

SHEET SCHEDULE

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

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

SHEET SCHEDULE (CONTINUED)

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

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

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

- 6.1 WEXFORD PARK - PROJECT LOCATION AND SITE ACCESS
- 6.2 WEXFORD PARK - DEMOLITION AND PROTECTION PLAN
- 6.3 WEXFORD PARK - SITE PLAN
- 6.4 WEXFORD PARK - GRADING AND EROSION CONTROL PLAN
- 6.5 WEXFORD PARK - DESIGN COMPUTATIONS

- 7.1 TYPICAL PLAYGROUND SURFACING WITH UNDERDRAIN PAVEMENT EDGE AT PLAYGROUND
- 7.2 TYPICAL PLAYGROUND SURFACING WITH UNDERDRAIN PAVEMENT EDGE AT PLAYGROUND

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**

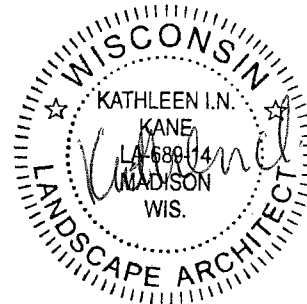


2017 PLAYGROUNDS - GROUP 2
CONTRACT 7930

MUNIS NO. 10543-51-130; 17340-51-130; 17440-51-130; 17341-51-130; 17342-51-130

PROJECT:

*2017 PARK
 PLAYGROUNDS -
 GROUP 2*



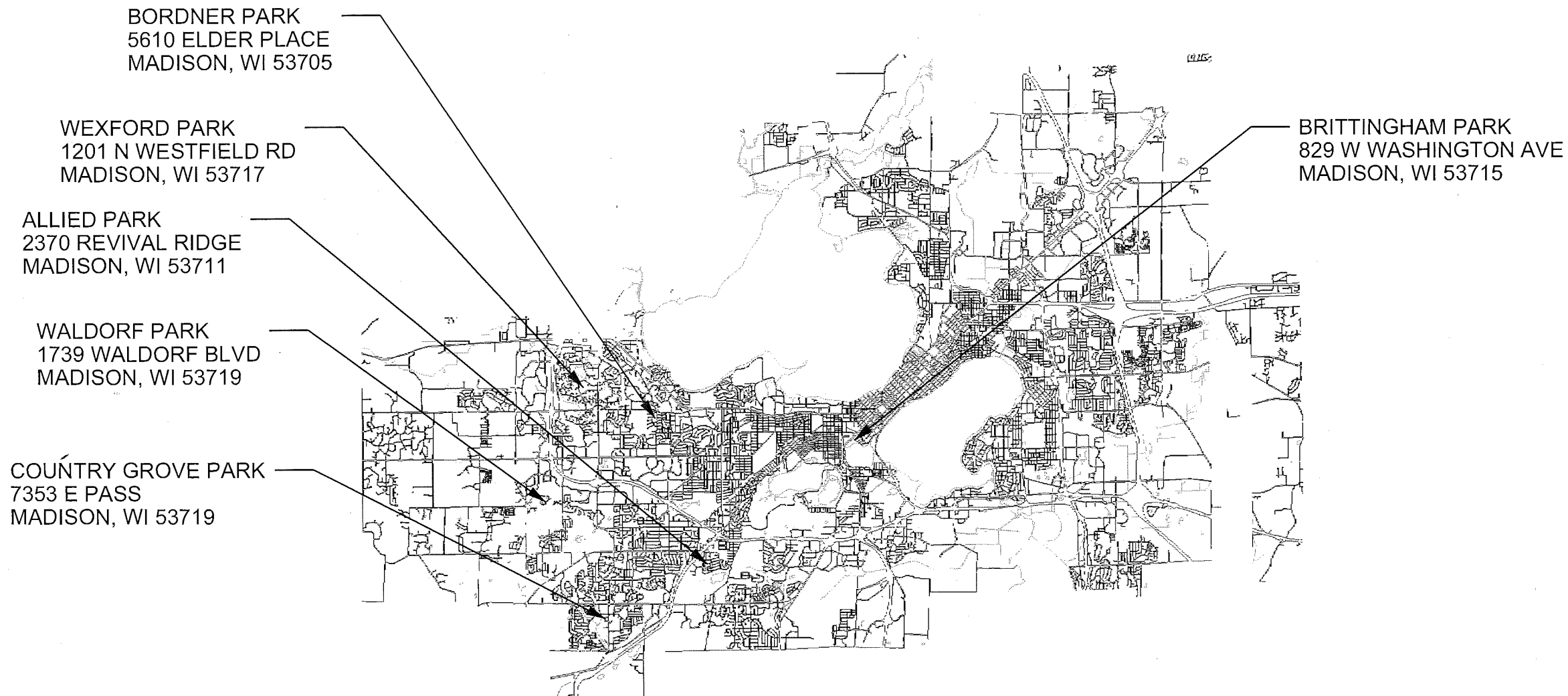
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

| ITEM | DATE |
|--------------|------------|
| Drawn by: KK | 04-14-2016 |
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| | |
| | |

PUBLIC WORKS PROJECT #:
7930

SHEET TITLE:

SHEET NUMBER:





City of Madison
Department of Public Works
PARKS DIVISION

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Madison, WI 53703

play
**MADISON
PARKS**

Graphical Scale
0 40 ft



PROJECT:
*2017
PLAYGROUNDS -
GROUP 2*

*ALLIED PARK
2370 REVIVAL RIDGE
MADISON, WI 53711*

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

PROPOSED CONSTRUCTION FENCE.
NO CONSTRUCTION OUTSIDE OF
FENCE LIMITS.

PROPOSED STAGING AREA WITHIN
CONSTRUCTION FENCE LIMITS

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 | 04-14-2017 |
| Approved by: | xx-xx-xxxx |
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PUBLIC WORKS PROJECT #:
7930

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

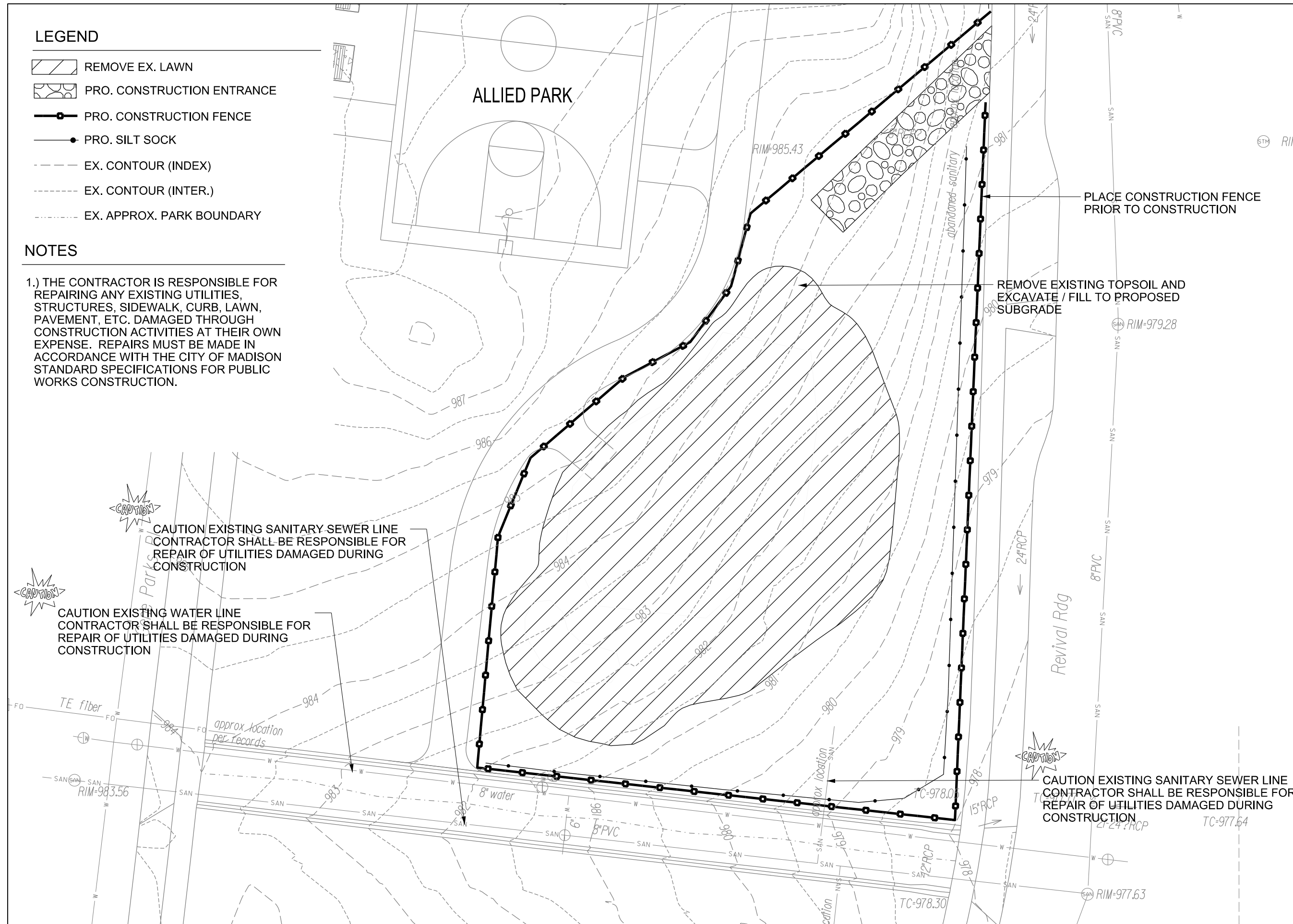
SHEET NUMBER:
1.1

LEGEND

-  REMOVE EX. LAWN
-  PRO. CONSTRUCTION ENTRANCE
-  PRO. CONSTRUCTION FENCE
-  PRO. SILT SOCK
-  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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 Department of Public Works
PARKS DIVISION

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 Madison, WI 53703

play
MADISON
PARKS

Graphical Scale
 0 20 ft 

PROJECT:
2017
PLAYGROUNDS -
GROUP 2

ALLIED PARK
2370 REVIVAL RIDGE
MADISON, WI 53711

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











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|--------------|------------|
| Drawn by: KK | 04-14-2017 |
| Approved by: | xx-xx-xxxx |
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PUBLIC WORKS PROJECT #:
7930

SHEET TITLE:
DEMOLITION AND
PROTECTION PLAN

SHEET NUMBER:
1.2

LEGEND

-  PRO. SPOT EL.
-  PRO. WOOD MULCH
-  PRO. PEA GRAVEL
-  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 OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 7.1.
- 2.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS.

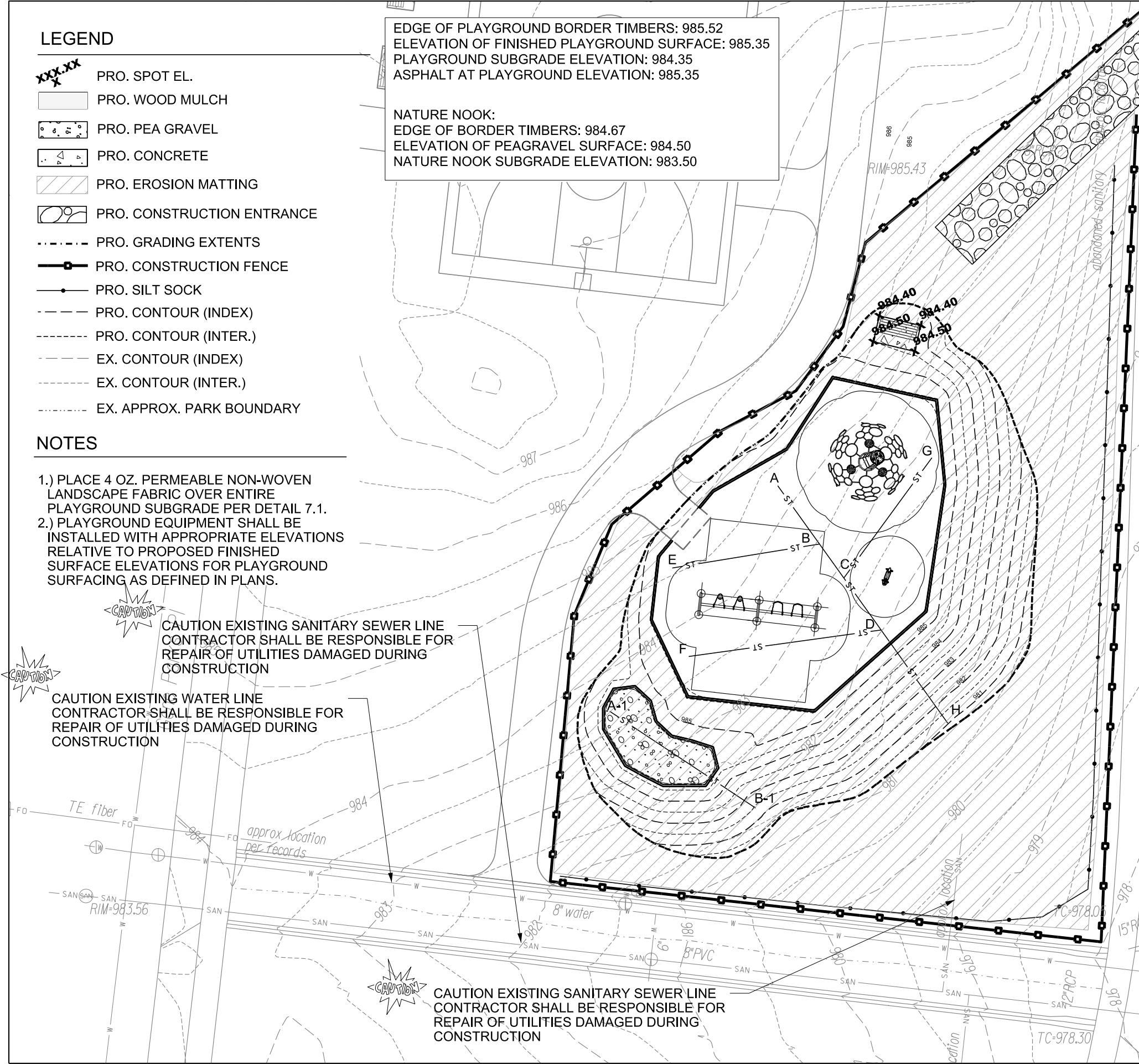
EDGE OF PLAYGROUND BORDER TIMBERS: 985.52
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 985.35
 PLAYGROUND SUBGRADE ELEVATION: 984.35
 ASPHALT AT PLAYGROUND ELEVATION: 985.35

NATURE NOOK:
 EDGE OF BORDER TIMBERS: 984.67
 ELEVATION OF PEAGRAVEL SURFACE: 984.50
 NATURE NOOK SUBGRADE ELEVATION: 983.50

CAUTION
 CAUTION EXISTING SANITARY SEWER LINE
 CONTRACTOR SHALL BE RESPONSIBLE FOR
 REPAIR OF UTILITIES DAMAGED DURING
 CONSTRUCTION

CAUTION
 CAUTION EXISTING WATER LINE
 CONTRACTOR SHALL BE RESPONSIBLE FOR
 REPAIR OF UTILITIES DAMAGED DURING
 CONSTRUCTION

CAUTION
 CAUTION EXISTING SANITARY SEWER LINE
 CONTRACTOR SHALL BE RESPONSIBLE FOR
 REPAIR OF UTILITIES DAMAGED DURING
 CONSTRUCTION



| Drain Tile Lengths & Slopes | | | |
|-----------------------------------|----|-------------|-----------|
| from intersection to intersection | | | |
| From | To | Length (ft) | Slope (%) |
| A | B | 13.51 | -3.70 |
| B | C | 7.87 | -3.69 |
| C | D | 12.03 | -3.66 |
| D | H | 21.58 | -3.66 |
| E | B | 28.07 | -2.81 |
| F | D | 36.53 | -3.37 |
| G | C | 28.07 | -2.81 |

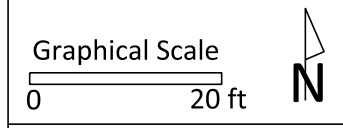
| Allied Park Playground | | |
|---|-------------|--|
| Drain Tile Invert (Flowline) Elevations | | |
| Point | Invert (ft) | Distance from top of timbers 985.52 (INCHES) |
| A | 983.02 | 26.16 |
| B | 982.52 | 32.16 |
| C | 982.23 | 35.64 |
| D | 981.79 | 40.92 |
| E | 983.02 | 26.16 |
| F | 983.02 | 26.16 |
| G | 983.02 | 26.16 |
| H | 981.00 | 50.40 |

| Drain Tile Lengths & Slopes | | | |
|-----------------------------------|-----|-------------|-----------|
| from intersection to intersection | | | |
| From | To | Length (ft) | Slope (%) |
| A-1 | B-1 | 32.96 | -1.00 |

| Allied Park Playground | | |
|---|-------------|--|
| Drain Tile Invert (Flowline) Elevations 2 | | |
| Point | Invert (ft) | Distance from top of timbers 984.67 (INCHES) |
| A-1 | 982.75 | 23.04 |
| B-1 | 982.42 | 33.36 |

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play
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PROJECT:
 2017
 PLAYGROUNDS-
 GROUP 2

ALLIED PARK
 2370 REVIVAL RIDGE
 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 | 04-14-2017 |
| Approved by: | xx-xx-xxxx |

PUBLIC WORKS PROJECT #:
7930

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

SHEET NUMBER:
1.4



PROJECT:

2017
 PLAYGROUNDS -
 GROUP 2

ALLIED PARK
 2370 REVIVAL RIDGE
 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 04-14-2017
 Approved by: xx-xx-xxxx

PUBLIC WORKS PROJECT #:
7930

SHEET TITLE:
**DESIGN
 COMPUTATIONS**

SHEET NUMBER:
1.5

Allied Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract
 Date Revised: 3-13-2017

