

SHEET SCHEDULE

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

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

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

SHEET SCHEDULE (CONTINUED)

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

- 5.1 TYPICAL PLAYGROUND SURFACING WITH UNDERDRAIN
- 5.2 ASPHALT EDGE AT PLAYGROUND
- 5.3 MODULAR BLOCK RETAINING WALL

City of Madison
 Department of Public Works
PARKS DIVISION

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 PO Box 2987
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play
**MADISON
 PARKS**

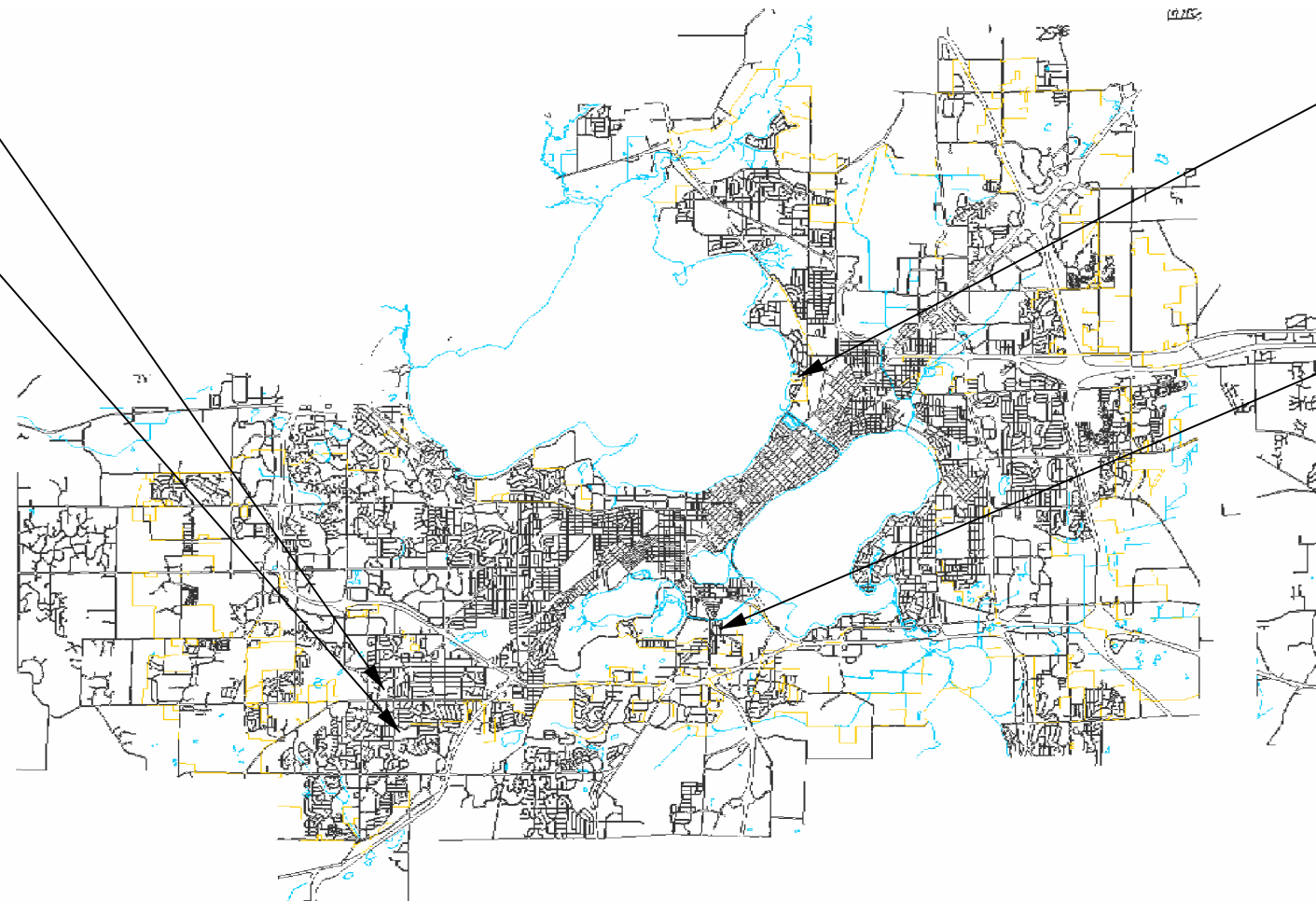


PROJECT:
*2014
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 2*

2014 PLAYGROUND IMPROVEMENTS - GROUP 2 CONTRACT 7362

LUCY LINCOLN HIESTAND PARK
 1506 PRAIRIE ROAD
 MADISON, WI 53711

HUEGEL PARK
 5902 WILLIAMSBURG WAY
 MADISON, WI 53711



BURROWS PARK
 25 BURROWS ROAD
 MADISON, WI 53704

FISHER STREET PARK
 1834 FISHER STREET
 MADISON, WI 537313

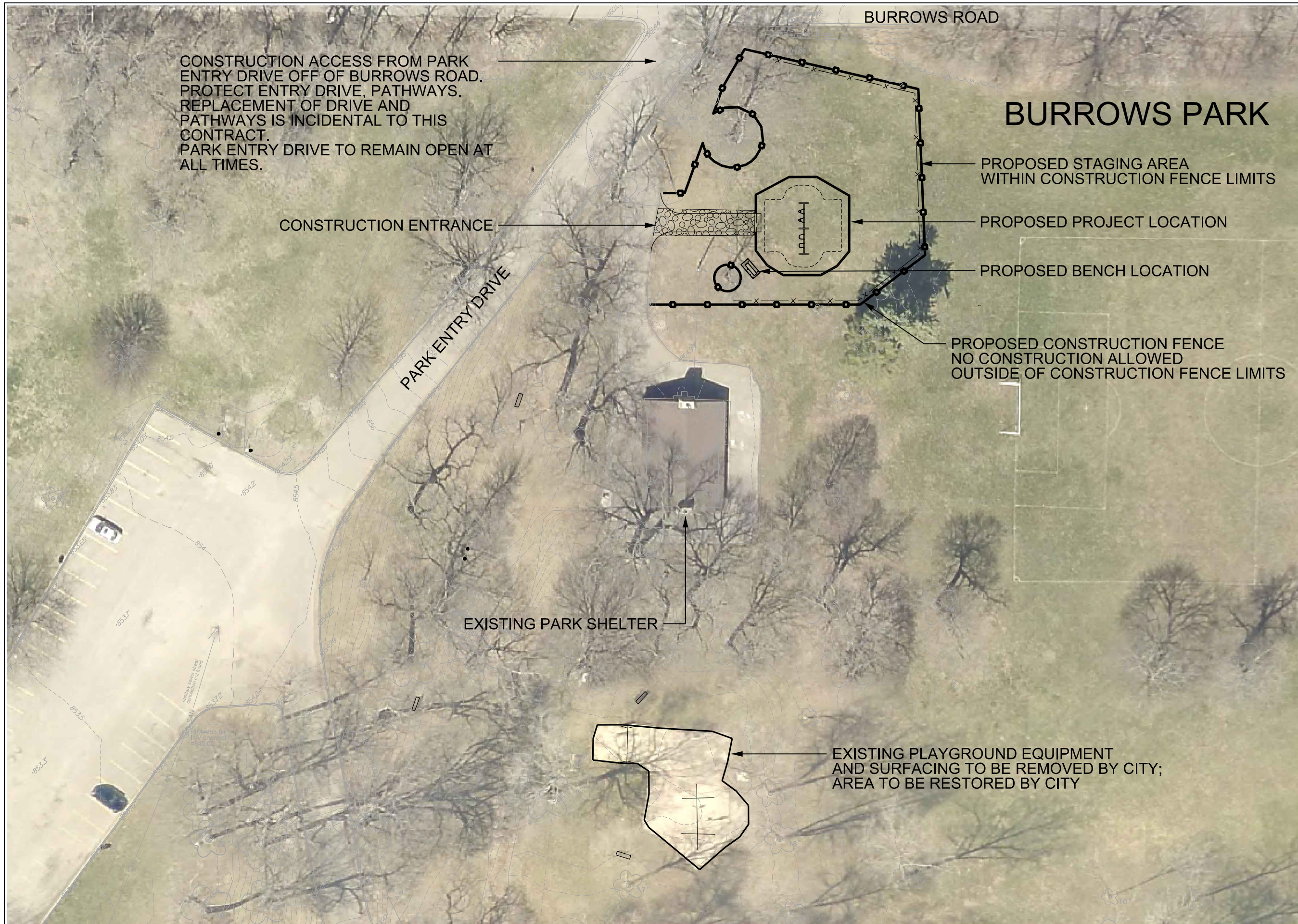
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM	DATE
Drawn by: SCL/MS/KK	06-06-2014

PUBLIC WORKS PROJECT #:
7362

SHEET TITLE:

SHEET NUMBER:



CONSTRUCTION ACCESS FROM PARK ENTRY DRIVE OFF OF BURROWS ROAD. PROTECT ENTRY DRIVE, PATHWAYS. REPLACEMENT OF DRIVE AND PATHWAYS IS INCIDENTAL TO THIS CONTRACT. PARK ENTRY DRIVE TO REMAIN OPEN AT ALL TIMES.

CONSTRUCTION ENTRANCE

PARK ENTRY DRIVE

EXISTING PARK SHELTER

EXISTING PLAYGROUND EQUIPMENT AND SURFACING TO BE REMOVED BY CITY; AREA TO BE RESTORED BY CITY

BURROWS ROAD

BURROWS PARK

PROPOSED STAGING AREA WITHIN CONSTRUCTION FENCE LIMITS

PROPOSED PROJECT LOCATION

PROPOSED BENCH LOCATION

PROPOSED CONSTRUCTION FENCE NO CONSTRUCTION ALLOWED OUTSIDE OF CONSTRUCTION FENCE LIMITS

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play
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Graphical Scale
0 40 ft **N**

PROJECT:
*2014
PLAYGROUND
IMPROVEMENTS
- GROUP 2*

*BURROWS PARK
25 BURROWS ROAD
MADISON, WI 53704*

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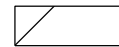

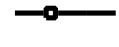




ITEM	DATE
Drawn by: KK	06-06-2014

PUBLIC WORKS PROJECT #:
7362

SHEET TITLE:
*PROJECT LOCATION
AND SITE ACCESS*

SHEET NUMBER:
1.1

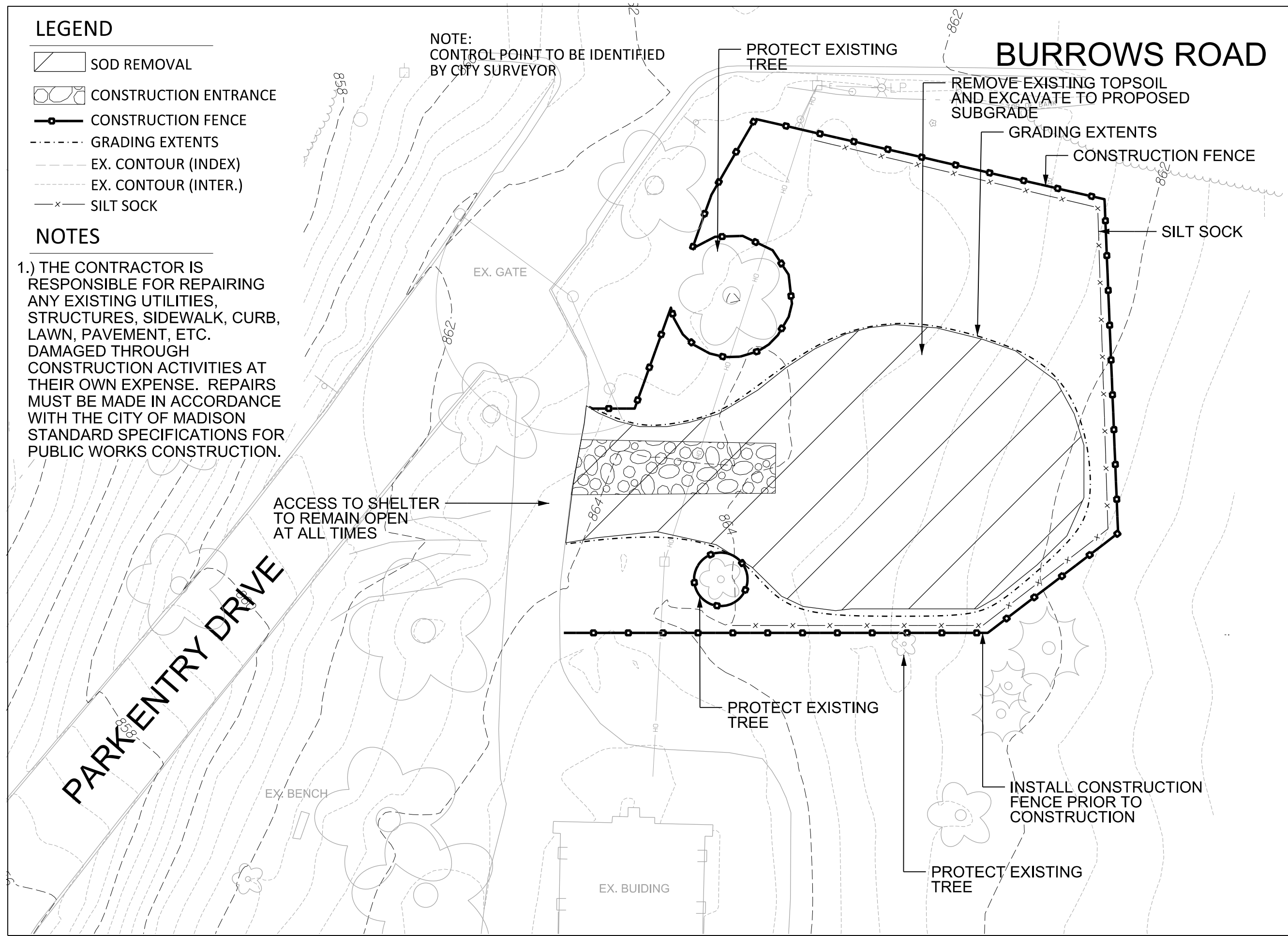
LEGEND

-  SOD REMOVAL
-  CONSTRUCTION ENTRANCE
-  CONSTRUCTION FENCE
-  GRADING EXTENTS
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  SILT SOCK

NOTES

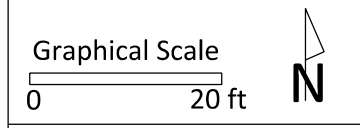
1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

