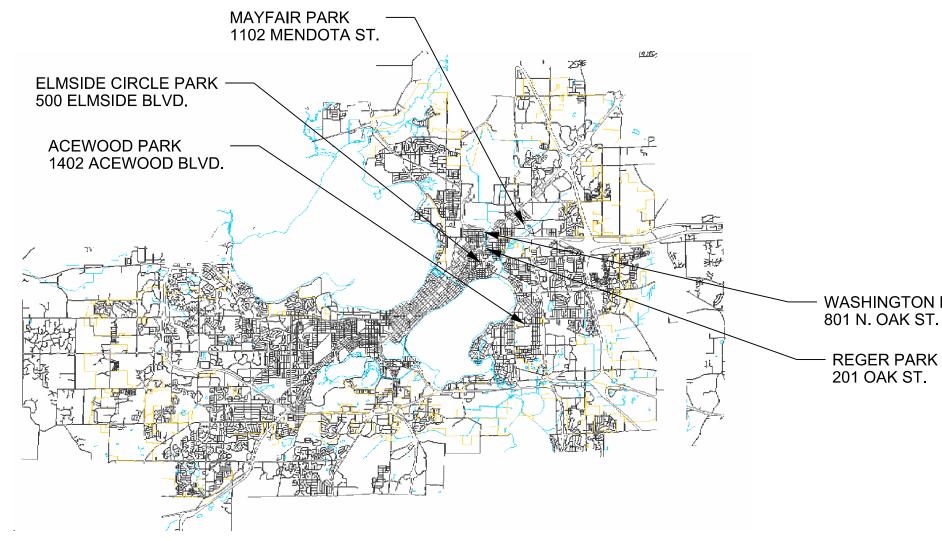
### 2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2 CONTRACT 8172 ACEWOOD PARK - MUNIS # 17370 -51 -130 ELMSIDE CIRCLE PARK - MUNIS # 17371 -51 -130 MAYFAIR PARK - MUNIS # 17373 -51 -130 REGER PARK - MUNIS # 17369 -51 -130

WASHINGTON MANOR PARK - MUNIS # 17506 -51 -130





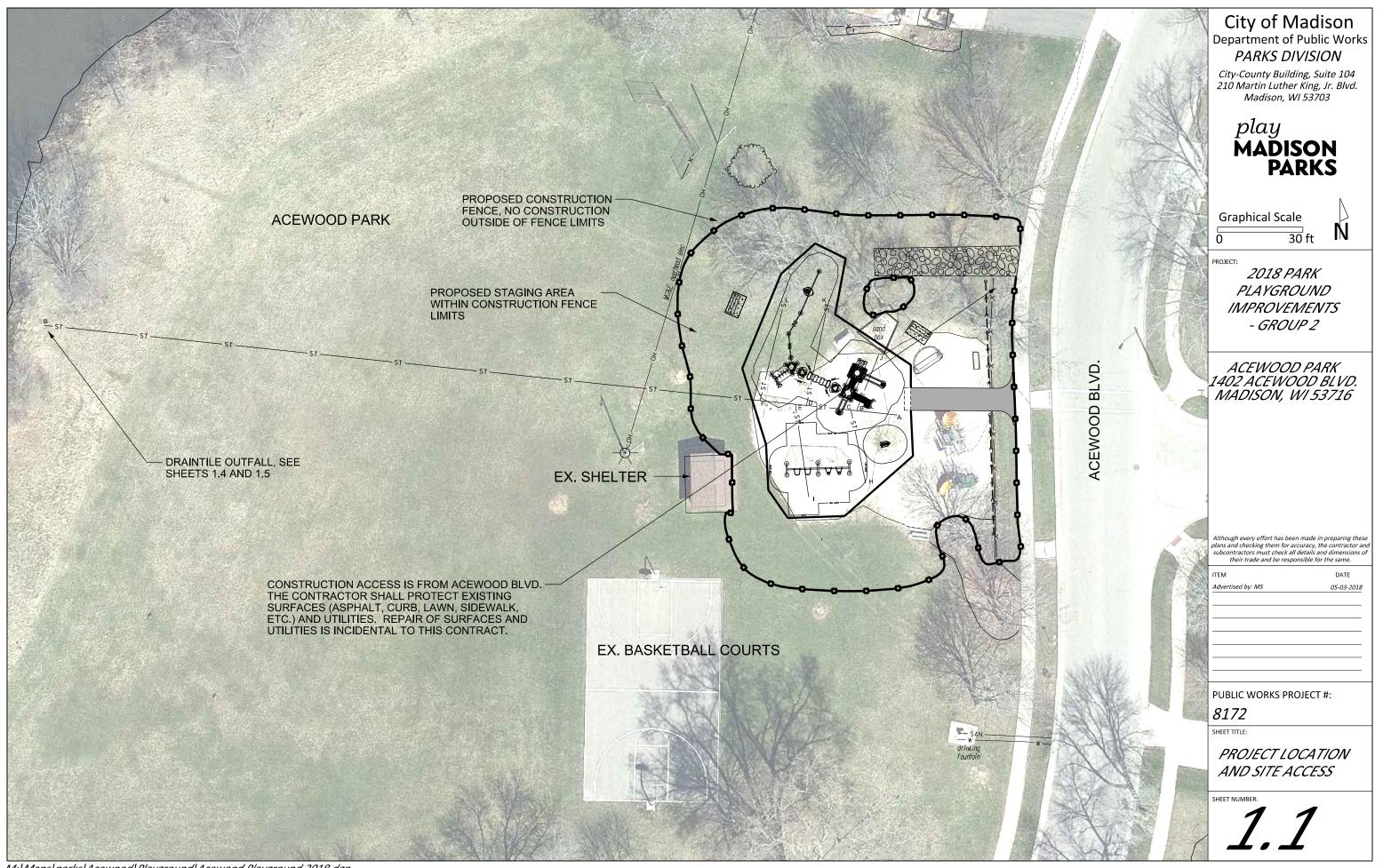
# WASHINGTON MANOR PARK

# 2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2 CONTRACT 8172

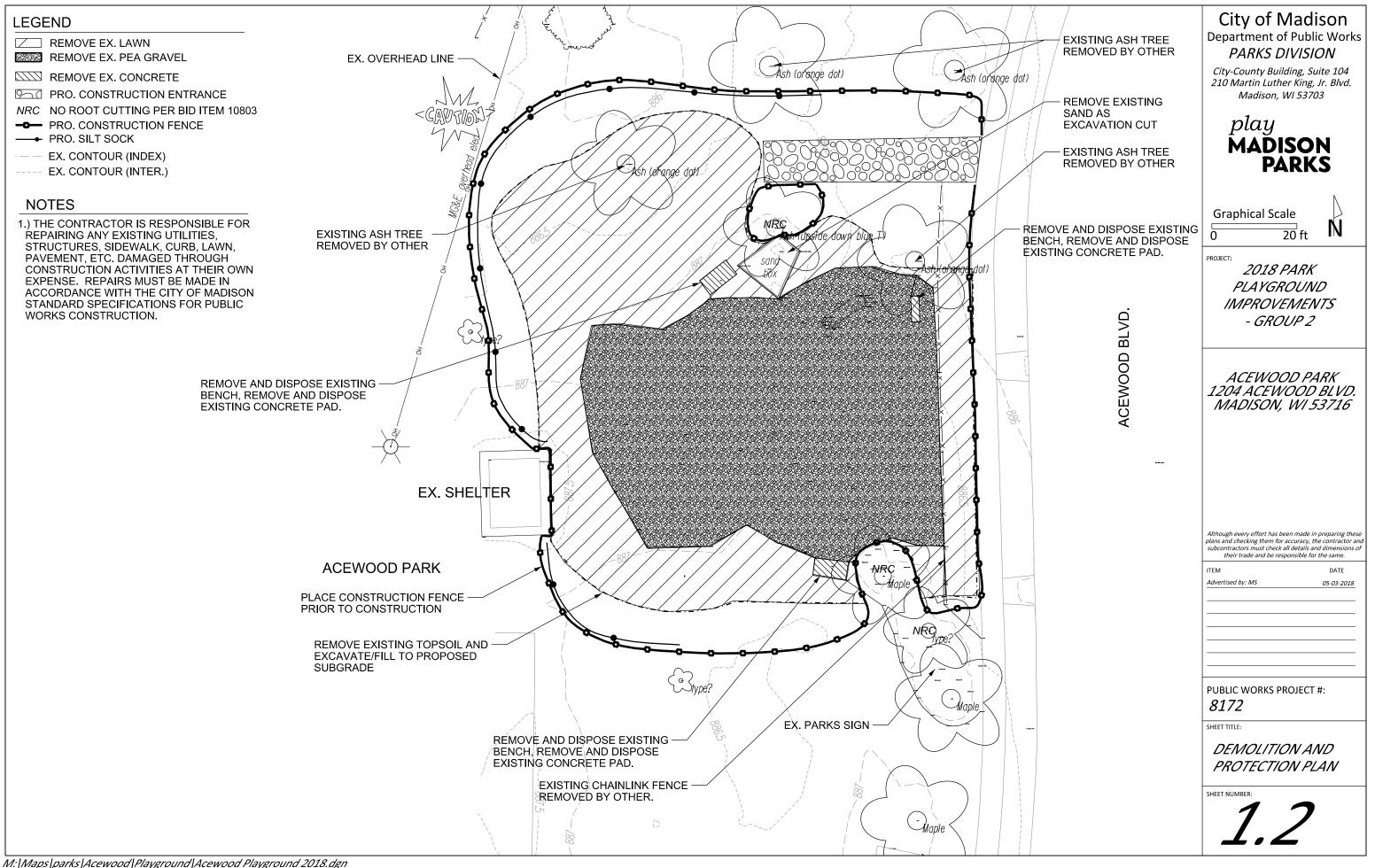
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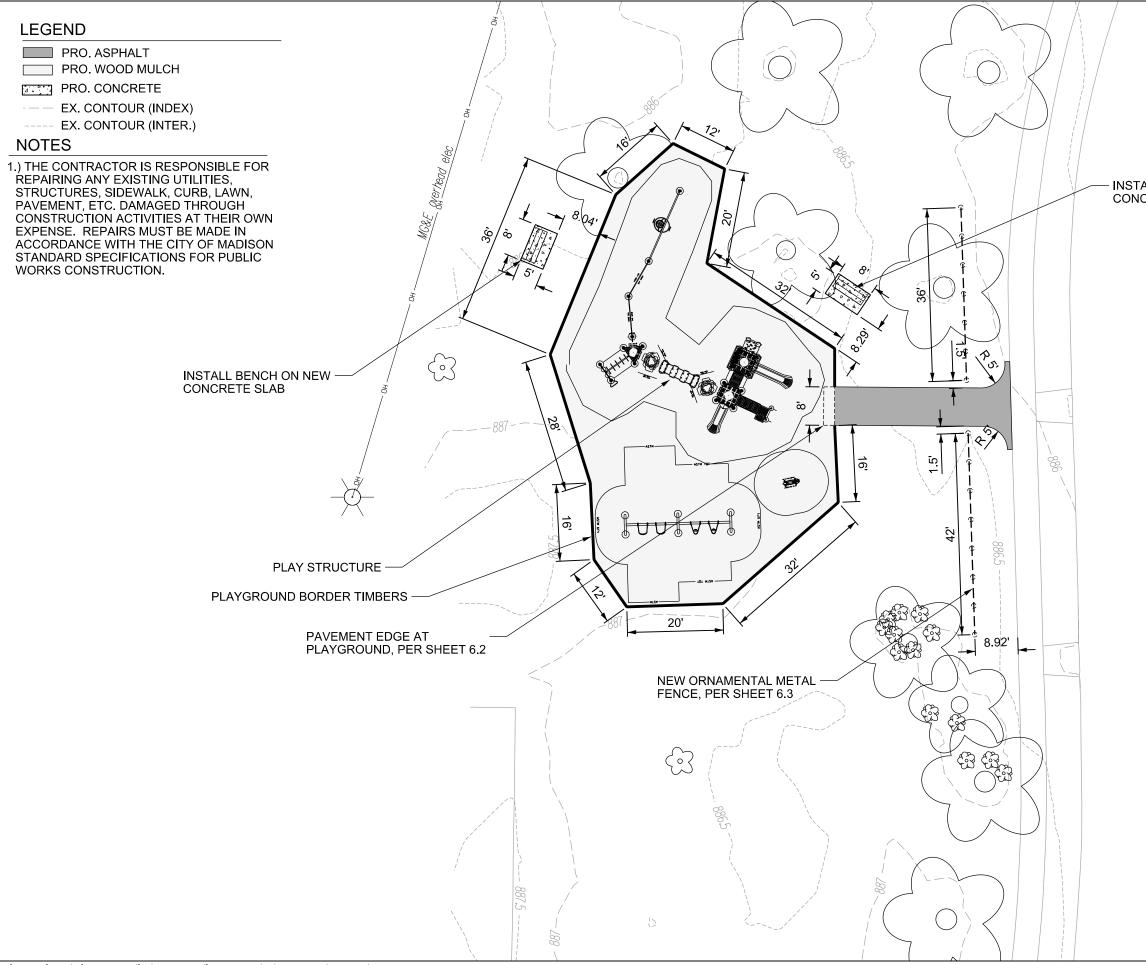
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| Mayfair Park-     | Drai                                                                                                                                                                                                                                                                                                                                   | n Tile Scheo                                                                                                                                                                                                                                                                                                                                                                     | dules                                                                                                                                                                                                                                                                                  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| Mayfair Park-     | Desi                                                                                                                                                                                                                                                                                                                                   | ign Comput                                                                                                                                                                                                                                                                                                                                                                       | ations                                                                                                                                                                                                                                                                                 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|                   | Acewood Park-<br>Acewood Park-<br>Acewood Park-<br>Acewood Park-<br>Acewood Park-<br>Acewood Park-<br>Elmside Circle Pa<br>Elmside Circle Pa<br>Elmside Circle Pa<br>Elmside Circle Pa<br>Elmside Circle Pa<br>Elmside Circle Pa<br>Kayfair Park-<br>Mayfair Park-<br>Mayfair Park-<br>Mayfair Park-<br>Mayfair Park-<br>Mayfair Park- | Acewood Park-DenAcewood Park-SiteAcewood Park-DraiAcewood Park-DraiAcewood Park-DesiAcewood Park-DesiAcewood Park-SiteElmside Circle Park-Elmside Circle Park-Elmside Circle Park-Elmside Circle Park-Elmside Circle Park-SiteMayfair Park-DenMayfair Park-SiteMayfair Park-SiteMayfair Park-DenMayfair Park-DenMayfair Park-DenMayfair Park-DenMayfair Park-DenMayfair Park-Den | Acewood Park-<br>Acewood Park-Demolition and<br>Site PlanAcewood Park-<br>Acewood Park-Grading and Erd<br>Drain Tile Sched<br>Drain ComputAcewood Park-<br>Acewood Park-Design Comput<br>DemolitionAcewood Park-<br>Acewood Park-Project Loc<br>Site PlanElmside Circle 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Schedules </td |

|                                   | City of Madison<br>Department of Public Works<br>PARKS DIVISION<br>City-County Building, Suite 104<br>210 Martin Luther King, Jr. Blvd.<br>Madison, WI 53703<br>Play<br>MADISON<br>PARKS                                         |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                   | PROJECT:<br>2018 PARK<br>PLAYGROUND<br>IMPROVEMENTS<br>- GROUP 2                                                                                                                                                                 |
| e Access<br>on Plan<br>htrol Plan | Although every effort has been made in preparing these                                                                                                                                                                           |
|                                   | plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.         ITEM       DATE         Advertised by: MS       05-03-2018 |
|                                   | PUBLIC WORKS PROJECT #:<br>8172<br>Sheet title:                                                                                                                                                                                  |
|                                   | SHEET NUMBER:                                                                                                                                                                                                                    |



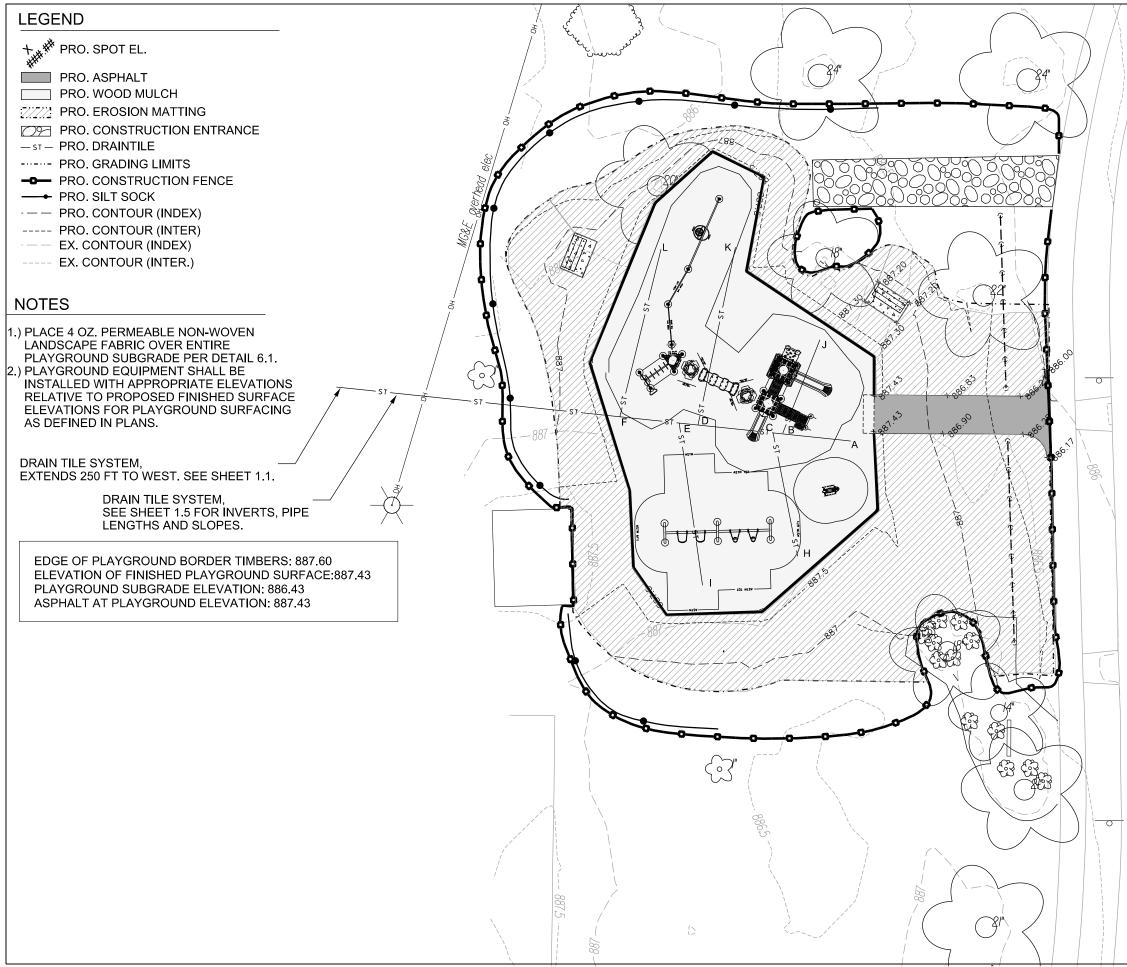
M:|Maps|parks|Acewood|Playground|Acewood Playground 2018.dgn





### INSTALL BENCH ON NEW CONCRETE SLAB







|       | Acewood Pa        | rk Playground                                      |              |
|-------|-------------------|----------------------------------------------------|--------------|
| Dra   | in Tile Invert (F |                                                    |              |
| Point | Invert (ft)       | Distance from top of<br>timbers 887.43<br>(INCHES) | Ahead length |
| А     | 885.84            | 19.1                                               | 14.2         |
| В     | 885.75            | 20.2                                               | 2.0          |
| С     | 885.74            | 20.3                                               | 15.7         |
| D     | 885.64            | 21.5                                               | 3.9          |
| Е     | 885.61            | 21.8                                               | 12.4         |
| F     | 885.53            | 22.8                                               | 243.1        |
| G     | 883.00            | 53.2                                               | 0.0          |
| Н     | 885.84            | 19.1                                               | 26.2         |
|       | 885.84            | 19.1                                               | 34.1         |
| J     | 885.84            | 19.1                                               | 20.9         |
| К     | 885.84            | 19.1                                               | 37.8         |
| L     | 885.84            | 19.1                                               | 35.9         |

| ]    | Drain Tile Lengths & Slopes       |             |           |            |  |  |  |  |  |  |
|------|-----------------------------------|-------------|-----------|------------|--|--|--|--|--|--|
| froi | from intersection to intersection |             |           |            |  |  |  |  |  |  |
| From | То                                | Length (ft) | Slope (%) | Pipe type  |  |  |  |  |  |  |
| А    | В                                 | 14.2        | -0.63     | Underdrain |  |  |  |  |  |  |
| В    | С                                 | 2.0         | -0.50     | Underdrain |  |  |  |  |  |  |
| С    | D                                 | 15.7        | -0.64     | Underdrain |  |  |  |  |  |  |
| D    | Е                                 | 3.9         | -0.77     | Underdrain |  |  |  |  |  |  |
| E    | F                                 | 12.4        | -0.64     | Underdrain |  |  |  |  |  |  |
| F    | G                                 | 253.0       | -1.00     | Underdrain |  |  |  |  |  |  |
| Н    | С                                 | 26.2        | -0.38     | Underdrain |  |  |  |  |  |  |
| I    | Е                                 | 34.1        | -0.67     | Underdrain |  |  |  |  |  |  |
| J    | В                                 | 20.9        | -0.43     | Underdrain |  |  |  |  |  |  |
| K    | D                                 | 37.8        | -0.53     | Underdrain |  |  |  |  |  |  |
| L    | F                                 | 35.9        | -0.86     | Underdrain |  |  |  |  |  |  |
|      | Total                             | 456.1       |           |            |  |  |  |  |  |  |

### City of Madison Department of Public Works PARKS DIVISION

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



PROJECT:





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 Advertised by: MR DATE 05-03-2018

PUBLIC WORKS PROJECT #:

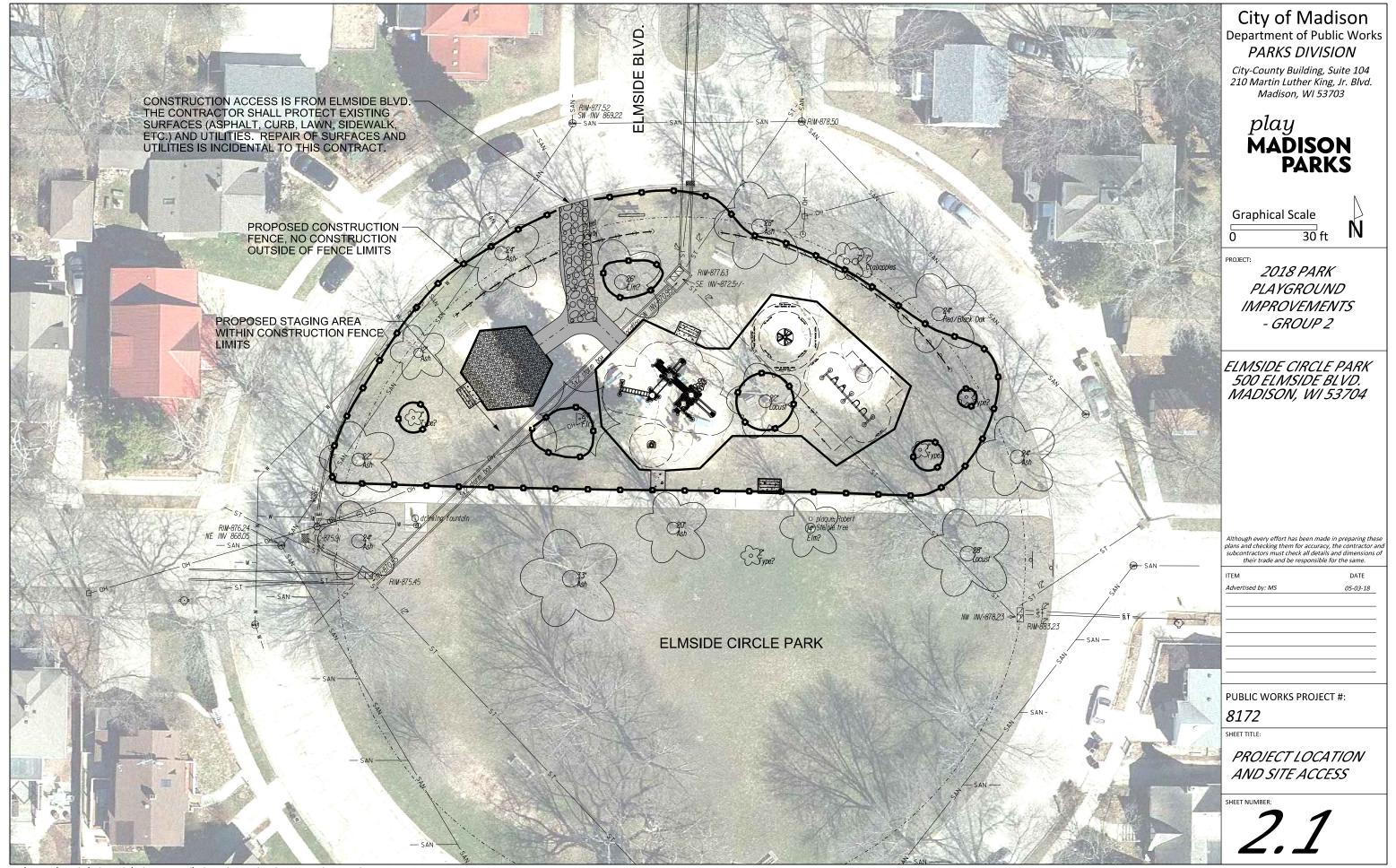
DRAIN TILE SCHEDULES

sheet NUMBER:

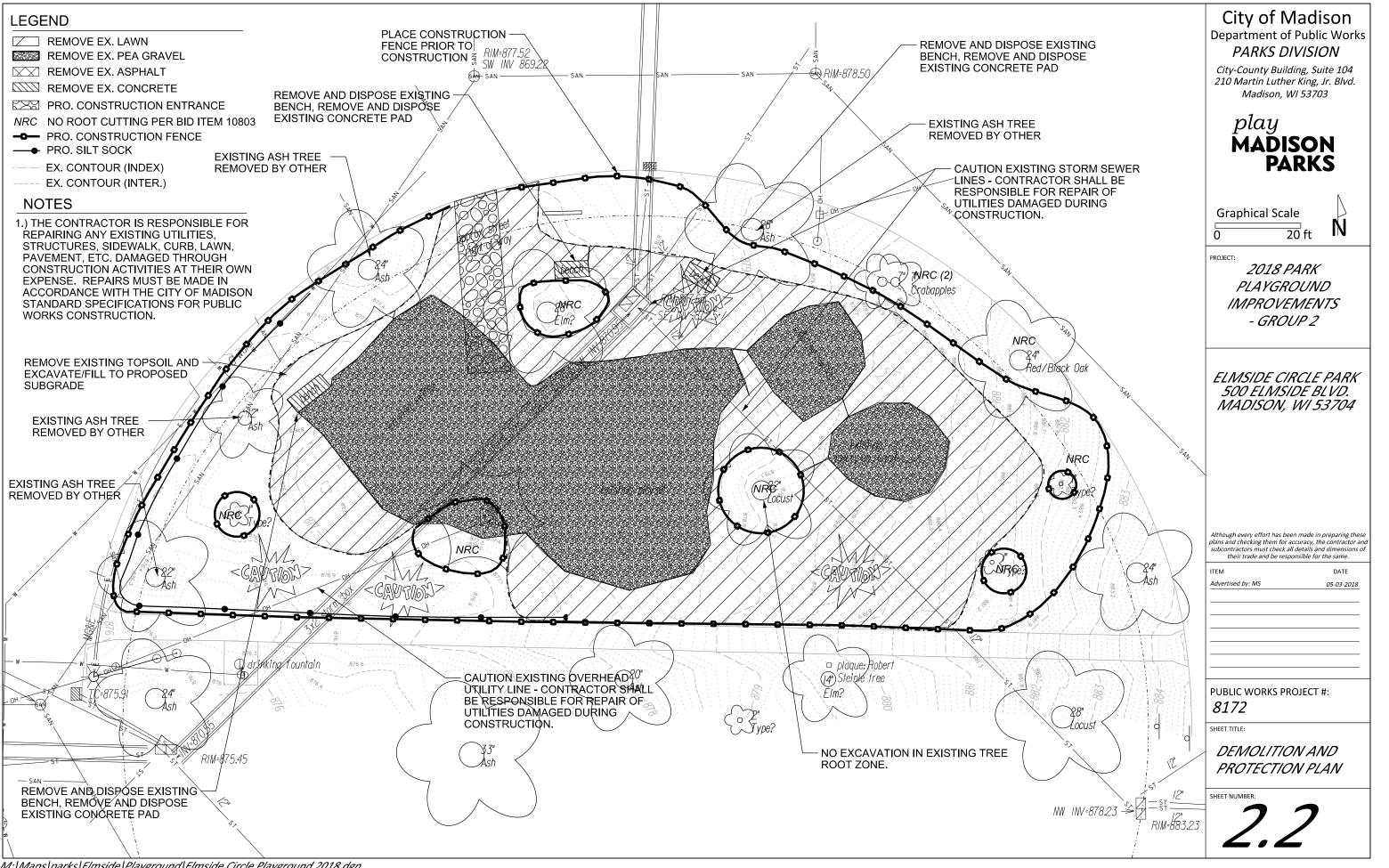
|        |                                     | rk Playground - Earth                                        | work Quantities                              |                 |                      |             |             |                 |                 |                |                   |                                                                                          |
|--------|-------------------------------------|--------------------------------------------------------------|----------------------------------------------|-----------------|----------------------|-------------|-------------|-----------------|-----------------|----------------|-------------------|------------------------------------------------------------------------------------------|
|        | Date Revised:                       | WI Public Works Contract<br>5/3/2018                         | 8                                            |                 |                      |             |             |                 |                 |                |                   |                                                                                          |
|        |                                     | 0,0,2010                                                     |                                              |                 |                      |             |             |                 |                 |                |                   |                                                                                          |
|        | Notes:                              |                                                              | <b>5</b> 11-                                 |                 |                      |             |             |                 |                 |                |                   |                                                                                          |
|        |                                     | are cuts, negative volumes<br>Il surface models (Digital Ter | are fills.<br>rrain Models) are used for com | putations or    | intended for         | r actual co | Instruction |                 |                 |                |                   |                                                                                          |
|        | not an parts of a                   | a sanace models (Digital Tel                                 | ram wouchs, are used for COII                |                 | intendeu 10          | actual CC   | and action  |                 |                 |                |                   |                                                                                          |
|        | Existing                            |                                                              |                                              |                 |                      |             |             |                 |                 |                |                   |                                                                                          |
|        | Proposed<br>Proposed                |                                                              |                                              |                 |                      |             |             |                 |                 |                |                   |                                                                                          |
| r      | FTOpOsed                            |                                                              |                                              |                 |                      |             |             |                 |                 |                |                   |                                                                                          |
|        |                                     |                                                              |                                              |                 |                      |             |             |                 |                 |                | Factored          |                                                                                          |
|        | 1                                   |                                                              |                                              | _               |                      |             |             | Unfac-          | Unfac-          | Expan-         | (Uncom-           |                                                                                          |
|        | I                                   |                                                              |                                              | From<br>Surface | To<br>Surface        | area        | depth       | tored<br>volume | tored<br>volume | sion<br>Factor | pacted)<br>Volume |                                                                                          |
| Sort C | Grp                                 | Material                                                     | Item                                         | Model           | Model                | (sq ft)     | (ft)        | (cu ft)         | (cu yd)         | (%)            | (cu yd)           |                                                                                          |
|        |                                     | Topsoil Excavate                                             | Strip 6in topsoil                            | n/a             | n/a                  | 3680        |             | 1840            |                 |                | 68.1              |                                                                                          |
|        | 0                                   | Subsoil Excavate                                             | Cut subsoil to proposed subgrade             | Ex-6in          | Pro-6in              | 3680        | varies      | 25              | 0.9             | 0%             | 0.9               |                                                                                          |
|        | Grass to Grass                      | Subson Excavate                                              | Fill subsoil to proposed                     | EX-OIII         | P10-011              | 3000        | Varies      | 23              | 0.9             | 070            | 0.8               |                                                                                          |
|        | Grass to Grass                      |                                                              | subgrade                                     | Ex-6in          | Pro-6in              | 3680        | varies      | -1072           | -39.7           |                | -39.7             |                                                                                          |
|        | Grass to Grass                      | Topsoil Place                                                | Place 6in topsoil                            | n/a             | n/a                  | 3680        | -0.50       | -1840           | -68.1           | I 0%           | -68.1             |                                                                                          |
|        | Play Surface to                     |                                                              | Remove existing play surface,                |                 |                      |             |             |                 |                 | 1              |                   |                                                                                          |
| '      | Grass                               | Play Surface Excavate                                        | estimated depth 17in                         | n/a             | n/a                  | 1971        | 1.42        | 2792            | 103.4           | 1 0%           | 103.4             |                                                                                          |
| I      | Play Surface to                     |                                                              | Fill subsoil to proposed                     |                 |                      |             |             |                 |                 | 0,0            |                   |                                                                                          |
|        | Grass                               | Subsoil Place                                                | subgrade                                     | Ex-17in         | Pro-6in              | 1971        | varies      | -2549           | -94.4           | 4 0%           | -94.4             |                                                                                          |
| F      | Play Surface to                     |                                                              | Dinas Cin tana "                             | - (-            | - (-                 | (07)        | 0.50        |                 |                 |                |                   |                                                                                          |
|        | Grass                               | Topsoil Place                                                | Place 6in topsoil                            | n/a             | n/a                  | 1971        | -0.50       | -985            | -36.5           | 5 0%           | -36.5             |                                                                                          |
| 1      | Play Surface to                     |                                                              | Remove existing play surface,                |                 |                      |             |             |                 |                 |                |                   |                                                                                          |
|        | Play Surface                        | Play Surface Excavate                                        | estimated depth 17in                         | n/a             | n/a                  | 2508        | 1.42        | 3553            | 131.6           | 6 0%           | 131.6             |                                                                                          |
| 1      | Play Surface to                     |                                                              | Cut subsoil to proposed                      |                 |                      |             |             |                 |                 |                |                   |                                                                                          |
|        | Play Surface<br>Play Surface to     | Subsoil Excavate                                             | subgrade<br>Fill subsoil to proposed         | Ex-17in         | Pro-12in             | 2508        | varies      | 0               | 0.0             | 0%             | 0.0               |                                                                                          |
| '      |                                     | Subsoil Place                                                | subgrade                                     | Ex-17in         | Pro-12in             | 2508        | varies      | -1967           | -72.8           | 3 0%           | -72.8             |                                                                                          |
| I      | Play Surface to                     |                                                              | Place 12in wood mulch play                   |                 |                      |             |             |                 |                 |                |                   |                                                                                          |
|        | Play Surface                        | Play Surface Place                                           | surface                                      | n/a             | n/a                  | 2508        | -1.00       | -2508           | -92.9           | 0%             | -756.0            | Acewood Park Playground - Earthwork Quantities                                           |
|        | Play Surface to                     |                                                              | Remove existing play surface,                |                 |                      |             |             |                 |                 |                |                   |                                                                                          |
| !      | Timbers                             | Play Surface Excavate                                        | estimated depth 17in                         | n/a             | n/a                  | 46          | 1.42        | 65              | 2.4             | 1 0%           | 2.4               | City of Madison, WI Public Works Contract                                                |
| F      | Play Surface to                     |                                                              | Cut subsoil to proposed                      |                 |                      |             |             |                 |                 |                |                   | Date Revised: 5/3/2018                                                                   |
|        | Timbers                             | Subsoil Excavate                                             | subgrade                                     | Ex-17in         | Pro-12in             | 46          | varies      | 0               | 0.0             | 0%             | 0.0               |                                                                                          |
| 1      | Play Surface to<br>Timbers          | Subsoil Place                                                | Fill subsoil to proposed<br>subgrade         | Ex-17in         | Pro-12in             | 46          | varies      | -42             | -1.6            | 5 0%           | 1.6               | Dervied from more detailed spreadsheet available from Parks Div                          |
|        | TITIDETS                            | Subsoli Flace                                                | Place playground border                      | EX-1710         | FI0-12III            | 40          | Valies      | -42             | -1.0            | 5 0%           | -1.0              |                                                                                          |
| 1      | Play Surface to                     | Border Timbers Place                                         | timbers (placeholder volume                  |                 |                      |             |             |                 |                 |                |                   | Computation Summary                                                                      |
|        | Timbers                             | (placeholder volume)                                         | to balance volume comps)                     | n/a             | n/a                  | 46          | -1.00       | -46             | -1.7            | 7 0%           | -23.4             |                                                                                          |
|        | Grass to Asphal                     | Topsoil Excavate                                             | Strip 6in topsoil                            | n/a             | n/a                  | 104         | 0.50        | 52              | 1.9             | 0%             | 1.9               | Positive volumes are cuts (material available), negative volumes are fills (material nee |
|        | Grass to Asphalt                    |                                                              | Cut subsoil to proposed                      | n/a             | ii/a                 | 104         | 0.50        | 52              | 1.5             | 070            | 1.3               |                                                                                          |
| c      | Grass to Asphalt                    | subsoil Excavate                                             | subgrade                                     | Ex-6in          | Pro-12in             | 104         | varies      | 54              | 2.0             | 0%             | 2.0               |                                                                                          |
|        |                                     |                                                              | Fill subsoil to proposed                     |                 |                      |             |             |                 |                 |                |                   | Row Labels Sum of Unfac-tored volume (cu yd)                                             |
| C      | Grass to Asphalt                    | Gravel (for Pavement)                                        | subgrade<br>Place 9in gravel base out to     | Ex-6in          | Pro-12in             | 104         | varies      | 0               | 0.0             | 0%             | 0.0               | Asphalt Place -3.3                                                                       |
| 0      | Grass to Asphalt                    |                                                              | 6in from pavement edge                       | n/a             | n/a                  | 104         | -0.75       | -78             | -2.9            | 0%             | -2.9              | -3.3 -3.3                                                                                |
|        |                                     |                                                              |                                              |                 |                      |             |             |                 |                 |                |                   | Croupl (for Poynment) Place                                                              |
| C      | Grass to Asphalt                    | Asphalt Place                                                | Place 3in asphalt                            | n/a             | n/a                  | 104         | -0.25       | -26             | -1.0            | 0%             | -1.0              |                                                                                          |
|        | Cross to Asphal                     | Topool Diogo                                                 | Place 3in topsoil over 6in                   | 2/0             | n/2                  |             | -0.25       | 0               | 0.0             | 004            |                   | Play Surface Excavate 250.6                                                              |
|        | Grass to Asphalt<br>Grass to        |                                                              | wide gravel edge                             | n/a             | n/a                  | 0           | -0.25       | 0               | 0.0             | 0%             | 0.0               | Play Surface Place -135.6                                                                |
|        | Timbers                             | Topsoil Excavate                                             | Strip 6in topsoil                            | n/a             | n/a                  | 44          | 0.50        | 22              | 0.8             | 3 0%           | 0.8               | Subsoil Excavate 3.9                                                                     |
|        | Grass to                            |                                                              | Fill subsoil to proposed                     |                 |                      |             |             |                 |                 |                |                   | Subsoil Place -225.9                                                                     |
|        | Timbers<br>Grass to                 | Subsoil Place                                                | subgrade<br>Cut subsoil to proposed          | Ex-6in          | Pro-12in             | 44          | varies      | 2               | 0.1             | I 0%           | 0.1               | Topsoil Excavate 92.2                                                                    |
|        | Timbers                             | Subsoil Excavate                                             | subgrade                                     | Ex-6in          | Pro-12in             | 44          | varies      | -14             | -0.5            | 5 0%           | -0.5              | Topsoil Place -104.6                                                                     |
|        |                                     |                                                              | Place playground border                      |                 |                      |             |             |                 |                 |                |                   |                                                                                          |
|        | Grass to                            | Border Timbers Place                                         | timbers (placeholder volume                  |                 |                      |             |             |                 |                 |                |                   | Asphalt Excavate 0.0                                                                     |
|        | Timbers                             | (placeholder volume)                                         | to balance volume comps)                     | n/a             | n/a                  | 44          | -1.00       | -44             | -1.6            | 6 0%           | -1.6              | Grand Total -135.9                                                                       |
|        | Play Surface to                     |                                                              | Remove existing play surface,                |                 |                      |             |             |                 |                 |                |                   | Reorganized into bid table items                                                         |
|        | Asphalt                             | Play Surface Excavate                                        | estimated depth 17in                         | n/a             | n/a                  | 251         | 1.42        | 356             | 13.2            | 2 0%           | 13.2              |                                                                                          |
| F      | Play Surface to                     |                                                              | Cut subsoil to proposed                      |                 |                      |             |             |                 |                 |                |                   | Bid Item Quantity                                                                        |
|        | Asphalt<br>Play Surface to          | Subsoil Excavate                                             | subgrade<br>Fill subsoil to proposed         | Ex-17n          | Pro-12in             | 251         | varies      | 0               | 0.0             | 0%             | 0.0               |                                                                                          |
| '      | Asphalt                             | Subsoil Place                                                | subgrade                                     | Ex-17in         | Pro-12in             | 251         | varies      | -211            | -7.8            | 3 0%           | -7.8              | 20101 Excavation Cut 343                                                                 |
| 1      |                                     | Gravel (for Pavement)                                        | Place 9in gravel base out to                 |                 |                      |             |             |                 |                 |                |                   | 20104 Evention Out Des Orevel                                                            |
|        | Asphalt                             | Place                                                        | 6in from pavement edge                       | n/a             | n/a                  | 251         | -0.75       | -189            | -7.0            | 0%             | -7.0              |                                                                                          |
| 1      | Play Surface to<br>Asphalt          | Asphalt Place                                                | Place 3in asphalt                            | n/a             | n/2                  | 251         | -0.25       | -63             | -2.3            | 3 0%           | 2.2               | 20201 Fill 222                                                                           |
|        | Play Surface to                     |                                                              | Place 3in topsoil over 6in                   | n/a             | n/a                  | 201         | -0.25       | -03             | -2.3            | 0%             | -2.3              | 20221 1005011 021                                                                        |
|        |                                     | Topsoil Place                                                | wide gravel edge                             | n/a             | n/a                  | 0           | -0.25       | 0               | 0.0             | 0%             | 0.0               | 40102 Crushed Aggregate Base Course                                                      |
|        |                                     |                                                              |                                              |                 |                      |             |             |                 |                 |                |                   | Gradation No. 2 & 3                                                                      |
| A      | Asphalt to Grass                    | Asphalt Excavate                                             | Excavate 12in asphalt                        | n/a             | n/a                  |             | 1.00        | 0               | 0.0             | 0%             | 0.0               | 10.0                                                                                     |
|        | Asphalt to Grass                    | Subsoil Excavate                                             | Cut subsoil to proposed subgrade             | Ex-12in         | Pro-6in              |             | varies      |                 | 0.0             | 0%             |                   | 10201 3" Donth HMA Bayoment Type E 0.2                                                   |
|        | , aprianto Grass                    |                                                              | Fill subsoil to proposed                     |                 | 10-011               |             | varies      |                 | 0.0             | 0%             |                   | 40201 3" Depth HMA Pavement Type E-0.3 6.7                                               |
| F      | Asphalt to Grass                    | Subsoil Place                                                | subgrade                                     | Ex-12in         | Pro-6in              |             | varies      |                 | 0.0             | 0%             | 0.0               |                                                                                          |
|        |                                     |                                                              |                                              |                 |                      |             |             |                 |                 |                |                   | Mulch 152                                                                                |
|        | Asphalt to Grass                    | Iopsoil Place                                                | Place 6in topsoil                            | n/a             | n/a                  |             | -0.50       | 0               | 0.0             | 0%             | 0.0               |                                                                                          |
| A      | Grass to                            | Topsoil Excavate                                             | Strip 6in topsoil                            | n/a             | n/a                  | 1153        | 0.50        | 577             | 21.4            | 4 0%           | 21.4              |                                                                                          |
| A      | Playsurface                         |                                                              |                                              |                 |                      | 1100        | 0.00        | 011             | 41.9            | 0.0            | 21.*              |                                                                                          |
| A      | Playsurface<br>Grass to             |                                                              | Cut subsoil to proposed                      |                 |                      |             |             |                 |                 |                |                   |                                                                                          |
| , A    | Grass to<br>Playsurface             | Subsoil Excavate                                             | Cut subsoil to proposed subgrade             | Ex-6in          | Pro-12in             | 1153        | varies      | 40              | 1.5             | 5 0%           | 1.5               |                                                                                          |
|        | Grass to<br>Playsurface<br>Grass to |                                                              | Cut subsoil to proposed                      |                 | Pro-12in<br>Pro-12in | 1153        |             | 40              |                 |                | -9.6              |                                                                                          |

M:|Maps|parks|Acewood|Playground|Acewood Playground 2018.dgn

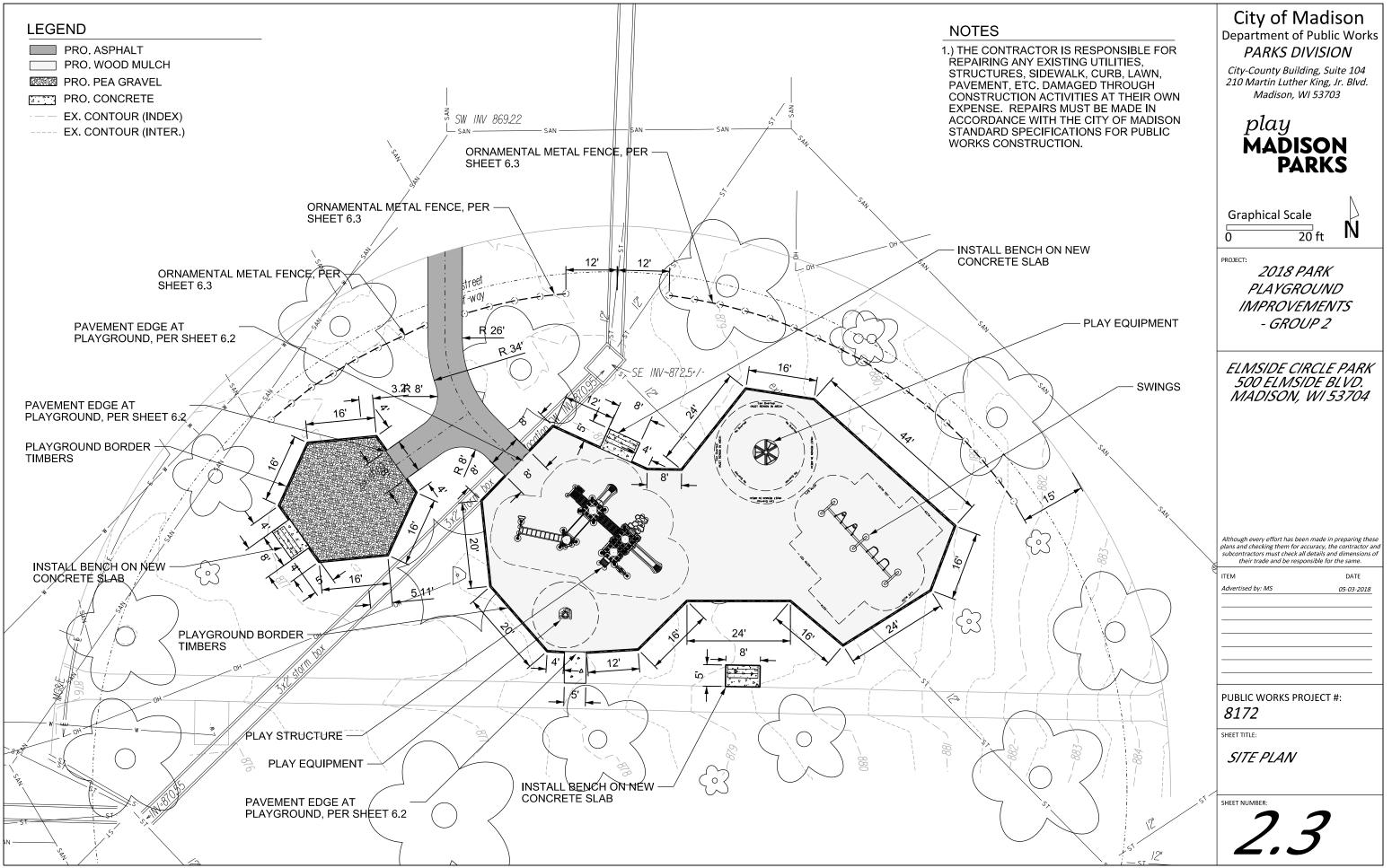
|        |                                                                                                                                       | City of Madison<br>Department of Public Works<br>PARKS DIVISION<br>City-County Building, Suite 104<br>210 Martin Luther King, Jr. Blvd.<br>Madison, WI 53703<br>Play<br>MADISON<br>PARKS                                                                                                |
|--------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                                                                                                                                       | PROJECT:<br>2018 PARK<br>PLAYGROUND<br>IMPROVEMENTS<br>- GROUP 2                                                                                                                                                                                                                        |
|        |                                                                                                                                       | ACEWOOD PARK<br>1204 ACEWOOD BLVD.<br>MADISON, WI 53716                                                                                                                                                                                                                                 |
|        |                                                                                                                                       |                                                                                                                                                                                                                                                                                         |
|        |                                                                                                                                       | Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.         ITEM       DATE         Advertised by: MR       05-03-2018 |
| s      | Relation to Table Above                                                                                                               |                                                                                                                                                                                                                                                                                         |
|        | =Subsoil Excavate + Topsoil Excavate<br>= Play Surface Excavate<br>= Subsoil Excavate - Subsoil Place<br>= Topsoil Place/.167 (depth) | PUBLIC WORKS PROJECT #:                                                                                                                                                                                                                                                                 |
| s<br>s | = (Gravel Place) * 2.0 ton/cubic yard<br>= Asphalt Place * 2.16 ton/cubic yard                                                        | SHEET TITLE:<br>DESIGN                                                                                                                                                                                                                                                                  |
|        | = Play Surface Place*1.10                                                                                                             | COMPUTATIONS<br>SHEET NUMBER:                                                                                                                                                                                                                                                           |
|        |                                                                                                                                       | 1.6                                                                                                                                                                                                                                                                                     |
|        |                                                                                                                                       | 1                                                                                                                                                                                                                                                                                       |



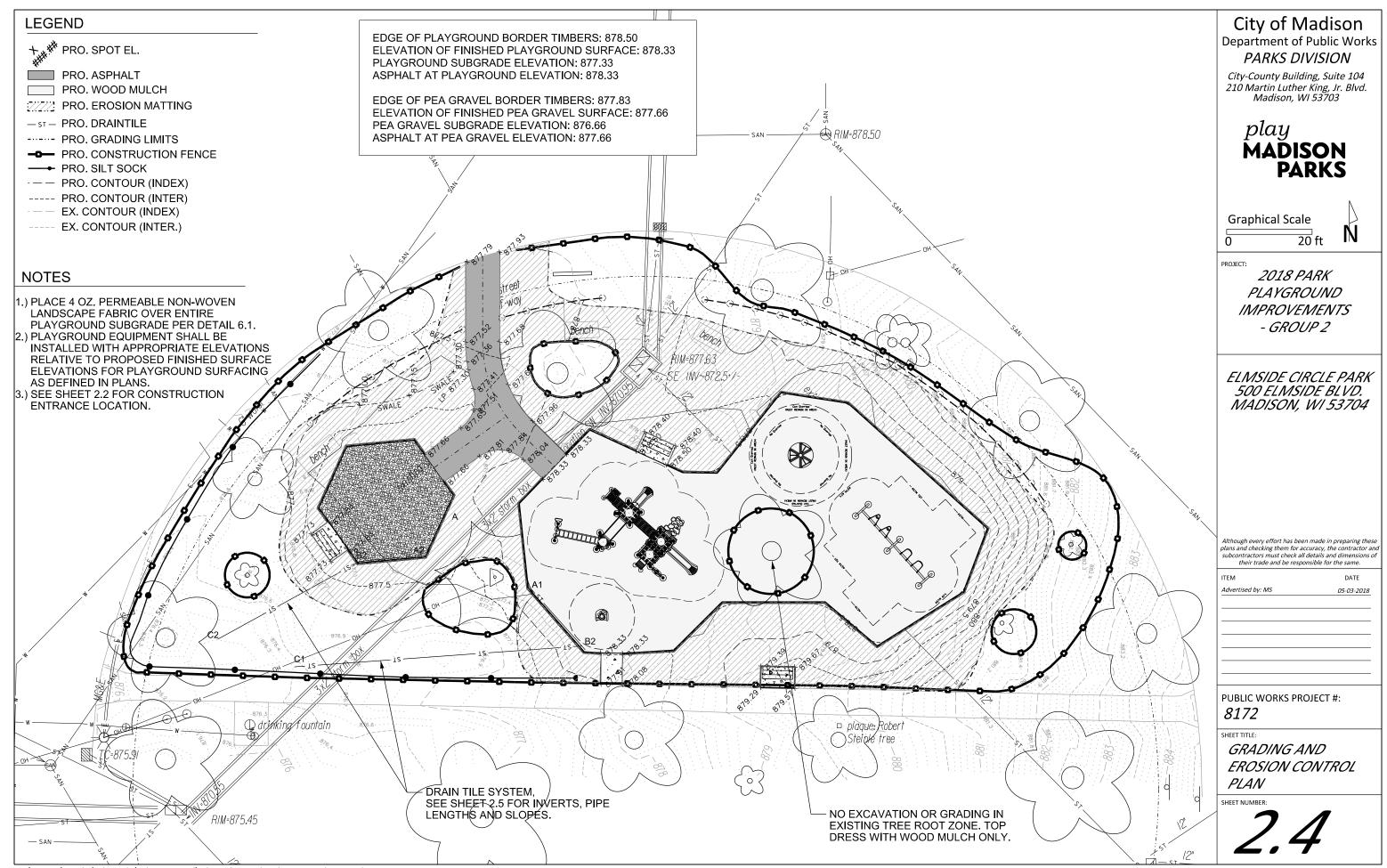
M: |Maps|parks|Elmside|Playground|Elmside Circle Playground 2018.dgn



