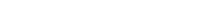
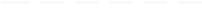
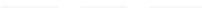
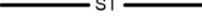
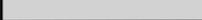
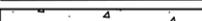


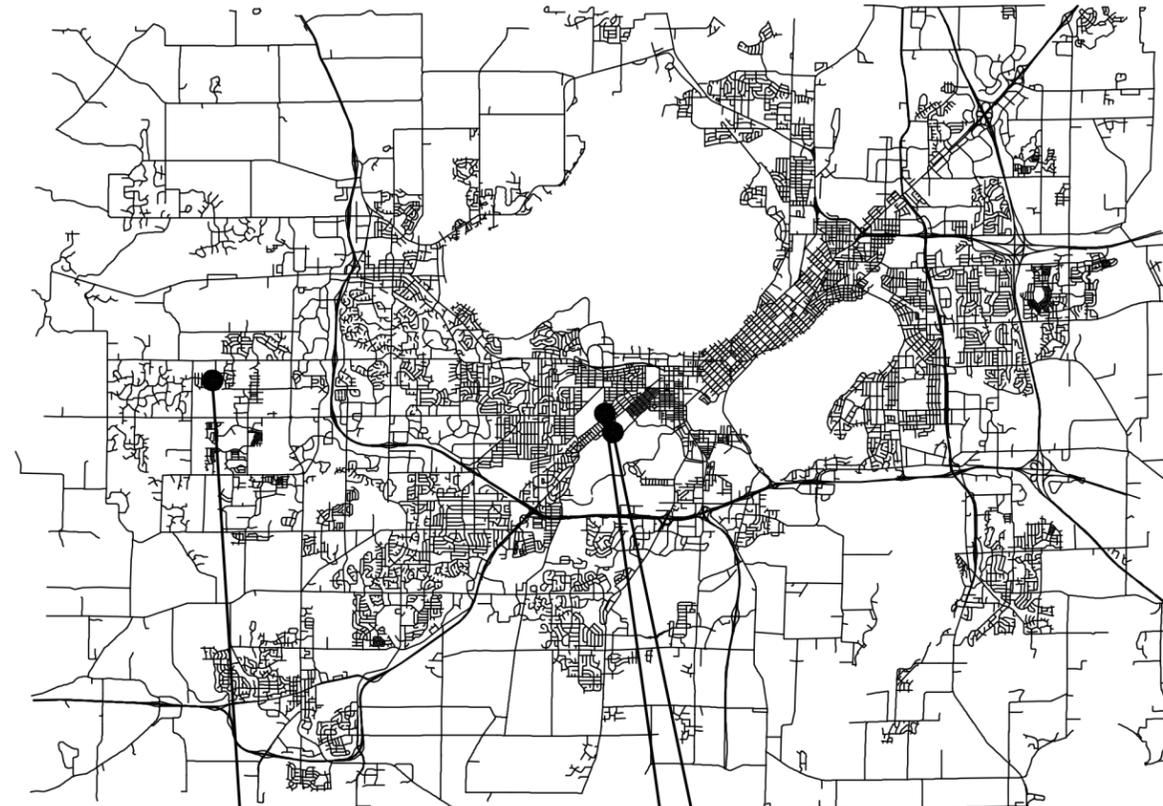
LEGEND

-  EX. ELECTRICAL HAND HOLE
-  EX. ELECTRICAL PEDESTAL
-  EX. TELEPHONE PEDESTAL
-  EX. TREE
-  EX. WATER HYDRANT
-  EX. WATER VALVE
-  EX. PROPERTY LINE
-  EX. EASEMENT
-  EX. FENCE LINE
-  EX. TREE LINE
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER)
-  EX. ABANDONED UTILITY
-  EX. ELECTRIC
-  EX. FIBER OPTIC
-  EX. NATURAL GAS
-  EX. OVERHEAD LINE
-  EX. SANITARY SEWER
-  EX. STORM SEWER
-  EX. CABLE TV
-  EX. UNDERGROUND TELEPHONE
-  EX. WATER LINE
-  EX. GRAVEL
-  EX. CONCRETE

-  PRO. SPOT ELEVATION
-  PRO. CONTOUR (INDEX)
-  PRO. CONTOUR (INTER)
-  PRO. FENCE
-  PRO. GRADING LIMITS
-  PRO. SILT SOCK
-  PRO. CONSTRUCTION FENCE
-  PRO. STORM SEWER (UNDERDRAIN)
-  PRO. ASPHALT
-  PRO. WOOD MULCH
-  PRO. PEA GRAVEL
-  PRO. CONCRETE
-  PRO. CONSTRUCTION ENTRANCE
-  PRO. BOULDER RETAINING WALL
-  REMOVE EX. ASPHALT
-  REMOVE EX. TOPSOIL

2020 PLAYGROUND IMPROVEMENTS - GROUP 1

MUNIS NUMBERS: 11969-51-130 & 12676-51-130



HILLINGTON GREEN PARK
435 HILLINGTON WAY

WINGRA PARK
824 KNICKERBOCKER STREET

EAGLE TRACE PARK
10321 WHITE FOX LN

SHEET SCHEDULE

- 1 Eagle Trace Park**
 - 1.1 Project Location & Site Access
 - 1.2 Existing Conditions
 - 1.3 Demolition & Protection Plan
 - 1.4 Site Plan
 - 1.5 Grading and Erosion Control Plan
 - 1.6 Design Computations
- 2 Hillington Green Park**
 - 2.1 Project Location & Site Access
 - 2.2 Existing Conditions
 - 2.3 Demo & Protection Plan
 - 2.4 Site Plan
 - 2.5 Grading & Erosion Control Plan
 - 2.6 Design Computations
- 3 Wingra Park**
 - 3.1 Project Location & Site Access
 - 3.2 Existing Conditions
 - 3.3 Demolition & Protection Plan
 - 3.4 Site Plan
 - 3.5 Grading and Erosion Control Plan
 - 3.6 Design Computations
 - 3.7 Design Computations
- 4 Details**
 - 4.1 Details - Playground & Pavement Edge
 - 4.2 Details - Ornamental Metal Fencing

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PROJECT:

*2020 PLAYGROUND
IMPROVEMENTS -
GROUP 1*

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM	DATE
ADVERTISED TO BID	2020-04-09

PUBLIC WORKS PROJECT #:
8849

SHEET TITLE:
COVER SHEET

DESIGNED BY (EAGLE TRACE & WINGRA PARK):

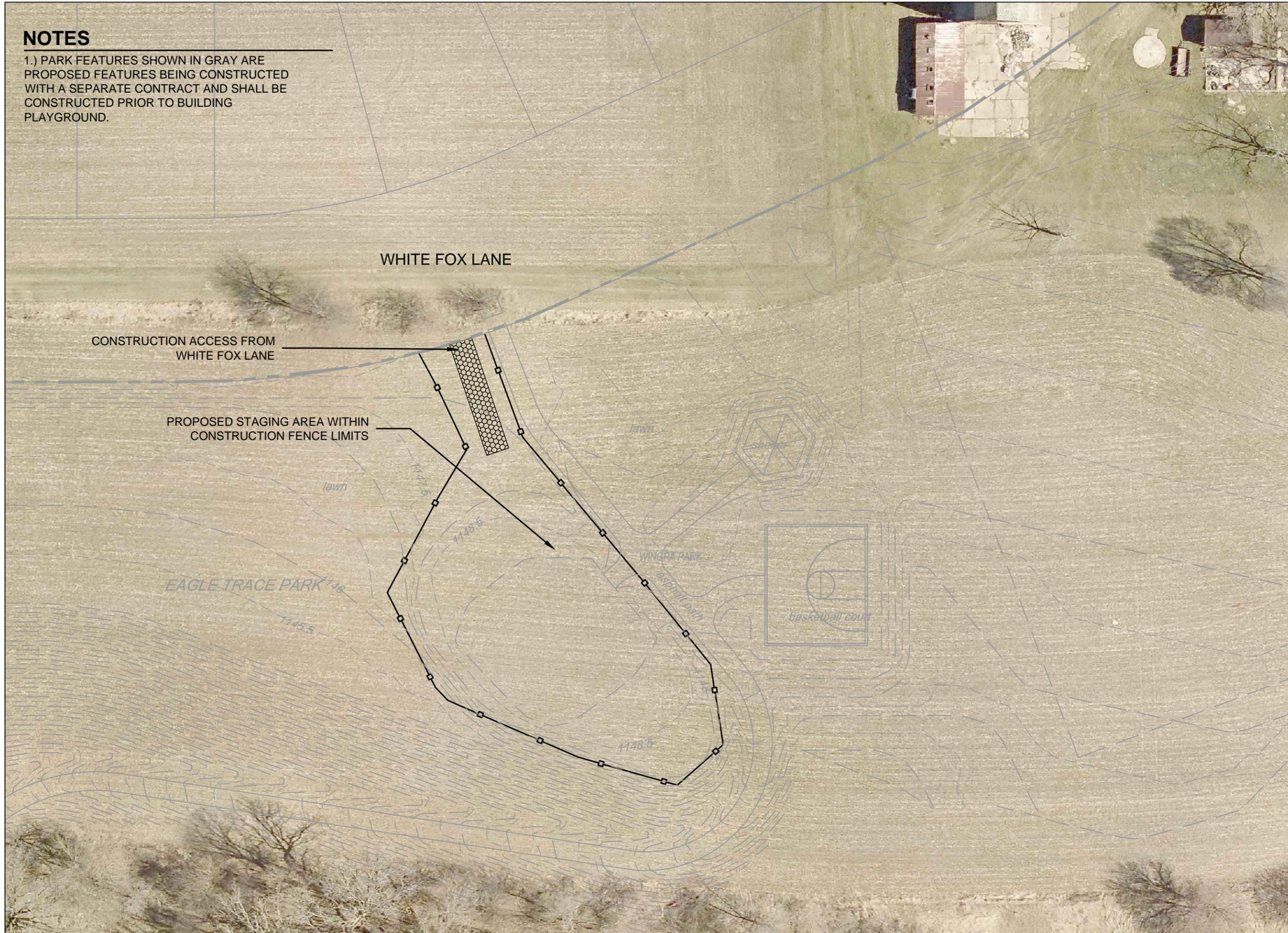


DESIGNED BY (HILLINGTON GREEN PARK):



NOTES

1.) PARK FEATURES SHOWN IN GRAY ARE PROPOSED FEATURES BEING CONSTRUCTED WITH A SEPARATE CONTRACT AND SHALL BE CONSTRUCTED PRIOR TO BUILDING PLAYGROUND.