NOTE:
CONTROL POINT TO BE IDENTIFIED
BY CITY SURVEYOR



BURROWS ROAD

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MADISON
PARKS



PROJECT:
*2014
PLAYGROUND
IMPROVEMENTS
- GROUP 2*

*BURROWS PARK
25 BURROWS ROAD
MADISON, WI 53704*

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PUBLIC WORKS PROJECT #:
7362

SHEET TITLE:
**DEMOLITION AND
PROTECTION PLAN**

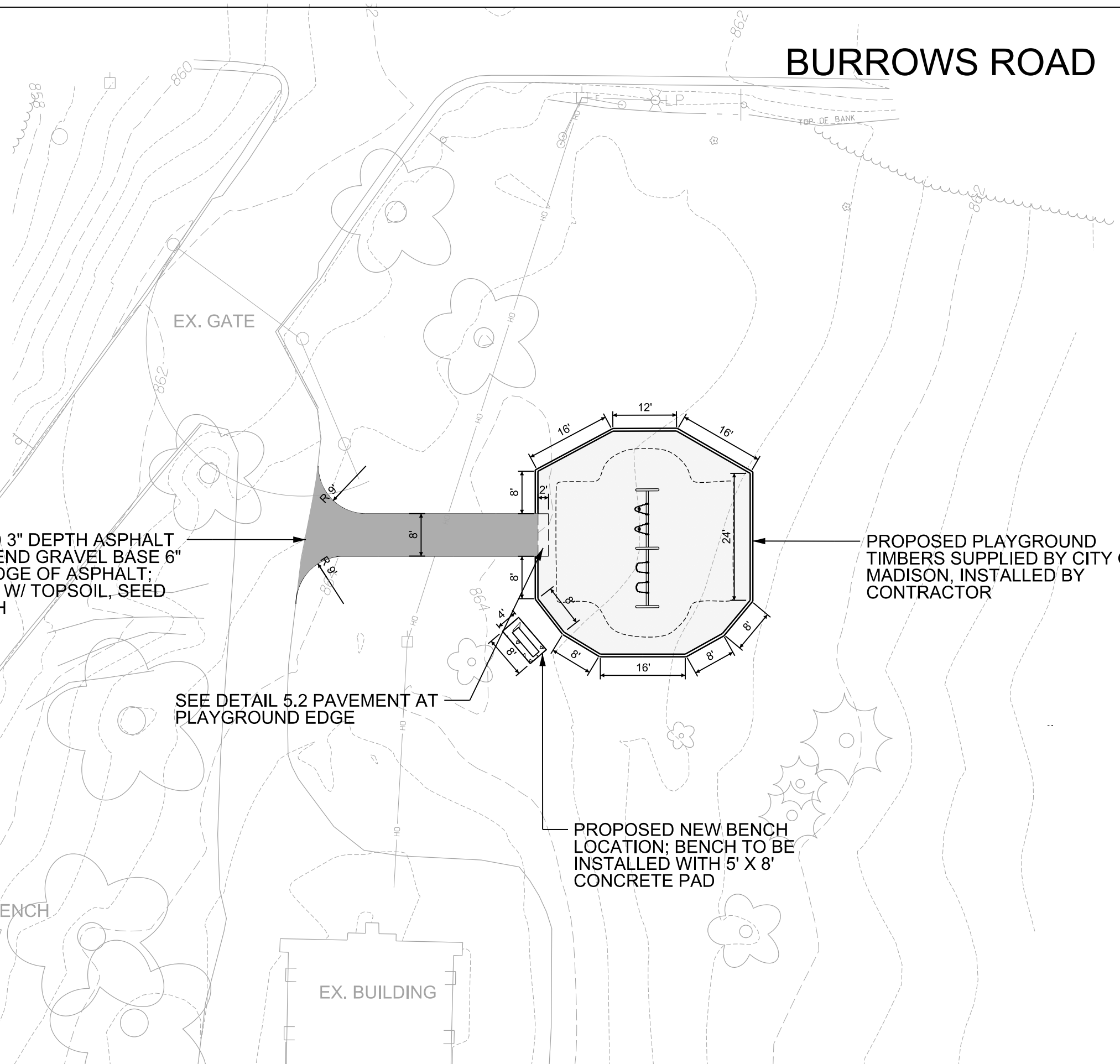
SHEET NUMBER:
1.2

LEGEND

- ASPHALT
- WOOD FIBER MULCH
- CONCRETE
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)

NOTES

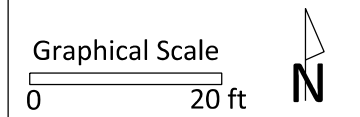
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BURROWS ROAD

PARK ENTRY DRIVE

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play
MADISON PARKS



PROJECT:
2014 PLAYGROUND IMPROVEMENTS - GROUP 2

BURROWS PARK
 25 BURROWS ROAD
 MADISON, WI 53704

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Drawn by: KK	06-06-2014

PUBLIC WORKS PROJECT #:
7362

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
1.3

Burrows Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract

Date Revised: 5/27/2014

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 Burrows_Survey2009-05-08.dtm ("Ex")

Proposed Pro_1.dtm

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 6in topsoil	n/a	n/a	2907	0.50	1454	53.8	0%	53.8
1.2	Grass to Grass	Subsoil Excavate	Cut subsoil to grass subgrade	Ex-6in	Pro-6in	2907	varies	27	1.0	0%	1.0
1.3	Grass to Grass	Subsoil Place	Fill subsoil to grass subgrade	Ex-6in	Pro-6in	2907	varies	-1741	-64.5	0%	-64.5
1.4	Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	2907	-0.50	-1454	-53.8	0%	-53.8
2.1	Grass to Gravel Bench	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	45	0.50	23	0.8	0%	0.8
2.2	Grass to Gravel Bench	Subsoil Place	Place subsoil to bench subgrade	Ex-6in	Pro-11in	45	varies	-21	-0.8	0%	-0.8
2.3	Grass to Gravel Bench	Gravel Place	Place 6in gravel base out 6in from concrete bench pad edge	n/a	n/a	45	-0.50	-23	-0.8	0%	-0.8
2.4	Grass to Gravel Bench	Concrete Place	Place bench pad concrete 4 ft x 8 ft x 5in thick	n/a	n/a	32	-0.42	-13	-0.5	0%	-0.5
2.5	Grass to Gravel Bench	Topsoil Place	Place topsoil on bench pad gravel edges	n/a	n/a	13	-0.42	-5	-0.2	0%	-0.2
3.1	Grass to Gravel Path	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	457	0.50	229	8.5	0%	8.5
3.2	Grass to Gravel Path	Subsoil Excavate	Cut subsoil to path subgrade	Ex-6in	Pro-12in	457	varies	189	7.0	0%	7.0
3.3	Grass to Gravel Path	Subsoil Place	Fill subsoil to path subgrade	Ex-6in	Pro-12in	457	varies	-3	-0.1	0%	-0.1
3.4	Grass to Gravel Path	Gravel Place	Place 9in path gravel out 6in from asphalt edges	n/a	n/a	457	-0.75	-343	-12.7	0%	-12.7
3.5	Grass to Gravel Path	Asphalt Place	Place 3in asphalt (including ramp into play surface)	n/a	n/a	402	-0.25	-101	-3.7	0%	-3.7
3.6	Grass to Gravel Path	Topsoil Place	Place 3in topsoil on path gravel edges	n/a	n/a	48	-0.25	-12	-0.4	0%	-0.4
3.7	Grass to Gravel Path	Play Surface Place	Place 3in play surface on path gravel edge in play area	n/a	n/a	7	-0.25	-2	-0.1	0%	-0.1
4.1	Grass to Play Surface	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	1448	0.50	724	26.8	0%	26.8
4.2	Grass to Play Surface	Subsoil Place	Fill subsoil to play subgrade	Ex-6in	Pro-12in	1448	varies	-892	-33.0	0%	-33.0
4.3	Grass to Play Surface	Play Surface Place	Place 12in wood chips	n/a	n/a	1448	-1.00	-1448	-53.6	0%	-53.6
5.1	Grass to Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	65	0.50	33	1.2	0%	1.2
5.2	Grass to Timbers	Subsoil Place	Place subsoil to base of border timbers	Ex-6in	Pro-12in	65	varies	-58	-2.1	0%	-2.1
5.3	Grass to Timbers	Timbers (placeholder volume)	Border timbers (placeholder volume to balance comps)	n/a	n/a	65	-1.00	-65	-2.4	0%	-2.4
8.1	Adjust	Subsoil Place	Reduce subsoil place by 1/2 of asphalt ramp gravel base volume = 1/2 x (3.5 ft x 9 ft x 12 in)	n/a	n/a	32	0.50	16	0.6	0%	0.6
8.2	Adjust	Play Surface Place	Increase play surface by 1/2 of asphalt ramp gravel base volume = 1/2 x (3.5 ft x 9 ft x 12 in)	n/a	n/a	32	-0.50	-16	-0.6	0%	-0.6

Burrows Park Playground - Earthwork Quantities

Date Revised: 5/27/2014

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	-3.7
Concrete Place	-0.5
Gravel Place	-13.5
Play Surface Place	-54.3
Subsoil Excavate	8.0
Subsoil Place	-99.9
Timbers (placeholder volume)	-2.4
Topsoil Excavate	91.1
Topsoil Place	-54.5
Grand Total	-129.7

Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	99	CY	= Subsoil Excavate + Topsoil Excavate
20201 Fill	92	CY	= Subsoil Excavate - Subsoil Place
20221 Topsoil	326	SY	= (Topsoil Place)/.167
40102 Crushed Aggregate Base Course Gradation No. 2 & 3	27	tons	= (Gravel Place) * 2 ton/cubic yard
40201 3" Depth HMA Pavement Type E-0.3	8.0	tons	= Asphalt Place * 2.16 ton/cubic yard
90003 Playground Surfacing - Wood Chips	54	CY	

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PROJECT:

*2014
PLAYGROUND
IMPROVEMENTS
- GROUP 2*

*BURROWS PARK
25 BURROWS ROAD
MADISON, WI 53704*

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ITEM DATE
Drawn by: KK 06-06-2014

PUBLIC WORKS PROJECT #:

7362












SHEET TITLE:

*DESIGN
CALCULATIONS*

SHEET NUMBER:

1.5

LEGEND

-  SOD REMOVAL
-  EXCAVATION CUT - PEA GRAVEL
-  CONCRETE PAVEMENT REMOVAL
-  UNIT RETAINING WALL REMOVAL
-  CONSTRUCTION ENTRANCE
-  CONSTRUCTION FENCE
-  GRADING EXTENTS
-  SILT SOCK
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  EX. APPROX. R-O-W

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.

2.) CONTROL POINT TO BE IDENTIFIED BY CITY SURVEYOR.

REMOVE EXISTING TOPSOIL AND EXCAVATE TO PROPOSED SUBGRADE

REMOVE EXISTING BENCH

PLACE CONSTRUCTION FENCE PRIOR TO CONSTRUCTION

PROTECT EXISTING TREE

EXISTING PLAY EQUIPMENT TO BE REMOVED BY CITY. EX. PEA GRAVEL TO BE REMOVED BY CONTRACTOR.

PLACE SILT SOCK PRIOR TO CONSTRUCTION

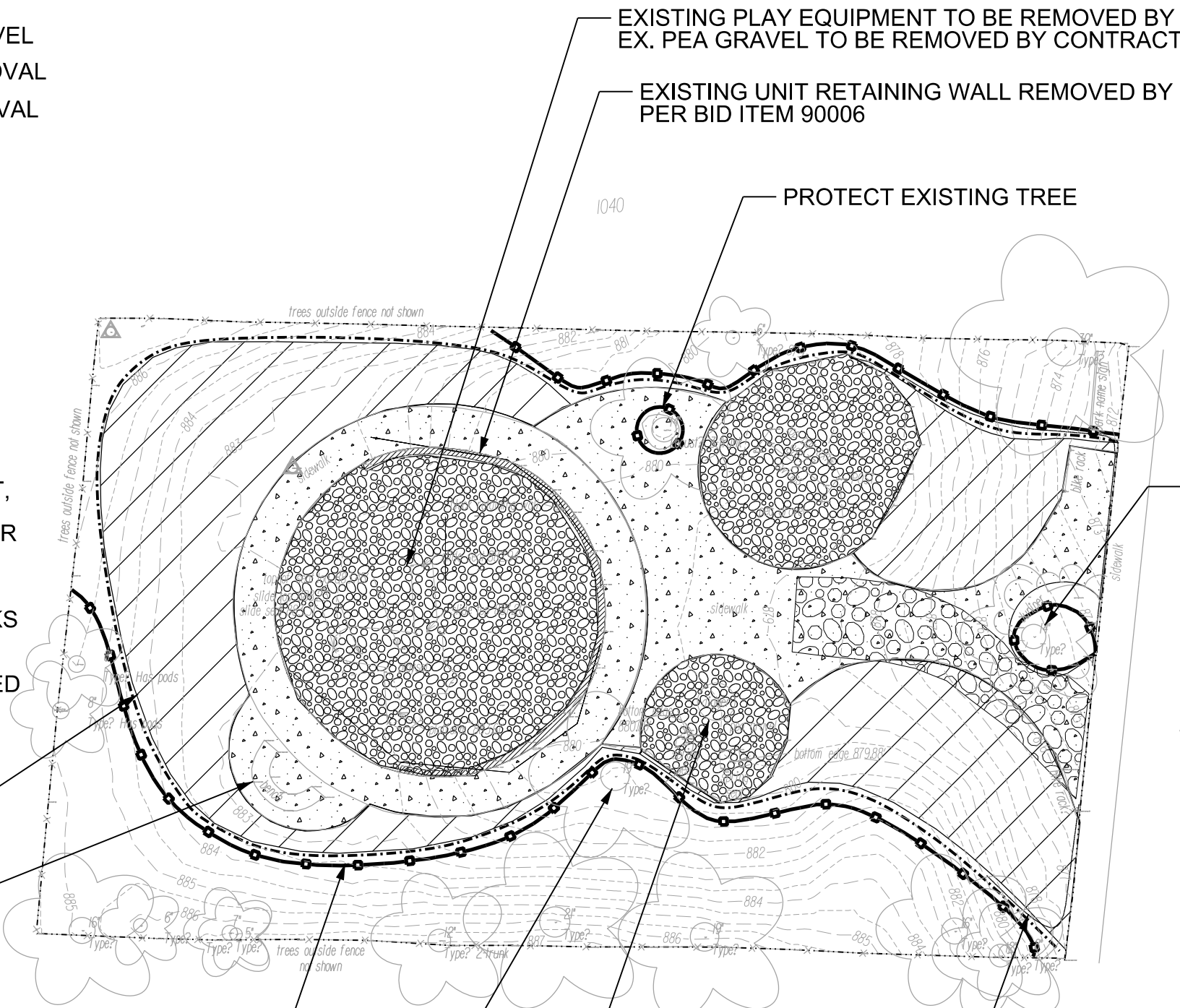
EXISTING PLAY EQUIPMENT TO BE REMOVED BY CITY. EX. PEA GRAVEL TO BE REMOVED BY CONTRACTOR.