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 RevivalRidge_Survey2015-07-17.dtm
 Proposed Playground_Pro1.dtm
 Proposed

| Grp | Material | Item | From Surface Model | To Surface Model | area (sq ft) | depth (ft) | Unfac-tored volume (cu ft) | Unfac-tored volume (cu yd) | Expans-ion Factor (%) | Factored (Uncom-pacted) Volume (cu yd) |
|-----------------------|---|--|--------------------|------------------|--------------|------------|----------------------------|----------------------------|-----------------------|--|
| Grass to Concrete | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 54 | 0.50 | 27 | 1.0 | 0% | 1.0 |
| Grass to Concrete | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-11in | 54 | varies | 11 | 0.4 | 0% | 0.4 |
| Grass to Concrete | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-11in | 54 | 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 | 54 | -0.50 | -27 | -1.0 | 0% | -1.0 |
| Grass to Concrete | Concrete Place | Place 5in concrete | n/a | n/a | 40 | -0.42 | -17 | -0.6 | 0% | -0.6 |
| Grass to Concrete | Topsoil Place | Place 3in topsoil over 6in wide gravel edge | n/a | n/a | 14 | -0.42 | -6 | -0.2 | 0% | -0.2 |
| Grass to Grass | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 3019 | 0.50 | 1510 | 55.9 | 0% | 55.9 |
| Grass to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-6in | 3019 | varies | 0 | 0.0 | 0% | 0.0 |
| Grass to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-6in | 3019 | varies | -3968 | -147.0 | 0% | -147.0 |
| Grass to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 3019 | -0.50 | -1510 | -55.9 | 0% | -55.9 |
| Grass to Peagravel | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 213 | 0.50 | 106 | 3.9 | 0% | 3.9 |
| Grass to Peagravel | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 213 | varies | 0 | 0.0 | 0% | 0.0 |
| Grass to Peagravel | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 213 | varies | -181 | -6.7 | 0% | -6.7 |
| Grass to Peagravel | Peagravel Place | Place 12in peagravel surface | n/a | n/a | 213 | -1.00 | -213 | -7.9 | 0% | -7.9 |
| Grass to Play Surface | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 2332 | 0.50 | 1166 | 43.2 | 0% | 43.2 |
| Grass to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 2332 | varies | 1 | 0.0 | 0% | 0.0 |
| Grass to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 2332 | varies | -3364 | -124.6 | 0% | -124.6 |
| Grass to Play Surface | Play Surface Place | Place 12in wood mulch play surface | n/a | n/a | 2332 | -1.00 | -2332 | -86.4 | 0% | -86.4 |
| Grass to Timbers | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 83 | 0.50 | 42 | 1.5 | 0% | 1.5 |
| Grass to Timbers | Subsoil Place | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 83 | varies | 0 | 0.0 | 0% | 0.0 |
| Grass to Timbers | Subsoil Excavate | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 83 | varies | -125 | -4.6 | 0% | -4.6 |
| Grass to Timbers | Border Timbers Place (placeholder volume) | Place playground border timbers (placeholder volume to balance volume comps) | n/a | n/a | 83 | -1.00 | -83 | -3.1 | 0% | -3.1 |

Allied Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract 7930
 Date Revised: 3/13/2017

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) |
|---|-----------------------------------|
| Border Timbers Place (placeholder volume) | -3.1 |
| Gravel (for Pavement) Place | -1.0 |
| Play Surface Place | -86.4 |
| Subsoil Excavate | -4.2 |
| Subsoil Place | -278.3 |
| Topsoil Excavate | 105.6 |
| Topsoil Place | -56.1 |
| Concrete Place | -0.6 |
| Peagravel Place | -7.9 |
| Grand Total | -332.0 |

Reorganized into bid table items

| Bid Item | Quantity | Units | Relation to Table Above |
|---|----------|-------|--|
| 20101 Excavation Cut | 101 | CY | = Subsoil Excavate + Topsoil Excavate+Asphalt Excavate |
| 20201 Fill | 282 | CY | = Subsoil Excavate + Subsoil Place |
| 20221 Topsoil | 336 | SY | = (Topsoil Place)/-.167 |
| 90004 Playground Surfacing - Wood Mulch | 95 | CY | = Play Surface Place * -1.10 |
| 90006 Playground Surfacing - Pea Gravel | 8 | CY | =Peagravel Place |

NOTE:
 1. SITE IS HEAVILY WOODED, THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO ENSURE EXISTING TREES ARE PROTECTED. TREE PROTECTION (NO ROOT CUT BID ITEMS) HAVE BEEN ADDED TO THIS CONTRACT. THE CONTRACTOR SHALL NOT DRIVE OUTSIDE OF CONSTRUCTION FENCE LIMITS.



EXISTING PLAY EQUIPMENT SHALL BE REMOVED BY CITY WITH THE EXCEPTION OF EXISTING LANDSCAPE STRUCTURES ARCH TIRE SWING (MODEL #120891) AND LANDSCAPE STRUCTURES CURVED BALANCE BEAM (MODEL#100041), WHICH SHALL BE REMOVED AND RELOCATED BY CONTRACTOR AS INDICATED ON SHEET 2.3. EXISTING PEA GRAVEL SURFACING SHALL BE REMOVED BY CONTRACTOR.

PROPOSED STAGING AREA WITHIN CONSTRUCTION FENCE LIMITS

PROPOSED CONSTRUCTION FENCE, NO CONSTRUCTION OUTSIDE OF FENCE LIMITS

CONSTRUCTION ACCESS FROM PARK'S ASPHALT PATH (ENTRANCE AT ELDER PLACE APPROX. 400' TO SOUTH) PROTECT EXISTING SURFACES (LAWN, CURB, SIDEWALK, PAVEMENT, ETC.) AND UTILITIES. REPAIR OF SURFACES AND UTILITES IS INCIDENTAL TO THIS CONTRACT.

BORDNER DR

S ROSA RD

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 Department of Public Works
PARKS DIVISION

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 210 Martin Luther King, Jr. Blvd.

Madison, WI 53703

play
**MADISON
 PARKS**

Graphical Scale

0 40 ft



PROJECT:

**BORDNER PARK
 PLAYGROUND**

**BORDNER PARK
 5610 ELDER PLACE
 MADISON, WI 53705**

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


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| Drawn by: KK | 04-14-2017 |
| Approved by: | xx-xx-xxxx |

PUBLIC WORKS PROJECT #:
7930

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

SHEET NUMBER:
2.1

LEGEND

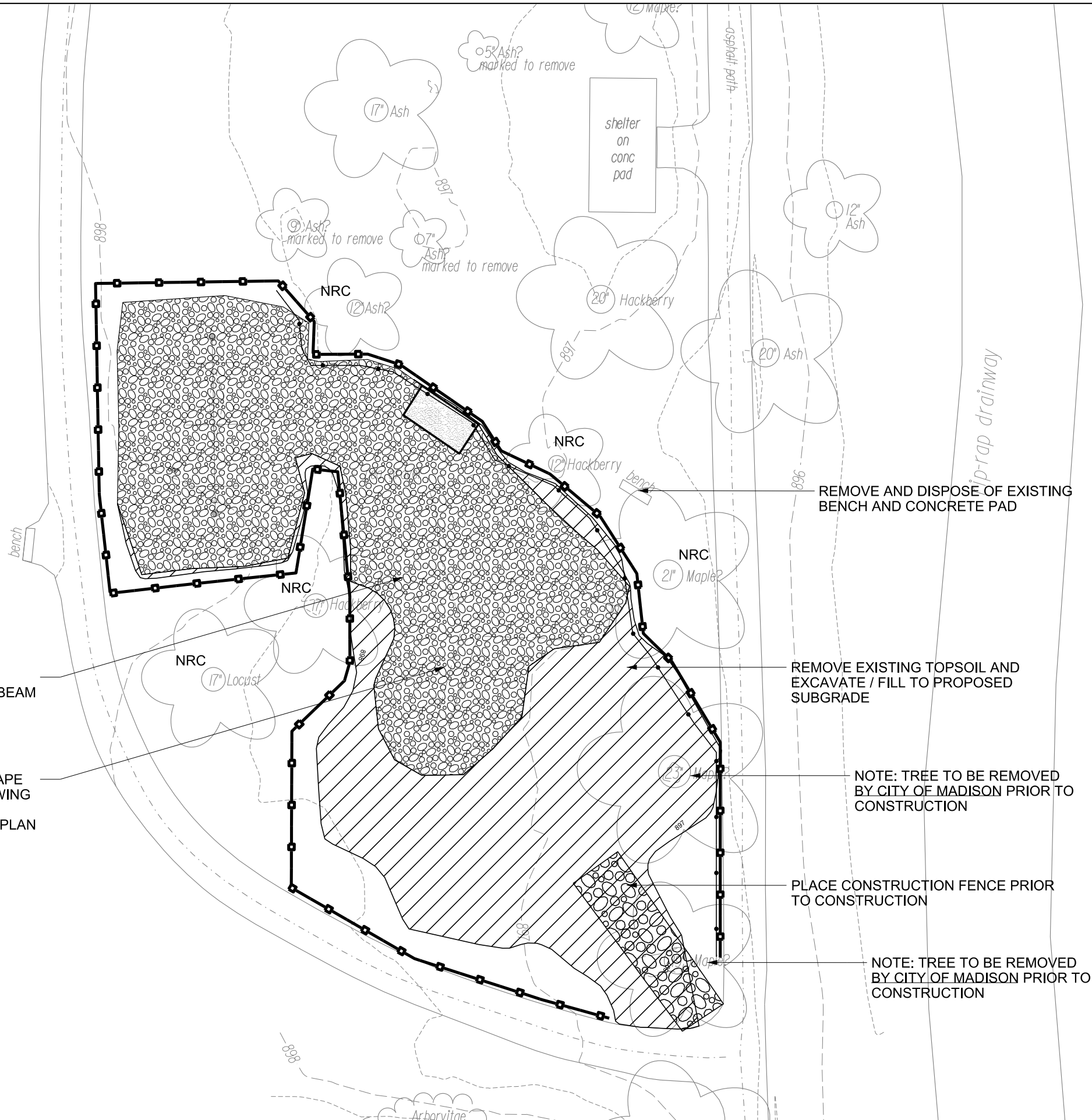
-  REMOVE EX. LAWN
-  REMOVE EX. PEA GRAVEL
-  REMOVE EX. SAND
-  PRO. CONSTRUCTION ENTRANCE
-  PRO. CONSTRUCTION FENCE
-  PRO. SILT SOCK
-  NRC
NO ROOT CUT PER BID ITEM 10803
-  EX. CONTOUR (INDEX)
-  EX. CONTOUR (INTER.)
-  EX. APPROX. PARK BOUNDARY

NOTES

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 EXISTING LANDSCAPE STRUCTURES CURVED BALANCE BEAM (MODEL #100041) FOR RE-INSTALLATION PER SITE PLAN SHEET 2.3

REMOVE EXISTING LANDSCAPE STRUCTURES ARCH TIRE SWING (MODEL #120891) FOR RE-INSTALLATION PER SITE PLAN SHEET 2.3



REMOVE AND DISPOSE OF EXISTING BENCH AND CONCRETE PAD

REMOVE EXISTING TOPSOIL AND EXCAVATE / FILL TO PROPOSED SUBGRADE

NOTE: TREE TO BE REMOVED BY CITY OF MADISON PRIOR TO CONSTRUCTION

PLACE CONSTRUCTION FENCE PRIOR TO CONSTRUCTION

NOTE: TREE TO BE REMOVED BY CITY OF MADISON PRIOR TO CONSTRUCTION

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Department of Public Works
PARKS DIVISION

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play
MADISON PARKS

Graphical Scale

0 20 ft



PROJECT:

**BORDNER PARK
PLAYGROUND**

**BORDNER PARK
5610 ELDER PLACE
MADISON, WI 53705**

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PUBLIC WORKS PROJECT #:
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SHEET TITLE:
**DEMOLITION AND
PROTECTION PLAN**

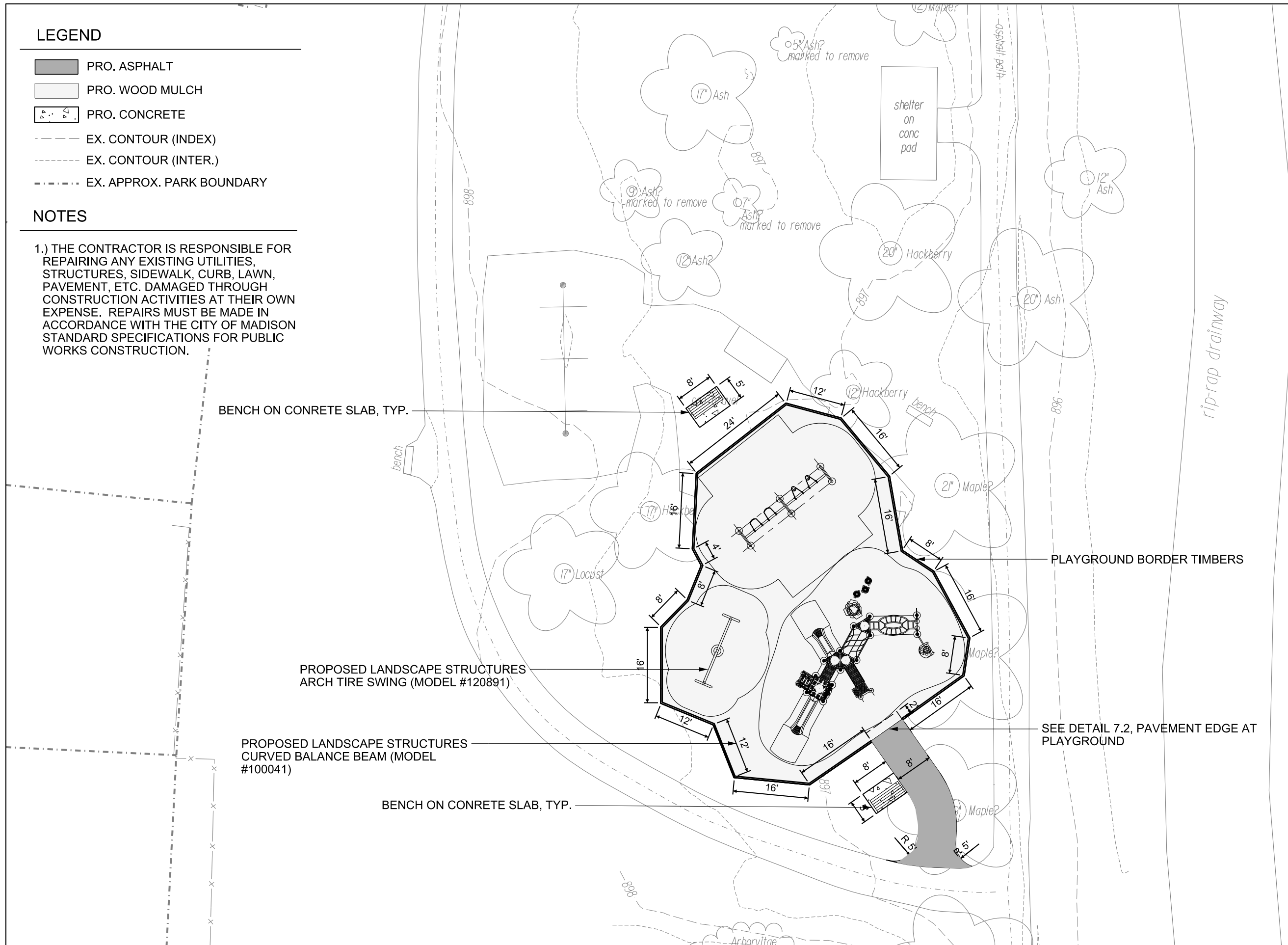
SHEET NUMBER:
2.2

LEGEND

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

NOTES

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MADISON
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PROJECT:

**BORDNER PARK
 PLAYGROUND**

**BORDNER PARK
 5610 ELDER PLACE
 MADISON, WI 53705**

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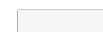




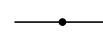
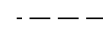
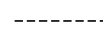
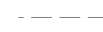
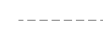

| ITEM | DATE |
|--------------|------------|
| Drawn by: KK | 04-13-2017 |
| Approved by: | xx-xx-xxxx |
| | |
| | |
| | |
| | |

PUBLIC WORKS PROJECT #:
7930

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
2.3

LEGEND

-  PRO. SPOT EL.
-  PRO. ASPHALT
-  PRO. WOOD MULCH
-  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 OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 7.1.
- 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: 897.67
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 897.50
 PLAYGROUND SUBGRADE ELEVATION: 896.50
 ASPHALT AT PLAYGROUND ELEVATION: 897.50



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 20 ft



PROJECT:

**BORDNER PARK
 PLAYGROUND**

**BORDNER PARK
 5610 ELDER PLACE
 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 |
|--------------|------------|
| Drawn by: KK | 04-14-2017 |
| Approved by: | xx-xx-xxxx |
| | |
| | |
| | |

PUBLIC WORKS PROJECT #:
7930

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

SHEET NUMBER:
2.4

Bordner Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract
Date Revised: 3-9-2017