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PROJECT:
2020 PLAYGROUND IMPROVEMENTS - GROUP 1

PROJECT ADDRESS:
**EAGLE TRACE PARK
 10321 WHITE FOX LN
 MADISON, WI 53593**

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ITEM	DATE
ADVERTISED TO BID	2020-04-09

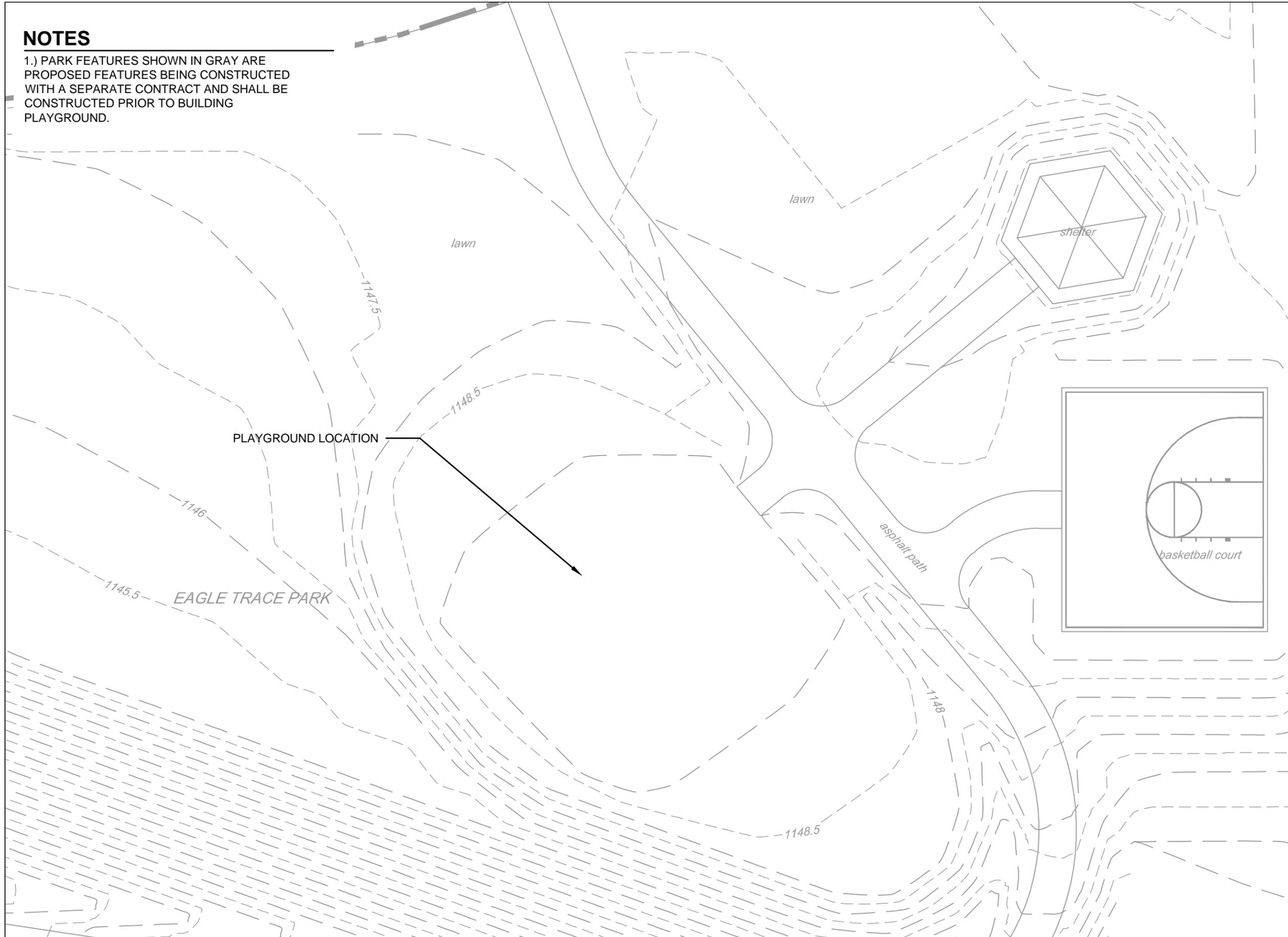
PUBLIC WORKS PROJECT #:
8849

SHEET TITLE:
PROJECT LOCATION AND SITE ACCESS

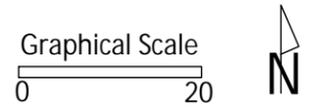
SHEET NUMBER:
1.1

NOTES

1.) PARK FEATURES SHOWN IN GRAY ARE PROPOSED FEATURES BEING CONSTRUCTED WITH A SEPARATE CONTRACT AND SHALL BE CONSTRUCTED PRIOR TO BUILDING PLAYGROUND.



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PROJECT:
2020 PLAYGROUND IMPROVEMENTS - GROUP 1

PROJECT ADDRESS:
**EAGLE TRACE PARK
 10321 WHITE FOX LN
 MADISON, WI 53593**

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ITEM	DATE
ADVERTISED TO BID	2020-04-09

PUBLIC WORKS PROJECT #:
8849

SHEET TITLE:
EXISTING CONDITIONS

SHEET NUMBER:
1.2



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PROJECT:
**2020 PLAYGROUND
 IMPROVEMENTS -
 GROUP 1**

PROJECT ADDRESS:
**EAGLE TRACE PARK
 10321 WHITE FOX LN
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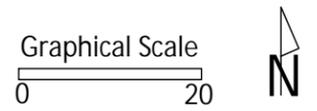
PUBLIC WORKS PROJECT #:
8849

SHEET TITLE:
**DEMOLITION AND
 PROTECTION PLAN**

SHEET NUMBER:
1.3

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PROJECT:
**2020 PLAYGROUND
 IMPROVEMENTS -
 GROUP 1**

PROJECT ADDRESS:
**EAGLE TRACE PARK
 10321 WHITE FOX LN
 MADISON, WI 53593**

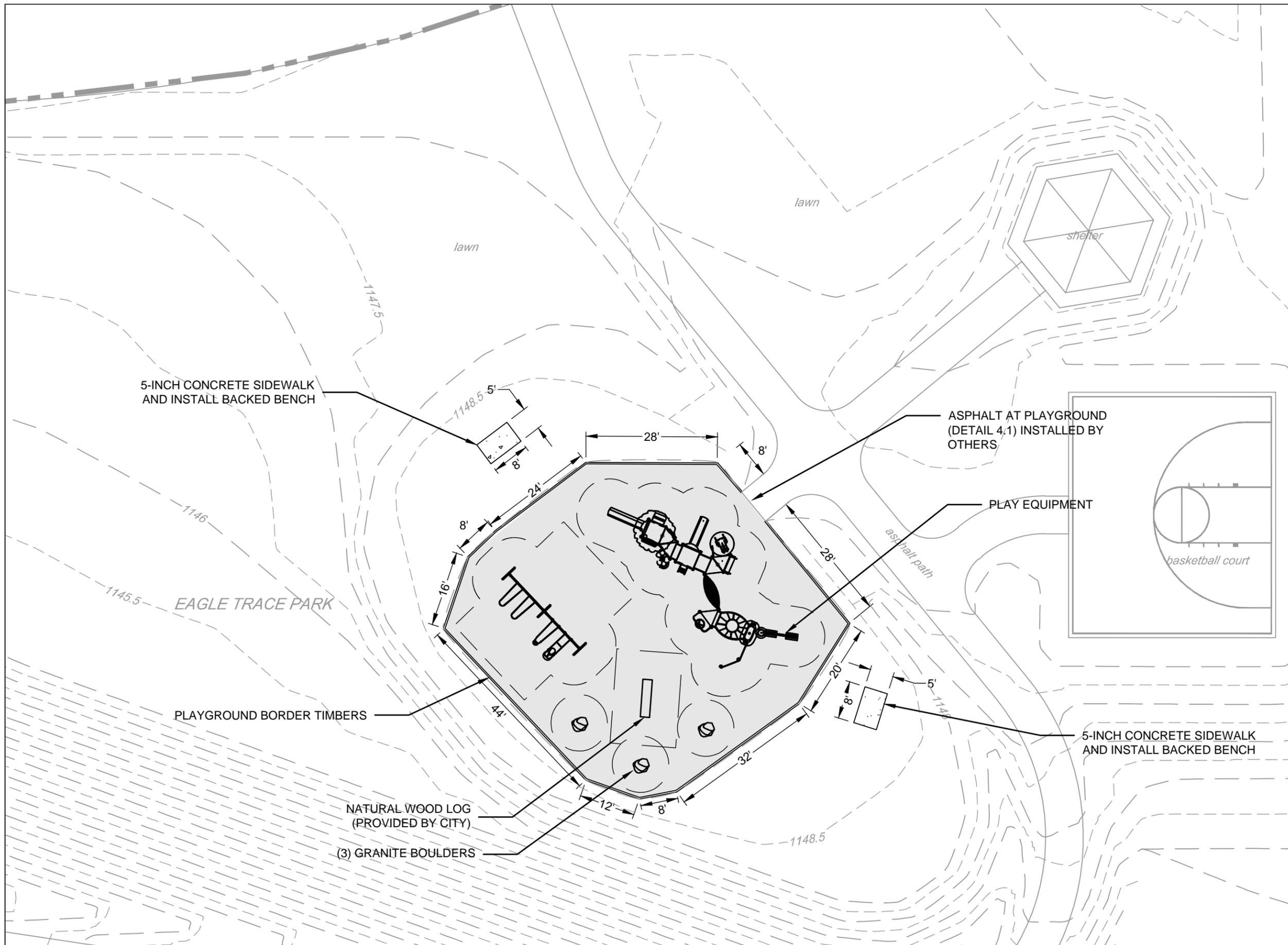
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ITEM	DATE
ADVERTISED TO BID	2020-04-09

PUBLIC WORKS PROJECT #:
8849

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
1.4



NOTES

1.) ALL DISTURBED AREAS SHALL RECEIVE CLASS I, URBAN TYPE A EROSION CONTROL MATTING.

Eagle Trace Park		
Drain Tile Invert (Flowline) Elevations		
Point	Invert (ft)	Distance from top of timbers 1049.57 (INCHES)
A	1047.52	-24.64
B	1047.42	-25.74
C	1047.39	-26.15
D	1047.32	-27.02
E	1047.29	-27.42
F	1047.20	-28.42
G	1047.06	-30.07
H	1047.52	-24.64
I	1047.52	-24.64
J	1047.52	-24.64
K	1047.52	-24.64
L	1047.52	-24.64
M	1047.52	-24.64

Drain Tile Lengths & Slopes from intersection to intersection				
From	To	Length (ft)	Slope (%)	Pipe type
A	B	13.13	-0.70%	UNDERDRAIN
B	C	6.82	-0.50%	UNDERDRAIN
C	D	14.41	-0.50%	UNDERDRAIN
D	E	6.64	-0.50%	UNDERDRAIN
E	F	16.68	-0.50%	UNDERDRAIN
F	G	23.4	-0.59%	UNDERDRAIN
K	B	25	-0.37%	UNDERDRAIN
L	D	34.9	-0.57%	UNDERDRAIN
M	F	38.85	-0.81%	UNDERDRAIN
H	C	26.05	-0.48%	UNDERDRAIN
I	E	35.7	-0.65%	UNDERDRAIN
J	F	30.97	-1.02%	UNDERDRAIN
	Total	272.55		

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PROJECT:
2020 PLAYGROUND IMPROVEMENTS - GROUP 1