EXISTING UNIT RETAINING WALL REMOVED BY CONTRACTOR PER BID ITEM 90006

PROTECT EXISTING TREE

PROTECT EXISTING TREE


FISHER STREET



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PARKS DIVISION

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play
MADISON PARKS

Graphical Scale
0 20 ft 

PROJECT:
2014 PLAYGROUND IMPROVEMENTS -GROUP 2

FISHER STREET PARK
1834 FISHER ST
MADISON, WI

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ITEM	DATE
Drawn by: MS	06-06-14

PUBLIC WORKS PROJECT #:
7362

SHEET TITLE:
DEMOLITION AND PROTECTION PLAN

SHEET NUMBER:
2.2

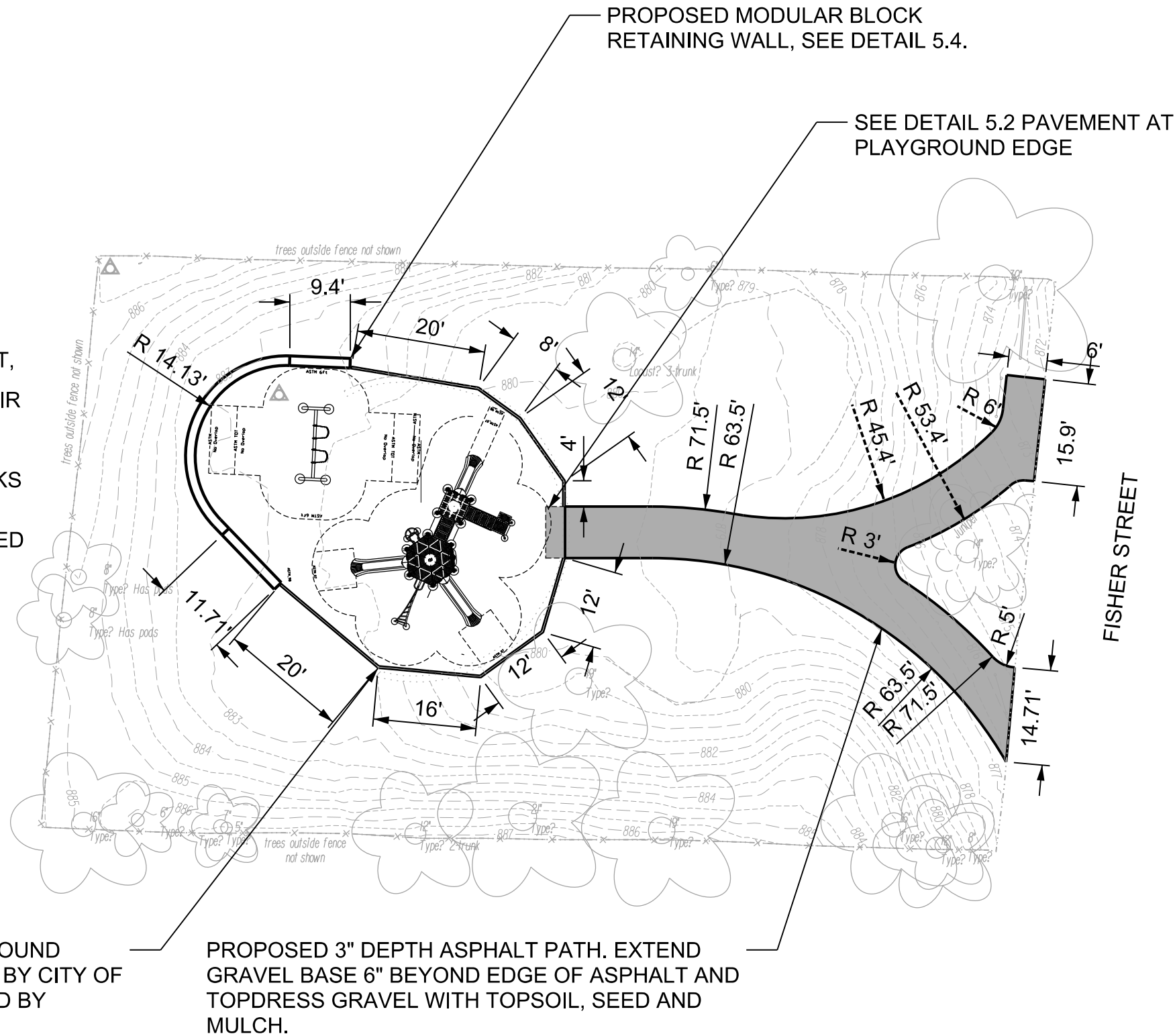
LEGEND

- ASPHALT
- WOOD FIBER MULCH
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)
- - - - EX. APPROX. R-O-W
- CONSTRUCTION FENCE
- · - · - GRADING EXTENTS
- x - SILT SOCK

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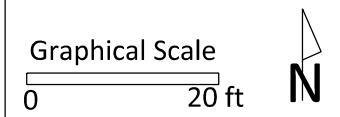
2.) CONTROL POINT TO BE IDENTIFIED BY CITY SURVEYOR.



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PROJECT:
2014 PLAYGROUND IMPROVEMENTS -GROUP 2

FISHER STREET PARK
 1834 FISHER ST
 MADISON, WI

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






ITEM	DATE
Drawn by: MS	06-06-14

PUBLIC WORKS PROJECT #:
7362

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
2.3

LEGEND

-  ASPHALT
-  WOOD FIBER MULCH
-  EROSION MATTING, CLASS I URBAN TYPE A - ORGANIC
-  CONSTRUCTION ENTRANCE
-  GRADING EXTENTS
-  CONSTRUCTION FENCE
-  SILT SOCK
-  DRAIN TILE
-  CONTOUR (INDEX)
-  CONTOUR (INTER.)
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  EX. APPROX. R-O-W
-  TOP OF WALL

PROPOSED MODULAR BLOCK RETAINING WALL, SEE DETAIL 5.3.

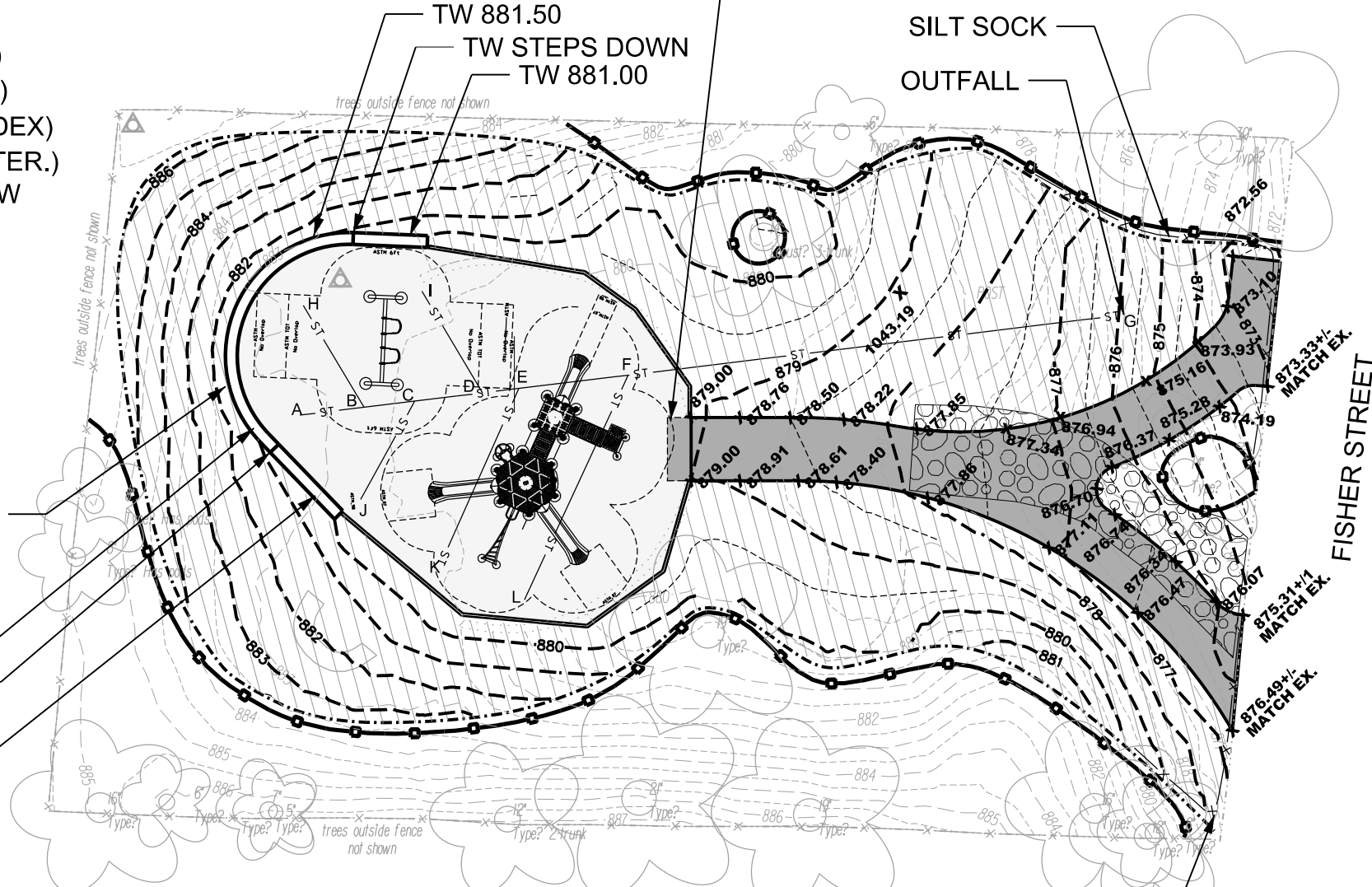
TW 881.50

TW STEPS DOWN

TW 881.00

SEE DETAIL 5.2 PAVEMENT AT PLAYGROUND EDGE

PROTECT 2 INLETS AT THE INTERSECTION OF FISHER STREET AND W. WINGRA STREET WITH TYPE H INLET PROTECTION.



NOTES

1. PLACE 4 OZ PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 5.1.
2. PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED ON PLANS.

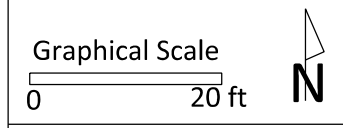
EDGE OF PLAYGROUND BORDER TIMBERS: 879.17
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 879.0
 PLAYGROUND SUBGRADE ELEVATION: 878.0
 ASPHALT AT PLAYGROUND ELEVATION: 879.0

Fisher Street Park Playground		
Drain Tile Invert (Flowline) Elevations		
Point	Invert (ft)	Distance from top of timbers 879.17 (INCHES)
A	877.1	24.8
B	876.97	26.4
C	876.9	27.2
D	876.82	28.2
E	876.77	28.8
F	876.63	30.5
G	876	38.0
H	877.41	21.1
I	877.41	21.1
J	877.41	21.1
K	877.41	21.1
L	877.41	21.1

from intersection to intersection			
From	To	Length (ft)	Slope (%)
A	B	8.19	-1.59
B	C	6.45	-1.09
C	D	8.63	-0.93
D	E	4.6	-1.09
E	F	13.94	-1.00
F	G	63.144	-1.00
H	B	14.98	-2.94
I	D	14.98	-3.94
J	C	14.18	-3.60
K	E	24.72	-2.59
L	F	31.27	-2.49

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PROJECT: **2014 PLAYGROUND IMPROVEMENTS -GROUP 2**

FISHER STREET PARK
 1834 FISHER ST
 MADISON, WI

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PUBLIC WORKS PROJECT #: **7362**

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

SHEET NUMBER: **2.4**

Fisher Park Playground - Earthwork Quantities											
City of Madison, WI Public Works Contract											
Date Revised: 6/3/2014											
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	Fisher_Survey2014-01-13.dtm ("Ex")										
Proposed	FisherProp3.dtm ("Pro")										