M: |Maps|parks|Elmside|Playground|Elmside Circle Playground 2018.dgn



M:|Maps|parks|Elmside|Playground|Elmside Circle Playground 2018.dgn



M: |Maps|parks|Elmside|Playground|Elmside Circle Playground 2018.dgn

|       |                  |                 |          |           |           | City of Madican                                                                                                                                                                                                               |
|-------|------------------|-----------------|----------|-----------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | Elmside Par      | k Playground    |          |           |           | City of Madison                                                                                                                                                                                                               |
| Drai  | n Tile Invert (f | lowline) Elevat | ions     |           |           | Department of Public Works                                                                                                                                                                                                    |
|       |                  | Distance from   | n top of |           |           | PARKS DIVISION                                                                                                                                                                                                                |
| Point | Invert (ft)      | timber          | rs       |           |           | City-County Building, Suite 104                                                                                                                                                                                               |
|       |                  | 878.50(IN       | CHES)    | Ahead len | gth       | 210 Martin Luther King, Jr. Blvd.<br>Madison, WI 53703                                                                                                                                                                        |
| A1    | 877.00           | 18.0            |          | 18.5      |           |                                                                                                                                                                                                                               |
| B1    | 876.87           | 19.6            |          | 67.5      |           | play                                                                                                                                                                                                                          |
| C1    | 876.40           | 25.2            |          | 0.0       |           | MADISON                                                                                                                                                                                                                       |
|       |                  |                 |          |           |           |                                                                                                                                                                                                                               |
|       |                  | Distance from   | n top of |           |           | PARKS                                                                                                                                                                                                                         |
| Point | Invert (ft)      | timber          | rs       |           |           |                                                                                                                                                                                                                               |
|       |                  | 877.83(IN       | CHES)    | Ahead len | gth       |                                                                                                                                                                                                                               |
| A2    | 876.32           | 18.1            |          | 15.0      |           |                                                                                                                                                                                                                               |
| B2    | 876.29           | 26.5            |          | 37.9      |           |                                                                                                                                                                                                                               |
| C2    | 876.40           | 25.2            |          | 0.0       |           |                                                                                                                                                                                                                               |
|       |                  |                 |          |           |           | PROJECT:<br>2018 PARK                                                                                                                                                                                                         |
|       | Drain Tile Le    | ngths & Slope   | S        |           |           | PLAYGROUND                                                                                                                                                                                                                    |
| fro   | om intersecti    | on to intersec  | tion     |           |           | IMPROVEMENTS                                                                                                                                                                                                                  |
| From  | То               | Length (ft)     | Slope (% | 6) P      | ipe type  |                                                                                                                                                                                                                               |
| A1    | B1               | 18.5            | -0.70    |           | nderdrain | - GROUP 2                                                                                                                                                                                                                     |
| B1    | C1               | 67.5            | -0.70    |           | nderdrain |                                                                                                                                                                                                                               |
| DI    | Total            | 86.0            | 0.70     | 01        |           |                                                                                                                                                                                                                               |
|       | TOtal            | 80.0            |          |           |           | ELMSIDE CIRCLE PARK<br>500 ELMSIDE BLVD.                                                                                                                                                                                      |
|       |                  |                 |          |           |           | MADISON, WI 53704                                                                                                                                                                                                             |
|       |                  |                 |          |           |           | 101/12/13/2110, 101/35/104                                                                                                                                                                                                    |
|       |                  | ngths & Slope   |          |           |           |                                                                                                                                                                                                                               |
| fro   | om intersecti    | on to intersec  | tion     |           |           |                                                                                                                                                                                                                               |
| From  | То               | Length (ft)     | Slope (% | 6) P      | ipe type  |                                                                                                                                                                                                                               |
| A2    | B2               | 15.0            | -0.20    | Ur        | nderdrain |                                                                                                                                                                                                                               |
| B2    | C2               | 37.9            | 0.29     | Ur        | nderdrain |                                                                                                                                                                                                                               |
|       | Total            | 52.9            |          |           |           |                                                                                                                                                                                                                               |
|       |                  |                 |          |           |           |                                                                                                                                                                                                                               |
|       |                  |                 |          |           |           | Although every effort has been made in preparing these<br>plans and checking them for accuracy, the contractor and<br>subcontractors must check all details and dimensions of<br>their trade and be responsible for the same. |
|       |                  |                 |          |           |           | ITEM DATE                                                                                                                                                                                                                     |
|       |                  |                 |          |           |           | Advertised by: MR 05-03-2018                                                                                                                                                                                                  |
|       |                  |                 |          |           |           |                                                                                                                                                                                                                               |
|       |                  |                 |          |           |           |                                                                                                                                                                                                                               |
|       |                  |                 |          |           |           |                                                                                                                                                                                                                               |
|       |                  |                 |          |           |           |                                                                                                                                                                                                                               |
|       |                  |                 |          |           |           |                                                                                                                                                                                                                               |
|       |                  |                 |          |           |           |                                                                                                                                                                                                                               |
|       |                  |                 |          |           |           | PUBLIC WORKS PROJECT #:<br><i>8172</i>                                                                                                                                                                                        |
|       |                  |                 |          |           |           | SHEET TITLE:                                                                                                                                                                                                                  |
|       |                  |                 |          |           |           | DRAIN TILE SCHEDULES                                                                                                                                                                                                          |
|       |                  |                 |          |           |           |                                                                                                                                                                                                                               |
|       |                  |                 |          |           |           |                                                                                                                                                                                                                               |
|       |                  |                 |          |           |           | SHEET NUMBER:                                                                                                                                                                                                                 |
|       |                  |                 |          |           |           | 2.5                                                                                                                                                                                                                           |
|       |                  |                 |          |           |           |                                                                                                                                                                                                                               |
|       |                  |                 |          |           |           |                                                                                                                                                                                                                               |

|       |                   | k Playground    |          |           |           | City of Madison<br>Department of Public Worl                                                                                                                                                                        |
|-------|-------------------|-----------------|----------|-----------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dra   | in Tile Invert (F | lowline) Elevat |          |           |           | PARKS DIVISION                                                                                                                                                                                                      |
|       |                   | Distance from   |          |           |           |                                                                                                                                                                                                                     |
| Point | Invert (ft)       | timbe           |          |           |           | City-County Building, Suite 104<br>210 Martin Luther King, Jr. Blvd.                                                                                                                                                |
|       |                   | 878.50(IN       |          | Ahead len | -         | Madison, WI 53703                                                                                                                                                                                                   |
| A1    | 877.00            | 18.0            |          | 18.5      |           | 7                                                                                                                                                                                                                   |
| B1    | 876.87            | 19.6<br>25.2    |          | 67.5      |           | play                                                                                                                                                                                                                |
| C1    | 876.40            | 25.2            |          | 0.0       | )         | MADISON                                                                                                                                                                                                             |
|       |                   | Distance fro    | m ton of |           |           | PARKS                                                                                                                                                                                                               |
| Point | Invert (ft)       | timbe           | -        |           |           |                                                                                                                                                                                                                     |
| Unit  | invert (it)       | 877.83(IN       |          | Ahead ler | oth       |                                                                                                                                                                                                                     |
| A2    | 876.32            | 18.1            |          | 15.0      |           |                                                                                                                                                                                                                     |
| B2    | 876.29            | 26.5            |          | 37.9      |           |                                                                                                                                                                                                                     |
| C2    | 876.40            | 25.2            |          | 0.0       |           |                                                                                                                                                                                                                     |
|       |                   |                 |          |           |           | PROJECT:                                                                                                                                                                                                            |
|       | Drain Tile Le     | ngths & Slope   | S        |           |           | 2018 PARK                                                                                                                                                                                                           |
| fro   |                   | on to intersed  |          |           |           | PLAYGROUND                                                                                                                                                                                                          |
| From  | То                | Length (ft)     | Slope (% | 6) F      | Pipe type | IMPROVEMENTS                                                                                                                                                                                                        |
| A1    | B1                | 18.5            | -0.70    |           | nderdrain | - GROUP 2                                                                                                                                                                                                           |
| B1    | C1                | 67.5            | -0.70    |           | nderdrain |                                                                                                                                                                                                                     |
| DI    | Total             |                 | -0.70    |           | luerurain |                                                                                                                                                                                                                     |
|       | Iotai             | 86.0            |          |           |           | ELMSIDE CIRCLE PARI                                                                                                                                                                                                 |
|       |                   |                 |          |           |           | 500 ELMSIDE BLVD.<br>MADISON, WI 53704                                                                                                                                                                              |
|       |                   |                 |          |           |           | WADISON, WI 55704                                                                                                                                                                                                   |
|       |                   | ngths & Slope   |          |           |           |                                                                                                                                                                                                                     |
| fro   | om intersecti     | on to intersec  | tion     |           |           |                                                                                                                                                                                                                     |
| From  | То                | Length (ft)     | Slope (% | 6) P      | 'ipe type |                                                                                                                                                                                                                     |
| A2    | B2                | 15.0            | -0.20    | U         | nderdrain |                                                                                                                                                                                                                     |
| B2    | C2                | 37.9            | 0.29     | U         | nderdrain |                                                                                                                                                                                                                     |
|       | Total             | 52.9            |          |           |           |                                                                                                                                                                                                                     |
|       |                   | 02.0            |          |           |           |                                                                                                                                                                                                                     |
|       |                   |                 |          |           |           | Although every effort has been made in preparing th<br>plans and checking them for accuracy, the contractor<br>subcontractors must check all details and dimension.<br>their trade and be responsible for the same. |
|       |                   |                 |          |           |           | ITEM DATE                                                                                                                                                                                                           |
|       |                   |                 |          |           |           | Advertised by: MR 05-03-2016                                                                                                                                                                                        |
|       |                   |                 |          |           |           |                                                                                                                                                                                                                     |
|       |                   |                 |          |           |           |                                                                                                                                                                                                                     |
|       |                   |                 |          |           |           |                                                                                                                                                                                                                     |
|       |                   |                 |          |           |           |                                                                                                                                                                                                                     |
|       |                   |                 |          |           |           |                                                                                                                                                                                                                     |
|       |                   |                 |          |           |           |                                                                                                                                                                                                                     |
|       |                   |                 |          |           |           | PUBLIC WORKS PROJECT #:                                                                                                                                                                                             |
|       |                   |                 |          |           |           | 8172                                                                                                                                                                                                                |
|       |                   |                 |          |           |           | SHEET TITLE:                                                                                                                                                                                                        |
|       |                   |                 |          |           |           | DRAIN TILE SCHEDULE                                                                                                                                                                                                 |
|       |                   |                 |          |           |           |                                                                                                                                                                                                                     |
|       |                   |                 |          |           |           |                                                                                                                                                                                                                     |
|       |                   |                 |          |           |           |                                                                                                                                                                                                                     |
|       |                   |                 |          |           |           | SHEET NUMBER:                                                                                                                                                                                                       |
|       |                   |                 |          |           |           |                                                                                                                                                                                                                     |
|       |                   |                 |          |           |           | 2.5                                                                                                                                                                                                                 |

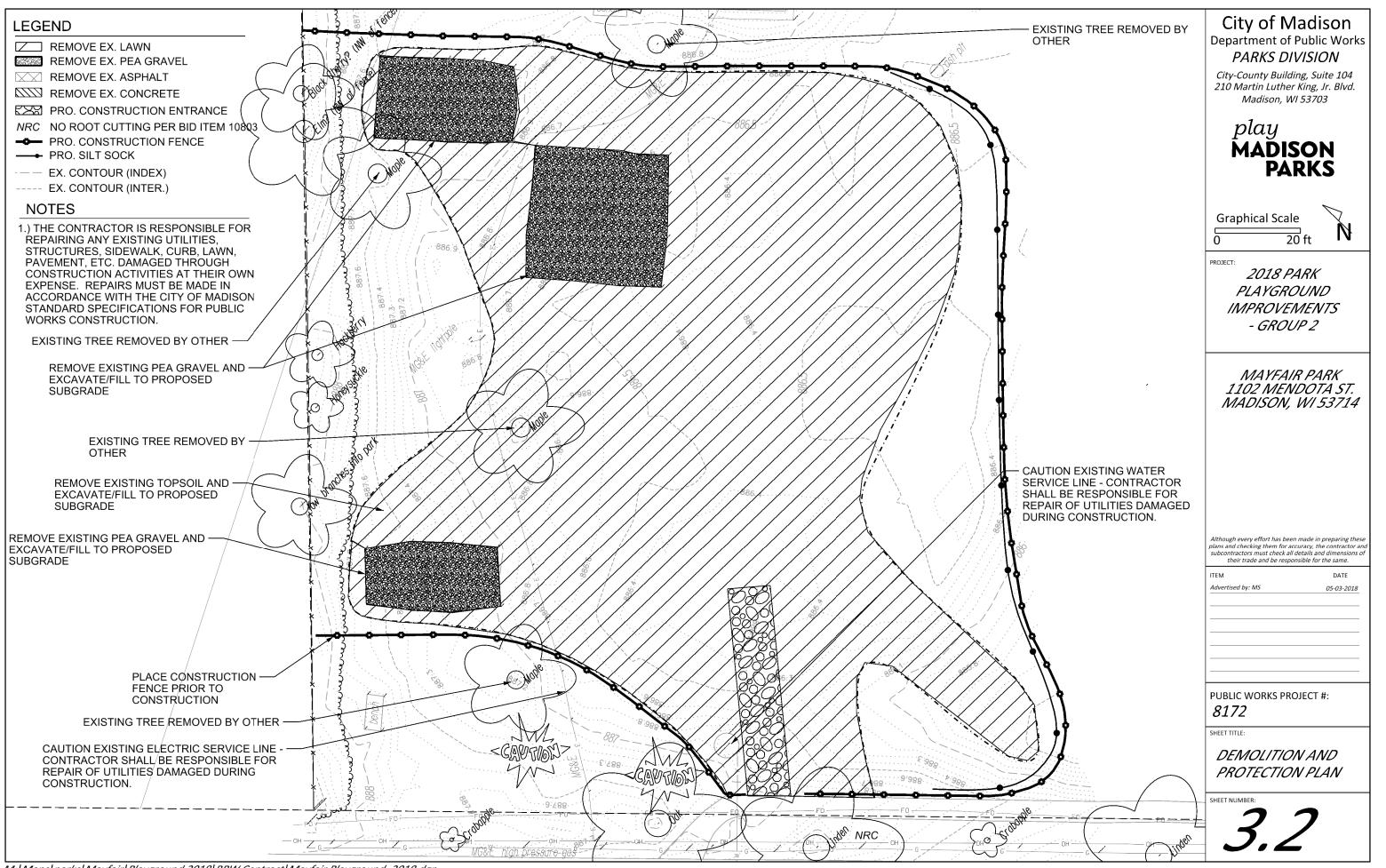
|     | City of Madison,<br>Date Revised:      | WI Public Works Contract<br>4/3/2018 |                                                                                      |                  |                  |                 |               |                   |                   |               |                    |
|-----|----------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------|------------------|------------------|-----------------|---------------|-------------------|-------------------|---------------|--------------------|
|     | Notes:                                 |                                      |                                                                                      |                  |                  |                 |               |                   |                   |               |                    |
|     | Positive volumes                       | are cuts, negative volumes           | are fills.                                                                           | 4-6              |                  |                 |               |                   |                   |               |                    |
|     |                                        | surrace models (Digital Ter          | rain Models) are used for comp                                                       | outations or i   | ntended for      | actual co       | nstruction    |                   |                   |               |                    |
|     | Existing<br>Proposed                   |                                      |                                                                                      |                  |                  |                 |               |                   |                   |               |                    |
|     | Proposed                               |                                      |                                                                                      |                  |                  |                 |               |                   |                   |               |                    |
|     |                                        |                                      |                                                                                      |                  |                  |                 |               | Unfac-            | Unfac-            | Expan-        | Factored<br>(Uncom |
|     |                                        |                                      |                                                                                      | From             | То               |                 |               | tored             | tored             | sion          | pacted)            |
| ort | Grp                                    | Material                             | ltem                                                                                 | Surface<br>Model | Surface<br>Model | area<br>(sq ft) | depth<br>(ft) | volume<br>(cu ft) | volume<br>(cu yd) | Factor<br>(%) | Volume<br>(cu yd)  |
|     | Grass to Grass                         | Topsoil Excavate                     | Strip 6in topsoil<br>Cut subsoil to proposed                                         | n/a              | n/a              | 4923            | 0.50          | 2462              | 91.2              | 0%            | 91.                |
|     | Grass to Grass                         | Subsoil Excavate                     | subgrade<br>Fill subsoil to proposed                                                 | Ex-6in           | Pro-6in          | 4923            | varies        | 1228              | 45.5              | 0%            | 45.                |
|     | Grass to Grass                         | Subsoil Place                        | subgrade                                                                             | Ex-6in           | Pro-6in          | 4923            | varies        | -591              | -21.9             | 0%            | -21                |
|     | Grass to Grass                         | Topsoil Place                        | Place 6in topsoil                                                                    | n/a              | n/a              | 4923            | -0.50         | -2462             | -91.2             | 0%            | -91                |
|     | Play Surface to<br>Grass               | Play Surface Excavate                | Remove existing play surface,<br>estimated depth 17in                                | n/a              | n/a              | 1564            | 1.42          | 2216              | 82.1              | 0%            | 82                 |
|     | Play Surface to<br>Grass               | Subsoil Excavate                     | Cut subsoil to proposed<br>subgrade                                                  | Ex-17in          | Pro-6in          | 1564            | varies        | 11                | 0.4               | 0%            | 0                  |
|     | Play Surface to                        |                                      | Fill subsoil to proposed                                                             |                  | Pro-6in          |                 |               | -1907             | -70.6             | 0%            | -70                |
|     | Grass<br>Play Surface to               | Subsoil Place                        | subgrade                                                                             | Ex-17in          |                  | 1564            | varies        |                   |                   |               |                    |
|     | Grass                                  | Topsoil Place                        | Place 6in topsoil                                                                    | n/a              | n/a              | 1564            | -0.50         | -782              | -29.0             | 0%            | -29                |
|     | Play Surface to<br>Play Surface        | Play Surface Excavate                | Remove existing play surface,                                                        | n/a              | n/a              | 2672            | 1.42          | 3785              | 140.2             | 0%            | 140                |
|     | Play Surface to                        | Play Surface Excavate                | estimated depth 17in<br>Cut subsoil to proposed                                      |                  |                  |                 |               |                   |                   |               | 140                |
|     | Play Surface<br>Play Surface to        | Subsoil Excavate                     | Fill subsoil to proposed                                                             | Ex-17in          | Pro-12in         | 2672            | varies        | 780               | 28.9              | 0%            | 28                 |
|     | Play Surface<br>Play Surface to        | Subsoil Place                        | subgrade<br>Place 12in wood mulch play                                               | Ex-17in          | Pro-12in         | 2672            | varies        | -1914             | -70.9             | 0%            | -70                |
|     |                                        | Play Surface Place                   | surface                                                                              | n/a              | n/a              | 2672            | -1.00         | -2672             | -99.0             | 0%            | -99.               |
|     | Play Surface to                        | Discourte 5                          | Remove existing play surface,                                                        |                  |                  |                 |               |                   |                   |               |                    |
|     | Timbers<br>Play Surface to             | Play Surface Excavate                | estimated depth 17in<br>Cut subsoil to proposed                                      | n/a              | n/a              | 67              | 1.42          | 95                | 3.5               | 0%            | 3.                 |
|     | Timbers<br>Play Surface to             | Subsoil Excavate                     | subgrade<br>Fill subsoil to proposed                                                 | Ex-17in          | Pro-12in         | 67              | varies        | 14                | 0.5               | 0%            | 0                  |
|     | Timbers                                | Subsoil Place                        | subgrade<br>Place playground border                                                  | Ex-17in          | Pro-12in         | 67              | varies        | -49               | -1.8              | 0%            | -1                 |
|     |                                        | Border Timbers Place                 | timbers (placeholder volume                                                          |                  | - /-             |                 |               | -                 |                   |               |                    |
|     | Timbers                                | (placeholder volume)                 | to balance volume comps)                                                             | n/a              | n/a              | 67              | -1.00         | -67               | -2.5              | 0%            | -2                 |
|     | Grass to Asphalt                       | Topsoil Excavate                     | Strip 6in topsoil<br>Cut subsoil to proposed                                         | n/a              | n/a              | 297             | 0.50          | 148               | 5.5               | 0%            | 5                  |
|     | Grass to Asphalt                       | Subsoil Excavate                     | subgrade                                                                             | Ex-6in           | Pro-12in         | 297             | varies        | 151               | 5.6               | 0%            | 5                  |
|     | Grass to Asphalt                       |                                      | Fill subsoil to proposed<br>subgrade                                                 | Ex-6in           | Pro-12in         | 297             | varies        | 0                 | 0.0               | 0%            | 0                  |
|     | Grass to Asphalt                       | Gravel (for Pavement)<br>Place       | Place 9in gravel base out to<br>6in from pavement edge                               | n/a              | n/a              | 297             | -0.75         | -223              | -8.2              | 0%            | -8                 |
|     | Grass to Asphalt                       | Asphalt Place                        | Place 3in asphalt                                                                    | n/a              | n/a              | 297             | -0.25         | -74               | -2.7              | 0%            | -2                 |
|     | Grass to                               |                                      |                                                                                      |                  |                  |                 |               |                   |                   | 0%            |                    |
|     | Timbers<br>Grass to                    | Topsoil Excavate                     | Strip 6in topsoil<br>Fill subsoil to proposed                                        | n/a              | n/a              | 55              | 0.50          | 28                | 1.0               |               | 1.                 |
|     | Timbers<br>Grass to                    | Subsoil Place                        | subgrade<br>Cut subsoil to proposed                                                  | Ex-6in           | Pro-12in         | 55              | varies        | 76                | 2.8               | 0%            | 2                  |
|     | Timbers                                | Subsoil Excavate                     | subgrade<br>Place playground border                                                  | Ex-6in           | Pro-12in         | 55              | varies        | -3                | -0.1              | 0%            | -0                 |
|     | Grass to                               | Border Timbers Place                 | timbers (placeholder volume                                                          | 0/0              | 0/0              | 55              | -1.00         |                   | -2.0              | 0%            | -2                 |
|     | Timbers                                | (placeholder volume)                 | to balance volume comps)                                                             | n/a              | n/a              | 55              | -1.00         | -55               | -2.0              | 0%            | -2                 |
|     | Play Surface to<br>Asphalt             | Play Surface Excavate                | Remove existing play surface,<br>estimated depth 17in                                | n/a              | n/a              | 297             | 1.42          | 421               | 15.6              | 0%            | 15.                |
|     | Play Surface to<br>Asphalt             | Subsoil Excavate                     | Cut subsoil to proposed<br>subgrade                                                  | Ex-17n           | Pro-12in         | 297             | varies        | 0                 | 0.0               | 0%            | 0.                 |
|     | Play Surface to<br>Asphalt             | Subsoil Place                        | Fill subsoil to proposed<br>subgrade                                                 | Ex-17in          | Pro-12in         | 297             | varies        | -279              | -10.3             | 0%            | -10.               |
|     | Play Surface to                        | Gravel (for Pavement)                | Place 9in gravel base out to                                                         |                  |                  |                 |               |                   |                   |               |                    |
|     | Asphalt<br>Play Surface to             | Place                                | 6in from pavement edge                                                               | n/a              | n/a              | 297             | -0.75         | -223              | -8.3              | 0%            | -8                 |
|     | Asphalt                                | Asphalt Place                        | Place 3in asphalt                                                                    | n/a              | n/a              | 297             | -0.25         | -74               | -2.8              | 0%            | -2                 |
|     | Asphalt to Grass                       | Asphalt Excavate                     | Excavate 12in asphalt<br>Cut subsoil to proposed                                     | n/a              | n/a              |                 | 1.00          | 0                 | 0.0               | 0%            | 0                  |
|     | Asphalt to Grass                       | Subsoil Excavate                     | subgrade                                                                             | Ex-12in          | Pro-6in          |                 | varies        |                   | 0.0               | 0%            | 0.                 |
|     | Asphalt to Grass                       | Subsoil Place                        | Fill subsoil to proposed<br>subgrade                                                 | Ex-12in          | Pro-6in          |                 | varies        |                   | 0.0               | 0%            | 0                  |
|     | Asphalt to Grass                       |                                      | Place 6in topsoil                                                                    | n/a              | n/a              |                 | -0.50         | 0                 | 0.0               | 0%            | 0                  |
|     | Grass to                               |                                      |                                                                                      |                  |                  | 4057            |               |                   |                   |               |                    |
|     | Playsurface<br>Grass to                | Topsoil Excavate                     | Strip 6in topsoil<br>Cut subsoil to proposed                                         | n/a              | n/a              | 1657            | 0.50          | 829               | 30.7              | 0%            | 30                 |
| _   | Playsurface<br>Grass to                | Subsoil Excavate                     | subgrade<br>Fill subsoil to proposed                                                 | Ex-6in           | Pro-12in         | 1657            | varies        | 2596              | 96.1              | 0%            | 96.                |
|     | Playsurface<br>Grass to                | Subsoil Place                        | subgrade<br>Place 12in wood mulch play                                               | Ex-6in           | Pro-12in         | 1657            | varies        | -3                | -0.1              | 0%            | -0                 |
|     | Playsurface                            | Play Surface Place                   | surface                                                                              | n/a              | n/a              | 1657            | -1.00         | -1657             | -61.4             | 0%            | -61                |
|     | Grass to<br>Concrete                   | Topsoil Excavate                     | Strip 6in topsoil                                                                    | n/a              | n/a              | 1774            | 0.50          | 887               | 32.9              | 0%            | 32                 |
|     | Grass to<br>Concrete                   | Subsoil Excavate                     | Cut subsoil to proposed<br>subgrade                                                  | Ex-6in           | Pro-12in         | 1774            | varies        | 2609              | 96.6              | 0%            | 96.                |
|     | Grass to<br>Concrete                   | Subsoil Place                        | Fill subsoil to proposed<br>subgrade                                                 | Ex-6in           | Pro-12in         | 1774            | varies        | -13               | -0.5              | 0%            | -0.                |
|     | Grass to                               | Gravel (for Pavement)                |                                                                                      |                  |                  |                 |               |                   |                   |               |                    |
|     | Concrete<br>Grass to                   | Place                                | Place 7in gravel base                                                                | n/a              | n/a              | 1774            | -0.58         | -1029             | -38.1             | 0%            | -38                |
|     | Concrete<br>Concrete to                | Concrete Place                       | Place 5in concrete                                                                   | n/a              | n/a              | 1774            | -0.42         | -738              | -27.3             | 0%            | -27                |
|     | Grass<br>Concrete to                   | Concrete Excavate                    | Excavate 12in concrete<br>Cut subsoil to proposed                                    | n/a              | n/a              | 100             | 1.00          | 100               | 3.7               | 0%            | 3                  |
| _   | Grass                                  | Subsoil Excavate                     | subgrade                                                                             | Ex-12in          | Pro-6in          | 100             | varies        | 0                 | 0.0               | 0%            | 0.                 |
|     | Concrete to<br>Grass                   | Subsoil Place                        | Fill subsoil to proposed<br>subgrade                                                 | Ex-12in          | Pro-6in          | 100             | varies        | -73               | -2.7              | 0%            | -2                 |
|     | Concrete to<br>Grass                   | Topsoil Place                        | Place 6in topsoil                                                                    | n/a              | n/a              | 100             | -0.50         | -50               | -1.9              | 0%            | -1.                |
|     | Play Surface to                        |                                      | Remove existing play surface,                                                        |                  |                  |                 |               |                   |                   |               |                    |
|     | Pea Gravel                             | Play Surface Excavate                | estimated depth 17in                                                                 | n/a              | n/a              | 557             | 1.42          | 789               | 29.2              | 0%            | 29                 |
| _   | Play Surface to                        | Subsoil Excavate                     | Cut subsoil to proposed<br>subgrade                                                  | Ex-17n           | Pro-12in         | 557             | varies        |                   | 0.0               | 0%            | 0                  |
|     | Play Surface to<br>Pea Gravel          | Subsoil Place                        | Fill subsoil to proposed subgrade                                                    | Ex-17in          | Pro-12in         | 557             | varies        | -541              | -20.0             | 0%            | -20                |
|     | Play Surface to                        |                                      |                                                                                      |                  |                  |                 |               |                   |                   |               |                    |
|     |                                        | New Pea Gravel Place                 | Place 12in Pea gravel                                                                | n/a              | n/a              | 557             | -1.00         | -557              | -20.6             | 0%            | -20                |
|     | Grass to Pea                           |                                      |                                                                                      |                  | In to            | 92              | 0.50          | 46                | 47                | 0%            | 1.                 |
|     | Grass to Pea<br>Gravel<br>Grass to Pea | Topsoil Excavate                     | Strip 6in topsoil<br>Cut subsoil to proposed                                         | n/a              | n/a              | 52              | 0.00          | 40                | 1.7               | 0%            |                    |
|     | Gravel                                 | Topsoil Excavate Subsoil Excavate    | Strip 6in topsoil<br>Cut subsoil to proposed<br>subgrade<br>Fill subsoil to proposed | n/a<br>Ex-6in    | Pro-12in         | 92              | varies        | 5                 | 0.2               | 0%            | 0                  |

| City of Madison, WI Public Works Contract                             |                                          |       |
|-----------------------------------------------------------------------|------------------------------------------|-------|
| Date Revised:                                                         | 5/3/2018                                 |       |
|                                                                       |                                          |       |
| Dervied from more detailed spreadsheet avai                           | lable from Parks Div                     |       |
| Computation Summary                                                   |                                          |       |
| Computation Summary<br>Positive volumes are cuts (material available) | negative volumes are fills (material nee | ded)  |
| , , , , , , , , , , , , , , , , , , , ,                               |                                          |       |
| Row Labels                                                            | Sum of Unfac-tored volume (cu vd)        |       |
| Asphalt Place                                                         | -5.5                                     |       |
| Border Timbers Place (placeholder volume)                             | -3.3<br>-4.5                             |       |
| Gravel (for Pavement) Place                                           | -54.6                                    |       |
| Play Surface Excavate                                                 | 270.6                                    |       |
| Play Surface Place                                                    | -160.3                                   |       |
| Subsoil Excavate                                                      | 273.8                                    |       |
| Subsoil Place                                                         | -196.0                                   |       |
| Topsoil Excavate                                                      | 162.9                                    |       |
| Topsoil Place                                                         | -122.0                                   |       |
| Asphalt Excavate                                                      | 0.0                                      |       |
| Concrete Excavate                                                     | 3.7                                      |       |
| New Pea Gravel Place                                                  | -24.0                                    |       |
| Concrete Place                                                        | -27.3                                    | Units |
| Grand Total                                                           | 116.7                                    | CY    |
| 20101 Excavation Cut                                                  | 434                                      | CY    |
| 20104 - Excavation Cut - Pea Gravel                                   | 271                                      |       |
| 20201 Fill                                                            | -78                                      |       |
| 20221 Topsoil                                                         | 731                                      |       |
| 40102 Crushed Aggregate Base Course                                   |                                          |       |
| Gradation No. 2 & 3                                                   | 109.2                                    | TONS  |
| 40201 3" Depth HMA Pavement Type E-0.3                                | 11 0                                     | TONS  |
| 90003 - Playground Surfacing - Wood                                   | 11:3                                     | 10110 |
| Mulch                                                                 | 176                                      | CY    |
|                                                                       |                                          |       |
| 90010 - Playground Surfacing - Pea Gravel                             | 26                                       | CY    |