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: Bordner_Survey2016-08-15.dtm
Proposed: Pro1.dtm
Proposed:

| 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 Asphalt | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 354 | 0.50 | 177 | 6.6 | 0% | 6.6 |
| 1.2 | Grass to Asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 354 | varies | 106 | 3.9 | 0% | 3.9 |
| 1.3 | Grass to Asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 354 | varies | -13 | -0.5 | 0% | -0.5 |
| 1.4 | Grass to Asphalt | Gravel (for Pavement) Place | Place 6in gravel base out to 6in from pavement edge | n/a | n/a | 354 | -0.75 | -266 | -9.8 | 0% | -9.8 |
| 1.5 | Grass to Asphalt | Asphalt Place | Place 3in asphalt | n/a | n/a | 315 | -0.25 | -79 | -2.9 | 0% | -2.9 |
| 1.6 | Grass to Asphalt | Topsoil Place | Place 3in topsoil over 6in wide gravel edge | n/a | n/a | 39 | -0.25 | -10 | -0.4 | 0% | -0.4 |
| 2.1 | Grass to Grass | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 908 | 0.50 | 454 | 16.8 | 0% | 16.8 |
| 2.2 | Grass to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-6in | 908 | varies | 1 | 0.0 | 0% | 0.0 |
| 2.3 | Grass to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-6in | 908 | varies | -240 | -8.9 | 0% | -8.9 |
| 2.4 | Grass to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 908 | -0.50 | -454 | -16.8 | 0% | -16.8 |
| 3.1 | Grass to Concrete | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 48 | 0.50 | 24 | 0.9 | 0% | 0.9 |
| 3.2 | Grass to Concrete | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-11in | 48 | varies | 1 | 0.0 | 0% | 0.0 |
| 3.3 | Grass to Concrete | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-11in | 48 | varies | -2 | -0.1 | 0% | -0.1 |
| 3.4 | Grass to Concrete | Gravel (for Pavement) Place | Place 6in gravel base out to 6in from pavement edge | n/a | n/a | 48 | -0.50 | -24 | -0.9 | 0% | -0.9 |
| 3.5 | Grass to Concrete | Concrete Place | Place 5in concrete | n/a | n/a | 35 | -0.42 | -15 | -0.5 | 0% | -0.5 |
| 3.6 | Grass to Concrete | Topsoil Place | Place 3in topsoil over 6in wide gravel edge | n/a | n/a | 13 | -0.42 | -5 | -0.2 | 0% | -0.2 |
| 4.1 | Grass to Play Surface | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 1949 | 0.50 | 974 | 36.1 | 0% | 36.1 |
| 4.2 | Grass to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 1949 | varies | 184 | 6.8 | 0% | 6.8 |
| 4.3 | Grass to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 1949 | varies | -135 | -5.0 | 0% | -5.0 |
| 4.4 | Grass to Play Surface | Play Surface Place | Place 12in wood mulch play surface | n/a | n/a | 1949 | -1.00 | -1949 | -72.2 | 0% | -72.2 |
| 5.1 | Grass to Timbers | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 96 | 0.50 | 48 | 1.8 | 0% | 1.8 |
| 5.2 | Grass to Timbers | Subsoil Place | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 96 | varies | 4 | 0.2 | 0% | 0.2 |
| 5.3 | Grass to Timbers | Subsoil Excavate | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 96 | varies | -19 | -0.7 | 0% | -0.7 |
| 5.4 | Grass to Timbers | Border Timbers Place (placeholder volume) | Place playground border timbers (placeholder volume to balance volume comps) | n/a | n/a | 96 | -1.00 | -96 | -3.6 | 0% | -3.6 |
| 6.1 | Play Surface to Concrete | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 54 | 1.42 | 77 | 2.8 | 0% | 2.8 |
| 6.2 | Play Surface to Concrete | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-11in | 54 | varies | 0 | 0.0 | 0% | 0.0 |
| 6.3 | Play Surface to Concrete | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-11in | 54 | varies | -5 | -0.2 | 0% | -0.2 |
| 6.4 | Play Surface to Concrete | Gravel (for Pavement) Place | Place 6in gravel base out to 6in from pavement edge | n/a | n/a | 54 | -0.50 | -27 | -1.0 | 0% | -1.0 |
| 6.5 | Play Surface to Concrete | Concrete Place | Place 5in concrete | n/a | n/a | 40 | -0.42 | -17 | -0.6 | 0% | -0.6 |
| 6.6 | Play Surface to Concrete | Topsoil Place | Place 3in topsoil over 6in wide gravel edge | n/a | n/a | 14 | -0.42 | -6 | -0.2 | 0% | -0.2 |
| 7.1 | Play Surface to Grass | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 2238 | 1.42 | 3170 | 117.4 | 0% | 117.4 |
| 7.2 | Play Surface to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-6in | 2238 | varies | 0 | 0.0 | 0% | 0.0 |
| 7.3 | Play Surface to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-6in | 2238 | varies | -2342 | -86.7 | 0% | -86.7 |
| 7.4 | Play Surface to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 2238 | -0.50 | -1119 | -41.4 | 0% | -41.4 |
| 8.1 | Play Surface to Play Surface | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 1476 | 1.42 | 2091 | 77.5 | 0% | 77.5 |
| 8.2 | Play Surface to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 1476 | varies | 0 | 0.0 | 0% | 0.0 |
| 8.3 | Play Surface to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 1476 | varies | -1330 | -49.3 | 0% | -49.3 |
| 8.4 | Play Surface to Play Surface | Play Surface Place | Place 12in rubber mulch play surface | n/a | n/a | 1476 | -1.00 | -1476 | -54.7 | 0% | -54.7 |
| 9.1 | Play Surface to Timbers | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 21 | 1.42 | 30 | 1.1 | 0% | 1.1 |
| 9.2 | Play Surface to Timbers | Subsoil Place | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 21 | varies | 0 | 0.0 | 0% | 0.0 |
| 9.3 | Play Surface to Timbers | Subsoil Excavate | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 21 | varies | -23 | -0.8 | 0% | -0.8 |
| 9.4 | Play Surface to Timbers | Border Timbers Place (placeholder volume) | Place playground border timbers (placeholder volume to balance volume comps) | n/a | n/a | 21 | -1.00 | -21 | -0.8 | 0% | -0.8 |
| 10.1 | Sand to Grass | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 76 | 1.42 | 108 | 4.0 | 0% | 4.0 |
| 10.2 | Sand to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-6in | 76 | varies | 0 | 0.0 | 0% | 0.0 |
| 10.3 | Sand to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-6in | 76 | varies | -77 | -2.9 | 0% | -2.9 |
| 10.4 | Sand to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 76 | -0.50 | -38 | -1.4 | 0% | -1.4 |

Bordner Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract 7930
Date Revised: 3/9/2017

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 | -2.9 |
| Border Timbers Place (placeholder volume) | -4.3 |
| Gravel (for Pavement) Place | -11.7 |
| Play Surface Excavate | 198.8 |
| Play Surface Place | -126.9 |
| Subsoil Excavate | 9.3 |
| Subsoil Place | -150.5 |
| Topsoil Excavate | 62.1 |
| Topsoil Place | -59.0 |
| Concrete Place | -1.2 |
| Grand Total | -86.3 |

Reorganized into bid table items

| Bid Item | Quantity | Units | Relation to Table Above |
|---|----------|-------|--|
| 20101 Excavation Cut | 71 | CY | = Subsoil Excavate + Topsoil Excavate+Asphalt Excavate |
| 20103 Excavation Cut - Pea Gravel | 199 | CY | = Play Surface Excavate |
| 20201 Fill | 141 | CY | = Subsoil Excavate + Subsoil Place |
| 20221 Topsoil | 354 | SY | = (Topsoil Place)/-.167 |
| 40102 Crushed Aggregate Base Course Gradation No. 2 | 23 | tons | = (Gravel for Pavement Place) * -2 ton/cubic yard |
| 40201 3" Depth HMA Pavement Type E-0.3 & 3 | 6.3 | tons | = Asphalt Place * -2.16 ton/cubic yard |
| 90004 Playground Surfacing - Wood Mulch | 140 | CY | = Play Surface Place * -1.10 |

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:

BORDNER PARK PLAYGROUND

**BORDNER PARK
5610 ELDER PLACE
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
Drawn by: KK 04-14-2017
Approved by: xx-xx-xxxx

PUBLIC WORKS PROJECT #:
7930

SHEET TITLE:
DESIGN COMPUTATIONS

SHEET NUMBER:
2.5



W WASHINGTON AVE

CONSTRUCTION ACCESS FROM PARK'S ASPHALT PATH (ENTRANCE AT W WASHINGTON AVE) PROTECT EXISTING SURFACES (LAWN, CURB, SIDEWALK, PAVEMENT, ETC.) AND UTILITIES. REPAIR OF SURFACES AND UTILITIES IS INCIDENTAL TO THIS CONTRACT.

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

PROPOSED STAGING AREA WITHIN CONSTRUCTION FENCE LIMITS

PROPOSED CONSTRUCTION FENCE, NO CONSTRUCTION OUTSIDE OF FENCE LIMITS

BRITTINGHAM PARK

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

Graphical Scale

0 40 ft



PROJECT:

2017
PLAYGROUNDS -
GROUP 2

BRITTINGHAM PARK
829 W WASHINGTON AVE
MADISON, WI 53715

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






| ITEM | DATE |
|--------------|------------|
| Drawn by: KK | 04-14-2017 |
| Approved by: | xx-xx-xxxx |
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PUBLIC WORKS PROJECT #:
7930

SHEET TITLE:
PROJECT LOCATION
AND SITE ACCESS

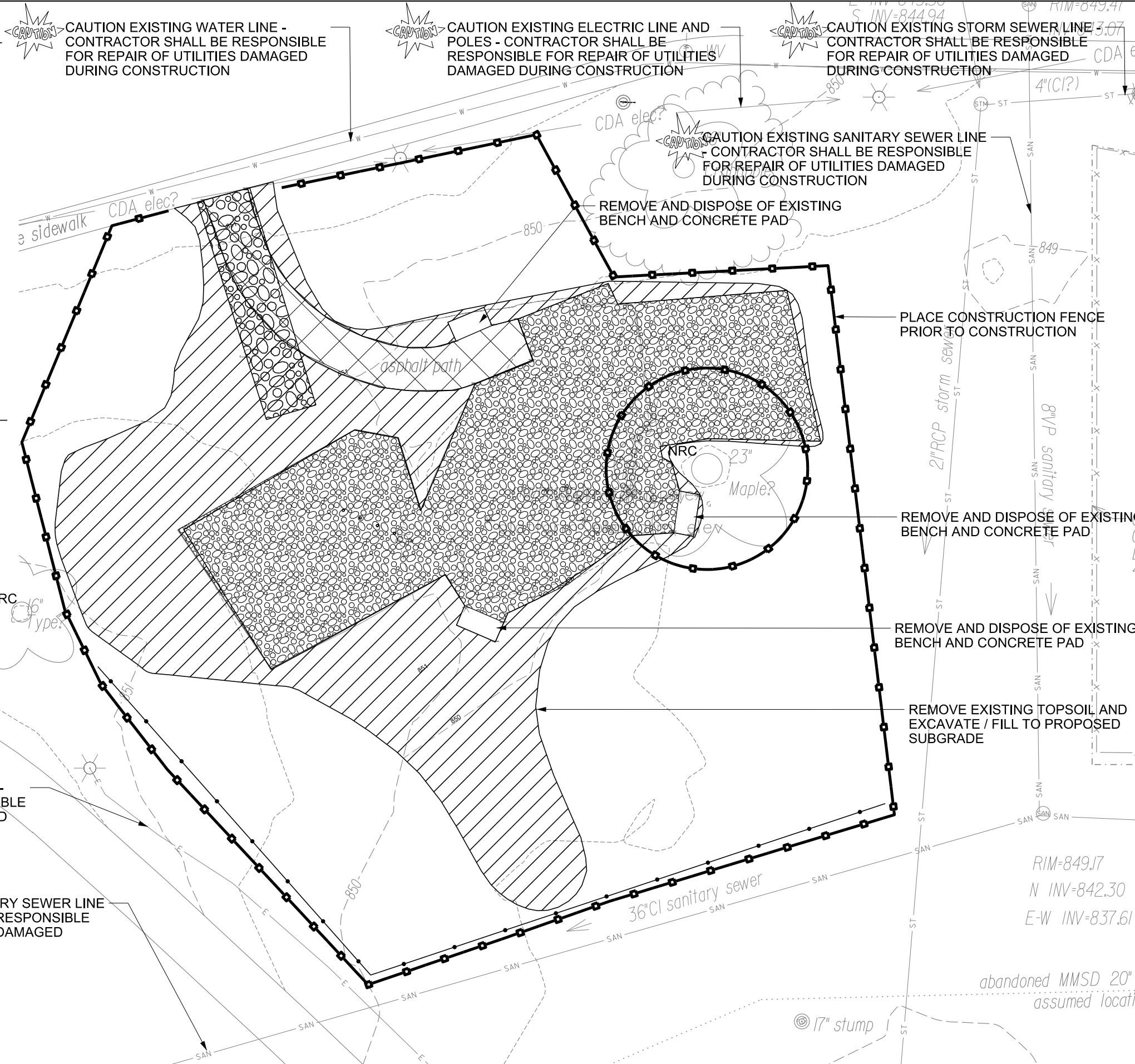
SHEET NUMBER:
3.1

LEGEND

-  REMOVE EX. LAWN
-  REMOVE EX. PEA GRAVEL
-  REMOVE EX. ASPHALT
-  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

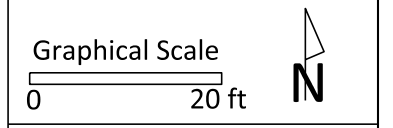
NOTES

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

play
MADISON
PARKS



PROJECT:
2017
PLAYGROUNDS -
GROUP 2

BRITTINGHAM PARK
829 W WASHINGTON AVE
MADISON, WI 53715

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| ITEM | DATE |
|--------------|------------|
| Drawn by: KK | 04-14-2017 |
| Approved by: | xx-xx-xxxx |
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PUBLIC WORKS PROJECT #:
7930

SHEET TITLE:
DEMOLITION AND
PROTECTION PLAN

SHEET NUMBER:
3.2

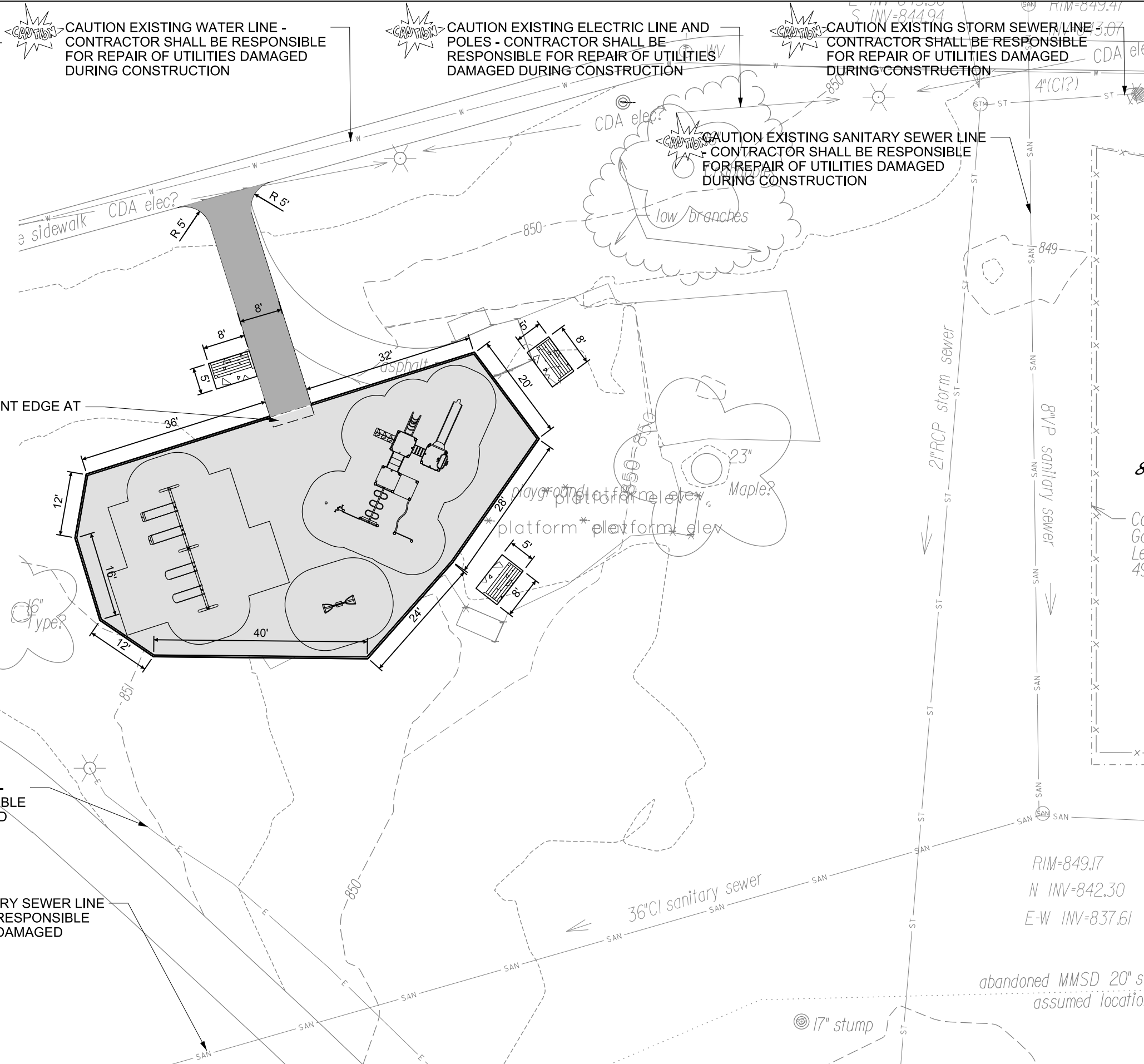
LEGEND

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

NOTES

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SEE DETAIL 7.2, PAVEMENT EDGE AT PLAYGROUND



CAUTION CAUTION EXISTING WATER LINE - CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION

CAUTION CAUTION EXISTING ELECTRIC LINE AND POLES - CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION

CAUTION CAUTION EXISTING STORM SEWER LINE - CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION

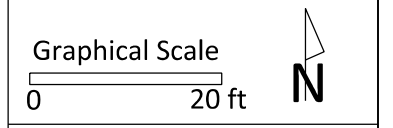
CAUTION CAUTION EXISTING SANITARY SEWER LINE - CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION

CAUTION CAUTION EXISTING ELECTRIC LINE - CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION

CAUTION CAUTION EXISTING SANITARY SEWER LINE - CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION

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

play
MADISON
PARKS



PROJECT:
 2017
 PLAYGROUNDS -
 GROUP 2

BRITTINGHAM PARK
 829 W WASHINGTON AVE
 MADISON, WI 53715

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 | 04-14-2017 |
| Approved by: | xx-xx-xxxx |
| | |
| | |

PUBLIC WORKS PROJECT #:
7930

SHEET TITLE:
SITE PLAN

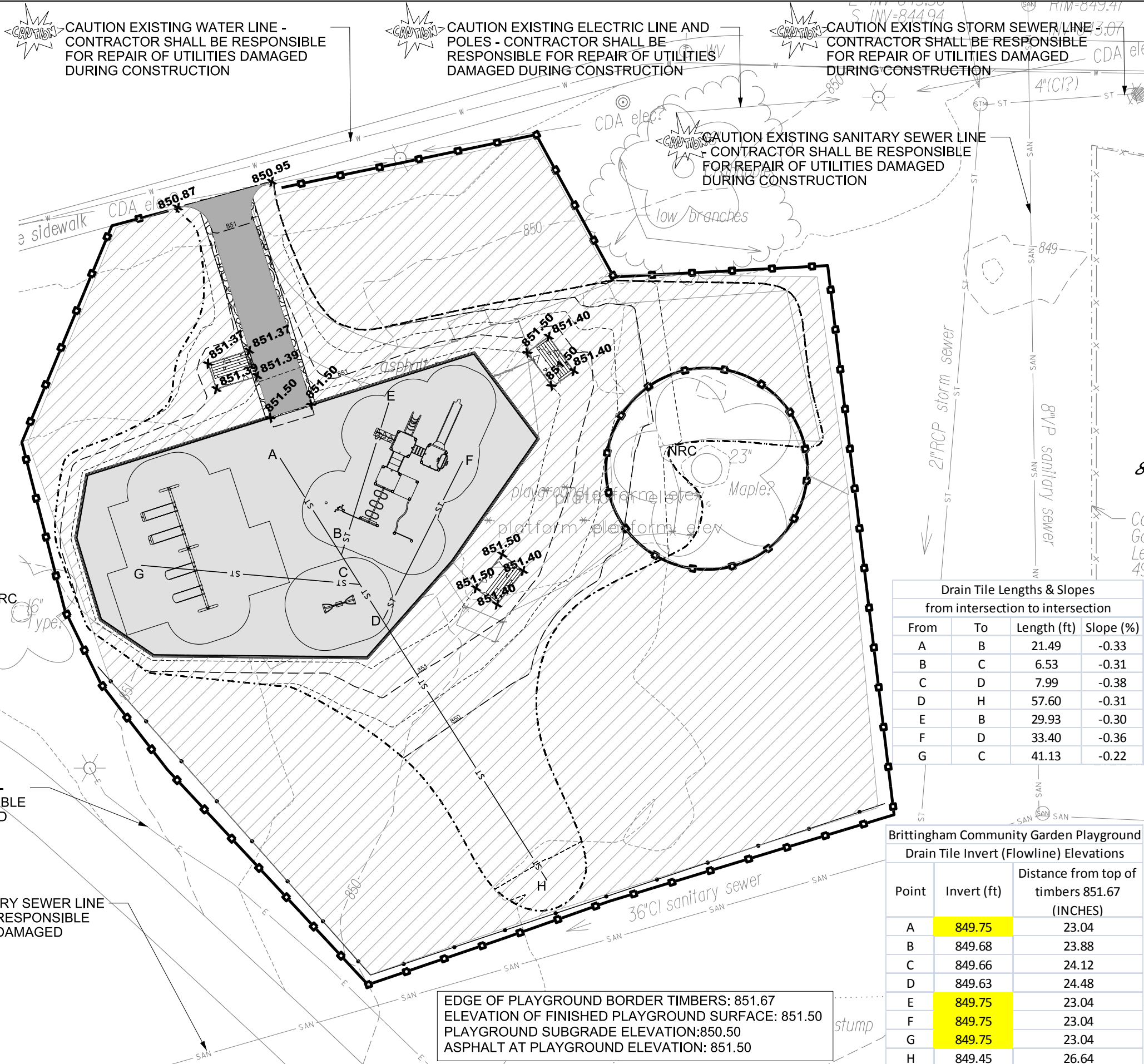
SHEET NUMBER:
3.3

LEGEND

- XXX.XX PRO. SPOT EL.
- PRO. ASPHALT
- ▨ PRO. RUBBER MULCH
- ▩ 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 OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 7.1.
- 2.) PLAYGROUND EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE ELEVATIONS RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS.