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	Conc to Asphalt	Concrete Excavate	Remove existing sidewalk	n/a	n/a	810	0.42	338	12.5	0%	12.5
1.2	Conc to Asphalt	Gravel Excavate	Remove existing gravel base under sidewalk	n/a	n/a	810	0.50	405	15.0	0%	15.0
1.3	Conc to Asphalt	Subsoil Excavate	Cut subsoil to proposed path subgrade	Ex-11in	Pro-12in	810	varies	519	19.2	0%	19.2
1.4	Conc to Asphalt	Subsoil Place	Fill subsoil to proposed path subgrade	Ex-11in	Pro-12in	810	varies	-12	-0.4	0%	-0.4
1.5	Conc to Asphalt	Path Gravel Place	Place 9in gravel base out 6in from asphalt edge	n/a	n/a	810	-0.75	-608	-22.5	0%	-22.5
1.6	Conc to Asphalt	Asphalt Place	Place 3in asphalt, including ramp into playground	n/a	n/a	731	-0.25	-183	-6.8	0%	-6.8
1.7	Conc to Asphalt	Topsoil Place	Place 3in topsoil on path gravel edges	n/a	n/a	72	-0.25	-18	-0.7	0%	-0.7
1.8	Conc to Asphalt	Play Surface Place	Place 3in play surface on gravel edge of path ramp into playground	n/a	n/a	7	-0.25	-2	-0.1	0%	-0.1
2.1	Conc to Timbers	Concrete Excavate	Remove existing sidewalk	n/a	n/a	10	0.42	4	0.2	0%	0.2
2.2	Conc to Timbers	Gravel Excavate	Remove existing gravel base under sidewalk	n/a	n/a	10	0.50	5	0.2	0%	0.2
2.3	Conc to Timbers	Subsoil Excavate	Cut subsoil to bottom of proposed border timbers	Ex-11in	Pro-12in	10	varies	17	0.6	0%	0.6
2.4	Conc to Timbers	Timbers (placeholder volume)	Border Timbers (placeholder volume to balance volume comps)	n/a	n/a	10	-1.00	-10	-0.4	0%	-0.4
3.1	Conc to Lawn	Concrete Excavate	Remove existing sidewalk	n/a	n/a	1703	0.42	710	26.3	0%	26.3
3.2	Conc to Lawn	Gravel Excavate	Remove existing gravel base under sidewalk	n/a	n/a	1703	0.50	852	31.5	0%	31.5
3.3	Conc to Lawn	Subsoil Excavate	Cut subsoil to proposed grass subgrade	Ex-11in	Pro-6in	1703	varies	688	24.7	0%	24.7
3.4	Conc to Lawn	Subsoil Place	Fill subsoil to proposed grass subgrade	Ex-11in	Pro-6in	1703	varies	-283	-9.7	0%	-9.7
3.5	Conc to Lawn	Topsoil Place	Place 6in topsoil	n/a	n/a	1703	-0.50	-852	-31.5	0%	-31.5
4.1	Conc to Playsurface	Concrete Excavate	Remove existing sidewalk	n/a	n/a	221	0.42	92	3.4	0%	3.4
4.2	Conc to Playsurface	Gravel Excavate	Remove existing gravel base under sidewalk	n/a	n/a	221	0.50	111	4.1	0%	4.1
4.3	Conc to Playsurface	Subsoil Excavate	Cut subsoil to proposed play subgrade	Ex-11in	Pro-12in	221	varies	840	31.1	0%	31.1
4.4	Conc to Playsurface	Play Surface Place	Place 12in wood chips	n/a	n/a	221	-1.00	-221	-8.2	0%	-8.2
5.1	Conc to Wall	Concrete Excavate	Remove existing sidewalk	n/a	n/a	37	0.42	15	0.6	0%	0.6
5.2	Conc to Wall	Gravel Excavate	Remove existing gravel base under sidewalk	n/a	n/a	37	0.50	19	0.7	0%	0.7
5.3	Conc to Wall	Subsoil Excavate	Cut subsoil to proposed wall subgrade (24in below play surface)	Ex-11in	877ft	37	varies	188	7.0	0%	7.0
5.4	Conc to Wall	Wall Gravel Place	Place Wall (placeholder volume to balance volume comps - see later adjustments for wall gravel)	877ft	Pro	37	varies	-118	-4.4	0%	-4.4
6.1	Lawn to Asphalt	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	320	0.50	160	5.9	0%	5.9
6.2	Lawn to Asphalt	Subsoil Excavate	Cut subsoil to proposed path subgrade	Ex-6in	Pro-12in	320	varies	285	10.5	0%	10.5
6.3	Lawn to Asphalt	Path Gravel Place	Place 9in gravel base out 6in from asphalt edge	n/a	n/a	320	-0.75	-240	-8.9	0%	-8.9
6.4	Lawn to Asphalt	Asphalt Place	Place 3in asphalt, including ramp into playground	n/a	n/a	283	-0.25	-71	-2.6	0%	-2.6
6.5	Lawn to Asphalt	Topsoil Place	Place 3in topsoil on path gravel edges	n/a	n/a	37	-0.25	-9	-0.3	0%	-0.3
7.1	Lawn to Lawn	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	2874	0.50	1437	53.2	0%	53.2
7.2	Lawn to Lawn	Subsoil Excavate	Cut subsoil to proposed grass subgrade	Ex-6in	Pro-6in	2874	varies	1083	40.1	0%	40.1
7.3	Lawn to Lawn	Subsoil Place	Fill subsoil to proposed grass subgrade	Ex-6in	Pro-6in	2874	varies	-82	-3.0	0%	-3.0
7.4	Lawn to Lawn	Topsoil Place	Place 6in topsoil	n/a	n/a	2874	-0.50	-1437	-53.2	0%	-53.2
8.1	Lawn to Playsurface	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	149	0.50	75	2.8	0%	2.8
8.2	Lawn to Playsurface	Subsoil Excavate	Cut subsoil to proposed play subgrade	Ex-6in	Pro-12in	149	varies	661	24.5	0%	24.5
8.3	Lawn to Playsurface	Play Surface Place	Place 12in wood chips	n/a	n/a	149	-1.00	-149	-5.5	0%	-5.5
9.1	Lawn to Wall	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	109	0.50	55	2.0	0%	2.0

9.2	Lawn to Wall	Subsoil Excavate	Cut subsoil to proposed wall subgrade (24in below play surface)	Ex-6in	877ft	109	varies	602	22.3	0%	22.3
9.3	Lawn to Wall	Wall Gravel Place	Place Wall (placeholder volume to balance volume comps - see later adjustments for wall gravel)	877ft	Pro	109	varies	-408	-15.1	0%	-15.1
10.1	Playsurface to Lawn	Pea Gravel Excavate	Remove pea gravel (assume 17in)	n/a	n/a	1127	1.42	1597	59.1	0%	59.1
10.2	Playsurface to Lawn	Subsoil Excavate	Cut subsoil to proposed grass subgrade	Ex-17in	Pro-6in	1127	varies	155	5.7	0%	5.7
10.3	Playsurface to Lawn	Subsoil Place	Fill subsoil to proposed grass subgrade	Ex-17in	Pro-6in	1127	varies	-600	-22.2	0%	-22.2
10.4	Playsurface to Lawn	Topsoil Place	Place 6in topsoil	n/a	n/a	1127	-0.50	-564	-20.9	0%	-20.9
11.1	Playsurface to Playsurface	Pea Gravel Excavate	Remove pea gravel (assume 17in)	n/a	n/a	1594	1.42	2258	83.6	0%	83.6
11.2	Playsurface to Playsurface	Subsoil Excavate	Cut subsoil to proposed grass subgrade	Ex-17in	Pro-12in	1594	varies	4714	174.6	0%	174.6
11.3	Playsurface to Playsurface	Play Surface Place	Place 12in wood chips	n/a	n/a	1594	-1.00	-1594	-59.0	0%	-59.0
12.1	Playsurface to Timbers	Pea Gravel Excavate	Remove pea gravel (assume 17in)	n/a	n/a	10	1.42	14	0.5	0%	0.5
12.2	Playsurface to Timbers	Subsoil Excavate	Cut subsoil to bottom of proposed border timbers	Ex-17in	Pro-12in	10	varies	30	1.1	0%	1.1
12.3	Playsurface to Timbers	Timbers (placeholder volume)	Border Timbers (placeholder volume to balance volume comps)	n/a	n/a	10	-1.00	-10	-0.4	0%	-0.4
13.1	Playsurface to Wall	Pea Gravel Excavate	Remove pea gravel (assume 17in)	n/a	n/a	2	1.42	3	0.1	0%	0.1
13.2	Playsurface to Wall	Subsoil Excavate	Cut subsoil to proposed wall subgrade (24in below play surface)	Ex-6in	877ft	2	varies	9	0.3	0%	0.3
13.3	Playsurface to Wall	Wall Gravel Place	Place Wall (placeholder volume to balance volume comps - see later adjustments for wall gravel)	877ft	Pro	2	varies	-5	-0.2	0%	-0.2
14.1	Wall to Lawn	Wall Excavate	Remove existing retaining wall (assume down 12in below existing sidewalk)	Ex	Ex_Wall Sub	24	varies	58	2.1	0%	2.1
14.2	Wall to Lawn	Subsoil Excavate	Cut subsoil to proposed grass subgrade	Ex_WallSub	Pro-6in	24	varies	23	0.8	0%	0.8
14.3	Wall to Lawn	Topsoil Place	Place 6in topsoil	n/a	n/a	24	-0.50	-12	-0.4	0%	-0.4
15.1	Wall to Playsurface	Wall Excavate	Remove existing retaining wall (assume down 12in below existing sidewalk)	Ex	Ex_Wall Sub	45	varies	124	4.6	0%	4.6
15.2	Wall to Playsurface	Subsoil Excavate	Cut subsoil to proposed play subgrade	Ex_WallSub	Pro-12in	45	varies	69	2.5	0%	2.5
15.3	Wall to Playsurface	Play Surface Place	Place 12in wood chips	n/a	n/a	45	-1.00	-45	-1.7	0%	-1.7
16.1	Wall to Timbers	Wall Excavate	Remove existing retaining wall (assume down 12in below existing sidewalk)	Ex	Ex_Wall Sub	14	varies	45	1.7	0%	1.7
16.2	Wall to Timbers	Subsoil Excavate	Cut subsoil to bottom of proposed border timbers	Ex_WallSub	Pro-12in	14	varies	15	0.6	0%	0.6
16.3	Wall to Timbers	Timbers (placeholder volume)	Border Timbers (placeholder volume to balance volume comps)	n/a	n/a	14	-1.00	-14	-0.5	0%	-0.5
17.1	Adjust	Subsoil Excavate	Increase subsoil excavate by 1/2 of asphalt ramp gravel base volume = 1/2 x (3.5 ft x 9 ft x 12 in)	n/a	n/a	32	0.50	16	0.6	0%	0.6
17.2	Adjust	Play Surface Place	Increase play surface by 1/2 of asphalt ramp gravel base volume = 1/2 x (3.5 ft x 9 ft x 12 in)	n/a	n/a	32	-0.50	-16	-0.6	0%	-0.6
18.1	Adjust	Subsoil Excavate	Drain tile trench - approx 205 ft x 1ft wide x average 2ft deep	n/a	n/a	205	2.00	410	15.2	0%	15.2
18.2	Adjust	Drain Tile (placeholder volume)	Drain Tile 205 ft x 4in diam (0.09 sq ft cross section). Placeholder volume to balance volume comps	n/a	n/a	205	-0.09	-18	-0.7	0%	-0.7
18.3	Adjust	Drain Tile Stone Place	Drain tile stone - 150 ft inside play surface x 1ft wide x average 2ft deep, excluding pipe volume (separate item)	n/a	n/a	150	-1.91	-287	-10.6	0%	-10.6
18.4	Adjust	Subsoil Place	Drain tile subsoil backfill outside play area - 55 ft long x 1ft wide x average 2ft deep, excluding pipe volume	n/a	n/a	55	-1.91	-105	-3.9	0%	-3.9
19.1	Adjust	Wall Gravel Place	Reduce Wall Gravel Place volume by estimated wall volume (206 sq ft face area down to 18 in below top of play surface, x 6in block depth)	n/a	n/a	n/a	n/a	103	3.8	0%	3.8
19.2	Adjust	Wall Place (placeholder volume)	Estimated wall volume (206 sq ft face area down to 18 in below top of play surface, x 6in block depth)	n/a	n/a	n/a	n/a	-103	-3.8	0%	-3.8
19.3	Adjust	Wall Gravel Place	Reduce Wall Gravel Place volume by topsoil behind wall	n/a	n/a	61	0.50	31	1.1	0%	1.1
19.4	Adjust	Topsoil Place	Place 6in topsoil	n/a	n/a	61	-0.50	-31	-1.1	0%	-1.1

Fisher Street Park Playground - Earthwork Quantities											
Date Revised: 6/3/2014											
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	-9.4
Concrete Excavate	42.9
Drain Tile (placeholder volume)	-0.7
Drain Tile Stone Place	-10.6
Gravel Excavate	51.5
Path Gravel Place	-31.4
Pea Gravel Excavate	143.4
Play Surface Place	-75.1
Subsoil Excavate	381.6
Subsoil Place	-39.3
Timbers (placeholder volume)	-1.3
Topsoil Excavate	63.9
Topsoil Place	-108.2
Wall Excavate	8.4
Wall Place (placeholder volume)	-3.8
Wall Gravel Place	-14.7
Grand Total	397.2

Reorganized into bid table items

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	445.5	CY	= Subsoil Excavate + Topsoil Excavate
20103 Excavation Cut- Pea Gravel	143.4	CY	= Play Surface Excavate
20201 Fill	-342.3	CY	= Subsoil Excavate - Subsoil Place
20221 Topsoil	647.9	SY	= (Topsoil Place)/.167
40102 Crushed Aggregate Base Course Gradation No. 2 & 3	62.8	tons	= (Gravel Place) * 2 ton/cubic yard
40201 3" Depth HMA Pavement Type E-0.3	20.3	tons	= Asphalt Place * 2.16 ton/cubic yard
90003 Playground Surfacing - Wood Fiber Mulch	90.1	CY	= Play Surface Place *1.20

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PROJECT:
2014 PLAYGROUND IMPROVEMENTS -GROUP 2