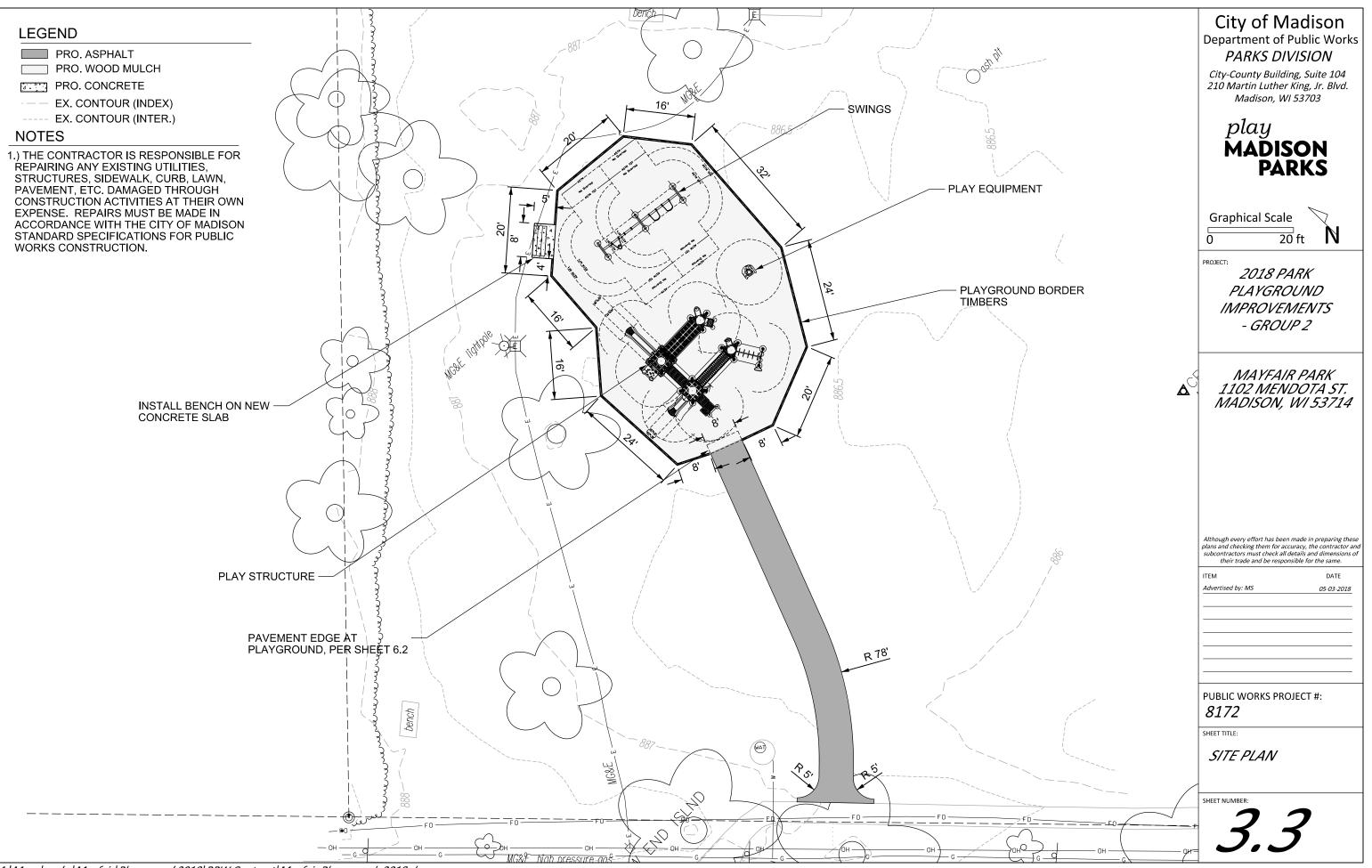
|                                                                                                                                                                                                                                                      | City of Madison<br>Department of Public Works<br>PARKS DIVISION<br>City-County Building, Suite 104<br>210 Martin Luther King, Jr. Blvd.<br>Madison, WI 53703<br>Play<br>MADISON<br>PARKS                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                      | PROJECT:<br>2018 PARK<br>PLAYGROUND<br>IMPROVEMENTS<br>- GROUP 2                                                                                                                                                                                                           |
| B         Relation to Table Above         =Subsoil Excavate + Topsoil Excavate         = Play Surface Excavate         = Subsoil Excavate - Subsoil Place         = Topsoil Place/.167 (depth)         S       = (Gravel Place) * 2.0 ton/cubic yard | ELMSIDE CIRCLE PARK<br>500 ELMSIDE BLVD.<br>MADISON, WI 53704                                                                                                                                                                                                              |
| S = Asphalt Place * 2.16 ton/cubic yard<br>= Play Surface Place*1.10<br>= New Pea Gravel Place*1.10                                                                                                                                                  | Although every effort has been made in preparing these<br>plans and checking them for accuracy, the contractor and<br>subcontractors must check all details and dimensions of<br>their trade and be responsible for the same.<br>ITEM DATE<br>Advertised by: MR 05-03-2018 |
|                                                                                                                                                                                                                                                      | PUBLIC WORKS PROJECT #:<br>8172<br>Sheet Title:<br>DESIGN<br>COMPUTATIONS                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                      | SHEET NUMBER:                                                                                                                                                                                                                                                              |



M:|Maps|parks|Mayfair|Playground 2018|BPW Contract|Mayfair Playground\_2018.dgn



M:|Maps|parks|Mayfair|Playground 2018|BPW Contract|Mayfair Playground\_2018.dgn



M:|Maps|parks|Mayfair|Playground 2018|BPW Contract|Mayfair Playground\_2018.dgn

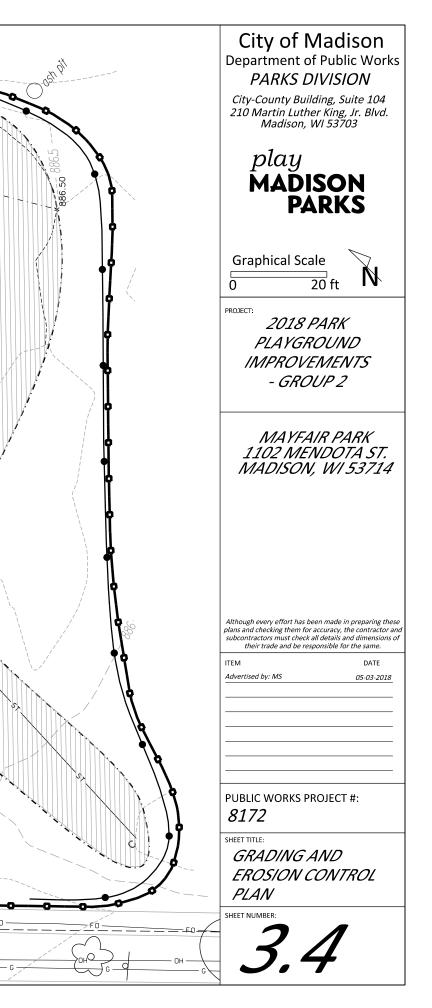
### LEGEND + PRO. SPOT EL. PRO. ASPHALT PRO. WOOD MULCH 88/1 80 PRO. EROSION MATTING SWALE PRO. CONSTRUCTION ENTRANCE -st - PRO. DRAINTILE SWALE ----- PRO, GRADING LIMITS -D- PRO. CONSTRUCTION FENCE ---- PRO. SILT SOCK ---- PRO. CONTOUR (INDEX) ----- PRO. CONTOUR (INTER) EX. CONTOUR (INDEX) EX. CONTOUR (INTER.) 8 NOTES .) PLACE 4 OZ. PERMEABLE NON-WOVEN LANDSCAPE FABRIC OVER ENTIRE PLAYGROUND SUBGRADE PER DETAIL 6.1. .) PLAYGROUND EQUIPMENT SHALL BE 1:0thpoli INSTALLED WITH APPROPRIATE ELEVATIONS MCSE Ο RELATIVE TO PROPOSED FINISHED SURFACE ELEVATIONS FOR PLAYGROUND SURFACING AS DEFINED IN PLANS. EDGE OF PLAYGROUND BORDER TIMBERS: 887.58 ELEVATION OF FINISHED PLAYGROUND SURFACE: 887.41 PLAYGROUND SUBGRADE ELEVATION: 886.41 ASPHALT AT PLAYGROUND ELEVATION: 887.41 bench DRAIN TILE SYSTEM, SEE SHEET 3.5 FOR INVERTS, PIPE LENGTHS AND SLOPES. $\mathcal{A}$ $Q_{\mathcal{A}}$ $\rightarrow$ – пн

S

MG&E high pressure ga§

D

M:|Maps|parks|Mayfair|Playground 2018|BPW Contract|Mayfair Playground\_2018.dgn



|         | Dra   |                         |                 |          |            |           |  |
|---------|-------|-------------------------|-----------------|----------|------------|-----------|--|
|         |       |                         | Distance from   | n top of |            |           |  |
|         | Point | Invert (ft)             | timbers 8       | 87.58    |            |           |  |
|         |       |                         | (INCHE          | S)       | Ahead leng | gth       |  |
|         | А     | 885.82                  | 21.1            |          | 19.5       |           |  |
|         | В     | 885.77                  | 21.7            |          | 101.2      |           |  |
|         | С     | 885.50                  | 25.0            | 0.0      |            |           |  |
|         |       | <b>D</b> · <b>T</b> · · |                 |          |            |           |  |
|         |       | Drain Tile Le           | engths & Slope  | es       |            |           |  |
|         | fı    | rom intersect           | ion to intersed | ction    |            |           |  |
| From To |       | То                      | Length (ft)     | Slope (% | 5) Pi      | Pipe type |  |
| A B     |       | В                       | 19.5            | -0.26    | Un         | derdrai   |  |
|         | В     | С                       | 101.2           | -0.27    | Underdı    |           |  |
|         |       | Total                   | 120.7           |          |            |           |  |
|         |       |                         |                 |          |            |           |  |

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iin in City of Madison Department of Public Works PARKS DIVISION

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



PROJECT:

2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

MAYFAIR PARK 1102 MENDOTA ST. MADISON, WI 53714

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 Advertised by: MR

DATE 05-03-2018

PUBLIC WORKS PROJECT #: 8172

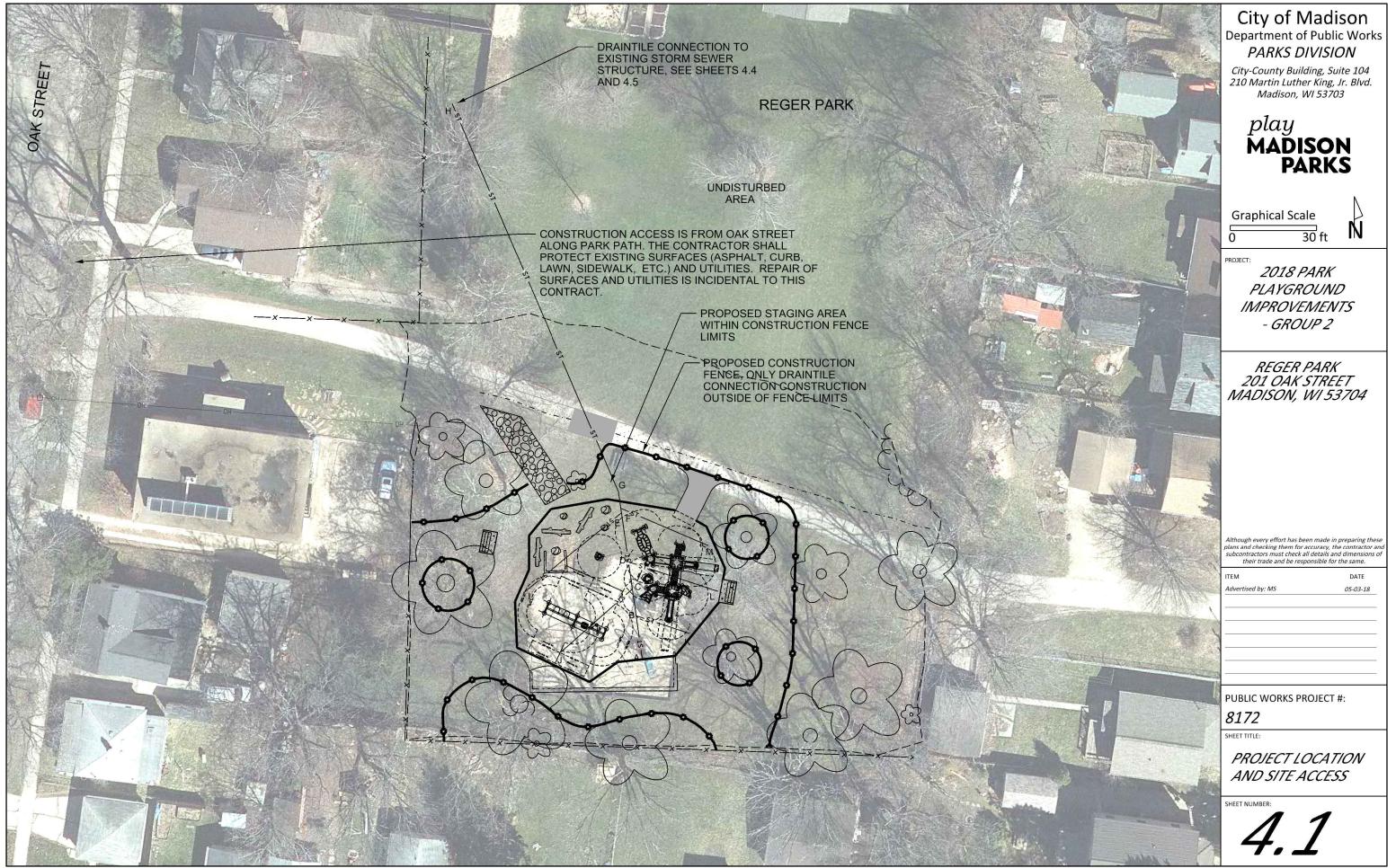
SHEET TITLE:

DRAIN TILE SCHEDULES

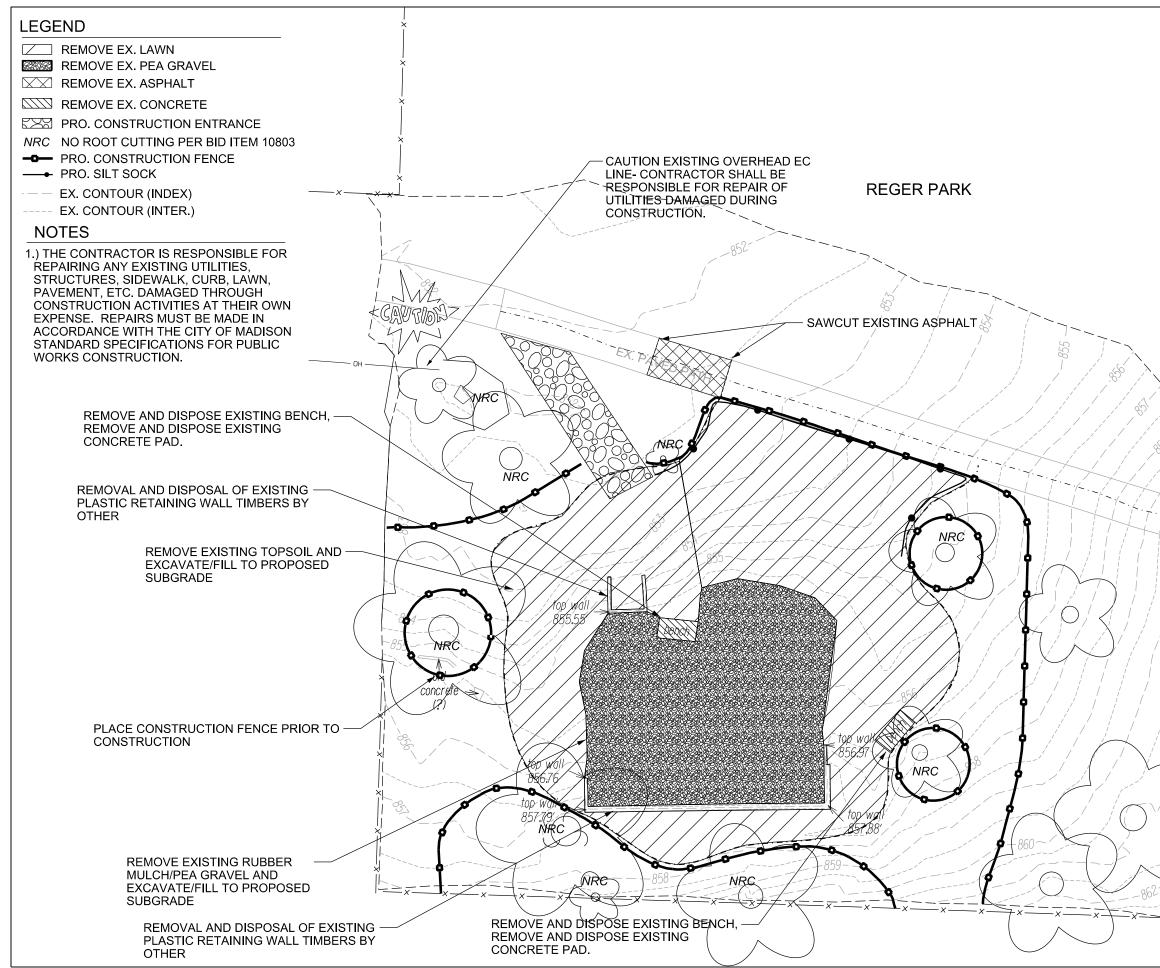


|               | -                                                              | Playground - Earthw                    |                                                       |                 |                      |                |             |                           |                           |                          |                                          |                                                                                                                                             |
|---------------|----------------------------------------------------------------|----------------------------------------|-------------------------------------------------------|-----------------|----------------------|----------------|-------------|---------------------------|---------------------------|--------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
|               | City of Madison,<br>Date Revised:                              | WI Public Works Contract<br>4/3/201    |                                                       |                 |                      |                |             |                           |                           |                          |                                          |                                                                                                                                             |
|               |                                                                |                                        |                                                       |                 |                      |                |             |                           |                           |                          |                                          |                                                                                                                                             |
|               | lotes:<br>ositive volumes                                      | are cuts, negative volumes             | are fills.                                            |                 |                      |                |             |                           |                           |                          |                                          |                                                                                                                                             |
| 1             | lot all parts of all                                           | I surface models (Digital Te           | errain Models) are used for com                       | putations or i  | ntended for          | r actual co    | onstruction |                           |                           |                          |                                          |                                                                                                                                             |
| F             | xisting                                                        |                                        |                                                       |                 |                      |                |             |                           |                           |                          |                                          |                                                                                                                                             |
| F             | roposed                                                        |                                        |                                                       |                 |                      |                |             |                           |                           |                          |                                          |                                                                                                                                             |
| F             | roposed                                                        |                                        |                                                       |                 |                      |                |             |                           |                           |                          |                                          |                                                                                                                                             |
| Τ             |                                                                |                                        |                                                       | From<br>Surface | To<br>Surface        | area           | depth       | Unfac-<br>tored<br>volume | Unfac-<br>tored<br>volume | Expan-<br>sion<br>Factor | Factored<br>(Uncom-<br>pacted)<br>Volume |                                                                                                                                             |
|               | irp                                                            | Material                               | Item                                                  | Model           | Model                | (sq ft)        | (ft)        | (cu ft)                   | (cu yd)                   | (%)                      | (cu yd)                                  |                                                                                                                                             |
| -+'           | Grass to Grass                                                 | Topsoil Excavate                       | Strip 6in topsoil<br>Cut subsoil to proposed          | n/a             | n/a                  | 13260          | 0.50        | 6630                      | 245.6                     | 0%                       | 245.6                                    | 3                                                                                                                                           |
|               | Grass to Grass                                                 | Subsoil Excavate                       | subgrade                                              | Ex-6in          | Pro-6in              | 13260          | varies      | 45                        | 1.7                       | 0%                       | 1.7                                      | 7                                                                                                                                           |
|               |                                                                |                                        | Fill subsoil to proposed                              | E 01            | D. C                 | 40000          |             | 0074                      |                           | 00/                      |                                          |                                                                                                                                             |
|               | Grass to Grass<br>Grass to Grass                               |                                        | subgrade<br>Place 6in topsoil                         | Ex-6in<br>n/a   | Pro-6in<br>n/a       | 13260<br>13260 |             | -3871<br>-6630            | -143.4<br>-245.6          | 0%<br>0%                 | -143.4<br>-245.6                         |                                                                                                                                             |
|               |                                                                |                                        |                                                       |                 |                      |                |             |                           |                           |                          |                                          |                                                                                                                                             |
| 1             | Play Surface to<br>Grass                                       | Play Surface Excavate                  | Remove existing play surface,<br>estimated depth 17in | n/a             | n/a                  | 1121           | 1.42        | 1588                      | 58.8                      | 0%                       | 58.8                                     |                                                                                                                                             |
|               | Play Surface to                                                |                                        | Fill subsoil to proposed                              |                 |                      |                |             |                           |                           |                          |                                          |                                                                                                                                             |
| +             | Grass<br>Plav Surface to                                       | Subsoil Place                          | subgrade                                              | Ex-17in         | Pro-6in              | 1121           | varies      | -1133                     | -42.0                     | 0%                       | -42.0                                    |                                                                                                                                             |
| _  '          |                                                                | Topsoil Place                          | Place 6in topsoil                                     | n/a             | n/a                  | 1121           | -0.50       | -560                      | -20.8                     | 0%                       | -20.8                                    | 3                                                                                                                                           |
|               |                                                                |                                        |                                                       |                 |                      |                |             |                           |                           |                          |                                          |                                                                                                                                             |
|               | Play Surface to<br>Plav Surface                                | Play Surface Excavate                  | Remove existing play surface,<br>estimated depth 17in | n/a             | n/a                  | 977            | 1.42        | 1384                      | 51.3                      | 0%                       | 51.3                                     | 3                                                                                                                                           |
| F             | Play Surface to                                                |                                        | Cut subsoil to proposed                               |                 |                      |                |             | 1004                      |                           |                          |                                          |                                                                                                                                             |
|               |                                                                | Subsoil Excavate                       | subgrade                                              | Ex-17in         | Pro-12in             | 977            | varies      | 0                         | 0.0                       | 0%                       | 0.0                                      |                                                                                                                                             |
|               | Play Surface to<br>Play Surface                                |                                        | Fill subsoil to proposed<br>subgrade                  | Ex-17in         | Pro-12in             | 977            | varies      | -1420                     | -52.6                     | 0%                       | -52.6                                    | 3                                                                                                                                           |
| I             | Play Surface to                                                |                                        | Place 12in wood mulch play                            |                 |                      |                |             |                           |                           |                          |                                          |                                                                                                                                             |
| +             | Play Surface                                                   | Play Surface Place                     | surface                                               | n/a             | n/a                  | 977            | -1.00       | -977                      | -36.2                     | 0%                       | -36.2                                    |                                                                                                                                             |
| 1             | Play Surface to                                                |                                        | Remove existing play surface,                         | .               |                      |                |             |                           |                           |                          |                                          | Mayfair Park Playground - Earthwork Quantities                                                                                              |
| +             | Timbers<br>Play Surface to                                     | Play Surface Excavate                  | estimated depth 17in                                  | n/a             | n/a                  | 4              | 1.42        | 6                         | 0.2                       | 0%                       | 0.2                                      | 2 City of Madison, WI Public Works Contract                                                                                                 |
| '             |                                                                | Subsoil Excavate                       | Cut subsoil to proposed<br>subgrade                   | Ex-17in         | Pro-12in             | 4              | varies      | 0                         | 0.0                       | 0%                       | 0.0                                      | Date Revised: 5/3/2018                                                                                                                      |
| J             | Play Surface to                                                |                                        | Fill subsoil to proposed                              |                 |                      |                |             |                           |                           |                          |                                          |                                                                                                                                             |
| +             | Timbers                                                        | Subsoil Place                          | subgrade<br>Place playground border                   | Ex-17in         | Pro-12in             | 4              | varies      | -6                        | -0.2                      | 0%                       | -0.2                                     | 2 Dervied from more detailed spreadsheet available from Parks Div                                                                           |
| 1             |                                                                | Border Timbers Place                   | timbers (placeholder volume                           |                 |                      |                |             |                           |                           |                          |                                          | Computation Summary                                                                                                                         |
| _             | Timbers                                                        | (placeholder volume)                   | to balance volume comps)                              | n/a             | n/a                  | 4              | -1.00       | -4                        | -0.2                      | 0%                       | -0.2                                     | Positive volumes are cuts (material available), negative volumes are fills (material needed)                                                |
| 0             | Frass to Asphalt                                               | Topsoil Excavate                       | Strip 6in topsoil                                     | n/a             | n/a                  | 731            | 0.50        | 365                       | 13.5                      | 0%                       | 13.5                                     |                                                                                                                                             |
|               |                                                                |                                        | Cut subsoil to proposed                               |                 |                      |                |             |                           |                           |                          |                                          | David shale                                                                                                                                 |
|               | Frass to Asphalt                                               | Subsoil Excavate                       | subgrade<br>Fill subsoil to proposed                  | Ex-6in          | Pro-12in             | 731            | varies      | 108                       | 4.0                       | 0%                       | 4.0                                      | Row Labels     v     Sum of Unfac-tored volume (cu yd)       Asphalt Place     -6.8                                                         |
| (             | Frass to Asphalt                                               | Subsoil Place                          | subgrade                                              | Ex-6in          | Pro-12in             | 731            | varies      | -55                       | -2.0                      | 0%                       | -2.0                                     | Border Timbers Place (placeholder volume) -2.5                                                                                              |
|               | Frass to Asphalt                                               | Gravel (for Pavement)                  | Place 9in gravel base out to                          | n/o             | n/a                  | 731            | -0.75       | -548                      | -20.3                     | 0%                       | 20.2                                     | -20.3                                                                                                                                       |
| +             | rass to Asphalt                                                | Place                                  | 6in from pavement edge                                | n/a             | n/a                  | /31            | -0.75       | -048                      | -20.3                     | 0%                       |                                          | Play Surface Excavate 110.3                                                                                                                 |
|               | Frass to Asphalt                                               | Asphalt Place                          | Place 3in asphalt                                     | n/a             | n/a                  | 731            | -0.25       | -183                      | -6.8                      | 0%                       | -6.8                                     | Play Surface Place -114.0                                                                                                                   |
| 6             | Grass to Asphalt                                               | Topsoil Place                          | Place 3in topsoil over 6in<br>wide gravel edge        | n/a             | n/a                  | 0              | -0.25       | 0                         | 0.0                       | 0%                       | 0.0                                      | Subsoil Excavate     4.6       2 Subsoil Place     -274.9                                                                                   |
|               | Grass to                                                       |                                        |                                                       |                 |                      |                |             |                           |                           |                          | 0.0                                      | Topsoil Excavate 299.2                                                                                                                      |
| +             | Timbers<br>Grass to                                            | Topsoil Excavate                       | Strip 6in topsoil<br>Fill subsoil to proposed         | n/a             | n/a                  | 63             | 0.50        | 31                        | 1.2                       | 0%                       | 1.2                                      | Topsoil Excavate     299.2       Topsoil Place     -266.3                                                                                   |
|               |                                                                | Subsoil Place                          | subgrade                                              | Ex-6in          | Pro-12in             | 63             | varies      | 0                         | 0.0                       | 0%                       | 0.0                                      | Asphalt Excavate 0.0                                                                                                                        |
|               | Grass to                                                       |                                        | Cut subsoil to proposed                               |                 |                      |                |             |                           |                           |                          |                                          | Grand Total -270.7                                                                                                                          |
| +             | Timbers                                                        | Subsoil Excavate                       | subgrade<br>Place playground border                   | Ex-6in          | Pro-12in             | 63             | varies      | -29                       | -1.1                      | 0%                       | -1.1                                     | Reorganized into bid table items                                                                                                            |
|               |                                                                | Border Timbers Place                   | timbers (placeholder volume                           |                 |                      |                |             |                           |                           |                          |                                          | Bid Item Quantity CY Relation to Table Above                                                                                                |
| _             | Timbers                                                        | (placeholder volume)                   | to balance volume comps)                              | n/a             | n/a                  | 63             | -1.00       | -63                       | -2.3                      | 0%                       | -2.3                                     |                                                                                                                                             |
|               | Play Surface to                                                |                                        | Remove existing play surface,                         |                 |                      |                |             |                           |                           |                          |                                          | 20101 Excavation Cut 409 CY =Subsoil Excavate + Topsoil E                                                                                   |
|               | Asphalt                                                        | Play Surface Excavate                  | estimated depth 17in                                  | n/a             | n/a                  |                | 1.42        | 0                         | 0.0                       | 0%                       | 0.0                                      | 20104 - Excavation Cut - Pea gravel 110 CY = Play Surface Excavate                                                                          |
|               | Play Surface to<br>Asphalt                                     | Subsoil Excavate                       | Cut subsoil to proposed<br>subgrade                   | Ex-17n          | Pro-12in             |                | varies      |                           | 0.0                       | 0%                       | 0.0                                      | 20201 Fill         270 CY         = Subsoil Excavate - Subsoil           20221 Topsoil         1595 SY         = Topsoil Place/.167 (depth) |
| 1             | Play Surface to                                                |                                        | Fill subsoil to proposed                              |                 |                      |                |             |                           |                           |                          |                                          | 40102 Crushed Aggregate Base Course                                                                                                         |
| $\rightarrow$ |                                                                | Subsoil Place<br>Gravel (for Pavement) | subgrade<br>Place 9in gravel base out to              | Ex-17in         | Pro-12in             |                | varies      |                           | 0.0                       | 0%                       | 0.0                                      | Gradation No. 2 & 3 40.6 TONS = (Gravel Place) * 2.0 ton/cub                                                                                |
|               | Asphalt                                                        | Place                                  | 6in from pavement edge                                | n/a             | n/a                  |                | -0.75       | 0                         | 0.0                       | 0%                       | 0.0                                      |                                                                                                                                             |
| 1             | Play Surface to                                                |                                        |                                                       |                 |                      |                |             |                           |                           |                          |                                          | 40201 3" Depth HMA Pavement Type E-0.3 14.6 TONS = Asphalt Place * 2.16 ton/cut                                                             |
|               | Asphalt<br>Play Surface to                                     | Asphalt Place                          | Place 3in asphalt<br>Place 3in topsoil over 6in       | n/a             | n/a                  |                | -0.25       | 0                         | 0.0                       | 0%                       | 0.0                                      | 90003 - Playground Surfacing - Wood                                                                                                         |
|               |                                                                | Topsoil Place                          | wide gravel edge                                      | n/a             | n/a                  |                | -0.25       | 0                         | 0.0                       | 0%                       | 0.0                                      | Mulch         125 CY         = Play Surface Place*1.10                                                                                      |
|               | sphalt to Cross                                                | Asphalt Excavate                       | Excavate 12in asphalt                                 | n/a             | n/a                  |                | 1.00        | 0                         |                           | 0%                       |                                          |                                                                                                                                             |
| +             | apriait to Grass                                               | Asphali Excavale                       | Cut subsoil to proposed                               | n/a             | n/a                  |                | 1.00        | 0                         | 0.0                       | U%                       | 0.0                                      | 2                                                                                                                                           |
| _/            | sphalt to Grass                                                | Subsoil Excavate                       | subgrade                                              | Ex-12in         | Pro-6in              |                | varies      |                           | 0.0                       | 0%                       | 0.0                                      |                                                                                                                                             |
|               | sphalt to Grass                                                | Subsoil Place                          | Fill subsoil to proposed<br>subgrade                  | Ex-12in         | Pro-6in              |                | varies      |                           | 0.0                       | 0%                       | 0.0                                      |                                                                                                                                             |
|               |                                                                |                                        |                                                       |                 |                      |                |             |                           | 0.0                       |                          | 0.0                                      | 4                                                                                                                                           |
|               | sphalt to Grass                                                | Topsoil Place                          | Place 6in topsoil                                     | n/a             | n/a                  |                | -0.50       | 0                         | 0.0                       | 0%                       | 0.0                                      |                                                                                                                                             |
|               |                                                                |                                        | Strip 6in topsoil                                     | n/a             | n/a                  | 2101           | 0.50        | 1051                      | 38.9                      | 0%                       | 38.9                                     |                                                                                                                                             |
|               | Grass to                                                       | Topsoil Excavate                       |                                                       |                 |                      |                |             |                           |                           |                          | ,                                        |                                                                                                                                             |
|               | Grass to<br>Playsurface<br>Grass to                            |                                        | Cut subsoil to proposed                               |                 |                      |                |             |                           |                           |                          |                                          |                                                                                                                                             |
|               | Grass to<br>Playsurface<br>Grass to<br>Playsurface             | Topsoil Excavate Subsoil Excavate      | Cut subsoil to proposed subgrade                      | Ex-6in          | Pro-12in             | 2101           | varies      | 0                         | 0.0                       | 0%                       | 0.0                                      |                                                                                                                                             |
|               | Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to |                                        | Cut subsoil to proposed                               |                 | Pro-12in<br>Pro-12in | 2101           |             | 0<br>-938                 | 0.0<br>-34.7              | 0%<br>0%                 | 0.0<br>-34.7                             |                                                                                                                                             |

