

SHEET SCHEDULE

- 1.1 DONCASTER PARK - PROJECT LOCATION AND SITE ACCESS
- 1.2 DONCASTER PARK - DEMOLITION AND PROTECTION PLAN
- 1.3 DONCASTER PARK - SITE PLAN
- 1.4 DONCASTER PARK - GRADING AND EROSION CONTROL PLAN
- 1.5 DONCASTER PARK - DESIGN CALCULATIONS

- 2.1 LUCIA CREST PARK - PROJECT LOCATION AND SITE ACCESS
- 2.2 LUCIA CREST PARK - DEMOLITION AND PROTECTION PLAN
- 2.3 LUCIA CREST PARK - SITE PLAN
- 2.4 LUCIA CREST PARK - GRADING AND EROSION CONTROL PLAN
- 2.5 LUCIA CREST PARK - DESIGN CALCULATIONS

- 3.1 SEGOE PARK - PROJECT LOCATION AND SITE ACCESS
- 3.2 SEGOE PARK - DEMOLITION AND PROTECTION PLAN
- 3.3 SEGOE PARK - SITE PLAN
- 3.4 SEGOE PARK - GRADING AND EROSION CONTROL PLAN
- 3.5 SEGOE PARK - DESIGN CALCULATIONS

SHEET SCHEDULE, CONT.

- 4.1 WILLIAM SLATER PARK - PROJECT LOCATION AND SITE ACCESS
- 4.2 WILLIAM SLATER PARK - DEMOLITION AND PROTECTION PLAN
- 4.3 WILLIAM SLATER PARK - SITE PLAN
- 4.4 WILLIAM SLATER PARK - GRADING AND EROSION CONTROL PLAN
- 4.5 WILLIAM SLATER PARK - DESIGN CALCULATIONS

- 5.1 WALNUT GROVE PARK - PROJECT LOCATION AND SITE ACCESS
- 5.2 WALNUT GROVE PARK - DEMOLITION AND PROTECTION PLAN
- 5.3 WALNUT GROVE PARK - SITE PLAN
- 5.4 WALNUT GROVE PARK - GRADING AND EROSION CONTROL PLAN
- 5.5 WALNUT GROVE PARK - DESIGN CALCULATIONS

- 6.1 TYPICAL PLAYGROUND SURFACING WITH UNDERDRAIN
- 6.2 ASPHALT EDGE AT PLAYGROUND
- 6.3 MODULAR BLOCK RETAINING WALL
- 6.4 MODULAR BLOCK SANDBOX



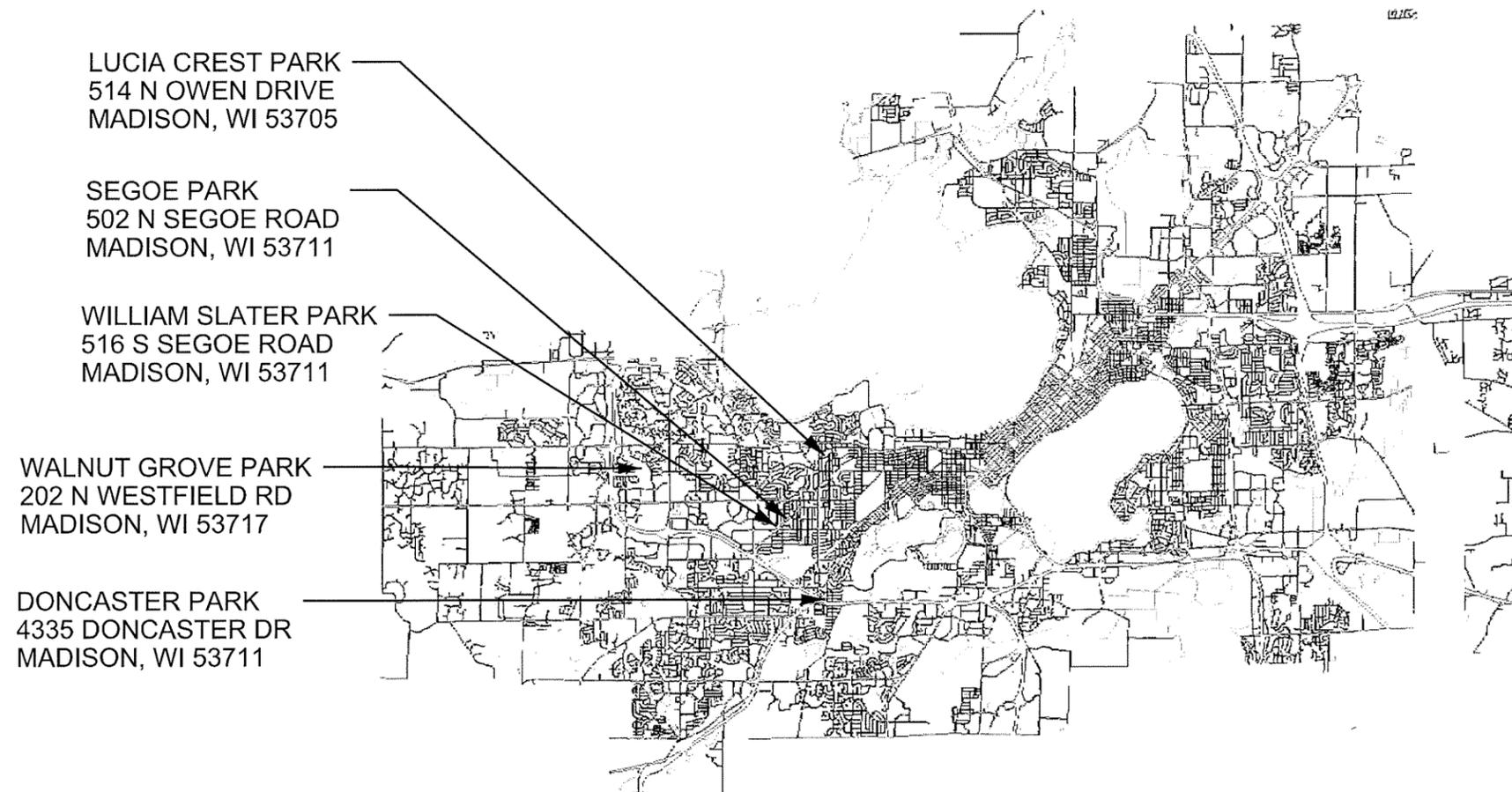
City of Madison
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PARKS DIVISION
 City-County Building, Suite 104
 210 Martin Luther King, Jr. Blvd.
 Madison, WI 53703

play
**MADISON
 PARKS**



2019 PLAYGROUND REPLACEMENTS - GROUP 1 CONTRACT 9414

MUNIS NOS. 17525-51-130; 17528-51-130; 17530-51-130; 17534-51-130; 17533-51-130



PROJECT:

*2019
 PLAYGROUND
 REPLACEMENTS-
 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 by: KK	04-11-2019

PUBLIC WORKS PROJECT #:
9414

SHEET TITLE:

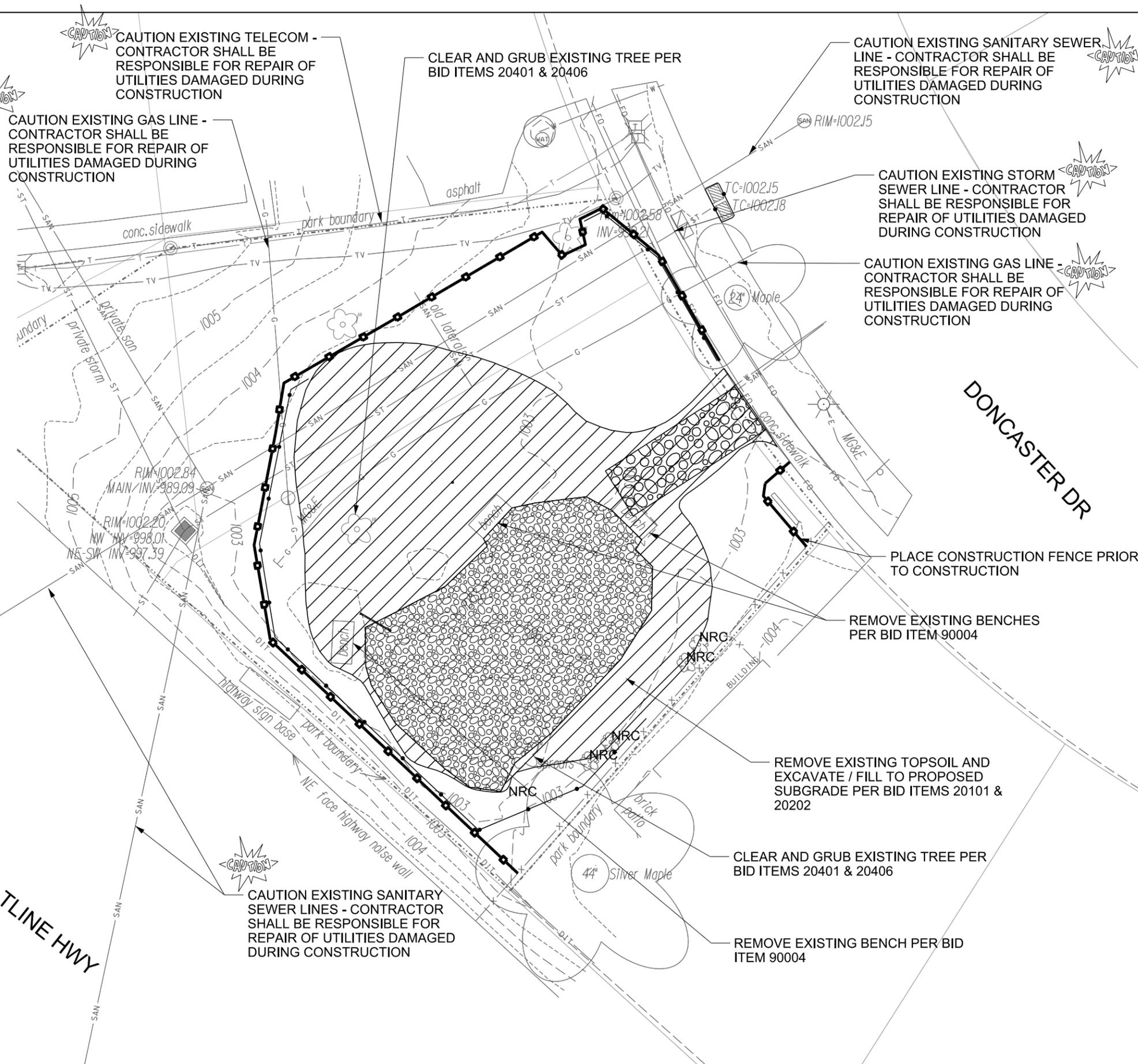
SHEET NUMBER:

LEGEND

-  REMOVE EX. PEA GRAVEL
-  REMOVE EX. LAWN
-  PRO. CONSTRUCTION ENTRANCE
-  PRO. CONSTRUCTION FENCE
-  PRO. SILT SOCK
-  NO ROOT CUT PER BID ITEM 10803
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  EX. APPROX. PARK BOUNDARY

NOTES

1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



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MADISON
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Graphical Scale
 0 20 ft 

PROJECT:
2019
PLAYGROUND
REPLACEMENTS
- GROUP 1

DONCASTER PARK
4335 DONCASTER DR
MADISON, WI 53711

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
Advised:	04-11-2019
Drawn by: KK	01-22-2019

PUBLIC WORKS PROJECT #:
9414

SHEET TITLE:
DEMOLITION AND
PROTECTION PLAN

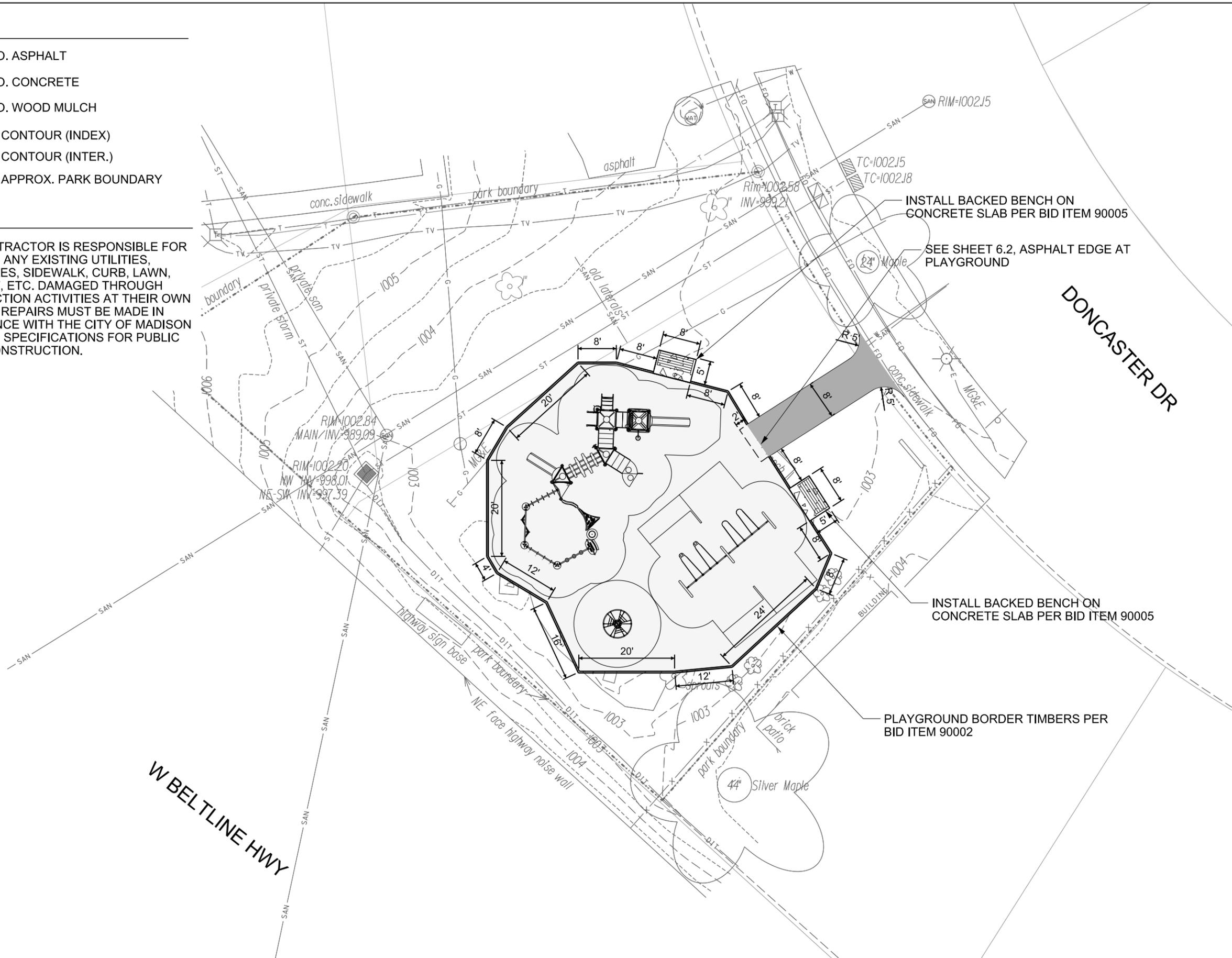
SHEET NUMBER:
1.2

LEGEND

- PRO. ASPHALT
- PRO. CONCRETE
- PRO. WOOD MULCH
- EX. CONTOUR (INDEX)
- - - EX. CONTOUR (INTER.)
- · - · - EX. APPROX. PARK BOUNDARY

NOTES

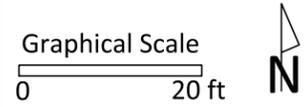
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PROJECT:
2019
PLAYGROUND
REPLACEMENTS
- GROUP 1

DONCASTER PARK
4335 DONCASTER DR
MADISON, WI 53711

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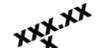
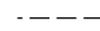
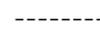
ITEM	DATE
Advised:	04-11-2019
Drawn by: KK	01-22-2019