CAUTION CAUTION EXISTING WATER LINE - CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION

CAUTION CAUTION EXISTING ELECTRIC LINE AND POLES - CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION

CAUTION CAUTION EXISTING STORM SEWER LINE - CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION

CAUTION CAUTION EXISTING SANITARY SEWER LINE - CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION

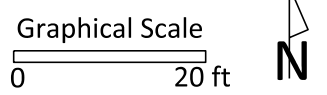
CAUTION CAUTION EXISTING ELECTRIC LINE - CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION

CAUTION CAUTION EXISTING SANITARY SEWER LINE - CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION

EDGE OF PLAYGROUND BORDER TIMBERS: 851.67
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 851.50
 PLAYGROUND SUBGRADE ELEVATION: 850.50
 ASPHALT AT PLAYGROUND ELEVATION: 851.50

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:
 2017
PLAYGROUNDS - GROUP 2

BRITTINGHAM PARK
 829 W WASHINGTON AVE
 MADISON, WI 53715

| Drain Tile Lengths & Slopes | | | |
|-----------------------------------|----|-------------|-----------|
| from intersection to intersection | | | |
| From | To | Length (ft) | Slope (%) |
| A | B | 21.49 | -0.33 |
| B | C | 6.53 | -0.31 |
| C | D | 7.99 | -0.38 |
| D | H | 57.60 | -0.31 |
| E | B | 29.93 | -0.30 |
| F | D | 33.40 | -0.36 |
| G | C | 41.13 | -0.22 |

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 | 04-14-2017 |
| Approved by: | xx-xx-xxxx |

| Brittingham Community Garden Playground | | |
|---|-------------|--|
| Drain Tile Invert (Flowline) Elevations | | |
| Point | Invert (ft) | Distance from top of timbers 851.67 (INCHES) |
| A | 849.75 | 23.04 |
| B | 849.68 | 23.88 |
| C | 849.66 | 24.12 |
| D | 849.63 | 24.48 |
| E | 849.75 | 23.04 |
| F | 849.75 | 23.04 |
| G | 849.75 | 23.04 |
| H | 849.45 | 26.64 |

PUBLIC WORKS PROJECT #:
7930

SHEET TITLE:
GRADING AND EROSION CONTROL PLAN

SHEET NUMBER:
3.4



PROJECT:

**2017
 PLAYGROUNDS -
 GROUP 2**

**BRITTINGHAM PARK
 829 W WASHINGTON AVE
 MADISON, WI 53715**

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 04-14-2017

Approved by: xx-xx-xxxx

PUBLIC WORKS PROJECT #:
7930

SHEET TITLE:
**DESIGN
 COMPUTATIONS**

SHEET NUMBER:
3.5

Brittingham Park - Community Garden Playground - Earthwork Quantities

City of Madison, WI Public Works Contract
 Date Revised: 3-8-2017

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 Brit_Survey2016-07-18_GardenComb.dtm
 Proposed Pro1.dtm
 Proposed

| 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 (%) |
|------|-------------------------|---|--|--------------------|------------------|--------------|------------|---------------------------|---------------------------|----------------------|
| 1.1 | Asphalt to Asphalt | Asphalt Excavate | Remove estimated 3in asphalt | n/a | n/a | 198 | 0.25 | 49 | 1.8 | 0% |
| 1.2 | Asphalt to Asphalt | Gravel (Clean) Excavate | Remove estimated 4in clean gravel base | n/a | n/a | 198 | 0.33 | 66 | 2.4 | 0% |
| 1.3 | Asphalt to Asphalt | Gravel (Dirty) Excavate | Remove estimated 2in mixed gravel/subsoil | n/a | n/a | 198 | 0.17 | 33 | 1.2 | 0% |
| 1.4 | Asphalt to Asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-9in | Pro-12in | 198 | varies | 3 | 0.1 | 0% |
| 1.5 | Asphalt to Asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-9in | Pro-12in | 198 | varies | -82 | -3.0 | 0% |
| 1.6 | Asphalt to Asphalt | Gravel (for Pavement) Place | Place 9in gravel base out to 6in from pavement edge | n/a | n/a | 198 | -0.75 | -148 | -5.5 | 0% |
| 1.7 | Asphalt to Asphalt | Asphalt Place | Place 3in asphalt | n/a | n/a | 162 | -0.25 | -40 | -1.5 | 0% |
| 1.8 | Asphalt to Asphalt | Topsoil Place | Place 3in topsoil over 6in wide gravel edge | n/a | n/a | 36 | -0.25 | -9 | -0.3 | 0% |
| 2.1 | Asphalt to Concrete | Asphalt Excavate | Remove estimated 3in asphalt | n/a | n/a | 2 | 0.25 | 0 | 0.0 | 0% |
| 2.2 | Asphalt to Concrete | Gravel (Clean) Excavate | Remove estimated 4in clean gravel base | n/a | n/a | 2 | 0.33 | 1 | 0.0 | 0% |
| 2.3 | Asphalt to Concrete | Gravel (Dirty) Excavate | Remove estimated 2in mixed gravel/subsoil | n/a | n/a | 2 | 0.17 | 0 | 0.0 | 0% |
| 2.4 | Asphalt to Concrete | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-9in | Pro-12in | 2 | varies | 0 | 0.0 | 0% |
| 2.5 | Asphalt to Concrete | Subsoil Place | Fill subsoil to proposed subgrade | Ex-9in | Pro-12in | 2 | varies | -2 | -0.1 | 0% |
| 2.6 | Asphalt to Concrete | Gravel (for Pavement) Place | Place 9in gravel base out to 6in from pavement edge | n/a | n/a | 2 | -0.75 | -1 | -0.1 | 0% |
| 2.7 | Asphalt to Concrete | Concrete Place | Place 5in concrete | n/a | n/a | 1 | -0.42 | 0 | 0.0 | 0% |
| 2.8 | Asphalt to Concrete | Topsoil Place | Place 3in topsoil over 6in wide gravel edge | n/a | n/a | 1 | -0.42 | 0 | 0.0 | 0% |
| 3.1 | Asphalt to Grass | Asphalt Excavate | Remove estimated 3in asphalt | n/a | n/a | 326 | 0.25 | 82 | 3.0 | 0% |
| 3.2 | Asphalt to Grass | Gravel (Clean) Excavate | Remove estimated 4in clean gravel base | n/a | n/a | 326 | 0.33 | 109 | 4.0 | 0% |
| 3.3 | Asphalt to Grass | Gravel (Dirty) Excavate | Remove estimated 2in mixed gravel/subsoil | n/a | n/a | 326 | 0.17 | 54 | 2.0 | 0% |
| 3.4 | Asphalt to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-9in | Pro-6in | 326 | varies | 0 | 0.0 | 0% |
| 3.5 | Asphalt to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-9in | Pro-6in | 326 | varies | -432 | -16.0 | 0% |
| 3.6 | Asphalt to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 326 | -0.50 | -163 | -6.0 | 0% |
| 4.1 | Asphalt to Play Surface | Asphalt Excavate | Remove estimated 3in asphalt | n/a | n/a | 73 | 0.25 | 18 | 0.7 | 0% |
| 4.2 | Asphalt to Play Surface | Gravel (Clean) Excavate | Remove estimated 4in clean gravel base | n/a | n/a | 73 | 0.33 | 24 | 0.9 | 0% |
| 4.3 | Asphalt to Play Surface | Gravel (Dirty) Excavate | Remove estimated 2in mixed gravel/subsoil | n/a | n/a | 73 | 0.17 | 12 | 0.5 | 0% |
| 4.4 | Asphalt to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-9in | Pro-12in | 73 | varies | 0 | 0.0 | 0% |
| 4.5 | Asphalt to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-9in | Pro-12in | 73 | varies | -109 | -4.0 | 0% |
| 4.6 | Asphalt to Play Surface | Play Surface Place | Place 12in rubber mulch play surface | n/a | n/a | 73 | -1.00 | -73 | -2.7 | 0% |
| 5.1 | Asphalt to Timbers | Asphalt Excavate | Remove estimated 3in asphalt | n/a | n/a | 9 | 0.25 | 2 | 0.1 | 0% |
| 5.2 | Asphalt to Timbers | Gravel (Clean) Excavate | Remove estimated 4in clean gravel base | n/a | n/a | 9 | 0.33 | 3 | 0.1 | 0% |
| 5.3 | Asphalt to Timbers | Gravel (Dirty) Excavate | Remove estimated 2in mixed gravel/subsoil | n/a | n/a | 9 | 0.17 | 1 | 0.1 | 0% |
| 5.4 | Asphalt to Timbers | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-9in | Pro-12in | 9 | varies | 0 | 0.0 | 0% |
| 5.5 | Asphalt to Timbers | Subsoil Place | Fill subsoil to proposed subgrade | Ex-9in | Pro-12in | 9 | varies | -14 | -0.5 | 0% |
| 5.6 | Asphalt to Timbers | Border Timbers Place (placeholder volume) | Place playground border timbers (placeholder volume to balance volume comps) | n/a | n/a | 9 | -1.00 | -9 | -0.3 | 0% |
| 6.1 | Concrete to Grass | Concrete Excavate | Remove 5in concrete | n/a | n/a | 89 | 0.42 | 37 | 1.4 | 0% |
| 6.2 | Concrete to Grass | Gravel (Clean) Excavate | Remove estimated 4in clean gravel base | n/a | n/a | 89 | 0.33 | 30 | 1.1 | 0% |
| 6.3 | Concrete to Grass | Gravel (Dirty) Excavate | Remove estimated 2in mixed gravel/subsoil | n/a | n/a | 89 | 0.17 | 15 | 0.6 | 0% |
| 6.4 | Concrete to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-11in | Pro-6in | 89 | varies | 0 | 0.0 | 0% |
| 6.5 | Concrete to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-11in | Pro-6in | 89 | varies | -108 | -4.0 | 0% |
| 6.6 | Concrete to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 89 | -0.50 | -45 | -1.7 | 0% |
| 7.1 | Grass to Asphalt | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 190 | 0.50 | 95 | 3.5 | 0% |
| 7.2 | Grass to Asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 190 | varies | 8 | 0.3 | 0% |
| 7.3 | Grass to Asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 190 | varies | -116 | -4.3 | 0% |
| 7.4 | Grass to Asphalt | Gravel (for Pavement) Place | Place 9in gravel base out to 6in from pavement edge | n/a | n/a | 190 | -0.75 | -143 | -5.3 | 0% |
| 7.5 | Grass to Asphalt | Asphalt Place | Place 3in asphalt | n/a | n/a | 134 | -0.25 | -34 | -1.2 | 0% |
| 7.6 | Grass to Asphalt | Topsoil Place | Place 3in topsoil over 6in wide gravel edge | n/a | n/a | 56 | -0.25 | -14 | -0.5 | 0% |

| | | | | | | | | | | | |
|------|------------------------------|---|--|---------|----------|-------|--------|-------|--------|----|--------|
| 8.1 | Grass to Grass | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 12173 | 0.50 | 6087 | 225.4 | 0% | 225.4 |
| 8.2 | Grass to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-6in | 12173 | varies | 3 | 0.1 | 0% | 0.1 |
| 8.3 | Grass to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-6in | 12173 | varies | -9758 | -361.4 | 0% | -361.4 |
| 8.4 | Grass to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 12173 | -0.50 | -6087 | -225.4 | 0% | -225.4 |
| 9.1 | Grass to Concrete | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 54 | 0.50 | 27 | 1.0 | 0% | 1.0 |
| 9.2 | Grass to Concrete | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-11in | 54 | varies | 0 | 0.0 | 0% | 0.0 |
| 9.3 | Grass to Concrete | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-11in | 54 | varies | -45 | -1.7 | 0% | -1.7 |
| 9.4 | Grass to Concrete | Gravel (for Pavement) Place | Place 6in gravel base out to 6in from pavement edge | n/a | n/a | 54 | -0.50 | -27 | -1.0 | 0% | -1.0 |
| 9.5 | Grass to Concrete | Concrete Place | Place 5in concrete | n/a | n/a | 40 | -0.42 | -17 | -0.6 | 0% | -0.6 |
| 9.6 | Grass to Concrete | Topsoil Place | Place 3in topsoil over 6in wide gravel edge | n/a | n/a | 14 | -0.42 | -6 | -0.2 | 0% | -0.2 |
| 10.1 | Grass to Play Surface | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 1435 | 0.50 | 718 | 26.6 | 0% | 26.6 |
| 10.2 | Grass to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 1435 | varies | 0 | 0.0 | 0% | 0.0 |
| 10.3 | Grass to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 1435 | varies | -749 | -27.7 | 0% | -27.7 |
| 10.4 | Grass to Play Surface | Play Surface Place | Place 12in wood mulch play surface | n/a | n/a | 1435 | -1.00 | -1435 | -53.1 | 0% | -53.1 |
| 11.1 | Grass to Timbers | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 64 | 0.50 | 32 | 1.2 | 0% | 1.2 |
| 11.2 | Grass to Timbers | Subsoil Place | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 64 | varies | 0 | 0.0 | 0% | 0.0 |
| 11.3 | Grass to Timbers | Subsoil Excavate | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 64 | varies | -60 | -2.2 | 0% | -2.2 |
| 11.4 | Grass to Timbers | Border Timbers Place (placeholder volume) | Place playground border timbers (placeholder volume to balance volume comps) | n/a | n/a | 64 | -1.00 | -64 | -2.4 | 0% | -2.4 |
| 12.1 | Play Surface to Concrete | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 106 | 1.42 | 150 | 5.6 | 0% | 5.6 |
| 12.2 | Play Surface to Concrete | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-11in | 106 | varies | 0 | 0.0 | 0% | 0.0 |
| 12.3 | Play Surface to Concrete | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-11in | 106 | varies | -182 | -6.7 | 0% | -6.7 |
| 12.4 | Play Surface to Concrete | Gravel (for Pavement) Place | Place 6in gravel base out to 6in from pavement edge | n/a | n/a | 106 | -0.50 | -53 | -2.0 | 0% | -2.0 |
| 12.5 | Play Surface to Concrete | Concrete Place | Place 5in concrete | n/a | n/a | 78 | -0.42 | -33 | -1.2 | 0% | -1.2 |
| 12.6 | 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 |
| 13.1 | Play Surface to Grass | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 2209 | 1.42 | 3130 | 115.9 | 0% | 115.9 |
| 13.2 | Play Surface to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-6in | 2209 | varies | 0 | 0.0 | 0% | 0.0 |
| 13.3 | Play Surface to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-6in | 2209 | varies | -4233 | -156.8 | 0% | -156.8 |
| 13.4 | Play Surface to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 2209 | -0.50 | -1105 | -40.9 | 0% | -40.9 |
| 13.5 | Play Surface to Play Surface | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 1639 | 1.42 | 2322 | 86.0 | 0% | 86.0 |
| 13.6 | Play Surface to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 1639 | varies | 0 | 0.0 | 0% | 0.0 |
| 13.7 | Play Surface to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 1639 | varies | -3096 | -114.7 | 0% | -114.7 |
| 13.8 | Play Surface to Play Surface | Play Surface Place | Place 12in rubber mulch play surface | n/a | n/a | 1639 | -1.00 | -1639 | -60.7 | 0% | -60.7 |
| 14.1 | Play Surface to Timbers | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 2 | 1.42 | 3 | 0.1 | 0% | 0.1 |
| 14.2 | Play Surface to Timbers | Subsoil Place | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 2 | varies | 0 | 0.0 | 0% | 0.0 |
| 14.3 | Play Surface to Timbers | Subsoil Excavate | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 2 | varies | -4 | -0.1 | 0% | -0.1 |
| 14.4 | Play Surface to Timbers | Border Timbers Place (placeholder volume) | Place playground border timbers (placeholder volume to balance volume comps) | n/a | n/a | 2 | -1.00 | -2 | -0.1 | 0% | -0.1 |

Brittingham Park - Community Garden Playground - Earthwork Quantities

City of Madison, WI Public Works Contract 7927
 Date Revised: 3/8/2017

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

| Row Labels | Sum of Unfactored volume (cu yd) |
|---|----------------------------------|
| Asphalt Place | -2.7 |
| Border Timbers Place (placeholder volume) | -2.8 |
| Gravel (for Pavement) Place | -13.8 |
| Play Surface Excavate | 207.6 |
| Play Surface Place | -116.6 |
| Subsoil Excavate | -1.8 |
| Subsoil Place | -700.9 |
| Topsoil Excavate | 257.7 |
| Topsoil Place | -275.5 |
| Asphalt Excavate | 5.6 |
| Gravel (Clean) Excavate | 8.6 |
| Gravel (Dirty) Excavate | 4.3 |
| Concrete Place | -1.8 |
| Concrete Excavate | 1.4 |
| Grand Total | -630.7 |