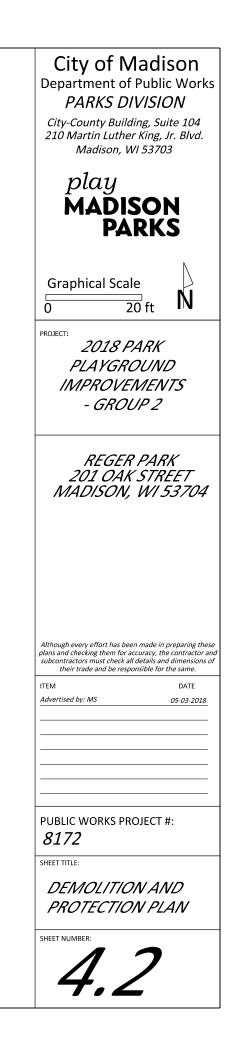


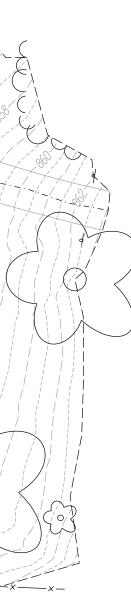


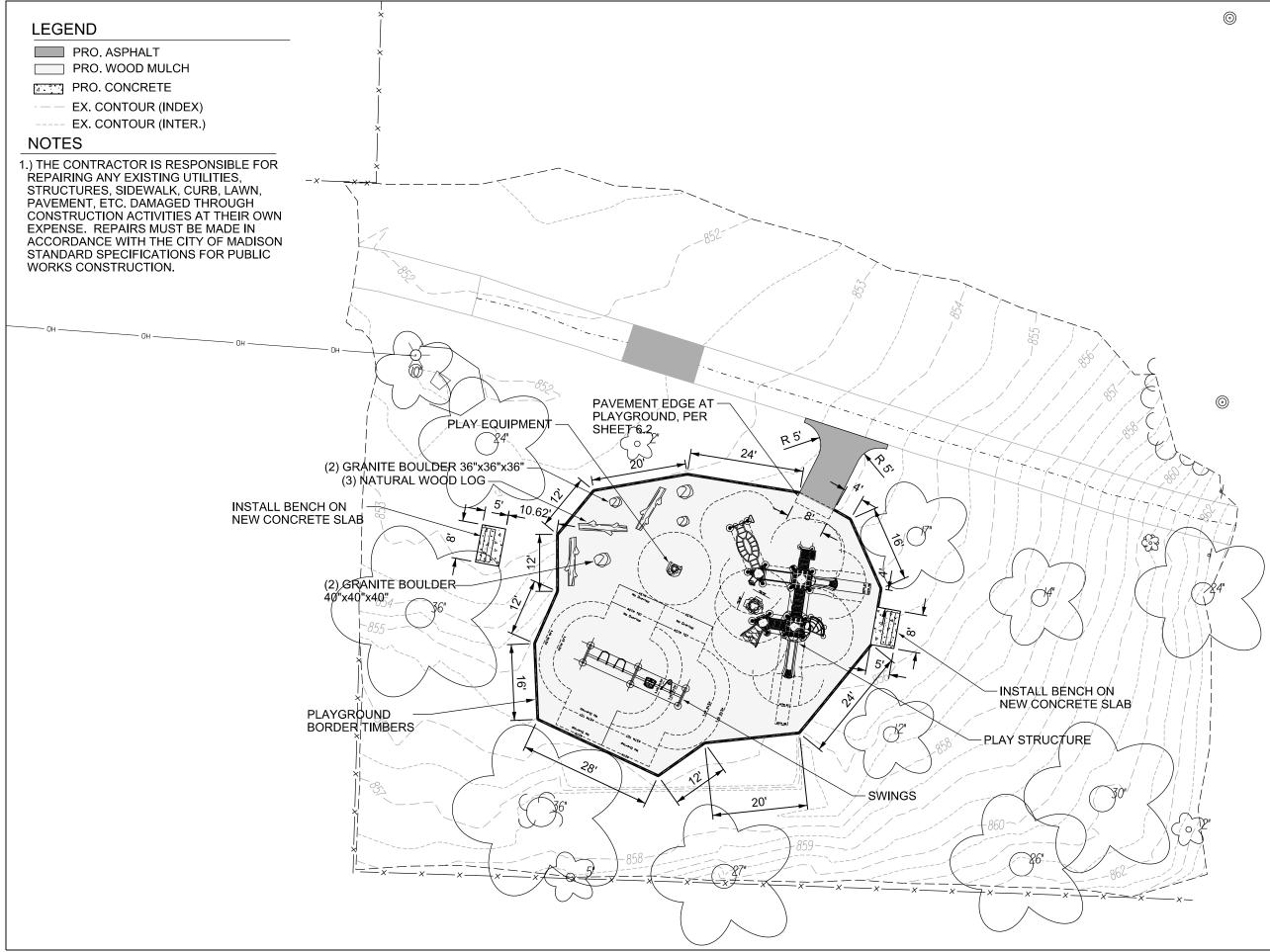
M: |Maps | parks | Reger | 2018 Playground | BPW files | Reger Park Playground\_2018.dgn



M:|Maps|parks|Reger|2018 Playground|BPW files|Reger Park Playground\_2018.dgn

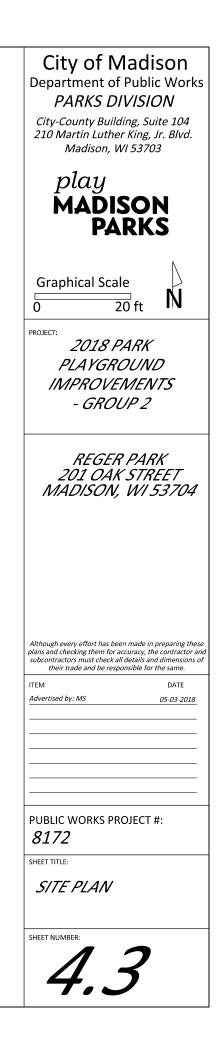


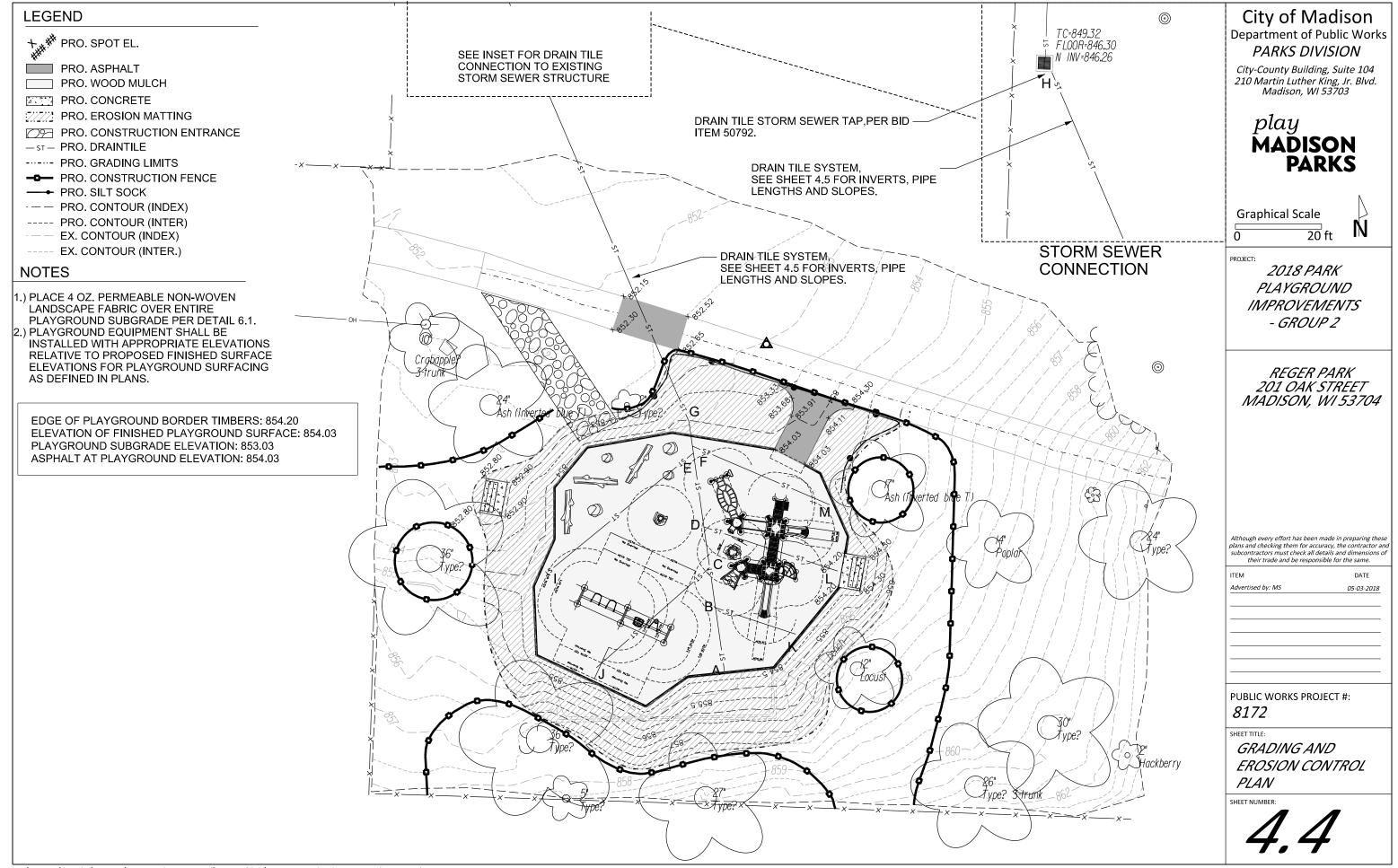




M:|Maps|parks|Reger|2018 Playground|BPW files|Reger Park Playground\_2018.dgn







|                                         |             | k Playground           |              |      | es                                |             |           |            |  |  |
|-----------------------------------------|-------------|------------------------|--------------|------|-----------------------------------|-------------|-----------|------------|--|--|
| Drain Tile Invert (Flowline) Elevations |             |                        |              | fror | from intersection to intersection |             |           |            |  |  |
|                                         |             | Distance from top of   |              | From | То                                | Length (ft) | Slope (%) | Pipe type  |  |  |
| Point                                   | Invert (ft) | timbers 854.2 (INCHES) |              | А    | В                                 | 15.0        | -2.67     | Underdrain |  |  |
|                                         |             |                        | Ahead length | В    | С                                 | 9.0         | -2.78     | Underdrain |  |  |
| Α                                       | 852.44      | 21.1                   | 15.0         | С    | D                                 | 9.5         | -2.63     | Underdrain |  |  |
| В                                       | 852.04      | 25.9                   | 9.0          | D    | E                                 | 17.3        | -2.66     | Underdrain |  |  |
| С                                       | 851.79      | 28.9                   | 9.5          | E    | F                                 | 1.6         | -2.50     | Underdrain |  |  |
| D                                       | 851.54      | 31.9                   | 17.3         | F    | G                                 | 5.7         | -2.63     | Underdrain |  |  |
| E                                       | 851.08      | 37.4                   | 1.6          | G    | Н                                 | 146.9       | -2.65     | Underdrain |  |  |
| F                                       | 851.04      | 37.9                   | 5.7          | Ι    | Е                                 | 44.2        | 1.61      | Underdrain |  |  |
| G                                       | 850.89      | 39.7                   | 146.9        | J    | С                                 | 35.1        | -1.85     | Underdrain |  |  |
| Н                                       | 847.00      | 86.4                   | 0.0          | К    | В                                 | 19.6        | -2.04     | Underdrain |  |  |
| I                                       | 852.44      | 21.1                   | 44.2         | L    | D                                 | 32.7        | -2.75     | Underdrain |  |  |
| J                                       | 852.44      | 21.1                   | 35.1         | M    | F                                 | 34.6        | -4.05     | Underdrain |  |  |
| К                                       | 852.44      | 21.1                   | 19.6         |      | Total                             | 371.20      |           |            |  |  |
| L                                       | 852.44      | 21.1                   | 32.7         |      |                                   |             |           |            |  |  |
| Μ                                       | 852.44      | 21.1                   | 34.6         |      |                                   |             |           |            |  |  |



#### City of Madison Department of Public Works PARKS DIVISION City-County Building, Suite 104

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



PROJECT:

2018 PARK PLAYGROUND IMPROVEMENTS - GROUP 2

REGER PARK 201 OAK STREET MADISON, WI 53704

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 Advertised by: MR DATE 05-03-2018

PUBLIC WORKS PROJECT #: 8172

DRAIN TILE SCHEDULES

SHEET NUMBER:



|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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|      | Notes:<br>Positive volumes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                   |                |
|      | Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Asphalt to Grass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                                                                                                            | Fill subsoil to proposed<br>subgrade<br>Place 9 in gravel base out to<br>6in from pavement edge<br>Place 3 in asphalt<br>Place 3 in topsoil over 6 in<br>wide gravel edge<br>Excavate 12 in asphalt<br>Cut subsoil to proposed<br>subgrade<br>Fill subsoil to proposed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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                   |                |
|      | Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt to Grass<br>Asphalt to Grass<br>Asphalt to Grass<br>Asphalt to Grass<br>Grass to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                                                            | Fill subsoil to proposed<br>subgrade<br>Place 9 in gravel base out to<br>6in from pavement edge<br>Place 3 in asphat<br>Place 3 in bosoil over 6in<br>wide gravel edge<br>Excavate 12in asphalt<br>Cut subsoil to proposed<br>subgrade<br>Place 6in topsoil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%                   |                |
|      | Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Asphalt to Grass<br>Asphalt to Grass<br>Asphalt to Grass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                                                                                                            | Fill subsoil to proposed<br>subgrade<br>Place 9 in gravel base out to<br>6in from pavement edge<br>Place 3 in asphalt<br>Place 3 in topsoil over 6 in<br>wide gravel edge<br>Excavate 12in asphalt<br>Cut subsoil to proposed<br>subgrade<br>Fill subsoil to proposed<br>subgrade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                   |                |
|      | Play Surface to<br>Asphat<br>Play Surface to<br>Asphat<br>Play Surface to<br>Asphat to Grass<br>Asphat to Grass<br>Asphat to Grass<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                            | Fill subsoil to proposed<br>subgrade<br>Place 9 in gravel base out to<br>6 in from pavement edge<br>Place 3 in asphatt<br>Place 3 in topsoil over 6 in<br>wide gravel edge<br>Excevate 12 in asphatt<br>Cut subsoil to proposed<br>subgrade<br>Place 6 in topsoil<br>Strip 6 in topsoil<br>Strip 6 in topsoil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%                   | 3              |
|      | Play Surface to<br>Asphat<br>Play Surface to<br>Asphat<br>Play Surface to<br>Asphat<br>to Grass<br>Asphat to Grass<br>Asphat to Grass<br>Asphat to Grass<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                            | Fill subsoil to proposed<br>subgrade<br>Place 9 in gravel base out to<br>6 in from pavement edge<br>Place 3 in asphalt<br>Place 3 in topsoil over 6 in<br>wide gravel edge<br>Excavate 12in asphalt<br>Cut subsoil to proposed<br>subgrade<br>Place 6 in topsoil<br>Place 6 in topsoil<br>Cut subsoil to proposed<br>subgrade<br>Place 6 in topsoil<br>Cut subsoil to proposed<br>subgrade<br>Place 6 in topsoil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%             | 7              |
|      | Play Surface to<br>Asphat<br>Play Surface to<br>Asphat<br>Play Surface to<br>Asphat to Grass<br>Asphalt to Grass<br>Asphalt to Grass<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                                                                            | Fill subsoli to proposed<br>subgrade         Place 9 in gravel base out to<br>6 in from pavement edge         Place 3 in asphati         Place 3 in bopsoli over 6 in<br>wide gravel edge         Excavate 12n asphalt         Cut subsoli to proposed<br>subgrade         Place 6 in topsoli         Strip 6 in topsoli         Cut subsoli to proposed<br>subgrade         Place 6 in topsoli         Cut subsoli to proposed<br>subgrade         Place 7 in topsoli         Cut subsoli to proposed<br>subgrade         Place 7 in topsoli         Place 7 in topsoli         Cut subsoli to proposed<br>subgrade         Place 12 in wood mulch play                                                                                                                                                                                                                                                                   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0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%             | -              |
|      | Play Surface to<br>Asphat<br>Play Surface to<br>Asphat<br>Play Surface to<br>Asphat to Grass<br>Asphat to Grass<br>Asphat to Grass<br>Asphat to Grass<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                                                            | Fill subsoil to proposed<br>subgrade<br>Place 3 in gravel base out to<br>6 in from pavement edge<br>Place 3 in asphat<br>Place 3 in topsoil over 6 in<br>wide gravel edge<br>Excavate 12 in asphat<br>Cut subsoil to proposed<br>subgrade<br>Place 6 in topsoil<br>Strip 6 in topsoil<br>Cut subsoil to proposed<br>subgrade<br>Place 6 in topsoil<br>Cut subsoil to proposed<br>subgrade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Ex-17 n<br>n/a<br>n/a<br>n/a<br>Ex-12 n<br>Ex-12 n<br>n/a<br>Ex-6in                                                                         | Pro-12in<br>Pro-12in<br>n/a<br>n/a<br>n/a<br>Pro-6in<br>Pro-6in<br>n/a<br>n/a<br>Pro-72in                                                                                                                                                                                | 1699                                                                       | varies<br>varies<br>-0.75<br>-0.25<br>1.00<br>varies<br>varies<br>-0.50<br>0.50<br>varies<br>varies                                                                        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0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%             | 3              |
|      | Play Surface to<br>Asphat<br>Play Surface to<br>Asphat<br>Play Surface to<br>Asphat<br>Asphat to Grass<br>Asphat to Grass<br>Asphat to Grass<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Gravel (for Pavement)<br>Place<br>Asphalt Place<br>Topsoli Place<br>Asphalt Excavate<br>Subsoli Excavate<br>Subsoli Place<br>Topsoli Place<br>Subsoli Excavate<br>Subsoli Excavate                                                                                                                                                                                                                  | Fill subsol to proposed<br>subgrade<br>Place 9 in gravel base out to<br>6 in from pavement edge<br>Place 3 in asphat<br>Place 3 in topsol over 6 in<br>wide gravel edge<br>Excavate 12 in asphalt<br>Cut subsol to proposed<br>subgrade<br>Place 6 in topsol<br>Strip 6 in topsol<br>Cut subsol to proposed<br>subgrade<br>Place 12 in wood mulch play<br>sufrace<br>Strip 6 in topsol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%       | 3              |
|      | Play Surface to<br>Asphat<br>Play Surface to<br>Asphat<br>Play Surface to<br>Asphat<br>Asphat to Grass<br>Asphat to Grass<br>Asphat to Grass<br>Grass to<br>Playsurface<br>Grass to<br>Corr rele<br>Grass to<br>Corr rele<br>Grass to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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                                                                                                            | Fill subsoli to proposed<br>subgrade<br>Place 3 in gravel base out to<br>Gin from pavement edge<br>Place 3 in asphatt<br>Place 3 in topsoli over Gin<br>wide gravel edge<br>Excavate 12in asphatt<br>Cut subsoli to proposed<br>subgrade<br>Place 6 in topsoli<br>Strip 6 in topsoli<br>Strip 6 in topsoli<br>Strip 6 in topsoli<br>Place 12/n wood mulch play<br>subgrade<br>Place 12/n wood mulch play<br>sufface<br>Strip 6 in topsoli<br>Cut subsoli to proposed<br>subgrade<br>Place 12/n wood mulch play<br>sufface<br>Strip 6 in topsoli<br>Cut subsoli to proposed<br>Strip 6 in topsoli<br>Cut subsoli to proposed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Ex-17n<br>n/a<br>n/a<br>n/a<br>Ex-12n<br>Ex-12n<br>n/a<br>Ex-6in<br>Ex-6in<br>n/a<br>n/a                                                    | Pro-12in<br>n/a<br>n/a<br>n/a<br>n/a<br>Pro-6in<br>Pro-6in<br>n/a<br>Pro-6in<br>n/a<br>Pro-12in<br>n/a<br>n/a                                                                                                                                                            | 1699<br>1699<br>1699<br>80                                                 | varies<br>varies<br>-0.75<br>-0.25<br>1.00<br>varies<br>varies<br>-0.50<br>0.50<br>varies<br>varies<br>-0.50<br>0.50<br>varies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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|      | Play Surface to<br>Asphat<br>Play Surface to<br>Asphat<br>Play Surface to<br>Asphat<br>Asphat to Grass<br>Asphalt to Grass<br>Asphalt to Grass<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Concrete<br>Grass to<br>Concrete<br>Grass to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                                                                                                            | Fill subsoil to proposed<br>subgrade<br>Place 9 in gravel base out to<br>6 in from pavement edge<br>Place 3 in asphalt<br>Place 3 in topsoil over 6 in<br>wide gravel edge<br>Excavate 12n asphalt<br>Cut subsoil to proposed<br>subgrade<br>Place 6 in topsoil<br>Strip 6 in topsoil<br>Cut subsoil to proposed<br>subgrade<br>Fill subsoil to proposed<br>subgrade<br>Fill subsoil to proposed<br>subgrade<br>Place 12n wood mulch play<br>surface<br>Strip 6 in topsoil<br>Cut subsoil to proposed<br>subgrade<br>Strip 6 in topsoil<br>Cut subsoil to proposed<br>subgrade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Ex-17n<br>n/a<br>n/a<br>n/a<br>Ex-12n<br>Ex-12n<br>n/a<br>Ex-20n<br>n/a<br>Ex-6in<br>Ex-6in                                                 | Pro-12in<br>Pro-12in<br>n/a<br>n/a<br>n/a<br>Pro-6in<br>n/a<br>Pro-6in<br>n/a<br>Pro-6in<br>n/a<br>Pro-12in<br>Pro-12in<br>n/a                                                                                                                                           | 1699<br>1699<br>1699                                                       | varies<br>varies<br>-0.75<br>-0.25<br>1.00<br>varies<br>varies<br>-0.50<br>0.50<br>varies<br>varies<br>-0.50<br>0.50<br>varies                                             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0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%       | -6             |
|      | Play Surface to<br>Asphat<br>Play Surface to<br>Asphat<br>Play Surface to<br>Asphat to Grass<br>Asphalt to Grass<br>Asphalt to Grass<br>Asphalt to Grass<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Concrete<br>Grass to<br>Concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Gravel (for Pavement) Place Asphalt Place Asphalt Place Asphalt Excavate Subsoil Excavate Subsoil Place Topsoil Place Topsoil Place Bubsoil Excavate Subsoil Place                                                        | Fill subsoli to proposed<br>subgrade<br>Place 3 in gravel base out to<br>Gin from pavement edge<br>Place 3 in asphatt<br>Place 3 in topsoli over Gin<br>wide gravel edge<br>Excavate 12in asphatt<br>Cut subsoli to proposed<br>subgrade<br>Place 6 in topsoli<br>Strip 6 in topsoli<br>Strip 6 in topsoli<br>Strip 6 in topsoli<br>Place 12/n wood mulch play<br>subgrade<br>Place 12/n wood mulch play<br>sufface<br>Strip 6 in topsoli<br>Cut subsoli to proposed<br>subgrade<br>Place 12/n wood mulch play<br>sufface<br>Strip 6 in topsoli<br>Cut subsoli to proposed<br>Strip 6 in topsoli<br>Cut subsoli to proposed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Ex-17n<br>n/a<br>n/a<br>n/a<br>Ex-12n<br>Ex-12n<br>n/a<br>Ex-6in<br>Ex-6in<br>n/a<br>n/a                                                    | Pro-12in<br>n/a<br>n/a<br>n/a<br>n/a<br>Pro-6in<br>Pro-6in<br>n/a<br>Pro-6in<br>n/a<br>Pro-12in<br>n/a<br>n/a                                                                                                                                                            | 1699<br>1699<br>1699<br>80                                                 | varies           varies           -0.75           -0.25           -0.25           -0.25           varies           varies           varies           varies           varies           -0.50           0.50           varies           -1.00           0.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>850<br>2015<br>-120<br>-1699<br>40                                        | 0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0                    | 0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%                   | -6             |
|      | Play Surface to<br>Asphat<br>Play Surface to<br>Asphat<br>Play Surface to<br>Asphat<br>Play Surface to<br>Asphat to Grass<br>Asphat to Grass<br>Grass to<br>Grass to<br>Playsurface<br>Grass to<br>Concrete<br>Grass to<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete | Gravel (for Pavement) Place Asphalt Place Asphalt Place Subsoil Excavate Subsoil Place Topsoil Place Topsoil Excavate Subsoil Excavate Subsoil Place Play Surface Place Topsoil Excavate Subsoil Place Subsoil Place Gravel (for Pavement)                                                                                                                                                          | Fill subsoli to proposed<br>subgrade<br>Place 9 in gravel base out to<br>6 in from pavement edge<br>Place 3 in asphatt<br>Place 3 in asphatt<br>Place 3 in topsoli over 6 in<br>wide gravel edge<br>Excavate 12 in asphatt<br>Cut subsoli to proposed<br>subgrade<br>Place 6 in topsoli<br>Strip 6 in topsoli<br>Cut subsoli to proposed<br>subgrade<br>Place 12 in wood mulch play<br>sufgrade<br>Place 12 in topsoli<br>Cut subsoli to proposed<br>subgrade<br>Place 12 in wood mulch play<br>sufgrade<br>Fill subsoli to proposed<br>subgrade<br>Place 10 proposed<br>Strip 6 in topsoli<br>Cut subsoli to proposed<br>subgrade<br>Fill subsoli to proposed<br>subgrade<br>Fill subsoli to proposed<br>subgrade<br>Fill subsoli to proposed<br>subgrade<br>Fill subsoli to proposed<br>subgrade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Ex-17 n<br>n/a<br>n/a<br>n/a<br>Ex-12 n<br>Ex-12 n<br>Ex-12 n<br>Ex-12 n<br>n/a<br>Ex-6in<br>Ex-6in<br>n/a<br>Ex-6in                        | Pro-12in           n/a           n/a           n/a           n/a           n/a           Pro-6in           Pro-6in           n/a           Pro-12in           n/a           n/a           n/a           n/a           pro-12in           n/a           pro-12in          | 1699<br>1699<br>1699<br>80<br>80<br>80<br>80                               | varies           -0.75           -0.25           -0.025           -0.025           1.000           varies           -0.501           0.502           varies           -1.000           0.500           varies           -1.000           0.500           varies           -1.000           0.500           varies                                                                                       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|      | Play Surface to<br>Asphat<br>Play Surface to<br>Asphat<br>Play Surface to<br>Asphat<br>Play Surface to<br>Asphat to Grass<br>Asphat to Grass<br>Asphat to Grass<br>Grass to<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Concrete<br>Grass to<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete   | Gravel (for Pavement) Place Asphalt Place Asphalt Place Subsoil Place Subsoil Place Topsoil Place Topsoil Place Topsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Place Play Surface Place Topsoil Excavate Subsoil Place Gravel (for Pavement) Place                                                                                                                                      | Fill subsoil to proposed<br>subgrade<br>Place 9 in gravel base out to<br>6 in from pavement edge<br>Place 3 in osphatt<br>Place 3 in topsoil over 6 in<br>wide gravel edge<br>Excevate 12n asphatt<br>Cut subsoil to proposed<br>subgrade<br>Place 6 in topsoil<br>Cut subsoil to proposed<br>subgrade<br>Place 6 in topsoil<br>Strip 6 in topsoil<br>Cut subsoil to proposed<br>subgrade<br>Place 12n wood mulch play<br>sufgrade<br>Place 12n wood mulch play<br>subgrade<br>Place 12n topsoil<br>Cut subsoil to proposed<br>subgrade<br>Place 12n wood mulch play<br>sufgrade<br>Fill subsoil to proposed<br>subgrade<br>Place 7 in gravel base<br>Place 7 in gravel base                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ex-17 n<br>n/a<br>n/a<br>n/a<br>Ex-12 n<br>Ex-12 n<br>n/a<br>Ex-6in<br>Ex-6in<br>Ex-6in<br>Ex-6in<br>n/a                                    | Pro-12in           n/a           n/a           n/a           n/a           Pro-6in           Pro-6in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           Pro-12in                                               | 1699<br>1699<br>1699<br>80<br>80<br>80<br>80<br>80                         | varies           -0.75           -0.25           -0.025           -0.50           varies           -0.50           varies           -1.00           varies           -1.00           varies           -1.00           varies           -1.00           0.50           varies           -1.00           0.50           varies                                                                                                          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|      | Play Surface to<br>Asphat<br>Play Surface to<br>Asphat<br>Play Surface to<br>Asphat<br>Play Surface to<br>Asphat to Grass<br>Asphat to Grass<br>Asphat to Grass<br>Grass to<br>Playsurface<br>Grass to<br>Concrete<br>Grass to<br>Concrete<br>Grass to<br>Concrete<br>Grass to<br>Concrete<br>Grass to<br>Concrete<br>Grass to<br>Concrete<br>Grass to<br>Concrete<br>Grass to<br>Concrete<br>Grass to<br>Concrete<br>Grass to<br>Concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                                                                                                            | Fill subsoli to proposed<br>subgrade<br>Place 9 in gravel base out to<br>6 in from pavement edge<br>Place 3 in asphatt<br>Place 3 in asphatt<br>Place 3 in topsoli over 6 in<br>wide gravel edge<br>Excavate 12 in asphatt<br>Cut subsoli to proposed<br>subgrade<br>Place 6 in topsoli<br>Strip 6 in topsoli<br>Cut subsoli to proposed<br>subgrade<br>Place 12 in wood mulch play<br>sufgrade<br>Place 12 in topsoli<br>Cut subsoli to proposed<br>subgrade<br>Place 12 in wood mulch play<br>sufgrade<br>Fill subsoli to proposed<br>subgrade<br>Place 10 proposed<br>Strip 6 in topsoli<br>Cut subsoli to proposed<br>subgrade<br>Fill subsoli to proposed<br>subgrade<br>Fill subsoli to proposed<br>subgrade<br>Fill subsoli to proposed<br>subgrade<br>Fill subsoli to proposed<br>subgrade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Ex-17 n<br>n/a<br>n/a<br>n/a<br>Ex-12 n<br>Ex-12 n<br>Ex-12 n<br>Ex-12 n<br>n/a<br>Ex-6in<br>Ex-6in<br>n/a<br>Ex-6in                        | Pro-12in           n/a           n/a           n/a           n/a           n/a           Pro-6in           Pro-6in           n/a           Pro-12in           n/a           n/a           n/a           n/a           pro-12in           n/a           pro-12in          | 1699<br>1699<br>1699<br>80<br>80<br>80<br>80                               | varies           -0.75           -0.25           -0.025           -0.025           1.000           varies           -0.501           0.502           varies           -1.000           0.500           varies           -1.000           0.500           varies           -1.000           0.500           varies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%                   |                |
|      | Play Surface to<br>Asphat<br>Play Surface to<br>Asphat<br>Play Surface to<br>Asphat<br>Play Surface to<br>Asphat to Grass<br>Asphat to Grass<br>Asphat to Grass<br>Grass to<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Concrete<br>Grass to<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete   | Gravel (for Pavement) Place Asphalt Place Asphalt Place Subsoil Excavate Subsoil Place Topsoil Place Topsoil Place Subsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Place Play Surface Place Topsoil Excavate Subsoil Place Gravel (for Pavement) Place Concrete Place                                                                                                                    | Fill subsoil to proposed<br>subgrade<br>Place 9 in gravel base out to<br>6 in from pavement edge<br>Place 3 in asphatt<br>Place 3 in topsoil over 6 in<br>wide gravel edge<br>Excevate 12n asphatt<br>Cut subsoil to proposed<br>subgrade<br>Place 6 in topsoil<br>Cut subsoil to proposed<br>subgrade<br>Place 6 in topsoil<br>Strip 6 in topsoil<br>Cut subsoil to proposed<br>subgrade<br>Place 12n wood mulch play<br>sufgrade<br>Place 7 in gravel base<br>Place 7 in gravel base<br>Place 5 in concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Ex-17 n<br>n/a<br>n/a<br>n/a<br>Ex-12 n<br>Ex-12 n<br>n/a<br>Ex-6in<br>Ex-6in<br>Ex-6in<br>Ex-6in<br>n/a                                    | Pro-12in           n/a           n/a           n/a           n/a           Pro-6in           Pro-6in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           Pro-12in                                               | 1699<br>1699<br>1699<br>80<br>80<br>80<br>80<br>80                         | varies           -0.75           -0.25           -0.025           -0.50           varies           -0.50           varies           -1.00           varies           -1.00           varies           -1.00           varies           -1.00           0.50           varies           -1.00           0.50           varies                                                                                                          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|      | Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt to Grass<br>Asphalt to Grass<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Concrete<br>Grass to<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concret   | Gravel (for Pavement) Place Asphalt Place Coppoil Place Asphalt Excavate Subsoil Excavate Subsoil Place Topsoil Place Topsoil Excavate Subsoil Excavate Subsoil Place Play Surface Place Topsoil Excavate Subsoil Place Gravel (for Pavement) Place Concrete Place Concrete Place Concrete Place Concrete Excavate                                                                                  | Fill subsoil to proposed<br>subgrade<br>Place 9 in gravel base out to<br>Gin from pavement edge<br>Place 3 in asphalt<br>Place 3 in hospoil over Gin<br>wide gravel edge<br>Excavate 12in asphalt<br>Cut subsoil to proposed<br>subgrade<br>Place 6 in topsoil<br>Strip Gin topsoil<br>Cut subsoil to proposed<br>subgrade<br>Fill subsoil to proposed<br>subgrade<br>Place 7 in gravel base<br>Place 5 in concrete<br>Excavate Gin con | Ex-17 n<br>n/a<br>n/a<br>n/a<br>Ex-12 n<br>Ex-12 n<br>Ex-21 n<br>n/a<br>Ex-6in<br>Ex-6in<br>Ex-6in<br>Ex-6in<br>n/a<br>n/a<br>Ex-6in<br>n/a | Pro-12in           n/a           n/a           n/a           n/a           Pro-6in           Pro-6in           Pro-6in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a | 1699<br>1699<br>1699<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80 | Varies<br>Varies<br>-0.75<br>-0.25<br>-0.25<br>1.00<br>Varies<br>Varies<br>Varies<br>-1.00<br>0.50<br>Varies<br>Varies<br>-1.00<br>0.50<br>Varies<br>Varies<br>-0.50<br>0.50<br>Varies<br>Varies<br>-0.50<br>0.50<br>Varies<br>Varies<br>-0.50<br>0.50<br>Varies<br>Varies<br>-0.50<br>0.50<br>Varies<br>Varies<br>-0.50<br>0.50<br>Varies<br>Varies<br>-0.50<br>0.50<br>Varies<br>Varies<br>Varies<br>Varies<br>-0.50<br>0.50<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                  | 0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0                    | 0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%       | 3<br>7<br>     |
|      | Play Surface to<br>Asphat<br>Play Surface to<br>Asphat<br>Play Surface to<br>Asphat<br>Play Surface to<br>Asphat to Grass<br>Asphat to Grass<br>Asphat to Grass<br>Grass to<br>Grass to<br>Concrete<br>Grass to<br>Concrete<br>Grass to<br>Concrete to<br>Playsurface<br>Grass to<br>Concrete to<br>Playsurface<br>Grass to<br>Concrete to<br>Playsurface<br>Grass to<br>Concrete to<br>Playsurface<br>Grass to<br>Concrete to<br>Playsurface<br>Concrete to<br>Playsurface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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Concrete Place Concrete Place Concrete Excavate Subsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Place | Fill subsoli to proposed<br>subgrade<br>Place 3 in gravel base out to<br>Gin from pavement edge<br>Place 3 in asphatt<br>Place 3 in topsoli over Gin<br>wide gravel edge<br>Excavate 12in asphatt<br>Cut subsoli to proposed<br>subgrade<br>Place 6 in topsoli<br>Cut subsoli to proposed<br>subgrade<br>Place 6 in topsoli<br>Cut subsoli to proposed<br>subgrade<br>Place 12in wood mulch play<br>sufface<br>Strip 6 in topsoli<br>Cut subsoli to proposed<br>subgrade<br>Place 12in wood mulch play<br>subgrade<br>Place 7 in gravel base<br>Place 5 in concrete<br>Excavate 6 in concrete<br>Cut subsoli to proposed<br>subgrade<br>Place 7 in gravel base<br>Place 5 in concrete<br>Excavate 6 in concrete<br>Excavate 6 in concrete<br>Subgrade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Ex-17 n<br>n/a<br>n/a<br>n/a<br>Ex-12 n<br>Ex-12 n<br>r/a<br>Ex-6in<br>Ex-6in<br>n/a<br>Ex-6in<br>n/a<br>n/a<br>Ex-6in<br>n/a               | Pro-12in           n/a           n/a           n/a           n/a           Pro-6in           Pro-6in           Pro-6in           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a                                                | 1699<br>1699<br>1699<br>80<br>80<br>80<br>80<br>80<br>80                   | Varies<br>Varies<br>-0.75<br>-0.25<br>-0.25<br>1.00<br>Varies<br>Varies<br>Varies<br>-1.00<br>0.50<br>Varies<br>Varies<br>-1.00<br>0.50<br>Varies<br>Varies<br>-0.50<br>0.50<br>Varies<br>Varies<br>-0.50<br>0.50<br>Varies<br>Varies<br>-0.50<br>0.50<br>Varies<br>Varies<br>-0.50<br>0.50<br>Varies<br>Varies<br>-0.50<br>0.50<br>Varies<br>Varies<br>-0.50<br>0.50<br>Varies<br>Varies<br>Varies<br>Varies<br>-0.50<br>0.50<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies<br>Varies | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>850<br>2015<br>-120<br>-1699<br>40<br>0<br>89<br>0<br>0<br>-46<br>33 | 0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0                    | 0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%       | 3<br>7<br>     |
|      | Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt to Grass<br>Asphalt to Grass<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Concrete<br>Grass to<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concrete<br>Concret   | Gravel (for Pavement) Place Asphalt Place Asphalt Place Subsoil Excavate Subsoil Place Topsoil Place Topsoil Place Subsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Place Play Surface Place Topsoil Excavate Subsoil Excavate Subsoil Place Gravel (for Pavement) Place Concrete Place Concrete Place Concrete Excavate Subsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Place | Fill subsoil to proposed<br>subgrade<br>Place 9 in gravel base out to<br>Gin from pavement edge<br>Place 3 in asphalt<br>Place 3 in asphalt<br>Place 3 in topsoil over Gin<br>wide gravel edge<br>Excavate 12in asphalt<br>Cut subsoil to proposed<br>subgrade<br>Place 6 in topsoil<br>Strip Gin topsoil<br>Cut subsoil to proposed<br>subgrade<br>Fill subsoil to proposed<br>subgrade<br>Place 7 in gravel base<br>Place 5 in concrete<br>Excavate Gin concrete<br>Excavate Gin concrete<br>Cut subsoil to proposed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ex-17 n<br>n/a<br>n/a<br>n/a<br>Ex-12 n<br>Ex-12 n<br>Ex-21 n<br>n/a<br>Ex-6in<br>Ex-6in<br>Ex-6in<br>Ex-6in<br>n/a<br>n/a<br>Ex-6in<br>n/a | Pro-12in           n/a           n/a           n/a           n/a           Pro-6in           Pro-6in           Pro-6in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a | 1699<br>1699<br>1699<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80 | varies           varies           -0.75           -0.225           -0.25           -0.25           1.00           varies           varies           -0.50           varies           -1.00           0.50           varies           -0.50           varies           -0.50           varies           -0.50           varies           -0.50           varies           -0.50           varies           -0.50           varies           -0.51           -0.52           -0.53           -0.54           -0.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                  | 0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0                    | 0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0% | 3377           |

| Reger Park Playground - Earthwor                            | k Quantities                               |
|-------------------------------------------------------------|--------------------------------------------|
| City of Madison, WI Public Works Contract                   |                                            |
| Date Revised:                                               | 5/3/2018                                   |
|                                                             |                                            |
| Dervied from more detailed spreadsheet avai                 | lable from Parks Div                       |
|                                                             |                                            |
| Computation Summary                                         |                                            |
| Positive volumes are cuts (material available)              | , negative volumes are fills (material nee |
|                                                             |                                            |
|                                                             |                                            |
| Row Labels 🔹                                                | Sum of Unfac-tored volume (cu yd)          |
| Asphalt Place                                               | -1.4                                       |
| Border Timbers Place (placeholder volume)                   | -2.4                                       |
| Gravel (for Pavement) Place                                 | -5.9                                       |
| Play Surface Excavate                                       | 109.9                                      |
| Play Surface Place                                          | -127.1                                     |
| Subsoil Excavate                                            | 208.2                                      |
| Subsoil Place                                               | -24.3                                      |
| Topsoil Excavate                                            | 86.4                                       |
| Topsoil Place                                               | -56.8                                      |
| Asphalt Excavate                                            | 0.0                                        |
| Concrete Excavate                                           | 0.6                                        |
| Concrete Place                                              | -1.2                                       |
| Grand Total                                                 | 186.0                                      |
| Bid Item                                                    | Quantity                                   |
| 20101 Everytian Out                                         | 100                                        |
| 20101 Excavation Cut<br>20104 - Excavation Cut - Pea Gravel | <u> </u>                                   |
| 20104 - Excavation Cut - Pea Graver                         | -184                                       |
| 20201 Fill<br>20221 Topsoil                                 | - 104                                      |
| 40102 Crushed Aggregate Base Course                         | 540                                        |
| Gradation No. 2 & 3                                         | 11.8                                       |
| STAUALIOTTINO. 2 & S                                        | 11.0                                       |
| 40201 3" Depth HMA Pavement Type E-0.3                      | 3.3                                        |
| 90003 - Playground Surfacing - Wood                         | 5.5                                        |
| Mulch                                                       | 140                                        |
|                                                             |                                            |
|                                                             |                                            |
|                                                             |                                            |

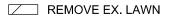


| 018         |       |                                       |                |
|-------------|-------|---------------------------------------|----------------|
|             |       |                                       |                |
|             |       |                                       |                |
|             |       |                                       |                |
| nee         | ded)  |                                       |                |
|             |       |                                       | pla            |
| /d)         |       |                                       | sι             |
| -1.4        |       |                                       | ιт             |
| -2.4        |       |                                       |                |
| -5.9        |       |                                       | $ \frac{A}{A}$ |
| 0.0         |       |                                       | _              |
| 27.1        |       |                                       | _              |
| 08.2        |       |                                       |                |
| 24.3        |       |                                       |                |
| 36.4        |       |                                       | -              |
| 56.8        |       |                                       | -              |
| 0.0         |       |                                       | -              |
| 0.6         |       |                                       |                |
| -1.2        |       |                                       | P              |
| <b>36.0</b> | Units |                                       | Ľ.             |
|             | CY    | Relation to Table Above               | 0              |
| 196         | CY    | =Subsoil Excavate + Topsoil Excavate  | SF             |
| 110         |       | = Play Surface Excavate               | 5              |
| 184         |       | = Subsoil Excavate - Subsoil Place    |                |
| 340         |       | = Topsoil Place/.167 (depth)          |                |
|             |       |                                       |                |
| 11.8        | TONS  | = (Gravel Place) * 2.0 ton/cubic yard |                |
|             |       |                                       |                |
| 3.3         | TONS  | = Asphalt Place * 2.16 ton/cubic yard | SF             |
|             |       |                                       |                |
| 140         | CY    | = Play Surface Place*1.10             |                |
|             |       |                                       |                |
|             |       |                                       |                |
|             |       |                                       | 1              |



M: |Maps|parks|WashManor|Playground 2018|BPW files|Washington Manor Playground\_2018.dgn

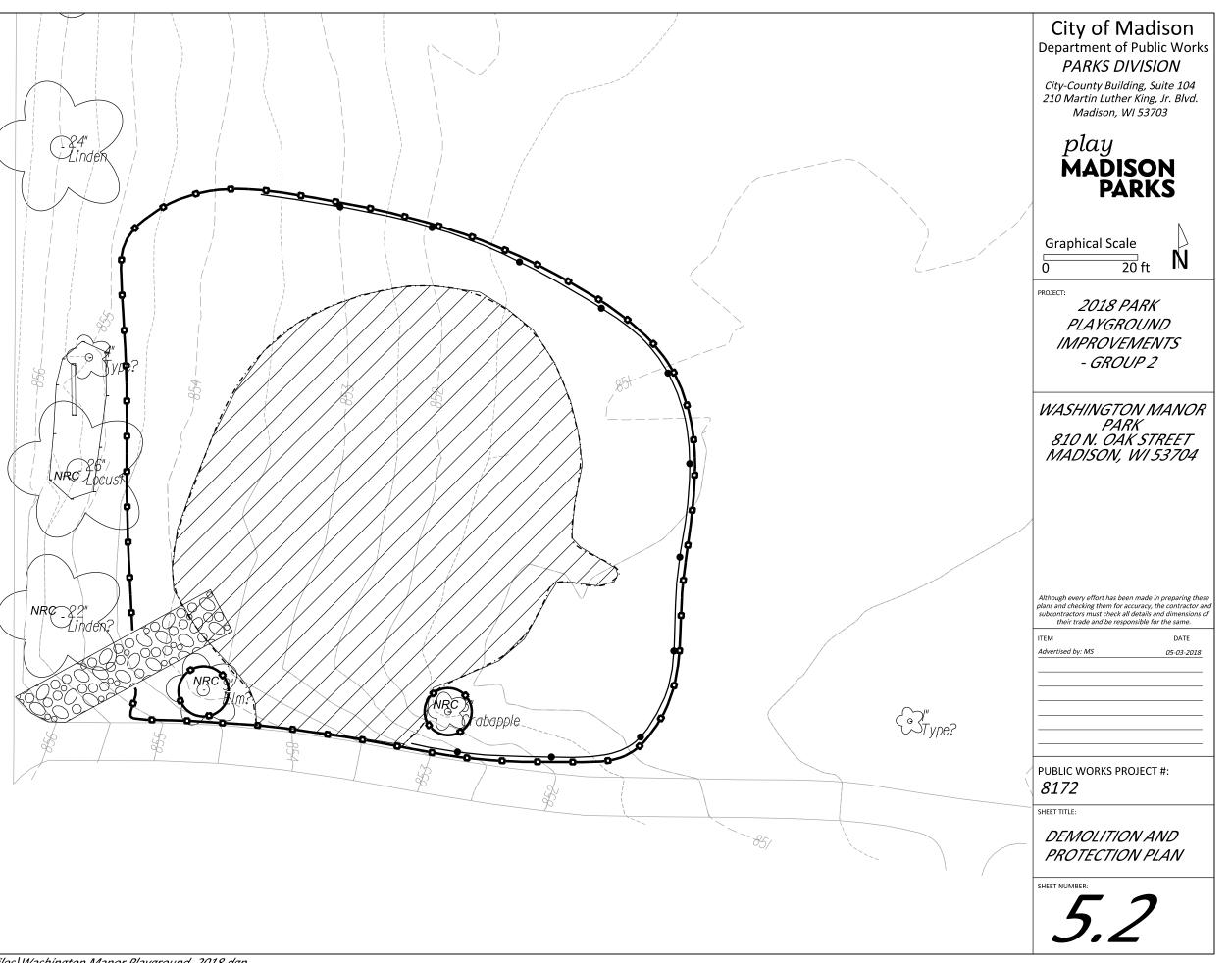
#### LEGEND

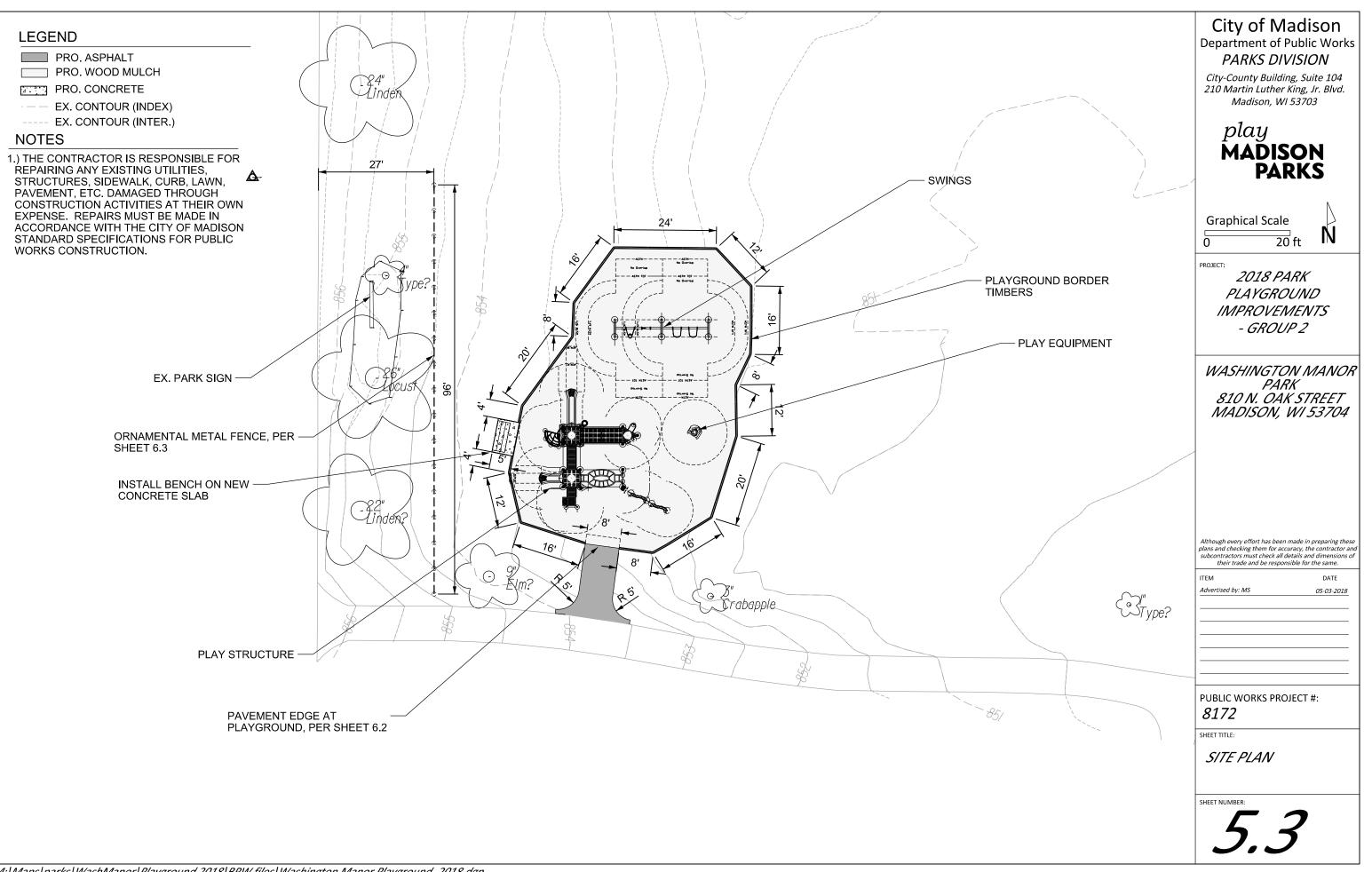


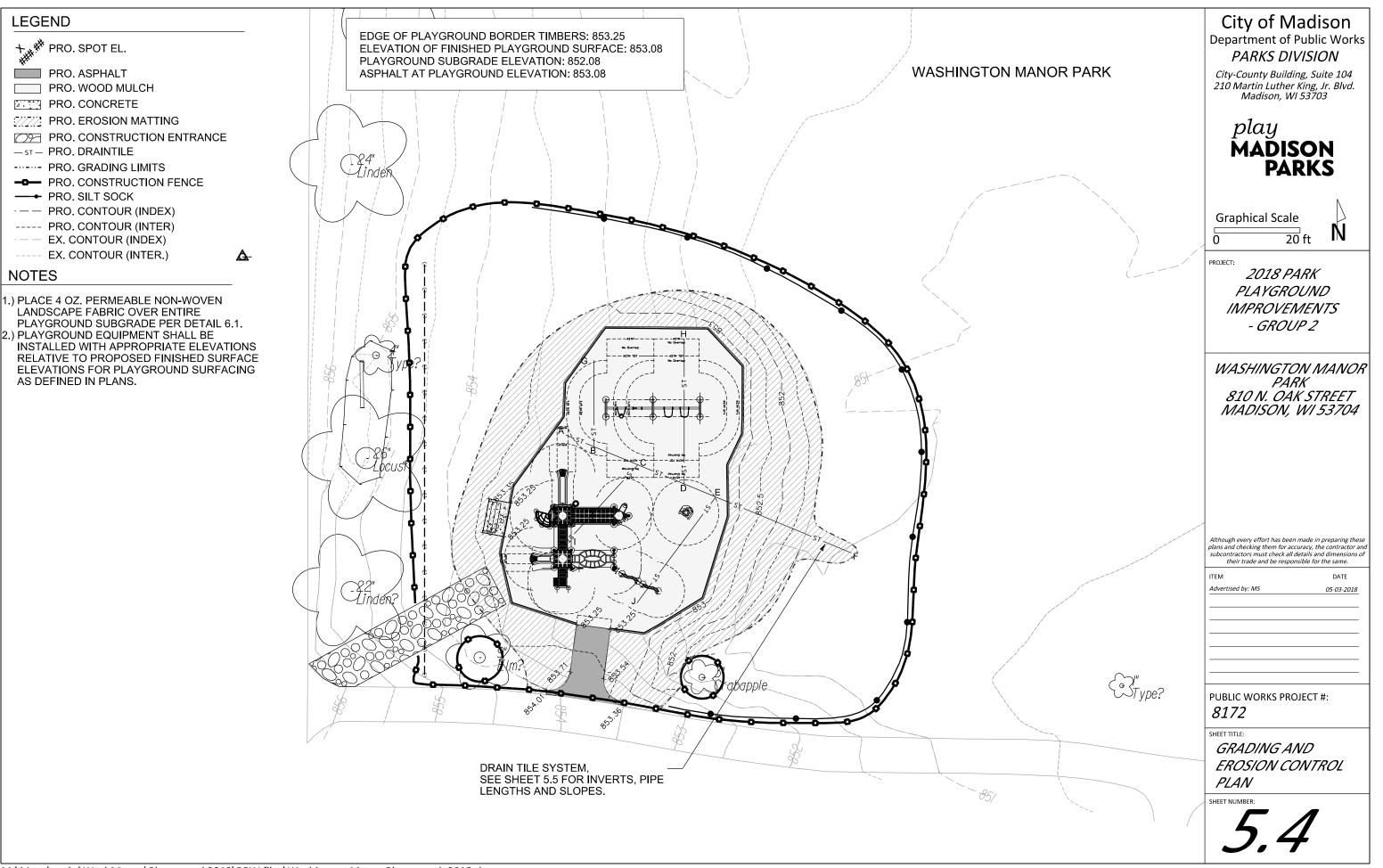
- PRO. CONSTRUCTION ENTRANCE
- NRC NO ROOT CUTTING PER BID ITEM 10803
- -D- PRO. CONSTRUCTION FENCE
- PRO. SILT SOCK
- -- EX. CONTOUR (INDEX)
- ----- EX. CONTOUR (INTER.)

