

SHEET SCHEDULE

- 1.1 ALDO LEOPOLD PARK - PROJECT LOCATION AND SITE ACCESS
- 1.2 ALDO LEOPOLD PARK - DEMOLITION AND PROTECTION PLAN
- 1.3 ALDO LEOPOLD PARK - SITE PLAN
- 1.4 ALDO LEOPOLD PARK - GRADING AND EROSION CONTROL PLAN
- 1.5 ALDO LEOPOLD PARK - DESIGN COMPUTATIONS

- 2.1 MIDLAND PARK - PROJECT LOCATION AND SITE ACCESS
- 2.2 MIDLAND PARK - DEMOLITION AND PROTECTION PLAN
- 2.3 MIDLAND PARK - SITE PLAN
- 2.4 MIDLAND PARK - GRADING AND EROSION CONTROL PLAN
- 2.5 MIDLAND PARK - DESIGN COMPUTATIONS

- 3.1 RAYMOND RIDGE PARK - PROJECT LOCATION AND SITE ACCESS
- 3.2 RAYMOND RIDGE PARK - DEMOLITION AND PROTECTION PLAN
- 3.3 RAYMOND RIDGE PARK - SITE PLAN
- 3.4 RAYMOND RIDGE PARK - GRADING AND EROSION CONTROL PLAN
- 3.5 RAYMOND RIDGE PARK - DESIGN COMPUTATIONS

SHEET SCHEDULE (CONTINUED)

- 4.1 RIMROCK PARK - PROJECT LOCATION AND SITE ACCESS
- 4.2 RIMROCK PARK - DEMOLITION AND PROTECTION PLAN
- 4.3 RIMROCK PARK - SITE PLAN
- 4.4 RIMROCK PARK - GRADING AND EROSION CONTROL PLAN
- 4.5 RIMROCK PARK - DESIGN COMPUTATIONS

- 5.1 WAUNONA PARK - PROJECT LOCATION AND SITE ACCESS
- 5.2 WAUNONA PARK - DEMOLITION AND PROTECTION PLAN
- 5.3 WAUNONA PARK - SITE PLAN
- 5.4 WAUNONA PARK - GRADING AND EROSION CONTROL PLAN
- 5.5 WAUNONA PARK - DESIGN COMPUTATIONS

- 6.1 TYPICAL PLAYGROUND SURFACING WITH UNDERDRAIN
- 6.2 PAVEMENT EDGE AT PLAYGROUND

City of Madison
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PARKS DIVISION

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play
**MADISON
PARKS**



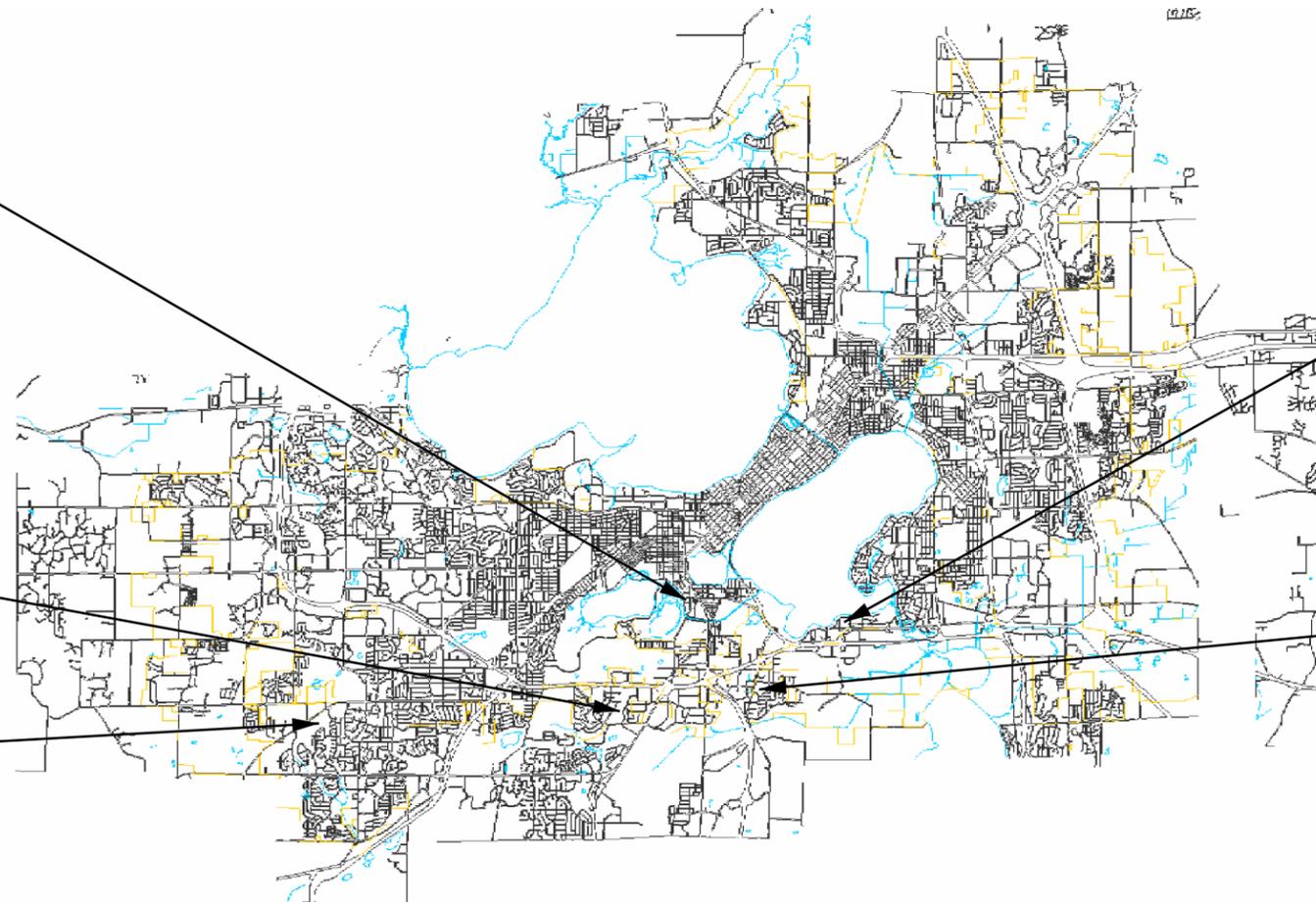
PROJECT:
**2016 PARK
PLAYGROUND
IMPROVEMENTS
- GROUP 1**

**2016 PARK PLAYGROUND IMPROVEMENTS - GROUP 1
CONTRACT 7664
MUNIS NO. 17438-51-200**

MIDLAND PARK
1005 MIDLAND ST
MADISON, WI 53715

ALDO LEOPOLD PARK
2906 TRACEWAY DR
MADISON, WI 53713

RAYMOND RIDGE PARK
2138 MUIR FIELD RD
MADISON, WI 53719



WAUNONA PARK
5323 RAYWOOD RD
MADISON, WI 53713

RIMROCK PARK
2906 ROCKWOOD DR
MADISON, WI 53713

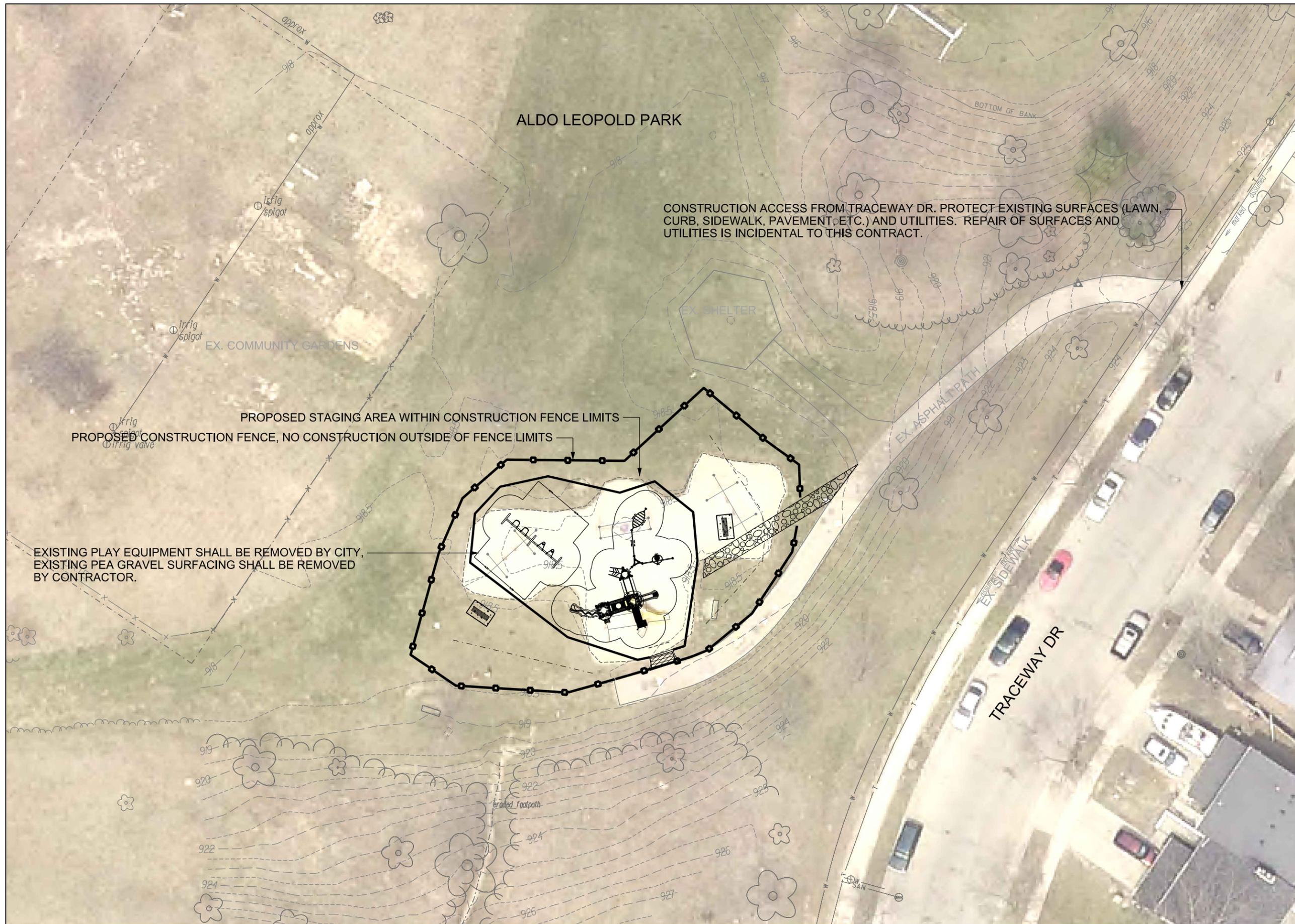
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM	DATE
Advertised by: SCL	02-12-2016

PUBLIC WORKS PROJECT #:
7664

SHEET TITLE:

SHEET NUMBER:



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Graphical Scale



PROJECT:
**2016 PARK
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 1**

**ALDO LEOPOLD PARK
 2906 TRACEWAY DR
 MADISON, WI 53713**

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7664

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

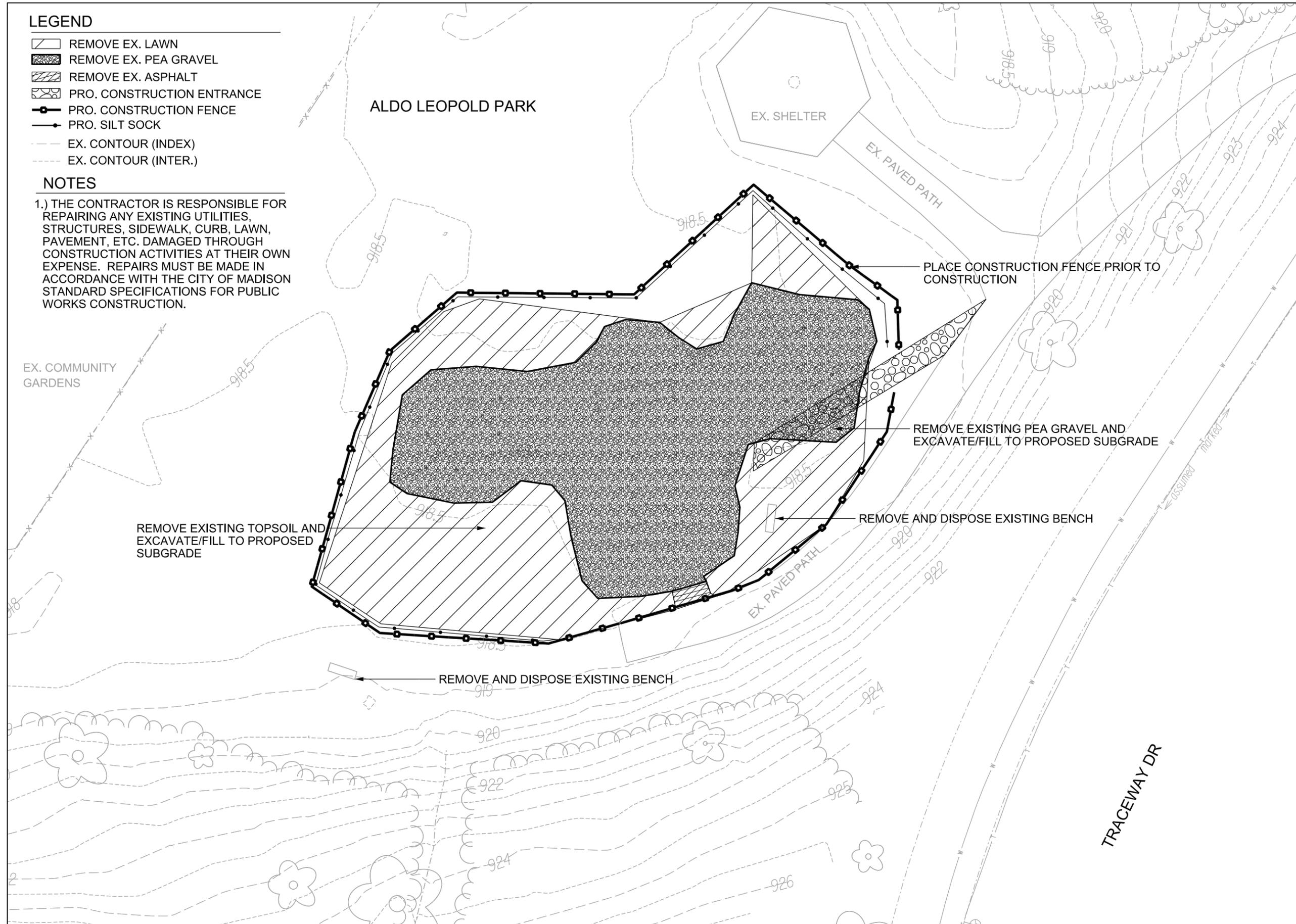
SHEET NUMBER:
1.1

LEGEND

-  REMOVE EX. LAWN
-  REMOVE EX. PEA GRAVEL
-  REMOVE EX. ASPHALT
-  PRO. CONSTRUCTION ENTRANCE
-  PRO. CONSTRUCTION FENCE
-  PRO. SILT SOCK
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)

NOTES

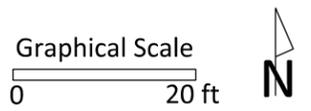
1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



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PROJECT:
**2016 PARK
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 1**

**ALDO LEOPOLD PARK
 2906 TRACEWAY DR
 MADISON, WI 53713**

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ITEM	DATE
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PUBLIC WORKS PROJECT #:
7664

SHEET TITLE:
**DEMOLITION AND
 PROTECTION PLAN**

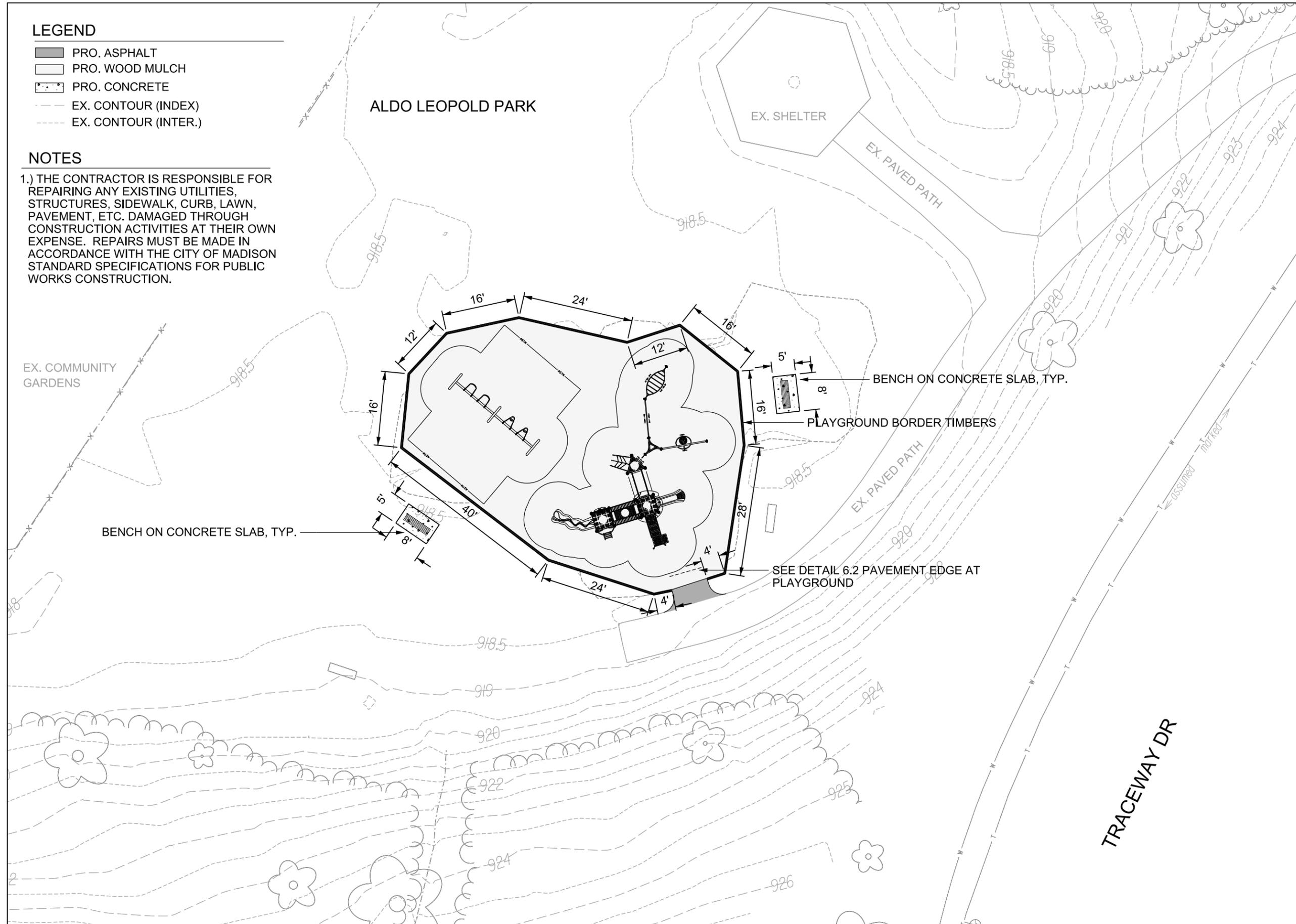
SHEET NUMBER:
1.2

LEGEND

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

NOTES

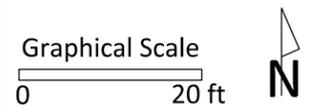
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PROJECT:
2016 PARK
PLAYGROUND
IMPROVEMENTS
- GROUP 1

ALDO LEOPOLD PARK
2906 TRACEWAY DR
MADISON, WI 53713

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ITEM	DATE
Advised by: SCL	02-12-2016

PUBLIC WORKS PROJECT #:
7664

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
1.3

Aldo Leopold Park Playground - Earthwork Quantities

City of Madison Public Works Contract
Date Revised: 2/8/2016

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 Factored (Uncompacted) Volume (cu yd)
Asphalt Place	-0.4
Border Timbers Place (placeholder volume)	-2.6
Gravel (Path) Place	-1.1
Play Surface Excavate	201.4
Play Surface Place	-112.3
Subsoil Excavate	2.9
Subsoil Place	-174.6
Topsoil Excavate	59.0
Topsoil Place	-70.4
Asphalt Excavate	0.3
Gravel Place	-1.0
Concrete Place	-1.5
Grand Total	-100.3

Net subsoil (cu yd)	-172
Net topsoil (cu yd)	-11
Net topsoil & subsoil (cu yd)	-183

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	62	CY	= Subsoil Excavate + Topsoil Excavate + Asphalt Excavate
20103 Excavation Cut - Pea Gravel	201	CY	= Play Surface Excavate
20201 Fill	172	CY	= Subsoil Excavate + Subsoil Place
20221 Topsoil	421	SY	= (Topsoil Place)/-.167
40102 Crushed Aggregate Base Course Gradation No. 2	2	tons	= (Gravel Place) * -2 ton/cubic yard
40201 3" Depth HMA Pavement Type E-0.3	0.8	tons	= Asphalt Place * -2.16 ton/cubic yard
90003 Playground Surfacing - Wood Mulch	124	CY	= Play Surface Place * -1.10

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PROJECT:
2016 PARK PLAYGROUND IMPROVEMENTS - GROUP 1

**ALDO LEOPOLD PARK
2906 TRACEWAY DR
MADISON, WI 53713**

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.

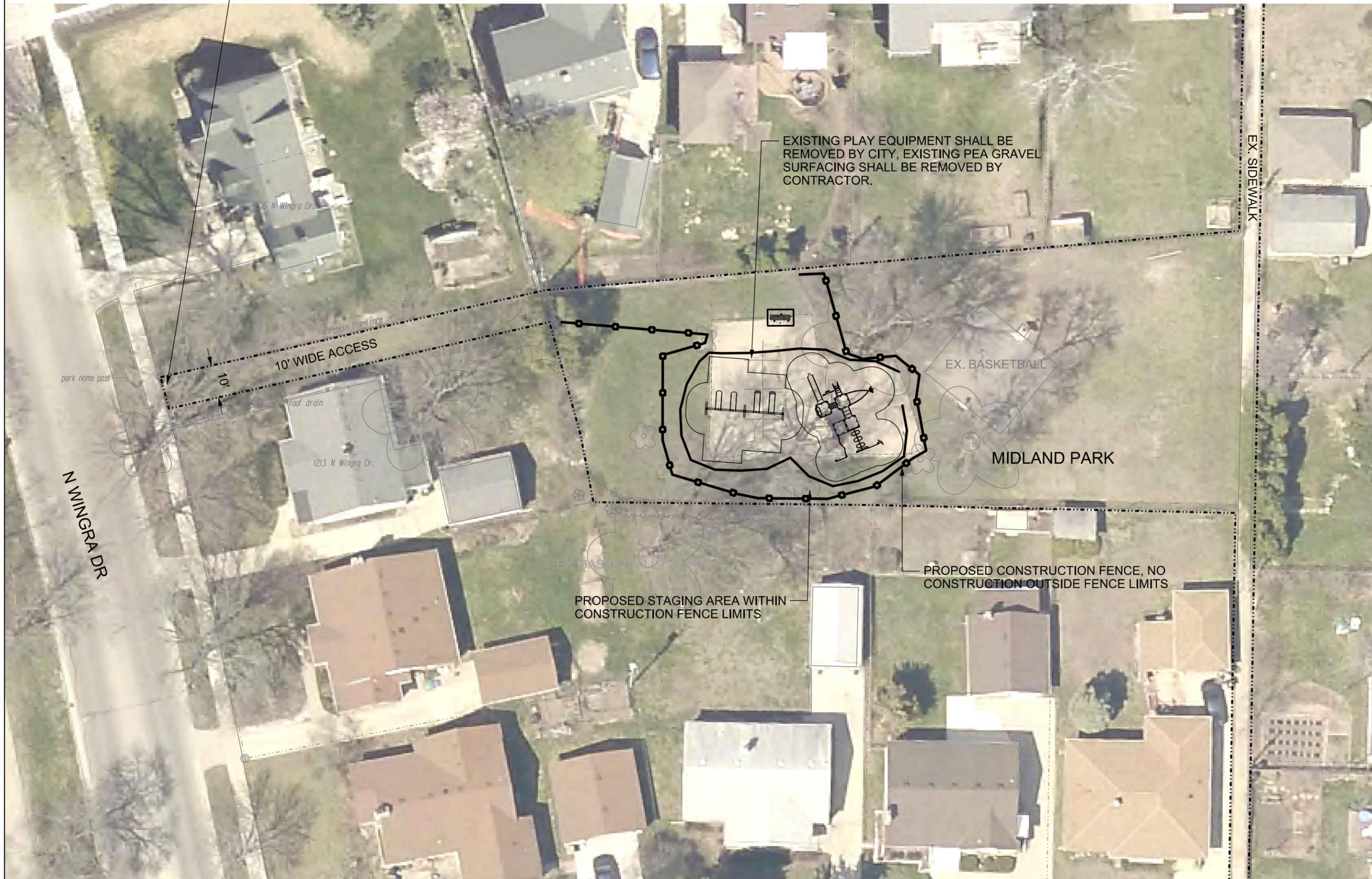
ITEM DATE
Advertised by: SCL 02-12-2016

PUBLIC WORKS PROJECT #:
7664

SHEET TITLE:
DESIGN COMPUTATIONS

SHEET NUMBER:
1.5

CONSTRUCTION ACCESS FROM 10' WIDE ACCESS OFF OF N. WINGRA DRIVE. PROTECT EXISTING SURFACES (LAWN, CURB, SIDEWALK, PAVEMENT, ETC.), ADJOINING PROPERTY FENCES, AND UTILITIES. REPAIR OF SURFACES AND UTILITIES IS INCIDENTAL TO THIS CONTRACT. CONTRACTOR SHALL PLACE WOOD PLYWOOD ALONG CONSTRUCTION ROUTE.



