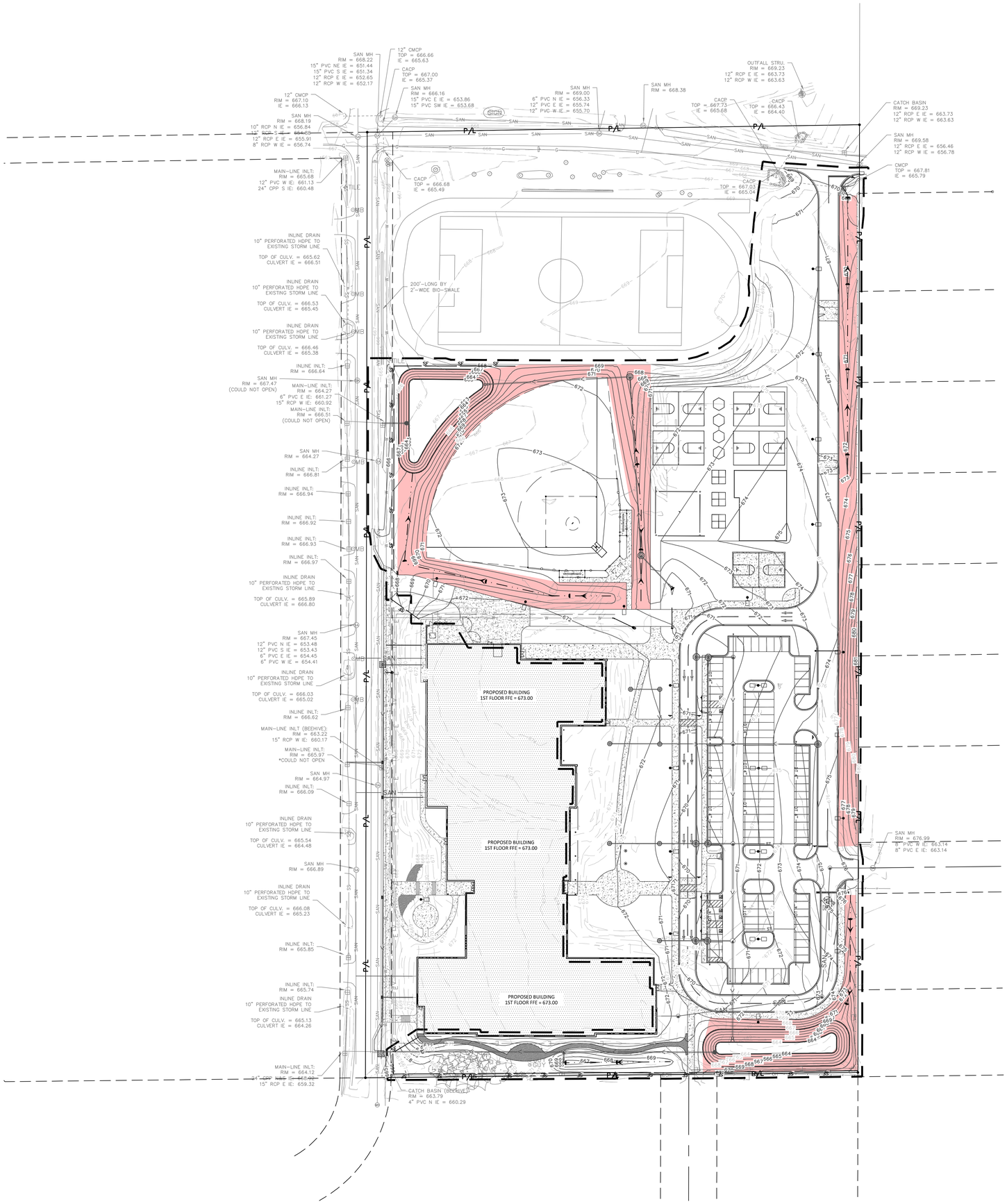

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POINTS OF CONTACT

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----- – PRESIDENT

---- STREET
-----, WI -----
PHONE: (-----) ----------

PROJECT ENGINEER:

THOMAS PEREZ, P.E.
KAPUR & ASSOCIATES, INC
7711 NORTH PORT WASHINGTON ROAD
MILWAUKEE, WI 53217
PHONE: (414) 351-6668

CONSTRUCTION MANAGER:

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

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denver 1899 Wynkoop Street, Suite 700 Denver, Colorado 80202 303.595.4500

PROJECT INFORMATION

BAYSIDE MIDDLE SCHOOL

601 E ELLSWORTH LN, BAYSIDE, WI 53217

ISSUANCE AND REVISIONS

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KEY PLAN

kapur

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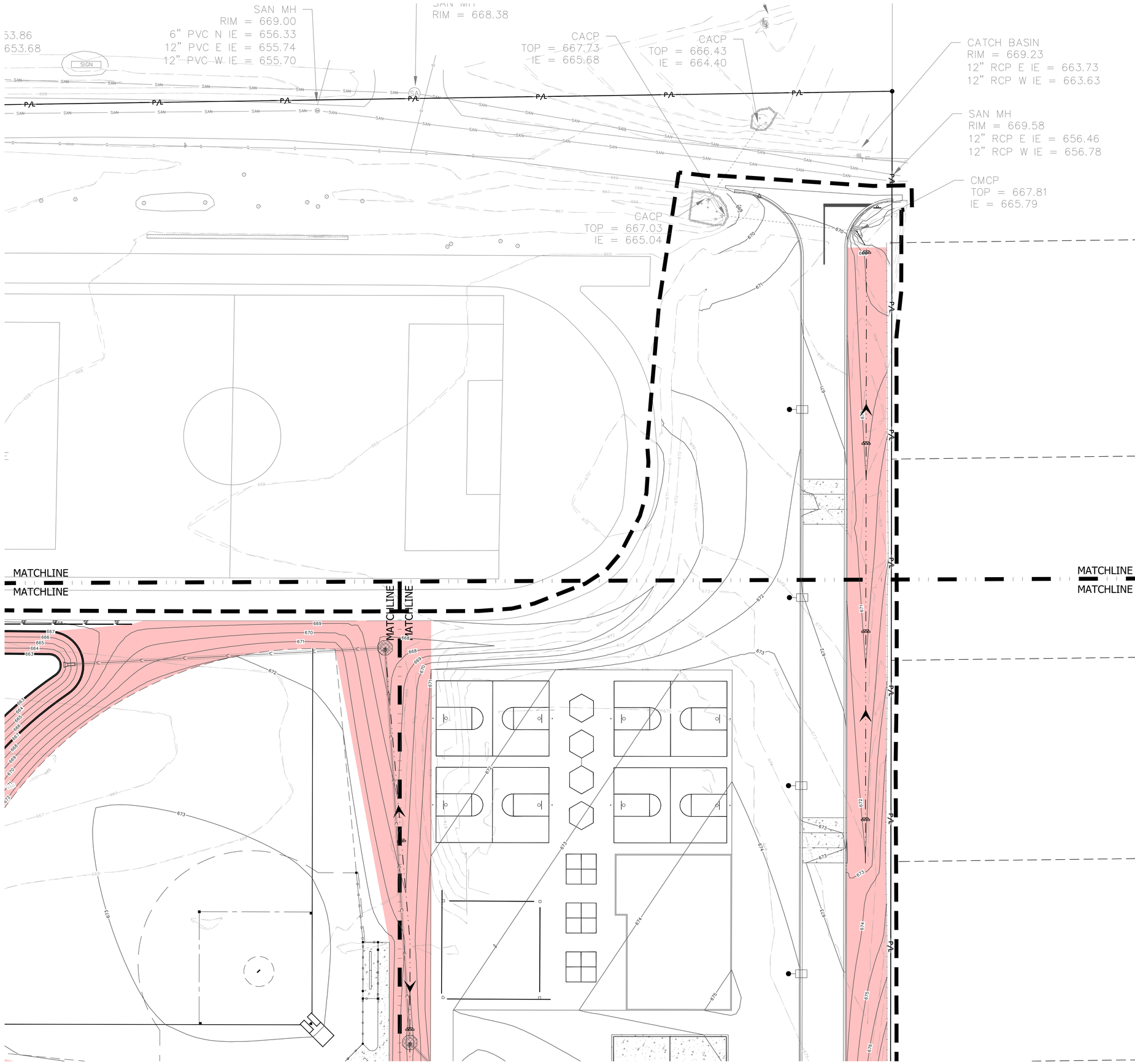
PROJECT MANAGER TS

PROJECT NUMBER 19314-02

OVERALL SITE EROSION CONTROL PLAN - PHASE 2

C106-2



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N

Scale: 0 10 20 40

Scale: 1" = 20'

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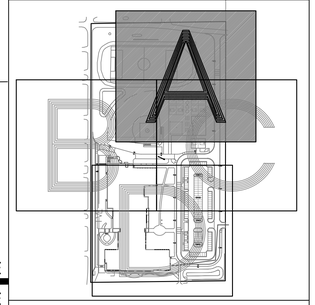
VICINITY MAP



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PROJECT INFORMATION

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601 E ELLSWORTH LN, BAYSIDE, WI 53217

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PROJECT MANAGER TS

PROJECT NUMBER 19314-02

SITE EROSION CONTROL PLAN - PHASE 2 - AREA A

C106-2A

RIM = 666.64

SAN MH
RIM = 667.47
(COULD NOT OPEN)

MAIN–LINE INLT:
RIM = 664.27
6" PVC E IE: 661.27
15" RCP W IE: 660.92

MAIN–LINE INLT:
RIM = 666.51
(COULD NOT OPEN)

SAN MH
RIM = 664.27

INLINE INLT:
RIM = 666.81

INLINE INLT:
RIM = 666.94

INLINE INLT:
RIM = 666.92

INLINE INLT:
RIM = 666.93

INLINE INLT:
RIM = 666.97

INLINE DRAIN
10" PERFORATED HDPE TO
EXISTING STORM LINE

TOP OF CULV. = 665.89
CULVERT IE = 666.80

SAN MH
RIM = 667.45
12" PVC N IE = 653.48
12" PVC S IE = 653.43
6" PVC E IE = 654.45
6" PVC W IE = 654.41

INLINE DRAIN
10" PERFORATED HDPE TO
EXISTING STORM LINE

TOP OF CULV. = 666.03
CULVERT IE = 665.02

INLINE INLT:
RIM = 666.62

MAIN–LINE INLT (BEEHIVE):
RIM = 663.22
15" RCP W IE: 660.17

MAIN–LINE INLT:
RIM = 665.97
*COULD NOT OPEN

SAN MH
RIM = 664.97

INLINE INLT:
RIM = 666.09

INLINE DRAIN
10" PERFORATED HDPE TO
EXISTING STORM LINE

TOP OF CULV. = 665.54
CULVERT IE = 664.48

PROPOSED BUILDING
1ST FLOOR FFE = 673.00

PROPOSED BUILDING

MATCHLINE
MATCHLINE

MATCHLINE
MATCHLINE

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

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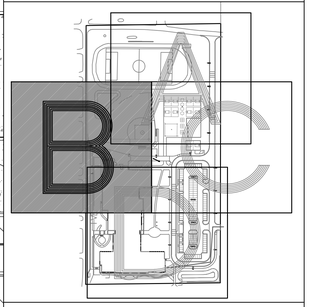
VICINITY MAP



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PROJECT INFORMATION

BAYSIDE MIDDLE SCHOOL

601 E ELLSWORTH LN, BAYSIDE, WI 53217

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PROJECT MANAGER TS

PROJECT NUMBER 19314-02

SITE EROSION CONTROL PLAN - PHASE 2 - AREA B

C106-2B

PROPOSED BUILDING
1ST FLOOR FFE = 673.00

PROPOSED BUILDING

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

SAN MH
RIM = 676.99
8" PVC W IE: 663.14

N

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

DIGGERS HOTLINE
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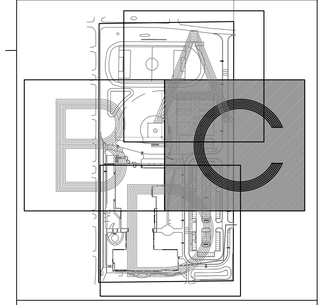
VICINITY MAP



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PROJECT INFORMATION

BAYSIDE MIDDLE SCHOOL

601 E ELLSWORTH LN, BAYSIDE, WI 53217

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PROJECT MANAGER TS

PROJECT NUMBER 19314-02

SITE EROSION CONTROL PLAN - PHASE 2 - AREA C

C106-2C

PROPOSED BUILDING
1ST FLOOR FFE = 673.00

PROPOSED BUILDING
1ST FLOOR FFE = 673.00

PROPOSED BUILDING
1ST FLOOR FFE = 673.00

MATCHLINE
MATCHLINE

MATCHLINE
MATCHLINE

CATCH BASIN (BEEHIVE)
RIM = 663.79
4" PVC N IE = 660.29

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

DIGGERS HOTLINE
Dial 811 or (800)242-8511
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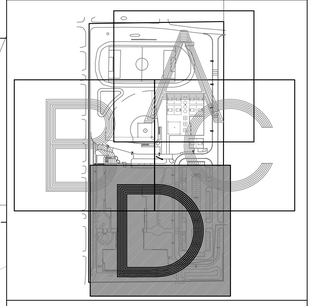
VICINITY MAP