PUBLIC WORKS PROJECT #:
9414

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
1.3

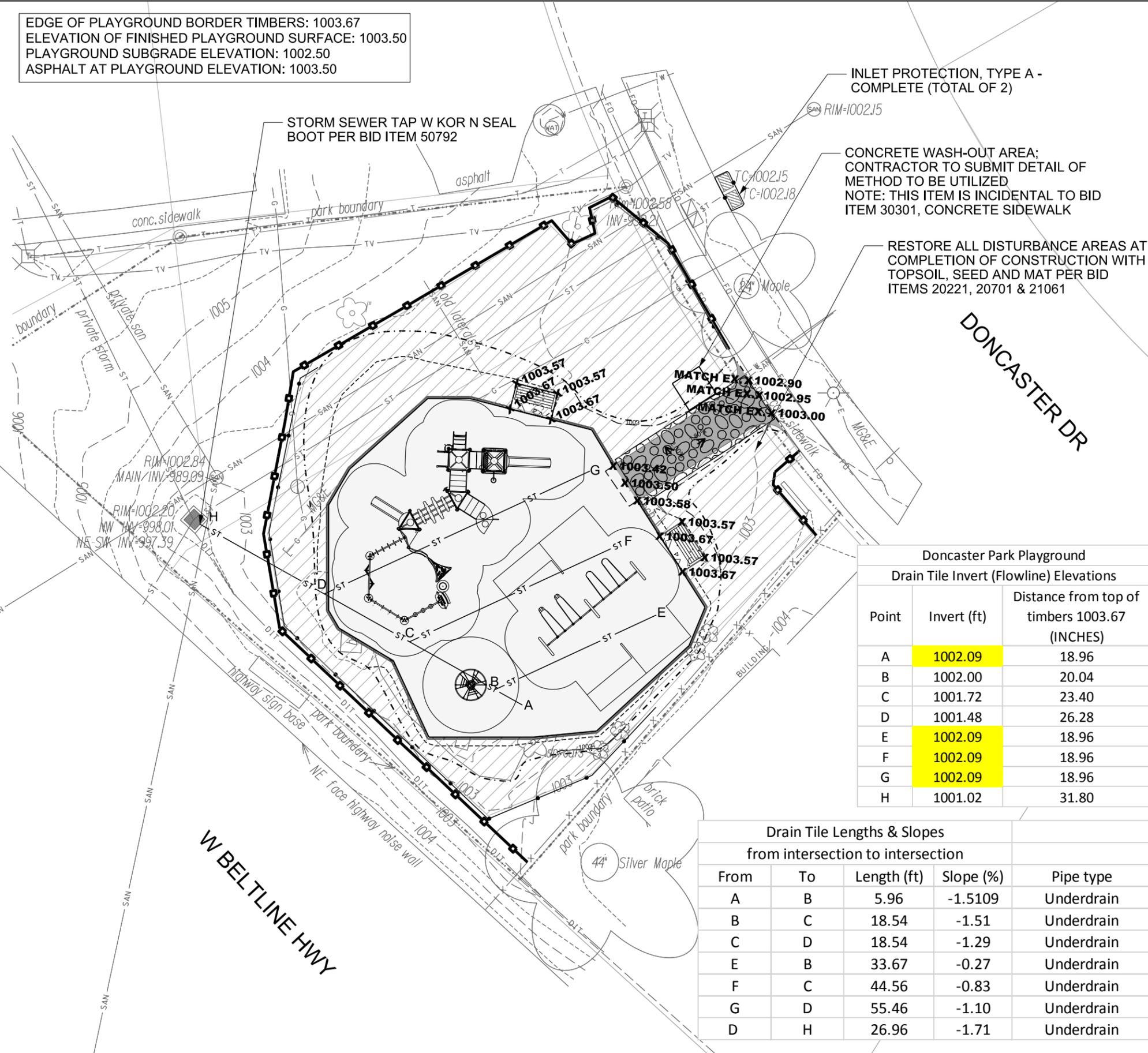
LEGEND

-  PRO. SPOT EL.
-  PRO. SLOPE
-  PRO. ASPHALT
-  PRO. WOOD MULCH
-  PRO. EROSION MATTING
-  PRO. CONSTRUCTION ENTRANCE
-  PRO. GRADING EXTENTS
-  PRO. DRAINTILE UNDERDRAIN
-  PRO. CONSTRUCTION FENCE
-  PRO. SILT SOCK
-  PRO. CONTOUR (INDEX)
-  PRO. CONTOUR (INTER.)
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  EX. APPROX. PARK BOUNDARY

EDGE OF PLAYGROUND BORDER TIMBERS: 1003.67
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 1003.50
 PLAYGROUND SUBGRADE ELEVATION: 1002.50
 ASPHALT AT PLAYGROUND ELEVATION: 1003.50

NOTES

- 1.) PLACE 4 OZ. PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 6.1.
- 2.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS.



INLET PROTECTION, TYPE A - COMPLETE (TOTAL OF 2)

CONCRETE WASH-OUT AREA; CONTRACTOR TO SUBMIT DETAIL OF METHOD TO BE UTILIZED
 NOTE: THIS ITEM IS INCIDENTAL TO BID ITEM 30301, CONCRETE SIDEWALK

RESTORE ALL DISTURBANCE AREAS AT COMPLETION OF CONSTRUCTION WITH TOPSOIL, SEED AND MAT PER BID ITEMS 20221, 20701 & 21061

Doncaster Park Playground Drain Tile Invert (Flowline) Elevations		
Point	Invert (ft)	Distance from top of timbers 1003.67 (INCHES)
A	1002.09	18.96
B	1002.00	20.04
C	1001.72	23.40
D	1001.48	26.28
E	1002.09	18.96
F	1002.09	18.96
G	1002.09	18.96
H	1001.02	31.80

Drain Tile Lengths & Slopes from intersection to intersection				
From	To	Length (ft)	Slope (%)	Pipe type
A	B	5.96	-1.5109	Underdrain
B	C	18.54	-1.51	Underdrain
C	D	18.54	-1.29	Underdrain
E	B	33.67	-0.27	Underdrain
F	C	44.56	-0.83	Underdrain
G	D	55.46	-1.10	Underdrain
D	H	26.96	-1.71	Underdrain

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MADISON PARKS



PROJECT:
2019 PLAYGROUND REPLACEMENTS - GROUP 1

DONCASTER PARK
 4335 DONCASTER DR
 MADISON, WI 53711

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ITEM	DATE
Advised:	04-11-2019
Drawn by: KK	01-22-2019

PUBLIC WORKS PROJECT #:
9414

SHEET TITLE:
GRADING AND EROSION CONTROL PLAN

SHEET NUMBER:
1.4

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)
Concrete to Asphalt	Concrete Excavate	Remove existing concrete, estimated depth 5in	n/a	n/a	5	0.42	2	0.1	0%	0.1
Concrete to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-5in	Pro-12in	5	varies	1	0.0	0%	0.0
Concrete to Asphalt	Gravel (for Pavement) Place	Place 9in gravel base out to 6in from pavement edge	n/a	n/a	5	-0.75	-4	-0.1	0%	-0.1
Concrete to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	5	-0.25	-1	0.0	0%	0.0
Concrete to Asphalt	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	5	-0.25	-1	0.0	0%	0.0
Concrete to Grass	Concrete Excavate	Remove existing concrete, estimated depth 5in	n/a	n/a	24	0.42	10	0.4	0%	0.4
Concrete to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-5in	Pro-6in	24	varies	4	0.2	0%	0.2
Concrete to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-5in	Pro-6in	24	varies	-4	-0.2	0%	-0.2
Concrete to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	24	-0.50	-12	-0.4	0%	-0.4
Concrete to Play Surface	Concrete Excavate	Remove existing concrete, estimated depth 5in	n/a	n/a	60	0.42	25	0.9	0%	0.9
Concrete to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-5in	Pro-12in	60	varies	35	1.3	0%	1.3
Concrete to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-5in	Pro-12in	60	varies	0	0.0	0%	0.0
Concrete to Play Surface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	60	-1.00	-60	-2.2	0%	-2.2
Concrete to Timbers	Concrete Excavate	Remove existing concrete, estimated depth 5in	n/a	n/a	3	0.50	2	0.1	0%	0.1
Concrete to Timbers	Subsoil Place	Cut subsoil to proposed subgrade	Ex-5in	Pro-12in	3	varies	2	0.1	0%	0.1
Concrete to Timbers	Subsoil Excavate	Fill subsoil to proposed subgrade	Ex-5in	Pro-12in	3	varies	0	0.0	0%	0.0
Concrete to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	3	-1.00	-3	-0.1	0%	-0.1
Grass to Asphalt	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	273	0.50	136	5.1	0%	5.1
Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	273	varies	46	1.7	0%	1.7
Grass to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	273	varies	-3	-0.1	0%	-0.1
Grass to Asphalt	Gravel (for Pavement) Place	Place 9in gravel base out to 6in from pavement edge	n/a	n/a	273	-0.75	-205	-7.6	0%	-7.6
Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	238	-0.25	-59	-2.2	0%	-2.2
Grass to Asphalt	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	35	-0.25	-9	-0.3	0%	-0.3
Grass to Concrete	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	107	0.50	54	2.0	0%	2.0
Grass to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-11in	107	varies	851	31.5	0%	31.5
Grass to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-11in	107	varies	-54	-2.0	0%	-2.0
Grass to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	107	-0.50	-54	-2.0	0%	-2.0
Grass to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	80	-0.42	-33	-1.2	0%	-1.2
Grass to Concrete	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	27	-0.25	-7	-0.3	0%	-0.3

Grass to Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	5202	0.50	2601	96.3	0%	96.3
Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	5202	varies	28	1.0	0%	1.0
Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	5202	varies	-1956	-72.4	0%	-72.4
Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	5202	-0.50	-2601	-96.3	0%	-96.3
Grass to Play Surface	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	1540	0.50	770	28.5	0%	28.5
Grass to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	1540	varies	523	19.4	0%	19.4
Grass to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	1540	varies	0	0.0	0%	0.0
Grass to Play Surface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	1540	-1.00	-1540	-57.0	0%	-57.0
Grass to Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	49	0.50	24	0.9	0%	0.9
Grass to Timbers	Subsoil Place	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	49	varies	10	0.4	0%	0.4
Grass to Timbers	Subsoil Excavate	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	49	varies	-1	0.0	0%	0.0
Grass to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	49	-1.00	-49	-1.8	0%	-1.8
Play Surface to Grass	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	124	1.42	176	6.5	0%	6.5
Play Surface to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-6in	124	varies	0	0.0	0%	0.0
Play Surface to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-6in	124	varies	-138	-5.1	0%	-5.1
Play Surface to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	124	-0.50	-62	-2.3	0%	-2.3
Play Surface to Play Surface	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	1697	1.42	2404	89.0	0%	89.0
Play Surface to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	1697	varies	0	0.0	0%	0.0
Play Surface to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	1697	varies	-1309	-48.5	0%	-48.5
Play Surface to Play Surface	Play Surface Place	Place 12in rubber mulch play surface	n/a	n/a	1697	-1.00	-1697	-62.9	0%	-62.9
Play Surface to Timbers	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	13	1.42	19	0.7	0%	0.7
Play Surface to Timbers	Subsoil Place	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	13	varies	0	0.0	0%	0.0
Play Surface to Timbers	Subsoil Excavate	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	13	varies	-11	-0.4	0%	-0.4
Play Surface to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	13	-1.00	-13	-0.5	0%	-0.5

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	187	CY	= Subsoil Excavate + Topsoil Excavate
20103 Excavation Cut - Pea Gravel	96	CY	= Play Surface Excavate
20202 Fill Borrow	73	CY	= Subsoil Excavate + Subsoil Place
20221 Topsoil	597	SY	= (Topsoil Place)/- .167
40201 HMA Pavement 3 LT 58-28 S	5	TONS	= Asphalt Place * - 2.16 ton/cubic yard
40102 Crushed Aggregate Base Course Gradation No. 2	19	tons	= (Gravel for Pavement Place) * - 2 ton/cubic yard
90003 Playground Surfacing - Wood Mulch	138	CY	= Play Surface Place * -1.10

Doncaster Park Playground - Earthwork Quantities	
City of Madison, WI Public Works Contract	9414
Date Revised:	2/19/2019
Derived from more detailed spreadsheet available from Parks Div	
Computation Summary	
Positive volumes are cuts (material available), negative volumes are fills (material needed)	
Row Labels	Sum of Unfactored volume (cu yd)
Asphalt Place	-2.3
Border Timbers Place (placeholder volume)	-2.4
Gravel (for Pavement) Place	-9.7
Play Surface Excavate	96.2
Play Surface Place	-122.1
Subsoil Excavate	54.7
Subsoil Place	-127.9
Topsoil Excavate	132.8
Topsoil Place	-99.7
Concrete Place	-1.2
Concrete Excavate	1.4
Grand Total	-80.1

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PROJECT:
**2019
PLAYGROUND
REPLACEMENTS
- GROUP 1**

**DONCASTER PARK
4335 DONCASTER DR
MADISON, WI 53711**

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ITEM	DATE
Advertised:	04-11-2019
Drawn by: KK	01-22-2019

PUBLIC WORKS PROJECT #:
9414

SHEET TITLE:
**DESIGN
CALCULATIONS**

SHEET NUMBER:
1.5

Lucia Crest Park



PROPOSED CONSTRUCTION FENCE, NO CONSTRUCTION OUTSIDE OF FENCE LIMITS

CONSTRUCTION ACCESS FROM N OWEN DRIVE. PROTECT EXISTING SURFACES (LAWN, CURB, SIDEWALK, PAVEMENT, ETC.) AND UTILITIES. REPAIR OF SURFACES AND UTILITIES IS INCIDENTAL TO THIS CONTRACT.

PROPOSED STAGING AREA WITHIN CONSTRUCTION FENCE LIMITS

EXISTING PLAY EQUIPMENT SHALL BE REMOVED BY CITY WITH THE EXCEPTION OF THE GAMETIME WHIRL, WHICH SHALL BE REMOVED AND RELOCATED BY CONTRACTOR AS INDICATED ON SHEET 2.3. EXISTING PEA GRAVEL SURFACING AND SANDBOX SHALL BE REMOVED BY CONTRACTOR.