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Graphical Scale



PROJECT:
**2016 PARK
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 1**

**MIDLAND PARK
 1005 MIDLAND ST
 MADISON, WI 53715**

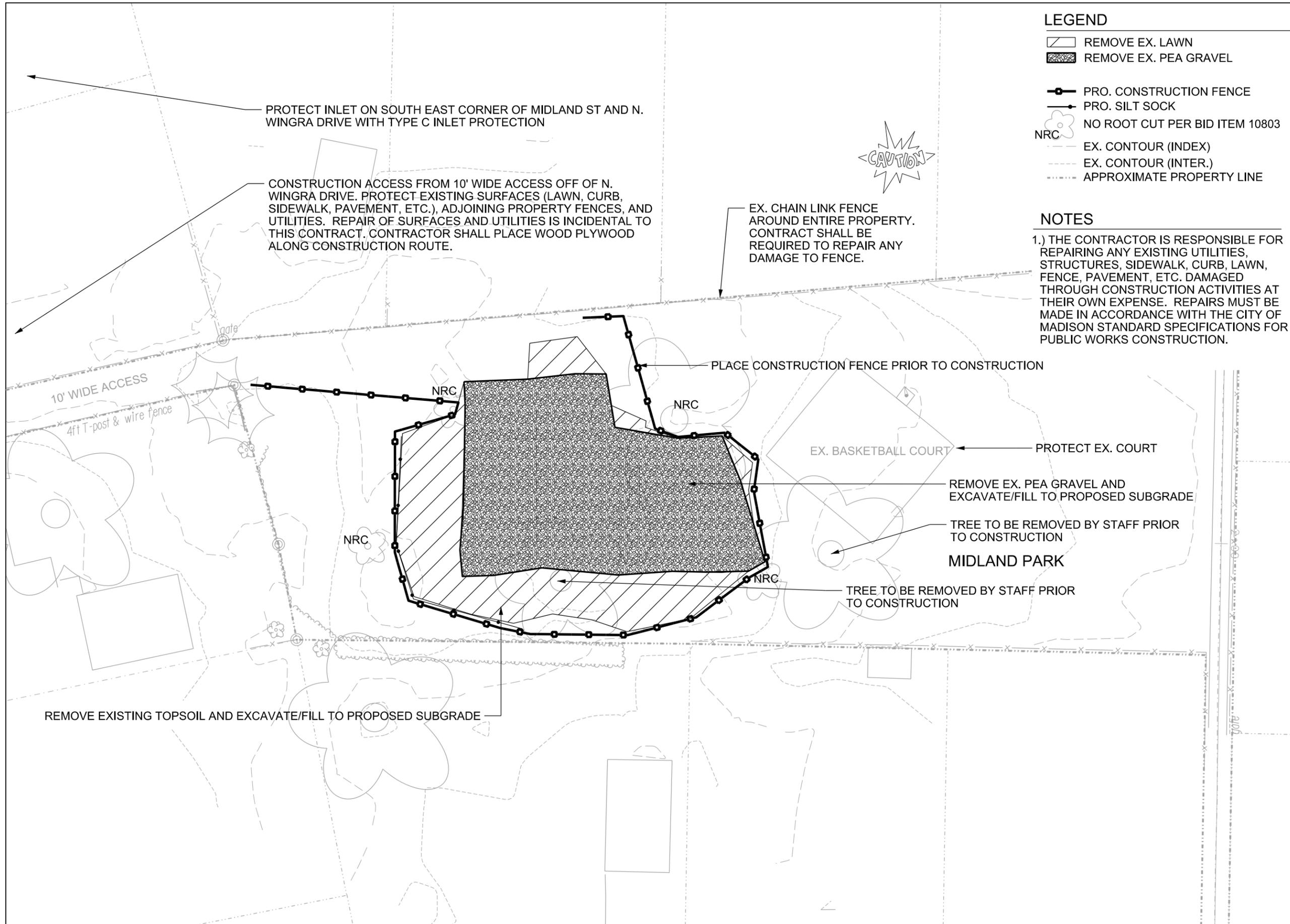
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Advised by: SCL	02-12-2016

PUBLIC WORKS PROJECT #:
7664

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

SHEET NUMBER:
2.1



LEGEND

-  REMOVE EX. LAWN
-  REMOVE EX. PEA GRAVEL
-  PRO. CONSTRUCTION FENCE
-  PRO. SILT SOCK
-  NO ROOT CUT PER BID ITEM 10803
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  APPROXIMATE PROPERTY LINE

NOTES

1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, FENCE, 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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Graphical Scale

0 20 ft



PROJECT:

**2016 PARK
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 1**

**MIDLAND PARK
 1005 MIDLAND ST
 MADISON, WI 53715**

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ITEM	DATE
Advised by: SCL	02-12-2016

PUBLIC WORKS PROJECT #:

7664

SHEET TITLE:

**DEMOLITION AND
 PROTECTION PLAN**

SHEET NUMBER:

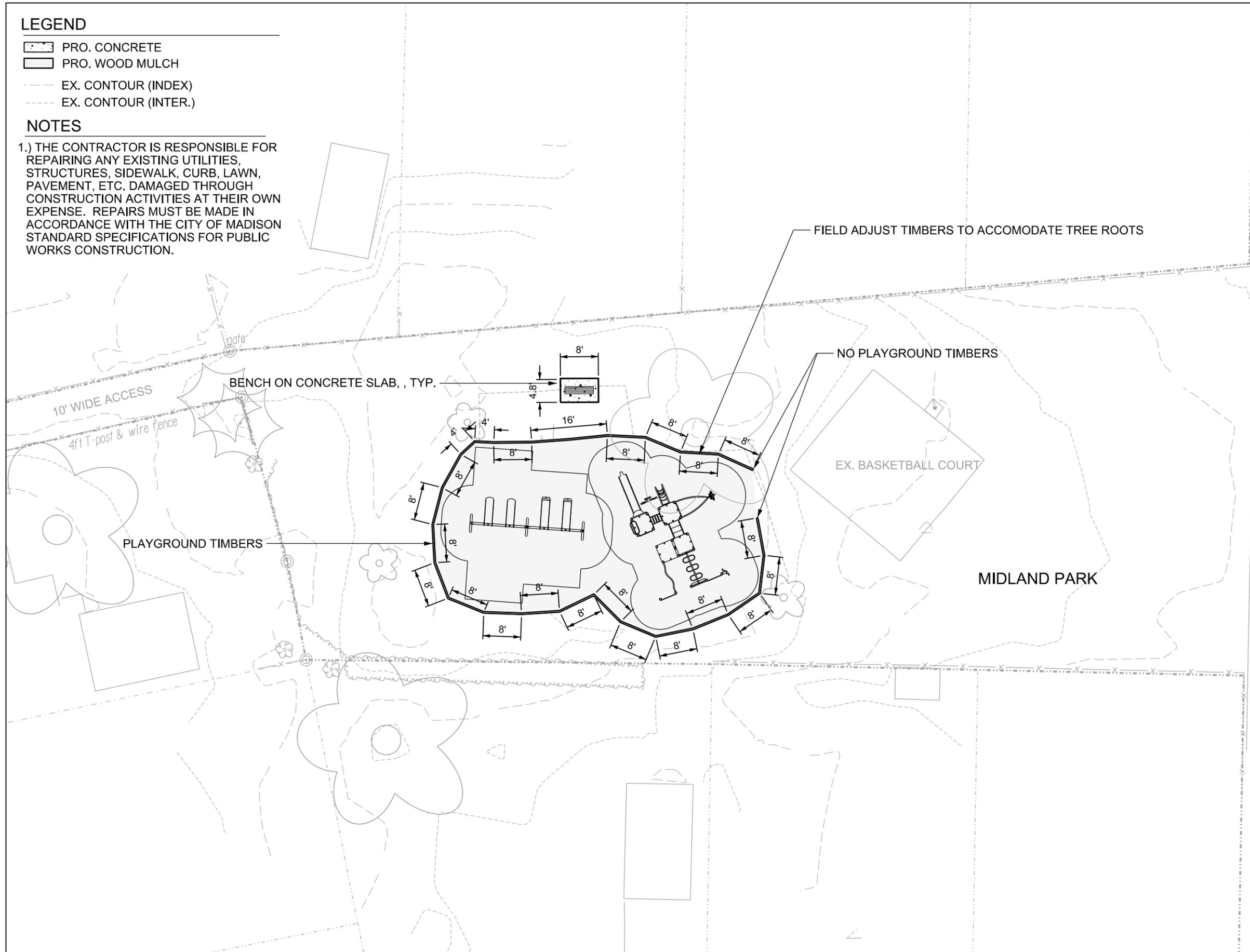
2.2

LEGEND

-  PRO. CONCRETE
-  PRO. WOOD MULCH
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)

NOTES

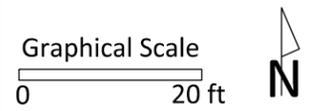
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PROJECT:
**2016 PARK
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 1**

**MIDLAND PARK
 1005 MIDLAND ST
 MADISON, WI 53715**

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PUBLIC WORKS PROJECT #:
7664

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
2.3

LEGEND

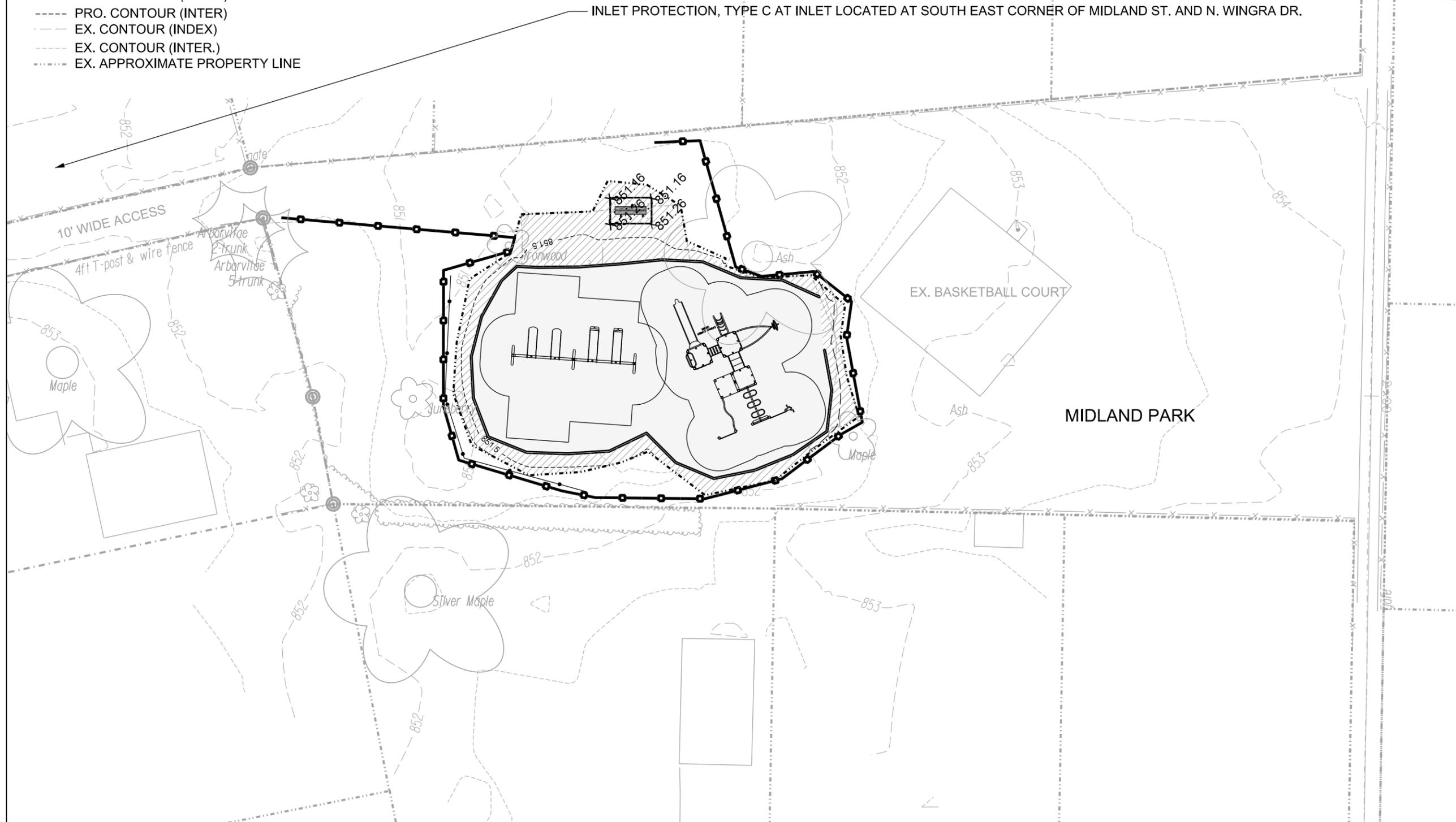
-  PRO. SPOT EL.
-  PRO. WOOD MULCH
-  PRO. CONCRETE
-  PRO. EROSION MATTING
-  PRO. GRADING LIMITS
-  PRO. CONSTRUCTION FENCE
-  PRO. SILT SOCK
-  PRO. CONTOUR (INDEX)
-  PRO. CONTOUR (INTER)
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  EX. APPROXIMATE PROPERTY LINE

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: 851.9
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 851.7
 PLAYGROUND SUBGRADE ELEVATION:850.7

INLET PROTECTION, TYPE C AT INLET LOCATED AT SOUTH EAST CORNER OF MIDLAND ST. AND N. WINGRA DR.