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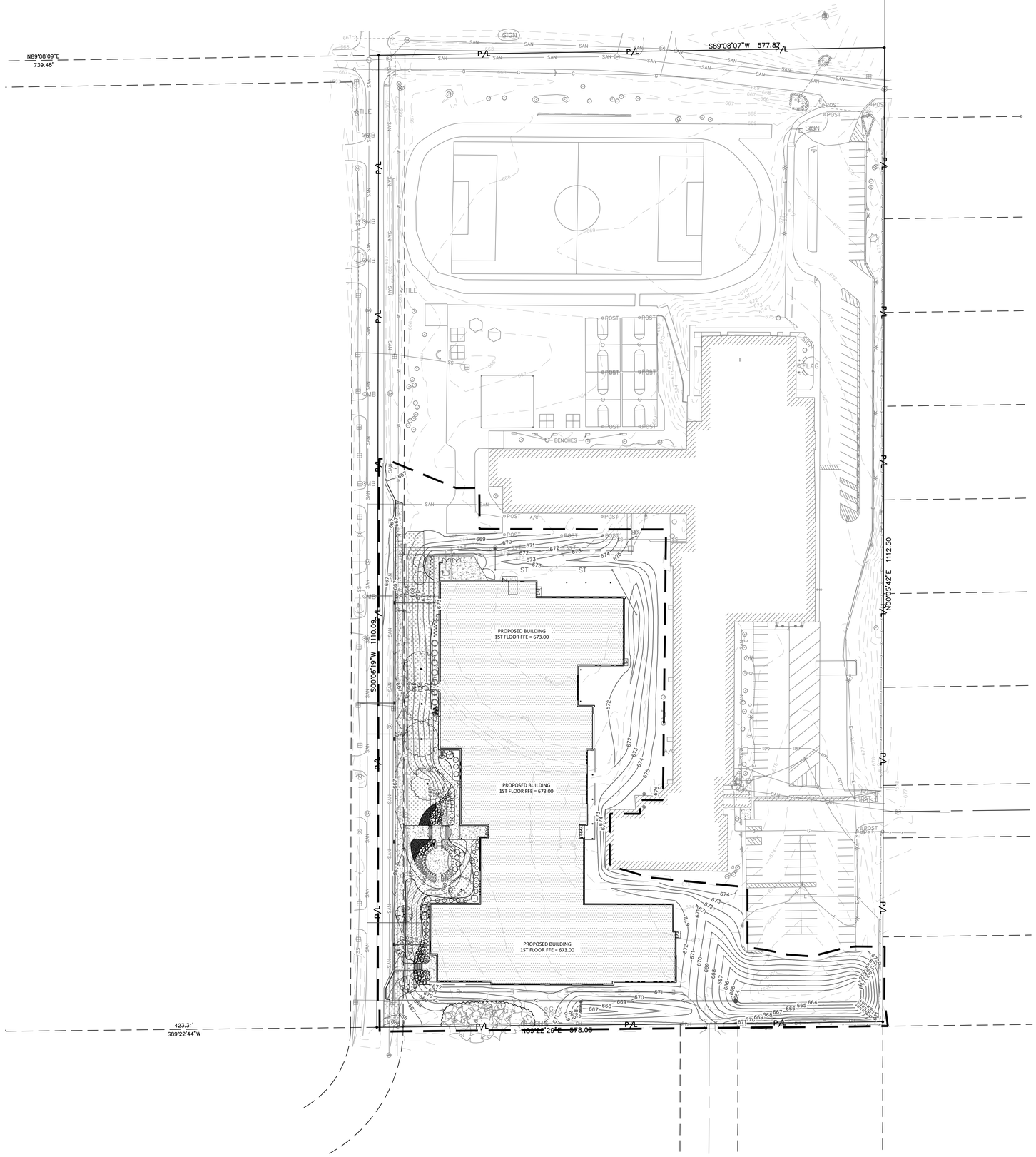
PROJECT MANAGER TS

PROJECT NUMBER 19314-02

SITE EROSION CONTROL PLAN - PHASE 2 - AREA D

C106-2D



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.
- 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. (13/L203, 15/L203)
- MIX 1: 3" PLUG PLANTINGS IN BIORETENTION AREA. REFER TO CIVIL AND LANDSCAPE DETAILS. PLUGS TO BE PLANTED 12-INCHES O.C. (1/L201)
- AREAS DISTURBED BY CONSTRUCTION TO BE RESTORED WITH MINIMUM 4" TOPSOIL, STORMWATER BIOINFILTRATION NATIVE SEED MIX, AND MULCH (TYP). USE SALVAGED TOPSOIL OR IMPORT TOPSOIL IF REQUIRED. (14/L203, 15/L203)
- KAFKA GRANITE STABILIZED PATHWAY MIX MANUFACTURER: KAFKA GRANITE COLOR: TO BE DETERMINED BY OWNER (OR APPROVED EQUAL) (9/L202)

N

Scale: 0 25 50 100

Scale: 1" = 50'

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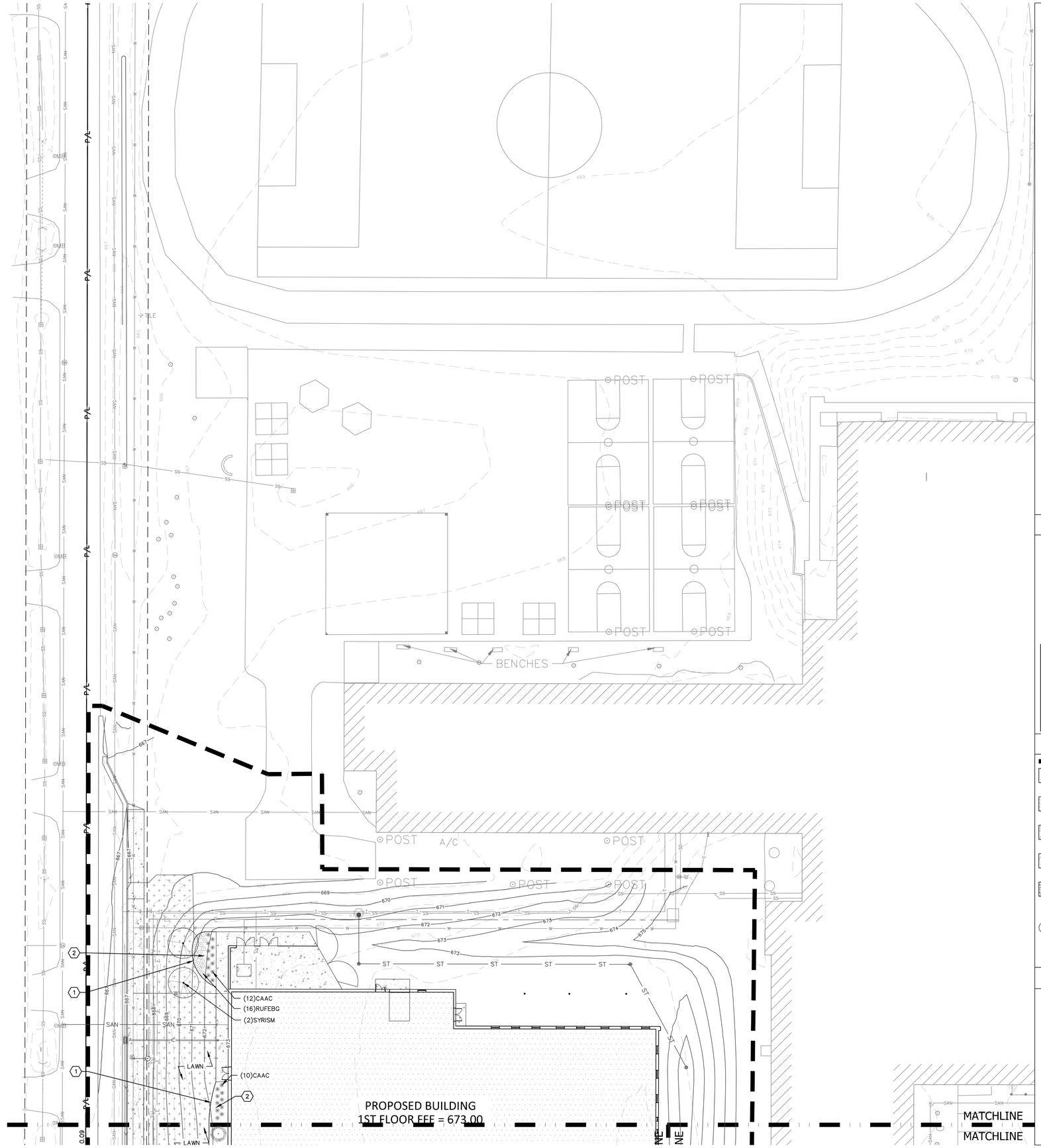
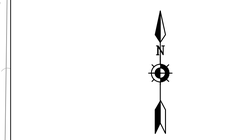
OVERALL SITE LANDSCAPE PLAN - PHASE 1

L101-1





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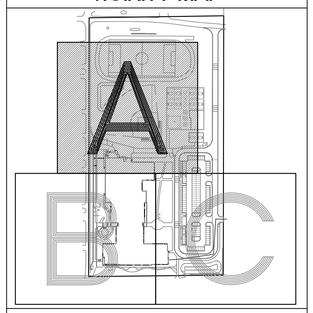
VICINITY MAP



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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(10)HEPM
1
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)	
5	STEEL EDGING AT KAFKA GRANITE STABILIZED GRANITE PATHWAY MIX & MULCH	10 L202
6	KAFKA GRANITE STABILIZED GRANITE PATHWAY MIX AT SIDEWALK	8 L202
7	STEEL EDGING AT KAFKA GRANITE STABILIZED GRANITE PATHWAY MIX & LAWN	13 L202

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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
01/16/2022	ARC SUBMISSION

KEY PLAN

kapur

7711 N. Port Washington Road
Milwaukee, Wisconsin 53217

kapurinc.com

SHEET INFORMATION

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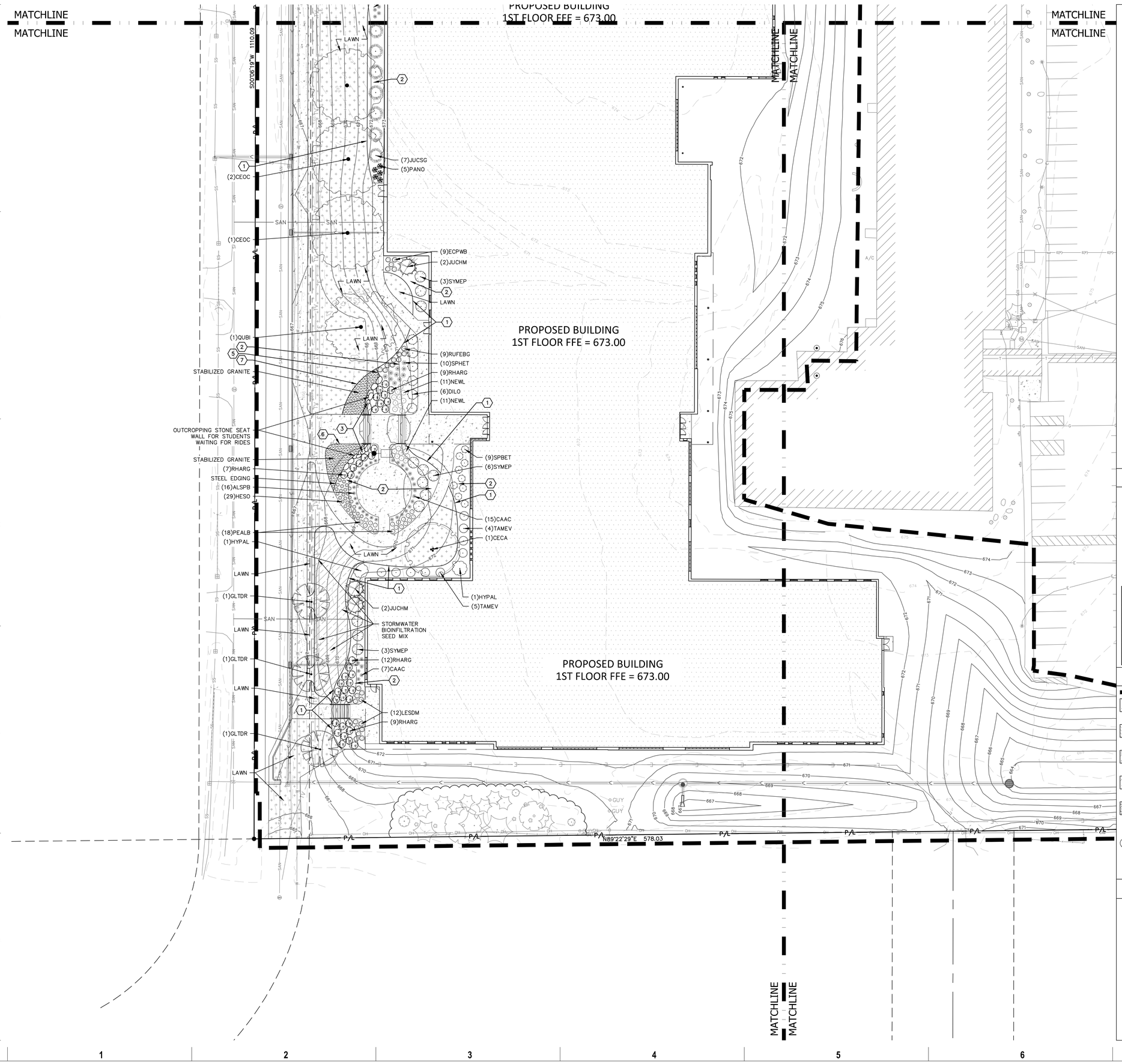
PROJECT MANAGER TS

PROJECT NUMBER 19314-02

SITE LANDSCAPE PLAN - PHASE 1 - AREA A

L101-1A



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Scale: 0 10 20 40
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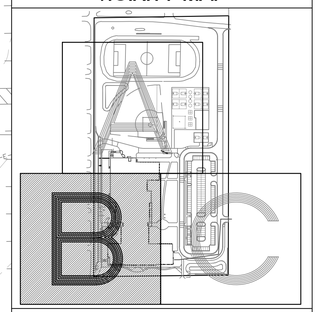
VICINITY MAP