**FISHER STREET PARK
1834 FISHER ST
MADISON, WI**

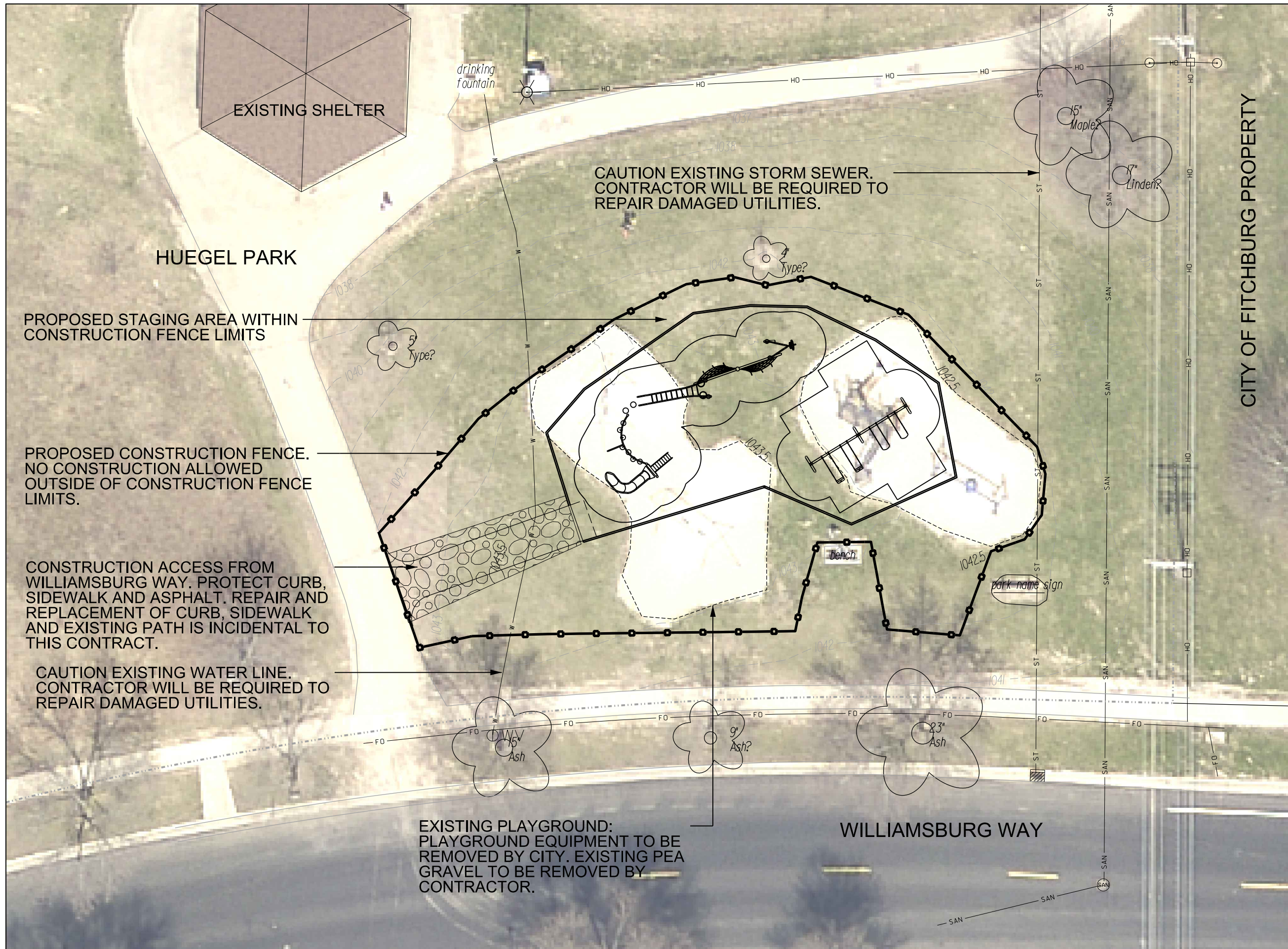
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM	DATE
Drawn by: MS	06-06-14

PUBLIC WORKS PROJECT #:
7362

SHEET TITLE:
DESIGN CALCULATIONS

SHEET NUMBER:
2.5

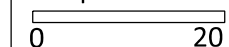


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play
MADISON
PARKS

Graphical Scale



PROJECT:
2014
PLAYGROUND
IMPROVEMENTS
- GROUP 2

HUEGEL PARK
5902 WILLIAMSBURG
WAY
MADISON, WI 53719

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








ITEM	DATE
Drawn by: SCL	06-06-2014

PUBLIC WORKS PROJECT #:
7362

SHEET TITLE:
PROJECT LOCATION
AND SITE ACCESS

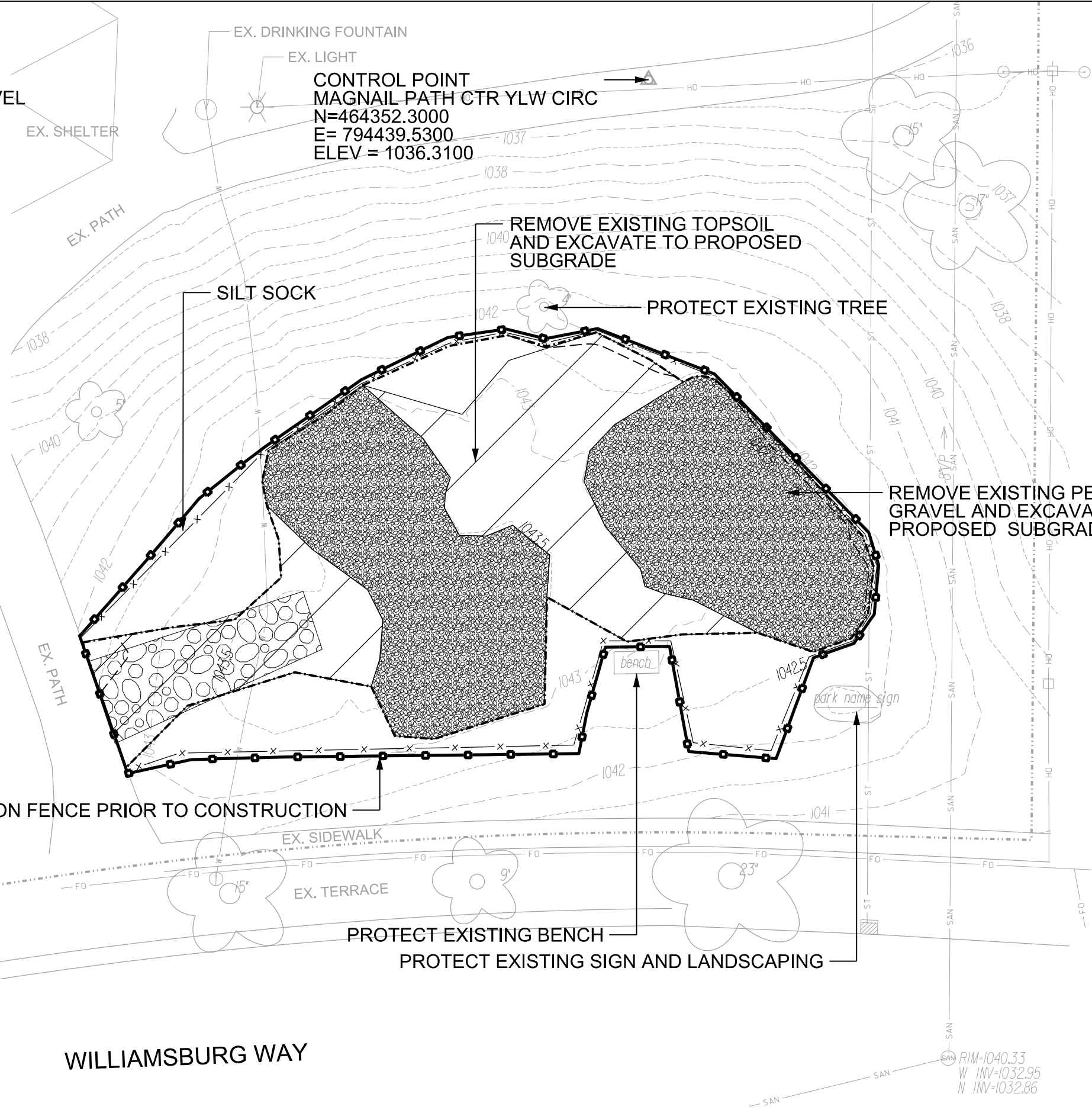
SHEET NUMBER:
3.1

LEGEND

-  SOD REMOVAL
-  EXCAVATION CUT - PEA GRAVEL
-  CONSTRUCTION ENTRANCE
-  CONSTRUCTION FENCE
-  GRADING EXTENTS
-  SILT SOCK
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  EX. APPROX. R-O-W

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.



PLACE CONSTRUCTION FENCE PRIOR TO CONSTRUCTION


PROTECT EXISTING BENCH
PROTECT EXISTING SIGN AND LANDSCAPING

WILLIAMSBURG WAY

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Department of Public Works
PARKS DIVISION

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play
**MADISON
PARKS**

Graphical Scale
0 20 ft 

PROJECT:
*2014
PLAYGROUND
IMPROVEMENTS
- GROUP 2*

*HUEGEL PARK
5902 WILLIAMSBURG
WAY
MADISON, WI 53719*

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
Drawn by: SCL	06-06-2014

PUBLIC WORKS PROJECT #:
7362

SHEET TITLE:
**DEMOLITION AND
PROTECTION PLAN**

SHEET NUMBER:
3.2

LEGEND

- ASPHALT
- RUBBER MULCH
- DRAIN TILE
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)
- EX. APPROX. R-O-W

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.

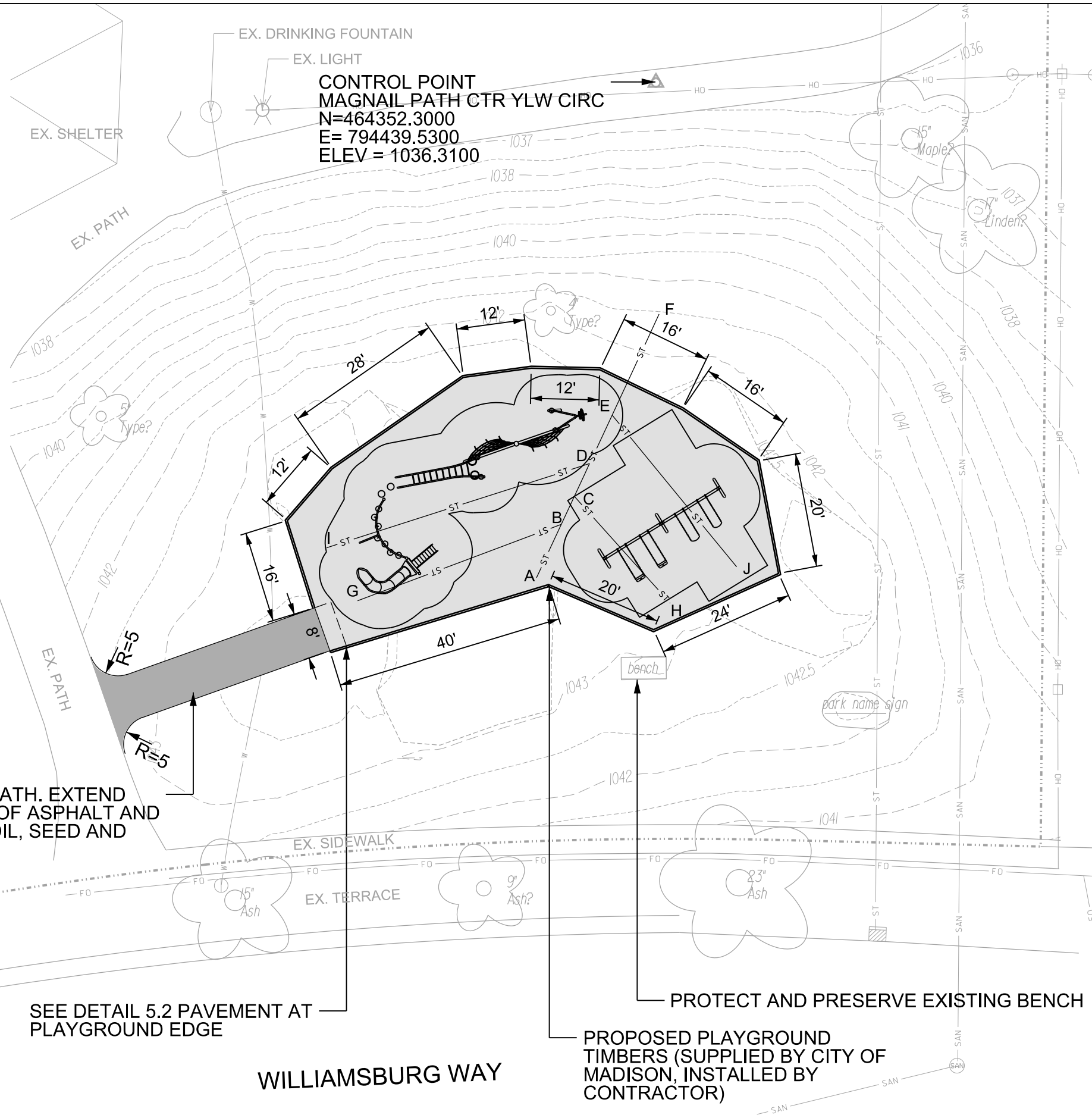
PROPOSED 3" DEPTH ASPHALT PATH. EXTEND GRAVEL BASE 6" BEYOND EDGE OF ASPHALT AND TOPDRESS GRAVEL WITH TOPSOIL, SEED AND MULCH.

SEE DETAIL 5.2 PAVEMENT AT PLAYGROUND EDGE

WILLIAMSBURG WAY

PROPOSED PLAYGROUND TIMBERS (SUPPLIED BY CITY OF MADISON, INSTALLED BY CONTRACTOR)

PROTECT AND PRESERVE EXISTING BENCH



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PARKS DIVISION

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play
**MADISON
PARKS**

Graphical Scale
0 20 ft



PROJECT:
*2014
PLAYGROUND
IMPROVEMENTS
- GROUP 2*

*HUEGEL PARK
5902 WILLIAMSBURG
WAY
MADISON, WI 53719*

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ITEM	DATE
Drawn by: SCL	06-06-2014