*NO MANHOLE HERE
*NO MANHOLE HERE

CP #CP16
MAGNAIL ASPH
N=482048.4700
E=804347.0200
ELEV=891.8100

Approx location - 2 water valves 4 ft NW of drinking fountain

City of Madison
Department of Public Works
PARKS DIVISION

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play
**MADISON
PARKS**

Graphical Scale
0 30 ft



PROJECT:
*2019
PLAYGROUND
REPLACEMENTS
- GROUP 1*

*LUCIA CREST PARK
514 N OWEN DR
MADISON, WI 53705*

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Advertised:	DATE
Drawn by: KK	04-11-2019
	02-27-2019

PUBLIC WORKS PROJECT #:
9414

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

SHEET NUMBER:
2.1

City of Madison
 Department of Public Works
PARKS DIVISION

City-County Building, Suite 104
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play
MADISON
PARKS

Graphical Scale



PROJECT:
2019
PLAYGROUND
REPLACEMENTS
- GROUP 1

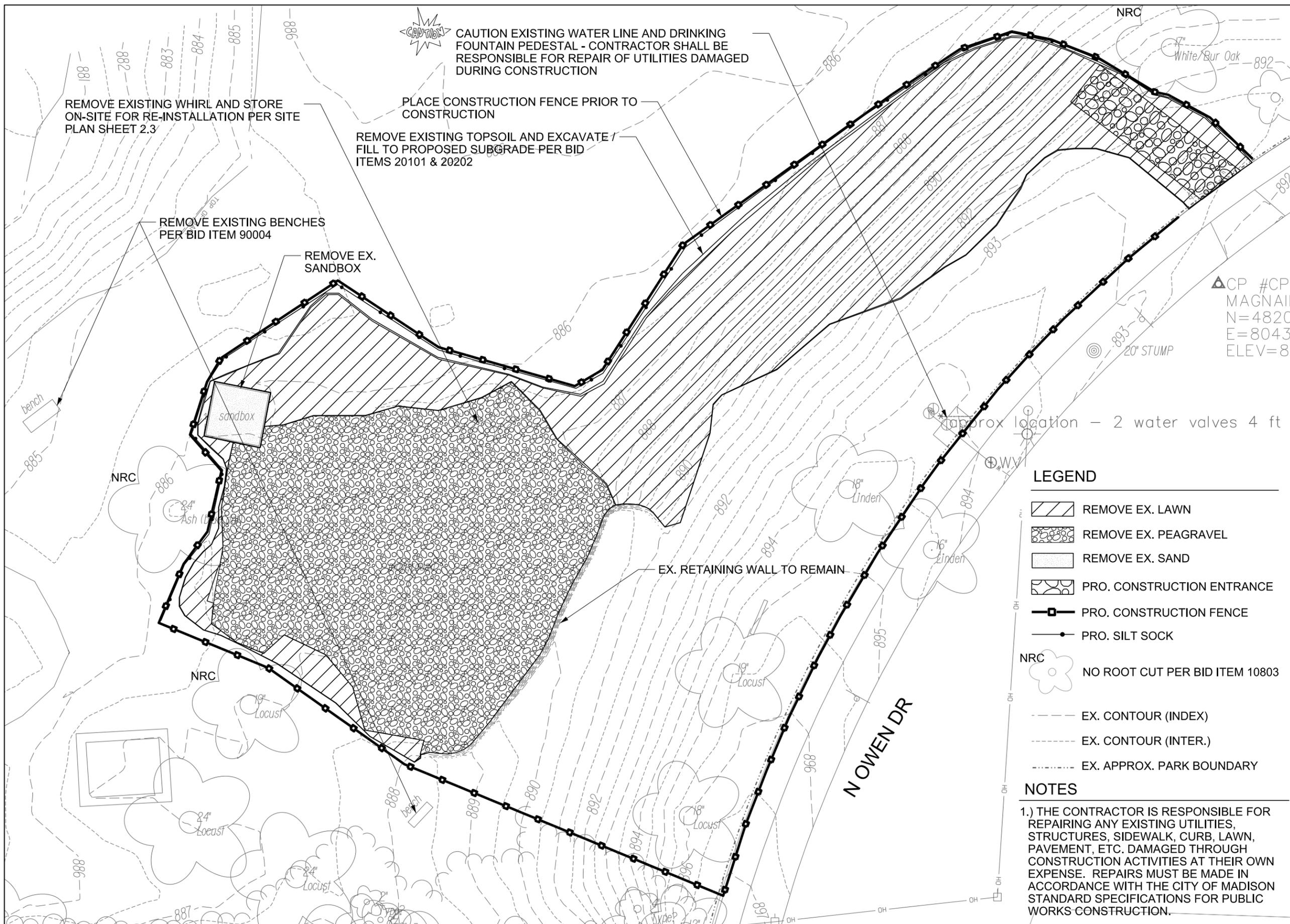
LUCIA CREST PARK
514 N OWEN DR
MADISON, WI 53705

LEGEND

- REMOVE EX. LAWN
- REMOVE EX. PEAGRAVEL
- REMOVE EX. SAND
- PRO. CONSTRUCTION ENTRANCE
- PRO. CONSTRUCTION FENCE
- PRO. SILT SOCK
- NRC NO ROOT CUT PER BID ITEM 10803
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)
- EX. APPROX. PARK BOUNDARY

NOTES

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PUBLIC WORKS PROJECT #:

9414

SHEET TITLE:

DEMOLITION AND PROTECTION PLAN

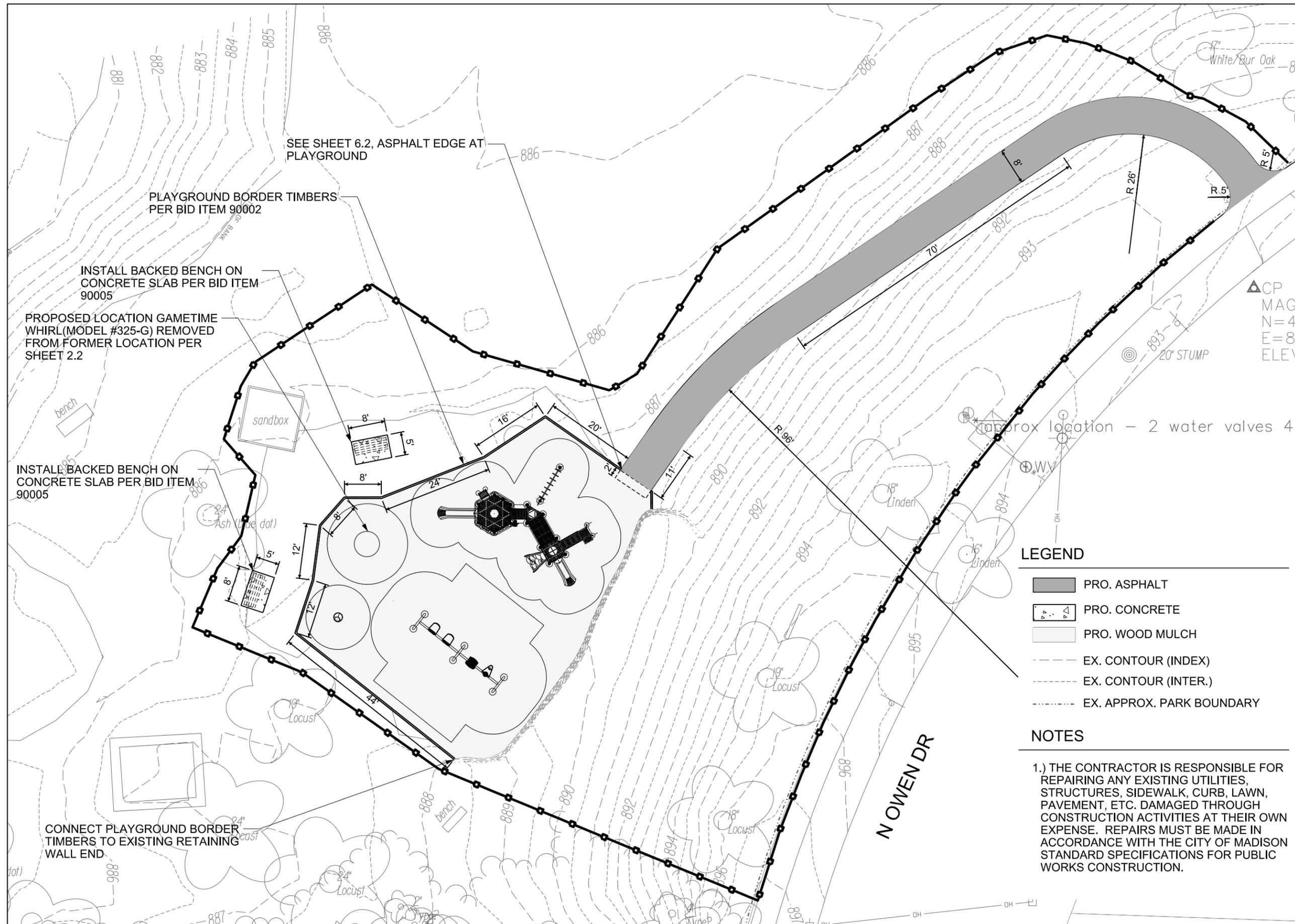
SHEET NUMBER:

2.2



PROJECT:
**2019
 PLAYGROUND
 REPLACEMENTS
 - GROUP 1**

**LUCIA CREST PARK
 514 N OWEN DR
 MADISON, WI 53705**



LEGEND

- PRO. ASPHALT
- PRO. CONCRETE
- PRO. WOOD MULCH
- EX. CONTOUR (INDEX)
- - - EX. CONTOUR (INTER.)
- · · EX. APPROX. PARK BOUNDARY

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ITEM	DATE
Advised:	04-11-2019
Drawn by: KK	2-27-2019

PUBLIC WORKS PROJECT #:
9414

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
2.3

EDGE OF PLAYGROUND BORDER TIMBERS: 887.67
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 887.50
 PLAYGROUND SUBGRADE ELEVATION: 886.50
 ASPHALT AT PLAYGROUND ELEVATION: 887.50

CONCRETE WASH-OUT AREA;
 CONTRACTOR TO SUBMIT DETAIL OF
 METHOD TO BE UTILIZED
 NOTE: THIS ITEM IS INCIDENTAL TO BID
 ITEM 30301, CONCRETE SIDEWALK

RESTORE ALL DISTURBANCE AREAS AT COMPLETION
 OF CONSTRUCTION WITH TOPSOIL, SEED AND MAT
 PER BID ITEMS 20221, 20701 & 21061

Lucia Crest Park Playground		
Drain Tile Invert (Flowline) Elevations		
Point	Invert (ft)	Distance from top of timbers 887.67 (INCHES)
A	885.92	21.00
B	885.79	22.56
C	885.67	24.00
D	885.92	21.00
E	885.92	21.00
F	885.40	27.24

Drain Tile Lengths & Slopes				
from intersection to intersection				
From	To	Length (ft)	Slope (%)	Pipe type
A	B	21.94	-0.5925	Underdrain
B	C	18.54	-0.65	Underdrain
D	B	20.67	-0.63	Underdrain
E	C	41.22	-0.61	Underdrain
C	F	48.22	-0.56	Underdrain

LEGEND

- PRO. SPOT EL.
- PRO. SLOPE
- PRO. ASPHALT
- PRO. WOOD MULCH
- PRO. EROSION MATTING
- PRO. CONSTRUCTION ENTRANCE
- PRO. GRADING EXTENTS
- PRO. DRAINTILE UNDERDRAIN
- PRO. CONSTRUCTION FENCE
- PRO. SILT SOCK
- PRO. CONTOUR (INDEX)
- PRO. CONTOUR (INTER.)
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)
- EX. APPROX. PARK BOUNDARY

NOTES

- 1.) PLACE 4 OZ. PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 6.1.
- 2.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS.

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

play
**MADISON
 PARKS**

Graphical Scale
 0 20 N

PROJECT:
**2019
 PLAYGROUND
 REPLACEMENTS
 - GROUP 1**

**LUCIA CREST PARK
 514 N OWEN DR
 MADISON, WI 53705**

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
Advised:	04-11-2019
Drawn by: KK	2-27-2019

PUBLIC WORKS PROJECT #:

9414

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

SHEET NUMBER:
2.4

Lucia Crest Park Playground - Earthwork Quantities
 City of Madison, WI Public Works Contract
 Date Revised: 2-21-2019

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.

Existing LuciaSurv2018-10-09.dtm
 Proposed Pro1.dtm
 Proposed

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)
Grass to Asphalt	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	1526	0.50	763	28.3	0%	28.3
Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	1526	varies	957	35.5	0%	35.5
Grass to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	1526	varies	-13	-0.5	0%	-0.5
Grass to Asphalt	Gravel (for Pavement) Place	Place 9in gravel base out to 6in from pavement edge	n/a	n/a	1526	-0.75	-1144	-42.4	0%	-42.4
Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	1348	-0.25	-337	-12.5	0%	-12.5
Grass to Asphalt	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	178	-0.25	-45	-1.6	0%	-1.6
Grass to Concrete	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	16	0.50	8	0.3	0%	0.3
Grass to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-11in	16	varies	15	0.6	0%	0.6
Grass to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-11in	16	varies	-1	0.0	0%	0.0
Grass to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	16	-0.50	-8	-0.3	0%	-0.3
Grass to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	9	-0.42	-4	-0.1	0%	-0.1
Grass to Concrete	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	7	-0.42	-3	-0.1	0%	-0.1
Grass to Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	8307	0.50	4153	153.8	0%	153.8
Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	8307	varies	1	0.0	0%	0.0
Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	8307	varies	-240	-8.9	0%	-8.9
Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	8307	-0.50	-4153	-153.8	0%	-153.8
Grass to Play Surface	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	63	0.50	31	1.2	0%	1.2
Grass to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	63	varies	102	3.8	0%	3.8
Grass to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	63	varies	0	0.0	0%	0.0
Grass to Play Surface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	63	-1.00	-63	-2.3	0%	-2.3
Grass to Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	12	0.50	6	0.2	0%	0.2
Grass to Timbers	Subsoil Place	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	12	varies	4	0.1	0%	0.1
Grass to Timbers	Subsoil Excavate	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	12	varies	-1	0.0	0%	0.0
Grass to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	12	-1.00	-12	-0.4	0%	-0.4
Play Surface to Concrete	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	101	1.42	143	5.3	0%	5.3
Play Surface to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-11in	101	varies	29	1.1	0%	1.1
Play Surface to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-11in	101	varies	-27	-1.0	0%	-1.0
Play Surface to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	101	-0.50	-50	-1.9	0%	-1.9
Play Surface to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	73	-0.42	-31	-1.1	0%	-1.1
Play Surface to Concrete	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	28	-0.42	-12	-0.4	0%	-0.4
Play Surface to Grass	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	1168	1.42	1655	61.3	0%	61.3
Play Surface to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-6in	1168	varies	229	8.5	0%	8.5
Play Surface to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-6in	1168	varies	-736	-27.2	0%	-27.2
Play Surface to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	1168	-0.50	-584	-21.6	0%	-21.6
Play Surface to Play Surface	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	3324	1.42	4709	174.4	0%	174.4
Play Surface to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	3324	varies	0	0.0	0%	0.0
Play Surface to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	3324	varies	-3180	-117.8	0%	-117.8
Play Surface to Play Surface	Play Surface Place	Place 12in rubber mulch play surface	n/a	n/a	3324	-1.00	-3324	-123.1	0%	-123.1
Play Surface to Timbers	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	38	1.42	54	2.0	0%	2.0
Play Surface to Timbers	Subsoil Place	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	38	varies	0	0.0	0%	0.0
Play Surface to Timbers	Subsoil Excavate	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	38	varies	-58	-2.1	0%	-2.1
Play Surface to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	38	-1.00	-38	-1.4	0%	-1.4
Sand to Grass	Play Surface Excavate	Remove existing sand play surface, estimated depth 17in	n/a	n/a	136	1.42	192	7.1	0%	7.1
Sand to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-6in	136	varies	68	2.5	0%	2.5
Sand to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-6in	136	varies	0	0.0	0%	0.0
Sand to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	136	-0.50	-68	-2.5	0%	-2.5

Lucia Crest Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract 9414
 Date Revised: 2/21/2019

Derived from more detailed spreadsheet available from Parks Div

Computation Summary

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

Row Labels	Sum of Unfactored volume (cu yd)
Asphalt Place	-12.5
Border Timbers Place (placeholder volume)	-1.9
Gravel (for Pavement) Place	-44.6
Play Surface Excavate	243.0
Play Surface Place	-125.4
Subsoil Excavate	47.3
Subsoil Place	-155.3
Topsoil Excavate	183.8
Topsoil Place	-177.6
Concrete Place	-1.3
Grand Total	-44.6

Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	231	CY	= Subsoil Excavate + Topsoil Excavate+Asphalt Excavate
20103 Excavation Cut - Pea Gravel	243	CY	= Play Surface Excavate
20202 Fill Borrow	108	CY	= Subsoil Excavate + Subsoil Place
20221 Topsoil	1064	SY	= (Topsoil Place)/-.167
40102 Crushed Aggregate Base Course Gradation No. 2	89	tons	= (Gravel for Pavement Place) * -2 ton/cubic yard
40201 HMA Pavement 3 LT 58-28 S	27.0	tons	= Asphalt Place * -2.16 ton/cubic yard
90003 Playground Surfacing - Wood Mulch	138	CY	= Play Surface Place * -1.10

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play
MADISON PARKS

PROJECT:
2019 PLAYGROUND REPLACEMENTS - GROUP 1

**LUCIA CREST PARK
 514 N OWEN DR
 MADISON, WI 53705**

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: 04-11-2019
 Drawn by: KK 2-27-2019