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PROJECT INFORMATION

BAYSIDE MIDDLE SCHOOL

601 E ELLSWORTH LN, BAYSIDE, WI 53217

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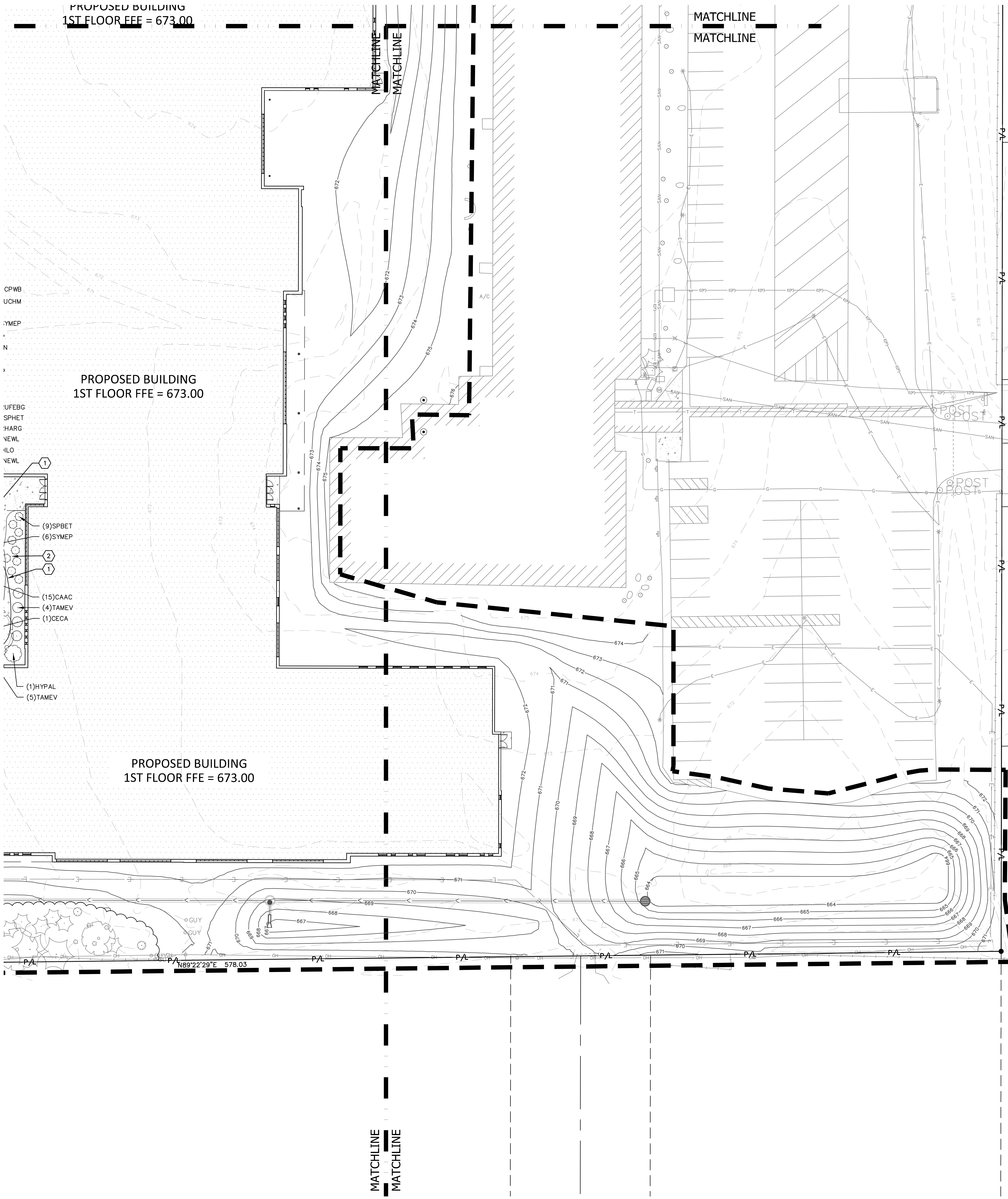
SITE LANDSCAPE PLAN - PHASE 1 - AREA B

L101-1B



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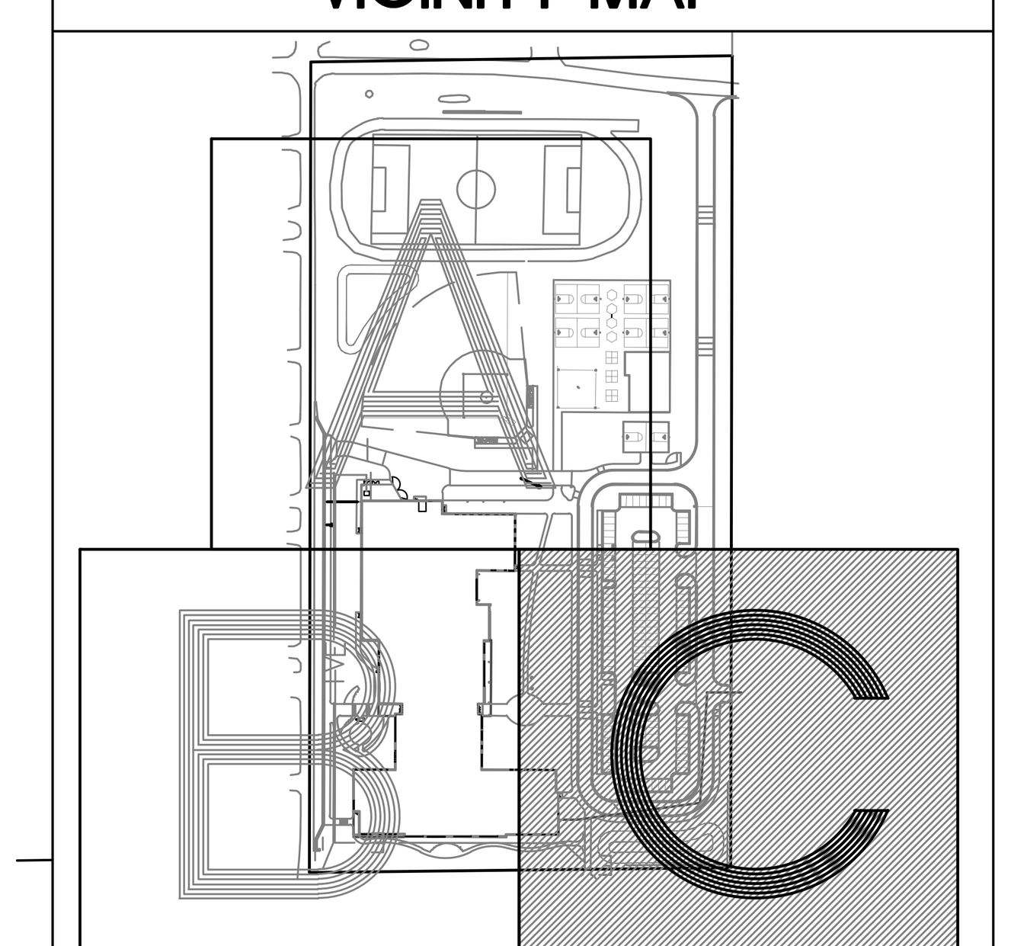

HATCH LEGEND

Hatch	Description	Detail
(dashed line)	PROJECT LIMITS	
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	KAFKA GRANITE STABILIZED PATHWAY MIX MANUFACTURER: KAFKA GRANITE COLOR: TO BE DETERMINED BY OWNER (OR APPROVED EQUAL)	9/L202

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

KEY INDEX

Key	Description	Detail
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)	
5	STEEL EDGING AT KAFKA GRANITE STABILIZED GRANITE PATHWAY MIX & MULCH	10/L202
6	KAFKA GRANITE STABILIZED GRANITE PATHWAY MIX AT SIDEWALK	8/L202
7	STEEL EDGING AT KAFKA GRANITE STABILIZED GRANITE PATHWAY MIX & LAWN	13/L202

eu:a

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PROJECT INFORMATION

BAYSIDE MIDDLE SCHOOL

601 E ELLSWORTH LN, BAYSIDE, WI 53217

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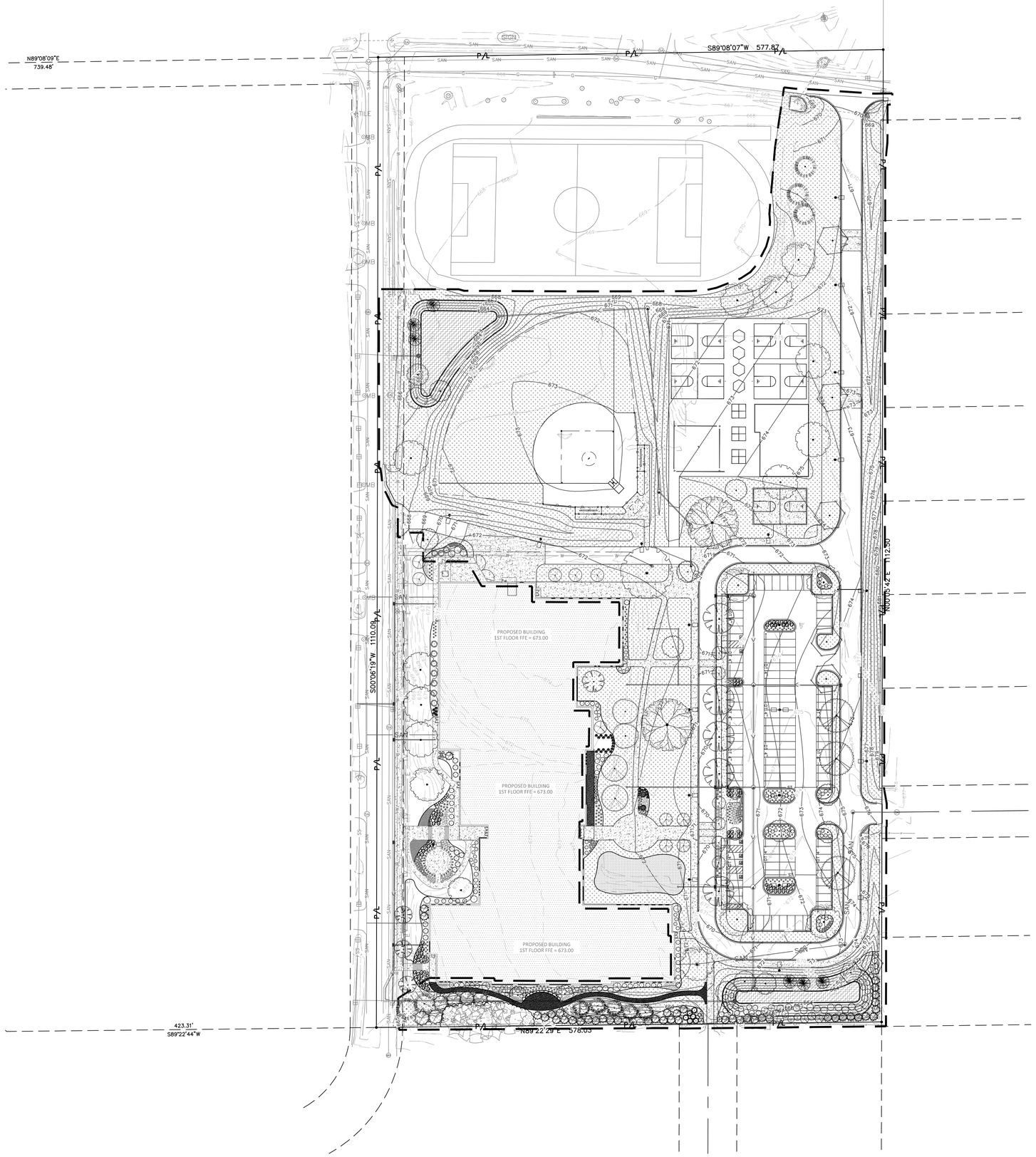
PROJECT MANAGER TS

PROJECT NUMBER 19314-02

SITE LANDSCAPE PLAN - PHASE 1 - AREA C

L101-1C



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N

Scale: 0 25 50 100

Scale: 1" = 50'

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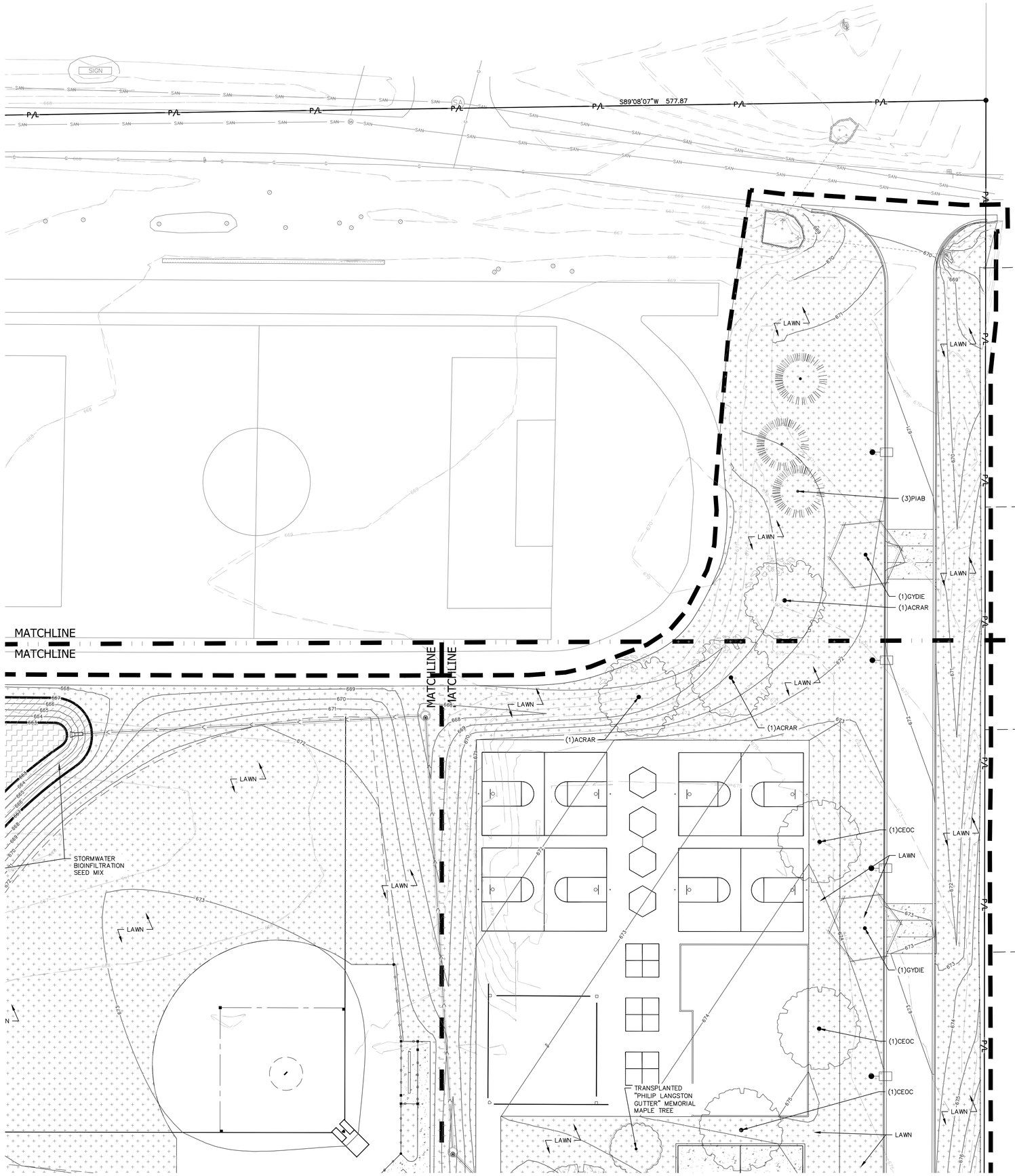
PROJECT MANAGER TS