PUBLIC WORKS PROJECT #:
7362

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
3.3

LEGEND

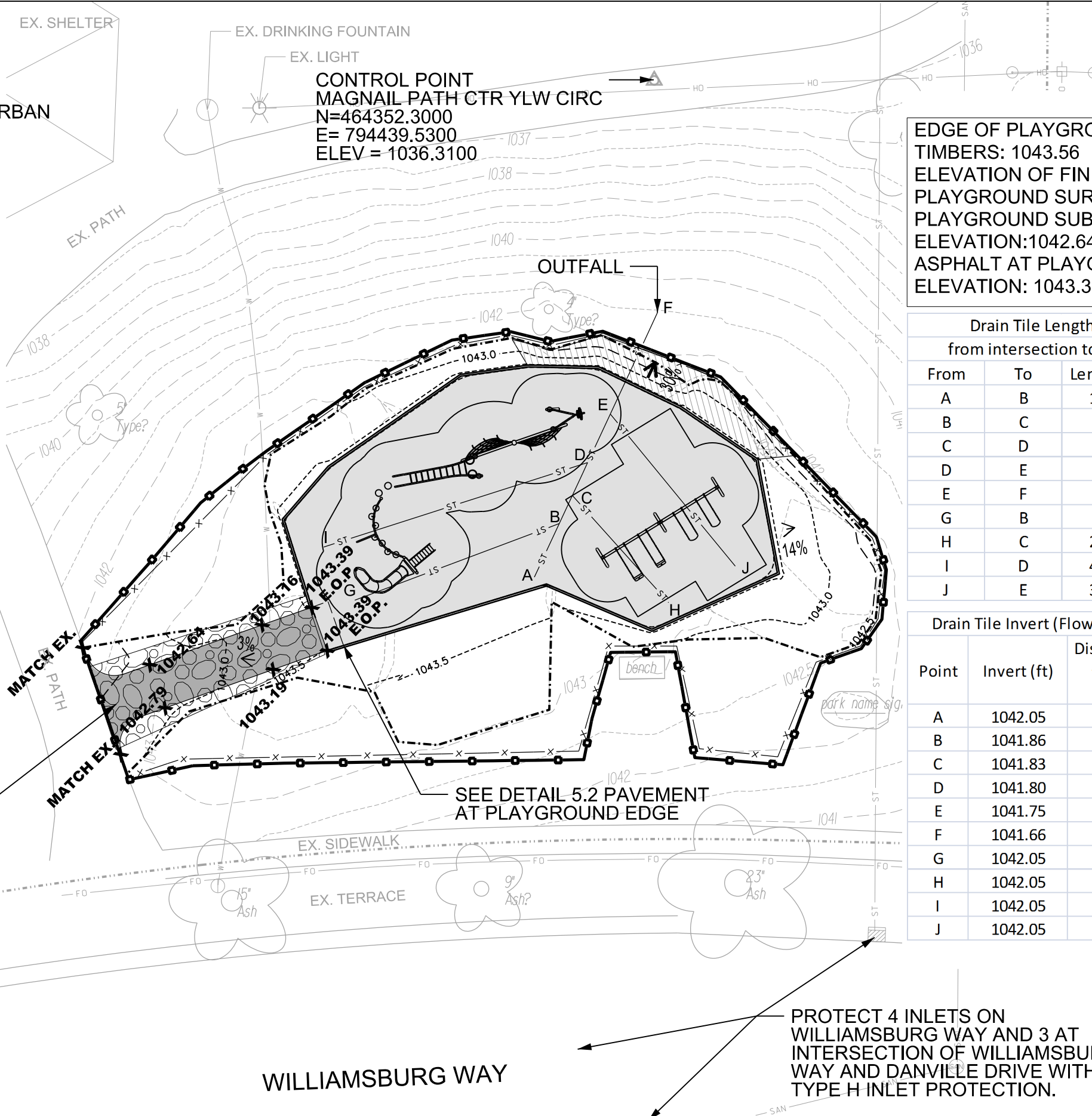
- ASPHALT
- RUBBER MULCH
- EROSION MATTING, CLASS I URBAN TYPE A - ORGANIC
- CONSTRUCTION ENTRANCE

- GRADING EXTENTS
- CONSTRUCTION FENCE
- SILT SOCK
- DRAIN TILE
- CONTOUR (INDEX)
- CONTOUR (INTER.)
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)
- EX. APPROX. R-O-W

NOTES

1. PLACE 4 OZ PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 5.1.
2. PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED ON PLANS.

CONSTRUCTION ENTRANCE



EDGE OF PLAYGROUND BORDER TIMBERS: 1043.56
ELEVATION OF FINISHED PLAYGROUND SURFACE: 1043.39
PLAYGROUND SUBGRADE ELEVATION: 1042.64
ASPHALT AT PLAYGROUND ELEVATION: 1043.39

Drain Tile Lengths & Slopes
from intersection to intersection

From	To	Length (ft)	Slope (%)
A	B	10.45	-1.82
B	C	5.89	-0.5
C	D	5.89	-0.5
D	E	9.34	-0.5
E	F	18.9	-0.5
G	B	38	-0.5
H	C	25.13	-0.88
I	D	48.35	-0.52
J	E	34.35	-0.84

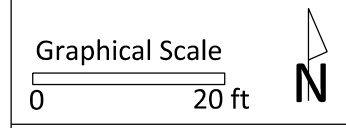
Drain Tile Invert (Flowline) Elevations

Point	Invert (ft)	Distance from top of timbers 1043.56 (INCHES)
A	1042.05	18.12
B	1041.86	20.40
C	1041.83	20.76
D	1041.80	21.12
E	1041.75	21.72
F	1041.66	22.80
G	1042.05	18.12
H	1042.05	18.12
I	1042.05	18.12
J	1042.05	18.12

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play
MADISON PARKS



PROJECT:
*2014
PLAYGROUND
IMPROVEMENTS
- GROUP 2*

*HUEGEL PARK
5902 WILLIAMSBURG
WAY
MADISON, WI 53719*

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ITEM	DATE
Drawn by: SCL	06-06-2014

PUBLIC WORKS PROJECT #:
7362

SHEET TITLE:
*GRADING AND
EROSION CONTROL
PLAN*

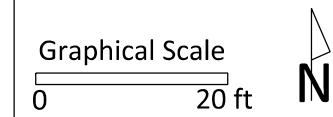
SHEET NUMBER:
3.4

Huegel Park Playground - Earthwork Quantities											
City of Madison, WI Public Works Contract											
Date Revised: 5/28/2014											
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 "Ex" (Huegel_Survey2013-12-13.dtm)											
Proposed Pro_2											
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 6in topsoil	n/a	n/a	826	0.50	413	15.3	0%	15.3
1.2	Grass to Grass	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-6in	Pro-6in	826	varies	36	1.3	0%	1.3
1.3	Grass to Grass	Subsoil Place	Fill subsoil to proposed subgrade	Ex-6in	Pro-6in	826	varies	-169	-6.3	0%	-6.3
1.4	Grass to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	826	-0.50	-413	-15.3	0%	-15.3
2.1	Grass to Gravel	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	405	0.50	203	7.5	0%	7.5
2.2	Grass to Gravel	Subsoil Excavate	Cut subsoil to proposed path subgrade	Ex-6in	Pro-12in	405	varies	327	12.1	0%	12.1
2.3	Grass to Gravel	Gravel Place	Place 9in gravel base out 6in from asphalt edges	n/a	n/a	405	-0.75	-304	-11.3	0%	-11.3
2.4	Grass to Gravel	Asphalt Place	Place 3in asphalt	n/a	n/a	357	-0.25	-89	-3.3	0%	-3.3
2.5	Grass to Gravel	Topsoil Place	Place 3in topsoil on path gravel edges	n/a	n/a	42	-0.25	-11	-0.4	0%	-0.4
2.6	Grass to Gravel	Play Surface Place	Place 3in play surface on path gravel edges	n/a	n/a	6	-0.25	-2	-0.1	0%	-0.1
3.1	Grass to Play Surface	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	1237	0.50	619	22.9	0%	22.9
3.2	Grass to Play Surface	Subsoil Excavate	Cut subsoil to proposed play subgrade	Ex-6in	Pro-9in	1237	varies	105	3.9	0%	3.9
3.3	Grass to Play Surface	Subsoil Place	Fill subsoil to proposed play subgrade	Ex-6in	Pro-9in	1237	varies	-141	-5.2	0%	-5.2
3.4	Grass to Play Surface	Play Surface Place	Place 9in play surface	n/a	n/a	1237	-0.75	-928	-34.4	0%	-34.4
4.1	Grass to Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	35	0.50	18	0.6	0%	0.6
4.2	Grass to Timbers	Subsoil Excavate	Cut subsoil to bottom of timbers	Ex-6in	Pro-12in	35	varies	5	0.2	0%	0.2
4.3	Grass to Timbers	Subsoil Place	Fill subsoil to proposed play subgrade	Ex-6in	Pro-12in	35	varies	-7	-0.2	0%	-0.2
4.4	Grass to Timbers	Timbers (placeholder volume)	Place border timbers (placeholder volume to balance comps)	n/a	n/a	35	-1.00	-35	-1.3	0%	-1.3
5.1	Play Surface to Grass	Play Surface Excavate	Excavate 17in pea gravel	n/a	n/a	1427	1.42	2022	74.9	0%	74.9
5.2	Play Surface to Grass	Subsoil Place	Place subsoil to grass subgrade	Ex-17in	Pro-6in	1427	varies	-1725	-63.9	0%	-63.9
5.3	Play Surface to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	1427	-0.50	-714	-26.4	0%	-26.4
6.1	Play Surface to Play Surface	Play Surface Excavate	Excavate 17in pea gravel	n/a	n/a	1644	1.42	2329	86.3	0%	86.3
6.2	Play Surface to Play Surface	Subsoil Place	Place subsoil to proposed play subgrade	Ex-17in	Pro-9in	1644	varies	-1713	-63.4	0%	-63.4
6.3	Play Surface to Play Surface	Play Surface Place	Place 9in play surface	n/a	n/a	1644	-0.75	-1233	-45.7	0%	-45.7
7.1	Play Surface to Timbers	Play Surface Excavate	Excavate 17in pea gravel	n/a	n/a	38	1.42	54	2.0	0%	2.0
7.2	Play Surface to Timbers	Subsoil Place	Fill subsoil to bottom of timbers	Ex-17in	Pro-12in	38	varies	-38	-1.4	0%	-1.4
7.3	Play Surface to Timbers	Timbers (placeholder volume)	Place border timbers (placeholder volume to balance comps)	n/a	n/a	38	-1.00	-38	-1.4	0%	-1.4
8.1	Adjust	Subsoil Place	Reduce subsoil place by 1/2 of asphalt ramp gravel base volume = 1/2 x (3.5 ft x 9 ft x 9 in)	n/a	n/a	32	0.38	12	0.4	0%	0.4
8.2	Adjust	Play Surface Place	Increase play surface by 1/2 of asphalt ramp gravel base volume = 1/2 x (3.5 ft x 9 ft x 9 in)	n/a	n/a	32	-0.38	-12	-0.4	0%	-0.4
9.1	Adjust	Subsoil Excavate	Drain tile inside playground - approx 185 ft x 1ft wide x average 10in deep	n/a	n/a	185	0.83	154	5.7	0%	5.7
9.2	Adjust	Drain Tile Stone Place	Drain tile inside playground - approx 185 ft x 1ft wide x average 10in deep (approx volume includes pipe itself)	n/a	n/a	185	-0.83	-154	-5.7	0%	-5.7
9.3	Adjust	Subsoil Excavate	Drain tile inside playground - approx 25 ft x 1ft wide x average 12in deep	n/a	n/a	25	1.00	25	0.9	0%	0.9
9.4	Adjust	Subsoil Place	Drain tile inside playground - approx 25 ft x 1ft wide x average 12in deep	n/a	n/a	25	-1.00	-25	-0.9	0%	-0.9

Huegel Park Playground - Earthwork Quantities			
Date Revised:	5/28/2014		
Derived from more detailed spreadsheet available from Parks Div			
Computation Summary			
Positive volumes are cuts (material available), negative volumes are fills (material needed)			
Assumes excavate 17in existing play surface, 12in new play surface, new path 9in gravel + 3in asph.			
Row Labels	Sum of Unfactored volume (cu yd)		
Asphalt Place	-3.3		
Drain Tile Stone Place	-5.7		
Gravel Place	-11.3		
Play Surface Excavate	163.1		
Play Surface Place	-80.5		
Subsoil Excavate	24.2		
Subsoil Place	-141.0		
Timbers (placeholder volume)	-2.7		
Topsoil Excavate	46.4		
Topsoil Place	-42.1		
Grand Total	-52.9		
Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	71	CY	= Subsoil Excavate + Topsoil Excavate
20103 Excavation Cut - Pea Gravel	163	CY	= Play Surface Excavate
20201 Fill	117	CY	= Subsoil Excavate - Subsoil Place
20221 Topsoil	252	SY	= (Topsoil Place).167
40102 Crushed Aggregate Base Course Gradation No. 2 & 3	23	tons	= (Gravel Place) * 2 ton/cubic yard
40201 3" Depth HMA Pavement Type E-0.3	7.1	tons	= Asphalt Place * 2.16 ton/cubic yard
90004 Playground Surfacing - Rubber	81	CY	= Play Surface Place * 1.20

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PARKS DIVISION
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play
MADISON PARKS



PROJECT:
**2014
PLAYGROUND
IMPROVEMENTS
- GROUP 2**

**HUEGEL PARK
5902 WILLIAMSBURG
WAY
MADISON, WI 53719**

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
Drawn by: SCL	06-06-2014

PUBLIC WORKS PROJECT #:
7362

SHEET TITLE:
**DESIGN
CALCULATIONS**

SHEET NUMBER:
3.5

FRISCH ROAD

EXISTING LANDSCAPE STRUCTURES 100015 TUFRIDERS BIRD EQUIPMENT PIECE TO BE REMOVED BY CITY STAFF & STORED AT GOODMAN MAINTENANCE FACILITY, 1402 WINGRA CREEK PARKWAY, MADISON. CONTRACTOR RESPONSIBLE FOR REINSTALLING LANDSCAPE STRUCTURES 10015 TUFRIDERS BIRD EQUIPMENT AT LOCATION SHOWN ON PLANS

PROTECT EXISTING TREE

EXISTING PLAYGROUND & SURFACING TO BE REMOVED AND RESTORED BY CITY STAFF

PROPOSED CONSTRUCTION FENCE; NO CONSTRUCTION ALLOWED OUTSIDE OF CONSTRUCTION FENCE LIMITS

CONSTRUCTION ACCESS FROM FRISCH ROAD. PROTECT CURB, REPAIR AND REPLACEMENT OF CURB AND SIDEWALK IS INCIDENTAL TO THIS CONTRACT. CONSTRUCTION ACCESS MUST BE AT LEAST 10' FROM THE TRUNK OF ANY STREET TREE.

PROPOSED PLAYGROUND PROJECT LOCATION

PROPOSED STAGING AREA WITHIN CONSTRUCTION FENCE LIMITS

EXISTING PLAYGROUND PLAYGROUND EQUIPMENT SHALL BE REMOVED BY CITY; SUFACING SHALL BE REMOVED BY CONTRACTOR. AREA TO BE RESTORED BY CONTRACTOR.

PRIVATE PROPERTY

LUCY LINCOLN HIESTAND PARK

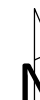
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Department of Public Works
PARKS DIVISION

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PO Box 2987
Madison, WI 53701-2987

play
**MADISON
PARKS**

Graphical Scale

0 30 ft



PROJECT:

*2014
PLAYGROUND
IMPROVEMENTS
-GROUP 2*

*LUCY LINCOLN
HIESTAND PARK
1506 PRAIRIE ROAD
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.