Reorganized into bid table items

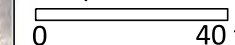
| Bid Item | Quantity | Units | Relation to Table Above |
|---|----------|-------|--|
| 20101 Excavation Cut | 256 | CY | = Subsoil Excavate + Topsoil Excavate+Asphalt Excavate |
| 20103 Excavation Cut - Pea Gravel | 208 | CY | = Play Surface Excavate |
| 20201 Fill | 703 | CY | = Subsoil Excavate + Subsoil Place |
| 20221 Topsoil | 1650 | SY | = (Topsoil Place)-167 |
| 40102 Crushed Aggregate Base Course Gradation No. 2 | 28 | tons | = (Gravel for Pavement Place) * -2 |
| 40201 3" Depth HMA Pavement Type E-0.3 & 3 | 5.9 | tons | = Asphalt Place * -2.16 ton/cubic yard |
| 90004 Playground Surfacing - Rubber Mulch | 128 | CY | = Play Surface Place * -1.10 |

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



PROJECT:

*2017
PLAYGROUNDS -
GROUP 2*

**COUNTRY GROVE PARK
7353 E PASS
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.

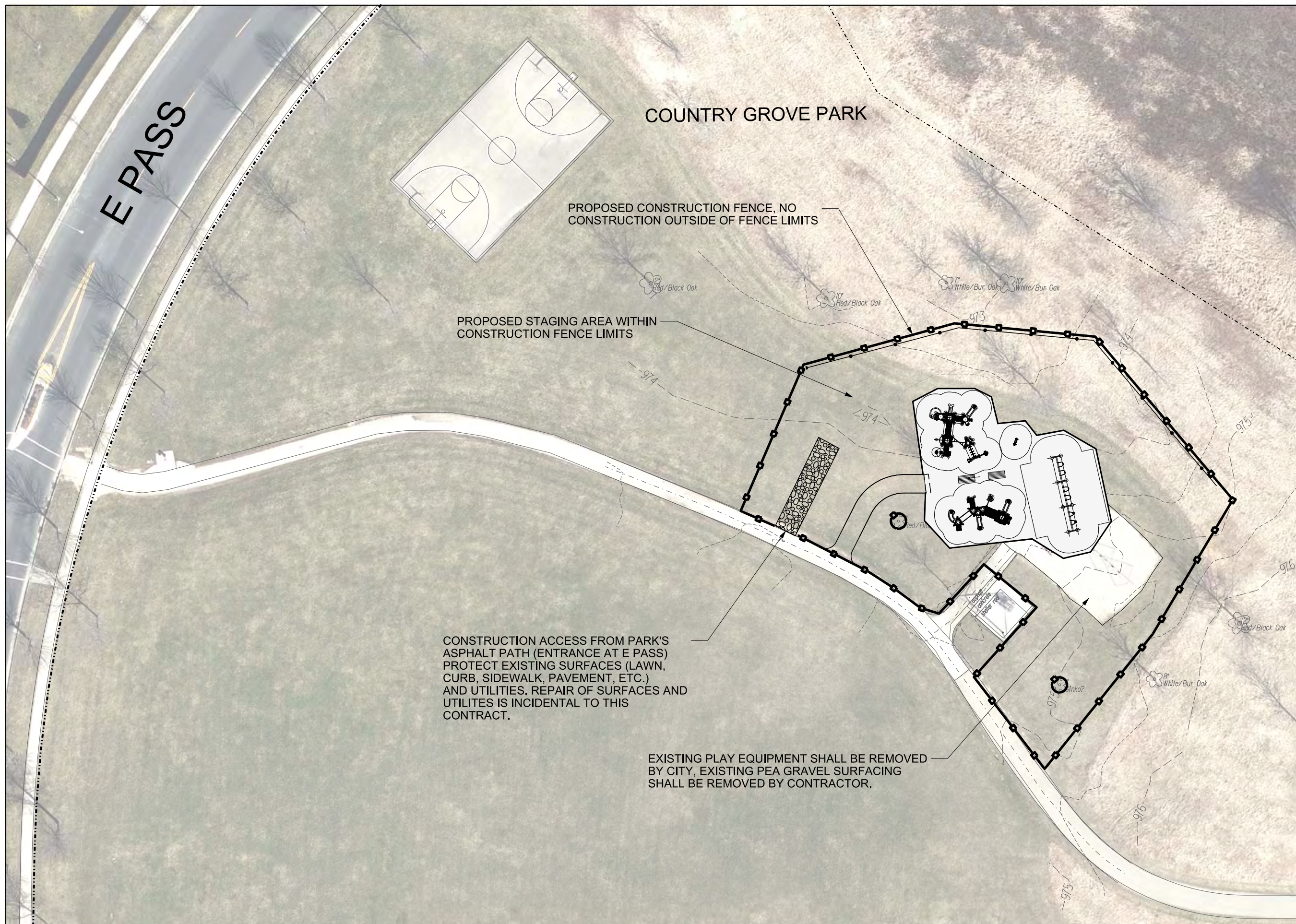
| ITEM | DATE |
|--------------|------------|
| Drawn by: KK | 04-14-2017 |
| Approved by: | xx-xx-xxxx |

PUBLIC WORKS PROJECT #:
7930

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

SHEET NUMBER:

4.1



COUNTRY GROVE PARK











PROPOSED CONSTRUCTION FENCE, NO
CONSTRUCTION OUTSIDE OF FENCE LIMITS

PROPOSED STAGING AREA WITHIN
CONSTRUCTION FENCE LIMITS

CONSTRUCTION ACCESS FROM PARK'S
ASPHALT PATH (ENTRANCE AT E PASS)
PROTECT EXISTING SURFACES (LAWN,
CURB, SIDEWALK, PAVEMENT, ETC.)
AND UTILITIES. REPAIR OF SURFACES AND
UTILITIES IS INCIDENTAL TO THIS
CONTRACT.

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

LEGEND

-  REMOVE EX. LAWN
-  REMOVE EX. PEA GRAVEL
-  REMOVE EX. ASPHALT
-  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.

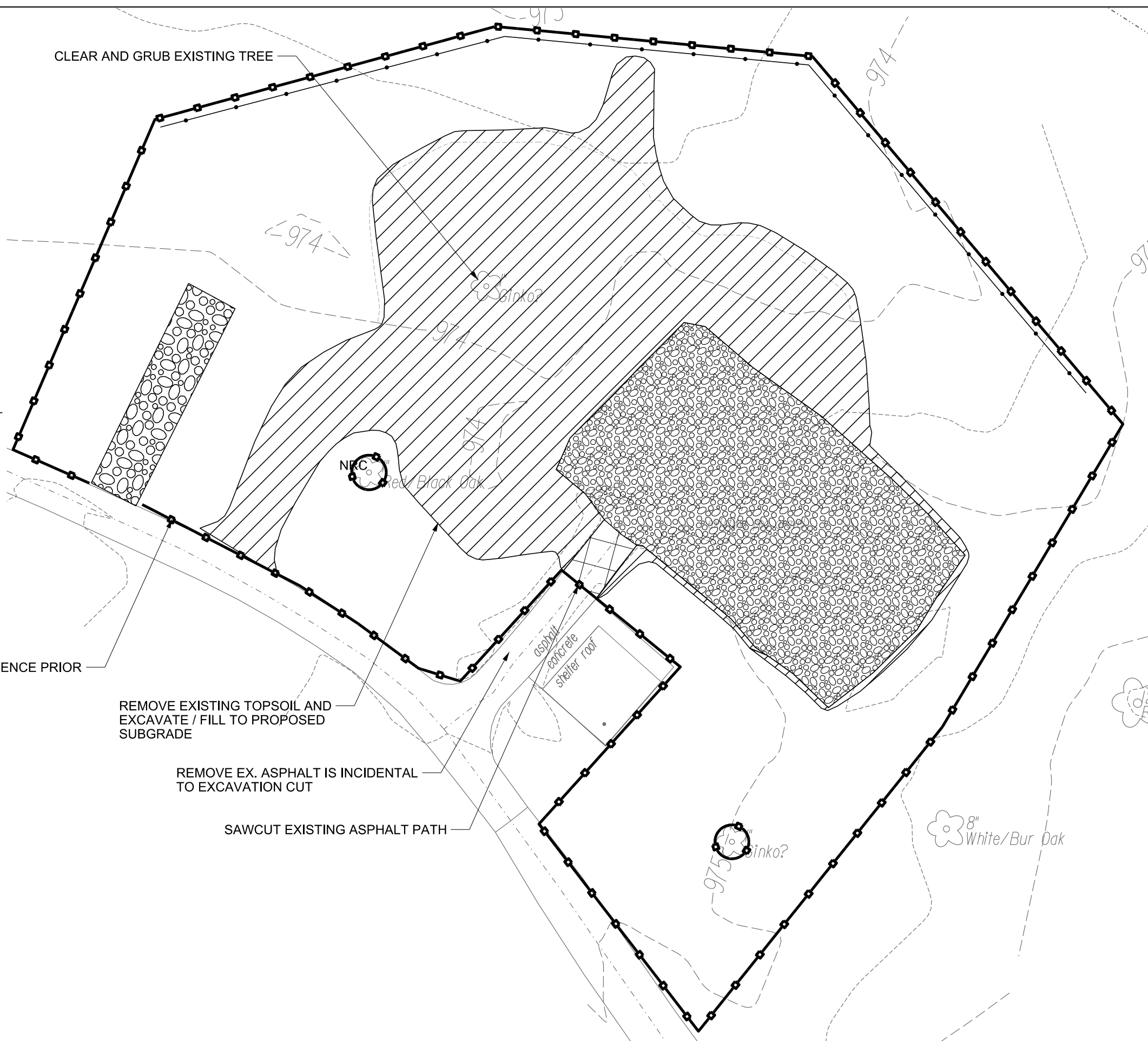
PLACE CONSTRUCTION FENCE PRIOR TO CONSTRUCTION

REMOVE EXISTING TOPSOIL AND EXCAVATE / FILL TO PROPOSED SUBGRADE

REMOVE EX. ASPHALT IS INCIDENTAL TO EXCAVATION CUT

SAWCUT EXISTING ASPHALT PATH

CLEAR AND GRUB EXISTING TREE



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 20 ft



PROJECT:

*2017
PLAYGROUNDS-
GROUP 2*

COUNTRY GROVE PARK
7353 E PASS
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: KK | 04-14-2017 |
| Approved by: | xx-xx-xxxx |

PUBLIC WORKS PROJECT #:
7930

SHEET TITLE:
**DEMOLITION AND
PROTECTION PLAN**

SHEET NUMBER:
4.2

LEGEND

-  PRO. SPOT EL.
-  PRO. ASPHALT
-  PRO. WOOD MULCH
-  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

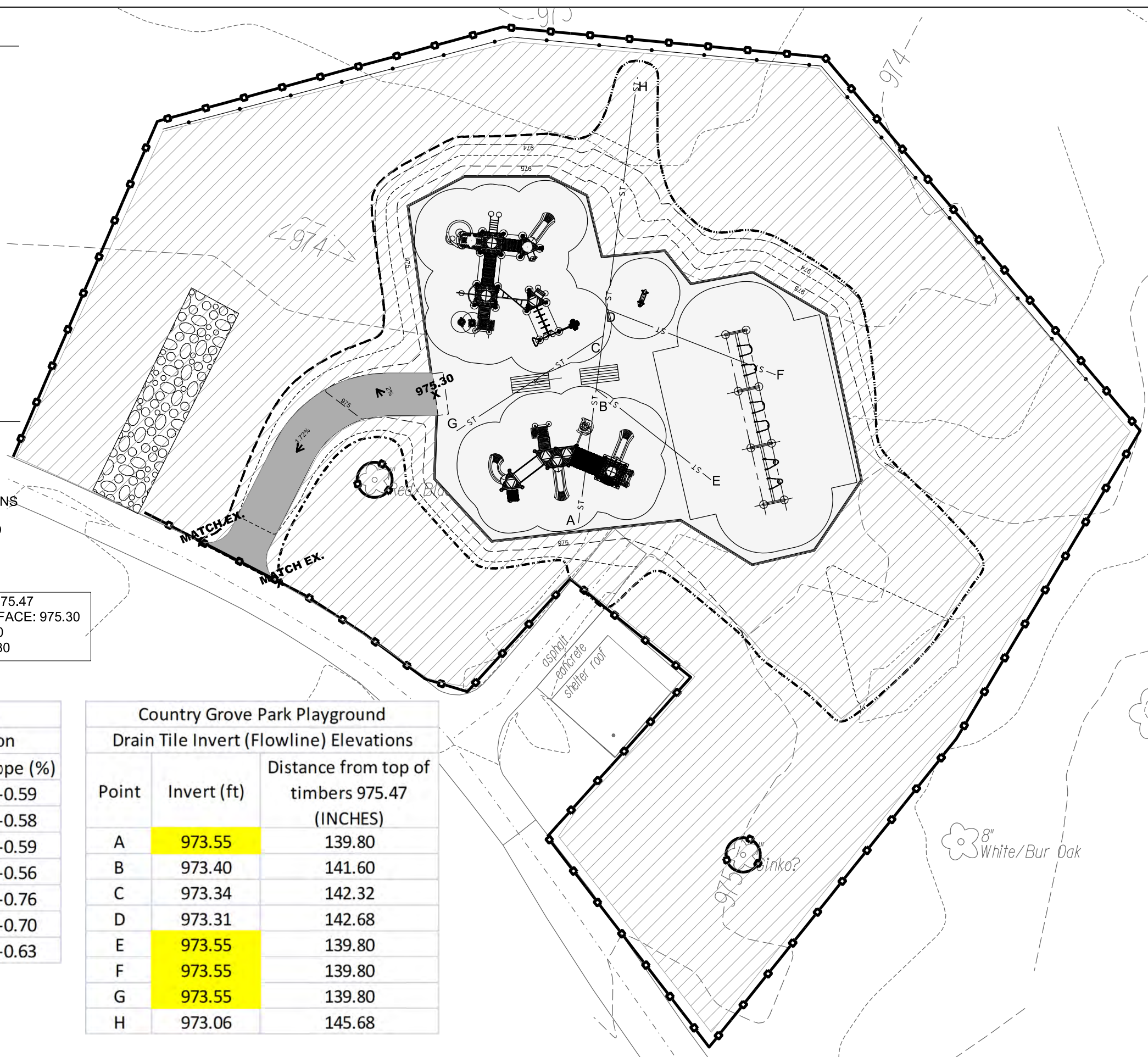
NOTES

- 1.) PLACE 4 OZ. PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 7.1.
- 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: 975.47
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 975.30
 PLAYGROUND SUBGRADE ELEVATION: 974.30
 ASPHALT AT PLAYGROUND ELEVATION: 975.30

| Drain Tile Lengths & Slopes from intersection to intersection | | | |
|--|----|-------------|-----------|
| From | To | Length (ft) | Slope (%) |
| A | B | 25.54 | -0.59 |
| B | C | 10.27 | -0.58 |
| C | D | 5.06 | -0.59 |
| D | H | 44.37 | -0.56 |
| E | B | 27.69 | -0.76 |
| F | D | 34.45 | -0.70 |
| G | C | 33.19 | -0.63 |

| Country Grove Park Playground Drain Tile Invert (Flowline) Elevations | | |
|--|-------------|--|
| Point | Invert (ft) | Distance from top of timbers 975.47 (INCHES) |
| A | 973.55 | 139.80 |
| B | 973.40 | 141.60 |
| C | 973.34 | 142.32 |
| D | 973.31 | 142.68 |
| E | 973.55 | 139.80 |
| F | 973.55 | 139.80 |
| G | 973.55 | 139.80 |
| H | 973.06 | 145.68 |



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 20 ft



PROJECT:
 2017
 PLAYGROUNDS-
 GROUP 2

COUNTRY GROVE PARK
 7353 E PASS
 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: KK 04-14-2017
 Approved by: xx-xx-xxxx

PUBLIC WORKS PROJECT #:
 7930

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

SHEET NUMBER:
4.4

Country Grove Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract
Date Revised: 3-8-2017

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 CountryGrove_Survey2016-08-11.dtm
Proposed Pro 1.dtm
Proposed