PROJECT ADDRESS:
**EAGLE TRACE PARK
10321 WHITE FOX LN
MADISON, WI 53593**

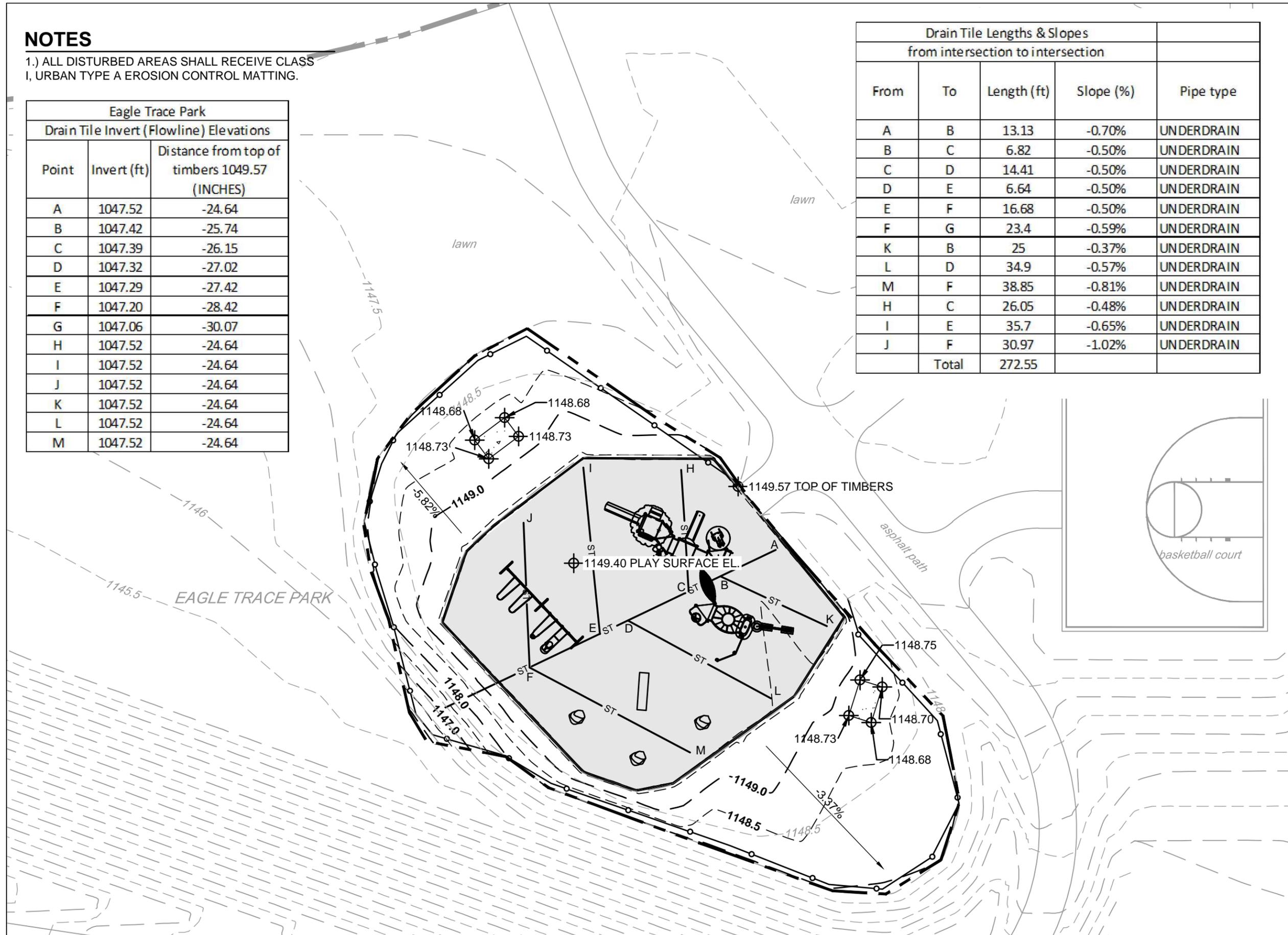
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ITEM DATE
ADVERTISED TO BID 2020-04-09

PUBLIC WORKS PROJECT #:
8849

SHEET TITLE:
**GRADING PLAN AND
EROSION CONTROL
PLAN**

SHEET NUMBER:
1.5



Eagle Trace Playground

City of Madison Public Works Contract
Date Revised: 3/3/2020

Notes:
Positive volumes are cuts, negative volumes are fills.
Not all parts of all surface models (Digital Terrain Models) are used for computations or intended for actual construction.

Sort	Grp	Material	Item	From Surface Model	To Surface Model	area (sq ft)	depth (ft)	Unfactored volume (cu ft)	Unfactored volume (cu yd)	Expansion Factor (%)	Factored (Uncompacted) Volume (cu yd)
1.1	Grass to Grass	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	3117.98	0.50	1558.99	57.7	0%	57.7
1.2	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	3117.98	varies	76.99	2.9	0%	2.9
1.3	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	3117.98	varies	-960.76	-35.6	0%	-35.6
1.4	Grass to Grass	Topsoil Place	Place 6" topsoil	n/a	n/a	3117.98	-0.50	-1558.99	-57.7	0%	-57.7
2.1	Grass to 5-inch Concrete	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	80.00	0.50	40.00	1.5	0%	1.5
2.2	Grass to 5-inch Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-8inch	80.00	varies	0.81	0.0	0%	0.0
2.3	Grass to 5-inch Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-8inch	80.00	varies	-0.61	0.0	0%	0.0
2.4	Grass to 5-inch Concrete	Concrete Place	Place 5" of concrete	n/a	n/a	80.00	-0.41	-32.80	-1.2	0%	-1.2
2.5	Grass to 5-inch Concrete	Gravel Place (Concrete)	Place 3" of gravel	n/a	n/a	80.00	-0.25	-20.00	-0.7	0%	-0.7
3.1	Grass to play surface	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	3998.50	0.50	1999.25	74.0	0%	74.0
3.2	Grass to play surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12 inch	3998.50	varies	385.93	14.3	0%	14.3
3.3	Grass to play surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12 inch	3998.50	varies	-3.15	-0.1	0%	-0.1
3.4	Grass to play surface	Play Surface Place (Wood Mulch)	Place 14" of wood mulch	n/a	n/a	3998.50	-1.17	-4666.25	-172.8	0%	-172.8
4.1	Grass to Timbers	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	76.46	0.50	38.23	1.4	0%	1.4
4.2	Grass to Timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	76.46	varies	0.00	0.0	0%	0.0
4.3	Grass to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	76.46	varies	-5.11	-0.2	0%	-0.2
4.4	Grass to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	na	76.46	-1.00	-76.46	-2.8	0%	-2.8
5.1	Adjust	Play Surface Place	of asphalt ramp gravel base volume = 1/2 x (2.25 ft x 9 ft x 7 in)	n/a	n/a	9	-0.29	-3	-0.1	0%	-0.1

Computation Summary

Positive volumes are cuts (material available), negative volumes are fills (material needed)

Row Labels	Sum of Factored (Uncompacted) Volume (cu yd)
Subsoil Excavate	17.2
Subsoil Place	-35.9
Topsoil Excavate	134.7
Topsoil Place	-57.7
Concrete Place	-1.2
Gravel Place (Concrete)	-0.7
Play Surface Place (Wood Mulch)	-148.1
Border Timbers Place (placeholder volume)	-2.8
Grand Total	-94.7

Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	152	CY	= Subsoil Excavate + Topsoil Excavate
20202 Fill - Borrow	19	CY	= Subsoil Excavate + Subsoil Place
20221 Topsoil	346	SY	= (Topsoil Place)-. 167
90003 Playground Surfacing - Wood Fiber Mulch	177.7	CY	= Play Surface Place (Wood Mulch * -1.2)

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PROJECT:
2020 PLAYGROUND IMPROVEMENTS - GROUP 1

PROJECT ADDRESS:
**EAGLE TRACE PARK
10321 WHITE FOX LN
MADISON, WI 53593**

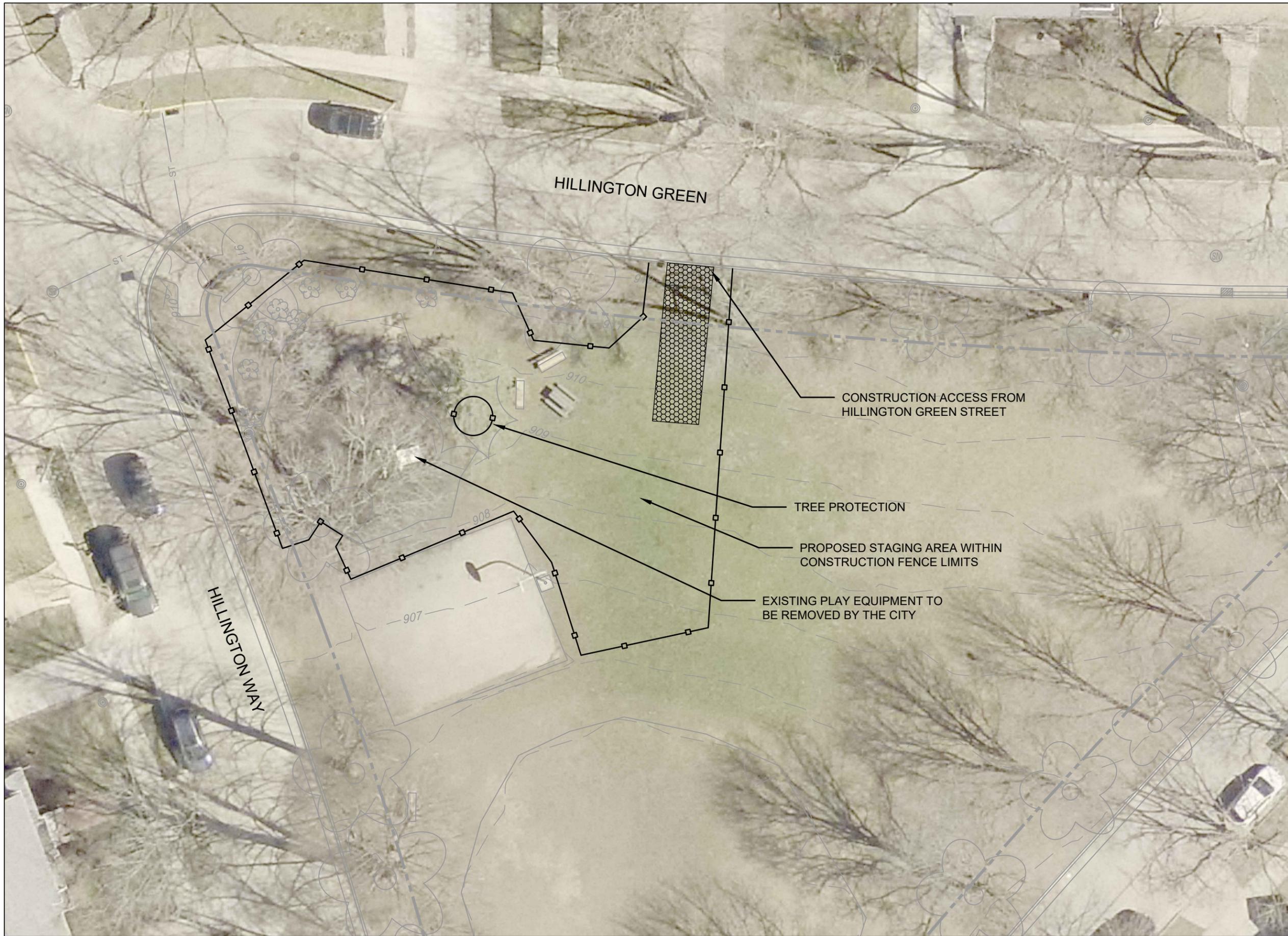
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ITEM DATE
ADVERTISED TO BID 2020-04-09