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Graphical Scale



PROJECT:
**2016 PARK
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 1**

**MIDLAND PARK
 1005 MIDLAND ST
 MADISON, WI 53715**

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ITEM	DATE
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PUBLIC WORKS PROJECT #:
7664

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

SHEET NUMBER:
2.4

**Midland Park Playground -
Earthwork Quantities**

City of Madison Public Works Contract
Date Revised: 12/30/2015

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 Factored (Uncom-pacted) Volume (cu yd)
Border Timbers Place (placeholder volume)	-2.3
Play Surface Excavate	117.1
Play Surface Place	-86.6
Subsoil Excavate	5.8
Subsoil Place	-61.9
Topsoil Excavate	19.2
Topsoil Place	-15.6
Gravel Place	-0.6
Concrete Place	-0.4
Grand Total	-25.3

Net subsoil (cu yd)	-56
Net topsoil (cu yd)	4
Net topsoil & subsoil (cu yd)	-52

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	25	CY	= Subsoil Excavate + Topsoil Excavate
20103 Excavation Cut - Pea Gravel	117	CY	= Play Surface Excavate
20201 Fill	56	CY	= Subsoil Excavate + Subsoil Place
20221 Topsoil	93	SY	= (Topsoil Place)/-.167
40102 Crushed Aggregate Base Course Gradation No. 2	0	tons	= (Gravel Place) * -2 ton/cubic yard
40201 3" Depth HMA Pavement Type E-0.3	0.0	tons	= Asphalt Place * -2.16 ton/cubic yard
90003 Playground Surfacing - Wood Mulch	95	CY	= Play Surface Place * -1.10

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PROJECT:
*2016 PARK
PLAYGROUND
IMPROVEMENTS
- GROUP 1*

*MIDLAND PARK
1005 MIDLAND ST
MADISON, WI 53715*

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subcontractors must check all details and dimensions of
their trade and be responsible for the same.

ITEM DATE
Advertised by: SCL 02-12-2016

PUBLIC WORKS PROJECT #:
7664

SHEET TITLE:
*DESIGN
COMPUTATIONS*

SHEET NUMBER:
2.5

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play
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Graphical Scale

0 20 ft



PROJECT:

**2016 PARK
PLAYGROUND
IMPROVEMENTS
- GROUP 1**

**RAYMOND RIDGE PARK
2138 MUIR FIELD RD
MADISON, WI 53719**

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ITEM	DATE
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PUBLIC WORKS PROJECT #:

7664

SHEET TITLE:

**PROJECT LOCATION
AND SITE ACCESS**

SHEET NUMBER:

3.1

CONSTRUCTION ACCESS FROM PATH OFF OF MUIR FIELD ROAD. PROTECT EXISTING SURFACES (LAWN, CURB, SIDEWALK, PAVEMENT, ETC.), ADJOINING PROPERTY FENCES, AND UTILITIES. REPAIR OF SURFACES AND UTILITIES IS INCIDENTAL TO THIS CONTRACT.

RAYMOND RIDGE PARK

EXISTING PLAY EQUIPMENT SHALL BE REMOVED BY CITY, EXISTING PEA GRAVEL SURFACING SHALL BE REMOVED BY CONTRACTOR.

PROPOSED CONSTRUCTION FENCE, NO CONSTRUCTION OUTSIDE OF FENCE LIMITS

PROPOSED STAGING AREA WITHIN CONSTRUCTION FENCE LIMITS

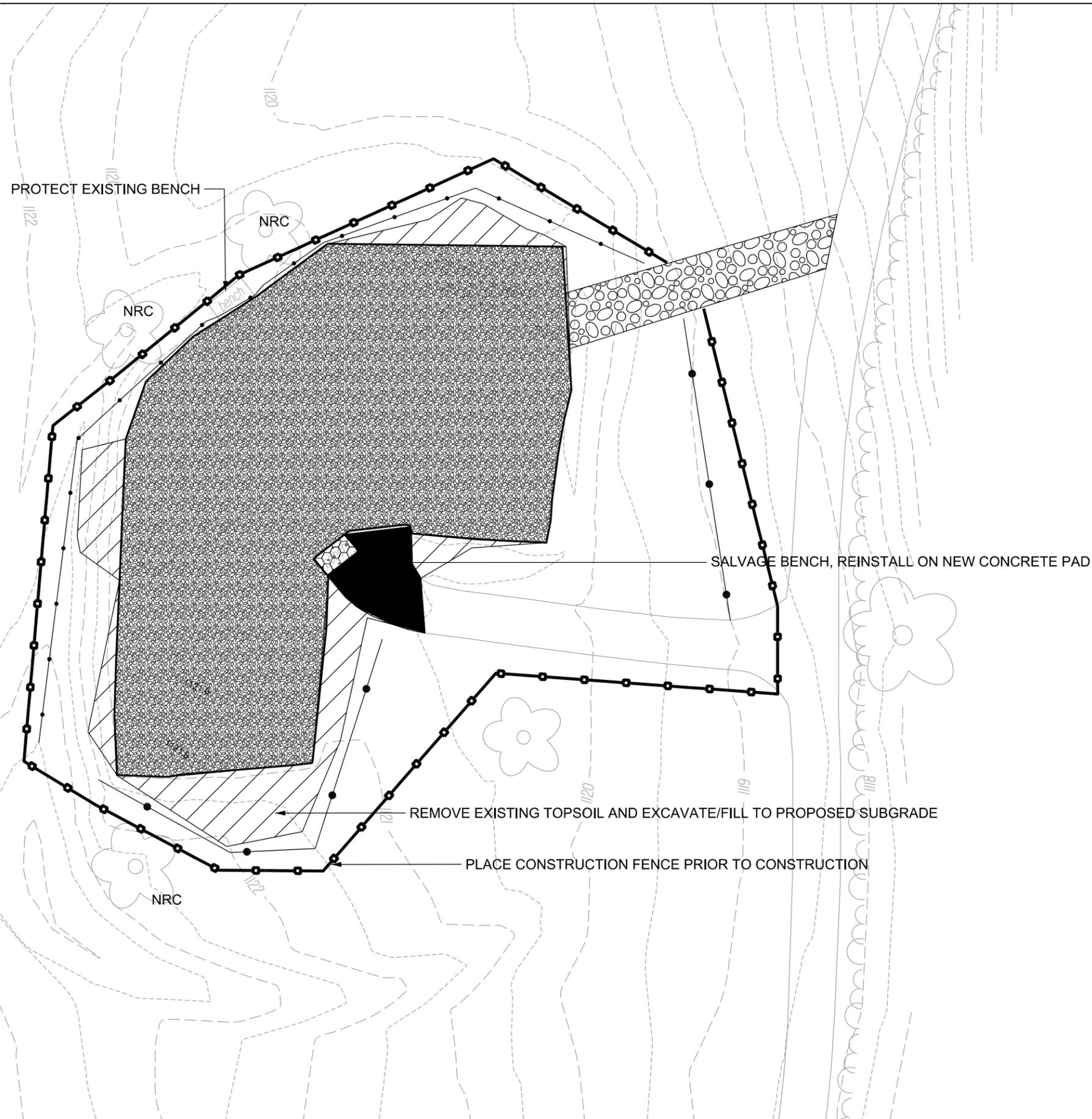
EX. ATHLETIC FIELD

LEGEND

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

NOTES

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 0 20 ft



PROJECT:
2016 PARK
PLAYGROUND
IMPROVEMENTS
- GROUP 1

RAYMOND RIDGE PARK
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Advised by: SCL	02-12-2016

PUBLIC WORKS PROJECT #:
7664

SHEET TITLE:
DEMOLITION AND
PROTECTION PLAN

SHEET NUMBER:
3.2

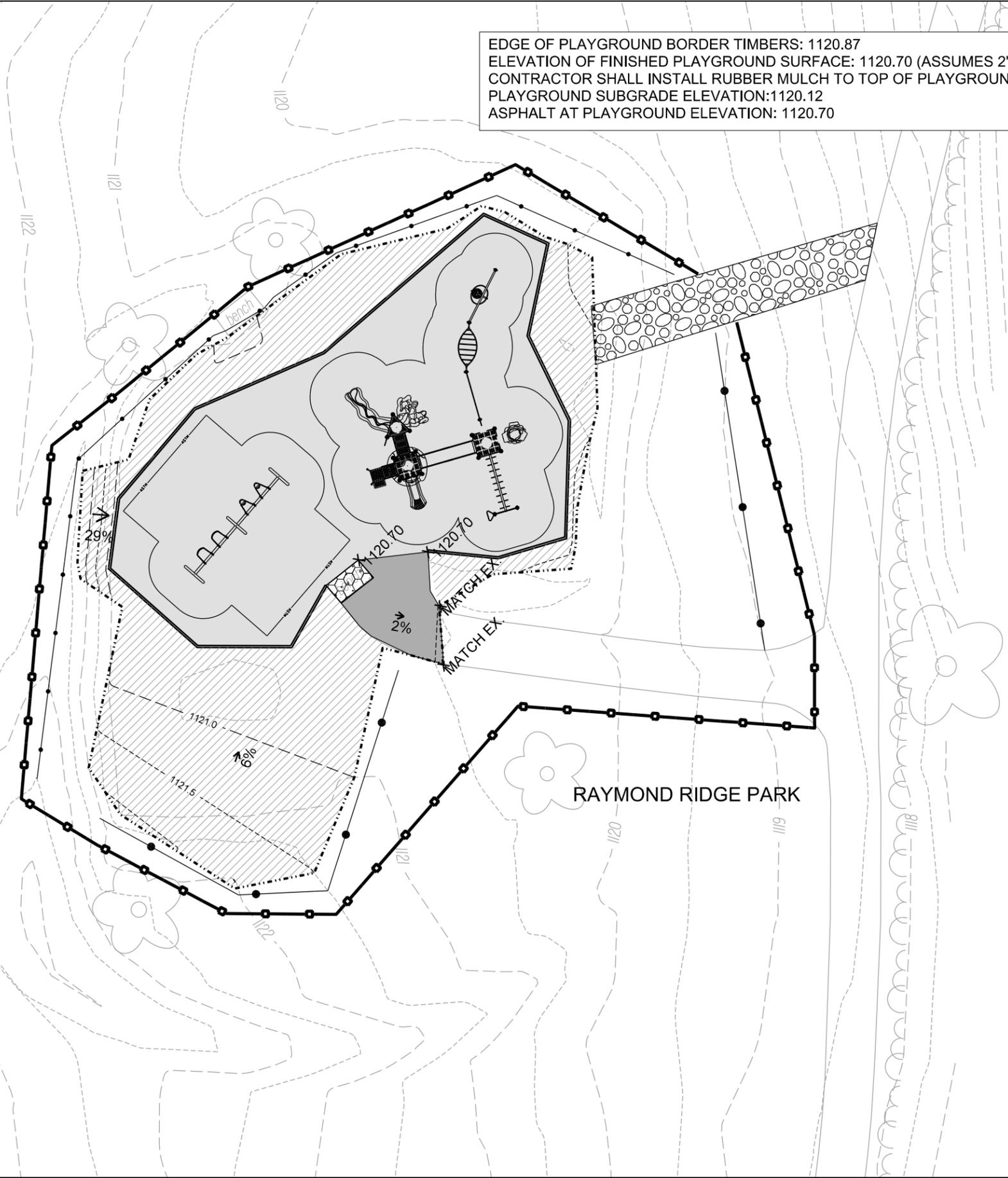
LEGEND

- PRO. SPOT EL.
- PRO. ASPHALT
- PRO. RUBBER MULCH
- PRO. EROSION MATTING
- PRO. CONSTRUCTION ENTRANCE
- PRO. GRADING LIMITS
- PRO. CONSTRUCTION FENCE
- PRO. SILT SOCK
- PRO. CONTOUR (INDEX)
- PRO. CONTOUR (INTER)
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)

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: 1120.87
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 1120.70 (ASSUMES 2" OF COMPACTION.
 CONTRACTOR SHALL INSTALL RUBBER MULCH TO TOP OF PLAYGROUND BORDER TIMBERS)
 PLAYGROUND SUBGRADE ELEVATION: 1120.12
 ASPHALT AT PLAYGROUND ELEVATION: 1120.70



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PROJECT:
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**RAYMOND RIDGE PARK
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ITEM	DATE
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PUBLIC WORKS PROJECT #:
7664