PUBLIC WORKS PROJECT #:

9414

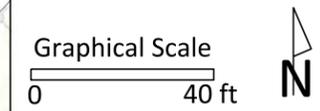
SHEET TITLE:
DESIGN CALCULATIONS

SHEET NUMBER:
2.5



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PROJECT:
**2019
 PLAYGROUND
 REPLACEMENTS
 - GROUP 1**

**SEGOE PARK
 502 S SEGOE RD
 MADISON, WI 53711**

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
Advised:	04-11-2019
Drawn by: KK	02-22-2019

PUBLIC WORKS PROJECT #:
9414

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

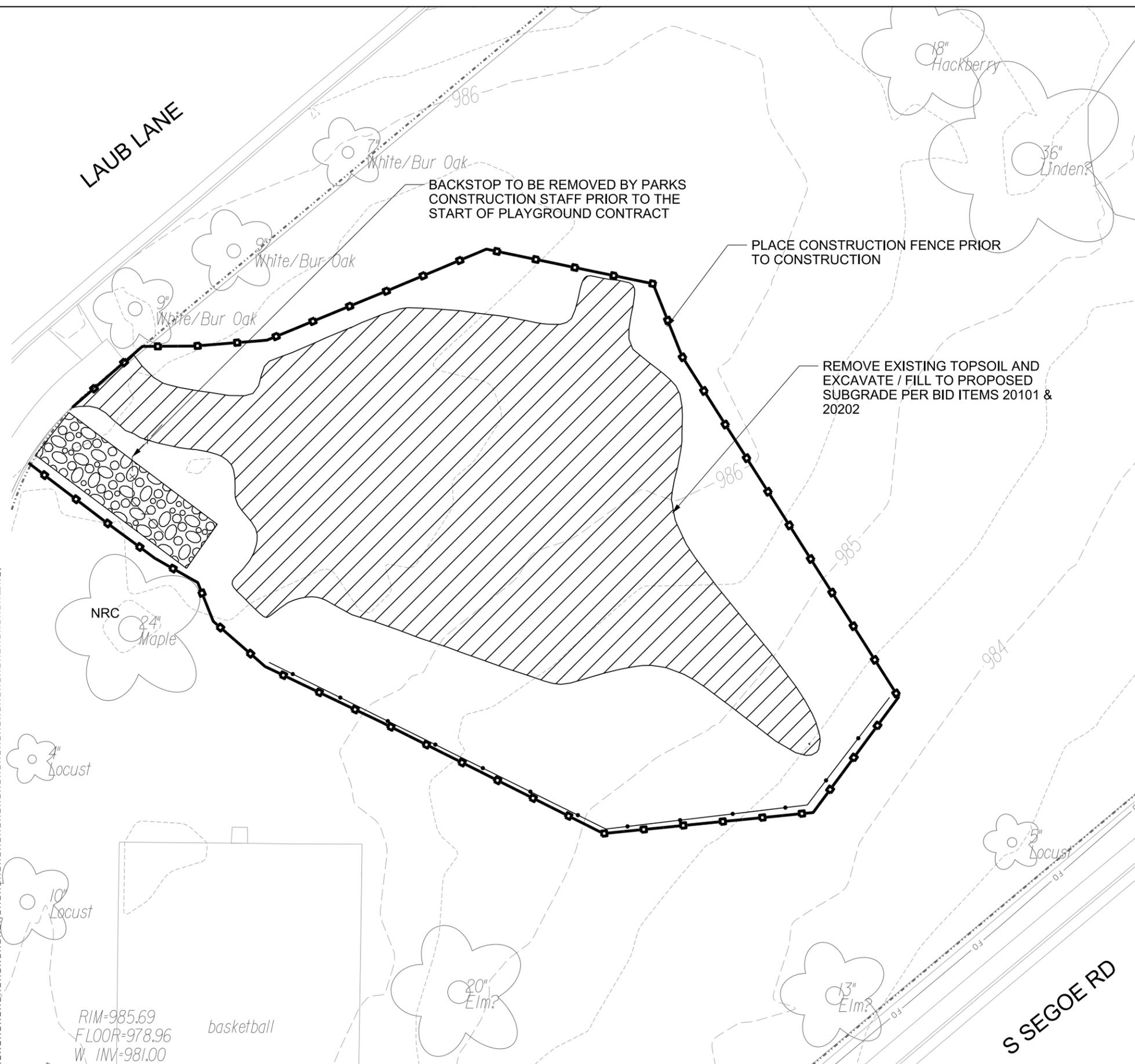
SHEET NUMBER:
3.1

LEGEND

-  REMOVE EX. LAWN
-  PRO. CONSTRUCTION ENTRANCE
-  PRO. CONSTRUCTION FENCE
-  PRO. SILT SOCK
-  NRC NO ROOT CUT PER BID ITEM 10803
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  EX. APPROX. PARK BOUNDARY

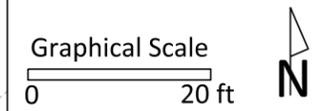
NOTES

1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



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play
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PROJECT:
2019
PLAYGROUND
REPLACEMENTS
- GROUP 1

SEGOE PARK
502 S SEGOE RD
MADISON, WI 53711

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
Advised:	04-11-2019
Drawn by: KK	11-14-2018

PUBLIC WORKS PROJECT #:
9414

SHEET TITLE:
DEMOLITION AND
PROTECTION PLAN

SHEET NUMBER:
3.2

LEGEND

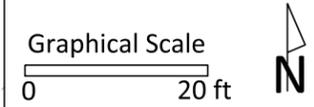
- PRO. ASPHALT
- PRO. CONCRETE
- PRO. WOOD MULCH
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)
- EX. APPROX. PARK BOUNDARY

NOTES

1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

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PROJECT:
2019
PLAYGROUND
REPLACEMENTS
- GROUP 1

SEGOE PARK
502 S SEGOE RD
MADISON, WI 53711

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
Advised:	04-11-2019
Drawn by: KK	11-14-2018

PUBLIC WORKS PROJECT #:

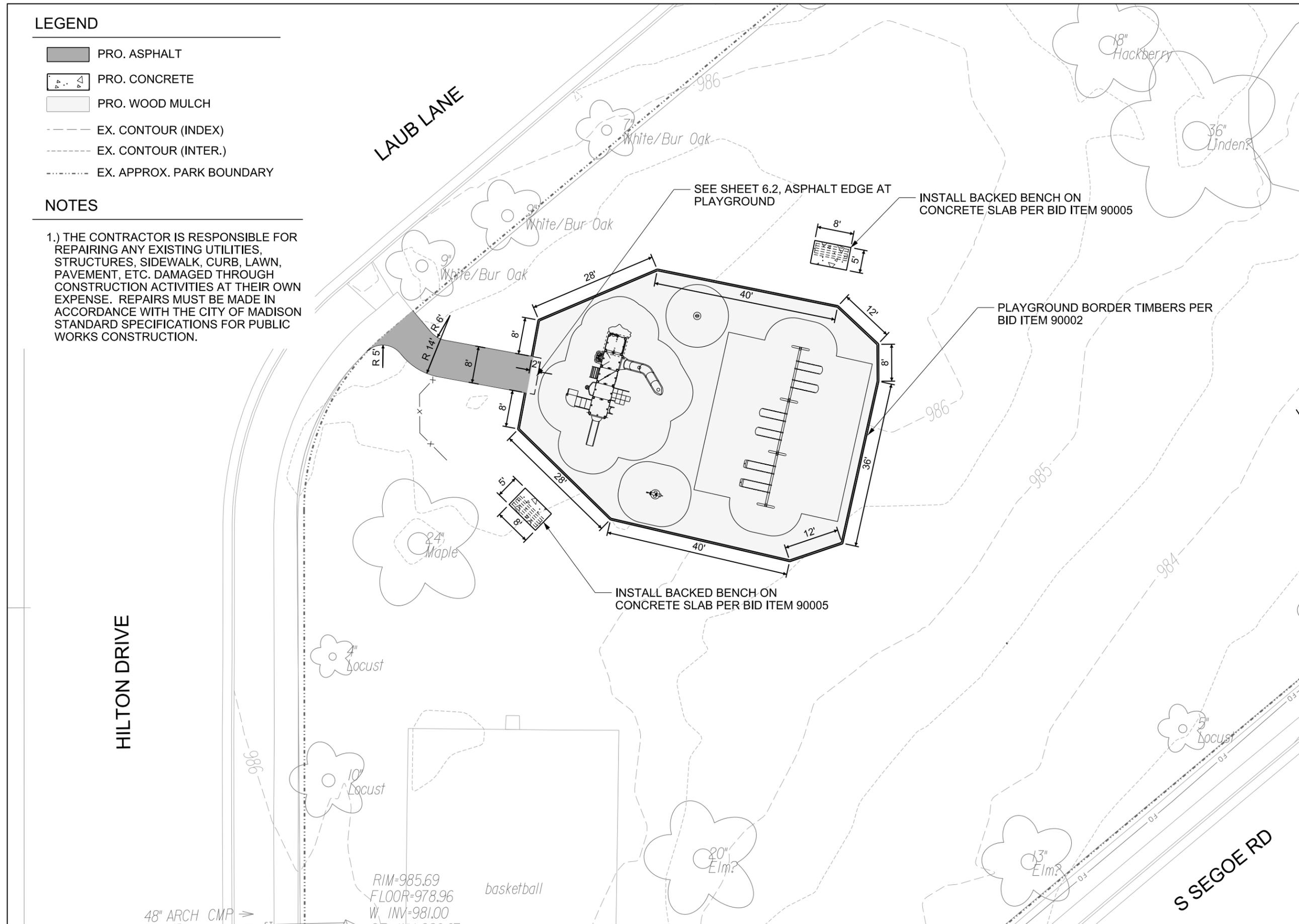
9414

SHEET TITLE:

SITE PLAN

SHEET NUMBER:

3.3



LEGEND

-  PRO. SPOT EL.
-  PRO. SLOPE
-  PRO. ASPHALT
-  PRO. WOOD MULCH
-  PRO. EROSION MATTING
-  PRO. CONSTRUCTION ENTRANCE
-  PRO. GRADING EXTENTS
-  PRO. DRAINTILE UNDERDRAIN
-  PRO. CONSTRUCTION FENCE
-  PRO. SILT SOCK
-  PRO. CONTOUR (INDEX)
-  PRO. CONTOUR (INTER.)
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  EX. APPROX. PARK BOUNDARY

NOTES

- 1.) PLACE 4 OZ. PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 6.1.
- 2.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS.

EDGE OF PLAYGROUND BORDER TIMBERS: 986.97
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 986.80
 PLAYGROUND SUBGRADE ELEVATION: 985.80
 ASPHALT AT PLAYGROUND ELEVATION: 986.80

RESTORE ALL DISTURBANCE AREAS AT COMPLETION OF CONSTRUCTION WITH TOPSOIL, SEED AND MAT PER BID ITEMS 20221, 20701 & 21061

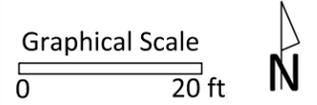
CONCRETE WASH-OUT AREA;
 CONTRACTOR TO SUBMIT DETAIL OF METHOD TO BE UTILIZED
 NOTE: THIS ITEM IS INCIDENTAL TO BID ITEM 30301, CONCRETE SIDEWALK

Drain Tile Lengths & Slopes				
from intersection to intersection				
From	To	Length (ft)	Slope (%)	Pipe type
A	B	7.48	-0.6685	Underdrain
B	C	11.19	-0.71	Underdrain
C	D	11.19	-0.71	Underdrain
D	E	11.19	-0.71	Underdrain
E	J	62.20	-0.69	Underdrain
F	B	31.16	-0.16	Underdrain
G	C	36.19	-0.36	Underdrain
H	D	40.90	-0.51	Underdrain
I	E	45.93	-0.63	Underdrain

Segoe Park Playground		
Drain Tile Invert (Flowline) Elevations		
Point	Invert (ft)	Distance from top of timbers 986.97 (INCHES)
A	985.22	21.00
B	985.17	21.60
C	985.09	22.56
D	985.01	23.52
E	984.93	24.48
F	985.22	21.00
G	985.22	21.00
H	985.22	21.00
I	985.22	21.00
J	984.50	29.64

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play
MADISON PARKS



PROJECT:
2019 PLAYGROUND REPLACEMENTS - GROUP 1

SEGOE PARK
 502 S SEGOE RD
 MADISON, WI 53711

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
Advised:	04-11-2019
Drawn by: KK	11-14-2018

PUBLIC WORKS PROJECT #:
9414
 SHEET TITLE:
GRADING AND EROSION CONTROL PLAN
 SHEET NUMBER:

3.4

Segoe Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract
Date Revised: 2-18-2019

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.

Existing Segoe_Survey2018-10-09.dtm
Proposed Pro1_COMPS.dtm
Proposed

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)
Grass to Asphalt	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	287	0.50	144	5.3	0%	5.3
Grass to Asphalt	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	287	varies	189	7.0	0%	7.0
Grass to Asphalt	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	287	varies	0	0.0	0%	0.0
Grass to Asphalt	Gravel (for Pavement) Place	Place 9in gravel base out to 6in from pavement edge	n/a	n/a	287	-0.75	-215	-8.0	0%	-8.0
Grass to Asphalt	Asphalt Place	Place 3in asphalt	n/a	n/a	256	-0.25	-64	-2.4	0%	-2.4
Grass to Asphalt	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	31	-0.25	-8	-0.3	0%	-0.3
Grass to Concrete	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	108	0.50	54	2.0	0%	2.0
Grass to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-11in	108	varies	35	1.3	0%	1.3
Grass to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-11in	108	varies	0	0.0	0%	0.0
Grass to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	108	-0.50	-54	-2.0	0%	-2.0
Grass to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	80	-0.42	-33	-1.2	0%	-1.2
Grass to Concrete	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	28	-0.42	-12	-0.4	0%	-0.4
Grass to Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	1615	0.50	807	29.9	0%	29.9
Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	1615	varies	33	1.2	0%	1.2
Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	1615	varies	-243	-9.0	0%	-9.0
Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	1615	-0.50	-807	-29.9	0%	-29.9
Grass to Play Surface	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	3613	0.50	1806	66.9	0%	66.9
Grass to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	3613	varies	1596	59.1	0%	59.1
Grass to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	3613	varies	-111	-4.1	0%	-4.1
Grass to Play Surface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	3613	-1.00	-3613	-133.8	0%	-133.8
Grass to Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	112	0.50	56	2.1	0%	2.1
Grass to Timbers	Subsoil Place	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	112	varies	38	1.4	0%	1.4
Grass to Timbers	Subsoil Excavate	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	112	varies	-9	-0.3	0%	-0.3
Grass to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	112	-1.00	-112	-4.1	0%	-4.1

Segoe Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract 9414
Date Revised: 3/7/2019

Dervied from more detailed spreadsheet available from Parks Div

Computation Summary

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

Row Labels	Sum of Unfactored volume (cu yd)
Asphalt Place	-2.4
Border Timbers Place (placeholder volume)	-4.1
Gravel (for Pavement) Place	-10.0
Play Surface Place	-133.8
Subsoil Excavate	68.3
Subsoil Place	-11.7
Topsoil Excavate	106.2
Topsoil Place	-30.6
Concrete Place	-1.2
Grand Total	-19.3

Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	174	CY	= Subsoil Excavate + Topsoil Excavate
20202 Fill Borrow	57	CY	= Subsoil Excavate + Subsoil Place
40102 Crushed Aggregate Base Course Gradation No. 2	20	TONS	= (Gravel for Pavement Place) * -2 ton/cubic yard
40201 HMA Pavement 3 LT 58-28 S	5	TONS	= Asphalt Place * -2.16 ton/cubic yard
20221 Topsoil	183	SY	= (Topsoil Place)/-.167
90003 Playground Surfacing - Wood Mulch	147	CY	= Play Surface Place * - 1.10