PROJECT NUMBER 19314-02

OVERALL SITE LANDSCAPE PLAN - PHASE 2

L101-2



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PROJECT INFORMATION

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N

Scale: 0 10 20 40

Scale: 1" = 20'

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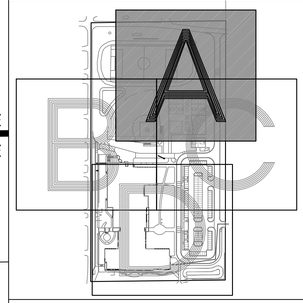

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KAFKA GRANITE STABILIZED PATHWAY MIX
MANUFACTURER: KAFKA GRANITE
COLOR: TO BE DETERMINED BY OWNER (OR APPROVED EQUAL) — 9/L202

(10)HEPM
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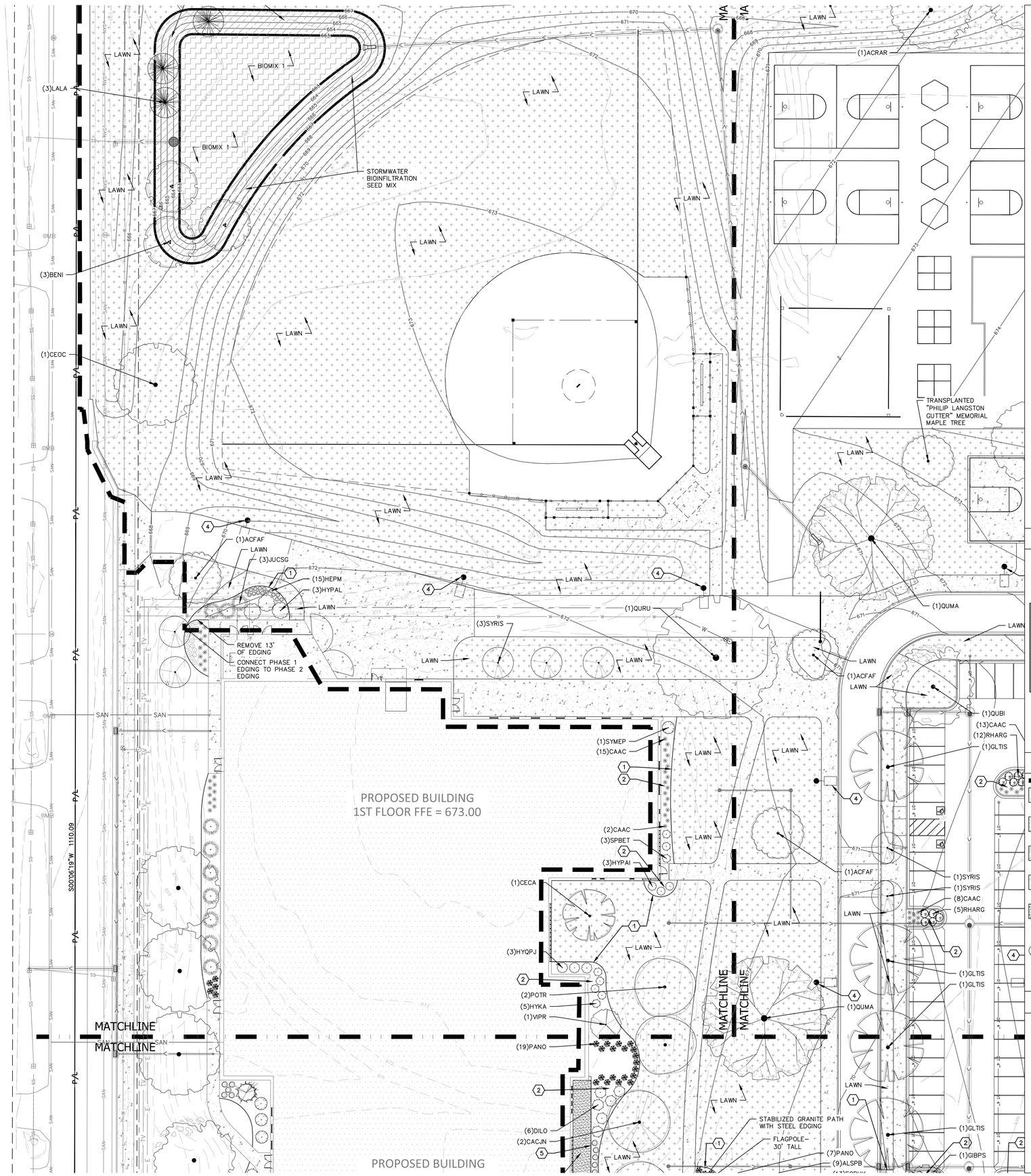
SITE LANDSCAPE PLAN - PHASE 2 - AREA A

L101-2A



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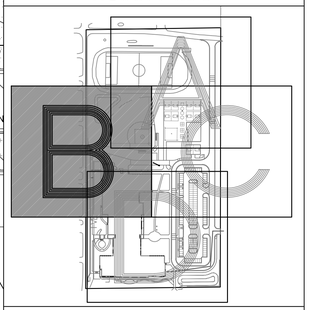

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Scale: 0 10 20 40
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PROJECT MANAGER TS
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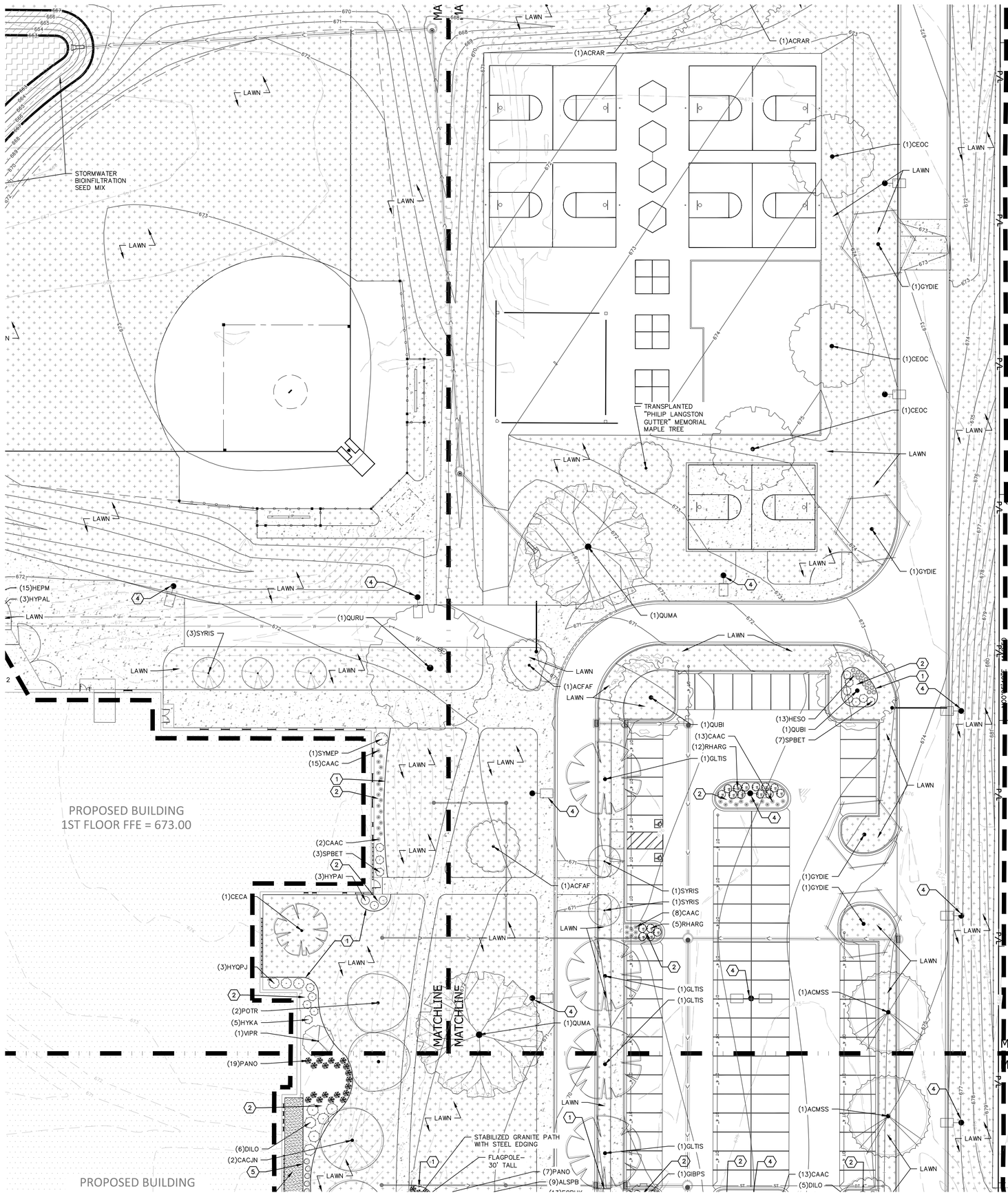
SITE LANDSCAPE PLAN - PHASE 2 - AREA B

L101-2B



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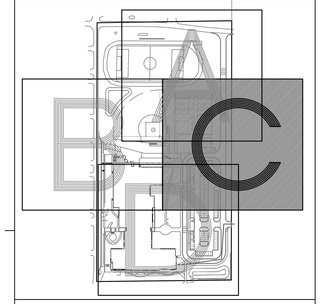

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5	STEEL EDGING AT KAFKA GRANITE STABILIZED GRANITE PATHWAY MIX & MULCH	10 L202
6	KAFKA GRANITE STABILIZED GRANITE PATHWAY MIX AT SIDEWALK	8 L202
7	STEEL EDGING AT KAFKA GRANITE STABILIZED GRANITE PATHWAY MIX & LAWN	13 L202

eua

milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 414.271.5350

madison 309 West Johnson Street, Suite 202 Madison, Wisconsin 53703 608.442.5350

denver 1899 Wynkoop Street, Suite 700 Denver, Colorado 80202 303.595.4500

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
01/16/2022	ARC SUBMISSION

KEY PLAN

kapur

7711 N. Port Washington Road
Milwaukee, Wisconsin 53217

kapurinc.com

SHEET INFORMATION

PROGRESS DOCUMENTS NOT FOR CONSTRUCTION

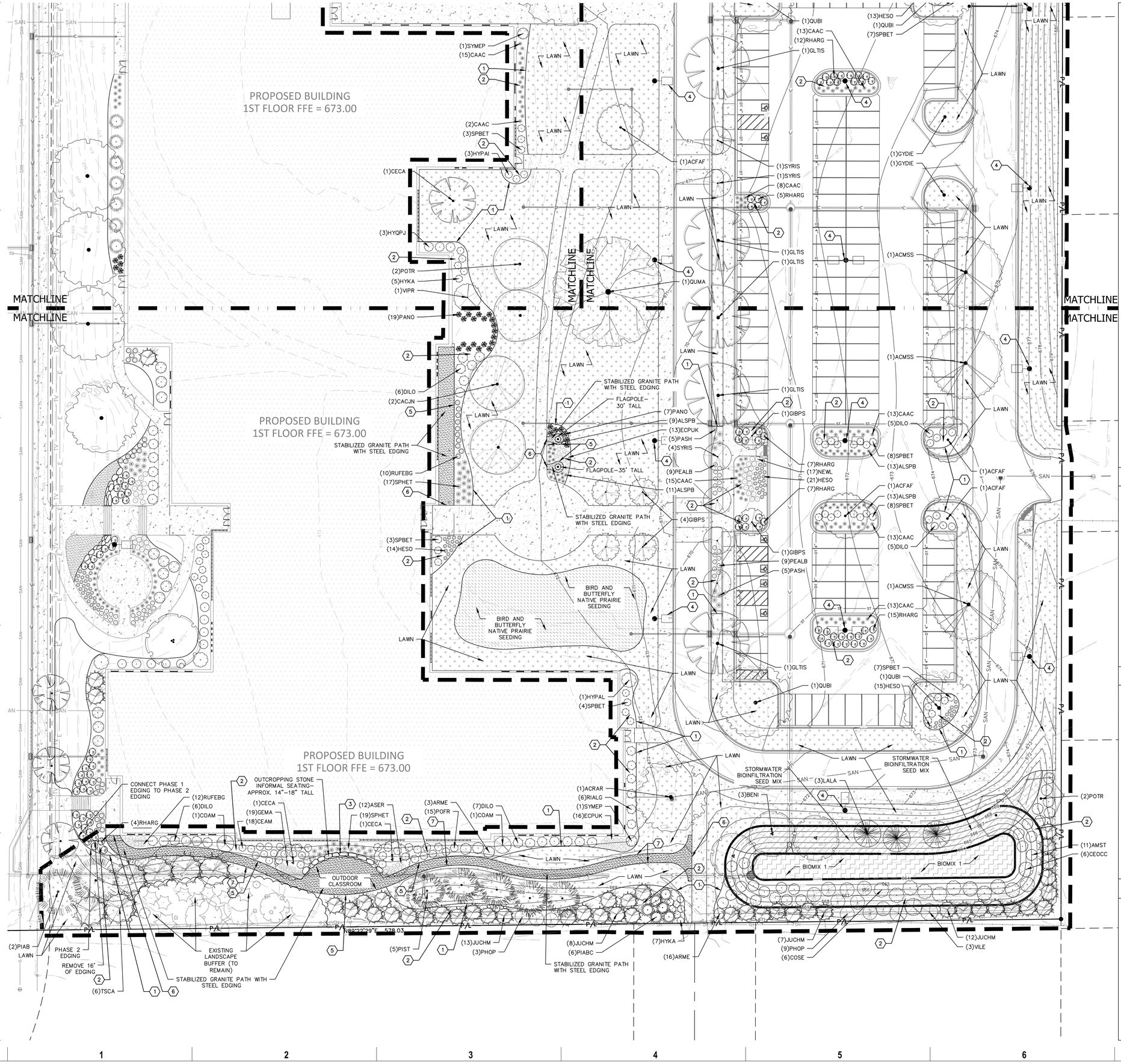
These documents reflect progress and intent and may be subject to change, including additional detail. These are not final construction documents and shall not be used for final bidding or construction-related purposes.