PUBLIC WORKS PROJECT #:
8849

SHEET TITLE:
DESIGN COMPUTATIONS

SHEET NUMBER:
1.6



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Graphical Scale
 0 20 N

PROJECT:
**2020 PLAYGROUND
 IMPROVEMENTS -
 GROUP 1**

PROJECT ADDRESS:
**HILLINGTON GREEN
 435 HILLINGTON WAY
 MADISON, WI 53726**

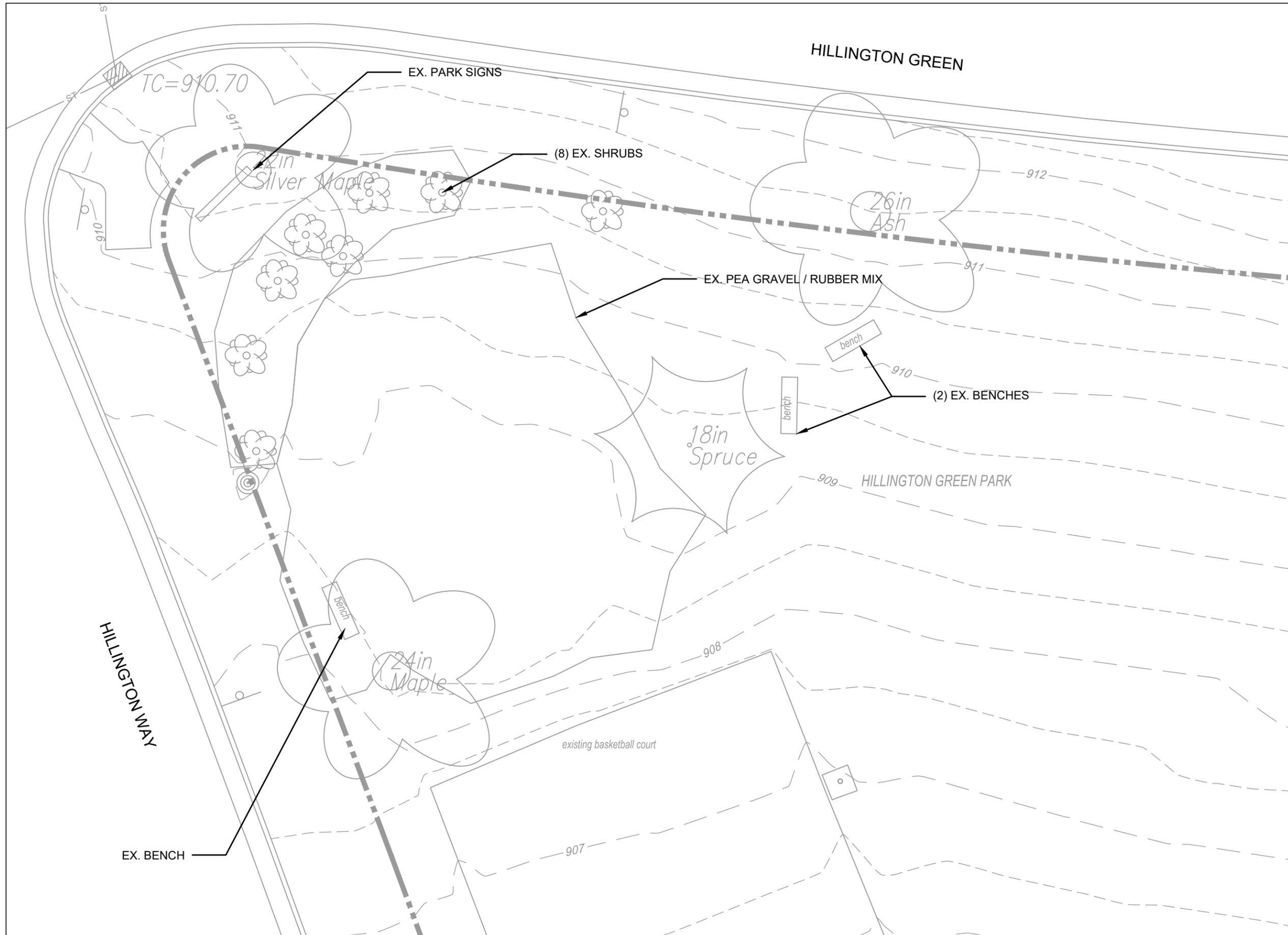
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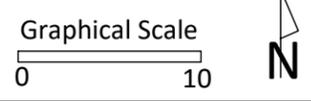
PUBLIC WORKS PROJECT #:
8849

SHEET TITLE:
**PROJECT LOCATION
 AND SITE ACCESS**

SHEET NUMBER:
2.1



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PROJECT:
**2020 PLAYGROUND
 IMPROVEMENTS -
 GROUP 1**

PROJECT ADDRESS:
**HILLINGTON GREEN
 435 HILLINGTON WAY
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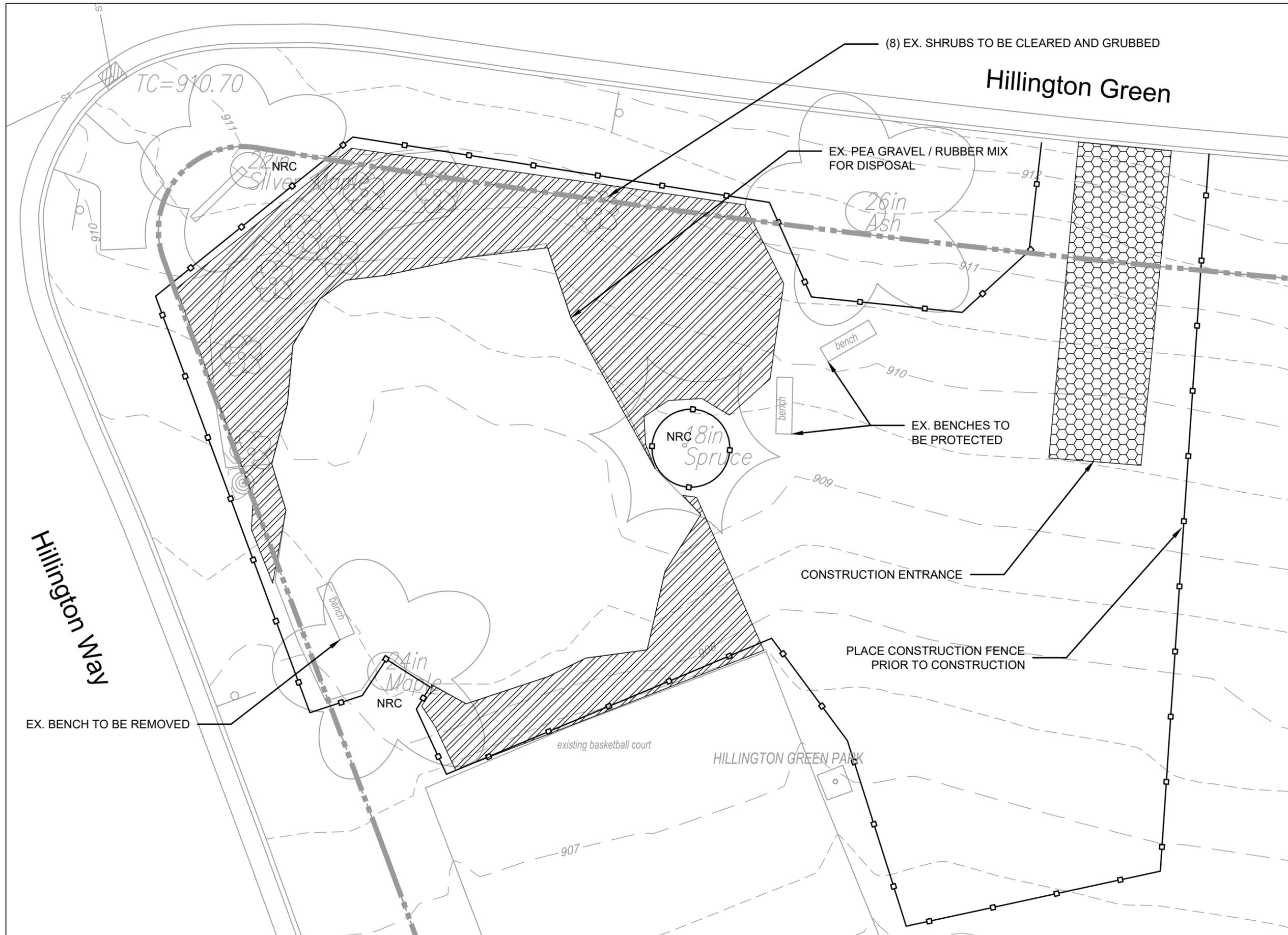
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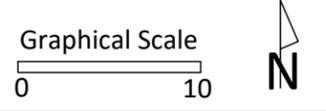
PUBLIC WORKS PROJECT #:
8849

SHEET TITLE:
EXISTING CONDITIONS

SHEET NUMBER:
2.2



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PROJECT:
**2020 PLAYGROUND
 IMPROVEMENTS -
 GROUP 1**

PROJECT ADDRESS:
**HILLINGTON GREEN
 435 HILLINGTON WAY
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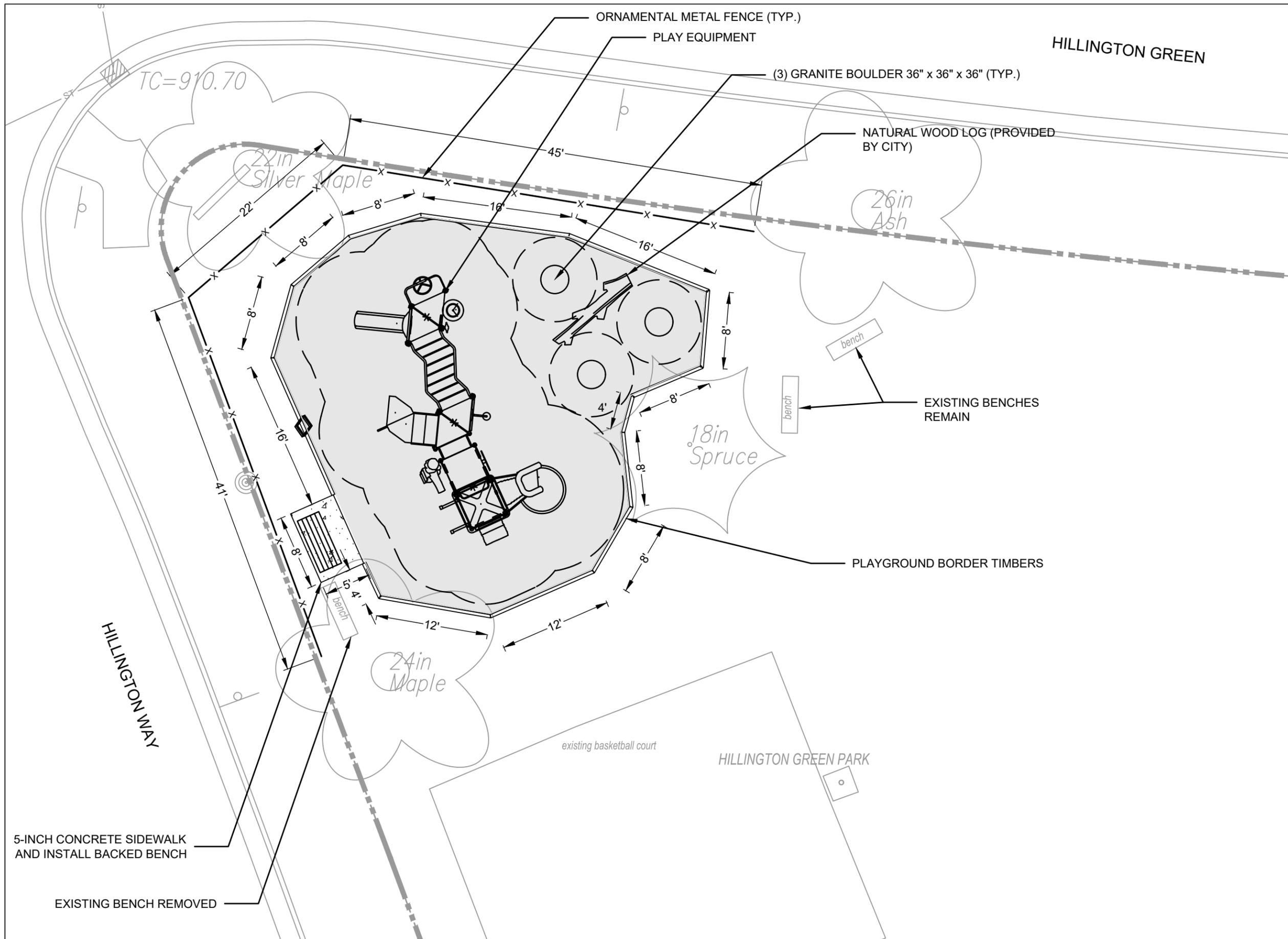
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ITEM	DATE
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8849

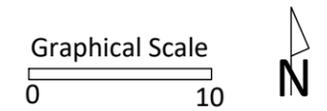
SHEET TITLE:
**DEMOLITION AND
 PROTECTION PLAN**

SHEET NUMBER:
2.3



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PROJECT:
**2020 PLAYGROUND
 IMPROVEMENTS -
 GROUP 1**