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

SHEET NUMBER:
3.4

Raymond Ridge Park Playground - Earthwork Quantities

City of Madison Public Works Contract

Date Revised: 2/8/2016

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 Factored (Uncompacted) Volume (cu yd)
Asphalt Place	-1.9
Border Timbers Place (placeholder volume)	-2.8
Play Surface Excavate	269.6
Play Surface Place	-69.5
Subsoil Excavate	1.8
Subsoil Place	-223.8
Topsoil Excavate	18.3
Topsoil Place	-52.7
Asphalt Excavate	1.9
Grand Total	-59.1
Net subsoil (cu yd)	-222
Net topsoil (cu yd)	-34
Net topsoil & subsoil (cu yd)	-256

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	22	CY	= Subsoil Excavate + Topsoil Excavate + Asphalt Excavate
20103 Excavation Cut - Pea Gravel	270	CY	= Play Surface Excavate
20201 Fill	222	CY	= Subsoil Excavate + Subsoil Place
20221 Topsoil	316	SY	= (Topsoil Place)/-.167
40102 Crushed Aggregate Base Course Gradation No. 2	2	tons	= (Gravel Place) * -2 ton/cubic yard
40201 3" Depth HMA Pavement Type E-0.3 & 3	4.2	tons	= Asphalt Place * -2.16 ton/cubic yard
90004 Playground Surfacing - Rubber Mulch	76	CY	= Play Surface Place * -1.10

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Madison, WI 53701-2987

play
**MADISON
PARKS**

PROJECT:
*2016 PARK
PLAYGROUND
IMPROVEMENTS
- GROUP 1*

*RAYMOND RIDGE PARK
2138 MUIR FIELD RD
MADISON, WI 53719*

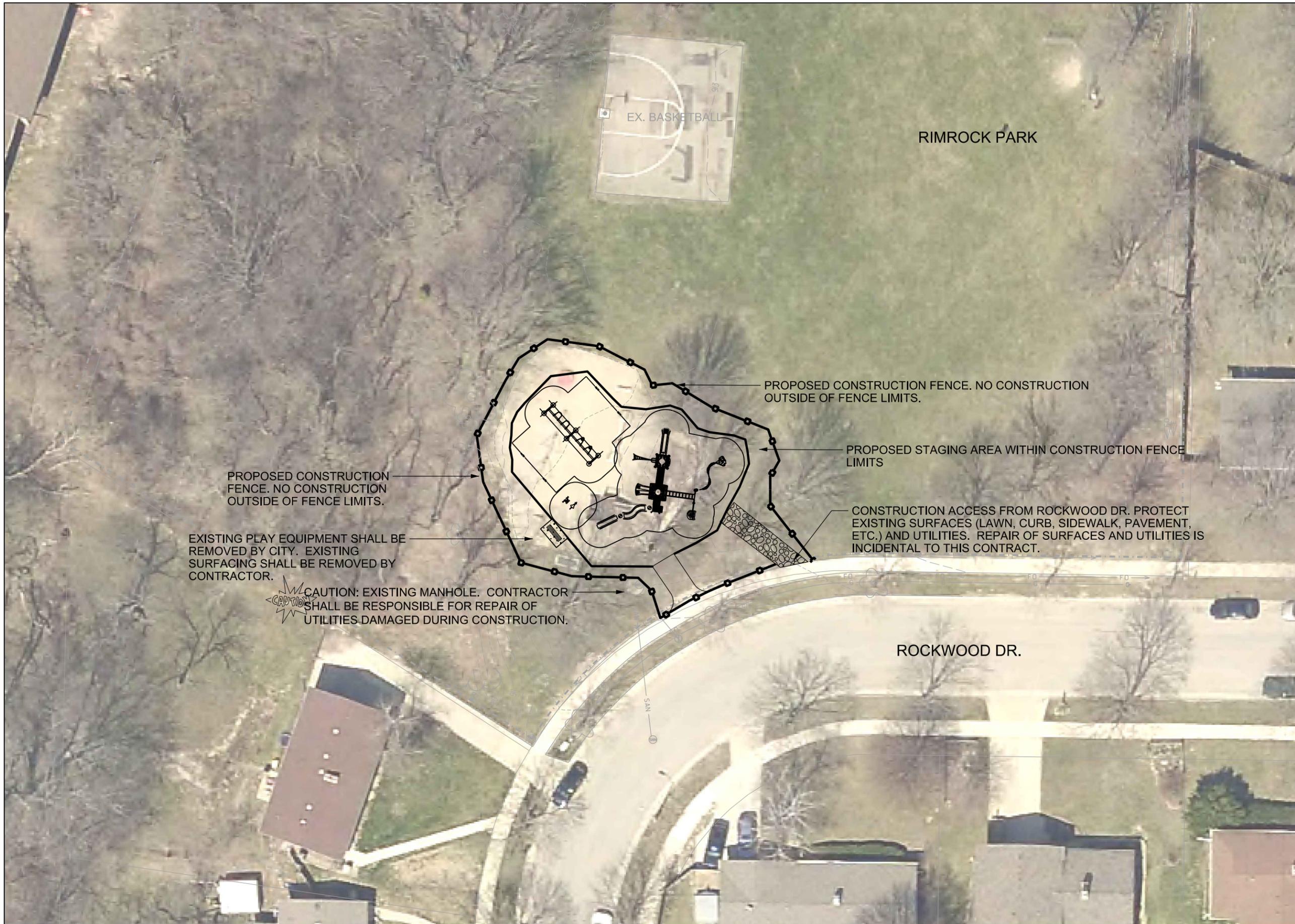
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ITEM DATE
Advertised by: SCL 02-12-2016

PUBLIC WORKS PROJECT #:
7664

SHEET TITLE:
**DESIGN
COMPUTATIONS**

SHEET NUMBER:
3.5



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 Department of Public Works
PARKS DIVISION

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play
MADISON
PARKS



PROJECT:
**2016 PARK
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 1**

**RIMROCK PARK
 2906 ROCKWOOD DR
 MADISON, WI 53713**

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ITEM	DATE
Advised by: SCL	02-12-2016

PUBLIC WORKS PROJECT #:
7664

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

SHEET NUMBER:
4.1

City of Madison
 Department of Public Works
PARKS DIVISION

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Graphical Scale
 0 20 ft



PROJECT:
**2016 PARK
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 1**

**RIMROCK PARK
 2906 ROCKWOOD DR
 MADISON, WI 53713**

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ITEM	DATE
Advertised by: SCL	02-12-2016

PUBLIC WORKS PROJECT #:
7664

SHEET TITLE:
**DEMOLITION &
 PROTECTION PLAN**

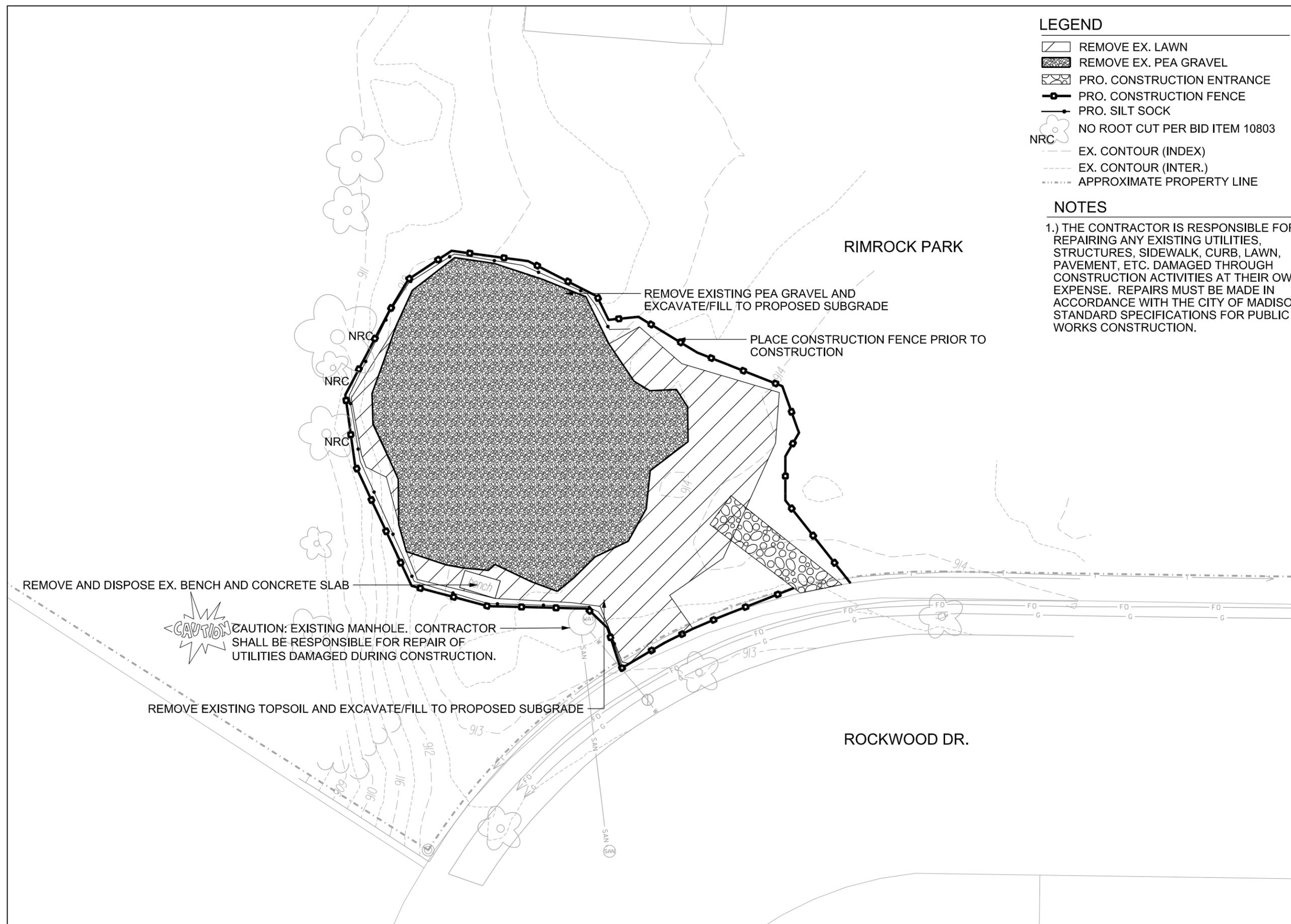
SHEET NUMBER:
4.2

LEGEND

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

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.



RIMROCK PARK

ROCKWOOD DR.

REMOVE EXISTING PEA GRAVEL AND EXCAVATE/FILL TO PROPOSED SUBGRADE

PLACE CONSTRUCTION FENCE PRIOR TO CONSTRUCTION

REMOVE AND DISPOSE EX. BENCH AND CONCRETE SLAB

CAUTION CAUTION: EXISTING MANHOLE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION.

REMOVE EXISTING TOPSOIL AND EXCAVATE/FILL TO PROPOSED SUBGRADE

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play
MADISON
PARKS

Graphical Scale



PROJECT:
**2016 PARK
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 1**

**RIMROCK PARK
 2906 ROCKWOOD DR
 MADISON, WI 53713**

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ITEM	DATE
Advertised by: SCL	02-12-2016