PROJECT MANAGER TS

PROJECT NUMBER 19314-02

SITE LANDSCAPE PLAN - PHASE 2 - AREA C

L101-2C



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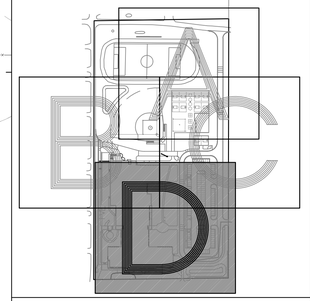
PROJECT INFORMATION

BAYSIDE MIDDLE SCHOOL

601 E ELLSWORTH LN, BAYSIDE, WI 53217

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

VICINITY MAP



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.
- 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. — 13 L203, 15 L203
- MIX 1: 3" PLUG PLANTINGS IN BIORETENTION AREA. REFER TO CIVIL AND LANDSCAPE DETAILS. PLUGS TO BE PLANTED 12–INCHES O.C. — 1 L201
- AREAS DISTURBED BY CONSTRUCTION TO BE RESTORED WITH MINIMUM 4" TOPSOIL, STORMWATER BIOINFILTRATION NATIVE SEED MIX, AND MULCH (TYP). USE SALVAGED TOPSOIL OR IMPORT TOPSOIL IF REQUIRED. — 14 L203, 15 L203
- KAFKA GRANITE STABILIZED PATHWAY MIX MANUFACTURER: KAFKA GRANITE COLOR: TO BE DETERMINED BY OWNER (OR APPROVED EQUAL) — 9 L202
- (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)	
5	STEEL EDGING AT KAFKA GRANITE STABILIZED GRANITE PATHWAY MIX & MULCH	10 L202
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KEY PLAN

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

SHEET INFORMATION

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PROJECT MANAGER TS

PROJECT NUMBER 19314-02

SITE LANDSCAPE PLAN - PHASE 2 - AREA D

L101-2D

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	6	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	4	Per Plan	3" caliper B&B	50'/40'
CEOC	Celtis occidentalis	Common Hackberry	3	3	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'
GLTDR	Gleditsia triacanthos 'Draves'	Street Keeper Honeylocust	3	n/a	Per Plan	2.5" caliper B&B	45'/20'
GLTIS	Gleditsia tricanthos 'Shademaster' PP1,515	Shademaster Honeylocust	n/a	5	Per Plan	2.5" caliper B&B	60'/35'
GYDIE	Gymnocladus dioicus 'Espresso'	Espresso Kentucky Coffee Tree	n/a	5	Per Plan	2.5" caliper B&B	50'/35'
POTR	Populus tremeloides	Quaking Aspen	n/a	5	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	6	Per Plan	8' multi-stem B&B	40'-70'/35'-50'
CACJN	Carpinus caroliniana 'J.N. Strain'	J.N. Strain Musclewood	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	9	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	6	Per Plan	6' tall B&B	30'-50'/10'-15'
PIAB	Picea aibes	Norway Spruce	n/a	5	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'
PIST	Pinus strobus	Eastern White Pine	n/a	5	Per Plan	6' tall B&B	50'-80'/20'-40'
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. 'Elata'	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	18	Per Plan	18" tall pot	2'-3'/2'-4'
CEOCC	Cephalanthus 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	6	29	Per Plan	18" tall pot	2'-3'/4'-5'
HYKA	Hypericum kalmianum	St. John's Wort	n/a	12	Per Plan	15" tall pot	2'-4'/2'-4'
HYPAI	Hydrangea paniculata 'ILVOBO' PP22,782	Bobo Hydrangea	n/a	3	Per Plan	18" tall pot	3'/3'-4'
HYPAL	Hydrangea paniculata 'Limelight'	Limelight Hydrangea	2	4	Per Plan	18" tall pot	6'-8'/6'-8'
HYQPJ	Hydrangea quercifolia 'PIIHG-I' PP25,319	Jetstream Oakleaf Hydrangea	n/a	3	Per Plan	18" tall pot	5'-6'/4'-5'
PHOP	Physocarpus opulifolius	Common Ninebark	n/a	12	Per Plan	36" tall pot	8'-10'/8'-10'
POFR	Potentilla fruticosa	Bush Cinquefoil	n/a	15	Per Plan	18" tall pot	3'-4'/2'-4'
RHARG	Rhus aromatica 'Gro-Low'	Gro-Low Sumac	47	50	Per Plan	18" spread pot	2'-3'/6'-8'
RIALG	Ribes alpinum 'Green Mound'	Green Mound Alpine Currant	n/a	6	Per Plan	18" tall pot	3'-5'/3'-5'
SPBET	Spirea betulifolia 'Tor'	Tor Birchleaf Spirea	9	40	Per Plan	18" tall pot	2'-3'/3'
SYMEP	Syringa meyeri 'Palibin'	Meyer Lilac (Dwarf Korean Lilac)	12	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'
VIPR	Viburnum prunifolium	Blackhaw Viburnum	n/a	1	Per Plan	36" tall B&B	10'-15'/12'-20'
Evergreen Shrubs: (Install according to detail 5/L201)							
JUCHM	Juniperus chinensis 'Mountbatten'	Mountbatten Chinese Juniper	4	40	Per Plan	6' tall B&B	15'/6'-8'
JUCSG	Juniperus chinensis 'Sea Green'	See Green Juniper	7	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	49	Per Plan	#1 cont.	8"-12"/18"-24"
ASER	Aster ericoides	Heath Aster	n/a	12	Per Plan	#1 cont.	18"-24"/12"-18"
CAAC	Calamagrostis x acutiflora Karl Foerster	Karl Foerster Reed Grass	44	92	Per Plan	#1 cont.	5'-6'/18"-24"
ECPUK	Echinacea purpurea 'Kim's Knee High'	Kim's Knee High Coneflower	n/a	29	Per Plan	#1 cont.	18"-24"/18"-24"
ECPWB	Echinacea purpurea 'PowWow Wild Berry'	PowWow Wild Berry Coneflower	9	n/a	Per Plan	#1 cont.	18"-24"/12"-16"
GEMA	Geranium maculatum	Wild Geranium	n/a	19	Per Plan	#1 cont.	18"-24"/12"-18"
HEPM	Hemerocallis 'Pardon Me'	Pardon Me Daylily	n/a	15	Per Plan	#1 cont.	12"-18"/16"-24"
HESO	Hemerocallis 'Stella De Oro'	Stella De Oro Daylily	29	63	Per Plan	#1 cont.	16"-18"/16"-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	22	17	Per Plan	#1 cont.	24"-36"/18"-36"
PANO	Panicum virgatum 'Northwinds'	Northwinds Switch Grass	5	31	Per Plan	#1 cont.	4'-5'/24"-30"
PASH	Panicum virgatum 'Shenandoah''	Shenandoah Switch Grass	n/a	5	Per Plan	#1 cont.	4'-5'/2'-3'
PEALB	Perovskia atriplicifolia 'Lacey Blue'	Lacey Blue Russian Sage	18	18	Per Plan	#1 cont.	18"-20"/24"-36"
RUFEBG	Rudbeckia fulgida 'Early Bird Gold'	F. Early Bird Gold Black-eyed Susan	25	22	Per Plan	#1 cont.	20"-24"/18"-24"
SPHET	Sporobolus heterolepis 'Tara'	Tara Prairie Dropseed	10	36	Per Plan	#1 cont.	18"-24"/18"-24"
Bio-mix:							
BIOMIX 1	Aster ericoides	Heath Aster	n/a	480	12" o.c.	3" plug	18"-24"/12"-18"
BIOMIX 1	Aster novae-angliae	New England Aster	n/a	480	12" o.c.	3" plug	48"-60"/18"-24"
BIOMIX 1	Baptisia leucantha	Wild White Indigo	n/a	480	12" o.c.	3" plug	24"-36"/18"-24"
BIOMIX 1	Eupatorium maculatum	Spotted Joe Pye Weed	n/a	480	12" o.c.	3" plug	60"-72"/24"-36"
BIOMIX 1	Liatris spicata	Marsh Blazing Star	n/a	480	12" o.c.	3" plug	36"-48"/12"-24"
BIOMIX 1	Monarda fistulosa	Wild Bergamot	n/a	480	12" o.c.	3" plug	36"-48"/24"-36"
BIOMIX 1	Rudbeckia hirta	Black-eyed Susan	n/a	480	12" o.c.	3" plug	36"-48"/12"-18"
BIOMIX 1	Solidago rugosa 'Fireworks'	Fireworks Goldenrod	n/a	480	12" o.c.	3" plug	42"-48"/18"-24"
BIOMIX 1	Tradescanta ohiensis	Spiderwort	n/a	480	12" o.c.	3" plug	24"-36"/12"-18"
BIOMIX 1	Ratibida pinnata	Yellow Coneflower	n/a	480	12" o.c.	3" plug	36"-48"/12"-18"
BIOMIX 1	Carex bebbi	Bebb's Sedge	n/a	550	12" o.c.	3" plug	12"-24"/8"-12"
BIOMIX 1	Bromus ciliatus	Fringed Brome Grass	n/a	480	12" o.c.	3" plug	20"-40"/12"-18"
BIOMIX 1	Panicum virgatum	Switch Grass	n/a	480	12" o.c.	3" plug	60"-108"/24"-36"
BIOMIX 1	Elymus canadensis	Canada Wild Rye	n/a	480	12" o.c.	3" plug	24"-48"/10"-12"
BIOMIX 1	Elymus virginius	Virginia Wild Rye	n/a	480	12" o.c.	3" plug	24"-48"/18"-24"
BIOMIX 1	Carex vulpinoidea	Fox Sedge	n/a	550	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

1. 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.

2. 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.

3. 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.

4. LANDSCAPE EDGING TO BE ALUMINUM EDGING. REFER TO SPECIFICATION 32 93 00 PLANTS FOR ADDITIONAL INFORMATION.

5. 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.

6. 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.

7. 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.

8. 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.

9. REMOVE BURLAP, WIRE BASKET, ROPE, TWINE, AND ALL SYNTHETIC MATERIAL FROM THE ROOTS, TRUNK, OR CROWN OF PLANT.

10. REMOVE EXCESS SOIL ABOVE ROOT COLLAR.

11. 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.

12. PLANT TREES AND SHRUBS WITH SAME ORIENTATION AS WHEN HARVESTED FROM THE NURSERY OR TO SHOWCASE THE MOST AESTHETIC VIEW.

13. PLANT ALL TREES WITH THREE SLOW RELEASE FERTILIZER PACKETS, SPACED EQUIDISTANT AROUND THE EDGE OF THE ROOT BALL.

14. PLANT ALL SHRUBS WITH ONE SLOW RELEASE FERTILIZER PACKET, PLACED BELOW THE ROOTING SYSTEM.

15. 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.

16. 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)

17. 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.

18. 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.

19. CROWN THE FINISH GRADE OF PARKING LOT LANDSCAPE ISLANDS TO SHED WATER TOWARDS CURB OR PAVEMENT.

20. NATIVE SEED MIX AT BIOINFILTRATION BASINS TO BE STORMWATER BIOINFILTRATION FOR WET MESIC TO MESIC 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.

21. NATIVE PRAIRIE SEED MIX BETWEEN BUILDING AND PARKING LOT TO BE SHORT GRASS PRAIRIE FOR MESIC 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.

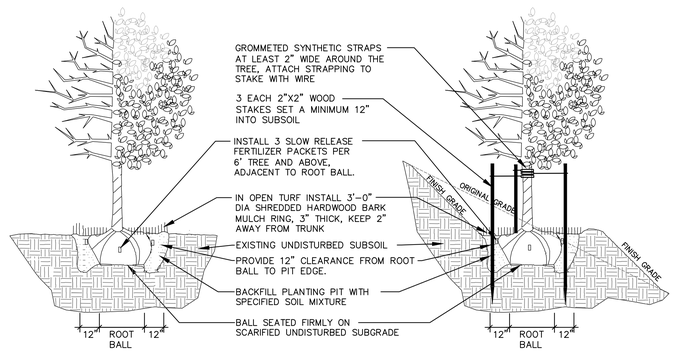
22. NO MOW TO BE NO MOW FESCUE SEED MIX WITH ANNUAL RYE NURSE CROP FROM PRAIRIE NURSERY, INC. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. PRAIRIE NURSERY ADDRESS: PO BOX 306 WESTFIELD, WI 53964. TELEPHONE: 1–800–476–9453 FAX: 608–296–2741.

23. 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.

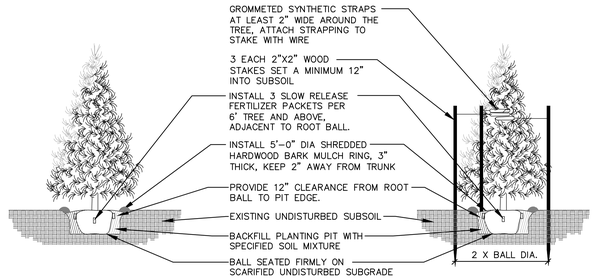
24. REMOVE ALL AGGREGATE BASE DOWN TO SUBGRADE IN AREAS TO BE CONVERTED FROM PAVING TO LAWN OR PLANTING BEDS. REPLACE WITH SUBGRADE MATERIAL. ALLOW FOR SPECIFIED THICKNESS OF TOPSOIL OR PLANTING SOIL

25. REFER TO SPECIFICATIONS 32 93 00 PLANTS AND 32 92 00 TURF AND GRASSES FOR ADDITIONAL INFORMATION.

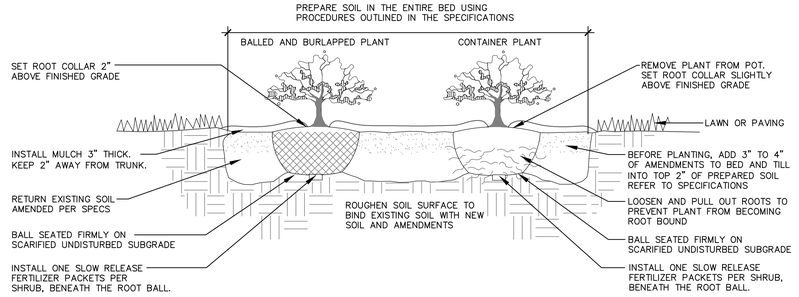
2 LANDSCAPE NOTES
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION



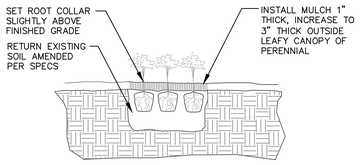
3 DECIDUOUS TREE PLANTING, STAKING, & PLANTING ON A SLOPE
N.T.S.