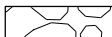




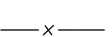
ITEM DATE
Drawn by: KK 06-06-2014

PUBLIC WORKS PROJECT #:
7362

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

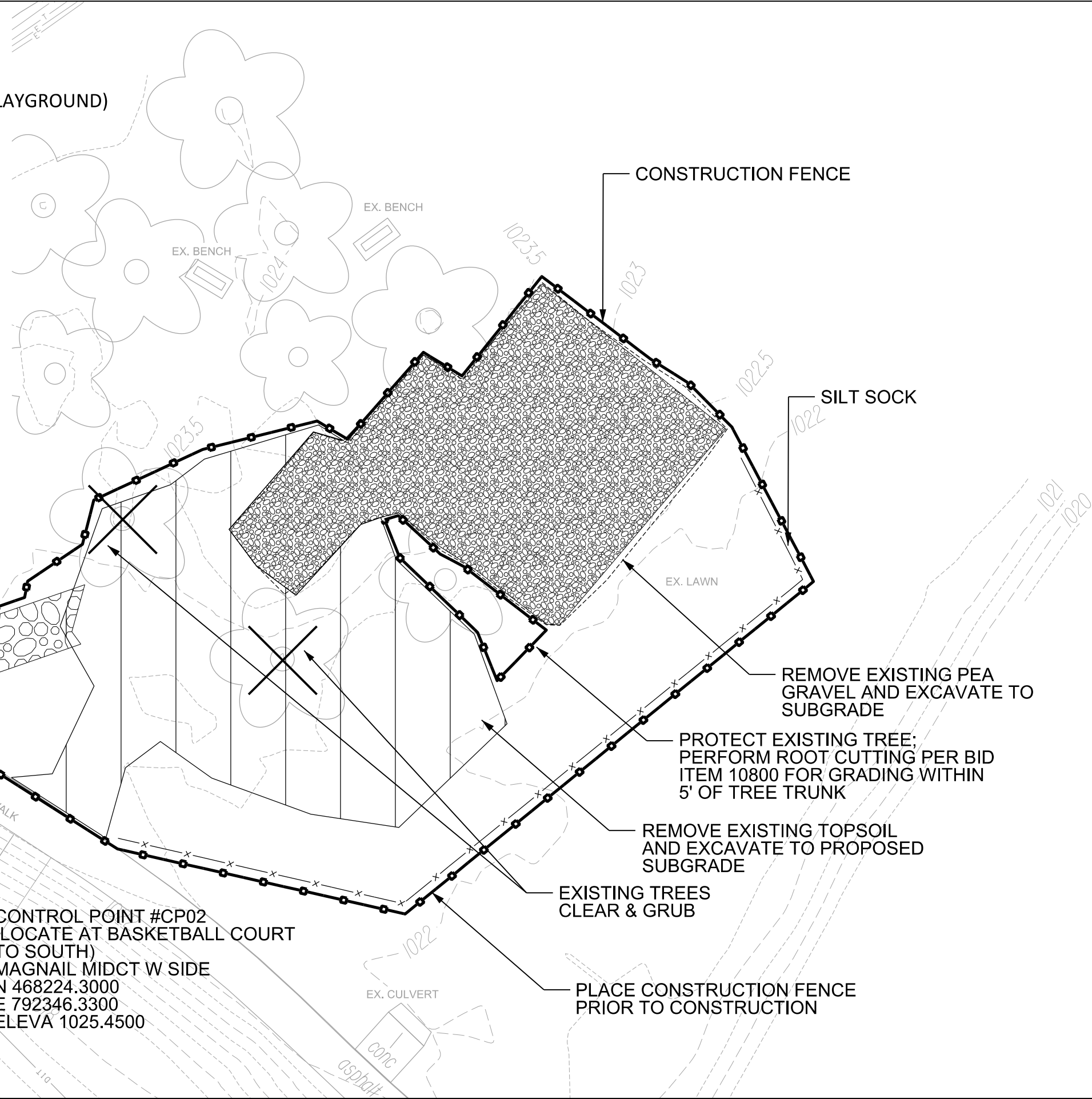
SHEET NUMBER:
4.1

LEGEND

-  SOD REMOVAL
-  PEA GRAVEL REMOVAL (EXISTING PLAYGROUND)
-  CONSTRUCTION ENTRANCE
-  CONSTRUCTION FENCE
-  GRADING EXTENTS
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  SILT SOCK

NOTES


1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVIES 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
**MADISON
PARKS**

Graphical Scale
0 20 ft 

PROJECT:
*2014
PLAYGROUND
IMPROVEMENTS
- GROUP 2*

*LUCY LINCOLN
HIESTAND PARK
1506 PRAIRIE ROAD
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
Drawn by: KK	06-06-2014

PUBLIC WORKS PROJECT #:
7362

SHEET TITLE:
**DEMOLITION AND
PROTECTION PLAN**

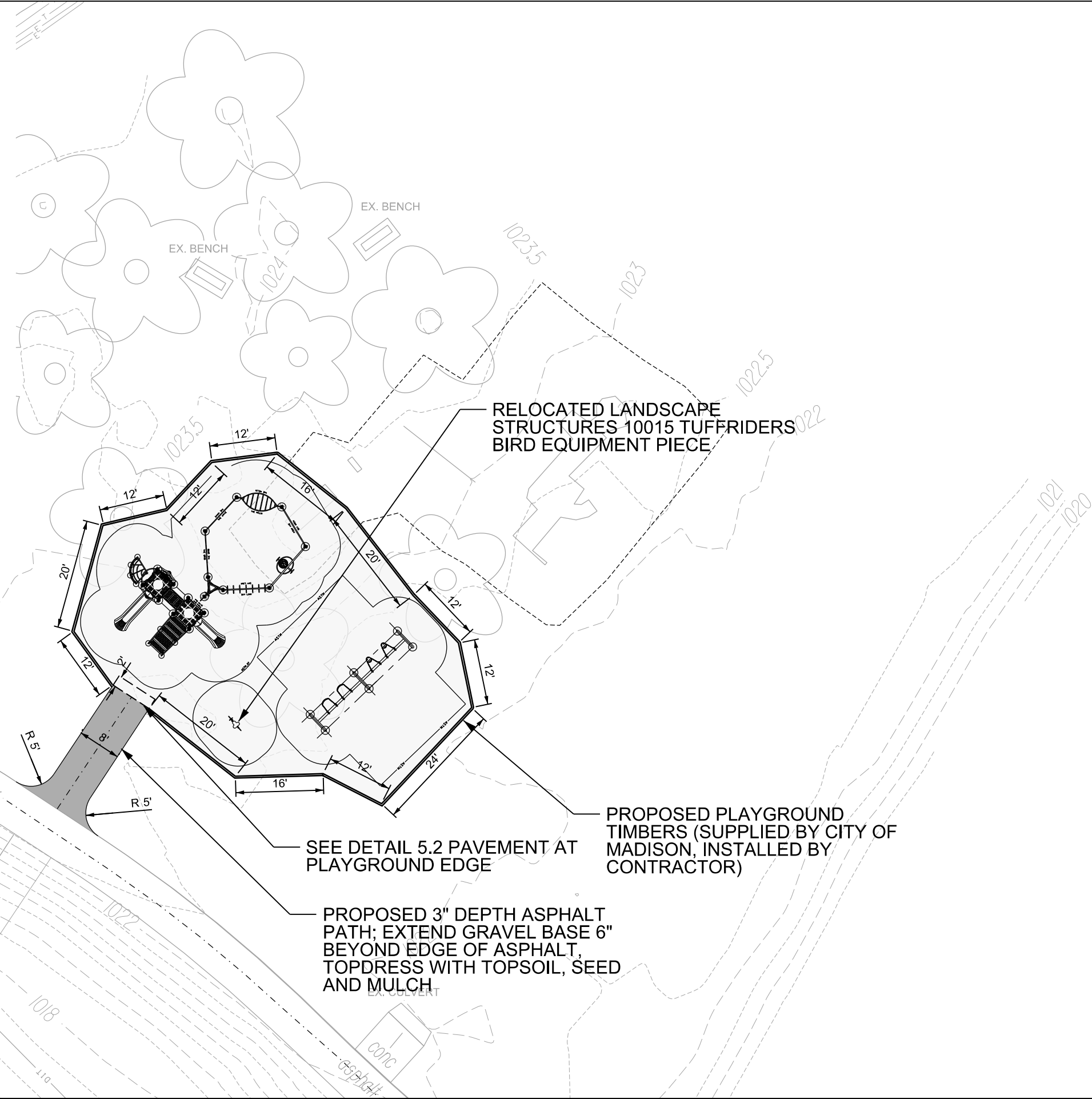
SHEET NUMBER:
4.2

LEGEND

- ASPHALT
- WOOD FIBER MULCH
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)

NOTES

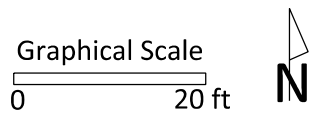
1.) THE CONSTRCTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURE, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



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MADISON
PARKS



PROJECT:
2014
PLAYGROUND
IMPROVEMENTS
 - GROUP 2

LUCY LINCOLN
HIESTAND PARK
 1506 PRAIRIE ROAD
 MADISON, WI 53711

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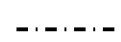

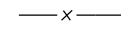
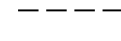
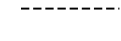


ITEM	DATE
Drawn by: KK	06-06-2014

PUBLIC WORKS PROJECT #:
7362

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
4.3

LEGEND

-  ASPHALT
-  WOOD FIBER MULCH
-  CONSTRUCTION ENTRANCE
-  GRADING EXTENTS
-  CONSTRUCTION FENCE
-  SILT SOCK
-  CONTOUR (INDEX)
-  CONTOUR (INTER.)
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)

NOTES


- 1.) PLACE 4 OZ PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAILS 5.1 & 5.2
- 2.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED ON PLANS.

EDGE OF PLAYGROUND BORDER
 TIMBERS: 1023.27
 ELEVATION OF FINISHED
 PLAYGROUND SURFACE: 1023.10
 PLAYGROUND SUBGRADE
 ELEVATION: 1022.35
 ASPHALT AT PLAYGROUND
 ELEVATION: 1023.10

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play
**MADISON
 PARKS**

Graphical Scale
 0 20 ft 

PROJECT:
 2014
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 2

LUCY LINCOLN
 HESTAND PARK
 1506 PRAIRIE ROAD
 MADISON, WI 53711

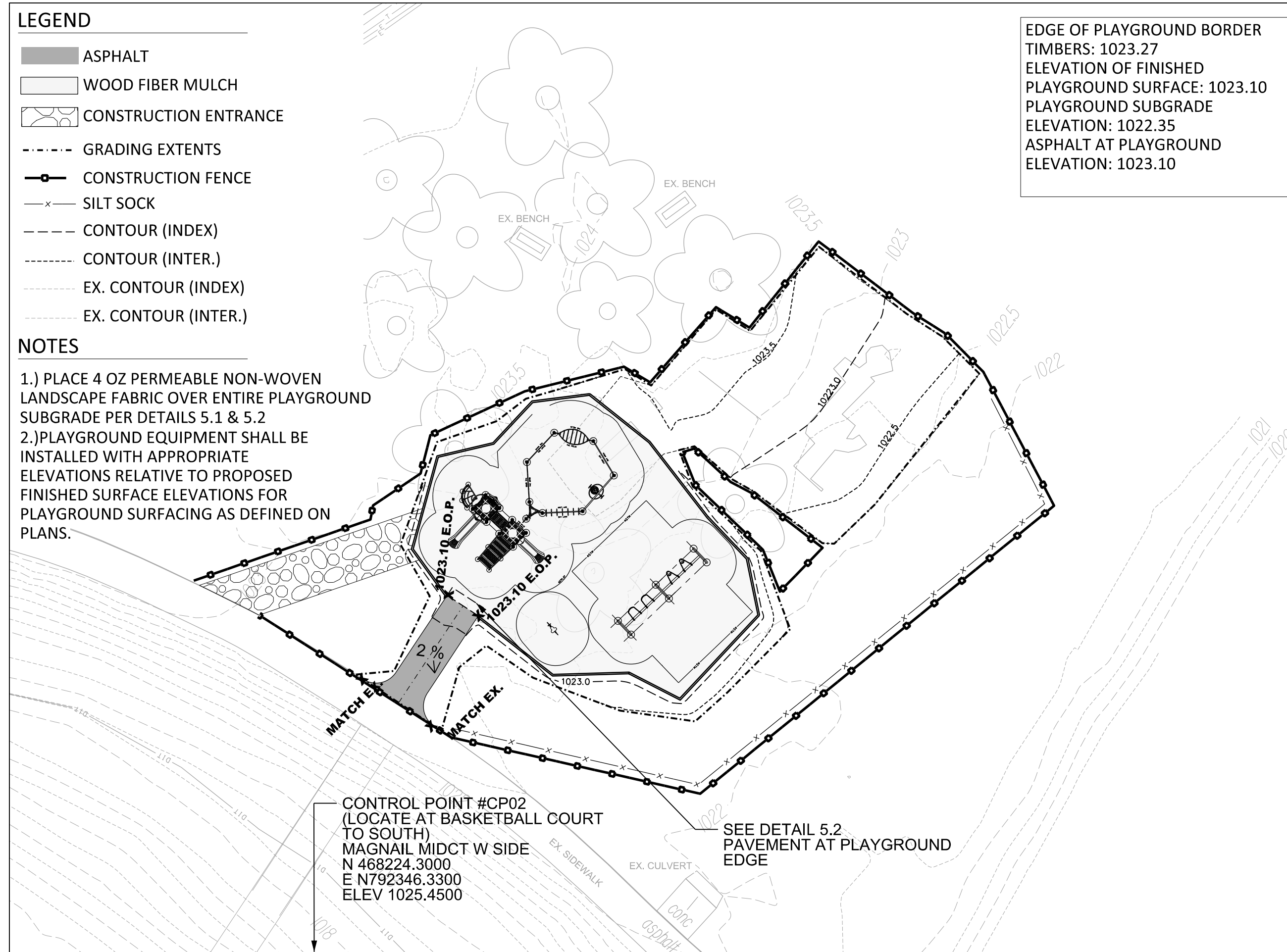
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ITEM	DATE
Drawn by: KK	06-06-2014

PUBLIC WORKS PROJECT #:
7362

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

SHEET NUMBER:
4.4



CONTROL POINT #CP02
 (LOCATE AT BASKETBALL COURT
 TO SOUTH)
 MAGNAIL MIDCT W SIDE
 N 468224.3000
 E N792346.3300
 ELEV 1025.4500

SEE DETAIL 5.2
 PAVEMENT AT PLAYGROUND
 EDGE

Lucy Lincoln Hiestand Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract
Date Revised: 5/20/2014

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: Lucy_Survey2013-10-10.dtm
Proposed: Pro_1.dtm