City of Madison
Department of Public Works
PARKS DIVISION

City-County Building, Suite 104
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Madison, WI 53703



PROJECT:
*2019
PLAYGROUND
REPLACEMENTS
- GROUP 1*

*SEGOE PARK
502 S SEGOE RD
MADISON, WI 53711*

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
Advised: 04-11-2019
Drawn by: KK 11-14-2018

PUBLIC WORKS PROJECT #:

9414

SHEET TITLE:
*DESIGN
CALCULATIONS*

SHEET NUMBER:
3.5

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

Graphical Scale
 0 40 ft



PROJECT:
2019
PLAYGROUND
REPLACEMENTS
- GROUP 1

WILLIAM SLATER PARK
561 S SEGOE RD
MADISON, WI 53711

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ITEM	DATE
Advised:	04-11-2019
Drawn by: KK	02-28-2019

PUBLIC WORKS PROJECT #:

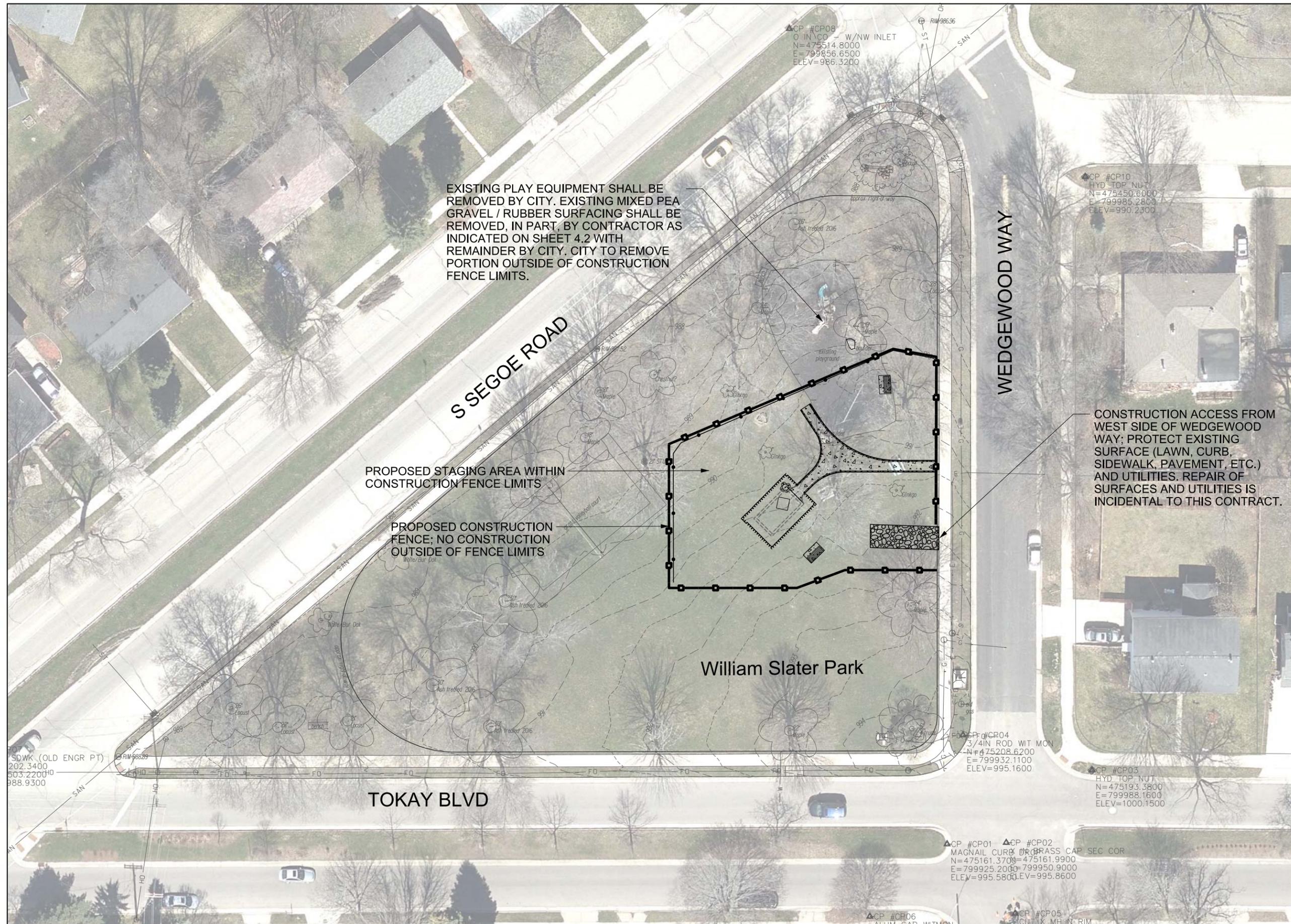
9414

SHEET TITLE:

PROJECT LOCATION
AND SITE ACCESS

SHEET NUMBER:

4.1



EXISTING PLAY EQUIPMENT SHALL BE REMOVED BY CITY. EXISTING MIXED PEA GRAVEL / RUBBER SURFACING SHALL BE REMOVED, IN PART, BY CONTRACTOR AS INDICATED ON SHEET 4.2 WITH REMAINDER BY CITY. CITY TO REMOVE PORTION OUTSIDE OF CONSTRUCTION FENCE LIMITS.

PROPOSED STAGING AREA WITHIN CONSTRUCTION FENCE LIMITS

PROPOSED CONSTRUCTION FENCE; NO CONSTRUCTION OUTSIDE OF FENCE LIMITS

CONSTRUCTION ACCESS FROM WEST SIDE OF WEDGEWOOD WAY; PROTECT EXISTING SURFACE (LAWN, CURB, SIDEWALK, PAVEMENT, ETC.) AND UTILITIES. REPAIR OF SURFACES AND UTILITIES IS INCIDENTAL TO THIS CONTRACT.

POINT SDWK (OLD ENGR PT)
 202.3400
 503.2200
 988.9300

TOKAY BLVD

William Slater Park

WEDGEWOOD WAY

CP #CP08
 0 IN CO - W/NW INLET
 N=475514.8000
 E=799856.6500
 ELEV=986.3200

CP #CP10
 HYD TOP NUT
 N=475450.6000
 E=799985.2800
 ELEV=990.2300

CP #CP04
 3/4IN ROD WIT MON
 N=475208.6200
 E=799932.1100
 ELEV=995.1600

CP #CP03
 HYD TOP NUT
 N=475193.3800
 E=799988.1600
 ELEV=1000.1500

CP #CP01 CP #CP02
 MAGNAIL CURB OR BRASS CAP SEC COR
 N=475161.3700 E=475161.9900
 N=475161.3700 E=475161.9900
 E=799925.2000 E=799950.9000
 ELEV=995.5800 ELEV=995.8600

CP #CP06
 ALUM CAP WIT MON

CP #CP05
 CUT X MH N RIM

LEGEND

 REMOVE EX. PEA GRAVEL / RUBBER MIX BY CONTRACTOR
REMAINING PORTION TO NORTH WILL BE REMOVED BY PARKS STAFF

 REMOVE EX. LAWN

 PRO. CONSTRUCTION ENTRANCE

 PRO. CONSTRUCTION FENCE

 PRO. SILT SOCK

NRC  NO ROOT CUT PER BID ITEM 10803

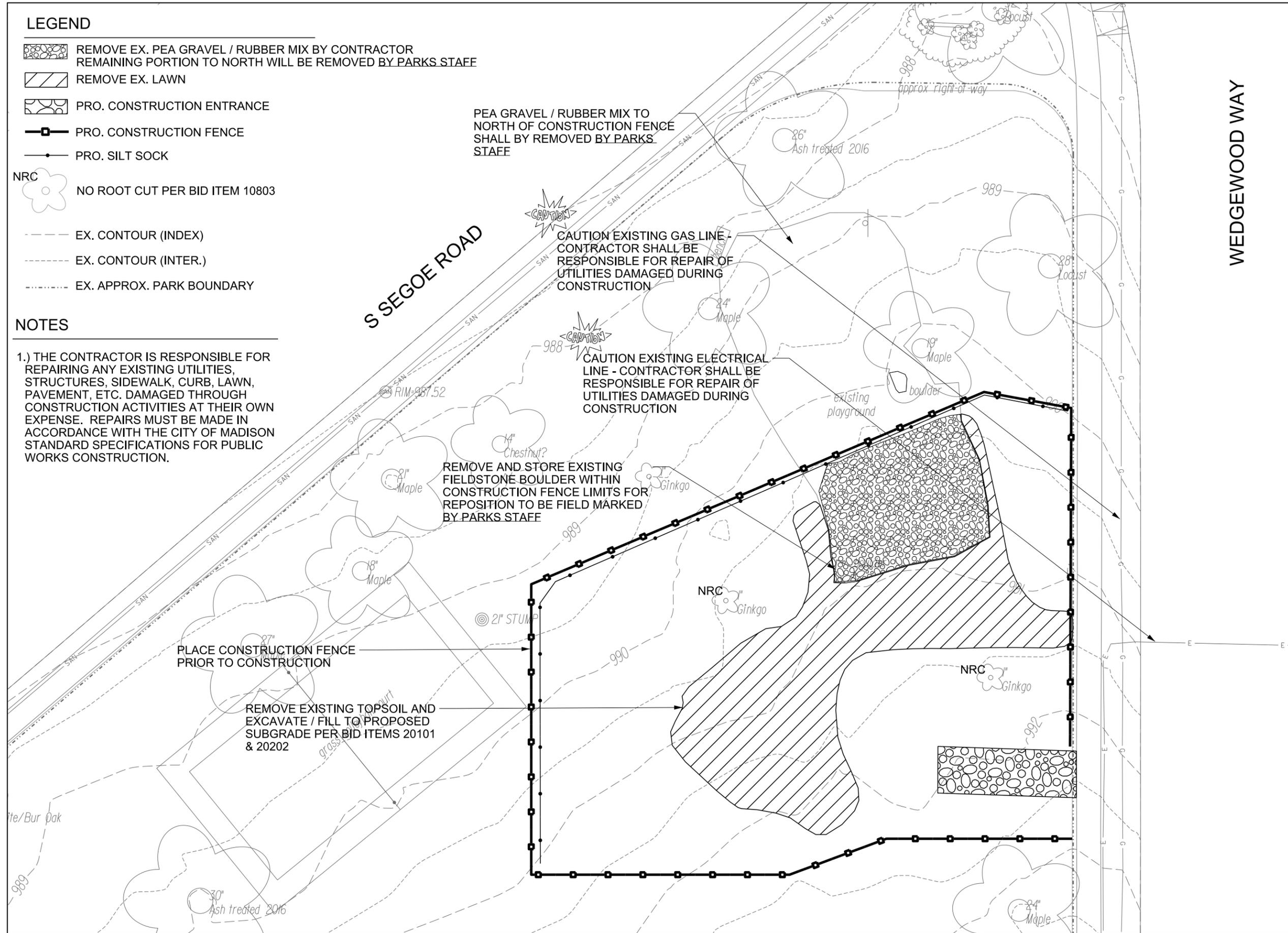
 EX. CONTOUR (INDEX)

 EX. CONTOUR (INTER.)

 EX. APPROX. PARK BOUNDARY

NOTES

1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



City of Madison
Department of Public Works
PARKS DIVISION

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Madison, WI 53703

play
MADISON
PARKS

Graphical Scale
0 20 ft



PROJECT:
2019
PLAYGROUND
REPLACEMENTS
- GROUP 1

WILLIAM SLATER PARK
561 S SEGOE RD
MADISON, WI 53711

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
Advised:	04-11-2019
Drawn by: KK	02-27-2019

PUBLIC WORKS PROJECT #:

9414

SHEET TITLE:

DEMOLITION AND
PROTECTION PLAN

SHEET NUMBER:

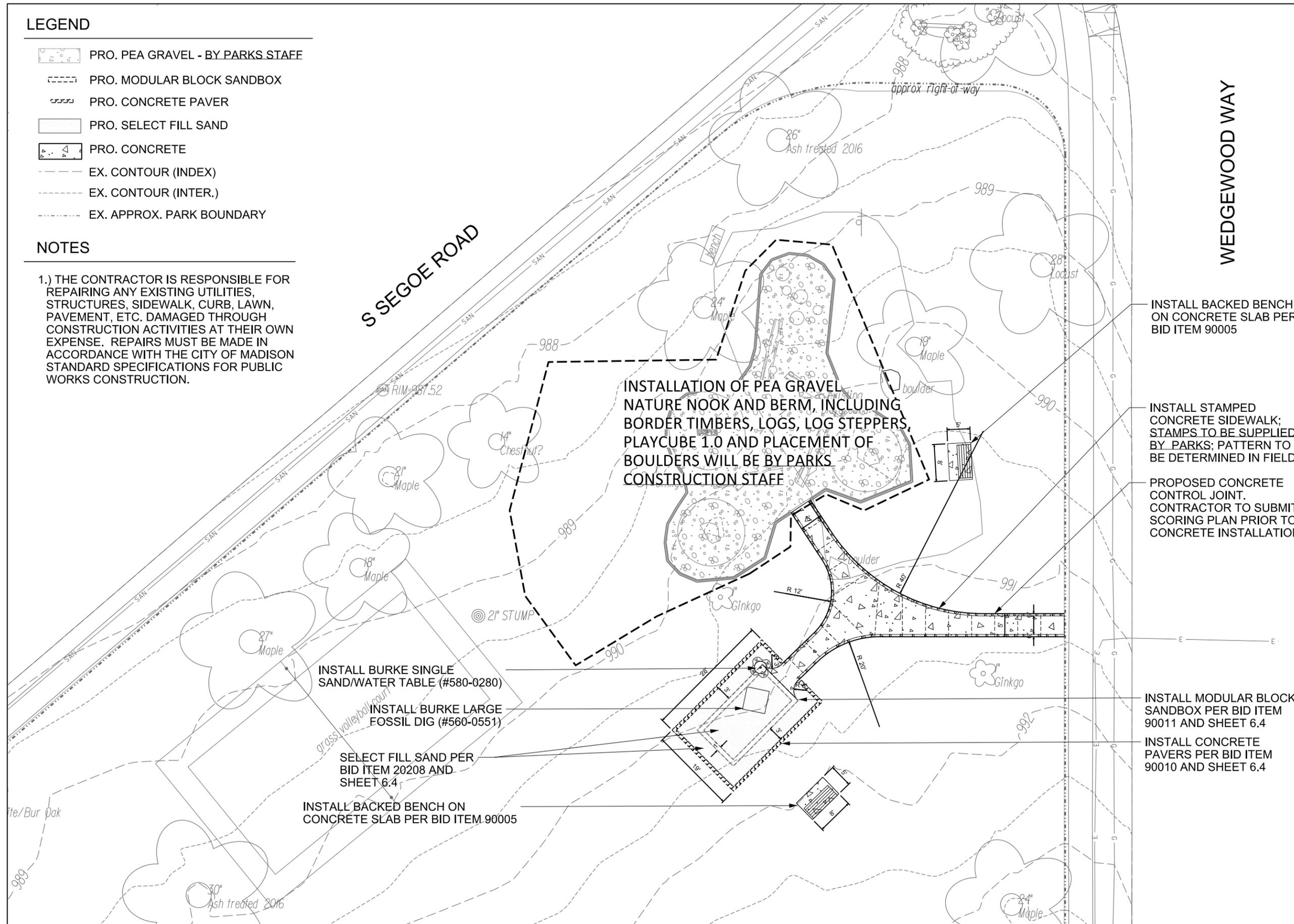
4.2

LEGEND

-  PRO. PEA GRAVEL - BY PARKS STAFF
-  PRO. MODULAR BLOCK SANDBOX
-  PRO. CONCRETE PAVER
-  PRO. SELECT FILL SAND
-  PRO. CONCRETE
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  EX. APPROX. PARK BOUNDARY

NOTES

1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



INSTALLATION OF PEA GRAVEL NATURE NOOK AND BERM, INCLUDING BORDER TIMBERS, LOGS, LOG STEPPERS, PLAYCUBE 1.0 AND PLACEMENT OF BOULDERS WILL BE BY PARKS CONSTRUCTION STAFF

WEDGEWOOD WAY

INSTALL BACKED BENCH ON CONCRETE SLAB PER BID ITEM 90005

INSTALL STAMPED CONCRETE SIDEWALK; STAMPS TO BE SUPPLIED BY PARKS; PATTERN TO BE DETERMINED IN FIELD

PROPOSED CONCRETE CONTROL JOINT. CONTRACTOR TO SUBMIT SCORING PLAN PRIOR TO CONCRETE INSTALLATION.