PUBLIC WORKS PROJECT #:
7664

SHEET TITLE:
SITE PLAN

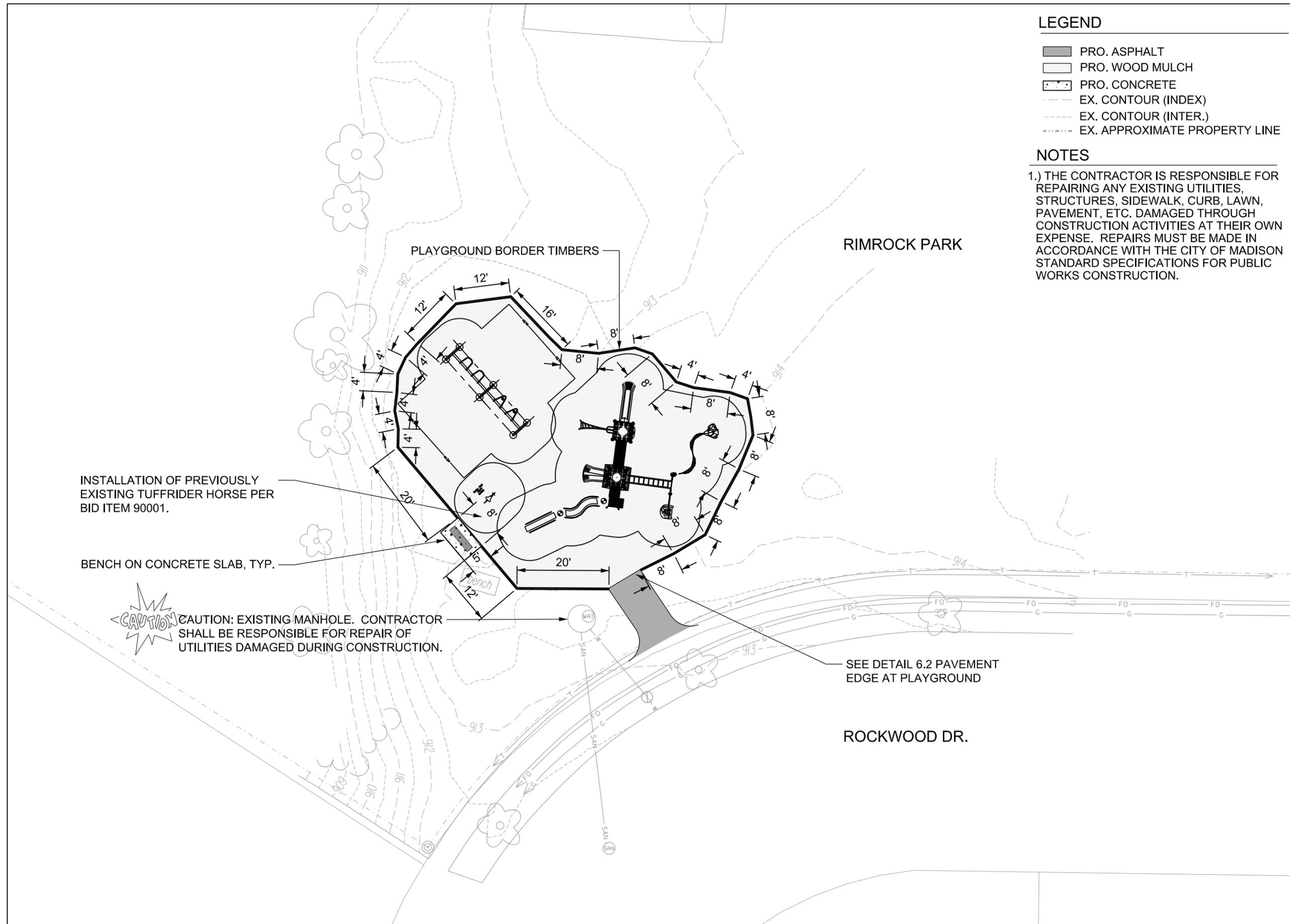
SHEET NUMBER:
4.3

LEGEND

- PRO. ASPHALT
- PRO. WOOD MULCH
- PRO. CONCRETE
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)
- EX. APPROXIMATE PROPERTY LINE

NOTES

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INSTALLATION OF PREVIOUSLY EXISTING TUFFRIDER HORSE PER BID ITEM 90001.

BENCH ON CONCRETE SLAB, TYP.

CAUTION CAUTION: EXISTING MANHOLE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION.

RIMROCK PARK

SEE DETAIL 6.2 PAVEMENT EDGE AT PLAYGROUND

ROCKWOOD DR.

EDGE OF PLAYGROUND BORDER TIMBERS: 913.48
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 913.31
 PLAYGROUND SUBGRADE ELEVATION: 912.31
 ASPHALT AT PLAYGROUND ELEVATION: 913.31

LEGEND

- PRO. SPOT EL.
- PRO. ASPHALT
- PRO. WOOD MULCH
- PRO. CONCRETE
- PRO. EROSION MATTING
- PRO. CONSTRUCTION ENTRANCE
- PRO. GRADING LIMITS
- PRO. CONSTRUCTION FENCE
- PRO. SILT SOCK
- PRO. CONTOUR (INDEX)
- PRO. CONTOUR (INTER)
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)
- EX. APPROXIMATE PROPERTY LINE

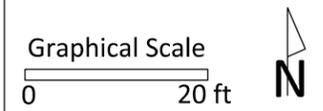
NOTES

- 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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play
MADISON PARKS



PROJECT:
**2016 PARK
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 1**

**RIMROCK PARK
 2906 ROCKWOOD DR
 MADISON, WI 53713**

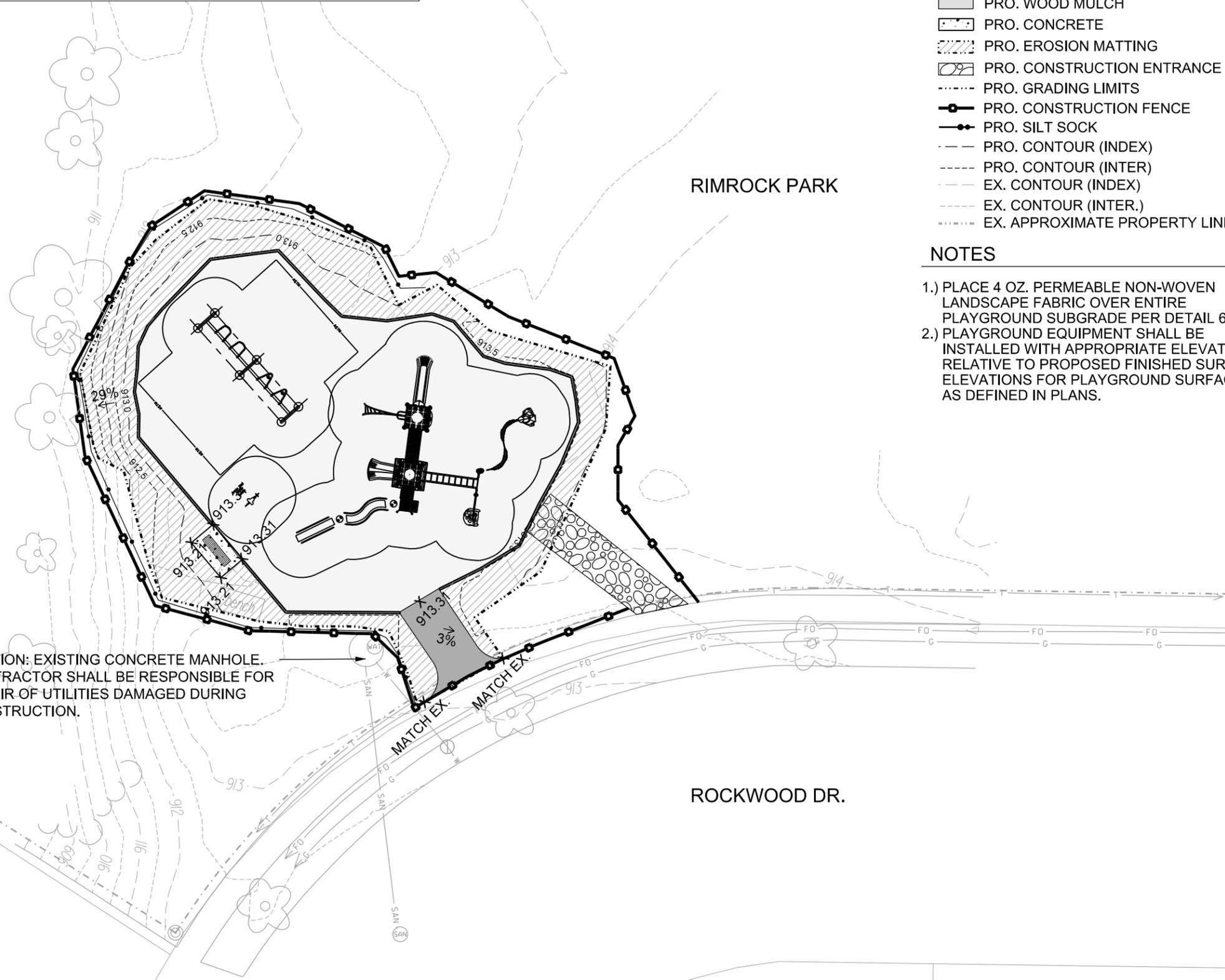
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ITEM	DATE
Advised by: SCL	02-12-2016

PUBLIC WORKS PROJECT #:
7664

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

SHEET NUMBER:
4.4



CAUTION CAUTION: EXISTING CONCRETE MANHOLE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION.

Rimrock Park Playground - Earthwork Quantities

City of Madison Public Works Contract
Date Revised: 2/8/2016

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 Factored (Uncompacted) Volume (cu yd)
Asphalt Place	-1.5
Border Timbers Place (placeholder volume)	-2.6
Gravel (Path) Place	-4.5
Play Surface Excavate	178.6
Play Surface Place	-121.5
Subsoil Excavate	36.2
Subsoil Place	-124.2
Topsoil Excavate	31.9
Topsoil Place	-29.4
Concrete Place	-0.6
Gravel Place	-0.9
Grand Total	-38.4

Net subsoil (cu yd)	-88
Net topsoil (cu yd)	3
Net topsoil & subsoil (cu yd)	-85

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	68	CY	= Subsoil Excavate + Topsoil Excavate
20103 Excavation Cut - Pea Gravel	179	CY	= Play Surface Excavate
20201 Fill	88	CY	= Subsoil Excavate + Subsoil Place
20221 Topsoil	176	SY	= (Topsoil Place)/-.167
40102 Crushed Aggregate Base Course Gradation No. 2	9	tons	= (Gravel Place) * -2 ton/cubic yard
40201 3" Depth HMA Pavement Type E-0.3	3.2	tons	= Asphalt Place * -2.16 ton/cubic yard
90003 Playground Surfacing - Wood Mulch	134	CY	= Play Surface Place * -1.10

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Department of Public Works
PARKS DIVISION

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PROJECT:
2016 PARK PLAYGROUND IMPROVEMENTS - GROUP 1

*RIMROCK PARK
2906 ROCKWOOD DR
MADISON, WI 53713*

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ITEM DATE
Advised by: SCL 02-12-2016

PUBLIC WORKS PROJECT #:
7664

SHEET TITLE:
DESIGN COMPUTATIONS

SHEET NUMBER:
4.5

City of Madison
Department of Public Works
PARKS DIVISION

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play
**MADISON
PARKS**

Graphical Scale

0 30 ft



PROJECT:

**2016 PARK
PLAYGROUND
IMPROVEMENTS
- GROUP 1**

**WAUNONA PARK
5323 RAYWOOD RD
MADISON, WI 53713**

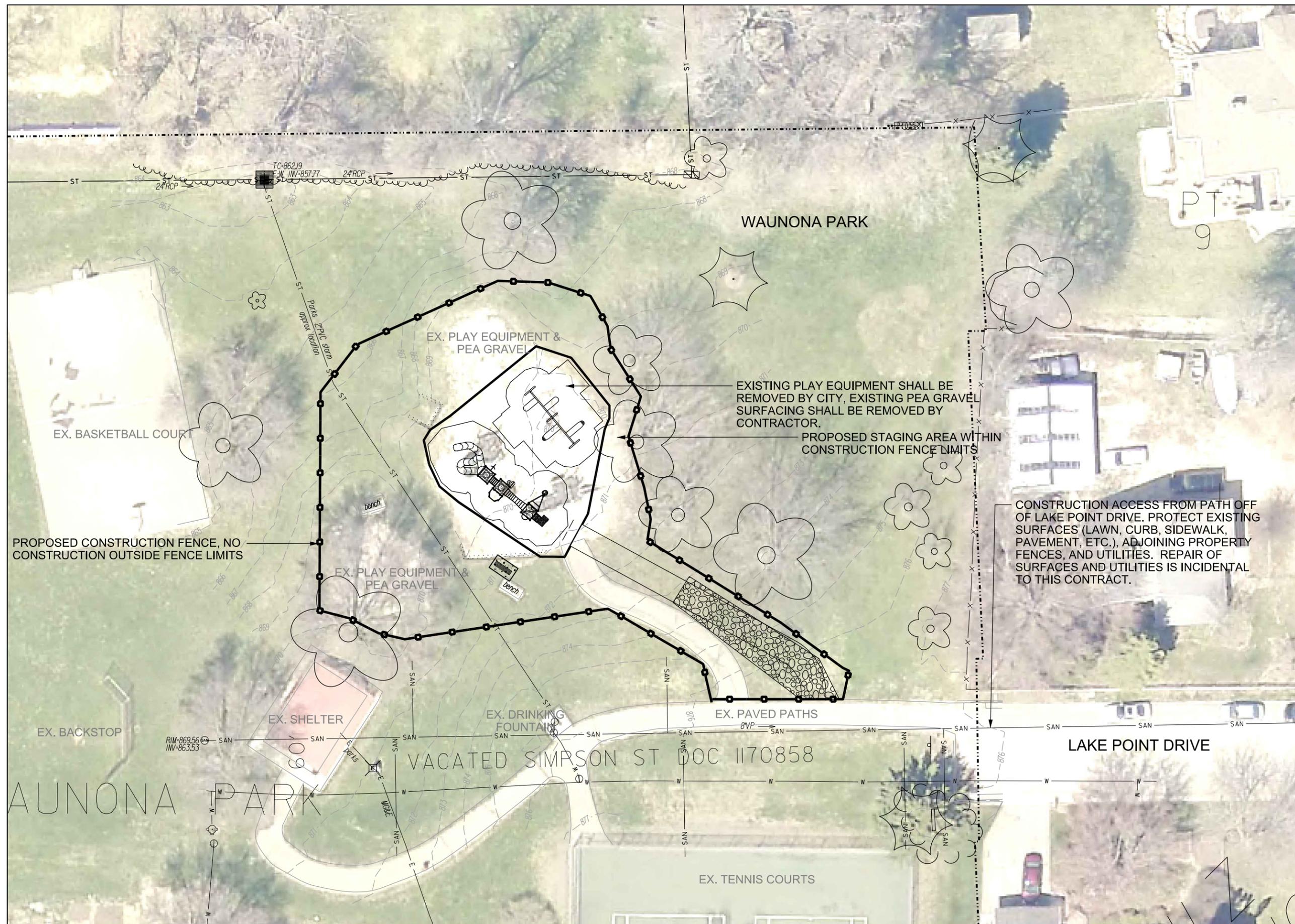
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ITEM	DATE
Advised by: SCL	02-12-2016

PUBLIC WORKS PROJECT #:
7664

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

SHEET NUMBER:
5.1



LEGEND

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

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.