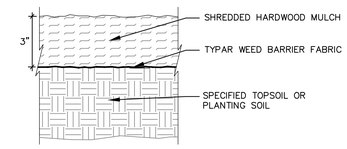
4 EVERGREEN TREE PLANTING & STAKING
N.T.S.



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



6 PERENNIAL PLANTING
N.T.S.



7 SHREDDED HARDWOOD MULCH SECTION
N.T.S.

eua

milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 414.271.5350

madison 309 West Johnson Street, Suite 202 Madison, Wisconsin 53703 608.442.5350

denver 1899 Wynkoop Street, Suite 700 Denver, Colorado 80202 303.595.4500

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
01/16/2022	ARC SUBMISSION

KEY PLAN

kapur

7711 N. Port Washington Road
Milwaukee, Wisconsin 53217

kapurinc.com

SHEET INFORMATION

PROGRESS DOCUMENTS NOT FOR CONSTRUCTION

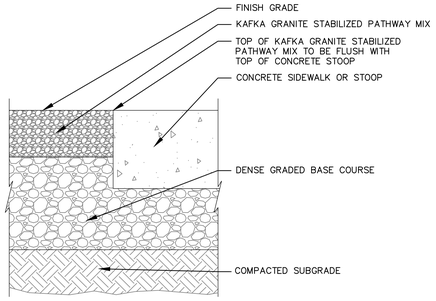
These documents reflect progress and intent and may be subject to change, including additional detail. These are not final construction documents and shall not be used for final bidding or construction-related purposes.

PROJECT MANAGER TS

PROJECT NUMBER 19314-02

SITE LANDSCAPE DETAILS

L201



8 KAFKA GRANITE STABILIZED PATHWAY MIX AT SIDEWALK SECTION
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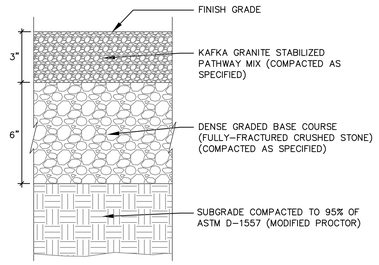

9 KAFKA GRANITE STABILIZED PATHWAY MIX PEDESTRIAN SECTION
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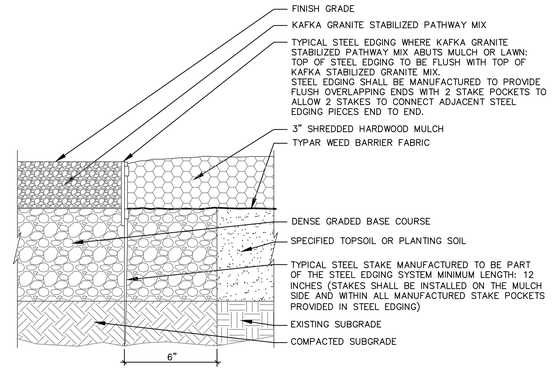
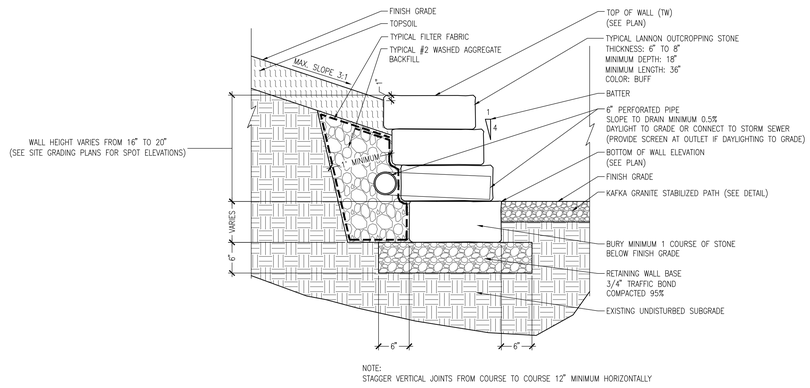


10 STEEL EDGING AT KAFKA GRANITE STABILIZED PATHWAY MIX & MULCH SECTION
N.T.S.



11 OUTCROPPING STONE RETAINING WALL SECTION
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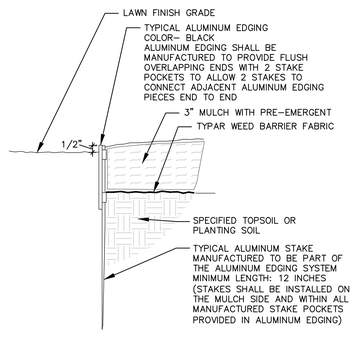
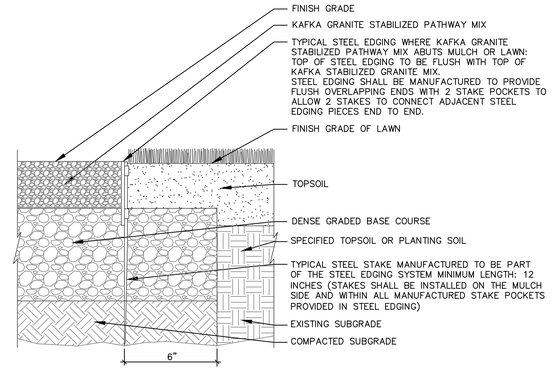


12 ALUMINUM EDGING AT PLANTING BED SECTION
N.T.S.



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.

1. 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.
2. 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.
3. 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.
4. NO ATTACHMENTS, FENCES OR WIRES, OTHER THAN THOSE APPROVED FOR BRACING, GUYING OR WRAPPING, SHALL BE ATTACHED TO TREES DURING THE CONSTRUCTION PERIOD.
5. 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..
6. 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.
7. CONSTRUCTION PRUNING AND ROOT PRUNING OF TREES DIRECTLY IMPACTED BY CONSTRUCTION MAY BE REQUIRED FOR PRESERVATION OF EXISTING TREES.

14 TREE PROTECTION NOTES

eua

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PROJECT MANAGER TS

PROJECT NUMBER 19314-02

SITE LANDSCAPE DETAILS

L202

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										
Bouteloua curtipendula	Side Oats Grama	32.00	Green	1-3'	July-Aug	Mesic-Dry	FP	12500	9.18	8.9%
Bromus kalmii	Prairie Brome	20.00	Green	1-3'	June-July	WM-DM	FP	10000	4.59	4.4%
Elymus canadensis	Canada Wild Rye	32.00	Green	3-5'	June-Oct	WM-Dry	FP	6000	4.41	4.3%
Koeleria cristata (macrantha)	June Grass	1.75	Green	1-2'	June-Sep	DM-Dry	FP	225000	9.04	8.7%
Schizachyrium scoparium	Little Bluestem	16.00	Green	2-3'	June-Aug	Mesic-Dry	FP	20000	7.35	7.1%
Sporobolus heterolepis	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										
Agastache foeniculum	Lavender Hyssop	0.50	Purple	2-4'	June-Sep	Mesic-DM	FP	100000	1.15	1.1%
Allium cernuum	Nodding Onion	2.00	Pink	1-2'	July-Aug	WM-DM	FP	8500	0.39	0.4%
Amorpha canescens	Leadplant	1.00	Purple	1-3'	June-Aug	Mesic-Dry	FP	24000	0.55	0.5%
Anemone canadensis	Meadow Anemone	3.00	White	1-2'	May-July	WM-Mesic	FP	8000	0.55	0.5%
Aquilegia canadensis	Wild Columbine	0.60	Red	1-3'	Apr-June	Mesic-Dry	FPS	45000	0.62	0.6%
Asclepias incarnata	Marsh (Red) Milkweed	1.50	Red	3-5'	June-Aug	Wet-Mesic	F	5500	0.19	0.2%
Asclepias syriaca	Common Milkweed	1.00	Lavender	2-4'	June-Aug	Mesic-Dry	FP	6300	0.14	0.1%
Asclepias tuberosa	Butterfly Weed	4.00	Orange	2-3'	June-Sep	Mesic-Dry	FP	4375	0.40	0.4%
Aster laevis	Smooth Blue Aster	1.00	Blue	3-5'	Aug-Oct	WM-DM	FP	55000	1.26	1.2%
Aster azureus	Sky Blue Aster	0.75	Blue	1-3'	Aug-Oct	Mesic-Dry	FP	82000	1.41	1.4%
Aster novae-angliae	New England Aster	0.75	Purple	4-5'	Sep-Oct	Wet-DM	FP	100000	1.72	1.7%
Astragalus canadensis	Canada Milk Vetch	3.00	Cream	1-3'	Aug-Oct	WM-DM	FP	15000	1.03	1.0%
Baptisia australis	Blue Wild Indigo	4.00	Blue	3-5'	May-July	WM-Mesic	FP	1500	0.14	0.1%
Chamaecrista fasciculata	Partridge Pea	8.00	Yellow	1-3'	June-Aug	Mesic-Dry	F	2700	0.50	0.5%
Coreopsis lanceolata	Lance-Leaf (Sand) Coreopsis	2.50	Yellow	1-3'	May-July	DM-Dry	F	24000	1.38	1.3%
Coreopsis palmata	Prairie Coreopsis	2.00	Yellow	1-2'	June-Aug	Mesic-Dry	FP	14000	0.64	0.6%
Dalea candida	White Prairie Clover	3.00	White	1-2'	June-Oct	Mesic-Dry	F	26000	1.79	1.7%
Dalea purpurea	Purple Prairie Clover	3.00	Purple	1-2'	June-Aug	Mesic-Dry	F	23000	1.58	1.5%
Echinacea pallida	Pale Purple Coneflower	6.00	Purple	3-5'	June-July	Mesic-Dry	FP	5500	0.76	0.7%
Echinacea purpurea	Purple Coneflower	4.00	Purple	3-4'	July-Aug	WM-DM	FP	7000	0.64	0.6%
Eryngium yuccifolium	Rattlesnake Master	3.00	White	3-4'	July-Aug	WM-DM	F	12000	0.83	0.8%
Eupatorium maculatum	Spotted Joe Pye Weed	0.50	Pink	4-6'	July-Sep	Wet-WM	FP	110000	1.26	1.2%
Helianthus grosseserratus	Sawtooth Sunflower	1.00	Yellow	4-8'	July-Oct	WM-DM	FP	15000	0.34	0.3%
Heliopsis helianthoides	Early Sunflower	8.00	Yellow	3-5'	June-Oct	WM-DM	FP	6500	1.19	1.2%
Pycnanthemum virginianum	Mountain Mint	0.50	White	1-3'	July-Sep	Wet-Mesic	FP	220000	2.53	2.4%
Liatris aspera	Rough Blazing Star	0.75	Purple	1-3'	Aug-Oct	Mesic-Dry	F	20000	0.34	0.3%
Liatris pycnostachya	Prairie Blazing Star	4.00	Purple	2-4'	July-Sep	Mesic-DM	FP	15000	1.38	1.3%
Lobelia cardinalis	Cardinal Flower	0.50	Red	3-5'	July-Sep	Wet-WM	FP	400000	4.59	4.4%
Lobelia siphilitica	Great Blue Lobelia	0.50	Blue	1-2'	July-Sep	Wet-Mesic	FP	500000	5.74	5.5%
Lupinus perennis	Wild Lupine	1.00	Blue	1-3'	May-June	DM-Dry	FP	1200	0.03	0.0%
Monarda fistulosa	Wild Bergamot	1.00	Lavender	2-4'	June-Aug	WM-Dry	FP	100000	2.30	2.2%
Penstemon digitalis	Foxglove Beard Tongue	0.75	White	1-3'	May-July	Mesic-DM	FPS	120000	2.07	2.0%
Physostegia virginiana	Obedient Plant	1.50	Blue	2-3'	July-Sep	Wet-Mesic	FP	17000	0.59	0.6%
Ratibida pinnata	Yellow Coneflower	2.50	Yellow	4-5'	July-Aug	Mesic-DM	FP	30000	1.72	1.7%
Rosa arkansana	Prairie Wild Rose	2.00	Pink	3-5'	June-Aug	WM-Dry	FP	2200	0.10	0.1%
Rudbeckia hirta	Black-Eyed Susan	3.00	Yellow	1-3'	June-Sep	WM-Dry	FP	130000	8.95	8.7%
Rudbeckia subtomentosa	Sweet Black-Eyed Susan	2.50	Yellow	4-5'	July-Sep	WM-DM	FP	65000	3.73	3.6%
Rudbeckia triloba	Brown-Eyed Susan	1.50	Yellow	3-5'	July-Oct	WM-DM	FP	30000	1.03	1.0%
Silphium laciniatum	Compass Plant	6.00	Yellow	4-9'	June-Sep	WM-Dry	FP	1000	0.14	0.1%
Solidago rigida	Stiff Goldenrod	1.00	Yellow	3-5'	July-Sep	WM-Dry	F	50000	1.15	1.1%
Solidago speciosa	Showy Goldenrod	0.75	Yellow	3-5'	July-Oct	Mesic-Dry	FP	95000	1.64	1.6%
Tradescantia ohiensis	Ohio Spiderwort	2.00	Blue	2-4'	May-July	WM-Dry	FP	8000	0.37	0.4%
Verbena stricta	Hoary Vervain	1.50	Purple	1-3'	July-Sep	DM-Dry	FP	30000	1.03	1.0%
Vernonia fasciculata	Ironweed	1.00	Purple	4-6'	July-Sep	WM-Mesic	FP	35000	0.80	0.8%
Veronicastrum virginicum	Culver's Root	0.15	White	3-5'	July-Aug	WM-DM	FP	800000	2.75	2.7%
Zizia aurea	Golden Alexanders	4.00	Yellow	2-4'	May-July	WM-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%**

Nurse Crop
Annual Rye
Spring Seeding: 1/8 lb per 1000 square feet
Fall Seeding: 1/3 lb per 1000 square feet
-or-
Seed Oats
Spring Seeding: 1-1/2 lb per 1000 square feet
Fall Seeding: 3 lb per 1000 square feet

Mulch the seeding with blown straw after native seed and nurse crop installation. Cover seeded areas with slopes equal to or greater than 4:1 with straw erosion mat that has a fabric with minimum 1/2-inch x 1/2-inch webbed openings. (See Erosion Control Plan) Install temporary wood stakes 6' on center with signage reading "Butterfly Garden - Please do not enter" around the perimeter of the native seeded area to delineate it from the lawn area so that it is not accidentally mowed along with the lawn during the establishment period.