INSTALL MODULAR BLOCK SANDBOX PER BID ITEM 90011 AND SHEET 6.4

INSTALL CONCRETE PAVERS PER BID ITEM 90010 AND SHEET 6.4

INSTALL BURKE SINGLE SAND/WATER TABLE (#580-0280)

INSTALL BURKE LARGE FOSSIL DIG (#560-0551)

SELECT FILL SAND PER BID ITEM 20208 AND SHEET 6.4

INSTALL BACKED BENCH ON CONCRETE SLAB PER BID ITEM 90005

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play
MADISON PARKS

Graphical Scale
 0 20 ft 

PROJECT:
2019 PLAYGROUND REPLACEMENTS - GROUP 1

WILLIAM SLATER PARK
 561 S SEGOE RD
 MADISON, WI 53711

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ITEM	DATE
Advised:	04-11-2019
Drawn by: KK	02-27-2019

PUBLIC WORKS PROJECT #:
9414

SHEET TITLE:
SITE PLAN

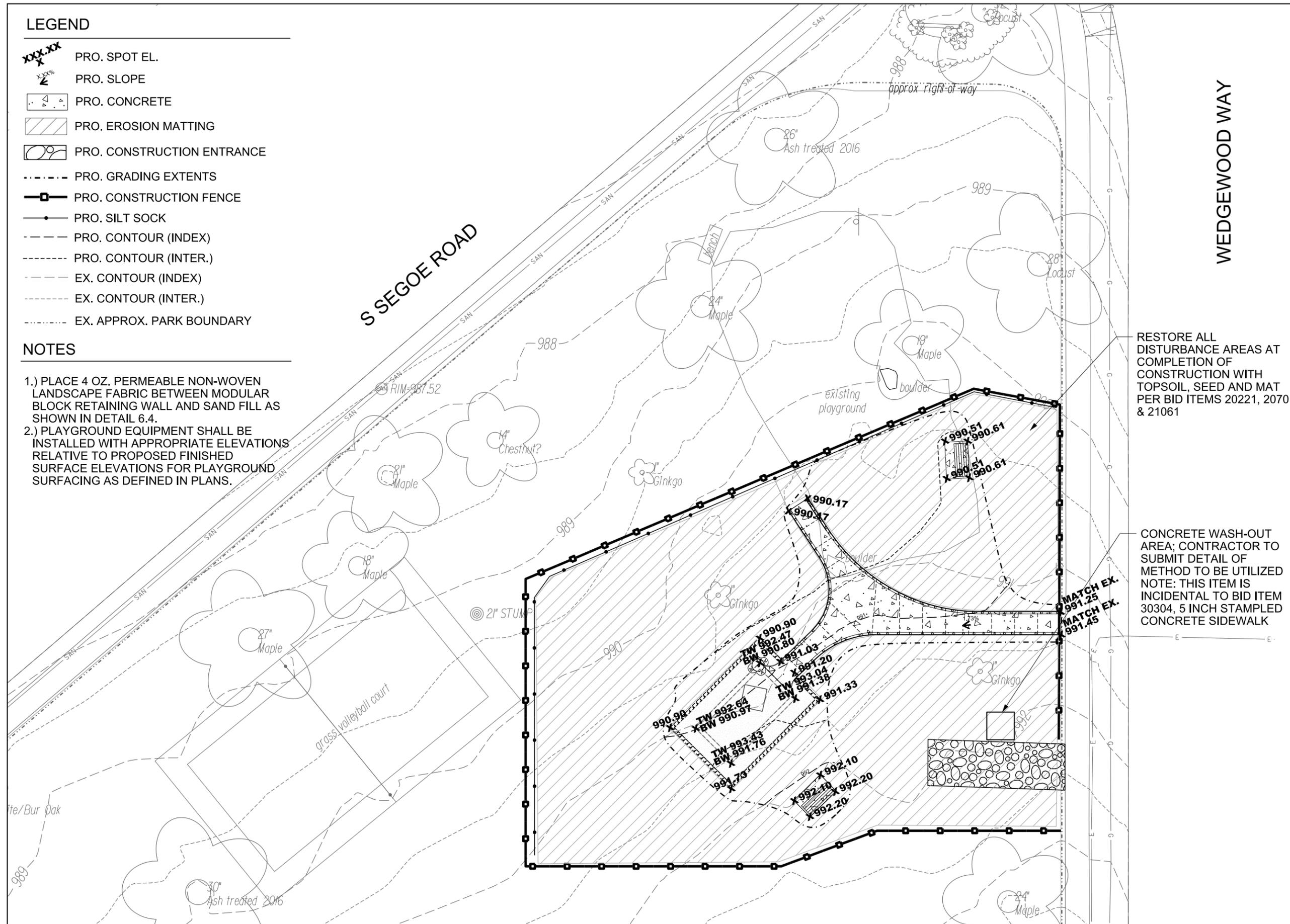
SHEET NUMBER:
4.3

LEGEND

-  PRO. SPOT EL.
-  PRO. SLOPE
-  PRO. CONCRETE
-  PRO. EROSION MATTING
-  PRO. CONSTRUCTION ENTRANCE
-  PRO. GRADING EXTENTS
-  PRO. CONSTRUCTION FENCE
-  PRO. SILT SOCK
-  PRO. CONTOUR (INDEX)
-  PRO. CONTOUR (INTER.)
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  EX. APPROX. PARK BOUNDARY

NOTES

- 1.) PLACE 4 OZ. PERMEABLE NON-WOVEN LANDSCAPE FABRIC BETWEEN MODULAR BLOCK RETAINING WALL AND SAND FILL AS SHOWN IN DETAIL 6.4.
- 2.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS.



WEDGEWOOD WAY

RESTORE ALL DISTURBANCE AREAS AT COMPLETION OF CONSTRUCTION WITH TOPSOIL, SEED AND MAT PER BID ITEMS 20221, 20701 & 21061

CONCRETE WASH-OUT AREA; CONTRACTOR TO SUBMIT DETAIL OF METHOD TO BE UTILIZED NOTE: THIS ITEM IS INCIDENTAL TO BID ITEM 30304, 5 INCH STAMPED CONCRETE SIDEWALK

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play
MADISON PARKS

Graphical Scale
0 20 ft 

PROJECT:
2019 PLAYGROUND REPLACEMENTS - GROUP 1

**WILLIAM SLATER PARK
561 S SEGOE RD
MADISON, WI 53711**

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ITEM	DATE
Advised:	04-11-2019
Drawn by: KK	02-27-2019

PUBLIC WORKS PROJECT #:
9414

SHEET TITLE:
GRADING AND EROSION CONTROL PLAN

SHEET NUMBER:
4.4



PROJECT:
**2019
 PLAYGROUND
 REPLACEMENTS
 - GROUP 1**

**WILLIAM SLATER PARK
 561 S SEGOE RD
 MADISON, WI 53711**

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ITEM DATE
 Advertised: 04-11-2019
 Drawn by: KK 02-27-2019

PUBLIC WORKS PROJECT #:

9414

SHEET TITLE:
**DESIGN
 CALCULATIONS**

SHEET NUMBER:
4.5

William Slater Park Playground - Earthwork Quantities
 City of Madison, WI Public Works Contract
 Date Revised: 2-21-2019

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.

Existing Slater_Survey2018-10-09.dtm
 Proposed Pro1.dtm

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)
Concrete to Grass	Concrete Excavate	Remove existing concrete, estimated depth 5in	n/a	n/a	23	0.42	10	0.4	0%	0.4
Concrete to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	23	varies	0	0.0	0%	0.0
Concrete to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	23	varies	0	0.0	0%	0.0
Concrete to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	23	-0.50	-11	-0.4	0%	-0.4
Grass to Concrete	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	678	0.50	339	12.6	0%	12.6
Grass to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-11in	678	varies	286	10.6	0%	10.6
Grass to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-11in	678	varies	0	0.0	0%	0.0
Grass to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	678	-0.50	-339	-12.6	0%	-12.6
Grass to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	560	-0.42	-233	-8.6	0%	-8.6
Grass to Concrete	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	118	-0.42	-49	-1.8	0%	-1.8
Grass to Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	4106	0.50	2053	76.0	0%	76.0
Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	4106	varies	1	0.0	0%	0.0
Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	4106	varies	-1817	-67.3	0%	-67.3
Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	4106	-0.50	-2053	-76.0	0%	-76.0
Grass to Peagravel	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	872	0.50	436	16.1	0%	16.1
Grass to Peagravel	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	872	varies	159	5.9	0%	5.9
Grass to Peagravel	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	872	varies	-126	-4.7	0%	-4.7
Grass to Peagravel	Peagravel Place	Place 12in peagravel surface	n/a	n/a	872	-1.00	-872	-32.3	0%	-32.3
Grass to Sandbox	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	107	0.50	53	2.0	0%	2.0
Grass to Sandbox	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	107	varies	0	0.0	0%	0.0
Grass to Sandbox	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	107	varies	-116	-4.3	0%	-4.3
Grass to Sandbox	Sand Place	Place 12in wood mulch play surface	n/a	n/a	107	-1.00	-107	-4.0	0%	-4.0
Grass to Sandbox Gutter	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	204	0.50	102	3.8	0%	3.8
Grass to Sandbox Gutter	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	204	varies	2	0.1	0%	0.1
Grass to Sandbox Gutter	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	204	varies	-19	-0.7	0%	-0.7
Grass to Sandbox Gutter	Sand Place	Place 12in wood mulch play surface	n/a	n/a	204	-1.00	-204	-7.6	0%	-7.6
Grass to Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	30	0.50	15	0.6	0%	0.6
Grass to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	30	varies	4	0.1	0%	0.1
Grass to Timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	30	varies	-12	-0.4	0%	-0.4
Grass to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	30	-1.00	-30	-1.1	0%	-1.1
Play Surface to Concrete	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	118	1.42	167	6.2	0%	6.2
Play Surface to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-6in	118	varies	0	0.0	0%	0.0
Play Surface to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	118	-0.50	-59	-2.2	0%	-2.2
Play Surface to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	83	-0.42	-35	-1.3	0%	-1.3
Play Surface to Concrete	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	35	-0.42	-15	-0.5	0%	-0.5
Play Surface to Grass	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	1684	1.42	2386	88.4	0%	88.4
Play Surface to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-6in	1684	varies	0	0.0	0%	0.0
Play Surface to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-6in	1684	varies	-1453	-53.8	0%	-53.8
Play Surface to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	1684	-0.50	-842	-31.2	0%	-31.2
Play Surface to Play Surface	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	975	1.42	1381	51.1	0%	51.1
Play Surface to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	975	varies	0	0.0	0%	0.0
Play Surface to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	975	varies	-956	-35.4	0%	-35.4
Play Surface to Play Surface	Play Surface Place	Place 12in rubber mulch play surface	n/a	n/a	975	-1.00	-975	-36.1	0%	-36.1
Play Surface to Timbers	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	40	1.42	57	2.1	0%	2.1
Play Surface to Timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	40	varies	0	0.0	0%	0.0
Play Surface to Timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	40	varies	-51	-1.9	0%	-1.9
Play Surface to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	40	-1.00	-40	-1.5	0%	-1.5

NOTE: DESIGN CALCULATIONS AS SHOWN ON THIS PAGE ARE FOR ENTIRE SITE. ENGINEER'S ESTIMATE REFLECTS PLAN QUANTITIES FOR CONTRACTOR'S COMPONENT

William Slater Park Playground - Earthwork Quantities
 City of Madison, WI Public Works Contract 9414
 Date Revised: 2/21/2019

Dervied from more detailed spreadsheet available from Parks Div

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

Row Labels	Sum of Unfactored volume (cu yd)
Border Timbers Place (placeholder volume)	-1.1
Concrete Excavate	0.4
Concrete Place	-8.6
Gravel (for Pavement) Place	-12.6
Peagravel Place	-32.3
Sand Place	-11.5
Subsoil Excavate	16.1
Subsoil Place	-76.8
Topsoil Excavate	111.1
Topsoil Place	-78.3
Grand Total	-93.7

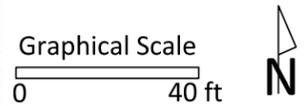
Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	127	CY	= Subsoil Excavate + Topsoil Excavate+Asphalt Excavate
20104 Excavation Cut - Peagravel / Rubber Mix	48	CY	= Play Surface Excavate
20202 Fill Borrow	61	CY	= Subsoil Excavate + Subsoil Place
20208 Select Fill Sand	16	CY	= Sand Place + 4 CY placeholder
20221 Topsoil	469	SY	= (Topsoil Place)/-.167
40102 Crushed Aggregate Base Course	25	TON	= (Gravel for Pavement Place) * -2 ton/cubic yard



City of Madison
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PARKS DIVISION
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play
**MADISON
 PARKS**



PROJECT:
**2019
 PLAYGROUND
 REPLACEMENTS
 - GROUP 1**

**WALNUT GROVE PARK
 202 N WESTFIELD RD
 MADISON, WI 53717**

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
Advised:	04-11-2019
Drawn by: KK	02-27-2019

PUBLIC WORKS PROJECT #:
9414

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

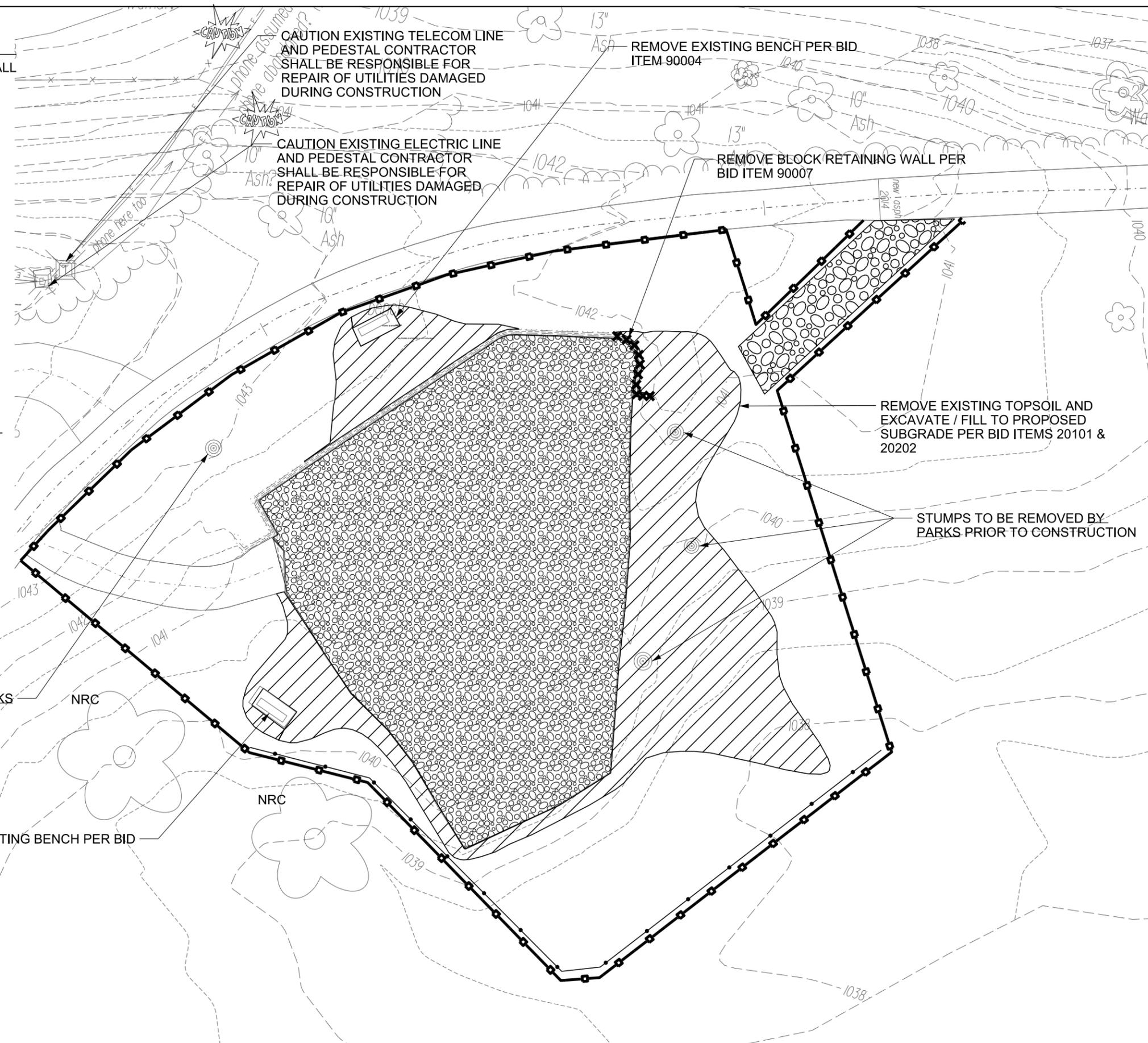
SHEET NUMBER:
5.1

LEGEND

- xxx** REMOVE EX. BLOCK RETAINING WALL
-  REMOVE EX. PEA GRAVEL / RUBBER MIX
-  REMOVE EX. LAWN
-  PRO. CONSTRUCTION ENTRANCE
-  PRO. CONSTRUCTION FENCE
-  PRO. SILT SOCK
- NRC
 NO ROOT CUT PER BID ITEM 10803
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  EX. APPROX. PARK BOUNDARY