| 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) |
|------------------------------|---|--|--------------------|------------------|--------------|------------|----------------------------|----------------------------|-----------------------|--|
| Asphalt to Grass | Asphalt Excavate | Remove estimated 3in asphalt | n/a | n/a | 102 | 0.25 | 26 | 0.9 | 0% | 0.9 |
| Asphalt to Grass | Gravel (Clean) Excavate | Remove estimated 4in clean gravel base | n/a | n/a | 102 | 0.33 | 34 | 1.3 | 0% | 1.3 |
| Asphalt to Grass | Gravel (Dirty) Excavate | Remove estimated 2in mixed gravel/subsoil | n/a | n/a | 102 | 0.17 | 17 | 0.6 | 0% | 0.6 |
| Asphalt to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-9in | Fro-6in | 102 | varies | 0 | 0.0 | 0% | 0.0 |
| Asphalt to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-9in | Fro-6in | 102 | varies | -47 | -1.7 | 0% | -1.7 |
| Asphalt to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 102 | -0.50 | -51 | -1.9 | 0% | -1.9 |
| Asphalt to Timbers | Asphalt Excavate | Remove estimated 3in asphalt | n/a | n/a | 0 | 0.25 | 0 | 0.0 | 0% | 0.0 |
| Asphalt to Timbers | Gravel (Clean) Excavate | Remove estimated 4in clean gravel base | n/a | n/a | 0 | 0.33 | 0 | 0.0 | 0% | 0.0 |
| Asphalt to Timbers | Gravel (Dirty) Excavate | Remove estimated 2in mixed gravel/subsoil | n/a | n/a | 0 | 0.17 | 0 | 0.0 | 0% | 0.0 |
| Asphalt to Timbers | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-9in | Fro-12in | 0 | varies | 0 | 0.0 | 0% | 0.0 |
| Asphalt to Timbers | Subsoil Place | Fill subsoil to proposed subgrade | Ex-9in | Fro-12in | 0 | varies | -14 | -0.5 | 0% | -0.5 |
| Asphalt to Timbers | Border Timbers Place (placeholder volume) | Place playground border timbers (placeholder volume to balance volume comps) | n/a | n/a | 0 | -1.00 | 0 | 0.0 | 0% | 0.0 |
| Grass to Asphalt | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 505 | 0.50 | 253 | 9.4 | 0% | 9.4 |
| Grass to Asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Fro-12in | 505 | varies | 52 | 1.9 | 0% | 1.9 |
| Grass to Asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Fro-12in | 505 | varies | -100 | -3.7 | 0% | -3.7 |
| Grass to Asphalt | Gravel (for Pavement) Place | Place 9in gravel base out to 6in from pavement edge | n/a | n/a | 505 | -0.75 | -379 | -14.0 | 0% | -14.0 |
| Grass to Asphalt | Asphalt Place | Place 3in asphalt | n/a | n/a | 445 | -0.25 | -111 | -4.1 | 0% | -4.1 |
| Grass to Asphalt | Topsoil Place | Place 3in topsoil over 6in wide gravel edge | n/a | n/a | 61 | -0.25 | -15 | -0.6 | 0% | -0.6 |
| Grass to Grass | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 2185 | 0.50 | 1092 | 40.5 | 0% | 40.5 |
| Grass to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Fro-6in | 2185 | varies | 1 | 0.0 | 0% | 0.0 |
| Grass to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Fro-6in | 2185 | varies | -764 | -28.3 | 0% | -28.3 |
| Grass to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 2185 | -0.50 | -1092 | -40.5 | 0% | -40.5 |
| Grass to Play Surface | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 2866 | 0.50 | 1433 | 53.1 | 0% | 53.1 |
| Grass to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Fro-12in | 2866 | varies | 0 | 0.0 | 0% | 0.0 |
| Grass to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Fro-12in | 2866 | varies | -2244 | -83.1 | 0% | -83.1 |
| Grass to Play Surface | Play Surface Place | Place 12in wood mulch play surface | n/a | n/a | 2866 | -1.00 | -2866 | -106.2 | 0% | -106.2 |
| Grass to Timbers | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 69 | 0.50 | 35 | 1.3 | 0% | 1.3 |
| Grass to Timbers | Subsoil Place | Cut subsoil to proposed subgrade | Ex-6in | Fro-12in | 69 | varies | 0 | 0.0 | 0% | 0.0 |
| Grass to Timbers | Subsoil Excavate | Fill subsoil to proposed subgrade | Ex-6in | Fro-12in | 69 | varies | -67 | -2.5 | 0% | -2.5 |
| Grass to Timbers | Border Timbers Place (placeholder volume) | Place playground border timbers (placeholder volume to balance volume comps) | n/a | n/a | 69 | -1.00 | -69 | -2.6 | 0% | -2.6 |
| Play Surface to Grass | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 1408 | 1.42 | 1994 | 73.9 | 0% | 73.9 |
| Play Surface to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Fro-6in | 1408 | varies | 0 | 0.0 | 0% | 0.0 |
| Play Surface to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Fro-6in | 1408 | varies | -1752 | -64.9 | 0% | -64.9 |
| Play Surface to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 1408 | -0.50 | -704 | -26.1 | 0% | -26.1 |
| Play Surface to Play Surface | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 1500 | 1.42 | 2126 | 78.7 | 0% | 78.7 |
| Play Surface to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Fro-12in | 1500 | varies | 0 | 0.0 | 0% | 0.0 |
| Play Surface to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Fro-12in | 1500 | varies | -1929 | -71.5 | 0% | -71.5 |
| Play Surface to Play Surface | Play Surface Place | Place 12in wood mulch play surface | n/a | n/a | 1500 | -1.00 | -1500 | -55.6 | 0% | -55.6 |
| Play Surface to Timbers | Play Surface Excavate | Remove existing play surface, estimated depth 17in | n/a | n/a | 22 | 1.42 | 31 | 1.2 | 0% | 1.2 |
| Play Surface to Timbers | Subsoil Place | Cut subsoil to proposed subgrade | Ex-17in | Fro-12in | 22 | varies | 0 | 0.0 | 0% | 0.0 |
| Play Surface to Timbers | Subsoil Excavate | Fill subsoil to proposed subgrade | Ex-17in | Fro-12in | 22 | 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 | 22 | -1.00 | -22 | -0.8 | 0% | -0.8 |

Country Grove Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract 7927
Date Revised: 3/13/2017

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 | -4.1 |
| Border Timbers Place (placeholder volume) | -3.4 |
| Gravel (for Pavement) Place | -14.0 |
| Play Surface Excavate | 153.7 |
| Play Surface Place | -161.7 |
| Subsoil Excavate | -1.5 |
| Subsoil Place | -253.7 |
| Topsoil Excavate | 104.2 |
| Topsoil Place | -69.0 |
| Asphalt Excavate | 0.9 |
| Gravel (Clean) Excavate | 1.3 |
| Gravel (Dirty) Excavate | 0.6 |
| Grand Total | -246.7 |

Reorganized into bid table items

| Bid Item | Quantity | Units | Relation to Table Above |
|---|----------|-------|--|
| 20101 Excavation Cut | 103 | CY | = Subsoil Excavate + Topsoil Excavate+Asphalt Excavate |
| 20103 Excavation Cut - Pea Gravel | 154 | CY | = Play Surface Excavate |
| 20201 Fill | 255 | CY | = Subsoil Excavate + Subsoil Place |
| 20221 Topsoil | 413 | SY | = (Topsoil Place)/-.167 |
| 40102 Crushed Aggregate Base Course Gradation No. 2 | 28 | tons | = (Gravel for Pavement Place) * -2 ton/cubic yard |
| 40201 3" Depth HMA Pavement Type E-0.3 & 3 | 9.0 | tons | = Asphalt Place * -2.16 ton/cubic yard |
| 90004 Playground Surfacing - Wood Mulch | 178 | CY | = Play Surface Place * -1.10 |

City of Madison
Department of Public Works
PARKS DIVISION

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



PROJECT:

*2017
PLAYGROUNDS -
GROUP 2*

*COUNTRY GROVE PARK
7353 E PASS
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: KK 04-14-2017
Approved by: xx-xx-xxxx

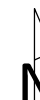
PUBLIC WORKS PROJECT #:
7930

SHEET TITLE:
**DESIGN
COMPUTATIONS**

SHEET NUMBER:
4.5

Graphical Scale

0 40 ft



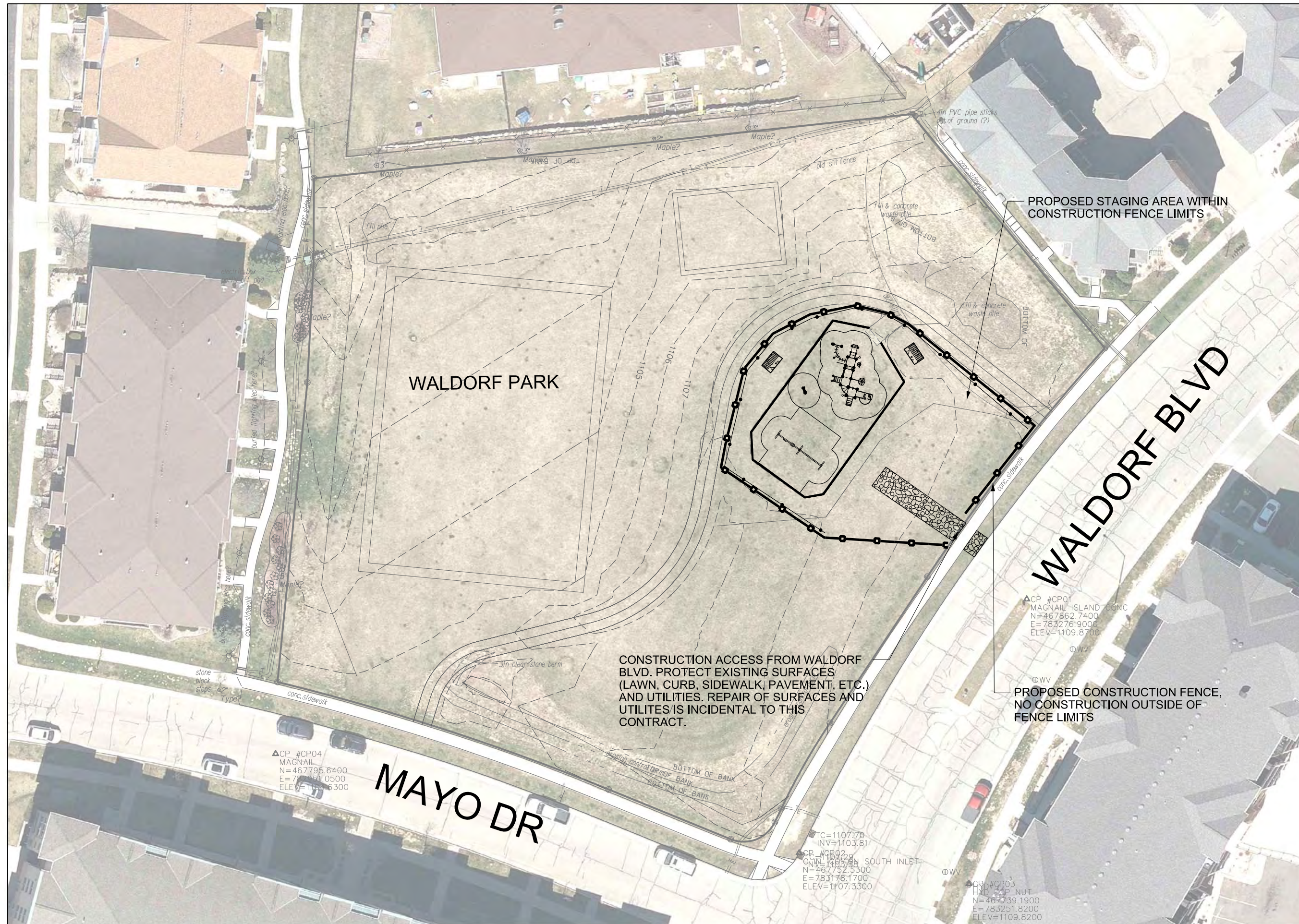
PROJECT:

*2017
 PLAYGROUNDS -
 GROUP 2*








*WALDORF PARK
 1736 WALDORF BLVD
 MADISON, WI 53719*

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| ITEM | DATE |
|--------------|------------|
| Drawn by: KK | 04-14-2017 |
| Approved by: | xx-xx-xxxx |
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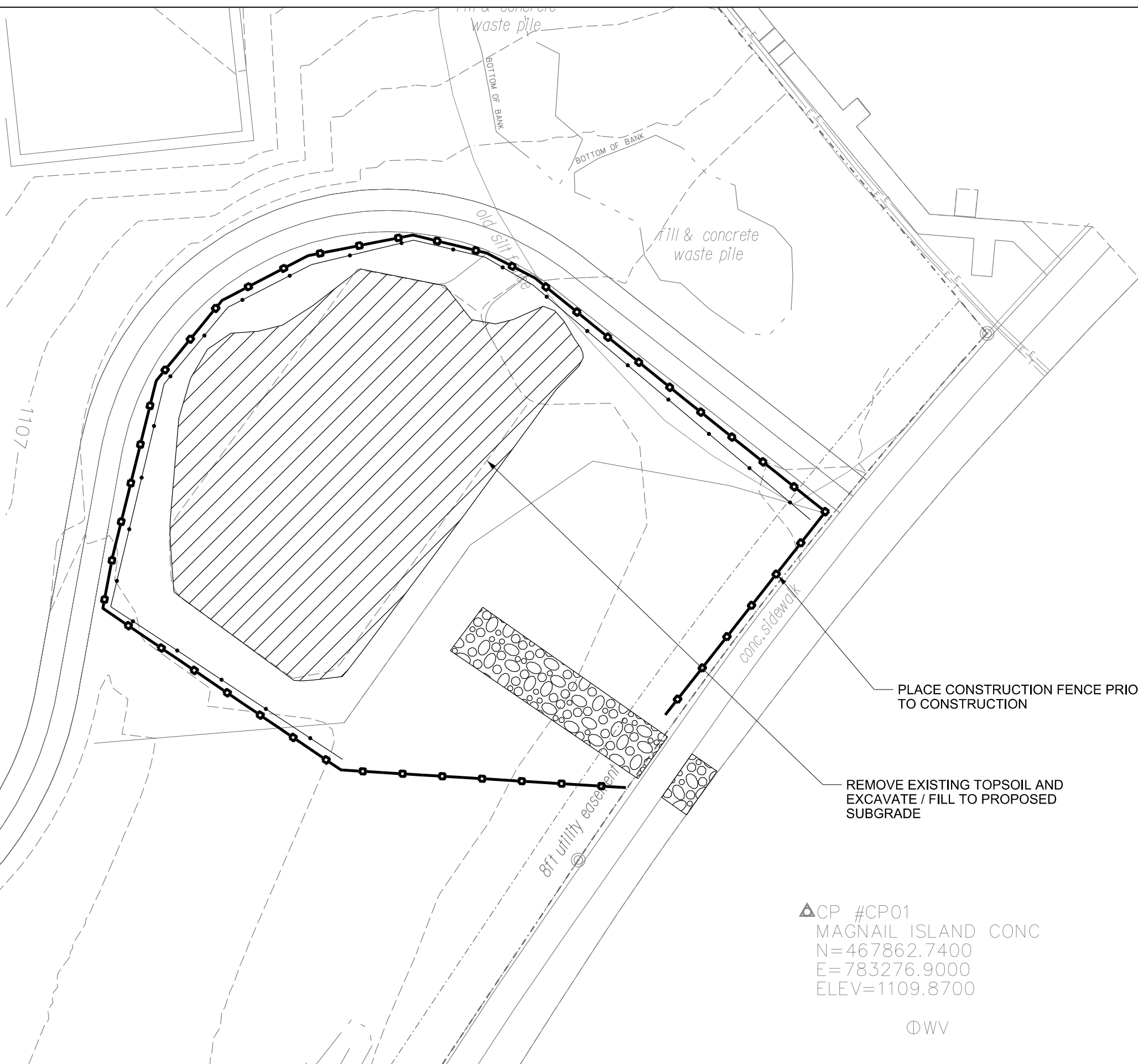


LEGEND

-  REMOVE EX. LAWN
-  PRO. CONSTRUCTION ENTRANCE
-  PRO. CONSTRUCTION FENCE
-  PRO. SILT SOCK
-  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.



PLACE CONSTRUCTION FENCE PRIOR TO CONSTRUCTION


REMOVE EXISTING TOPSOIL AND EXCAVATE / FILL TO PROPOSED SUBGRADE

△CP #CP01
MAGNAIL ISLAND CONC
N=467862.7400
E=783276.9000
ELEV=1109.8700

⊙DWV

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 20 ft 

PROJECT:
2017 PLAYGROUNDS - GROUP 2

*WALDORF PARK
1736 WALDORF BLVD
MADISON, WI 53719*

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| ITEM | DATE |
|--------------|------------|
| Drawn by: KK | 04-14-2017 |
| Approved by: | xx-xx-xxxx |
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PUBLIC WORKS PROJECT #:
7930

SHEET TITLE:
DEMOLITION AND PROTECTION PLAN

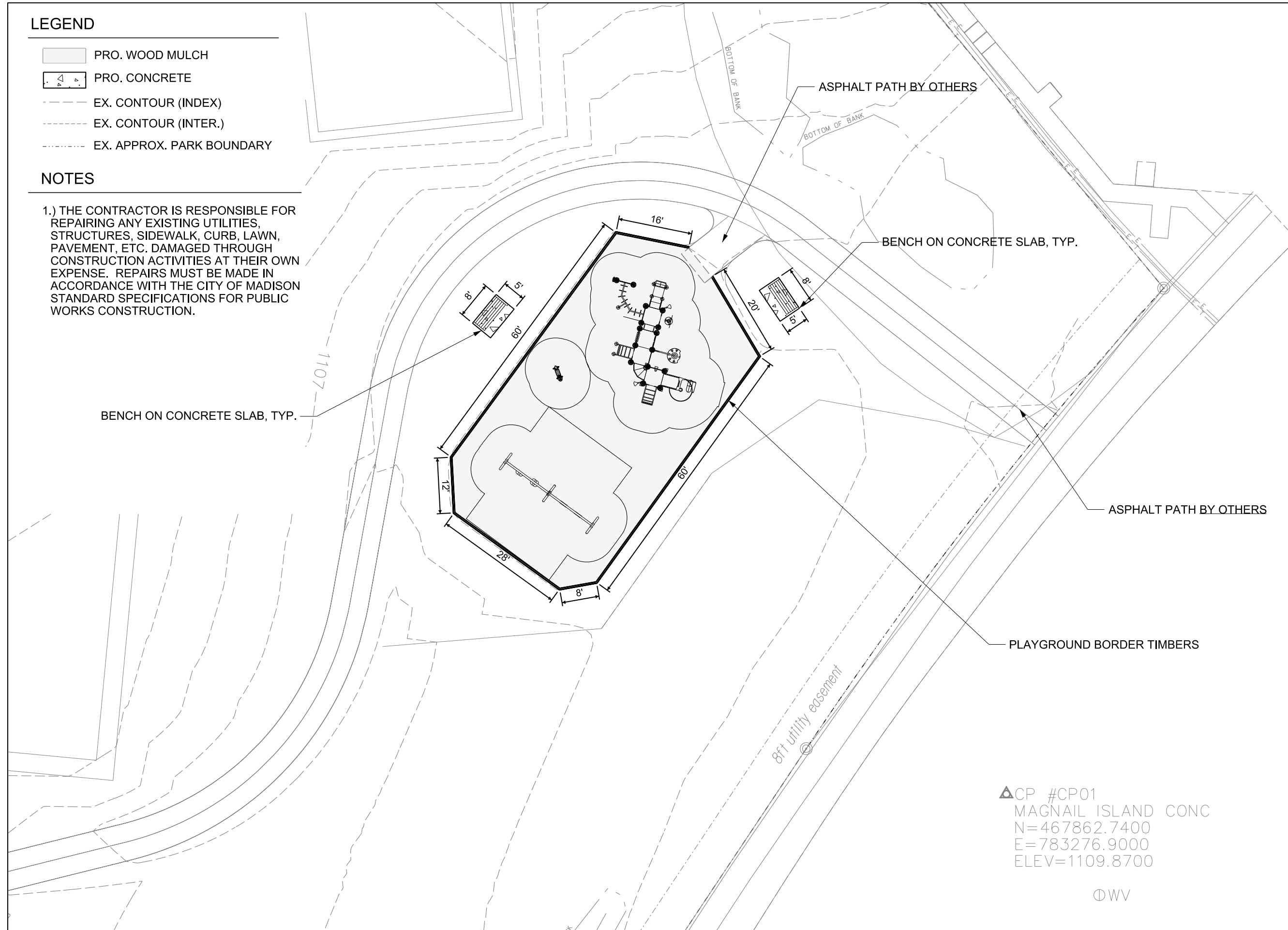
SHEET NUMBER:
5.2

LEGEND

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

NOTES

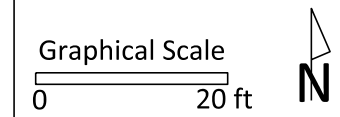
1.) THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY EXISTING UTILITIES, STRUCTURES, SIDEWALK, CURB, LAWN, PAVEMENT, ETC. DAMAGED THROUGH CONSTRUCTION ACTIVITIES AT THEIR OWN EXPENSE. REPAIRS MUST BE MADE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