PROJECT ADDRESS:
**HILLINGTON GREEN
 435 HILLINGTON WAY
 MADISON, WI 53726**

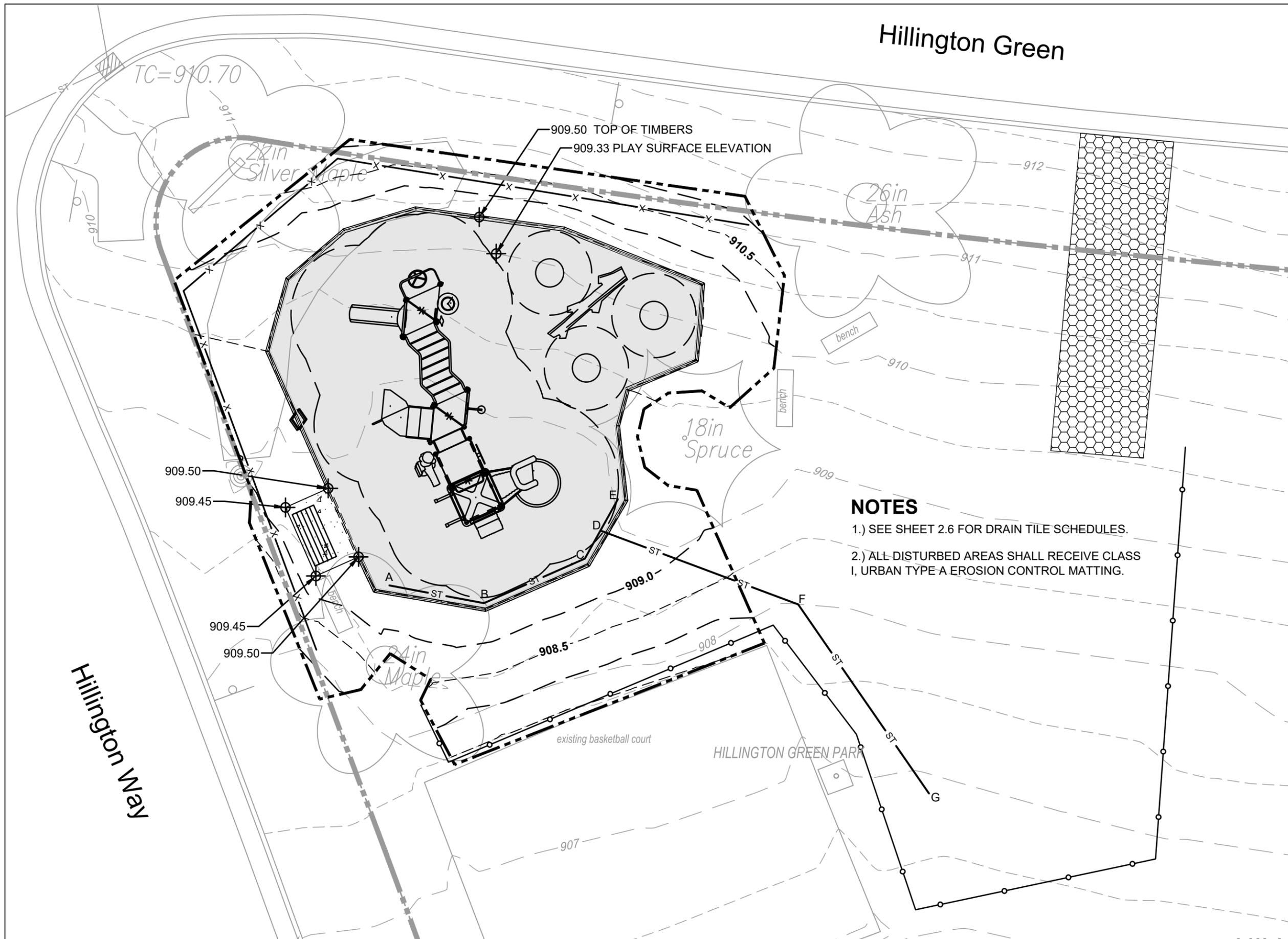
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ITEM	DATE
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PUBLIC WORKS PROJECT #:
8849

SHEET TITLE:
SITE PLAN

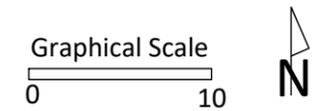
SHEET NUMBER:
2.4



Hillington Green

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PROJECT:
**2020 PLAYGROUND
 IMPROVEMENTS -
 GROUP 1**

PROJECT ADDRESS:
**HILLINGTON GREEN
 435 HILLINGTON WAY
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ITEM	DATE
ADVERTISED TO BID	2020-04-09

PUBLIC WORKS PROJECT #:
8849

SHEET TITLE:
**GRADING AND
 EROSION CONTROL
 PLAN**

SHEET NUMBER:
2.5

- NOTES**
- 1.) SEE SHEET 2.6 FOR DRAIN TILE SCHEDULES.
 - 2.) ALL DISTURBED AREAS SHALL RECEIVE CLASS I, URBAN TYPE-A EROSION CONTROL MATTING.

Hillington Green Playground
 City of Madison Public Works Contract
 Date Revised: 3/25/2020

Notes:
 Positive volumes are cuts, negative volumes are fills
 Not all parts of all surface models (Digital Terrain Models) are used for computations or intended for actual construction.

Sort	Grp	Material	Item	From Surface Model	To Surface Model	area (sq ft)	depth (ft)	Unfactored volume (cu ft)	Unfactored volume (cu yd)	Expansion Factor (%)	Factored (Uncompacted) Volume (cu yd)
1.1	Grass to Grass	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	1022.65	0.50	511.33	18.9	0%	18.9
1.2	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	1022.65	varies	211.76	7.8	0%	7.8
1.3	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	1022.65	varies	-22.06	-0.8	0%	-0.8
1.4	Grass to Grass	Topsoil Place	Place 6" topsoil	n/a	n/a	1022.65	-0.50	-511.33	-18.9	0%	-18.9
2.1	Grass to play surface	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	290.90	0.50	145.45	5.4	0%	5.4
2.2	Grass to play surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12inch	290.90	varies	326.80	12.1	0%	12.1
2.3	Grass to play surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12 inch	290.90	varies	0.00	0.0	0%	0.0
2.4	Grass to play surface	Play Surface Place (Wood Mulch)	Place 12" of wood mulch	n/a	n/a	290.90	-1.00	-290.90	-10.8	0%	-10.8
3.1	Grass to Timbers	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	25.10	0.50	12.55	0.5	0%	0.5
3.2	Grass to Timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	25.10	varies	25.68	1.0	0%	1.0
3.3	Grass to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	25.10	varies	0.00	0.0	0%	0.0
3.4	Grass to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	na	25.10	-1.00	-25.10	-0.9	0%	-0.9
4.1	Play surface to Grass	Play Surface Excavate	Remove existing play surface, estimated depth 17 in	n/a	n/a	457.00	1.42	647.42	24.0	0%	24.0
4.2	Play surface to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-6in	457.00	varies	0.00	0.0	0%	0.0
4.3	Play surface to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-6in	457.00	varies	-564.00	-20.9	0%	-20.9
4.4	Play surface to Grass	Topsoil Place	Place 6" of topsoil	n/a	n/a	457.00	-0.50	-228.50	-8.5	0%	-8.5
5.1	Play surface to play surface	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	1063.44	1.42	1508.54	55.8	0%	55.8
5.2	Play surface to play surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	1063.44	varies	11.58	0.4	0%	0.4
5.3	Play surface to play surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	1063.44	varies	-702.63	-26.0	0%	-26.0
5.4	Play surface to play surface	Play Surface Place (Wood Mulch)	Place 12in wood mulch play surface	n/a	n/a	1063.44	-1.00	-1063.44	-39.4	0%	-39.4
6.1	Play surface to timbers	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	14.88	1.42	21.08	0.8	0%	0.8
6.2	Play surface to timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	14.88	varies	0.00	0.0	0%	0.0
6.3	Play surface to timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	14.88	varies	-15.70	-0.6	0%	-0.6
6.4	Play surface to timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	14.88	-1.00	-14.88	-0.6	0%	-0.6
7.1	Play surface to 5" Concrete	Play Surface Excavate	Remove existing play surface, estimated depth 17 in	n/a	n/a	41.32	1.42	58.54	2.2	0%	2.2
7.2	Play surface to 5" Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-7in	41.32	varies	0.00	0.0	0%	0.0
7.3	Play surface to 5" Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-7in	41.32	varies	-68.87	-2.6	0%	-2.6
7.4	Play surface to 5" Concrete	Concrete Place	Place 6" of concrete	n/a	n/a	41.32	-0.50	-20.66	-0.8	0%	-0.8
7.5	Play surface to 5" Concrete	Gravel Place	Place 2" of gravel base	n/a	n/a	41.32	-0.17	-6.90	-0.3	0%	-0.3
8.1	Play surface to timbers	Play Surface Excavate	Remove existing play surface, estimated depth 17 in	n/a	n/a	14.88	1.42	21.08	0.8	0%	0.8
8.2	Play surface to timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-6in	14.88	varies	0.00	0.0	0%	0.0
8.3	Play surface to timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-6in	14.88	varies	-15.76	-0.6	0%	-0.6
8.4	Play surface to timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	14.88	-1.00	-14.88	-0.6	0%	-0.6

Hillington Green Playground
 City of Madison Public Works Contract
 Date Revised: 03-19-20

Computation Summary

Positive volumes are cuts (material available), negative volumes are fills (material needed)

Row Labels	Sum of Factored (Uncompacted) Volume
Subsoil Excavate	21.3
Subsoil Place	-50.9
Topsoil Excavate	24.8
Topsoil Place	-27.4
Concrete Place	-0.8
Gravel Place	-0.3
Play Surface Place (Wood Mulch)	-50.2
Border Timbers Place (placeholder volume)	-1.5
Play Surface Excavate	82.7
Grand Total	-2.1

Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	46	CY	= Subsoil Excavate + Topsoil Excavate + Pavement Excavate + Concrete Excavate
20104 Excavation Cut -Pea Gravel/Rubber Mix	83	CY	= Play Surface Excavate
20202 Fill - Borrow	30	CY	= Subsoil Excavate + Subsoil Place
20221 Topsoil	164	SY	= (Topsoil Place)/-. 167
40102 Crushed Aggregate Base Course Gradation No. 2	1	tons	= ((Gravel Place) pavement) * -2 ton/cubic yard
90003 Playground Surfacing - Wood Fiber Mulch	60.2	CY	= Play Surface Place (Wood Mulch * -1.2)

Hillington Green		
Drain Tile Invert (Flowline) Elevations		
Point	Invert(ft)	Distance from top of timbers 909.33 (INCHES)
A	908.00	1.33
B	907.95	1.38
C	907.89	1.44
D	907.87	1.46
E	907.89	1.44
F	907.42	1.91
G	906.88	2.45

Drain Tile Lengths & Slopes				
from intersection to intersection				
From	To	Length (ft)	Slope (%)	Pipe type
A	B	10.28	0.5%	UNDERDRAIN
B	C	11.78	0.5%	UNDERDRAIN
C	D	3.42	0.5%	UNDERDRAIN
E	D	3.82	0.5%	UNDERDRAIN
D	F	22.56	2.0%	UNDERDRAIN
F	G	24.5	2.2%	UNDERDRAIN

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PARKS DIVISION
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PROJECT:
2020 PLAYGROUND IMPROVEMENTS - GROUP 1