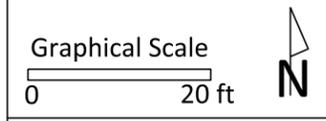
NOTES

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play
MADISON
PARKS



PROJECT:
2019
PLAYGROUND
REPLACEMENTS
- GROUP 1

WALNUT GROVE PARK
202 N WESTFIELD RD
MADISON, WI 53717

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ITEM	DATE
Advised:	04-11-2019
Drawn by: KK	2-27-2019

PUBLIC WORKS PROJECT #:
9414

SHEET TITLE:
DEMOLITION AND
PROTECTION PLAN

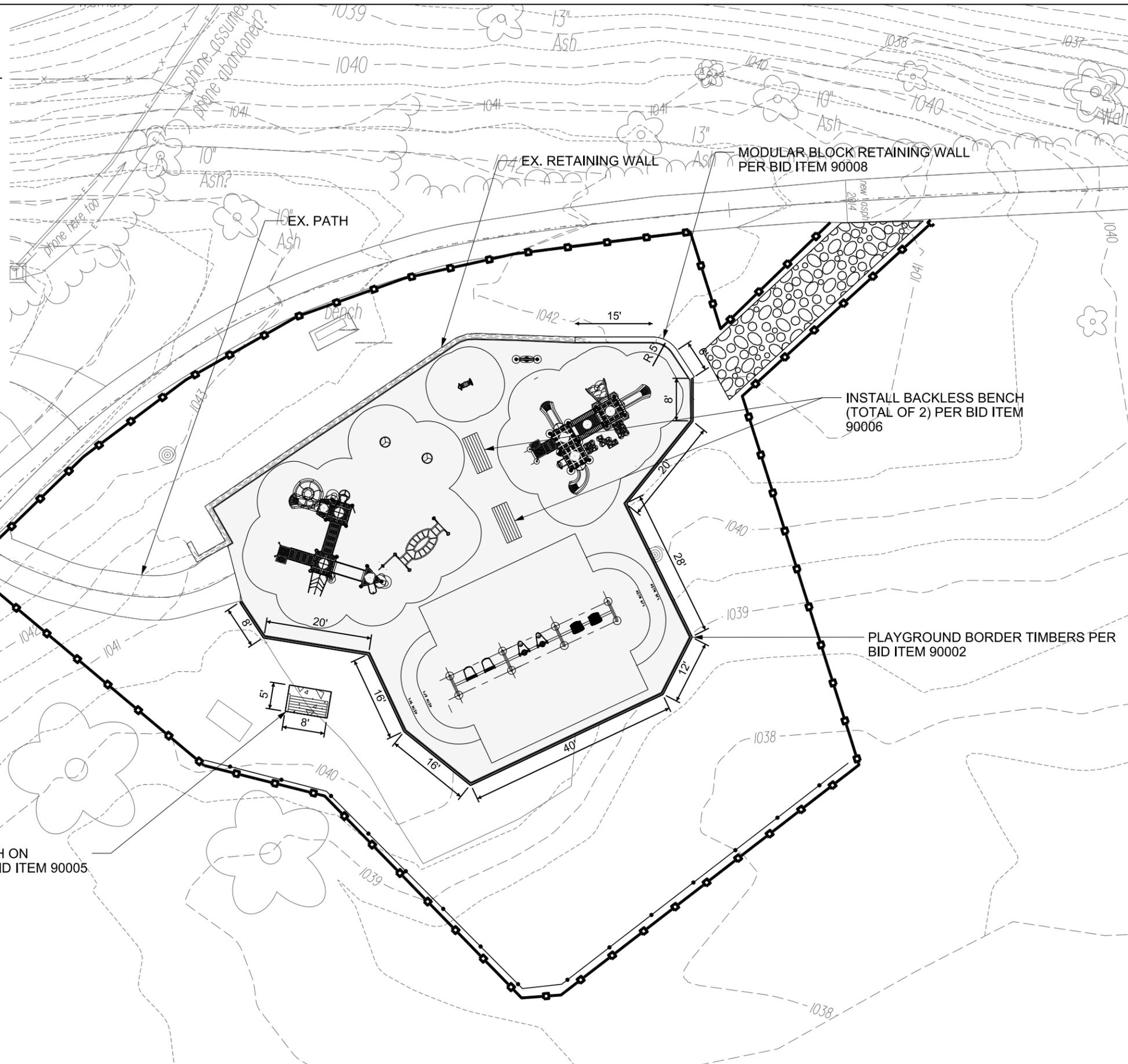
SHEET NUMBER:
5.2

LEGEND

-  PRO. MODULAR BLOCK RETAINING WALL
-  PRO. CONCRETE
-  PRO. WOOD MULCH
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  EX. APPROX. PARK BOUNDARY

NOTES

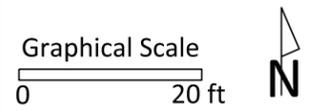
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PROJECT:
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PLAYGROUND
REPLACEMENTS
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WALNUT GROVE PARK
202 N WESTFIELD RD
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PUBLIC WORKS PROJECT #:
9414

SHEET TITLE:
SITE PLAN

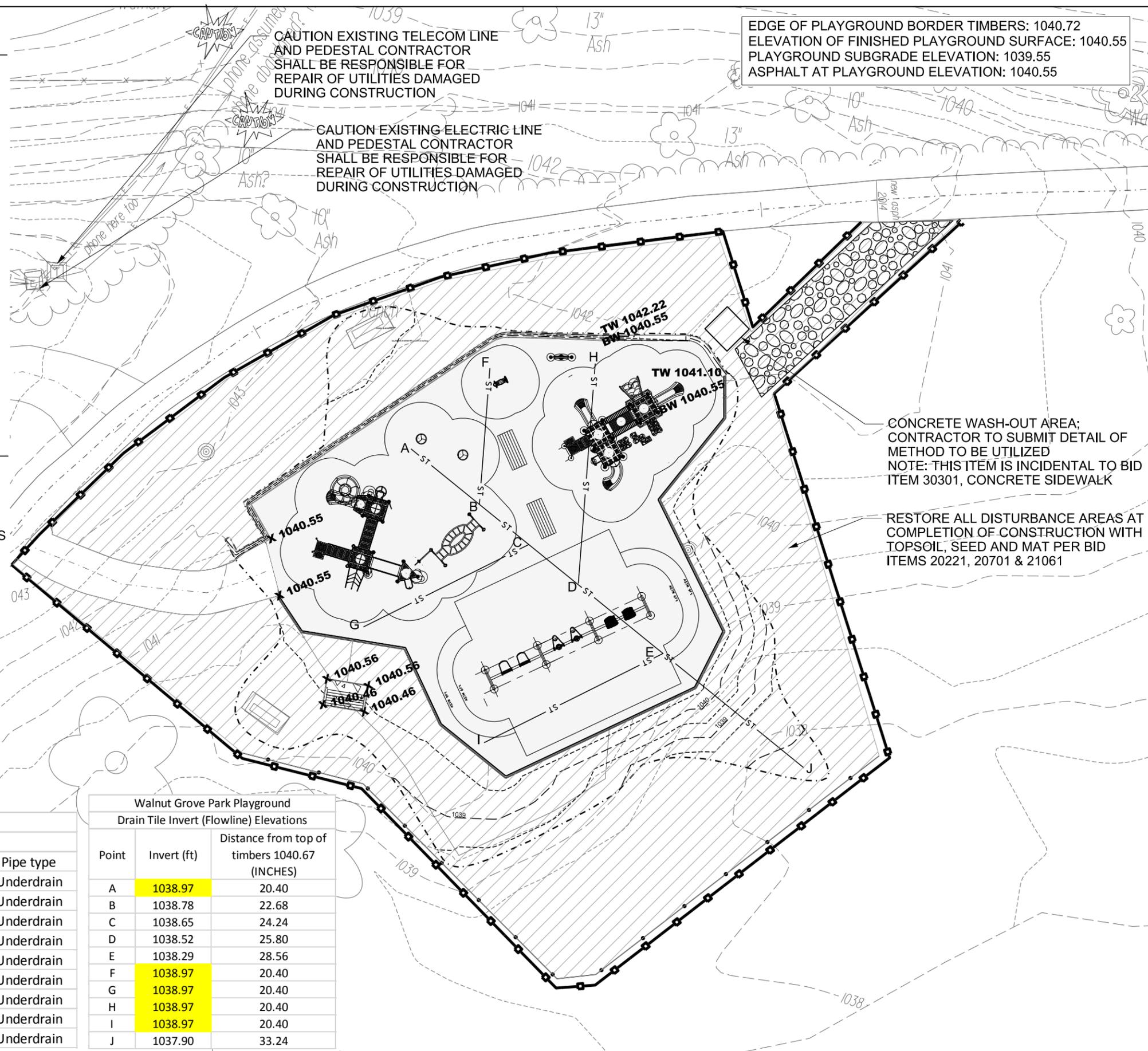
SHEET NUMBER:
5.3

LEGEND

- xxx-xx PRO. SPOT EL.
- PRO. MODULAR BLOCK RETAINING WALL
- ▨ PRO. WOOD MULCH
- ▨ PRO. EROSION MATTING
- ⊠ PRO. CONSTRUCTION ENTRANCE
- - - - - PRO. GRADING EXTENTS
- st- PRO. DRAINTILE UNDERDRAIN
- PRO. CONSTRUCTION FENCE
- PRO. SILT SOCK
- - - - - PRO. CONTOUR (INDEX)
- - - - - PRO. CONTOUR (INTER.)
- - - - - EX. CONTOUR (INDEX)
- - - - - EX. CONTOUR (INTER.)
- - - - - EX. APPROX. PARK BOUNDARY

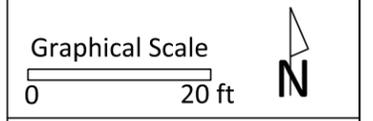
NOTES

- 1.) PLACE 4 OZ. PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 6.1.
- 2.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS.



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:
2019 PLAYGROUND REPLACEMENTS - GROUP 1

WALNUT GROVE PARK
 202 N WESTFIELD RD
 MADISON, WI 53717

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
Advised:	04-11-2019
Drawn by: KK	2-27-2019

PUBLIC WORKS PROJECT #:
9414

SHEET TITLE:
GRADING AND EROSION CONTROL PLAN

SHEET NUMBER:
5.4

Drain Tile Lengths & Slopes from intersection to intersection				
From	To	Length (ft)	Slope (%)	Pipe type
A	B	16.81	-1.1300	Underdrain
B	C	12.15	-1.07	Underdrain
C	D	12.15	-1.07	Underdrain
D	E	20.83	-1.10	Underdrain
E	J	34.62	-1.13	Underdrain
F	B	26.04	-0.73	Underdrain
G	C	35.26	-0.91	Underdrain
H	D	42.24	-1.07	Underdrain
I	E	38.16	-1.78	Underdrain

Walnut Grove Park Playground Drain Tile Invert (Flowline) Elevations		
Point	Invert (ft)	Distance from top of timbers 1040.67 (INCHES)
A	1038.97	20.40
B	1038.78	22.68
C	1038.65	24.24
D	1038.52	25.80
E	1038.29	28.56
F	1038.97	20.40
G	1038.97	20.40
H	1038.97	20.40
I	1038.97	20.40
J	1037.90	33.24

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)
Concrete to Grass	Concrete Excavate	Remove existing concrete, estimated depth 5in	n/a	n/a	63	0.42	26	1.0	0%	1.0
Concrete to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-5in	Pro-6in	63	varies	8	0.3	0%	0.3
Concrete to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-5in	Pro-6in	63	varies	0	0.0	0%	0.0
Concrete to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	63	-0.50	-31	-1.2	0%	-1.2
Grass to Concrete	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	29	0.50	14	0.5	0%	0.5
Grass to Concrete	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-11in	29	varies	4	0.1	0%	0.1
Grass to Concrete	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-11in	29	varies	0	0.0	0%	0.0
Grass to Concrete	Gravel (for Pavement) Place	Place 6in gravel base out to 6in from pavement edge	n/a	n/a	29	-0.50	-14	-0.5	0%	-0.5
Grass to Concrete	Concrete Place	Place 5in concrete	n/a	n/a	17	-0.42	-7	-0.3	0%	-0.3
Grass to Concrete	Topsoil Place	Place 3in topsoil over 6in wide gravel edge	n/a	n/a	12	-0.42	-5	-0.2	0%	-0.2
Grass to Grass	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	1983	0.50	991	36.7	0%	36.7
Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	1983	varies	1	0.0	0%	0.0
Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	1983	varies	-79	-2.9	0%	-2.9
Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	1983	-0.50	-991	-36.7	0%	-36.7
Grass to Play Surface	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	985	0.50	492	18.2	0%	18.2
Grass to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-12in	985	varies	535	19.8	0%	19.8
Grass to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-12in	985	varies	-201	-7.5	0%	-7.5
Grass to Play Surface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	985	-1.00	-985	-36.5	0%	-36.5
Play Surface to Grass	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	763	1.42	1080	40.0	0%	40.0
Play Surface to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-6in	763	varies	0	0.0	0%	0.0
Play Surface to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-6in	763	varies	-947	-35.1	0%	-35.1
Play Surface to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	763	-0.50	-381	-14.1	0%	-14.1
Play Surface to Play Surface	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	3951	1.42	5598	207.3	0%	207.3
Play Surface to Play Surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	3951	varies	0	0.0	0%	0.0
Play Surface to Play Surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	3951	varies	-2474	-91.6	0%	-91.6
Play Surface to Play Surface	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	3951	-1.00	-3951	-146.3	0%	-146.3
Play Surface to Timbers	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	28	1.42	39	1.4	0%	1.4
Play Surface to Timbers	Subsoil Place	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	28	varies	0	0.0	0%	0.0
Play Surface to Timbers	Subsoil Excavate	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	28	varies	-27	-1.0	0%	-1.0
Play Surface to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	28	-1.00	-28	-1.0	0%	-1.0
Play Surface to Wall Base	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	1036.63ft	24	varies	253	9.4	0%	9.4
Play Surface to Wall Base	Gravel (for Wall) Place	Place 6in gravel base under wall & out 12in behind wall up to proposed grass subgrade	n/a	n/a	24	varies	-215	-8.0	0%	-8.0
Play Surface to Wall Base	Gravel (for Wall) Place	Place gravel in front of wall up to play subgrade	n/a	n/a	4	-0.69	-3	-0.1	0%	-0.1
Play Surface to Wall Base	Wall Place (placeholder volume)	Place block retaining wall (placeholder volume to balance volume comps)	n/a	n/a	8	varies	-168	-6.2	0%	-6.2
Play Surface to Wall Base	Topsoil Place	Place 6in topsoil on 12in wide gravel behind retaining wall	n/a	n/a	8	-0.50	-4	-0.1	0%	-0.1
Play Surface to Wall Base	Play Surface Place	Place 12in wood mulch play surface	n/a	n/a	4	-1.00	-4	-0.1	0%	-0.1
Play Surface to Wall Base	(placeholder volume)	Placeholder to reconcile retaining wall volumes with overall DTM difference (proposed DTM doesn't fully model wall)	n/a	n/a	24	varies	32	1.2	0%	1.2
Wall Stays	(placeholder volume)	East playground east retaining wall to remain	n/a	n/a	95	0.00	0	0.0	0%	0.0