City of Madison
 Department of Public Works
PARKS DIVISION

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 Madison, WI 53703

play
MADISON
PARKS



PROJECT:
 2017
 PLAYGROUNDS -
 GROUP 2

WALDORF PARK
 1736 WALDORF BLVD
 MADISON, WI 53719

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









| ITEM | DATE |
|--------------|------------|
| Drawn by: KK | 04-14-2017 |
| Approved by: | xx-xx-xxxx |
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PUBLIC WORKS PROJECT #:
7930

SHEET TITLE:
SITE PLAN

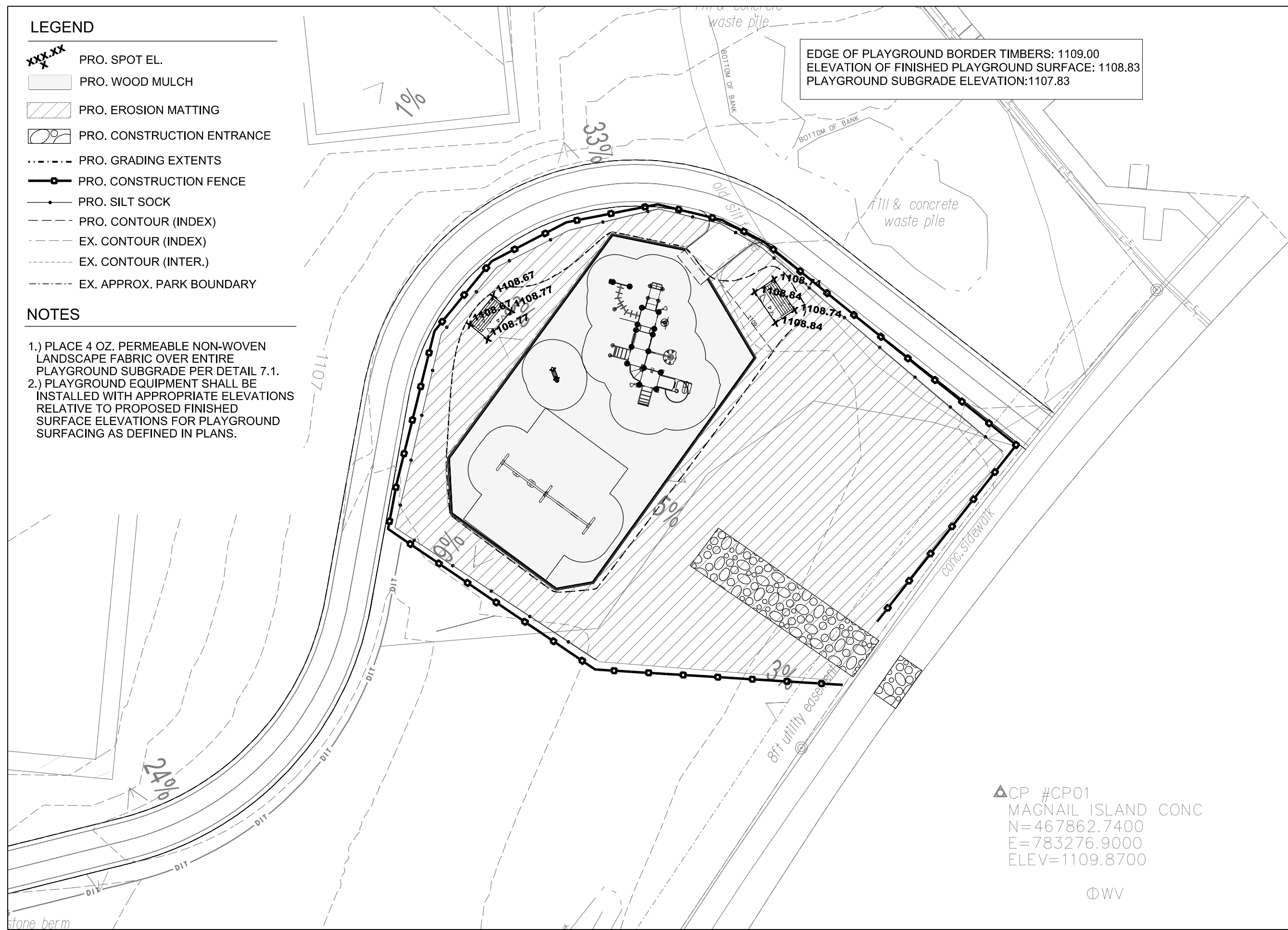
SHEET NUMBER:
5.3

LEGEND

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

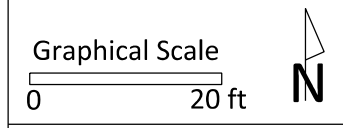
NOTES

- 1.) PLACE 4 OZ. PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 7.1.
- 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
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 Madison, WI 53703

play
MADISON
PARKS



PROJECT:
 2017
 PLAYGROUNDS -
 GROUP 2

WALDORF PARK
 1736 WALDORF BLVD
 MADISON, WI 53719

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| ITEM | DATE |
|--------------|------------|
| Drawn by: KK | 04-14-2017 |
| Approved by: | xx-xx-xxxx |
| | |
| | |
| | |

PUBLIC WORKS PROJECT #:
7930

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

SHEET NUMBER:
5.4

△CP #CP01
 MAGNAIL ISLAND CONC
 N=467862.7400
 E=783276.9000
 ELEV=1109.8700
 ○DW



PROJECT:
**2017
 PLAYGROUNDS -
 GROUP 2**

**WALDORF PARK
 1736 WALDORF BLVD
 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: KK 04-14-2017
 Approved by: xx-xx-xxxx

PUBLIC WORKS PROJECT #:
7930

SHEET TITLE:
**DESIGN
 COMPUTATIONS**

SHEET NUMBER:
5.5

| Waldorf Park Playground - Earthwork Quantities | | | | | | | | | | |
|---|---|--|--------------------|------------------|--------------|------------|----------------------------|----------------------------|-----------------------|--|
| City of Madison, WI Public Works Contract | | | | | | | | | | |
| Date Revised: 3-17-2017 | | | | | | | | | | |
| 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 | Waldorf_Grading_Pro4.dtm | | | | | | | | | |
| Proposed | Pro2.dtm | | | | | | | | | |
| Proposed | | | | | | | | | | |
| 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) |
| 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 | 59 | 2.2 | 0% | 2.2 |
| 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 | 24 | -0.42 | -10 | -0.4 | 0% | -0.4 |
| Grass to Grass | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 753 | 0.50 | 376 | 13.9 | 0% | 13.9 |
| Grass to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-6in | 753 | varies | 18 | 0.7 | 0% | 0.7 |
| Grass to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-6in | 753 | varies | -6 | -0.2 | 0% | -0.2 |
| Grass to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 753 | -0.50 | -376 | -13.9 | 0% | -13.9 |
| Grass to Play Surface | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 2849 | 0.50 | 1424 | 52.8 | 0% | 52.8 |
| Grass to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 2849 | varies | 1906 | 70.6 | 0% | 70.6 |
| Grass to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 2849 | varies | 0 | 0.0 | 0% | 0.0 |
| Grass to Play Surface | Play Surface Place | Place 12in wood mulch play surface | n/a | n/a | 2849 | -1.00 | -2849 | -105.5 | 0% | -105.5 |
| Grass to Timbers | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 69 | 0.50 | 35 | 1.3 | 0% | 1.3 |
| Grass to Timbers | Subsoil Place | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 69 | varies | 33 | 1.2 | 0% | 1.2 |
| Grass to Timbers | Subsoil Excavate | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 69 | varies | 0 | 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 | 69 | -1.00 | -69 | -2.6 | 0% | -2.6 |

| Waldorf Park Playground - Earthwork Quantities | |
|--|--|
| City of Madison, WI Public Works Contract | 7930 |
| Date Revised: | 3/17/2017 |
| 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) |
| Border Timbers Place (placeholder volume) | -2.6 |
| Gravel (for Pavement) Place | -2.0 |
| Play Surface Place | -105.5 |
| Subsoil Excavate | 73.4 |
| Subsoil Place | 1.0 |
| Topsoil Excavate | 70.0 |
| Topsoil Place | -14.3 |
| Concrete Place | -1.2 |
| Grand Total | 18.8 |

| Reorganized into bid table items | | | |
|---|----------|--------|--|
| Bid Item | Quantity | Units | Relation to Table Above |
| 20101 Excavation Cut | | 143 CY | = Subsoil Excavate + Topsoil Excavate+Asphalt Excavate |
| 20201 Fill | | 74 CY | = Subsoil Excavate + Subsoil Place |
| 20221 Topsoil | | 86 SY | = (Topsoil Place)-. 167 |
| 90004 Playground Surfacing - Wood Mulch | | 116 CY | = Play Surface Place * -1.10 |



WEXFORD PARK

EXISTING PLAY EQUIPMENT SHALL BE REMOVED BY CITY EXCEPT AS NOTED, EXISTING MIXED RUBBER / PEA GRAVEL SURFACING SHALL BE REMOVED BY CONTRACTOR.

PROPOSED CONSTRUCTION FENCE, NO CONSTRUCTION OUTSIDE OF FENCE LIMITS

EXISTING HEX NET CLIMBER AND CONCRETE BLOCK RETAINING WALL TO STAY IN-PLACE; CONTRACTOR TO REMOVE EXISTING MIXED RUBBER / PEA GRAVEL SURFACING SURROUNDING AND BELOW EQUIPMENT

PROPOSED STAGING AREA WITHIN CONSTRUCTION FENCE LIMITS

CONSTRUCTION ACCESS FROM PARK'S ASPHALT PATH (ENTRANCE AT N WESTFIELD ROAD) PROTECT EXISTING SURFACES (LAWN, CURB, SIDEWALK, PAVEMENT, ETC.) AND UTILITIES. REPAIR OF SURFACES AND UTILITIES IS INCIDENTAL TO THIS CONTRACT.

City of Madison
Department of Public Works
PARKS DIVISION

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Madison, WI 53703

play
**MADISON
PARKS**

Graphical Scale



PROJECT:

**2017 PARK
PLAYGROUNDS -
GROUP 2**

**WEXFORD PARK
1201 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 |
|--------------|------------|
| Drawn by: KK | 04-14-2017 |
| Approved by: | xx-xx-xxxx |
| | |
| | |
| | |

PUBLIC WORKS PROJECT #:
7930

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

SHEET NUMBER:
6.1

REMOVE EXISTING TOPSOIL AND EXCAVATE / FILL TO PROPOSED SUBGRADE

REMOVE / DISPOSE EXISTING BENCH AND CONCRETE PAD




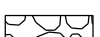

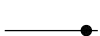




PLACE CONSTRUCTION FENCE PRIOR TO CONSTRUCTION

REMOVE / DISPOSE EXISTING BENCH AND CONCRETE PAD

CLEAR AND GRUB EXISTING TREE

REMOVE AND DISPOSE OF EXISTING CONCRETE PAD

LEGEND

-  REMOVE EX. LAWN
-  REMOVE EX. PEA GRAVEL
-  REMOVE EX. ASPHALT
-  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.

CAUTION
CAUTION EXISTING WATER LINE- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES DAMAGED DURING CONSTRUCTION

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play
MADISON PARKS

Graphical Scale
0 20 ft 

PROJECT:
2017 PARK PLAYGROUNDS - GROUP 2

WEXFORD PARK
1201 N WESTFIELD RD
MADISON, WI 53717

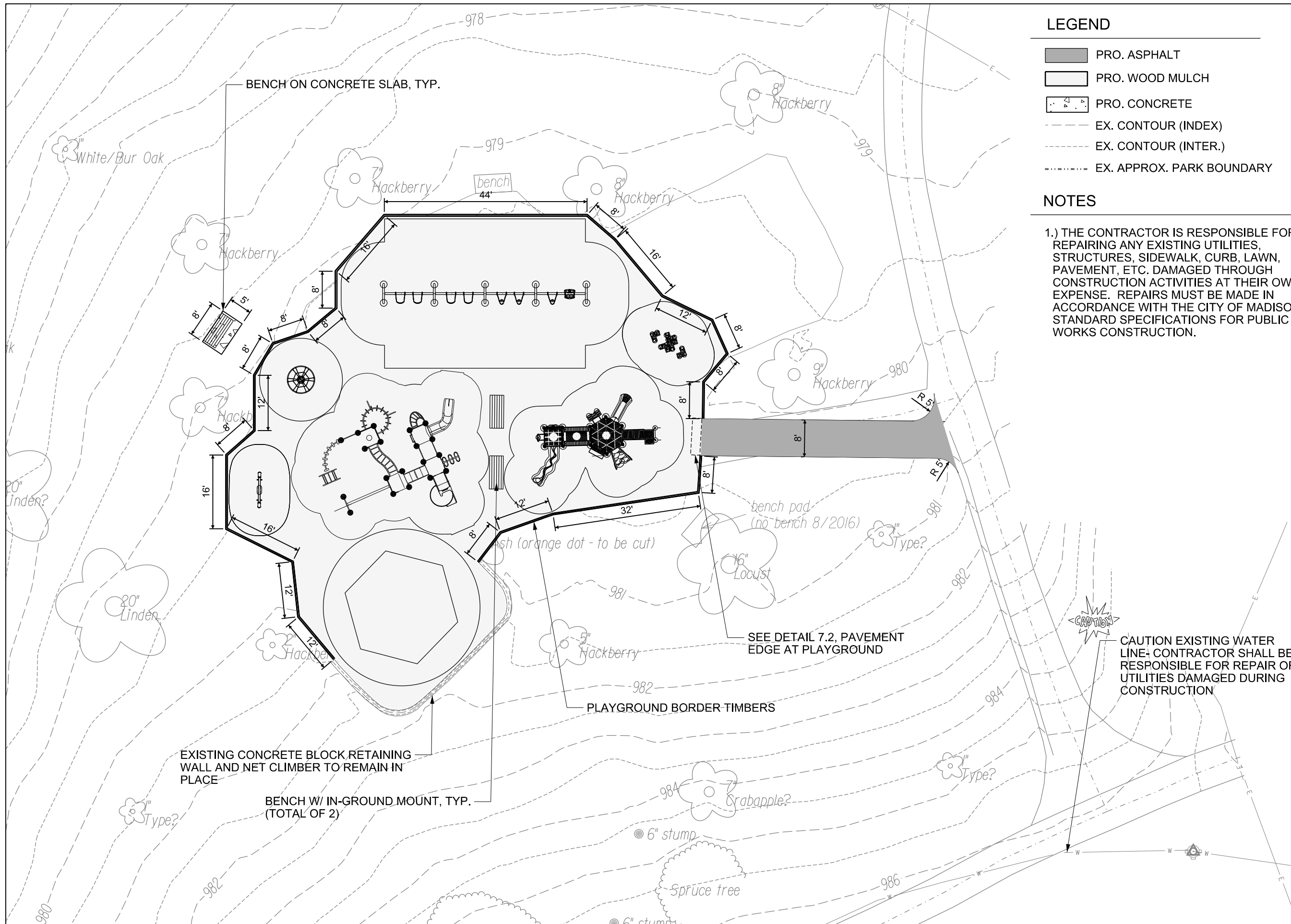
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

| ITEM | DATE |
|--------------|------------|
| Drawn by: KK | 04-14-2017 |
| Approved by: | xx-xx-xxxx |
| | |
| | |
| | |

PUBLIC WORKS PROJECT #:
7930

SHEET TITLE:
DEMOLITION AND PROTECTION PLAN

SHEET NUMBER:
6.2



LEGEND

- PRO. ASPHALT
- PRO. WOOD MULCH
- 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.

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play
MADISON
PARKS

Graphical Scale
 0 20 ft N

PROJECT:
**2017 PARK
 PLAYGROUNDS -
 GROUP 2**

WEXFORD PARK
1201 N WESTFIELD RD
MADISON, WI 53717

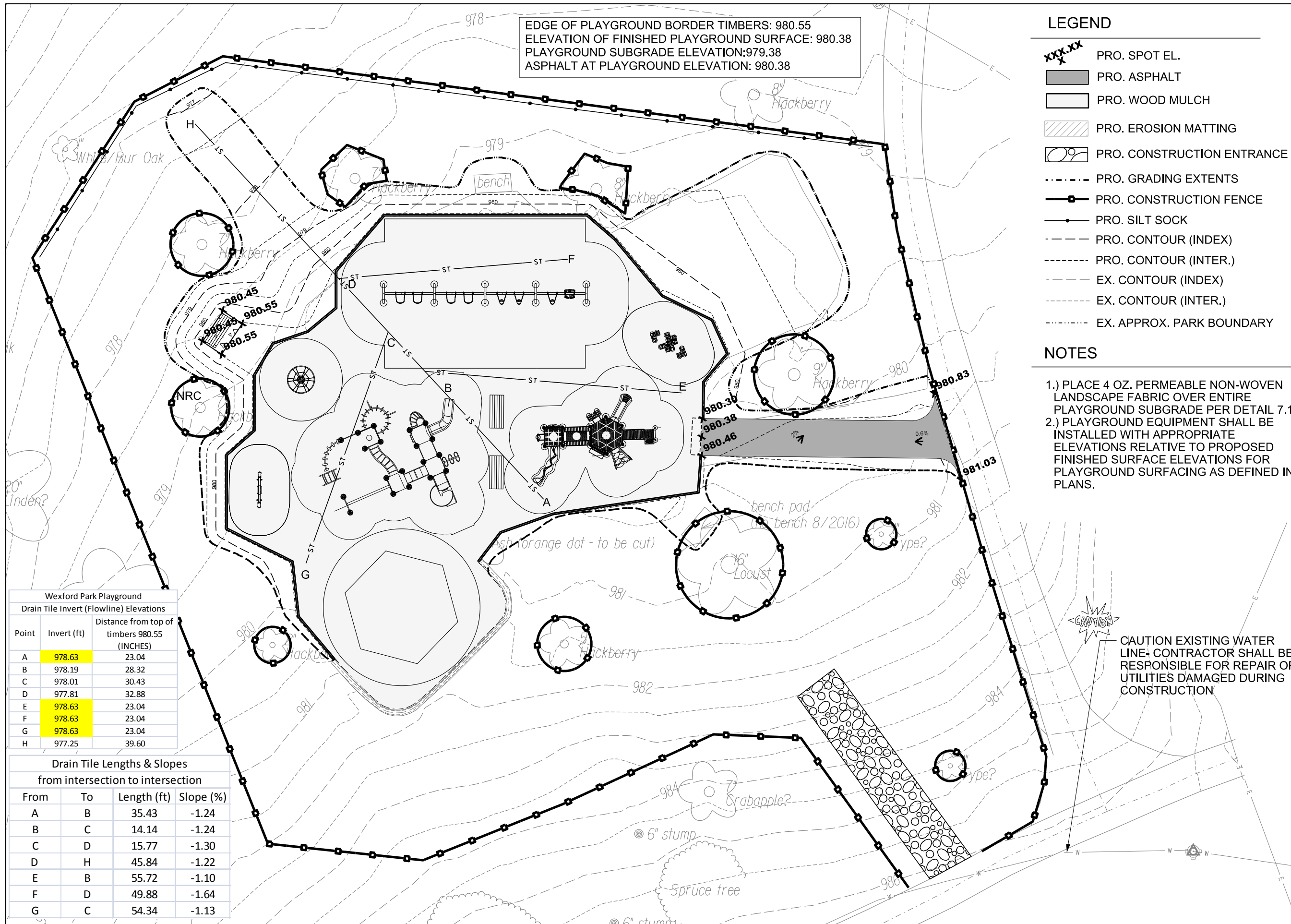
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

| ITEM | DATE |
|--------------|------------|
| Drawn by: KK | 04-14-2017 |
| Approved by: | xx-xx-xxxx |
| | |
| | |
| | |