13 BIRD AND BUTTERFLY NATIVE SEED MIX
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

Stormwater Bioinfiltration Seed Mix

Wet Mesic to Mesic
Full Sun
Seeding rate= 6.00 PLS LBS/Acre
139.00 Seeds/Square Foot

Seed Mix to be "Stormwater Bioinfiltration" 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
Wildflowers		
Alisma subcordatum	Mud Plantain	1.00
Asclepias incarnata	Marsh (Red) Milkweed	2.00
Aster novae-angliae	New England Aster	1.00
Cassia hebecarpa	Wild Senna	6.00
Eupatorium maculatum	Spotted Joe Pye Weed	0.50
Eupatorium perfoliatum	Boneset	0.50
Helianthus grosseserratus	Sawtooth Sunflower	0.75
Liatris spicata	Marsh Blazing Star	1.50
Mimulus ringens	Monkey Flower	0.15
Monarda fistulosa	Wild Bergamot	1.25
Parthenium integrifolium	Wild Quinine	2.00
Penthorum sedoides	Ditch Stonecrop	0.10
Pycnanthemum virginianum	Mountain Mint	0.50
Rudbeckia hirta	Black-Eyed Susan	2.00
Rudbeckia subtomentosa	Sweet Black-Eyed Susan	2.00
Silphium perfoliatum	Cup Plant	4.00
Solidago riddellii	Riddell's Goldenrod	1.00
Verbena hastata	Blue Vervain	2.00
Vernonia fasciculata	Ironweed	1.50
Grasses, Sedges & Rushes		
Carex grayi	Common Bur Sedge	4.00
Carex lupulina	Common Hop Sedge	2.00
Carex vulpinoidea	Brown Fox Sedge	1.00
Elymus virginicus	Virginia Wild Rye	32.00
Glyceria striata	Fowl Manna Grass	2.00
Juncus dudleyi	Dudley's Rush	0.50
Leersia oryzoides	Rice Cut Grass	8.00
Panicum virgatum	Switchgrass	4.00
Poa palustris	Fowl Bluegrass	6.00
Scirpus atrovirens	Dark-Green Bulrush	0.50
Scirpus cyperinus	Wool Grass	0.25
Scirpus validus	Great Bulrush	2.00
Spartina pectinata	Prairie Cordgrass	4.00

Nurse Crop
Annual Rye
Spring Seeding: 1/8 lb per 1000 square feet
Fall Seeding: 1/3 lb per 1000 square feet
-or-
Seed Oats
Spring Seeding: 1-1/2 lb per 1000 square feet
Fall Seeding: 3 lb per 1000 square feet

Mulch the seeding with blown straw after native seed and nurse crop installation. Cover seeded areas with slopes equal to or greater than 4:1 with straw erosion mat that has a fabric with minimum 1/2-inch x 1/2-inch webbed openings. (See Erosion Control Plan)

14 STORMWATER BIOINFILTRATION SEED MIX
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

NATIVE PRAIRIE PLANTING BED PREPARATION

I. SITE PREPARATION METHODS

TO PREPARE YOUR SITE FOR PLANTING, FIRST REMOVE THE EXISTING VEGETATION. THIS MAY CONSIST OF PERENNIAL WEEDS, ANNUAL WEEDS, OR BOTH. EXISTING WEEDS WILL COMPETE WITH PRAIRIE SEEDS FOR NUTRIENTS, MOISTURE, AND SUNLIGHT. ALTHOUGH IT IS NEARLY IMPOSSIBLE TO REMOVE ALL ANNUAL WEED SEEDS FROM THE SEEDBANK STORED IN THE SOIL, IT IS CRUCIAL TO KILL AND/OR REMOVE PERENNIAL WEEDS AND RHIZOMES BEFORE PLANTING. PERENNIAL WEEDS SUCH AS QUACKGRASS, BROMEGRASS, CANADA THISTLE, CANADA GOLDENROD AND RED CLOVER CAN INHIBIT THE GROWTH AND DEVELOPMENT OF YOUR PRAIRIE. ELIMINATING ALL PERENNIAL WEEDS PRIOR TO SEEDING IS ESSENTIAL TO SUCCESS WITH THE PRAIRIE.

SITE PREPARATION OPTIONS VARY ACCORDING TO THE VEGETATION TYPE THAT WILL BE CONVERTED TO A PRAIRIE PLANTING:

A. OLD FIELDS– FIELDS THAT HAVE BEEN ABANDONED AND ALLOWED TO GROW UP INTO GRASSES AND WEEDS REQUIRE AT LEAST ONE FULL YEAR FOR PROPER SITE PREPARATION. TWO YEARS OF WEED CONTROL IS EVEN BETTER, DUE TO THE PRESENCE OF ESTABLISHED PERENNIAL WEEDS AND WEED SEEDS IN THE SOIL. DO NOT RUSH SITE PREPARATION IN OLD FIELDS. KILL ALL THE WEEDS FIRST!

1. HERBICIDING
   - A) MOW AND RAKE OR BURN THE EXISTING VEGETATION TO THE GROUND IN LATE FALL OR EARLY SPRING.
   - B) APPLY A GLYPHOSPHATE HERBICIDE (SUCH AS "ROUNDUP") THREE TIMES THROUGHOUT THE GROWING SEASON AT 6–8 WEEK INTERVALS WHEN PLANTS ARE GREEN AND ACTIVELY GROWING. (MID–SPRING, MID–SUMMER, EARLY FALL). DO NOT SPRAY WHEN WINDS EXCEED 10 MILES PER HOUR TO PREVENT OVERSPRAY INTO AREAS TO BE PROTECTED.
   - C) IF PERENNIAL WEEDS ARE STILL PRESENT ON THE SITE AFTER A FULL YEAR OF HERBICIDING, DO NOT SEED. LEAVE THE SOIL UNDISTURBED OVER WINTER, AND APPLY ONE MORE HERBICIDE TREATMENT IN LATE SPRING OF THE FOLLOWING YEAR TO KILL ANY REMAINING WEEDS. IF IN DOUBT, WAIT, SPRAY FOR A SECOND YEAR, AND SEED IN THE FALL.
   - D) WHEN ALL THE VEGETATION IS DEAD, WORK THE GROUND TO CREATE A PREPARED SEED BED. PLANT SEED ACCORDING TO DIRECTIONS IN SECTION IV.
   - E) IF PLANTING IN FALL, THE SEED CAN BE SCATTERED INTO THE DEAD VEGETATION WITHOUT TILLING SO LONG AS EXPOSED SOIL IS VISIBLE BELOW THE VEGETATION. THE SEED WILL WORK ITS WAY DOWN INTO THE SOIL OVER WINTER, AND GERMINATE THE FOLLOWING SPRING. THIS IS A "DORMANT" SEEDING. FALL DORMANT SEEDINGS TYPICALLY RESULTS IN HIGHER GERMINATION OF WILDFLOWER SEEDS, BUT LOWER GERMINATION OF WARM SEASON PRAIRIE GRASSES. SPRING SEEDINGS RESULT IN HIGHER GERMINATION OF WARM SEASON PRAIRIE GRASSES, AND SOMEWHAT LOWER GERMINATION OF CERTAIN WILDFLOWER SEEDS.
2. CULTIVATING
   - A) MOW AND RAKE, OR BURN OFF THE EXISTING VEGETATION TO THE GROUND IN LATE FALL OR EARLY SPRING.
   - B) CULTIVATE TO A DEPTH OF FOUR TO FIVE INCHES EVERY TWO TO THREE WEEKS FROM SPRING THROUGH FALL.
   - C) BEFORE PLANTING, MAKE SURE ALL THE EXISTING WEEDS HAVE BEEN KILLED. THIS PROCEDURE MAY REQUIRE TWO CONSECUTIVE YEARS OF CULTIVATING TO KILL PERNICIOUS, NOXIOUS WEEDS.
   - D) PLANT IN FALL OR THE FOLLOWING SPRING INTO A PREPARED BED.

II. FINAL SEED AND PLANT BED PREPARATION

JUST PRIOR TO PLANTING, PREPARE THE SOIL ACCORDING TO THE TYPE OF PLANTING METHOD USED.

A. SEEDING BY HAND BROADCASTING, OR MECHANICALLY USING A BRILLION DROP SEEDER OR SIMILAR IMPLEMENT REQUIRES A WELL–TILLED, FINELY GRADED SURFACE. A BRILLION SEEDER IS EXCELLENT FOR SEEDING ONTO TILLED UP SOILS ON AREAS OF ONE HALF ACRE OR LARGER. ITS HEAVY CAST IRON PACKING WHEELS ENSURE FIRM SEED TO SOIL CONTACT.

B. NO–TILL DRILLS OR SLIT SEEDERS (TYE, TRUAX, ETC) REQUIRES A SMOOTH, LEVEL SOIL SURFACE, BUT LITTLE OR NO TILLING. TILLING WILL ONLY EXPOSE MORE WEEDS FROM THE SOIL BELOW, AND IS NOT RECOMMENDED WHEN USING NO–TILL DRILLS AND SLIT–SEEDERS.

A FINAL PRE–PLANTING TIP
IF PLANTING IN LATE SPRING OR EARLY SUMMER, APPLY ROUND–UP TO THE SITE WHEN NEWLY–SPROUTED WEEDS ARE TWO TO THREE INCHES TALL TO REDUCE WEED DENSITIES. WAIT 7 DAYS AFTER SPRAYING, TILL THE SOIL VERY LIGHTLY, LESS THAN ONE INCH IN DEPTH IF POSSIBLE (TILLING DEEPER WILL ONLY BRING UP MORE WEED SEEDS). PLANT IMMEDIATELY. IF YOU PREFER TO AVOID USING HERBICIDES, WAIT FOR A GOOD SPRING RAIN AFTER THE SITE IS FINE–GRADED. THIS WILL STIMULATE WEED SEEDS TO GERMINATE. FIVE TO SEVEN DAYS AFTER THE RAIN, TILL THE SOIL VERY LIGHTLY, NO MORE THAN ONE INCH IN DEPTH. A FIELD DRAG WORKS ADMIRABLY FOR THIS JOB. THIS WILL KILL THE NEWLY GERMINATED WEEDS BEFORE THEY EMERGE FROM THE GROUND. DO THE DRAGGING OR TILLING IN MID–MORNING OF A WARM SUNNY DAY, SO THAT THE WEED SEEDLINGS WILL BE KILLED BY HEAT. PLANT IMMEDIATELY.

PLANTING THE NATIVE PRAIRIE

III. SEED PRE–TREATMENT OPTIONS

SEED SHALL BE "DRY STRATIFIED" PRIOR TO SHIPPING TO HELP BREAK SEED DORMANCY. SOME WILDFLOWER SEEDS GERMINATE BEST WHEN SEEDED IN FALL IN A DORMANT SEEDING. THE EXPOSURE TO COLD, DAMP CONDITIONS SIGNALS TO THE SEED THAT WINTER HAS OCCURRED, AND THAT IT WILL BE SAFE TO GERMINATE WHEN THE SOIL WARMS UP IN SPRING. SOME WILDFLOWERS BENEFIT GREATLY FROM A PROCESS CALLED "DAMP STRATIFICATION," WHICH MIMICS THE EFFECTS OF WINTER ON THE SEED. THESE PROCEDURES ARE OUTLINED BELOW.

A. BREAKING SEED DORMANCY
1. DRY STRATIFICATION SEED IS EXPOSED TO COLD TEMPERATURES FOR ONE MONTH OR LONGER. ALL PRAIRIE NURSERY SEED IS DRY STRATIFIED, UNLESS PURCHASED PRIOR TO MID–JANUARY.
2. DAMP STRATIFICATION SEED IS MIXED WITH MOISTENED INERT MATERIAL AND STORED COLD FOR TEN DAYS TO THREE MONTHS. MANY PRAIRIE WILDFLOWER SEEDS SHOW IMPROVED GERMINATION WITH DAMP STRATIFICATION, WHILE PRAIRIE GRASSES GENERALLY EXHIBIT LITTLE OR NO INCREASE IN GERMINATION.

TO DAMP STRATIFY YOUR SEEDS–
IN A PLASTIC BAG OR RE–SEALABLE CONTAINER, MIX SEED WITH AN EQUAL VOLUME OF MOIST (NOT WET) SAWDUST OR CLEAN BUILDER'S SAND (IF MOISTURE CAN BE SQUEEZED OUT OF THE SAWDUST OR SAND, IT IS TOO WET). REFRIGERATE AT 34–38 DEGREES F (DO NOT FREEZE!). MOST FLOWER SEEDS REQUIRE THREE TO FOUR WEEKS OF TREATMENT. LEGUME SEEDS GENERALLY ONLY REQUIRE TEN TO FIFTEEN DAYS. SOME FLOWERS REQUIRE TWO TO THREE MONTHS.

NOTE– WHEN PLANTING MOIST STRATIFIED SEED, IT IS IMPORTANT NOT TO LET IT DRY OUT AFTER PLANTING. THE GERMINATION PROCESS IS INITIATED BY DAMP STRATIFICATION. FOR BEST RESULTS, THE SOIL SHOULD BE KEPT MOIST FOR THE FIRST FEW WEEKS AFTER PLANTING.

IV. PLANTING YOUR SEED

A. WHEN TO PLANT
1. FALL– (SEPT. 1 UP TO SOIL FREEZE–UP)
   ADVANTAGES–
   1) SEED OVER WINTERS AS IT WOULD IN NATURE AND COMES UP IN SPRING ON ITS OWN SCHEDULE WHEN CONDITIONS ARE RIGHT. THIS BREAKS MOST SEED DORMANCIES NATURALLY OVER WINTER.
   2) IN GENERAL, FLOWER SPECIES EXHIBIT INCREASED SPRING GERMINATION WITH FALL SEEDING.
   3) RECOMMENDED FOR DROUGHTY, SANDY SOILS BECAUSE SEED GERMINATES EARLIER IN THE SEASON, WHEN MOISTURE LEVELS ARE OPTIMAL, AND BEFORE SUMMER HEAT.
   4) RECOMMENDED FOR CLAY SOILS, AS CLAY IS EASIER TO WORK IN THE FALL THAN IN SPRING, AND SEEDS WILL GERMINATE EARLIER IN THE SEASON. CLAY SOILS OFTEN REMAIN WET WELL INTO THE SPRING, AND BY THE TIME THEY CAN BE SAFELY WORKED, THE HEAT AND DROUGHT OF SUMMER ARE OFTEN RIGHT AROUND THE CORNER. FALL SEEDING ON CLAY SOILS ENCOURAGES EARLIER GERMINATION AND BETTER ROOT DEVELOPMENT PRIOR TO THE ONSET OF SUMMER.