PROJECT ADDRESS:
**HILLINGTON GREEN
 435 HILLINGTON WAY
 MADISON, WI 53726**

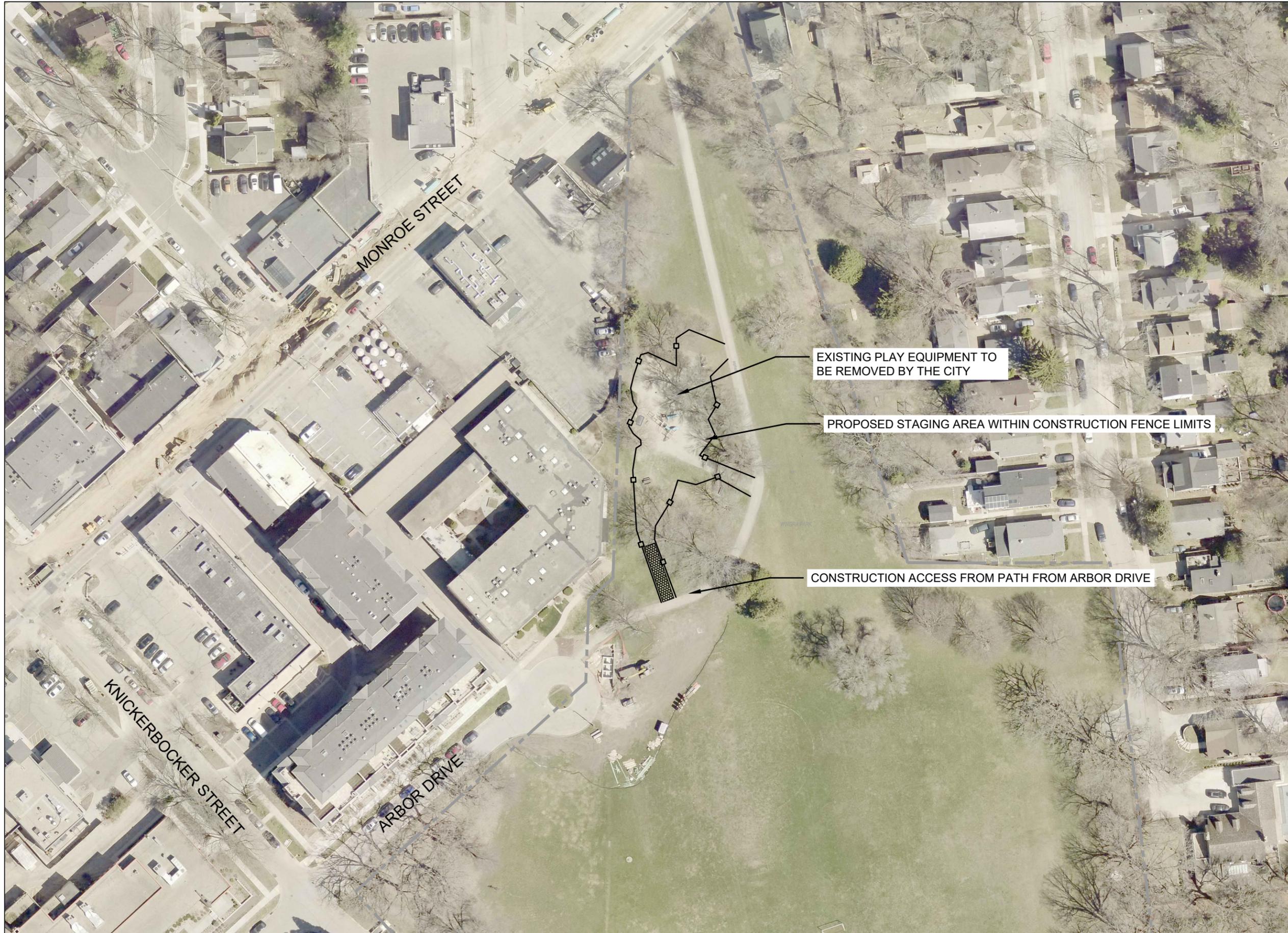
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM DATE
 ADVERTISED TO BID 2020-04-09

PUBLIC WORKS PROJECT #:
8849

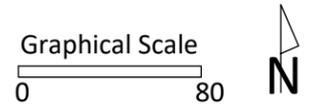
SHEET TITLE:
DESIGN COMPUTATIONS

SHEET NUMBER:
2.6



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play
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PROJECT:
*2020 PLAYGROUND
 IMPROVEMENTS -
 GROUP 1*

PROJECT ADDRESS:
*WINGRA PARK
 824 KNICKERBOCKER ST.
 MADISON, WI 53711*

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ITEM	DATE
ADVERTISED TO BID	2020-04-09

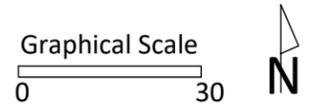
PUBLIC WORKS PROJECT #:
8849

SHEET TITLE:
**PROJECT LOCATION
 AND SITE ACCESS**

SHEET NUMBER:
3.1

City of Madison
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PROJECT:

**2020 PLAYGROUND
 IMPROVEMENTS -
 GROUP 1**

PROJECT ADDRESS:

**WINGRA PARK
 824 KNICKERBOCKER ST.
 MADISON, WI 53711**

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ADVERTISED TO BID	2020-04-09

PUBLIC WORKS PROJECT #:
8849

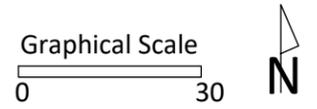
SHEET TITLE:
EXISTING CONDITIONS

SHEET NUMBER:
3.2



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PROJECT:
**2020 PLAYGROUND
 IMPROVEMENTS -
 GROUP 1**

PROJECT ADDRESS:
**WINGRA PARK
 824 KNICKERBOCKER ST.
 MADISON, WI 53711**

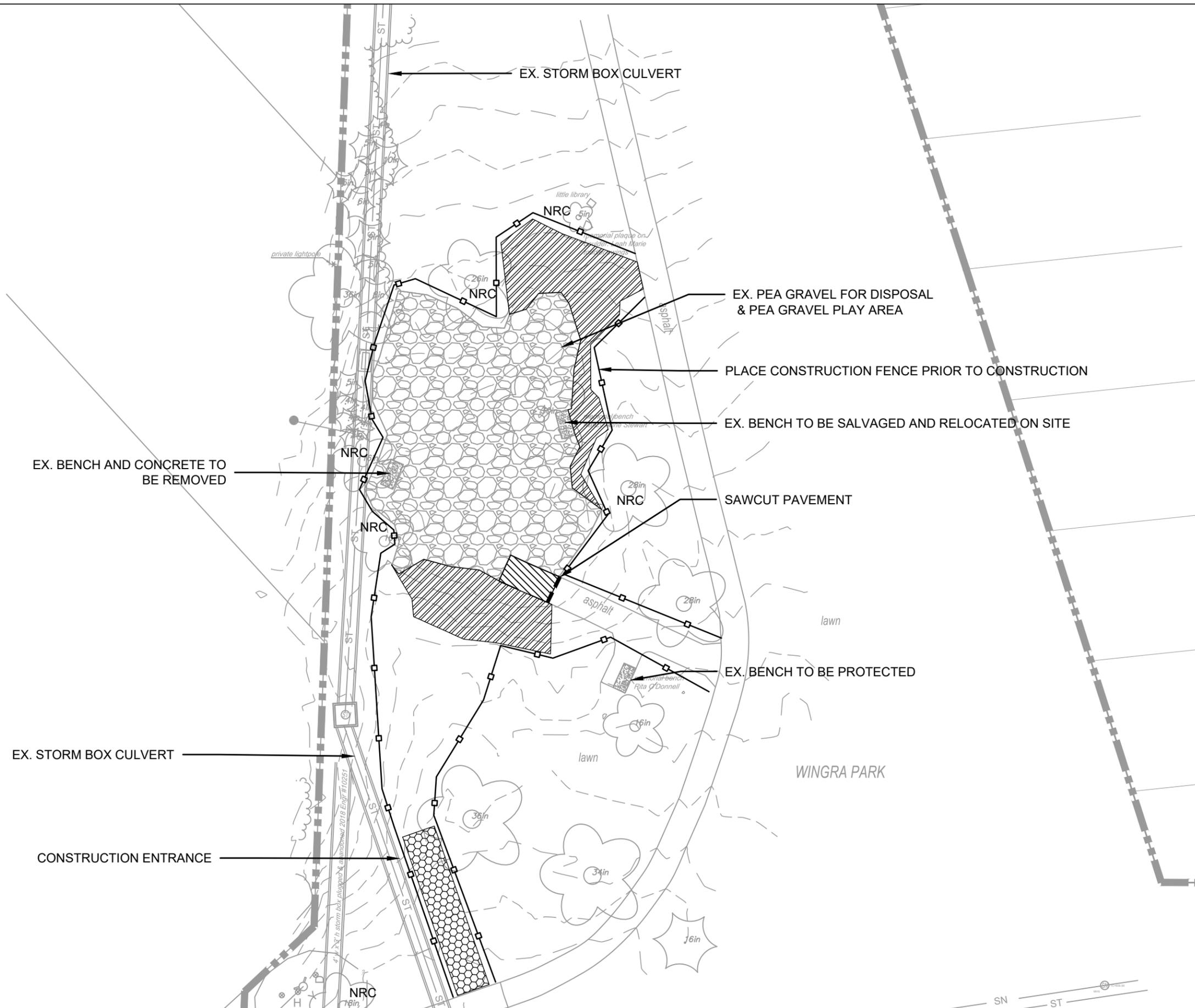
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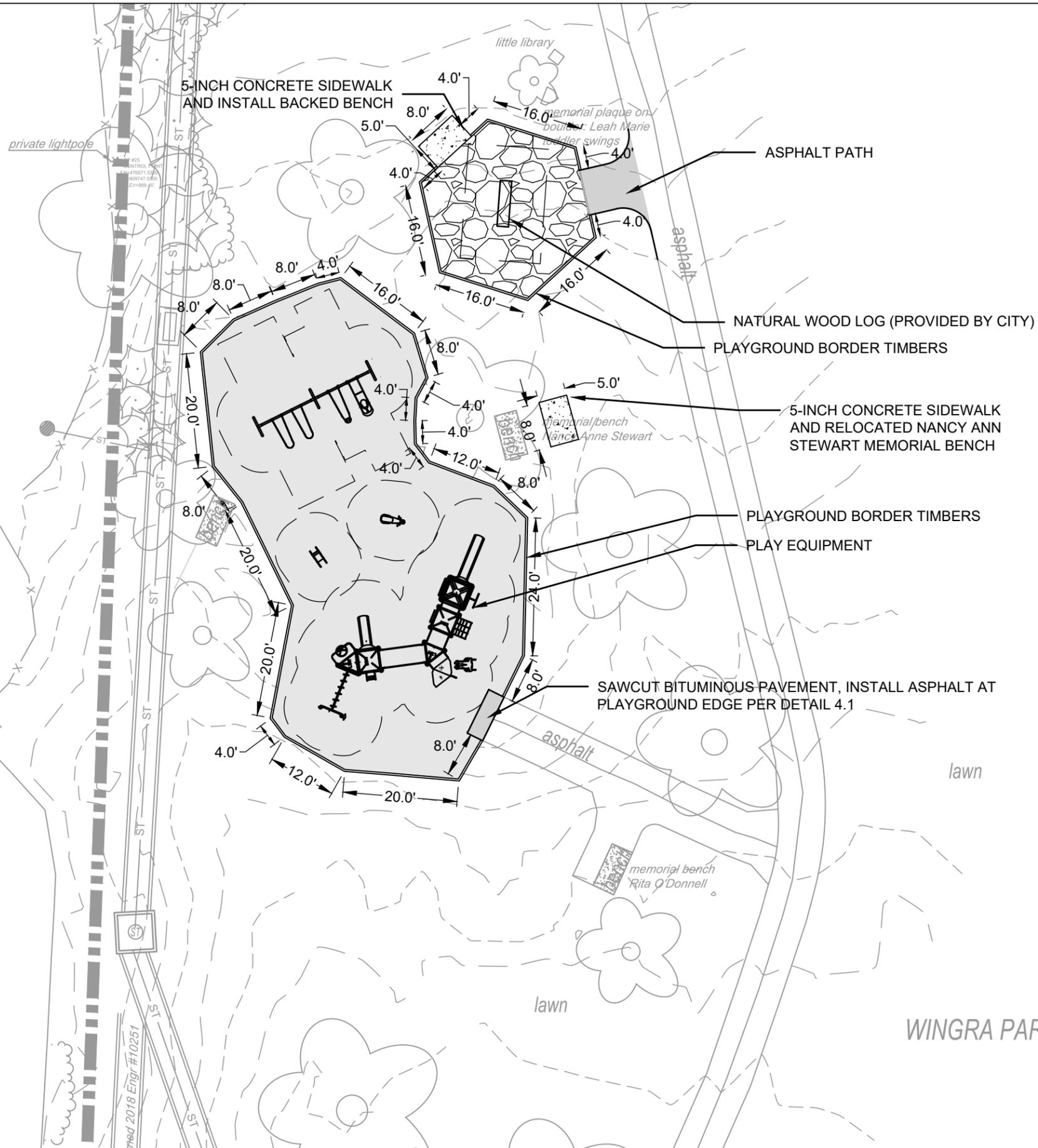
ITEM	DATE
ADVERTISED TO BID	2020-04-09