Walnut Grove Park Playground - Earthwork Quantities	
City of Madison, WI Public Works Contract	9414
Date Revised:	2/19/2019
Derived from more detailed spreadsheet available from Parks Div	
Computation Summary	
Positive volumes are cuts (material available), negative volumes are fills (material needed)	
Row Labels	Sum of Unfactored volume (cu yd)
Border Timbers Place (placeholder volume)	-1.0
Gravel (for Pavement) Place	-0.5
Play Surface Excavate	248.8
Play Surface Place	-182.8
Subsoil Excavate	19.3
Subsoil Place	-137.1
Topsoil Excavate	55.5
Topsoil Place	-52.2
Concrete Place	-0.3
Concrete Excavate	1.0
Grand Total	-49.4

Reorganized into bid table items			
Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	75	CY	= Subsoil Excavate + Topsoil Excavate+Asphalt Excavate
20104 Excavation Cut - Pea Gravel / Rubber Mix	249	CY	= Play Surface Excavate
20202 Fill Borrow	118	CY	= Subsoil Excavate + Subsoil Place
20221 Topsoil	313	SY	= (Topsoil Place)/- .167
40102 Crushed Aggregate Base Course Gradation No. 2	1	tons	= (Gravel for Pavement Place) * -2 ton/cubic yard
90003 Playground Surfacing - Wood Mulch	201	CY	= Play Surface Place * -1.10

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PROJECT:
**2019
PLAYGROUND
REPLACEMENTS
- GROUP 1**

**WALNUT GROVE PARK
202 N WESTFIELD RD
MADISON, WI 53717**

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
Advised: 04-11-2019
Drawn by: KK 2-27-2019

PUBLIC WORKS PROJECT #:

9414

SHEET TITLE:
**DESIGN
CALCULATIONS**

SHEET NUMBER:
5.5

PROJECT:
**2019
 PLAYGROUND
 REPLACEMENTS-
 GROUP 1**

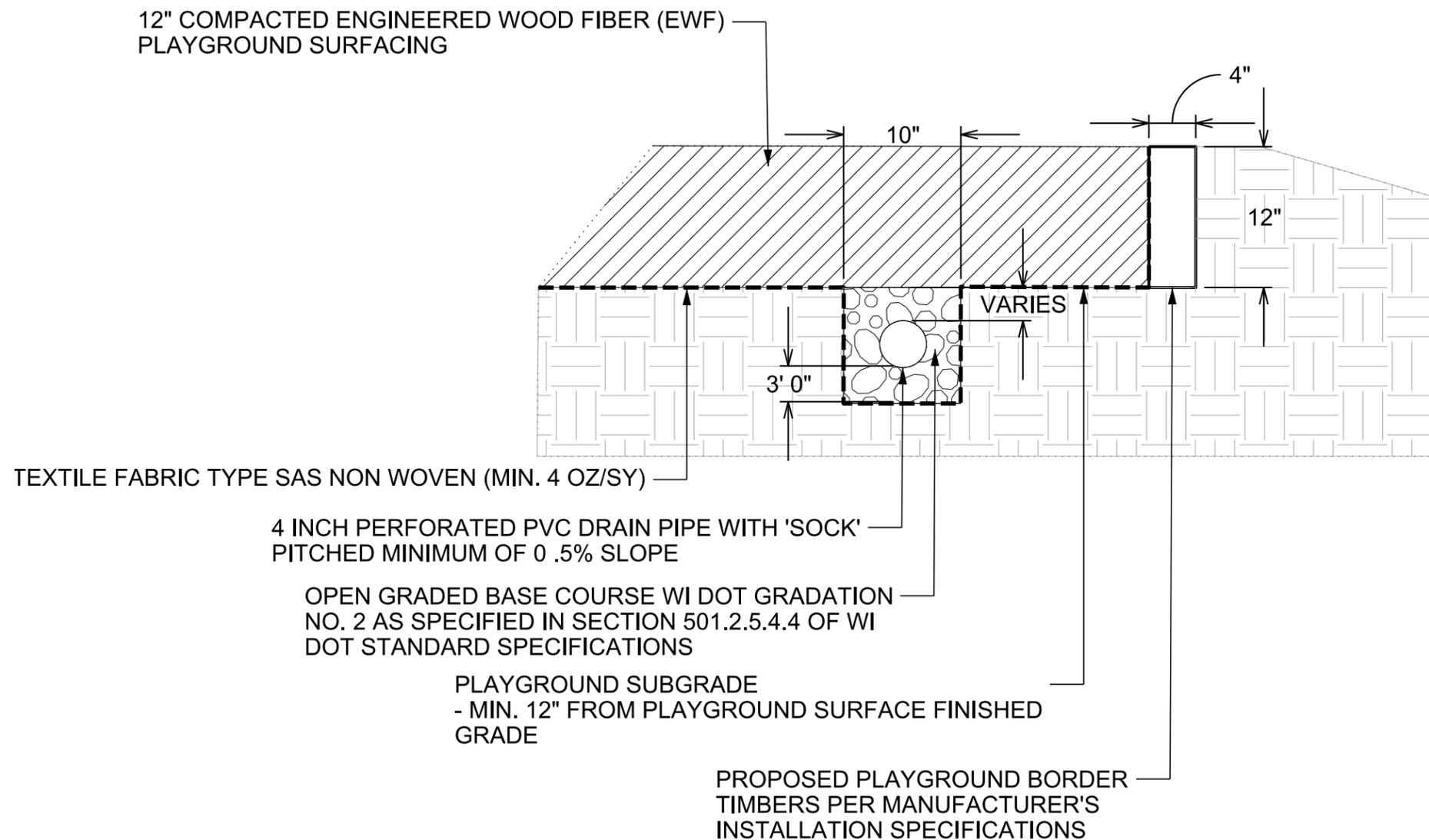
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ITEM	DATE
Drawn by: KK	02/26/2018

PUBLIC WORKS PROJECT #:
9414

SHEET TITLE:
**TYPICAL PLAYGROUND
 SURFACING WITH
 UNDERDRAIN**

SHEET NUMBER:
6.1



PROJECT:
*2019
 PLAYGROUND
 REPLACEMENTS-
 GROUP 1*

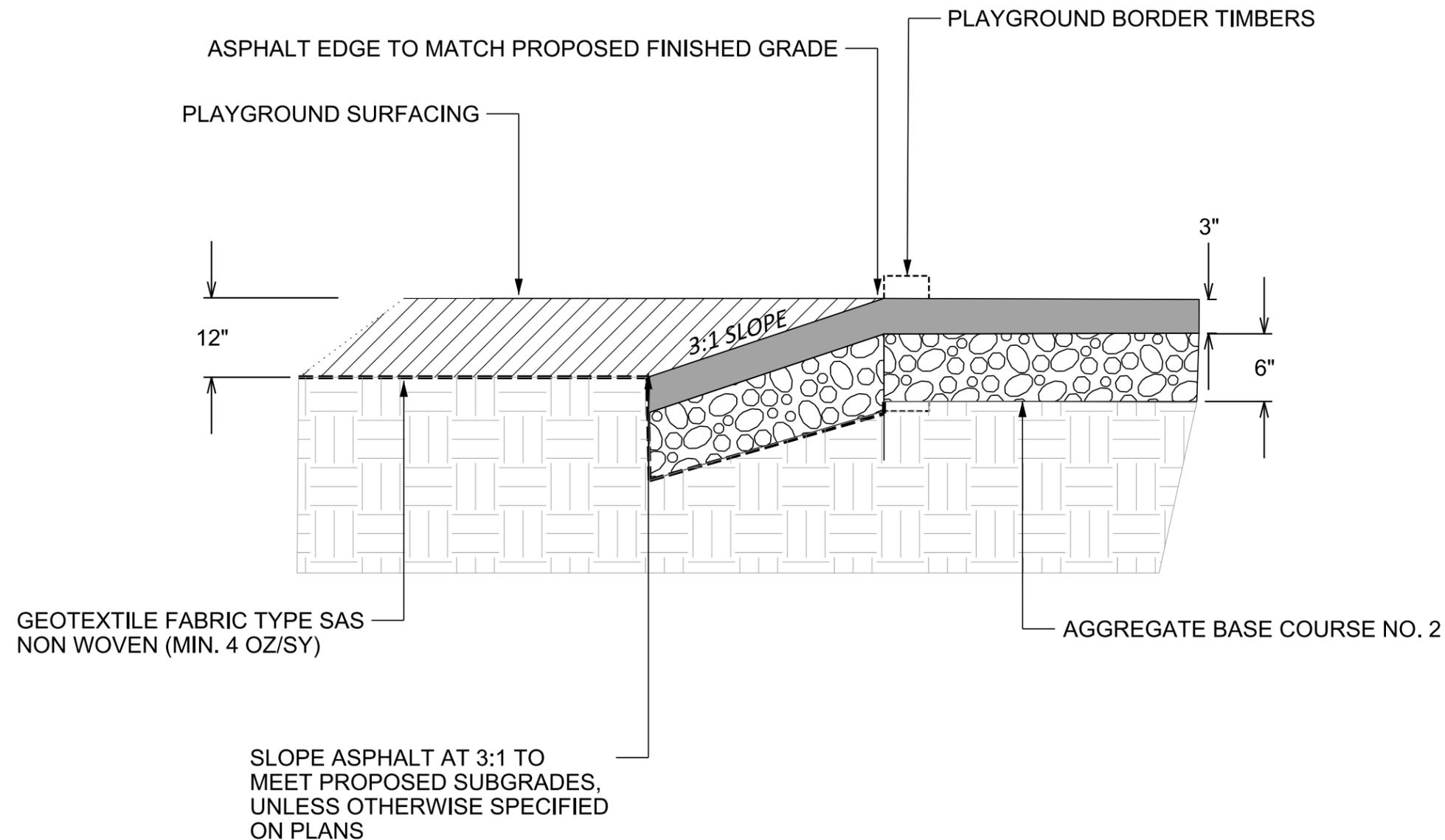
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ITEM	DATE
Drawn by: KK	02/26/2018

PUBLIC WORKS PROJECT #:
9414

SHEET TITLE:
**ASPHALT EDGE
 AT PLAYGROUND**

SHEET NUMBER:
6.2



PROJECT:
*2019
 PLAYGROUND
 REPLACEMENTS-
 GROUP 1*

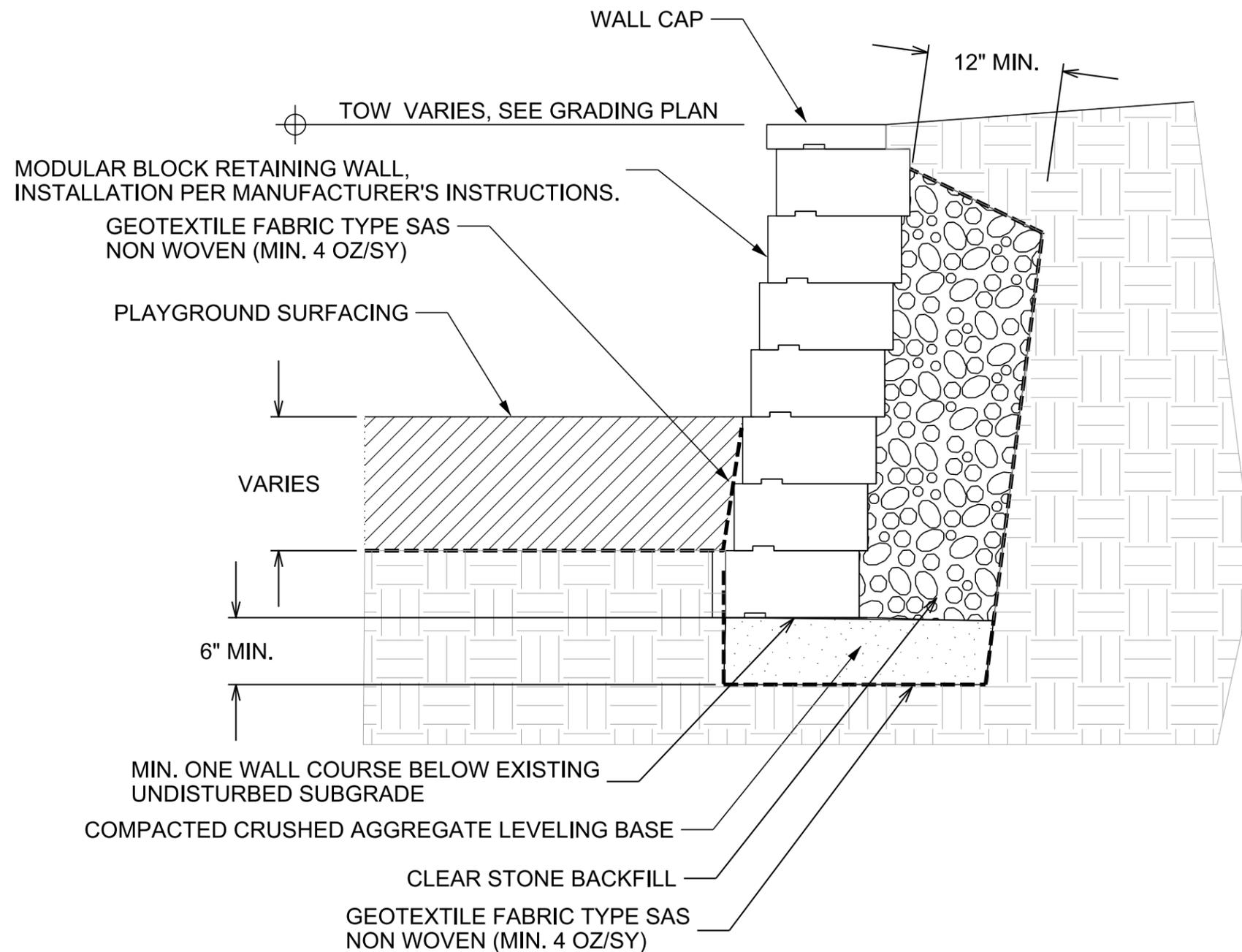
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ITEM	DATE
Drawn by: KK	02/26/2018

PUBLIC WORKS PROJECT #:
9414

SHEET TITLE:
**MODULAR BLOCK
 RETAINING WALL**

SHEET NUMBER:
6.3



PROJECT:
*2019
 PLAYGROUND
 REPLACEMENTS-
 GROUP 1*

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ITEM	DATE
Drawn by: KK	01/17/2019

PUBLIC WORKS PROJECT #:
9414

SHEET TITLE:
**MODULAR
 BLOCK SANDBOX**

SHEET NUMBER:
6.4