REMOVE AND DISPOSE EX. 1' TALL RETAINING WALL

EX. BACKSTOP

REMOVE AND DISPOSE EX. BENCH & CONCRETE

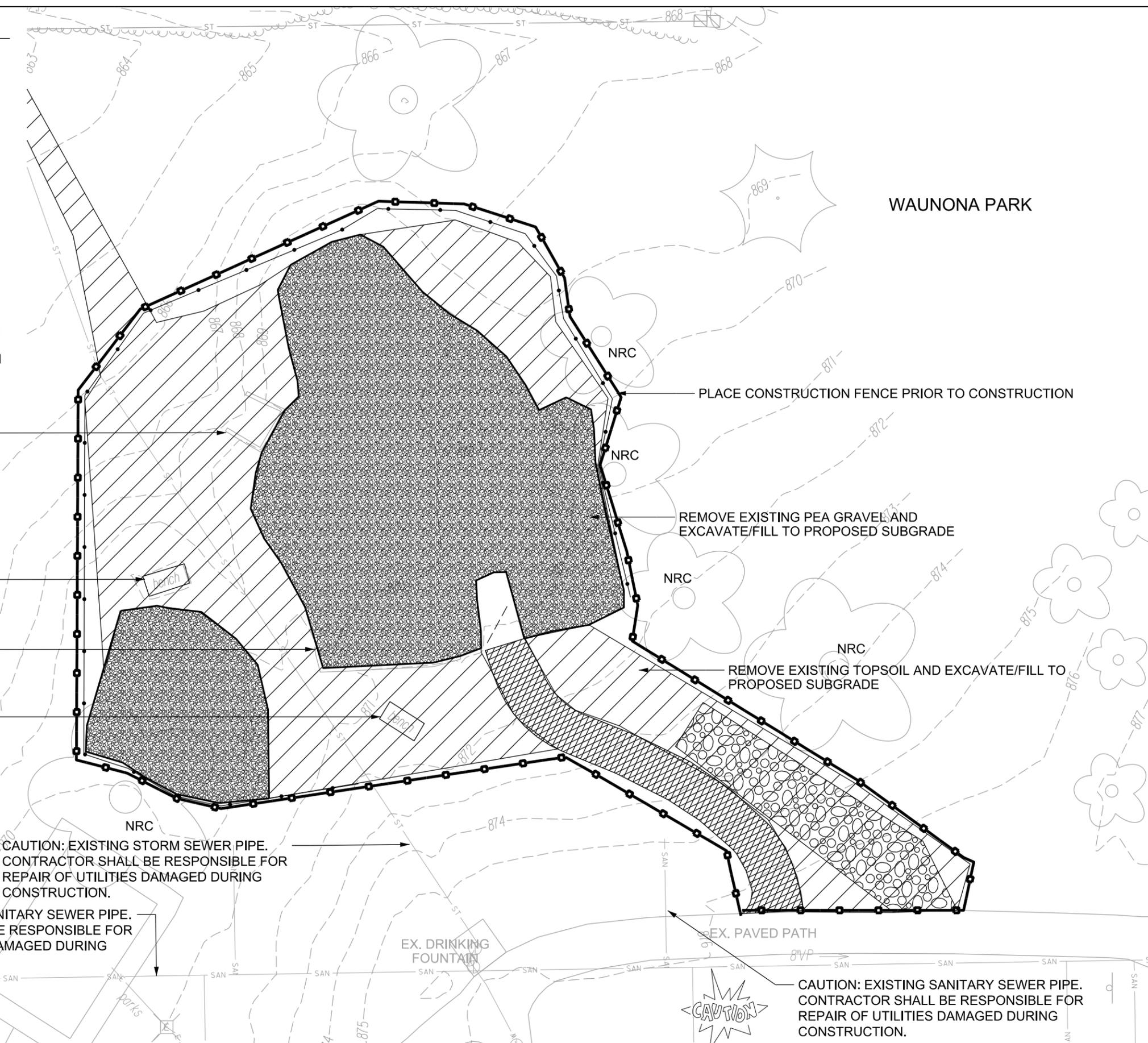
REMOVE AND DISPOSE EX. 1' TALL RETAINING WALL

REMOVE AND DISPOSE EX. BENCH & CONCRETE

CAUTION CAUTION: EXISTING STORM SEWER PIPE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION.

CAUTION CAUTION: EXISTING SANITARY SEWER PIPE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION.

CAUTION CAUTION: EXISTING SANITARY SEWER PIPE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION.



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PROJECT:
**2016 PARK
PLAYGROUND
IMPROVEMENTS
- GROUP 1**

**WAUNONA PARK
5323 RAYWOOD RD
MADISON, WI 53713**

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ITEM	DATE
Advised by: SCL	02-12-2016

PUBLIC WORKS PROJECT #:
7664

SHEET TITLE:
**DEMOLITION AND
PROTECTION PLAN**

SHEET NUMBER:
5.2

LEGEND

- PRO. ASPHALT
- PRO. WOOD MULCH
- PRO. CONCRETE
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)
- EX. APPROXIMATE PROPERTY LINE

NOTES

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play
MADISON
PARKS

Graphical Scale
 0 20 ft



PROJECT:
**2016 PARK
 PLAYGROUND
 IMPROVEMENTS
 - GROUP 1**

**WAUNONA PARK
 5323 RAYWOOD RD
 MADISON, WI 53713**

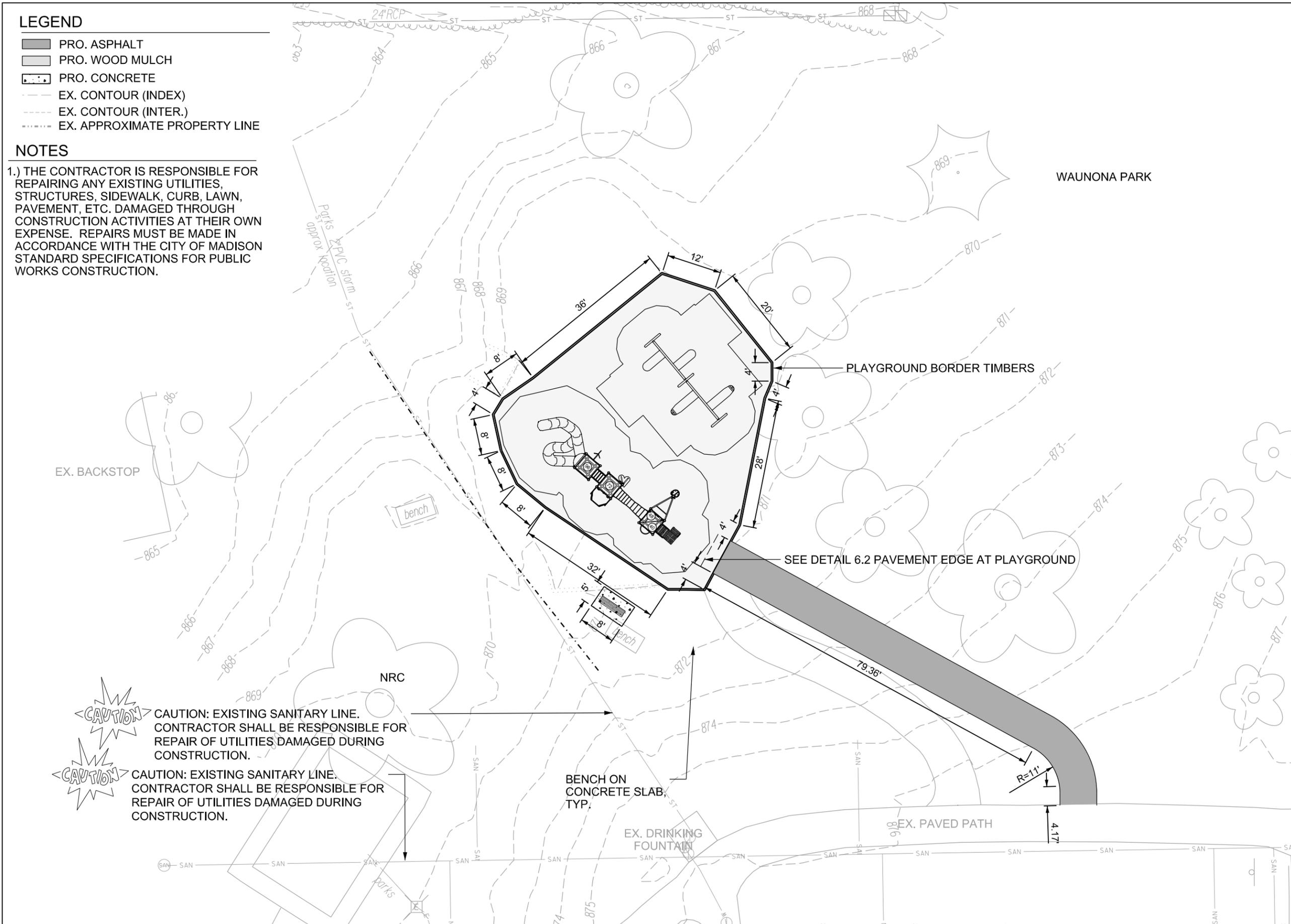
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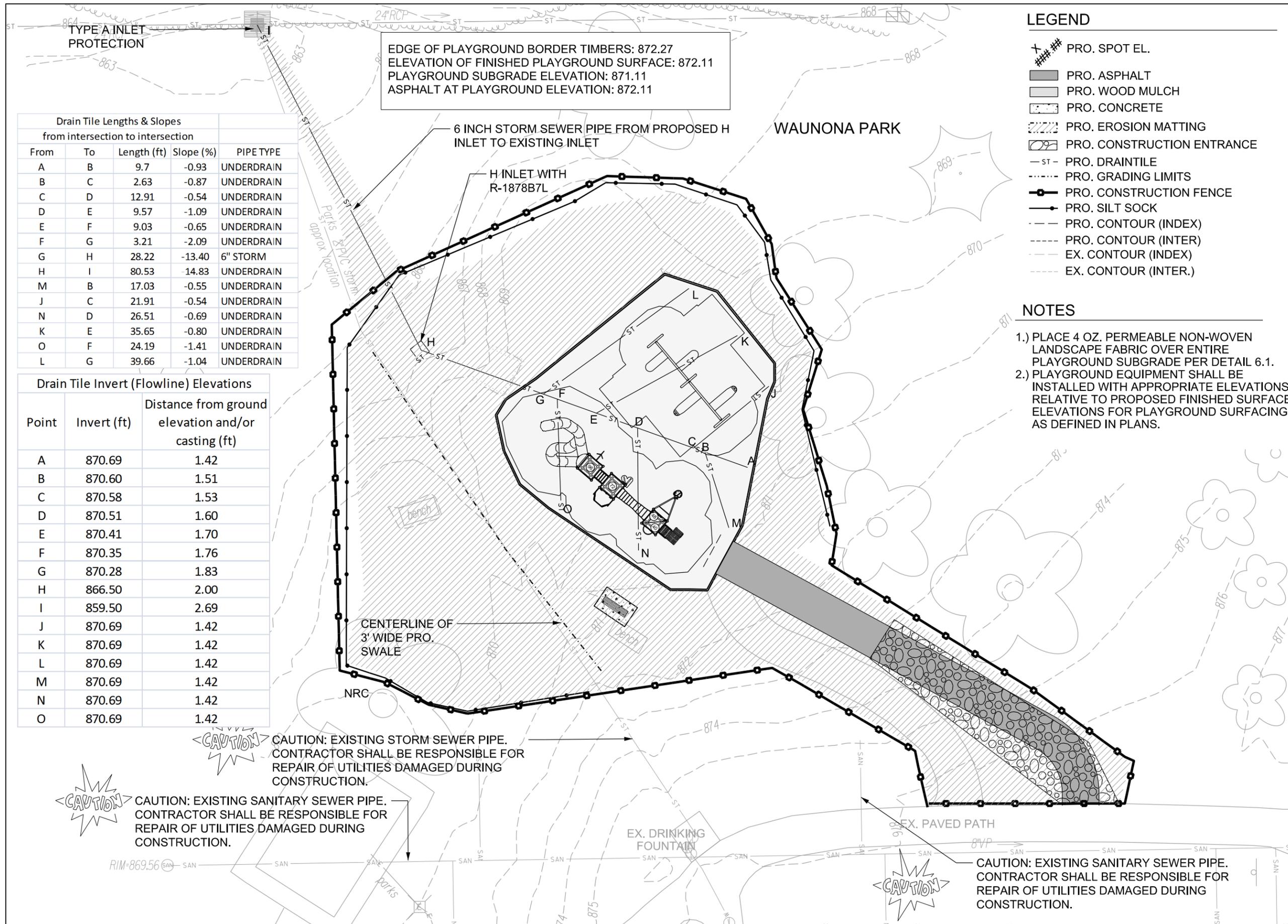
ITEM	DATE
Advised by: SCL	02-12-2016