#### NOTES

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







| Wá    | ashington Man     | or Park Playground                                 |            |     |
|-------|-------------------|----------------------------------------------------|------------|-----|
| Dra   | in Tile Invert (F |                                                    |            |     |
| Point | Invert (ft)       | Distance from top of<br>timbers 853.25<br>(INCHES) | Ahead leng | gth |
| Α     | 851.49            | 21.1                                               | 7.0        |     |
| В     | 851.43            | 21.8                                               | 11.2       |     |
| С     | 851.34            | 22.9                                               | 11.7       |     |
| D     | 851.25            | 24.0                                               | 8.0        |     |
| Е     | 851.18            | 24.8                                               | 34.3       |     |
| F     | 850.90            | 28.2                                               | 0.0        |     |
| G     | 851.49            | 21.1                                               | 20.1       |     |
| Н     | 851.49            | 21.1                                               | 33.9       |     |
| I     | 851.49            | 21.1                                               | 25.5       |     |
| J     | 851.49            | 21.1                                               | 30.8       |     |

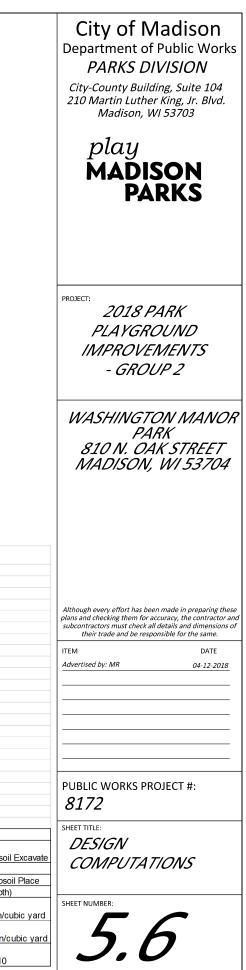
| Drain Tile Lengths & Slopes       |       |             |           |  |  |  |  |  |  |  |  |
|-----------------------------------|-------|-------------|-----------|--|--|--|--|--|--|--|--|
| from intersection to intersection |       |             |           |  |  |  |  |  |  |  |  |
| From                              | То    | Length (ft) | Slope (%) |  |  |  |  |  |  |  |  |
| А                                 | В     | 7.0         | -0.85     |  |  |  |  |  |  |  |  |
| В                                 | С     | 11.2        | -0.81     |  |  |  |  |  |  |  |  |
| С                                 | D     | 11.7        | -0.77     |  |  |  |  |  |  |  |  |
| D                                 | E     | 8.0         | -0.88     |  |  |  |  |  |  |  |  |
| E                                 | F     | 34.3        | -0.82     |  |  |  |  |  |  |  |  |
| G                                 | В     | 20.1        | -0.30     |  |  |  |  |  |  |  |  |
| Н                                 | D     | 34.0        | -0.71     |  |  |  |  |  |  |  |  |
| I                                 | С     | 25.5        | -0.59     |  |  |  |  |  |  |  |  |
| J                                 | E     | 30.8        | -1.01     |  |  |  |  |  |  |  |  |
|                                   | Total | 182.58      |           |  |  |  |  |  |  |  |  |
|                                   |       |             |           |  |  |  |  |  |  |  |  |