PUBLIC WORKS PROJECT #:
7930

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
6.3



EDGE OF PLAYGROUND BORDER TIMBERS: 980.55
 ELEVATION OF FINISHED PLAYGROUND SURFACE: 980.38
 PLAYGROUND SUBGRADE ELEVATION: 979.38
 ASPHALT AT PLAYGROUND ELEVATION: 980.38

LEGEND

- XXX.XX
X PRO. SPOT EL.
- PRO. ASPHALT
- PRO. WOOD MULCH
- ▨ 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

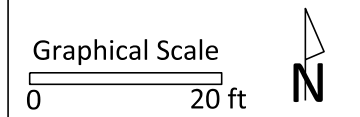
NOTES

- 1.) PLACE 4 OZ. PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 7.1.
- 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

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play
MADISON
PARKS



PROJECT:
2017 PARK
PLAYGROUNDS -
GROUP 2

WEXFORD PARK
1201 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 |
|--------------|------------|
| Drawn by: KK | 04-14-2017 |
| Approved by: | xx-xx-xxxx |
| | |
| | |
| | |

PUBLIC WORKS PROJECT #:
7930

SHEET TITLE:
GRADING AND
EROSION CONTROL
PLAN

SHEET NUMBER:
6.4

| Wexford Park Playground | | |
|---|-------------|--|
| Drain Tile Invert (Flowline) Elevations | | |
| Point | Invert (ft) | Distance from top of timbers 980.55 (INCHES) |
| A | 978.63 | 23.04 |
| B | 978.19 | 28.32 |
| C | 978.01 | 30.43 |
| D | 977.81 | 32.88 |
| E | 978.63 | 23.04 |
| F | 978.63 | 23.04 |
| G | 978.63 | 23.04 |
| H | 977.25 | 39.60 |

| Drain Tile Lengths & Slopes | | | |
|-----------------------------------|----|-------------|-----------|
| from intersection to intersection | | | |
| From | To | Length (ft) | Slope (%) |
| A | B | 35.43 | -1.24 |
| B | C | 14.14 | -1.24 |
| C | D | 15.77 | -1.30 |
| D | H | 45.84 | -1.22 |
| E | B | 55.72 | -1.10 |
| F | D | 49.88 | -1.64 |
| G | C | 54.34 | -1.13 |

Wexford Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract #7930
Date Revised: 3/15/2017

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:
Proposed: Proj.dwg
Proposed: Wexford_Survey2016-06-06.dwg

| Op | Material | Item | From Surface Model | To Surface Model | Area (sq ft) | Depth (ft) | Unfac-tored Volume (cu yd) | Unfac-tored Volume (cu yd) | Expansion Factor (%) | Factored (Uncom-pacted) Volume (cu yd) |
|------------------------------|---|---|--------------------|------------------|--------------|------------|----------------------------|----------------------------|----------------------|--|
| Asphalt to Asphalt | Asphalt Excavate | Remove estimated 3in asphalt | n/a | n/a | 302 | 0.25 | 76 | 2.8 | 0% | 2.8 |
| Asphalt to Asphalt | Gravel (Clean) Excavate | Remove estimated 4in clean gravel base | n/a | n/a | 302 | 0.33 | 101 | 3.7 | 0% | 3.7 |
| Asphalt to Asphalt | Gravel (Dirty) Excavate | Remove estimated 2in mixed gravel/subsoil | n/a | n/a | 302 | 0.17 | 50 | 1.9 | 0% | 1.9 |
| Asphalt to Asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 302 | varies | 1 | 0.0 | 0% | 0.0 |
| Asphalt to Asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 302 | varies | -2 | -1.9 | 0% | -1.9 |
| Asphalt to Asphalt | Gravel (for Pavement) Place | Place 9in gravel base out to 6in from pavement edge | n/a | n/a | 302 | -0.75 | -227 | -8.4 | 0% | -8.4 |
| Asphalt to Asphalt | Asphalt Place | Place 3in asphalt | n/a | n/a | 344 | -0.25 | -81 | -2.9 | 0% | -2.9 |
| Asphalt to Asphalt | Topsoil Place | Place 3in topsoil over 6in wide gravel edge | n/a | n/a | 38 | -0.25 | -15 | -0.5 | 0% | -0.5 |
| Asphalt to Asphalt | Asphalt Excavate | Remove estimated 3in asphalt | n/a | n/a | 122 | 0.25 | 31 | 1.1 | 0% | 1.1 |
| Asphalt to Grass | Gravel (Clean) Excavate | Remove estimated 4in clean gravel base | n/a | n/a | 122 | 0.33 | 41 | 1.5 | 0% | 1.5 |
| Asphalt to Grass | Gravel (Dirty) Excavate | Remove estimated 2in mixed gravel/subsoil | n/a | n/a | 122 | 0.17 | 20 | 0.8 | 0% | 0.8 |
| Asphalt to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-6in | 122 | varies | 0 | 0.0 | 0% | 0.0 |
| Asphalt to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-6in | 122 | varies | -9 | -1.8 | 0% | -1.8 |
| Asphalt to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 122 | 0.50 | 61 | 2.3 | 0% | 2.3 |
| Asphalt to Play Surface | Asphalt Excavate | Remove estimated 3in asphalt | n/a | n/a | 18 | 0.25 | 4 | 0.2 | 0% | 0.2 |
| Asphalt to Play Surface | Gravel (Clean) Excavate | Remove estimated 4in clean gravel base | n/a | n/a | 18 | 0.33 | 6 | 0.2 | 0% | 0.2 |
| Asphalt to Play Surface | Gravel (Dirty) Excavate | Remove estimated 2in mixed gravel/subsoil | n/a | n/a | 18 | 0.17 | 3 | 0.1 | 0% | 0.1 |
| Asphalt to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 18 | varies | 0 | 0.0 | 0% | 0.0 |
| Asphalt to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 18 | varies | 0 | 0.0 | 0% | 0.0 |
| Asphalt to Play Surface | Asphalt Place | Place 3in wood mulch play surface | n/a | n/a | 18 | -1.00 | -18 | -0.7 | 0% | -0.7 |
| Concrete to Concrete | Concrete Excavate | Remove 5in concrete | n/a | n/a | 31 | 0.42 | 13 | 0.5 | 0% | 0.5 |
| Concrete to Grass | Gravel (Clean) Excavate | Remove estimated 4in clean gravel base | n/a | n/a | 31 | 0.33 | 10 | 0.4 | 0% | 0.4 |
| Concrete to Grass | Gravel (Dirty) Excavate | Remove estimated 2in mixed gravel/subsoil | n/a | n/a | 31 | 0.17 | 5 | 0.2 | 0% | 0.2 |
| Concrete to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-11in | Pro-6in | 31 | varies | 0 | 0.0 | 0% | 0.0 |
| Concrete to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-11in | Pro-6in | 31 | varies | -12 | -0.5 | 0% | -0.5 |
| Concrete to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 31 | -0.50 | -16 | -0.6 | 0% | -0.6 |
| Concrete to Play Surface | Concrete Excavate | Remove 5in concrete | n/a | n/a | 31 | 0.42 | 13 | 0.5 | 0% | 0.5 |
| Concrete to Play Surface | Gravel (Clean) Excavate | Remove estimated 4in clean gravel base | n/a | n/a | 31 | 0.33 | 10 | 0.4 | 0% | 0.4 |
| Concrete to Play Surface | Gravel (Dirty) Excavate | Remove estimated 2in mixed gravel/subsoil | n/a | n/a | 31 | 0.17 | 5 | 0.2 | 0% | 0.2 |
| Concrete to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-11in | Pro-12in | 31 | varies | 0 | 0.0 | 0% | 0.0 |
| Concrete to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-11in | Pro-12in | 31 | varies | -38 | -1.4 | 0% | -1.4 |
| Concrete to Play Surface | Play Surface Place | Place 12in wood mulch play surface | n/a | n/a | 31 | -1.00 | -31 | -1.2 | 0% | -1.2 |
| Grass to Asphalt | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 188 | 0.30 | 54 | 3.5 | 0% | 3.5 |
| Grass to Asphalt | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 188 | varies | 20 | 0.7 | 0% | 0.7 |
| Grass to Asphalt | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 188 | varies | -1 | 0.0 | 0% | 0.0 |
| Grass to Asphalt | Gravel (Path) Place | Place 9in gravel base, out to 6in from asphalt edge | n/a | n/a | 188 | -0.75 | -141 | -5.2 | 0% | -5.2 |
| Grass to Asphalt | Asphalt Place | Place 3in asphalt | n/a | n/a | 138 | -0.25 | -32 | -1.2 | 0% | -1.2 |
| Grass to Asphalt | Topsoil Place | Place 3in topsoil on 6in wide gravel edge | n/a | n/a | 38 | -0.25 | -15 | -0.5 | 0% | -0.5 |
| Grass to Concrete | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 54 | 0.50 | 27 | 1.0 | 0% | 1.0 |
| Grass to Concrete | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-11in | 54 | varies | 0 | 0.0 | 0% | 0.0 |
| Grass to Concrete | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-11in | 54 | varies | -78 | -2.9 | 0% | -2.9 |
| Grass to Concrete | Gravel (for concrete edge) Place | Place 6in gravel base out to 6in from pavement edge | n/a | n/a | 54 | -0.50 | -27 | -1.0 | 0% | -1.0 |
| Grass to Concrete | Concrete Place | Place 5in concrete | n/a | n/a | 40 | -0.42 | -16 | -0.6 | 0% | -0.6 |
| Grass to Concrete | Subsoil Place | Place 6in topsoil over 6in wide gravel edge | n/a | n/a | 14 | -0.50 | -7 | -0.3 | 0% | -0.3 |
| Grass to Grass | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 2522 | 0.30 | 757 | 26.7 | 0% | 26.7 |
| Grass to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-6in | 2522 | varies | 7 | 0.3 | 0% | 0.3 |
| Grass to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-6in | 2522 | varies | -1084 | -40 | 0% | -40 |
| Grass to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 2522 | 0.50 | 1261 | 46.7 | 0% | 46.7 |
| Grass to Play Surface | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 1030 | 0.50 | 515 | 19.2 | 0% | 19.2 |
| Grass to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 1030 | varies | 401 | 14.8 | 0% | 14.8 |
| Grass to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 1030 | varies | -108 | -4.0 | 0% | -4.0 |
| Grass to Play Surface | Play Surface Place | Place 12in wood mulch play surface | n/a | n/a | 1030 | -1.00 | -1030 | -38.4 | 0% | -38.4 |
| Grass to Timbers | Topsoil Excavate | Strip 6in topsoil | n/a | n/a | 87 | 0.50 | 33 | 1.2 | 0% | 1.2 |
| Grass to Timbers | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-6in | Pro-12in | 87 | varies | 10 | 0.4 | 0% | 0.4 |
| Grass to Timbers | Subsoil Place | Fill subsoil to proposed subgrade | Ex-6in | Pro-12in | 87 | varies | -35 | -0.9 | 0% | -0.9 |
| Grass to Timbers | Border Timbers Place (placeholder volume) | Place 6in ground border timbers (placeholder volume to balance volume comp) | n/a | n/a | 87 | -1.00 | -87 | -2.5 | 0% | -2.5 |
| Play Surface to Grass | Play Surface Excavate | Remove existing play surface, estimated depth 11in | n/a | n/a | 1368 | 1.42 | 1980 | 73.4 | 0% | 73.4 |
| Play Surface to Grass | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-6in | 1368 | varies | 0 | 0.0 | 0% | 0.0 |
| Play Surface to Grass | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-6in | 1368 | varies | -1730 | -63.3 | 0% | -63.3 |
| Play Surface to Grass | Topsoil Place | Place 6in topsoil | n/a | n/a | 1368 | 0.50 | 684 | 25.0 | 0% | 25.0 |
| Play Surface to Play Surface | Play Surface Excavate | Remove existing play surface, estimated depth 11in | n/a | n/a | 5681 | 1.42 | 8082 | 294.5 | 0% | 294.5 |
| Play Surface to Play Surface | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 5681 | varies | 0 | 0.0 | 0% | 0.0 |
| Play Surface to Play Surface | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 5681 | varies | -5165 | -191.3 | 0% | -191.3 |
| Play Surface to Play Surface | Play Surface Place | Place 12in wood mulch play surface | n/a | n/a | 3681 | -1.00 | -3681 | -131.5 | 0% | -131.5 |
| Play Surface to Timbers | Play Surface Excavate | Remove existing play surface, estimated depth 11in | n/a | n/a | 32 | 1.42 | 45 | 1.7 | 0% | 1.7 |
| Play Surface to Timbers | Subsoil Excavate | Cut subsoil to proposed subgrade | Ex-17in | Pro-12in | 32 | varies | 0 | 0.0 | 0% | 0.0 |
| Play Surface to Timbers | Subsoil Place | Fill subsoil to proposed subgrade | Ex-17in | Pro-12in | 32 | varies | -41 | -1.5 | 0% | -1.5 |
| Play Surface to Timbers | Border Timbers Place (placeholder volume) | Place 6in ground border timbers (placeholder volume to balance volume comp) | n/a | n/a | 32 | -1.00 | -32 | -1.2 | 0% | -1.2 |

Wexford Park Playground - Earthwork Quantities

City of Madison, WI Public Works Contract #7930

Date Revised: 3/15/2017

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 | -3.5 |
| Border Timbers Place (placeholder volume) | -3.6 |
| Gravel (for Pavement) Place | -8.4 |
| Play Surface Excavate | 389.6 |
| Play Surface Place | -261.1 |
| Subsoil Excavate | 16.3 |
| Subsoil Place | -309.9 |
| Topsoil Excavate | 71.6 |
| Topsoil Place | -76.8 |
| Concrete Place | -0.6 |
| Gravel (Path) Place | -5.2 |
| Grand Total | -191.7 |

| Bid Item | Quantity | Units | Relation to Table Above |
|---|----------|-------|--|
| 20101 Excavation Cut | 88 | CY | = Subsoil Excavate + Topsoil Excavate |
| 20103 Excavation Cut - Pea Gravel | 89 | CY | = Play Surface Excavate |
| 20201 Fill | 67 | CY | = Subsoil Excavate + Subsoil Place |
| 20221 Topsoil | 460 | SY | = (Topsoil Place)/-.167 |
| 40102 Crushed Aggregate Base Course Gradation No. 2 & 3 | 27 | tons | =(Gravel for Pavement Place +Gravel (Path) Place * -2 ton/cubic yard |
| 40201 3" Depth HMA Pavement Type E-0.3 | 7.5 | tons | = Asphalt Place * -2.16 ton/cubic yard |
| 90004 Playground Surfacing - Wood Mulch | 287 | CY | = Play Surface Place * -1.10 |

City of Madison
Department of Public Works
PARKS DIVISION

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



PROJECT:

*2017 PARK
PLAYGROUNDS -
GROUP 2*

*WEXFORD PARK
1201 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

Drawn by: KK 04-14-2017

Approved by: xx-xx-xxxx

PUBLIC WORKS PROJECT #:

7930

SHEET TITLE:

*DESIGN
COMPUTATIONS*

SHEET NUMBER:

6.5

PROJECT:
**2017 PARK
 PLAYGROUNDS -
 GROUP 2**

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 | 04-14-2017 |
| | |
| | |
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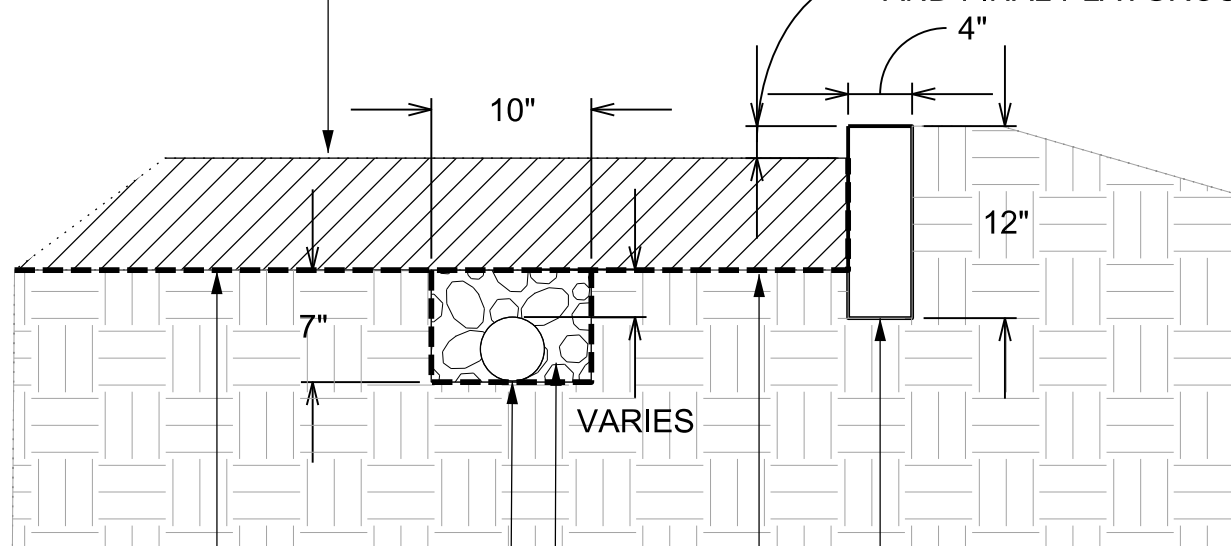
PUBLIC WORKS PROJECT #:
7930

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

SHEET NUMBER:
7.1

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
 - MIN. 12" FROM FROM PLAYGROUND SURFACE
 FINISHED GRADE FOR WOOD MULCH

PROPOSED PLAYGROUND BORDER
 TIMBERS PER MANUFACTURER'S
 INSTALLATION SPECIFICATIONS

PROJECT:
*2017 PARK
 PLAYGROUNDS -
 GROUP 2*

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/KK | 04-15-2016 |
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| | |

PUBLIC WORKS PROJECT #:
7930

SHEET TITLE:
**PAVEMENT EDGE
 AT PLAYGROUND**

SHEET NUMBER:
7.2