PUBLIC WORKS PROJECT #:
8849

SHEET TITLE:
**DEMOLITION AND
 PROTECTION PLAN**

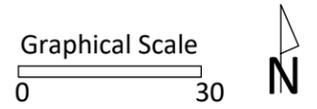
SHEET NUMBER:
3.3





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PROJECT:
**2020 PLAYGROUND
 IMPROVEMENTS -
 GROUP 1**

PROJECT ADDRESS:
**WINGRA PARK
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ITEM	DATE
ADVERTISED TO BID	2020-04-09

PUBLIC WORKS PROJECT #:
8849

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
3.4

Sort	Grp	Material	Item	From Surface Model	To Surface Model	area (sq ft)	depth (ft)	Unfactored volume (cu ft)	Unfactored volume (cu yd)	Expansion Factor (%)	Factored (Uncompacted) Volume (cu yd)
1.1	Grass to Grass	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	852.19	0.50	426.10	15.8	0%	15.8
1.2	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	852.19	varies	43.75	1.6	0%	1.6
1.3	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	852.19	varies	-220.45	-8.2	0%	-8.2
1.4	Grass to Grass	Topsoil Place	Place 6" topsoil	n/a	n/a	852.19	-0.50	-426.10	-15.8	0%	-15.8
2.1	Grass to 5-inch Concrete	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	80.00	0.50	40.00	1.5	0%	1.5
2.2	Grass to 5-inch Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-8inch	80.00	varies	21.13	0.8	0%	0.8
2.3	Grass to 5-inch Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-8inch	80.00	varies	-0.36	0.0	0%	0.0
2.4	Grass to 5-inch Concrete	Concrete Place	Place 5" of concrete	n/a	n/a	80.00	-0.41	-32.80	-1.2	0%	-1.2
2.5	Grass to 5-inch Concrete	Gravel Place (Concrete)	Place 3" of gravel	n/a	n/a	80.00	-0.25	-20.00	-0.7	0%	-0.7
3.1	Grass to play surface	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	414.38	0.50	207.19	7.7	0%	7.7
3.2	Grass to play surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-14 inch	414.38	varies	87.25	3.2	0%	3.2
3.3	Grass to play surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-14 inch	414.38	varies	-48.94	-1.8	0%	-1.8
3.4	Grass to play surface	Play Surface Place (Wood Mulch)	Place 14" of wood mulch	n/a	n/a	414.38	-1.17	-483.44	-17.9	0%	-17.9
4.1	Grass to play surface (pea gravel)	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	445.94	0.50	222.97	8.3	0%	8.3
4.2	Grass to play surface (pea gravel)	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-14 inch	445.94	varies	291.47	10.8	0%	10.8
4.3	Grass to play surface (pea gravel)	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-14 inch	445.94	varies	0.00	0.0	0%	0.0
4.4	Grass to play surface (pea gravel)	Pea gravel place	Place 14" of pea gravel	n/a	n/a	445.94	-1.17	-520.26	-19.3	0%	-19.3
5.1	Grass to Asphalt	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	84.72	0.50	42.36	1.6	0%	1.6
5.2	Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	84.72	varies	41.26	1.5	0%	1.5
5.3	Grass to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	84.72	varies	0.00	0.0	0%	0.0
5.4	Grass to Asphalt	Gravel Place (pavement)	Place 9" of gravel	n/a	n/a	84.72	-0.75	-63.54	-2.4	0%	-2.4
5.5	Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	84.72	-0.25	-21.18	-0.8	0%	-0.8
6.1	Grass to Timbers	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	39.24	0.50	19.62	0.7	0%	0.7
6.2	Grass to Timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	39.24	varies	10.18	0.4	0%	0.4
6.3	Grass to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	39.24	varies	-10.54	-0.4	0%	-0.4
6.4	Grass to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	na	39.24	-1.00	-39.24	-1.5	0%	-1.5

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Department of Public Works
PARKS DIVISION
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PROJECT:

*2020 PLAYGROUND
IMPROVEMENTS -
GROUP 1*

PROJECT ADDRESS:

*WINGRA PARK
824 KNICKERBOCKER ST.
MADISON, WI 53711*

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ITEM	DATE
ADVERTISED TO BID	2020-04-09

PUBLIC WORKS PROJECT #:
8849

SHEET TITLE:
**DESIGN
COMPUTATIONS**

SHEET NUMBER:
3.6

Sort	Grp	Material	Item	From Surface Model	To Surface Model	area (sq ft)	depth (ft)	Unfac-tored volume (cu ft)	Unfac-tored volume (cu yd)	Expans-ion Factor (%)	Factored (Uncom-pacted) Volume (cu yd)
7.1	Play surface to Grass	Play Surface Excavate	Remove existing play surface, estimated depth 17 in	n/a	n/a	1621.02	1.42	2296.45	85.1	0%	85.1
7.2	Play surface to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-6in	1621.02	varies	0.00	0.0	0%	0.0
7.3	Play surface to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-6in	1621.02	varies	-1390.10	-51.5	0%	-51.5
7.4	Play surface to Grass	Topsoil Place	Place 6" of topsoil	n/a	n/a	1621.02	-0.50	-810.51	-30.0	0%	-30.0
8.1	Play surface to play surface	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	2632.33	1.42	3729.13	138.1	0%	138.1
8.2	Play surface to play surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	2632.33	varies	88.34	3.3	0%	3.3
8.3	Play surface to play surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	2632.33	varies	-686.89	-25.4	0%	-25.4
8.4	Play surface to play surface	Play Surface Place (Wood Mulch)	Place 14in wood mulch play surface	n/a	n/a	2632.33	-1.17	-3079.83	-114.1	0%	-114.1
9.1	Play surface to play surface (pea gravel)	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	179.00	1.42	253.58	9.4	0%	9.4
9.2	Play surface to play surface (pea gravel)	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-14in	179.00	varies	0.00	0.0	0%	0.0
9.3	Play surface to play surface (pea gravel)	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-14in	179.00	varies	-154.94	-5.7	0%	-5.7
9.4	Play surface to play surface (pea gravel)	Pea gravel place	Place 14" of pea gravel	n/a	n/a	179.00	-1.17	-208.83	-7.7	0%	-7.7
10.1	Play surface to timbers	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	64.52	1.42	91.40	3.4	0%	3.4
10.2	Play surface to timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	64.52	varies	3.14	0.1	0%	0.1
10.3	Play surface to timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	64.52	varies	-28.03	-1.0	0%	-1.0
10.4	Play surface to timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	64.52	-1.00	-64.52	-2.4	0%	-2.4
11.1	Asphalt to Asphalt	Pavement Excavate	Strip 1' of Asphalt and Gravel	n/a	n/a	30.98	1.00	30.98	1.1	0%	1.1
11.2	Asphalt to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-1'	Pro-1'	30.98	varies	0.80	0.0	0%	0.0
11.3	Asphalt to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-1'	Pro-1'	30.98	varies	-1.17	0.0	0%	0.0
11.4	Asphalt to Asphalt	Gravel Place (pavement)	Place 9" of gravel	n/a	n/a	30.98	-0.75	-23.24	-0.9	0%	-0.9
11.5	Asphalt to Asphalt	Asphalt Place	Place 3" of asphalt	n/a	n/a	30.98	-0.25	-7.75	-0.3	0%	-0.3
12.1	Place Surface	Pavement Excavate	Strip 1' of Asphalt and Gravel	n/a	n/a	111.57	1.00	111.57	4.1	0%	4.1
12.2	Place Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-1'	Pro-12inch	111.57	varies	31.38	1.2	0%	1.2
12.3	Place Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-1'	Pro-12inch	111.57	varies	-0.10	0.0	0%	0.0
12.4	Place Surface	Play Surface Place (Wood Mulch)	Place 14in wood mulch play surface	n/a	n/a	111.57	-1.17	-130.54	-4.8	0%	-4.8
13.1	5" Concrete to Grass	Concrete Excavate	Remove 5" of concrete and 3" of gravel	n/a	n/a	62.37	0.66	41.16	1.5	0%	1.5
13.2	5" Concrete to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex- 8in	Pro-6in	62.37	varies	0.00	0.0	0%	0.0
13.3	5" Concrete to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex- 8in	Pro-6in	62.37	varies	-16.07	-0.6	0%	-0.6
13.4	5" Concrete to Grass	Topsoil Place	Place 8" of concrete	n/a	n/a	62.37	-0.50	-31.19	-1.2	0%	-1.2
14	Adjust	Play Surface Place (Wood Mulch)	Increase play surface by 1/2 of asphalt ramp gravel base volume = 1/2 x (2.25 ft x 9 ft x 7 in)	n/a	n/a	31	-0.29	-9	-0.3	0%	-0.3

Row Labels	Sum of Factored (Uncompacted) Volume (cu yd)
Asphalt Place	-1.1
Subsoil Excavate	22.9
Subsoil Place	-94.7
Topsoil Excavate	35.5
Topsoil Place	-47.0
Concrete Place	-1.2
Pavement Excavate	5.3
Gravel Place (Concrete)	-0.7
Play Surface Place (Wood Mulch)	-136.8
Gravel Place (pavement)	-3.2
Border Timbers Place (placeholder volume)	-3.8
Play Surface Excavate	150.9
Concrete Excavate	1.5
Play Surface Excavate	85.1
Pea gravel place	-27.0
Grand Total	-14.4

Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	65	CY	= Subsoil Excavate + Topsoil Excavate + Pavement Excavate + Concrete Excavate
20103 Excavation Cut - Pea Gravel	151	CY	= Play Surface Excavate
20202 Fill - Borrow	72	CY	= Subsoil Excavate + Subsoil Place
20221 Topsoil	281	SY	= (Topsoil Place)/-. 167
40102 Crushed Aggregate Base Course Gradation No. 2	6	tons	= ((Gravel Place) pavement) * -2 ton/cubic yard
40202 HMA Pavement 4 LT 58-28 S	2.3	tons	= Asphalt Place * -2.16 ton/cubic yard
90003 Playground Surfacing - Wood Fiber Mulch	164.2	CY	= Play Surface Place (Wood Mulch * -1.2)
90004 Playground Surfacing - Pea Gravel	27	CY	= Pea gravel place

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PROJECT:
2020 PLAYGROUND IMPROVEMENTS - GROUP 1

PROJECT ADDRESS:
**WINGRA PARK
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MADISON, WI 53711**

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ITEM DATE
ADVERTISED TO BID 2020-04-09