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)	Expan-sion Factor (%)	Factored (Uncom-pacted) Volume (cu yd)
1.1	Grass to Grass	Topsoil Place	Fill existing grass to proposed grass	Ex	Pro	793	varies	-236	-8.7	0%	-8.7
1.2	Grass to Grass	Topsoil Excavate	Cut existing grass to proposed grass	Ex	Pro	793	varies	24	0.9	0%	0.9
2.1	Grass to Gravel	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	252	0.50	126	4.7	0%	4.7
2.2	Grass to Gravel	Subsoil Excavate	Cut subsoil to path subgrade	Ex-6in	Pro-12in	252	varies	65	2.4	0%	2.4
2.3	Grass to Gravel	Subsoil Place	Fill subsoil to path subgrade	Ex-6in	Pro-12in	252	varies	-3	-0.1	0%	-0.1
2.4	Grass to Gravel	Gravel Place	Place path gravel 9in thick, out 6in from asphalt edge	n/a	n/a	252	-0.75	-189	-7.0	0%	-7.0
2.5	Grass to Gravel	Asphalt Place	Place 3in asphalt (including taper into playground)	n/a	n/a	219	-0.25	-55	-2.0	0%	-2.0
2.6	Grass to Gravel	Topsoil Place	Place 3in topsoil on path gravel edges	n/a	n/a	27	-0.25	-7	-0.3	0%	-0.3
2.7	Grass to Gravel	Play Surface Place	Place 3in play surface on path gravel edges inside playground	n/a	n/a	6	-0.25	-2	-0.1	0%	-0.1
3.1	Grass to Play Surface	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	2608	0.50	1304	48.3	0%	48.3
3.2	Grass to Play Surface	Subsoil Excavate	Cut subsoil to proposed play surface subgrade	Ex-6in	Pro-12in	2608	varies	722	26.7	0%	26.7
3.3	Grass to Play Surface	Subsoil Place	Fill subsoil to proposed play surface subgrade	Ex-6in	Pro-12in	2608	varies	-235	-8.7	0%	-8.7
3.4	Grass to Play Surface	Play Surface Place	Place 12in wood chips	n/a	n/a	2608	-1.00	-2608	-96.6	0%	-96.6
4.1	Grass to Timbers	Topsoil Excavate	Strip 6in topsoil	n/a	n/a	61	0.50	31	1.1	0%	1.1
4.2	Grass to Timbers	Subsoil Excavate	Cut subsoil to proposed border timber subgrade	Ex-6in	Pro-12in	61	varies	11	0.4	0%	0.4
4.3	Grass to Timbers	Subsoil Place	Fill subsoil to proposed border timber subgrade	Ex-6in	Pro-12in	61	varies	-14	-0.5	0%	-0.5
4.4	Grass to Timbers	Timbers (placeholder volume)	Place border timbers (placeholder volume to balance computations)	n/a	n/a	61	-1.00	-61	-2.3	0%	-2.3
5.1	Play Surface to Grass	Play Surface Excavate	Remove 17in pea gravel	n/a	n/a	2465	1.42	3492	129.3	0%	129.3
5.2	Play Surface to Grass	Subsoil Place	Fill subsoil to proposed grass subgrade	Ex-17in	Pro-6in	2465	varies	-2644	-97.9	0%	-97.9
5.3	Play Surface to Grass	Topsoil Place	Place 6in topsoil	n/a	n/a	2465	-0.50	-1233	-45.6	0%	-45.6
6.1	Play Surface to Play Surface	Play Surface Excavate	Remove 17in pea gravel	n/a	n/a	301	1.42	426	15.8	0%	15.8
6.2	Play Surface to Play Surface	Subsoil Excavate	Cut subsoil to proposed play subgrade	Ex-17in	Pro-12in	301	varies	18	0.7	0%	0.7
6.3	Play Surface to Play Surface	Subsoil Place	Fill subsoil to proposed play subgrade	Ex-17in	Pro-12in	301	varies	-16	-0.6	0%	-0.6
6.4	Play Surface to Play Surface	Play Surface Place	Place 12in wood chips	n/a	n/a	301	-1.00	-301	-11.1	0%	-11.1
7.1	Play Surface to Timbers	Play Surface Excavate	Remove 17in pea gravel	n/a	n/a	6	1.42	9	0.3	0%	0.3
7.2	Play Surface to Timbers	Subsoil Place	Fill subsoil to proposed border timber subgrade	Ex-17in	Pro-12in	6	varies	-2	-0.1	0%	-0.1
7.3	Play Surface to Timbers	Timbers (placeholder volume)	Place border timbers (placeholder volume to balance computations)	n/a	n/a	6	-1.00	-6	-0.2	0%	-0.2
8.1	Adjust	Subsoil Excavate	Increase subsoil excavate by 1/2 of asphalt ramp gravel base volume = 1/2 x (3.5 ft x 9 ft x 9 in)	n/a	n/a	32	0.38	12	0.4	0%	0.4
8.2	Adjust	Play Surface Place	Increase play surface by 1/2 of asphalt ramp gravel base volume = 1/2 x (3.5 ft x 9 ft x 9 in)	n/a	n/a	32	-0.38	-12	-0.4	0%	-0.4

Lucy Lincoln Hiestand Park Playground - Earthwork Quantities

Date Revised: 5/20/2014

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 Unfac-tored volume (cu yd)
Asphalt Place	-2.0
Gravel Place	-7.0
Play Surface Excavate	145.4
Play Surface Place	-108.2
Subsoil Excavate	30.7
Subsoil Place	-107.9
Timbers (placeholder volume)	-2.5
Topsoil Excavate	55.0
Topsoil Place	-54.6
Grand Total	-51.1

Reorganized into bid table items

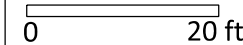
Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	85.7	CY	= Subsoil Excavate + Topsoil Excavate
20103 Excavation Cut - Pea Gravel	145.4	CY	= Play Surface Excavate
20201 Fill	77.2	CY	= Subsoil Excavate - Subsoil Place
20221 Topsoil	326.9	SY	= (Topsoil Place)/.167
40102 Crushed Aggregate Base Course Gradation No. 2 & 3	14.0	tons	= (Gravel Place) * 2 ton/cubic yard
40201 3" Depth HMA Pavement Type E-0.3	4.3	tons	= Asphalt Place * 2.16 ton/cubic yard
90003 Playground Surfacing - Wood Chips	108.2	CY	

City of Madison
Department of Public Works
PARKS DIVISION

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Graphical Scale



PROJECT:

*2014
PLAYGROUND
IMPROVEMENTS
- GROUP 2*

*LUCY LINCOLN
HIESTAND PARK
1506 PRAIRIE ROAD
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: 06-06-2014
Drawn by: KK
Approved by: _____ xx-xx-xxxx

PUBLIC WORKS PROJECT #:
7362

SHEET TITLE:

SHEET NUMBER:

4.5

City of Madison
 Department of Public Works
PARKS DIVISION

City-County Building, Suite 104
 210 Martin Luther King, Jr. Blvd.
 PO Box 2987
 Madison, WI 53701-2987

play
**MADISON
 PARKS**

PROJECT:
 2014
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 2

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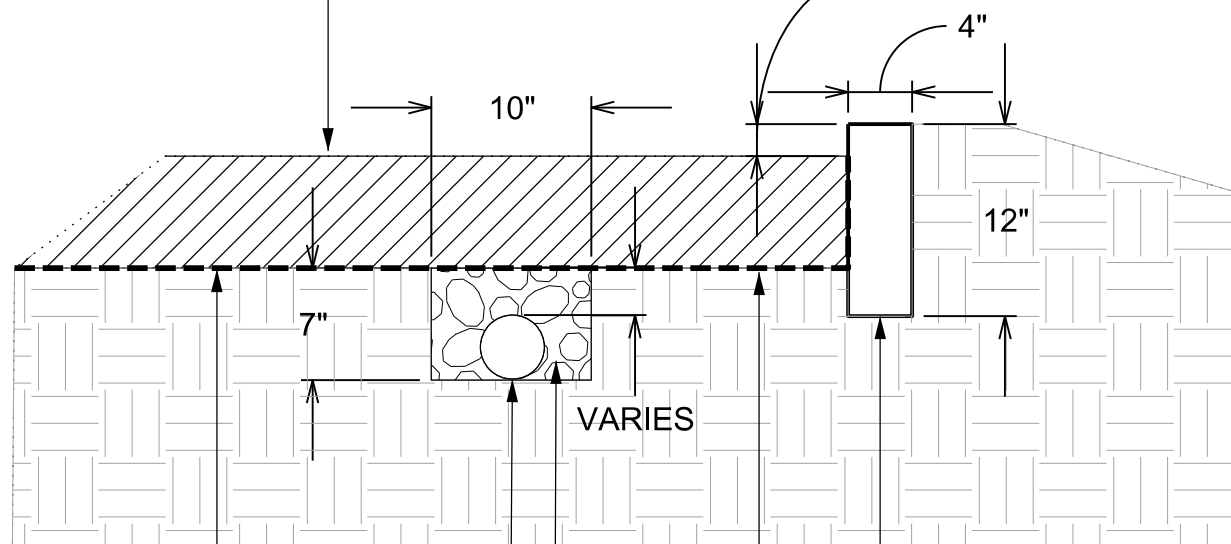
ITEM	DATE
Drawn by: SCL	06-06-2014

PUBLIC WORKS PROJECT #:
7362

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

SHEET NUMBER:
5.1

PLAYGROUND SURFACING
 2" LIP BETWEEN "TUFF TIMBERS"
 AND FINAL PLAYGROUND SURFACING GRADE
 4"



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

4 INCH PERFORATED PVC DRAIN PIPE WITH 'SOCK'
 PITCHED MINIMUM OF 0.5% SLOPE

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

PLAYGROUND SUBGRADE
 - MIN. 7" FROM PLAYGROUND SURFACE FINISHED
 GRADE FOR SHREDDED RUBBER MULCH
 - MIN. 12" FROM PLAYGROUND SURFACE FINISHED
 GRADE FOR ENGINEERED WOOD FIBER MULCH

PROPOSED LANDSCAPE STRUCTURES
 TUFFTIMBERS EDGING PER
 MANUFACTURER'S INSTALLATION
 SPECIFICATIONS

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PROJECT:
*2014
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 2*

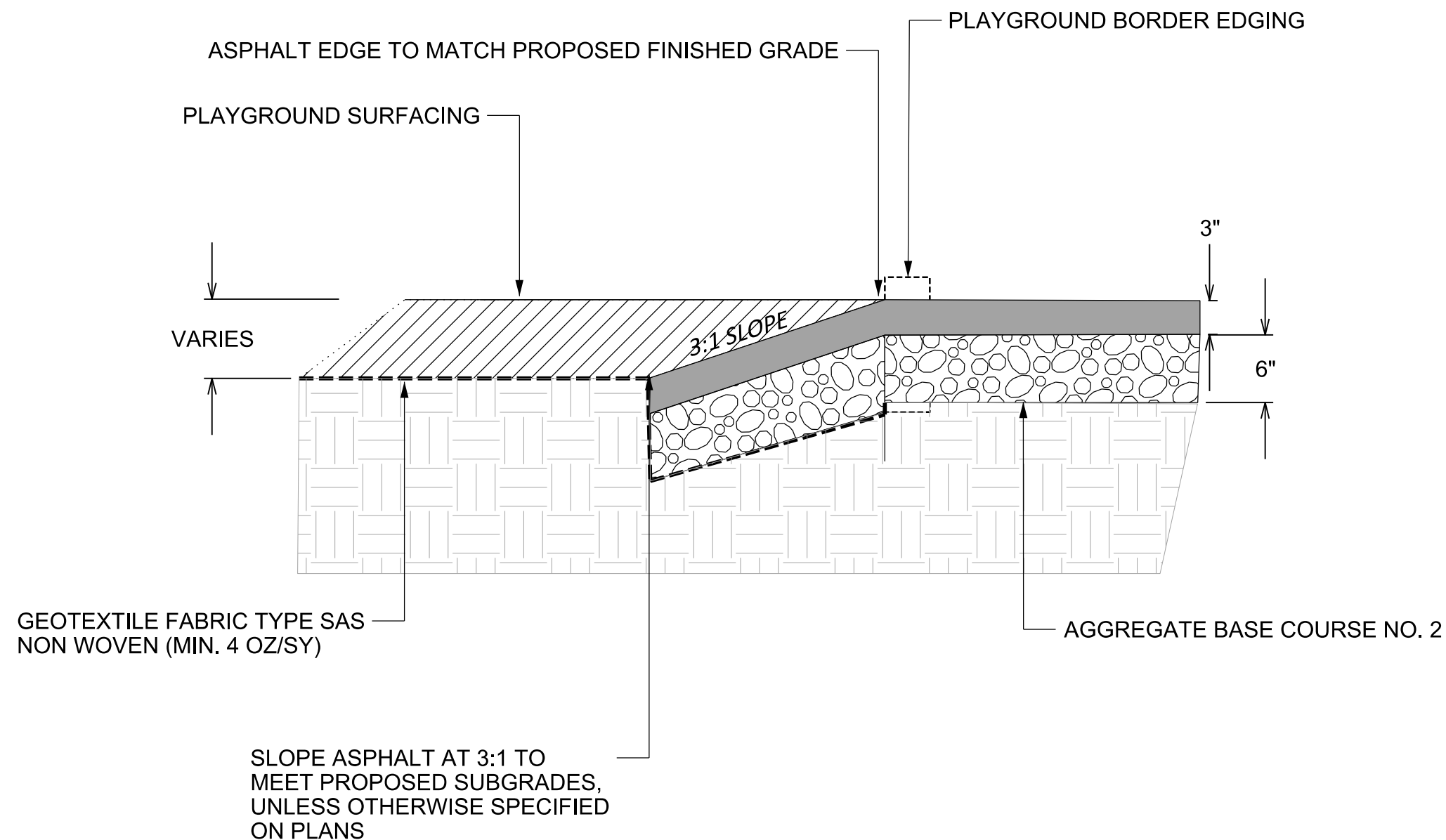
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ITEM	DATE
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SHEET TITLE:
**ASPHALT EDGE
 AT PLAYGROUND**

SHEET NUMBER:
5.2



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play
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PROJECT:
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ITEM	DATE
Drawn by: SCL	06-06-2014

PUBLIC WORKS PROJECT #:
7362

SHEET TITLE:
**MODULAR BLOCK
 RETAINING WALL**

SHEET NUMBER:
5.3