   DISADVANTAGES–
   1) WARM SEASON GRASS SEED TYPICALLY EXHIBITS REDUCED GERMINATION.
   2) THERE IS NO OPPORTUNITY FOR EARLY SPRING WEED CONTROL BY CULTIVATION OR HERBICIDING.
   3) BE CAREFUL ON EROSION–PRONE SITES. PLANT FALL SEEDINGS NO LATER THAN SEPTEMBER, WITH AN ANNUAL RYE OR OATS NURSE CROP TO HELP HOLD THE SOIL OVER THE FALL AND WINTER.
2. EARLY SPRING– (MARCH–APRIL)
   ADVANTAGES–
   1) IN GENERAL, RESULTS IN BETTER FLOWER GERMINATION THAN PLANTING IN LATE SPRING.
   2) WATERING IS GENERALLY NOT AS CRITICAL, AS SPRING RAINS FULFILL THIS NEED.
   3) WARM SEASON GRASS SEED GENERALLY HAS BETTER GERMINATION THAN IN FALL
   4) BEST OPTION FOR SANDY SOILS IF UNABLE TO PLANT IN FALL.

   DISADVANTAGES–
   1) LIMITED OPPORTUNITY FOR EARLY, COOL SEASON WEED CONTROL.
   2) NOT RECOMMENDED FOR HEAVY SOILS, AS IT IS DIFFICULT TO WORK THESE SOILS IF WET IN SPRING.
3. LATE SPRING– (MAY TO JUNE)
   ADVANTAGES–
   1) MORE TIME FOR GOOD SOIL PREPARATION – PARTICULARLY IMPORTANT ON HEAVY SOILS.
   2) MORE TIME FOR SPRING WEED CONTROL PRIOR TO SEEDING.
   3) OPTIMAL PLANTING TIME FOR WARM SEASON GRASSES.

   DISADVANTAGES–
   1) INCREASED CHANCE FOR LOW MOISTURE CONDITIONS LATER IN THE SEASON.
   2) REDUCED GERMINATION OF SOME FLOWER SPECIES.
4. DORMANT OVERSEEDING FOR AREAS OF ALREADY ESTABLISHED PRAIRIE TO ADD SPECIES OR FILL VOIDS– SOIL TEMPERATURE BELOW 55 DEGREES FAHRENHEIT PREFERABLY BEFORE SNOW COVER (TYPICALLY LATE NOVEMBER TO DECEMBER)

B. PLANTING METHODS
1. HAND BROADCASTING SEED
   - A) START WITH A FRESHLY–TILLED SEED BED FREE OF ROCKS OR SOIL CLUMPS GREATER THAN TWO INCHES IN DIAMETER.
   - B) MIX ALL SEED (INCLUDING THE NURSE CROP) WITH SLIGHTLY DAMPENED SAWDUST OR VERMICULITE (APPROXIMATELY TWO BUSHEL BASKETS OF SAWDUST PER 1000 SQUARE FEET, OR ONE PICKUP TRUCK PER ACRE).
   - C) DIVIDE THE SEED MIXTURE INTO TWO EQUAL GROUPS.
   - D) HAND BROADCAST ONE HALF OF THE SEED EVENLY OVER THE ENTIRE SITE.
   - E) HAND BROADCAST THE SECOND HALF OF THE SEED OVER THE SITE, WALKING PERPENDICULAR TO THE DIRECTION WALKED WHEN SEEDING THE FIRST HALF. THIS ENSURES EVEN SEED DISTRIBUTION.
   - F) COVER THE SEED LIGHTLY, WITH ONE–EIGHTH TO ONE–FOURTH INCH OF SOIL WITH A RAKE OR DRAG.
   - G) FIRM SEED IN THE SOIL BY ROLLING THE SITE WITH A CULTIPACKER, ROLLER, TRUCK OR TRACTOR TIRES
   - H) MULCH THE DESIGNATED PLANTING AREA WITH APPROXIMATELY 1 INCH OF WEED FREE STRAW SUCH AS WINTER WHEAT OR MARSH HAY. THE MULCH WILL HELP TO CONTROL EROSION ON STEEP SLOPES AND KEEP SAND OR CLAY SOILS MOIST DURING THE GERMINATION PERIOD. IF WORKING ON STEEP SLOPES, COVER THE MULCHED AREA WITH THE SPECIFIED STRAW EROSION MAT WITH TWO INCH OPENINGS TO ALLOW FOR UN–IMPEDED WILDFLOWER SEEDLING DEVELOPMENT. INSTALL STRAW EROSION MAT AS SPECIFIED.
2. MECHANICAL PLANTING OF PRAIRIE SEED ON AREAS GREATER THAN ONE ACRE, IT IS MORE EFFICIENT TO PLANT USING A BROADCAST OR A NO–TILL SEEDER. THE BROADCAST PLANTER SPREADS THE SEED OVER THE SOIL WHEREAS THE NO–TILL SEEDERS PLANT THE SEED IN ROWS BY OPENING SLITS IN THE SOIL. THE BROADCAST SEEDER RECOMMENDED BY PRAIRIE NURSERY IS THE "BRILLION" DOUBLE BOX AGRICULTURAL MODEL, TYPICALLY USED TO SEED ALFALFA AND GRASS MIXTURES BUT EQUIPPED WITH NATIVE GRASS BRISTLE BRUSHES IN THE LARGER FRONT BOX RATHER THAN THE STANDARD STEEL WIRE AGITATORS. NO–TILL SEEDERS COMMONLY USED FOR PRAIRIE PLANTINGS INCLUDE THE TRUAX DRILL, THE TYE WILDFLOWER AND NATIVE GRASS SEEDER, AND JOHN DEERE SEEDERS. ON STEEP SLOPES, MULCHING AND/OR EROSION FABRIC SHALL BE INSTALLED TO PREVENT THE SEED FROM WASHING PRIOR TO ITS ESTABLISHMENT. FOR HYDRO–MULCHING, ONLY USE A CELLULOSE–BASED MULCH AND DO NOT USE A TACKIFIER. ALTHOUGH GRASSES ARE ABLE TO PENETRATE THROUGH A TACKIFIER, THE WILDFLOWER SEEDLINGS TYPICALLY CANNOT.
3. OVER SEEDING TO ADD SPECIES OR FILL VOIDS IN AN EXISTING NATIVE PRAIRIE
   - A) CONDUCT SEEDING AT TIME INDICATED ABOVE.
   - B) DO NOT TILL OR DISTURB THE SOIL OF THE EXISTING NATIVE PRAIRIE.
   - B) MIX ALL SEED (DO NOT USE A NURSE CROP) WITH SLIGHTLY DAMPENED SAWDUST OR VERMICULITE (APPROXIMATELY TWO BUSHEL BASKETS OF SAWDUST PER 1000 SQUARE FEET, OR ONE PICKUP TRUCK PER ACRE).
   - C) DIVIDE THE SEED MIXTURE INTO TWO EQUAL GROUPS.
   - D) HAND BROADCAST ONE HALF OF THE SEED EVENLY OVER THE ENTIRE SITE. FOCUS ON AREAS THAT ARE THIN OR AREAS OF BARE SOIL.
   - E) HAND BROADCAST THE SECOND HALF OF THE SEED OVER THE SITE, WALKING PERPENDICULAR TO THE DIRECTION WALKED WHEN SEEDING THE FIRST HALF. THIS ENSURES EVEN SEED DISTRIBUTION.
   - F) DO NOT TILL THE SOIL OR APPLY MULCH TO THE OVER SEEDING. FREEZE THAW CYCLES THROUGH THE WINTER WILL WORK THE SEED INTO THE SOIL SO THAT IT CAN GERMINATE IN THE SPRING OF THE FOLLOWING 1 OR 2 YEARS.

NATIVE PRAIRIE MAINTENANCE

V. POST PLANTING MAINTENANCE

A. YEAR ONE – (BY CONTRACTOR)
WEED CONTROL DURING THE FIRST GROWING SEASON IS ESSENTIAL. THE PERENNIAL PRAIRIE SEEDLINGS GROW SLOWLY, AND ARE EASILY OUT–COMPETED BY THE FASTER–GROWING WEEDS THAT WILL INEVITABLY GERMINATE. SEEDED AREAS SHALL BE MOWED TO A HEIGHT OF 6 INCHES APPROXIMATELY THREE TIMES DURING THE FIRST GROWING SEASON. WHEN WEEDS REACH A HEIGHT OF 12–16 INCHES, THE ENTIRE PLANTING SHALL BE MOWED BACK TO 6 INCHES. AS A GENERAL RULE OF THUMB, ANYTHING THAT GROWS TALLER THAN 8 INCHES IN THE FIRST YEAR IS PROBABLY A WEED. MOWING AT 6 INCHES WILL CUT BACK TALLER WEEDS, WHILE LEAVING THE SHORTER PRAIRIE SEEDLINGS UNHARMED. USE A STRING TRIMMER OR WEED EATER ON SMALL AREAS. ON LARGER AREAS, A FLAIL MOWER IS THE BEST CHOICE. FLAIL MOWERS CHOP UP THE WEEDS AS THEY ARE CUT, INSTEAD OF LAYING THE CUT WEEDS ON TOP OF THE PRAIRIE SEEDLINGS. IF A FLAIL MOWER IN NOT AVAILABLE, A ROTARY MOWER OR SICKLE BAR MOWER MAY BE USED. BE SURE TO MOW BEFORE ANY WEEDS SET SEED, TO PREVENT FUTURE WEED INFESTATION. DO NOT PULL WEEDS IN THE FIRST YEAR, AS THIS WILL DISTURB OR DESTROY THE DEVELOPING PRAIRIE SEEDLINGS. AT THE END OF THE FALL OF THE FIRST GROWING SEASON, LEAVE THE DEAD VEGETATION AND STUBBLE STANDING, TO HELP INSULATE THE SEEDLINGS AND REDUCE WINTER FROST HEAVING.

B. YEAR TWO (BY OWNER)
DURING THE SPRING OF THE SECOND YEAR, MOW THE STANDING RESIDUAL VEGETATION TO THE GROUND IN EARLY SPRING, AND RAKE OFF THE CUTTINGS. IF BIENNIAL WEEDS SUCH AS SWEET CLOVER, BURDOCK, WILD PARSNIP, ETC. ARE A PROBLEM, MOW AGAIN AT APPROXIMATELY 12 INCHES WHEN THE MAJORITY OF BIENNIAL WEEDS ARE IN FULL FLOWER. MAKE SURE TO MOW THEM BEFORE THEY MAKE SEED! EXPECT THIS SECOND MOWING FOR CONTROLLING BIENNIAL WEEDS TO OCCUR AROUND MID–JUNE.

C. YEAR THREE AND BEYOND (BY OWNER)
BEGINNING IN THE SPRING OF THE THIRD YEAR, THE PRAIRIE CAN BE BURNED FOR THE FIRST TIME TO MAINTAIN ITS DIVERSITY AND VIGOR. BURNING IN MID–SPRING HELPS SET BACK NON–NATIVE COOL SEASON WEEDS AND GRASSES SUCH AS QUACKGRASS, BLUEGRASS, BROMEGRASS, ETC. BURNING ALSO ENCOURAGES EARLIER SOIL WARMING IN SPRING, WHICH FAVORS GROWTH OF THE HEAT–LOVING WARM SEASON PRAIRIE PLANTS. IF BURNING IS NOT POSSIBLE, THE PRAIRIE CAN BE MOWED AS CLOSELY TO THE GROUND AS POSSIBLE, AND THEN THE MOWED MATERIAL RAKED OFF TO EXPOSE THE SOIL AND ENCOURAGE WARMING.

TIMING IS VERY IMPORTANT WHEN BURNING OR MOWING YOUR PRAIRIE. THE GOAL IS TO ALLOW UNDESIRABLE COOL SEASON PLANTS TO BEGIN ACTIVE GROWTH PRIOR TO BURNING OR MOWING, SO THAT THEY WILL BE HARMED IN THE PROCESS. THE OPTIMAL DATE FOR BURNING OR MOWING CAN VARY BY AS MUCH AS A MONTH IN ANY GIVEN YEAR, DUE TO DIFFERENCES IN WEATHER. HOWEVER, WE CAN USE PLANTS AS OUR CALENDAR TO ENSURE OPTIMAL TIMING. THE BEST TIME TO BURN OR MOW MOST PRAIRIES IS WHEN THE BUDS OF THE SUGAR MAPLE TREE (ACER SACCHARUM) BEGIN TO BREAK OPEN IN SPRING. THIS USUALLY WILL OCCUR SOMETIME BETWEEN APRIL 1 AND MAY 15, DEPENDING UPON THE LOCATION AND THE WEATHER IN ANY GIVEN YEAR.

IT IS RECOMMENDED THAT YOU DIVIDE YOUR PRAIRIE INTO TWO "MANAGEMENT UNITS." BURN OR MOW ONE HALF EVERY OTHER YEAR, ALTERNATING FROM YEAR TO YEAR SO THAT EACH HALF IS BURNED ONCE EVERY TWO YEARS. THIS HELPS PREVENT INVASION BY WOODY PLANTS, AS WELL AS COOL SEASON WEEDS. BURNING OR MOWING LESS FREQUENTLY THAN EVERY OTHER YEAR CAN RESULT IN TREES AND SHRUBS GAINING A FOOTHOLD IN YOUR PRAIRIE. LEAVING ONE HALF UNBURNED OR UNMOWED ALSO LEAVES BUTTERFLY AND MOTH PUPAE AND EGGS INTACT, SO THAT THEY CAN RE–POPULATE THE ECOSYSTEM THAT YEAR. BURNING EVERY YEAR IS GENERALLY NOT RECOMMENDED, AS IT TENDS TO INCREASE THE DOMINANCE OF THE WARM SEASON PRAIRIE GRASSES AND CERTAIN PRAIRIE FLOWERS. BURNING OR MOWING EVERY OTHER YEAR HELPS CREATE VARYING CONDITIONS FROM YEAR TO YEAR, MAINTAINING MAXIMUM PLANT AND ANIMAL DIVERSITY.

15 NATIVE PRAIRIE SEEDING NOTES
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

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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
01/16/2022	ARC SUBMISSION

KEY PLAN

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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