PUBLIC WORKS PROJECT #:
8849

SHEET TITLE:
DESIGN COMPUTATIONS

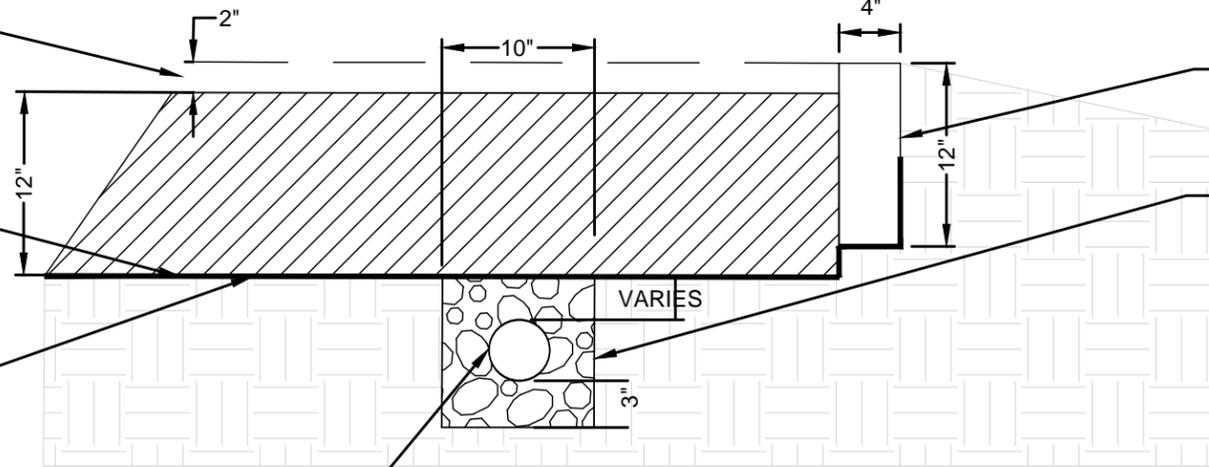
SHEET NUMBER:
3.7

ENGINEERED WOOD FIBER INSTALLED AT PLAYGROUND TIMBER HEIGHT TO ACCOMMODATE COMPACTION. FINAL PLAYGROUND SURFACE SHOULD BE SET AT 2" BELOW TIMBER HEIGHT.

GEOTEXTILE FABRIC TYPE SAS NON WOVEN (MIN. 4 OZ/SY)

PLAYGROUND SUBGRADE - MIN. 12" FROM PLAYGROUND SURFACE FINISHED GRADE

4-INCH PERFORATED PVC DRAIN PIPE WITH SOCK



PLAYGROUND BORDER TIMBER

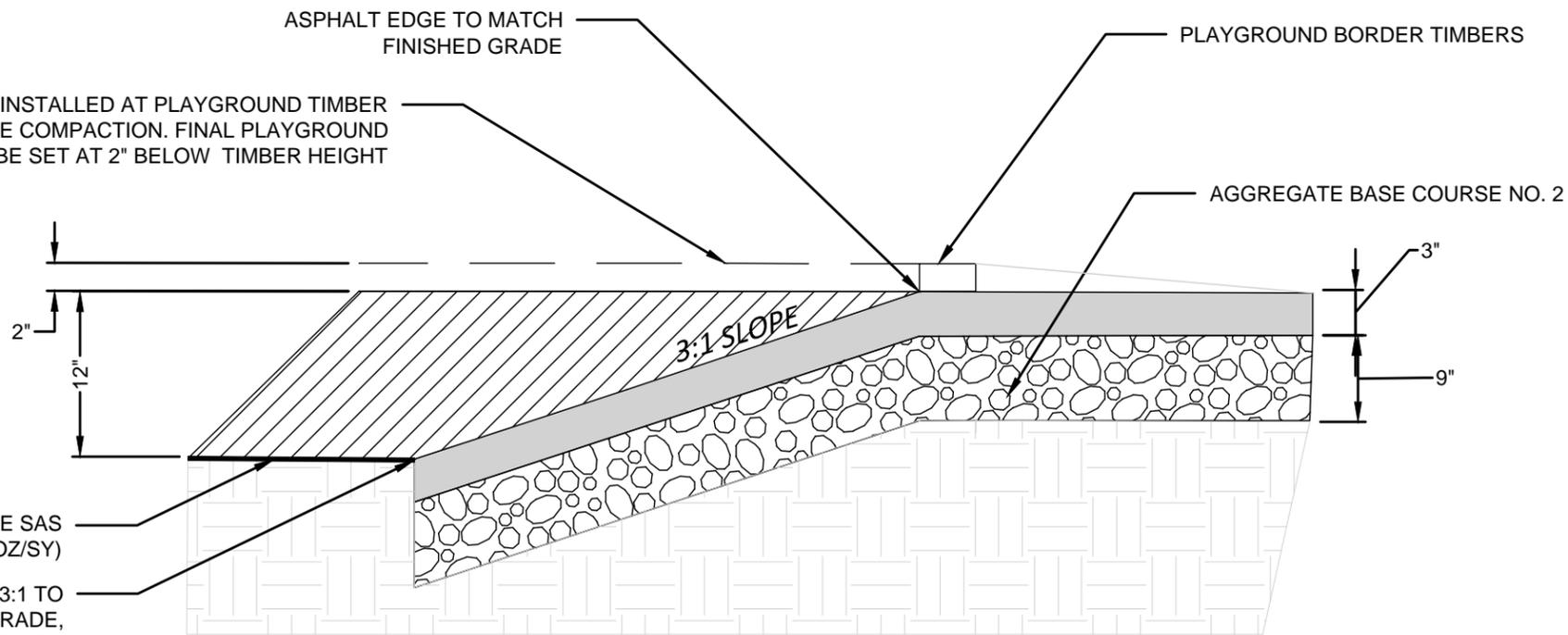
OPEN GRADED BASE COURSE WI DOT GRADATION NO. 2 AS SPECIFIED IN SECTION 501.2.5.4.4 OF WISCONSIN DOT STANDARD SPECIFICATIONS

1
4.1
PLAYGROUND SURFACING WITH UNDERDRAIN
NOT TO SCALE

ENGINEERED WOOD FIBER INSTALLED AT PLAYGROUND TIMBER HEIGHT TO ACCOMMODATE COMPACTION. FINAL PLAYGROUND SURFACE SHOULD BE SET AT 2" BELOW TIMBER HEIGHT

GEOTEXTILE FABRIC TYPE SAS NO WOVEN (MIN. 4 OZ/SY)

SLOPE ASPHALT AT 3:1 TO MEET PROPOSED SUBGRADE, UNLESS OTHERWISE SPECIFIED ON PLANS



ASPHALT EDGE TO MATCH FINISHED GRADE

PLAYGROUND BORDER TIMBERS

AGGREGATE BASE COURSE NO. 2

2
4.1
ASPHALT AT PLAYGROUND EDGE
NOT TO SCALE

City of Madison
Department of Public Works
PARKS DIVISION
City-County Building, Suite 104
210 Martin Luther King, Jr. Blvd.
Madison, WI 53703

play
MADISON
PARKS

PROJECT:

**2020 PLAYGROUND
IMPROVEMENTS -
GROUP 1**

PROJECT ADDRESS:

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ITEM	DATE
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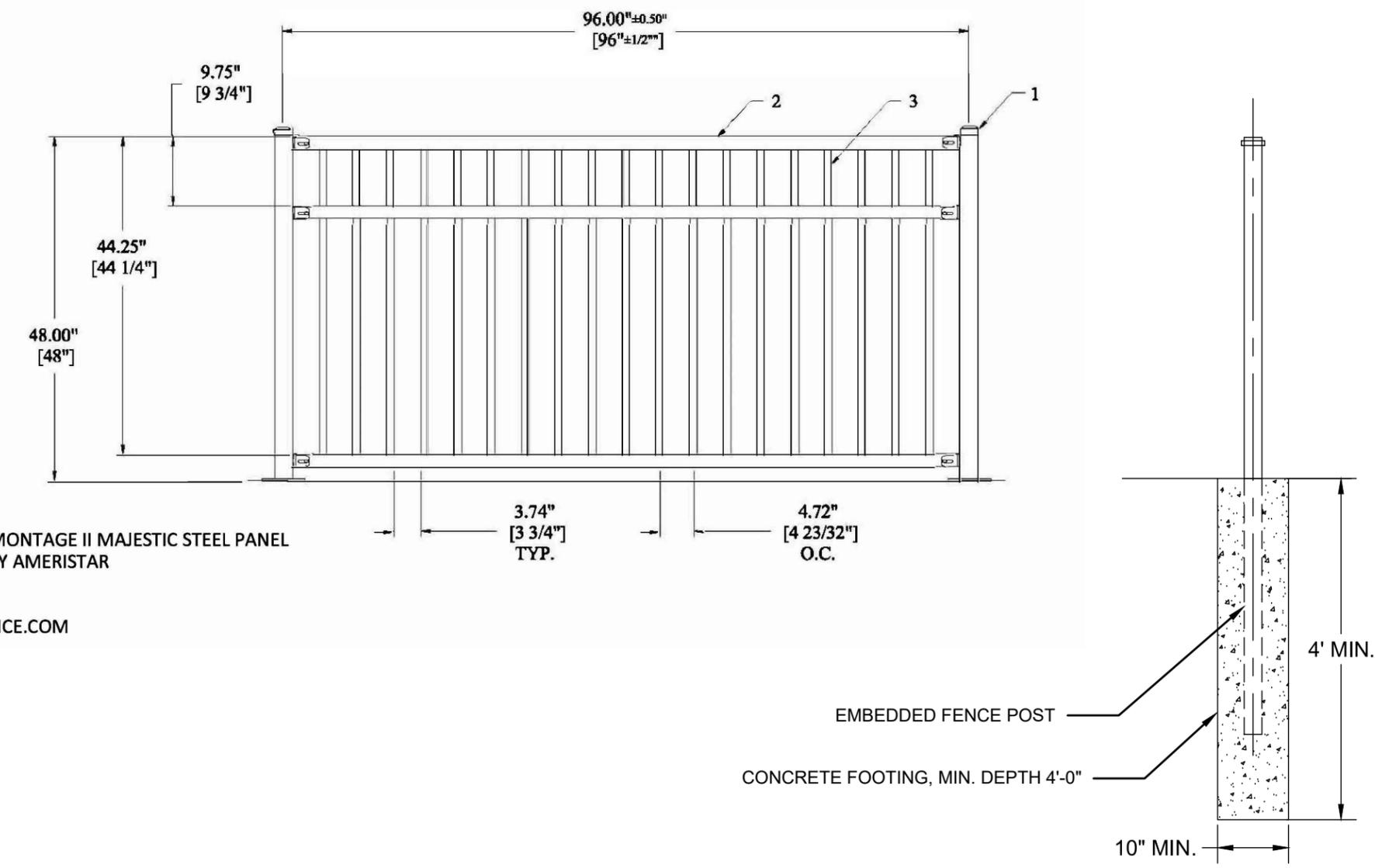
PUBLIC WORKS PROJECT #:
8849

SHEET TITLE:
**DETAILS -
PLAYGROUND &
PAVEMENT EDGE**

SHEET NUMBER:

4.1

- DESCRIPTION:
1. 2 1/2" SQ. POST
 2. 1 3/4" SQ. X 12 GA. CHANNEL RAIL
 3. 1" SQ. X 14GA. PICKET
 4. BASE PLATE
BX301 BRACKET



NOTE:
 PRODUCT SHOWN IS MONTAGE II MAJESTIC STEEL PANEL
 AS MANUFACTURED BY AMERISTAR
 1555 N. MINGO
 TULSA, OK 74116
 WWW.AMERISTARFENCE.COM

City of Madison
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PARKS DIVISION
 City-County Building, Suite 104
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 Madison, WI 53703



PROJECT:
**2020 PLAYGROUND
 IMPROVEMENTS -
 GROUP 1**

PROJECT ADDRESS:
**HILLINGTON GREEN
 435 HILLINGTON WAY
 MADISON, WI 53726**

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ITEM	DATE
ADVERTISED TO BID	2020-04-09

PUBLIC WORKS PROJECT #:
8849

SHEET TITLE:
**DETAILS -
 ORNAMENTAL METAL
 FENCING**

SHEET NUMBER:
4.2