PUBLIC WORKS PROJECT #:
7664

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
5.3





Drain Tile Lengths & Slopes
from intersection to intersection

From	To	Length (ft)	Slope (%)	PIPE TYPE
A	B	9.7	-0.93	UNDERDRAIN
B	C	2.63	-0.87	UNDERDRAIN
C	D	12.91	-0.54	UNDERDRAIN
D	E	9.57	-1.09	UNDERDRAIN
E	F	9.03	-0.65	UNDERDRAIN
F	G	3.21	-2.09	UNDERDRAIN
G	H	28.22	-13.40	6" STORM
H	I	80.53	-14.83	UNDERDRAIN
M	B	17.03	-0.55	UNDERDRAIN
J	C	21.91	-0.54	UNDERDRAIN
N	D	26.51	-0.69	UNDERDRAIN
K	E	35.65	-0.80	UNDERDRAIN
O	F	24.19	-1.41	UNDERDRAIN
L	G	39.66	-1.04	UNDERDRAIN

Drain Tile Invert (Flowline) Elevations

Point	Invert (ft)	Distance from ground elevation and/or casting (ft)
A	870.69	1.42
B	870.60	1.51
C	870.58	1.53
D	870.51	1.60
E	870.41	1.70
F	870.35	1.76
G	870.28	1.83
H	866.50	2.00
I	859.50	2.69
J	870.69	1.42
K	870.69	1.42
L	870.69	1.42
M	870.69	1.42
N	870.69	1.42
O	870.69	1.42

LEGEND

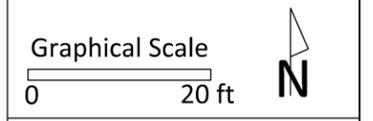
- PRO. SPOT EL.
- PRO. ASPHALT
- PRO. WOOD MULCH
- PRO. CONCRETE
- PRO. EROSION MATTING
- PRO. CONSTRUCTION ENTRANCE
- PRO. DRAINTILE
- PRO. GRADING LIMITS
- PRO. CONSTRUCTION FENCE
- PRO. SILT SOCK
- PRO. CONTOUR (INDEX)
- PRO. CONTOUR (INTER)
- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER.)

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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MADISON PARKS



PROJECT:
2016 PARK PLAYGROUND IMPROVEMENTS - GROUP 1

WAUNONA PARK
5323 RAYWOOD RD
MADISON, WI 53713

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ITEM	DATE
Advised by: SCL	02-12-2016
Addendum 1	02-23-2016

PUBLIC WORKS PROJECT #:
7664

SHEET TITLE:
GRADING AND EROSION CONTROL PLAN

SHEET NUMBER:
5.4

Waunona Park Playground - Earthwork Quantities

City of Madison Public Works Contract
Date Revised: 2/8/2016

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 Factored (Uncompacted) Volume (cu yd)
Asphalt Excavate	6.1
Asphalt Place	-7.5
Border Timbers Place (placeholder volume)	-2.3
Concrete (Bench) Excavate	1.0
Concrete (Bench) Place	-0.6
Drain Tile Stone Place	-12.9
Gravel (Bench) Place	-0.3
Gravel (Clean) Excavate	7.9
Gravel (Dirty) Excavate	4.7
Gravel (Path) Place	-25.6
Inlet Place (placeholder volume)	-0.9
Play Surface Excavate	264.3
Play Surface Place	-96.7
Subsoil Excavate	30.9
Subsoil Place	-575.4
Topsoil Excavate	108.1
Topsoil Place	-149.6
Wall Excavate	3.1
Grand Total	-446.0
Net subsoil (cu yd)	-545
Net topsoil (cu yd)	-42
Net topsoil & subsoil (cu yd)	-586

Bid Item	Quantity	Units	Relation to Table Above
20101 Excavation Cut	159	CY	= Subsoil Excavate + Topsoil Excavate + Concrete (Bench) Excavate + (Gravel Clean & Dirty Excavate) + Asphalt Excavate
20103 Excavation Cut - Pea Gravel	264	CY	= Play Surface Excavate
20201 Fill	545	CY	= difference of Subsoil Place & Subsoil Excavate
20221 Topsoil	896	SY	= (Topsoil Place)/-.167
40102 Crushed Aggregate Base Course Gradation No. 2	51	tons	= (Gravel (Path) Place) * -2 ton/cubic yard
40201 3" Depth HMA Pavement Type E-0.3	16.1	tons	= Asphalt Place * -2.16 ton/cubic yard
90003 Playground Surfacing - Wood Mulch	106	CY	= Play Surface Place * -1.10

City of Madison
Department of Public Works
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PROJECT:
2016 PARK PLAYGROUND IMPROVEMENTS - GROUP 1

*WAUNONA PARK
5323 RAYWOOD RD
MADISON, WI 53713*

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ITEM DATE
Advised by: SCL 02-12-2016

PUBLIC WORKS PROJECT #:
7664

SHEET TITLE:
DESIGN COMPUTATIONS

SHEET NUMBER:
5.5

City of Madison
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PARKS DIVISION

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play
**MADISON
 PARKS**

PROJECT:
**2016 PARK
 PLAYGROUND
 IMPROVEMENTS
 GROUP 1**

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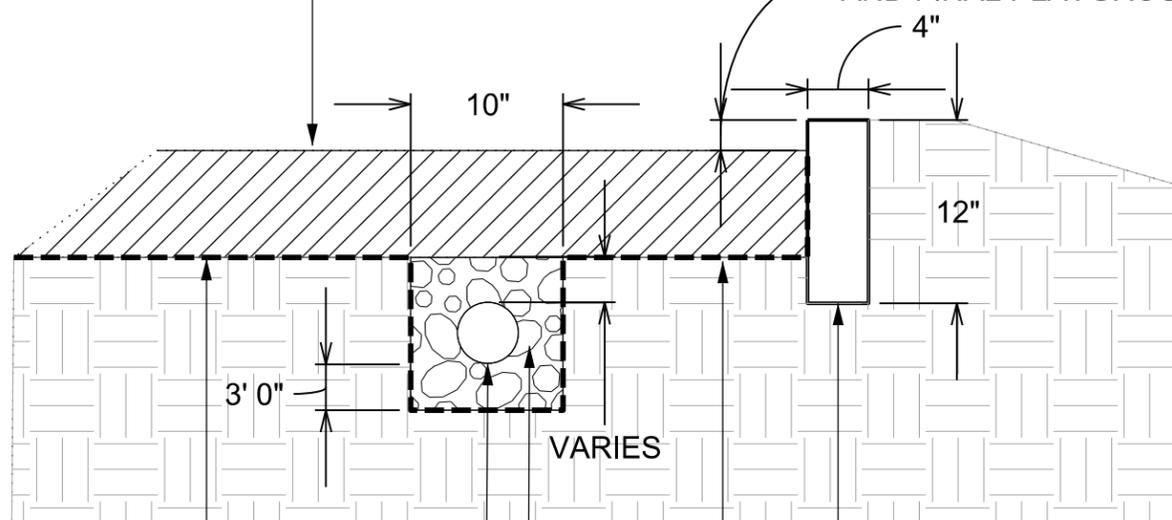
PUBLIC WORKS PROJECT #:
7664

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

SHEET NUMBER:
6.1

PLAYGROUND SURFACING

2" LIP BETWEEN PLAYGROUND BORDER TIMBERS AND FINAL PLAYGROUND SURFACING GRADE



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 (INSTALL 9",
 OF SHREDDED RUBBER TO ASSUME 2" COMPACTION)
 - MIN. 12" FROM FROM PLAYGROUND SURFACE
 FINISHED GRADE FOR WOOD MULCH

PROPOSED PLAYGROUND BORDER
 TIMBERS PER MANUFACTURER'S
 INSTALLATION SPECIFICATIONS

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PROJECT:

*2015 PARK
 PLAYGROUNDS -
 GROUP 2*

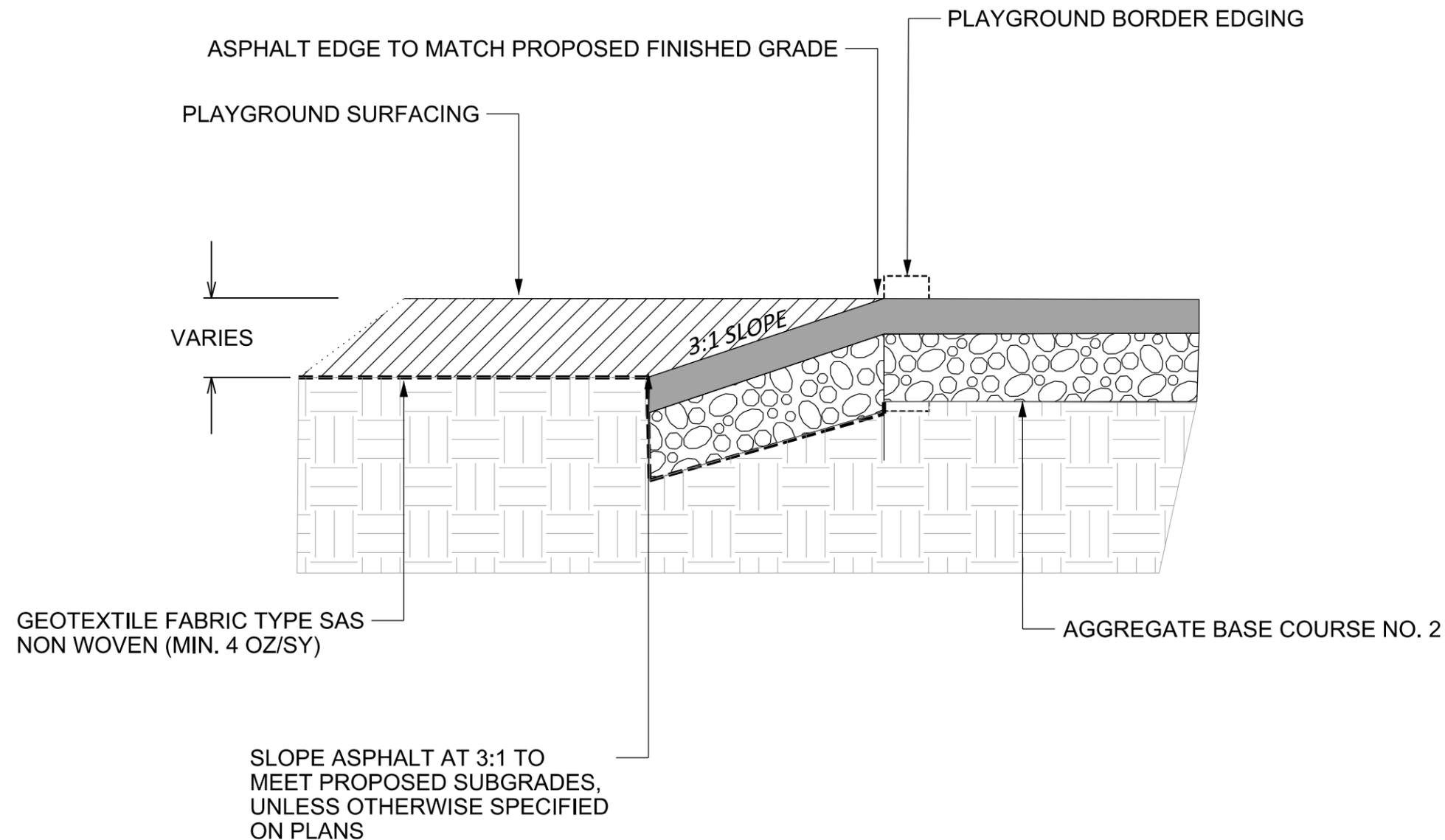
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ITEM	DATE
Advertised by: SCL	02-12-2016

PUBLIC WORKS PROJECT #:
7664

SHEET TITLE:
**PAVEMENT EDGE
 AT PLAYGROUND**

SHEET NUMBER:
6.2



NOTE: AT TENNEY PARK PLAYGROUND THE PAVEMENT EDGE IS CONCRETE, NOT ASPHALT. THE CONTRACTOR SHALL FOLLOW THE ABOVE DETAIL, SLOPING THE CONCRETE AT 3:1 TO MEET PROPOSED SUBGRADES. BASE COURSE MATERIAL AND DEPTHS FOR CONCRETE SHALL FOLLOW THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.