| Pipe type  |
|------------|
| Underdrain |

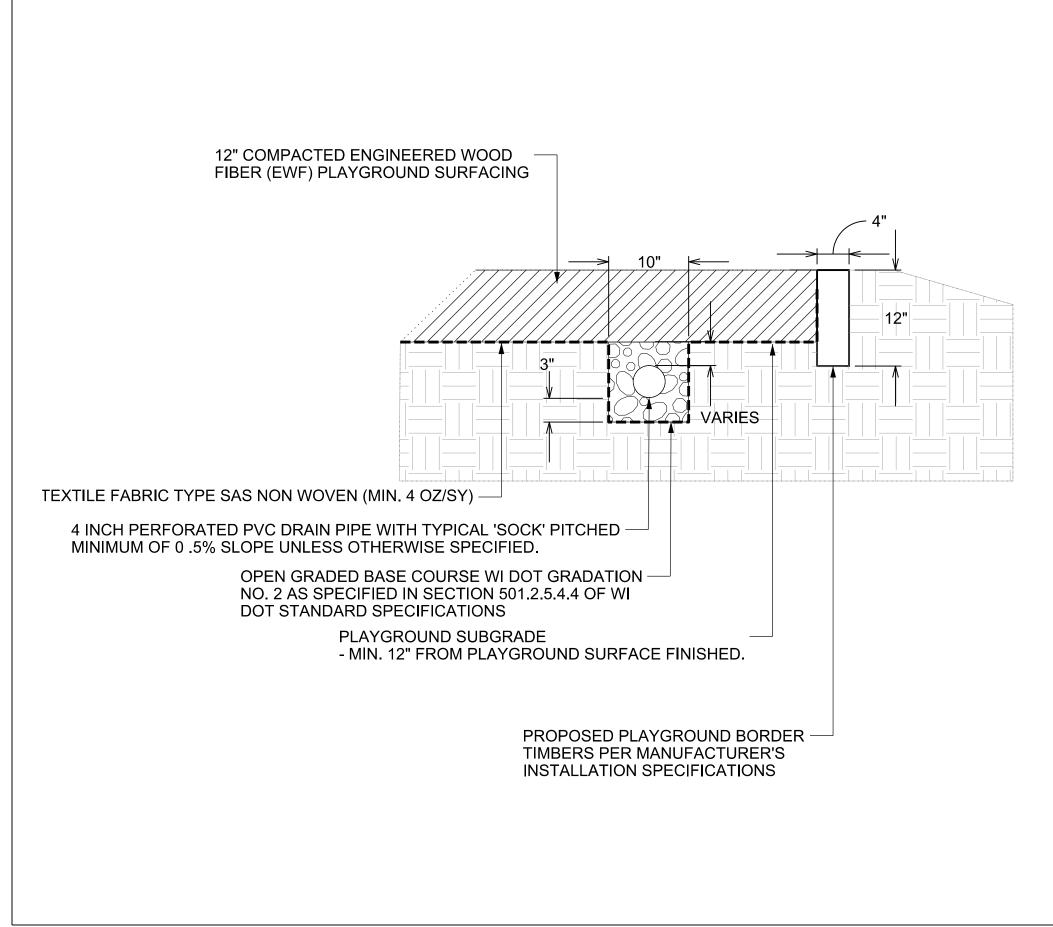
| City of Madison<br>Department of Public Works<br>PARKS DIVISION<br>City-County Building, Suite 104<br>210 Martin Luther King, Jr. Blvd.<br>Madison, WI 53703<br>Play<br>MADISON<br>PARKS                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROJECT:<br>2018 PARK<br>PLAYGROUND<br>IMPROVEMENTS<br>- GROUP 2                                                                                                                                                                                                           |
| WASHINGTON MANOR<br>PARK<br>810 N. OAK STREET<br>MADISON, WI 53704                                                                                                                                                                                                         |
| Although every effort has been made in preparing these<br>plans and checking them for accuracy, the contractor and<br>subcontractors must check all details and dimensions of<br>their trade and be responsible for the same.<br>ITEM DATE<br>Advertised by: MR 05-03-2018 |
| PUBLIC WORKS PROJECT #:<br>8172<br>SHEET TITLE:<br>DRAIN TILE SCHEDULES                                                                                                                                                                                                    |
| SHEET NUMBER: 5.5                                                                                                                                                                                                                                                          |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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|   | Grass to Grass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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|   | Play Surface to<br>Grass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|   | Play Surface to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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|   | Grass to<br>Timbers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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|   | Grass to<br>Timbers<br>Grass to<br>Timbers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                                                 | Topsoil Excavate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Place 3in topsoil over 6in<br>wide gravel edge<br>Strip 6in topsoil<br>Fill subsoil to proposed<br>subgrade<br>Cut subsoil to proposed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | n/a<br>n/a                                                                                                                                                                                                               | n/a<br>n/a<br>Pro-12in                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 60                                                                              | -0.25<br>0.50<br>varies                                                                                                                                                                                                                                                 | 0<br>30                                                                                                               | 0.0                                                                                | 0%                                                 | 0.0<br>1.1<br>0.8                                                                  | City of Madison, WI Public Works Contract<br>Date Revised:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5/3/20                                                                                                                                                                                                                                                                                                                                                                                        |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Topsoil Excavate<br>Subsoil Place<br>Subsoil Excavate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Place 3in topsoil over 6in<br>wide gravel edge<br>Strip 6in topsoil<br>Fill subsoil to proposed<br>subgrade<br>Cut subsoil to proposed<br>subgrade<br>Place playground border                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | n/a<br>n/a<br>Ex-6in                                                                                                                                                                                                     | n/a<br>n/a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 60                                                                              | -0.25<br>0.50<br>varies                                                                                                                                                                                                                                                 | 0<br>30<br>20                                                                                                         | 0.0<br>1.1<br>0.8                                                                  | 0%<br>0%<br>0%                                     | 0.0                                                                                | City of Madison, WI Public Works Contract                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5/3/20                                                                                                                                                                                                                                                                                                                                                                                        |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Topsoil Excavate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Place 3in topsoil over 6in<br>wide gravel edge<br>Strip 6in topsoil<br>Fill subsoil to proposed<br>subgrade<br>Cut subsoil to proposed<br>subgrade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | n/a<br>n/a<br>Ex-6in                                                                                                                                                                                                     | n/a<br>n/a<br>Pro-12in<br>Pro-12in                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60                                                                              | -0.25<br>0.50<br>varies<br>varies                                                                                                                                                                                                                                       | 0<br>30<br>20                                                                                                         | 0.0<br>1.1<br>0.8<br>-1.2                                                          | 0%<br>0%<br>0%                                     | 0.0<br>1.1<br>0.8<br>-1.2                                                          | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5/3/20                                                                                                                                                                                                                                                                                                                                                                                        |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Topsoil Excavate<br>Subsoil Place<br>Subsoil Excavate<br>Border Timbers Place                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Place 3in topsoil over 6in<br>wide gravel edge<br>Strip 6in topsoil<br>Fill subsoil to proposed<br>subgrade<br>Cut subsoil to proposed<br>subgrade<br>Place playground border<br>timbers (placeholder volume<br>to balance volume comps)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | n/a<br>n/a<br>Ex-6in<br>Ex-6in                                                                                                                                                                                           | n/a<br>n/a<br>Pro-12in                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 60<br>60<br>60                                                                  | -0.25<br>0.50<br>varies<br>varies                                                                                                                                                                                                                                       | 0<br>30<br>20<br>-31                                                                                                  | 0.0<br>1.1<br>0.8<br>-1.2                                                          | 0%<br>0%<br>0%                                     | 0.0<br>1.1<br>0.8<br>-1.2                                                          | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5/3/20<br>lable from Parks Div                                                                                                                                                                                                                                                                                                                                                                |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Topsoil Excavate<br>Subsoil Place<br>Subsoil Excavate<br>Border Timbers Place                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Place 3in topsoil over 6in<br>wide gravel edge<br>Strip 6in topsoil<br>Fill subsoil to proposed<br>subgrade<br>Cut subsoil to proposed<br>subgrade<br>Place playground border<br>timbers (placeholder volume                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | n/a<br>n/a<br>Ex-6in<br>Ex-6in                                                                                                                                                                                           | n/a<br>n/a<br>Pro-12in<br>Pro-12in                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60<br>60<br>60                                                                  | -0.25<br>0.50<br>varies<br>varies                                                                                                                                                                                                                                       | 0<br>30<br>20<br>-31                                                                                                  | 0.0<br>1.1<br>0.8<br>-1.2                                                          | 0%<br>0%<br>0%                                     | 0.0<br>1.1<br>0.8<br>-1.2                                                          | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5/3/20<br>lable from Parks Div                                                                                                                                                                                                                                                                                                                                                                |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Play Surface to<br>Asphalt<br>Play Surface to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Place 3in topsoil over 6in<br>wide gravel edge<br>Strip 6in topsoil<br>Fill subsoil to proposed<br>subgrade<br>Cut subsoil to proposed<br>subgrade<br>Place playground border<br>timbers (placeholder volume<br>to balance volume comps)<br>Remove existing play surface,<br>estimated depth 17in<br>Cut subsoil to proposed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | n/a<br>n/a<br>Ex-6in<br>Ex-6in<br>n/a                                                                                                                                                                                    | n/a<br>n/a<br>Pro-12in<br>Pro-12in<br>n/a<br>n/a                                                                                                                                                                                                                                                                                                                                                                                                                                               | 60<br>60<br>60                                                                  | -0.25<br>0.50<br>varies<br>varies<br>-1.00<br>1.42                                                                                                                                                                                                                      | 0<br>30<br>20<br>-31<br>-60                                                                                           | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0                                           | 0%<br>0%<br>0%<br>0%                               | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0                                           | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5/3/20<br>lable from Parks Div                                                                                                                                                                                                                                                                                                                                                                |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Play Surface to<br>Asphalt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Topsoil Excavate<br>Subsoil Place<br>Subsoil Excavate<br>Border Timbers Place<br>(placeholder volume)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Place 3in topsoil over 6in<br>wide gravel edge<br>Strip 6in topsoil<br>Fill subsoil to proposed<br>subgrade<br>Cut subsoil to proposed<br>subgrade<br>Place playground border<br>timbers (placeholder volume<br>to balance volume comps)<br>Remove existing play surface,<br>estimated depth 17in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | n/a<br>n/a<br>Ex-6in<br>Ex-6in<br>n/a                                                                                                                                                                                    | n/a<br>n/a<br>Pro-12in<br>Pro-12in<br>n/a                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 60<br>60<br>60                                                                  | -0.25<br>0.50<br>varies<br>varies<br>-1.00                                                                                                                                                                                                                              | 0<br>30<br>20<br>-31<br>-60                                                                                           | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2                                                  | 0%<br>0%<br>0%<br>0%                               | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0                                    | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary<br>Positive volumes are cuts (material available)<br>Row Labels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5/3/20<br>lable from Parks Div<br>negative volumes are fills (material<br>Sum of Unfac-tored volume (cu y                                                                                                                                                                                                                                                                                     |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Topsoil Excavate<br>Subsoil Place<br>Subsoil Excavate<br>Border Timbers Place<br>(placeholder volume)<br>Play Surface Excavate<br>Subsoil Excavate<br>Subsoil Place                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Place 3in topsoil over 6in<br>wide gravel edge<br>Strip 6in topsoil<br>Fill subsoil to proposed<br>subgrade<br>Cut subsoil to proposed<br>subgrade<br>Place playground border<br>timbers (placeholder volume<br>to balance volume comps)<br>Remove existing play surface,<br>estimated depth 17in<br>Cut subsoil to proposed<br>subgrade<br>Fill subsoil to proposed<br>subgrade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | n/a<br>n/a<br>Ex-6in<br>Ex-6in<br>n/a                                                                                                                                                                                    | n/a<br>n/a<br>Pro-12in<br>Pro-12in<br>n/a<br>n/a                                                                                                                                                                                                                                                                                                                                                                                                                                               | 60<br>60<br>60                                                                  | -0.25<br>0.50<br>varies<br>varies<br>-1.00<br>1.42                                                                                                                                                                                                                      | 0<br>30<br>20<br>-31<br>-60                                                                                           | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0                                           | 0%<br>0%<br>0%<br>0%                               | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0                                    | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary<br>Positive volumes are cuts (material available)<br>Row Labels<br>Asphalt Place                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5/3/20<br>lable from Parks Div<br>negative volumes are fills (material<br>Sum of Unfac-tored volume (cu y                                                                                                                                                                                                                                                                                     |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Topsoil Excavate<br>Subsoil Place<br>Subsoil Excavate<br>Border Timbers Place<br>(placeholder volume)<br>Play Surface Excavate<br>Subsoil Excavate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Place 3in topsoil over 6in<br>wide gravel edge<br>Strip 6in topsoil<br>Fill subsoil to proposed<br>subgrade<br>Cut subsoil to proposed<br>subgrade<br>Place plaground border<br>timbers (placeholder volume<br>to balance volume comps)<br>Remove existing play surface,<br>estimated depth 17in<br>Cut subsoil to proposed<br>subgrade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | n/a<br>n/a<br>Ex-6in<br>Ex-6in<br>n/a<br>Ex-17n                                                                                                                                                                          | n/a<br>n/a<br>Pro-12in<br>Pro-12in<br>n/a<br>n/a<br>Pro-12in                                                                                                                                                                                                                                                                                                                                                                                                                                   | 60<br>60<br>60                                                                  | -0.25<br>0.50<br>varies<br>varies<br>-1.00<br>1.42<br>varies                                                                                                                                                                                                            | 0<br>30<br>20<br>-31<br>-60                                                                                           | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0                                    | 0%<br>0%<br>0%<br>0%<br>0%                         | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0                                    | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary<br>Positive volumes are cuts (material available)<br>Row Labels<br>Asphalt Place<br>Border Timbers Place (placeholder volume)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5/3/20<br>lable from Parks Div<br>negative volumes are fills (material<br><b>Sum of Unfac-tored volume (cu y</b><br>-                                                                                                                                                                                                                                                                         |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Subsoil Place Gravel (for Pavement) Place                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Place 3in topsoil over 6in<br>wide gravel edge<br>Strip 6in topsoil<br>Fill subsoil to proposed<br>subgrade<br>Cut subsoil to proposed<br>subgrade<br>Place playground border<br>timbers (placeholder volume<br>to balance volume comps)<br>Remove existing play surface,<br>estimated depth 17in<br>Cut subsoil to proposed<br>subgrade<br>Fill subsoil to proposed<br>subgrade<br>Place 9in gravel base out to<br>6in from pavement edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | n/a<br>n/a<br>Ex-6in<br>Ex-6in<br>n/a<br>Ex-17n<br>Ex-17n<br>Ex-17in<br>n/a                                                                                                                                              | n/a<br>n/a<br>Pro-12in<br>Pro-12in<br>n/a<br>Pro-12in<br>Pro-12in<br>Pro-12in<br>n/a                                                                                                                                                                                                                                                                                                                                                                                                           | 60<br>60<br>60                                                                  | -0.25<br>0.50<br>varies<br>varies<br>-1.00<br>1.42<br>varies<br>varies<br>-0.75                                                                                                                                                                                         | 0<br>30<br>20<br>-31<br>-60<br>0                                                                                      | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0               | 0%<br>0%<br>0%<br>0%<br>0%<br>0%                   | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0                      | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary<br>Positive volumes are cuts (material available)<br>Row Labels<br>Asphalt Place<br>Border Timbers Place (placeholder volume)<br>Gravel (for Pavement) Place                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5/3/20<br>lable from Parks Div<br>negative volumes are fills (material<br>Sum of Unfac-tored volume (cu y                                                                                                                                                                                                                                                                                     |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Topsoil Excavate<br>Subsoil Place<br>Subsoil Excavate<br>Border Timbers Place<br>(placeholder volume)<br>Play Surface Excavate<br>Subsoil Excavate<br>Subsoil Place<br>Gravel (for Pavement)                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Place 3in topsoil over 6in<br>wide gravel edge<br>Strip 6in topsoil<br>Fill subsoil to proposed<br>subgrade<br>Cut subsoil to proposed<br>subgrade<br>Place playground border<br>timbers (placeholder volume<br>to balance volume comps)<br>Remove existing play surface,<br>estimated depth 17in<br>Cut subsoil to proposed<br>subgrade<br>Fill subsoil to proposed<br>subgrade<br>Filas 6in gravel base out to<br>6in from pavement edge<br>Place 3in asphalt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | n/a<br>n/a<br>Ex-6in<br>Ex-6in<br>n/a<br>Ex-17n<br>Ex-17n                                                                                                                                                                | n/a<br>n/a<br>Pro-12in<br>Pro-12in<br>n/a<br>n/a<br>Pro-12in<br>Pro-12in                                                                                                                                                                                                                                                                                                                                                                                                                       | 60<br>60<br>60                                                                  | -0.25<br>0.50<br>varies<br>varies<br>-1.00<br>1.42<br>varies<br>varies                                                                                                                                                                                                  | 0<br>30<br>20<br>-31<br>-60                                                                                           | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0                             | 0%<br>0%<br>0%<br>0%<br>0%<br>0%                   | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0                      | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary<br>Positive volumes are cuts (material available)<br>Row Labels •<br>Asphalt Place<br>Border Timbers Place (placeholder volume)<br>Gravel (for Pavement) Place<br>Play Surface Excavate                                                                                                                                                                                                                                                                                                                                                                                                                          | 5/3/20<br>lable from Parks Div<br>negative volumes are fills (material<br>Sum of Unfac-tored volume (cu y<br>-<br>-                                                                                                                                                                                                                                                                           |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Subsoil Place Gravel (for Pavement) Place                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Place 3in topsoil over 6in<br>wide gravel edge<br>Strip 6in topsoil<br>Fill subsoil to proposed<br>subgrade<br>Cut subsoil to proposed<br>subgrade<br>Place playground border<br>timbers (placeholder volume<br>to balance volume comps)<br>Remove existing play surface,<br>estimated depth 17in<br>Cut subsoil to proposed<br>subgrade<br>Fill subsoil to proposed<br>subgrade<br>Place 9in gravel base out to<br>6in from pavement edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | n/a<br>n/a<br>Ex-6in<br>Ex-6in<br>n/a<br>Ex-17n<br>Ex-17n<br>Ex-17in<br>n/a                                                                                                                                              | n/a<br>n/a<br>Pro-12in<br>Pro-12in<br>n/a<br>Pro-12in<br>Pro-12in<br>Pro-12in<br>n/a                                                                                                                                                                                                                                                                                                                                                                                                           | 60<br>60<br>60                                                                  | -0.25<br>0.50<br>varies<br>varies<br>-1.00<br>1.42<br>varies<br>varies<br>-0.75                                                                                                                                                                                         | 0<br>30<br>20<br>-31<br>-60<br>0                                                                                      | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0               | 0%<br>0%<br>0%<br>0%<br>0%<br>0%                   | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0                      | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary<br>Positive volumes are cuts (material available)<br>Row Labels<br>Asphalt Place<br>Border Timbers Place (placeholder volume)<br>Gravel (for Pavement) Place<br>Play Surface Excavate<br>Play Surface Place                                                                                                                                                                                                                                                                                                                                                                                                      | 5/3/20<br>lable from Parks Div<br>negative volumes are fills (material<br>Sum of Unfac-tored volume (cu y<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>11                                                                                                                                                                                                                                       |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Topsoil Excavate<br>Subsoil Place<br>Subsoil Excavate<br>Border Timbers Place<br>(placeholder volume)<br>Play Surface Excavate<br>Subsoil Excavate<br>Subsoil Place<br>Gravel (for Pavement)<br>Place<br>Asphalt Place                                                                                                                                                                                                                                                                                                                                                                                                                                  | Place 3in topsoil over 6in<br>wide gravel edge<br>Strip 6in topsoil<br>Fill subsoil to proposed<br>subgrade<br>Cut subsoil to proposed<br>subgrade<br>Place playground border<br>timbers (placeholder volume<br>to balance volume comps)<br>Remove existing play surface,<br>estimated depth 17in<br>Cut subsoil to proposed<br>subgrade<br>Place 9in gravel base out to<br>6in from pavement edge<br>Place 3in asphalt<br>Place 3in topsoil over 6in<br>wide gravel edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | n/a<br>n/a<br>Ex-6in<br>Ex-6in<br>n/a<br>Ex-17n<br>Ex-17n<br>n/a<br>n/a                                                                                                                                                  | n/a<br>n/a<br>Pro-12in<br>n/a<br>n/a<br>Pro-12in<br>Pro-12in<br>Pro-12in<br>n/a<br>n/a<br>n/a                                                                                                                                                                                                                                                                                                                                                                                                  | 60<br>60<br>60                                                                  | -0.25<br>0.50<br>varies<br>varies<br>-1.00<br>1.42<br>varies<br>varies<br>varies<br>-0.75<br>-0.25<br>-0.25                                                                                                                                                             | 0<br>30<br>20<br>-31<br>-60<br>0<br>0<br>0<br>0                                                                       | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | 0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%             | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary<br>Positive volumes are cuts (material available)<br>Row Labels<br>Row Labels<br>Asphalt Place<br>Border Timbers Place (placeholder volume)<br>Gravel (for Pavement) Place<br>Play Surface Excavate<br>Play Surface Place                                                                                                                                                                                                                                                                                                                                                                                        | 5/3/20<br>lable from Parks Div<br>negative volumes are fills (material<br>Sum of Unfac-tored volume (cu y<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>11<br>3                                                                                                                                                                                                                                       |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Gravel (for Pavement) Place Asphalt Place Topsoil Place Asphalt Excavate                                                                                                                                                                                                                                                                                                                                                                                                                                               | Place 3in topsoil over 6in<br>wide gravel edge<br>Strip 6in topsoil<br>Fill subsoil to proposed<br>subgrade<br>Place playground border<br>timbers (placeholder volume<br>to balance volume comps)<br>Remove existing play surface,<br>estimated depth 17in<br>Cut subsoil to proposed<br>subgrade<br>Fill subsoil to proposed<br>subgrade<br>Place 0in gravel base out to<br>6in from pavement edge<br>Place 3in asphalt<br>Place 3in asphalt<br>Place 3in asphalt<br>Place 3in asphalt<br>Place 3in asphalt<br>Cut subsoil to proposed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | n/a<br>n/a<br>Ex-6in<br>Ex-6in<br>n/a<br>Ex-17in<br>n/a<br>n/a<br>n/a<br>n/a                                                                                                                                             | n/a<br>n/a<br>Pro-12in<br>n/a<br>n/a<br>Pro-12in<br>n/a<br>Pro-12in<br>n/a<br>n/a<br>n/a<br>n/a                                                                                                                                                                                                                                                                                                                                                                                                | 60<br>60<br>60                                                                  | -0.25<br>0.50<br>varies<br>varies<br>-1.00<br>1.42<br>varies<br>varies<br>-0.75<br>-0.25<br>-0.25<br>-0.25                                                                                                                                                              | 0<br>30<br>20<br>-31<br>-60<br>0<br>0<br>0<br>0<br>0<br>0                                                             | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | 0%<br>0%<br>0%<br>0%<br>0%<br>0%                   | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary<br>Positive volumes are cuts (material available)<br>Row Labels •<br>Asphalt Place<br>Border Timbers Place (placeholder volume)<br>Gravel (for Pavement) Place<br>Play Surface Excavate<br>Play Surface Place<br>Subsoil Excavate<br>Subsoil Excavate<br>Subsoil Excavate                                                                                                                                                                                                                                                                                                                                        | 5/3/20<br>lable from Parks Div<br>negative volumes are fills (material<br>Sum of Unfac-tored volume (cu y<br>-<br>-<br>-<br>-<br>11<br>3<br>-8                                                                                                                                                                                                                                                |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Topsoil Excavate<br>Subsoil Place<br>Subsoil Excavate<br>Border Timbers Place<br>(placeholder volume)<br>Play Surface Excavate<br>Subsoil Excavate<br>Subsoil Place<br>Gravel (for Pavement)<br>Place<br>Asphalt Place                                                                                                                                                                                                                                                                                                                                                                                                                                  | Place 3in topsoil over 6in         wide gravel edge         Strip 6in topsoil         Fill subsoil to proposed         subgrade         Cut subsoil to proposed         subgrade         Place playground border         timbers (placeholder volume<br>to balance volume comps)         Remove existing play surface,<br>estimated depth 17in         Cut subsoil to proposed         subgrade         Place 0in gravel base out to<br>6in from pavement edge         Place 3in asphalt         Place 3in topsoil over 6in         wide gravel edge         Excavate 12in asphalt         Cut subsoil to proposed         subgrade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | n/a<br>n/a<br>Ex-6in<br>Ex-6in<br>n/a<br>Ex-17n<br>Ex-17n<br>n/a<br>n/a                                                                                                                                                  | n/a<br>n/a<br>Pro-12in<br>n/a<br>n/a<br>Pro-12in<br>Pro-12in<br>Pro-12in<br>n/a<br>n/a<br>n/a                                                                                                                                                                                                                                                                                                                                                                                                  | 60<br>60<br>60                                                                  | -0.25<br>0.50<br>varies<br>varies<br>-1.00<br>1.42<br>varies<br>varies<br>varies<br>-0.75<br>-0.25<br>-0.25                                                                                                                                                             | 0<br>30<br>20<br>-31<br>-60<br>0<br>0<br>0<br>0<br>0<br>0                                                             | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | 0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%             | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary<br>Positive volumes are cuts (material available)<br>Row Labels<br>Asphalt Place<br>Border Timbers Place (placeholder volume)<br>Gravel (for Pavement) Place<br>Play Surface Excavate<br>Play Surface Place<br>Subsoil Excavate<br>Subsoil Excavate<br>Subsoil Excavate<br>Topsoil Excavate<br>Topsoil Excavate                                                                                                                                                                                                                                                                                                  | 5/3/20<br>able from Parks Div<br>negative volumes are fills (material<br><b>Sum of Unfac-tored volume (cu y</b><br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>11<br>-<br>3<br>-<br>11<br>-<br>3<br>-<br>11<br>-<br>5                                                                                                                                                                                  |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Gravel (for Pavement) Place Asphalt Place Asphalt Excavate Subsoil Excavate                                                                                                                                                                                                                                                                                                                                                                                                                                            | Place 3in topsoil over 6in<br>wide gravel edge<br>Strip 6in topsoil<br>Fill subsoil to proposed<br>subgrade<br>Place playground border<br>timbers (placeholder volume<br>to balance volume comps)<br>Remove existing play surface,<br>estimated depth 17in<br>Cut subsoil to proposed<br>subgrade<br>Fill subsoil to proposed<br>subgrade<br>Place 0in gravel base out to<br>6in from pavement edge<br>Place 3in asphalt<br>Place 3in asphalt<br>Place 3in asphalt<br>Place 3in asphalt<br>Place 3in asphalt<br>Cut subsoil to proposed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | n/a<br>n/a<br>Ex-6in<br>Ex-6in<br>n/a<br>Ex-17in<br>n/a<br>n/a<br>n/a<br>n/a                                                                                                                                             | n/a<br>n/a<br>Pro-12in<br>n/a<br>n/a<br>Pro-12in<br>n/a<br>Pro-12in<br>n/a<br>n/a<br>n/a<br>n/a                                                                                                                                                                                                                                                                                                                                                                                                | 60<br>60<br>60                                                                  | -0.25<br>0.50<br>varies<br>varies<br>-1.00<br>1.42<br>varies<br>varies<br>-0.75<br>-0.25<br>-0.25<br>-0.25                                                                                                                                                              | 0<br>30<br>20<br>-31<br>-60<br>0<br>0<br>0<br>0<br>0<br>0                                                             | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | 0%<br>0%<br>0%<br>0%<br>0%<br>0%                   | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary<br>Positive volumes are cuts (material available)<br>Row Labels •<br>Asphalt Place<br>Border Timbers Place (placeholder volume)<br>Gravel (for Pavement) Place<br>Play Surface Excavate<br>Play Surface Place<br>Subsoil Excavate<br>Subsoil Excavate<br>Subsoil Excavate<br>Topsoil Excavate<br>Topsoil Place<br>Asphalt Excavate                                                                                                                                                                                                                                                                               | 5/3/20<br>lable from Parks Div<br>negative volumes are fills (material<br>Sum of Unfac-tored volume (cu y<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>11<br>3<br>-8<br>11<br>-5                                                                                                                                                                                                 |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Asphalt to Grass<br>Asphalt to Grass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Gravel (for Pavement) Place Asphalt Place Topsoil Place Subsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Excavate                                                                                                                                                                                                                                                                                                                                                                                            | Place 3in topsoil over 6in wide gravel edge         Strip 6in topsoil         Fill subsoil to proposed subgrade         Cut subsoil to proposed         subgrade         Place playground border timbers (placeholder volume to balance volume to balance volume to balance volume to balance volume to subgrade         Remove existing play surface, estimated depth 17in         Cut subsoil to proposed subgrade         Place playground border timbers (placeholder volume to balance volume to to proposed subgrade         Place 3in topsoil to proposed       subgrade         Fill subsoil to proposed       subgrade         Fill subsoil to proposed       subgrade | n/a<br>n/a<br>Ex-6in<br>Ex-6in<br>n/a<br>Ex-17n<br>Ex-17n<br>n/a<br>n/a<br>Ex-17in<br>n/a<br>n/a<br>Ex-12in<br>Ex-12in                                                                                                   | n/a<br>n/a<br>Pro-12in<br>n/a<br>Pro-12in<br>n/a<br>Pro-12in<br>Pro-12in<br>n/a<br>n/a<br>n/a<br>n/a<br>n/a<br>Pro-6in<br>Pro-6in                                                                                                                                                                                                                                                                                                                                                              | 60<br>60<br>60                                                                  | -0.25<br>0.50<br>varies<br>varies<br>-1.00<br>1.42<br>varies<br>varies<br>-0.75<br>-0.25<br>1.00<br>varies<br>varies                                                                                                                                                    | 0<br>30<br>20<br>-31<br>-60<br>0<br>0<br>0<br>0<br>0<br>0                                                             | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | 0%<br>0%<br>0%<br>0%<br>0%<br>0%                   | 0.0<br>1.1<br>0.8<br>-1.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0    | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary<br>Positive volumes are cuts (material available)<br>Row Labels •<br>Asphalt Place<br>Border Timbers Place (placeholder volume)<br>Gravel (for Pavement) Place<br>Play Surface Excavate<br>Play Surface Place<br>Subsoil Excavate<br>Play Surface Place<br>Subsoil Excavate<br>Subsoil Place<br>Topsoil Place<br>Asphalt Excavate<br>Grand Total                                                                                                                                                                                                                                                                 | 5/3/20<br>lable from Parks Div<br>negative volumes are fills (material<br>Sum of Unfac-tored volume (cu y<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>11<br>3<br>-8<br>11<br>-5                                                                                                                                                                                                 |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Crass<br>Asphalt to Grass<br>Asphalt to Grass<br>Crass to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Gravel (for Pavement) Place Topsoil Place Copsoil Place Subsoil Excavate Subsoil Excavate Subsoil Place Topsoil Place                                                                                                                                                                                                                                                                                                                                                                                                  | Place 3in topsoil over 6in<br>wide gravel edge<br>Strip 6in topsoil<br>Fill subsoil to proposed<br>subgrade<br>Cut subsoil to proposed<br>subgrade<br>Place playground border<br>timbers (placeholder volume<br>to balance volume comps)<br>Remove existing play surface,<br>estimated depth 17in<br>Cut subsoil to proposed<br>subgrade<br>Fill subsoil to proposed<br>subgrade<br>Place 3in gravel base out to<br>6in from pavement edge<br>Place 3in gravel base out to<br>6in from pavement edge<br>Place 3in asphalt<br>Place 3in topsoil over 6in<br>wide gravel edge<br>Excavate 12in asphalt<br>Cut subsoil to proposed<br>subgrade<br>Fill subsoil to proposed<br>subgrade<br>Fill subsoil to proposed<br>subgrade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | n/a<br>n/a<br>Ex-6in<br>Ex-6in<br>n/a<br>Ex-17in<br>n/a<br>n/a<br>n/a<br>Ex-17in<br>n/a<br>n/a<br>Ex-12in<br>Ex-12in<br>Ex-12in                                                                                          | n/a<br>n/a<br>Pro-12in<br>n/a<br>n/a<br>Pro-12in<br>n/a<br>Pro-12in<br>n/a<br>n/a<br>n/a<br>n/a<br>Pro-6in<br>n/a                                                                                                                                                                                                                                                                                                                                                                              | 80<br>80<br>80<br>80<br>80                                                      | -0.25<br>0.50<br>varies<br>varies<br>-1.00<br>1.42<br>varies<br>varies<br>-0.75<br>-0.25<br>1.00<br>varies<br>varies<br>varies                                                                                                                                          | 0<br>30<br>20<br>-31<br>-60<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                              | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | 0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%             | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary<br>Positive volumes are cuts (material available)<br>Row Labels •<br>Asphalt Place<br>Border Timbers Place (placeholder volume)<br>Gravel (for Pavement) Place<br>Play Surface Excavate<br>Play Surface Place<br>Subsoil Excavate<br>Subsoil Excavate<br>Subsoil Excavate<br>Topsoil Excavate<br>Topsoil Place<br>Asphalt Excavate                                                                                                                                                                                                                                                                               | 5/3/20<br>lable from Parks Div<br>negative volumes are fills (material<br>Sum of Unfac-tored volume (cu y<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>11<br>3<br>-8<br>11<br>-5                                                                                                                                                                                                 |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Crass<br>Asphalt to Grass<br>Asphalt to Grass<br>Crass to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Gravel (for Pavement) Place Asphalt Place Topsoil Place Subsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Excavate                                                                                                                                                                                                                                                                                                                                                                                            | Place 3in topsoil over 6in         wide gravel edge         Strip 6in topsoil         Fill subsoil to proposed         subgrade         Cut subsoil to proposed         subgrade         Place playground border         timbers (placeholder volume         to balance volume comps)         Remove existing play surface,         estimated depth 17in         Cut subsoil to proposed         subgrade         Place playground border         fill subsoil to proposed         subgrade         Place 3in gravel base out to         6in from pavement edge         Place 3in topsoil over 6in         wide gravel edge         Excavate 12in asphalt         Cut subsoil to proposed         subgrade         Fill subsoil to proposed         subgrade         Place 6in topsoil         Strip 6in topsoil                                                                                                                                                                                                                                                                                                                                                                                                                                        | n/a<br>n/a<br>Ex-6in<br>Ex-6in<br>n/a<br>Ex-17n<br>Ex-17n<br>n/a<br>n/a<br>Ex-17in<br>n/a<br>n/a<br>Ex-12in<br>Ex-12in                                                                                                   | n/a<br>n/a<br>Pro-12in<br>n/a<br>Pro-12in<br>n/a<br>Pro-12in<br>Pro-12in<br>n/a<br>n/a<br>n/a<br>n/a<br>n/a<br>Pro-6in<br>Pro-6in                                                                                                                                                                                                                                                                                                                                                              | 60<br>60<br>60                                                                  | -0.25<br>0.50<br>varies<br>varies<br>-1.00<br>1.42<br>varies<br>varies<br>-0.75<br>-0.25<br>1.00<br>varies<br>varies<br>varies                                                                                                                                          | 0<br>30<br>20<br>-31<br>-60<br>0<br>0<br>0<br>0<br>0<br>0                                                             | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | 0%<br>0%<br>0%<br>0%<br>0%<br>0%                   | 0.0<br>1.1<br>0.8<br>-1.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0    | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary<br>Positive volumes are cuts (material available)<br>Row Labels<br>Row Labels<br>Row Labels<br>Row Labels<br>Row Labels<br>Row Labels<br>Row Labels<br>Row Labels<br>Row Labels<br>Row Labels<br>Play Surface Place<br>Play Surface Place<br>Play Surface Place<br>Subsoil Excavate<br>Play Surface Place<br>Subsoil Excavate<br>Subsoil Place<br>Topsoil Place<br>Asphalt Excavate<br>Grand Total<br>Reorganized into bid table items                                                                                                                                                                           | 5/3/20<br>lable from Parks Div<br>negative volumes are fills (material<br>Sum of Unfac-tored volume (cu y<br>-<br>-<br>-<br>-<br>-<br>11<br>-<br>3<br>-8<br>-11<br>-5<br>-11                                                                                                                                                                                                                  |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Crass<br>Asphalt to Grass<br>Asphalt to Grass<br>Crass to<br>Playsurface<br>Grass to<br>Playsurface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Gravel (for Pavement) Place Topsoil Place Copsoil Place Subsoil Excavate Subsoil Excavate Subsoil Place Topsoil Place                                                                                                                                                                                                                                                                                                                                                                                                  | Place 3in topsoil over 6in         wide gravel edge         Strip 6in topsoil         Fill subsoil to proposed         subgrade         Cut subsoil to proposed         subgrade         Place playground border         timbers (placeholder volume<br>to balance volume comps)         Remove existing play surface,<br>estimated depth 17in         Cut subsoil to proposed         subgrade         Fill subsoil to proposed         subgrade         Place 3in topsoil over 6in         wide gravel edge         Place 3in topsoil over 6in         wide gravel edge         Excavate 12in asphalt         Cut subsoil to proposed         subgrade         Fill subsoil to proposed         subgrade         Place 3in topsoil over 6in         wide gravel edge         Excavate 12in asphalt         Cut subsoil to proposed         subgrade         Place 6in topsoil         Strip 6in topsoil         Cut subsoil to proposed         subgrade                                                                                                                                                                                                                                                                                                                                                                                                                                                    | n/a<br>n/a<br>Ex-6in<br>Ex-6in<br>n/a<br>Ex-17in<br>n/a<br>n/a<br>n/a<br>Ex-17in<br>n/a<br>n/a<br>Ex-12in<br>Ex-12in<br>Ex-12in                                                                                          | n/a<br>n/a<br>Pro-12in<br>n/a<br>n/a<br>Pro-12in<br>n/a<br>Pro-12in<br>n/a<br>n/a<br>n/a<br>n/a<br>Pro-6in<br>n/a                                                                                                                                                                                                                                                                                                                                                                              | 80<br>80<br>80<br>80<br>80                                                      | -0.25<br>0.50<br>varies<br>varies<br>-1.00<br>1.42<br>varies<br>varies<br>-0.75<br>-0.25<br>-0.25<br>1.00<br>varies<br>varies<br>-0.50<br>0.50                                                                                                                          | 0<br>30<br>20<br>-31<br>-60<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                              | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | 0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%             | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary<br>Positive volumes are cuts (material available)<br>Row Labels •<br>Asphalt Place<br>Border Timbers Place (placeholder volume)<br>Gravel (for Pavement) Place<br>Play Surface Excavate<br>Play Surface Place<br>Subsoil Excavate<br>Play Surface Place<br>Subsoil Excavate<br>Subsoil Place<br>Topsoil Place<br>Asphalt Excavate<br>Grand Total                                                                                                                                                                                                                                                                 | 5/3/20<br>lable from Parks Div<br>negative volumes are fills (material<br>Sum of Unfac-tored volume (cu y<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>11<br>3<br>-8<br>11<br>-5                                                                                                                                                                                                      |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Crass<br>Grass to<br>Playsurface<br>Grass to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Gravel (for Pavement) Place Topsoil Place Subsoil Place Subsoil Excavate Subsoil Place Topsoil Place Topsoil Place                                                                                                                                                                                                                                                                                                                                                                                                     | Place 3in topsoil over 6in         wide gravel edge         Strip 6in topsoil         Fill subsoil to proposed         subgrade         Place playground border         timbers (placeholder volume to         bance volume comps)         Remove existing play surface, estimated depth 17in         Cut subsoil to proposed         subgrade         Place 9in gravel base out to 6in from pavement edge         Place 3in asphalt         Place 3in topsoil oproposed         subgrade         Place 6in topsoil         Cut subsoil to proposed         subgrade         Place 6in topsoil         Strip 6in topsoil         Cut subsoil to proposed         subgrade         Place 6in topsoil         Cut subsoil to proposed         subgrade         Place 6in topsoil         Cut subsoil to proposed         subgrade                                                                                                                                                                                                                                                                                                                                                           | n/a<br>n/a<br>Ex-6in<br>Ex-6in<br>n/a<br>Ex-17in<br>n/a<br>Ex-17in<br>n/a<br>n/a<br>Ex-12in<br>Ex-12in<br>Ex-12in<br>n/a                                                                                                 | n/a<br>n/a<br>Pro-12in<br>n/a<br>n/a<br>Pro-12in<br>n/a<br>Pro-12in<br>n/a<br>n/a<br>n/a<br>n/a<br>n/a<br>n/a<br>n/a<br>n/a<br>n/a<br>n/                                                                                                                                                                                                                                                                                                                                                       | 80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80                        | -0.25<br>0.50<br>varies<br>varies<br>-1.00<br>1.42<br>varies<br>varies<br>-0.75<br>-0.25<br>1.00<br>varies<br>-0.25<br>1.00<br>varies<br>-0.50<br>varies                                                                                                                | 0<br>30<br>20<br>-31<br>-60<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | 0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%       | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary<br>Positive volumes are cuts (material available)<br>Row Labels<br>Row Labels<br>Row Labels<br>Row Labels<br>Row Labels<br>Row Labels<br>Row Labels<br>Row Labels<br>Row Labels<br>Row Labels<br>Play Surface Place<br>Play Surface Place<br>Play Surface Place<br>Subsoil Excavate<br>Play Surface Place<br>Subsoil Excavate<br>Subsoil Place<br>Topsoil Place<br>Asphalt Excavate<br>Grand Total<br>Reorganized into bid table items                                                                                                                                                                           | 5/3/2<br>able from Parks Div<br>negative volumes are fills (material<br>Sum of Unfac-tored volume (cu y<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>11<br>-<br>-<br>-<br>11<br>-<br>-<br>11<br>-<br>-<br>11<br>-<br>-<br>11<br>-<br>-<br>11<br>-<br>-<br>11<br>-<br>-<br>-<br>11<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Clay Surface to<br>Asphalt<br>Clay Surface to<br>Asphalt<br>Clay Surface to<br>Asphalt to Grass<br>Asphalt to Grass<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Crass to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Subsoil Place Gravel (for Pavement) Place Asphalt Place Topsoil Place Subsoil Excavate Subsoil Excavate Subsoil Place Topsoil Place Topsoil Place Subsoil Place Subsoil Excavate Subsoil Place Topsoil Place Subsoil Place Subsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Excavate                                                                                                                                                                                                        | Place 3in topsoil over 6in         wide gravel edge         Strip 6in topsoil         Fill subsoil to proposed         subgrade         Cut subsoil to proposed         subgrade         Place playground border         timbers (placeholder volume<br>to balance volume comps)         Remove existing play surface,<br>estimated depth 17in         Cut subsoil to proposed         subgrade         Place of in gravel base out to<br>6in from pavement edge         Place 3in asphalt         Place 3in topsoil over 6in         wide gravel edge         Excavate 12in asphalt         Cut subsoil to proposed<br>subgrade         Fill subsoil to proposed<br>subgrade         Place 6in topsoil         Strip 6in topsoil         Strip 6in topsoil         Strip 6in topsoil         Place 12in wood mulch play                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | n/a<br>n/a<br>Ex-6in<br>Ex-6in<br>n/a<br>Ex-17n<br>Ex-17n<br>n/a<br>n/a<br>n/a<br>Ex-12in<br>Ex-12in<br>Ex-12in<br>n/a<br>Ex-12in<br>Ex-12in<br>Ex-12in<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A | n/a           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           n/a           n/a           n/a           Pro-6in           Pro-6in           n/a           Pro-12in                                                                                                                                                                                          | 80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>8 | -0.25<br>0.50<br>varies<br>varies<br>-1.00<br>1.42<br>varies<br>varies<br>-0.75<br>-0.25<br>-0.25<br>1.00<br>varies<br>varies<br>-0.50<br>0.50<br>varies<br>varies                                                                                                      | 0<br>30<br>20<br>-31<br>-60<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.0<br>1.1<br>0.8<br>-1.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0    | 0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0% | 0.0<br>1.1<br>0.8<br>-1.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0    | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary<br>Positive volumes are cuts (material available)<br>Row Labels<br>Row Labels<br>Play Surface Place<br>Play Surface Place (placeholder volume)<br>Gravel (for Pavement) Place<br>Play Surface Place<br>Subsoil Excavate<br>Play Surface Place<br>Subsoil Excavate<br>Subsoil Place<br>Topsoil Place<br>Asphalt Excavate<br>Grand Total<br>Reorganized into bid table items<br>Bid Item<br>20101 Excavation Cut<br>20104 - Excavation Cut | 5/3/20<br>able from Parks Div<br>negative volumes are fills (material<br>Sum of Unfac-tored volume (cu y<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                                                                                                                                       |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Comparison<br>Asphalt to Grass<br>Asphalt to Grass<br>Asphalt to Grass<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Subsoil Place Gravel (for Pavement) Place Asphalt Place Topsoil Place Subsoil Excavate Subsoil Place Topsoil Place Topsoil Place Topsoil Excavate Subsoil Excavate                                                                                                                                                                                                                                                                                                                                                     | Place 3in topsoil over 6in wide gravel edge         Strip 6in topsoil         Fill subsoil to proposed subgrade         Cut subsoil to proposed         subgrade         Place playground border timbers (placeholder volume to balance volume comps)         Remove existing play surface, estimated depth 17in         Cut subsoil to proposed         subgrade         Fill subsoil to proposed         subgrade         Fill subsoil to proposed         subgrade         Fill subsoil to proposed         subgrade         Place 3in topsoil over 6in wide gravel edge         Place 3in topsoil over 6in wide gravel edge         Cut subsoil to proposed         subgrade         Place 6in topsoil         Cut subsoil to proposed                                                                                                                                                                                                                                                                             | n/a<br>n/a<br>Ex-6in<br>Ex-6in<br>n/a<br>Ex-17in<br>n/a<br>Ex-17in<br>n/a<br>n/a<br>Ex-12in<br>n/a<br>Ex-12in<br>n/a<br>Ex-12in<br>n/a                                                                                   | n/a           n/a           Pro-12in           n/a           n/a           n/a           n/a           n/a           Pro-6in           n/a           Pro-12in                                                                                                                            | 80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80                        | -0.25<br>0.50<br>varies<br>varies<br>-1.00<br>1.42<br>varies<br>varies<br>-0.75<br>-0.25<br>-0.25<br>1.00<br>varies<br>varies<br>-0.50<br>0.50<br>varies<br>varies                                                                                                      | 0<br>30<br>20<br>-31<br>-60<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | 0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%       | 0.0<br>1.1<br>0.8<br>-1.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0    | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary<br>Positive volumes are cuts (material available)<br>Row Labels<br>Row Labels<br>Row Labels<br>Row Labels<br>Row Labels<br>Row Labels<br>Play Surface Place<br>Border Timbers Place (placeholder volume)<br>Gravel (for Pavement) Place<br>Play Surface Excavate<br>Play Surface Place<br>Subsoil Excavate<br>Play Surface Place<br>Subsoil Excavate<br>Subsoil Excavate<br>Subsoil Place<br>Topsoil Excavate<br>Subsoil Place<br>Asphalt Excavate<br>Grand Total<br>Reorganized into bid table items<br>Bid Item<br>20101 Excavation Cut<br>20104 - Excavation Cut - Pea Gravel<br>20201 Fill                   | 5/3/20 lable from Parks Div negative volumes are fills (material Sum of Unfac-tored volume (cu y                                                                                                                                                                                                                                                                                              |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt to Grass<br>Asphalt to Grass<br>Grass to<br>Playsurface<br>Grass to<br>Concrete | Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Subsoil Place Gravel (for Pavement) Place Asphalt Place Topsoil Place Subsoil Excavate Subsoil Excavate Subsoil Place Topsoil Place Topsoil Place Subsoil Place Subsoil Excavate Subsoil Place Topsoil Place Subsoil Place Subsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Excavate                                                                                                                                                                                                        | Place 3in topsoil over 6in         wide gravel edge         Strip 6in topsoil         Fill subsoil to proposed         subgrade         Cut subsoil to proposed         subgrade         Place playground border         timbers (placeholder volume<br>to balance volume comps)         Remove existing play surface,<br>estimated depth 17in         Cut subsoil to proposed         subgrade         Place playground border         fill subsoil to proposed         subgrade         Place 3in asphalt         Place 3in topsoil over 6in         wide gravel edge         Excavate 12in asphalt         Cut subsoil to proposed         subgrade         Fill subsoil to proposed         subgrade         Fill subsoil to proposed         subgrade         Fill subsoil to proposed         subgrade         Place 6in topsoil         Strip 6in topsoil         Strip 6in topsoil         Fill subsoil to proposed         subgrade         Place 2in wood mulch play         sufrace                                                                                                                                                                                                                                                                                                                                                                                                                | n/a<br>n/a<br>Ex-6in<br>Ex-6in<br>n/a<br>Ex-17n<br>Ex-17n<br>n/a<br>n/a<br>n/a<br>Ex-12in<br>Ex-12in<br>Ex-12in<br>n/a<br>Ex-12in<br>Ex-12in<br>Ex-12in<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A | n/a           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           n/a           n/a           n/a           Pro-6in           Pro-6in           n/a           Pro-12in                                                                                                                                                                                          | 80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>8 | -0.25<br>0.50<br>varies<br>-1.00<br>1.42<br>varies<br>varies<br>-0.75<br>-0.25<br>1.00<br>varies<br>varies<br>-0.50<br>0.50<br>varies<br>-0.50<br>varies<br>-0.50                                                                                                       | 0<br>30<br>20<br>-31<br>-60<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | 0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0% | 0.0<br>1.1<br>0.8<br>-1.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0    | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary<br>Positive volumes are cuts (material available)<br>Row Labels<br>Asphalt Place<br>Border Timbers Place (placeholder volume)<br>Gravel (for Pavement) Place<br>Play Surface Excavate<br>Play Surface Place<br>Subsoil Excavate<br>Topsoil Place<br>Topsoil Place<br>Asphalt Excavate<br>Topsoil Place<br>Asphalt Excavate<br>Grand Total<br>Reorganized into bid table items<br>Bid Item<br>20101 Excavation Cut<br>20104 - Excavation Cut - Pea Gravel<br>20221 Tiplsoil                                                                                                                                       | 5/3/20<br>lable from Parks Div<br>negative volumes are fills (material<br>Sum of Unfac-tored volume (cu y<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                                                                                                                                      |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Clay Surface to<br>Asphalt<br>Clay Surface to<br>Asphalt<br>Clay Surface to<br>Asphalt to Grass<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Concrete<br>Grass to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Gravel (for Pavement) Place Asphalt Place Topsoil Place Subsoil Place Subsoil Place Topsoil Excavate Subsoil Place Topsoil Excavate Subsoil Place Topsoil Excavate Subsoil Place Topsoil Excavate Subsoil Place Play Surface Place                                                                                                                                                                                                                                                                                     | Place 3in topsoil over 6in<br>wide gravel edge     Strip 6in topsoil     Fill subsoil to proposed<br>subgrade     Cut subsoil to proposed<br>subgrade     Place playground border<br>Imbers (placeholder volume<br>to balance volume comps)     Remove existing play surface,<br>estimated depth 17in<br>Cut subsoil to proposed<br>subgrade     Fill subsoil to proposed<br>subgrade     Place 0in gravel base out to<br>6in from pavement edge     Place 3in asphalt     Place 3in asphalt     Place 3in topsoil over 6in<br>wide gravel edge     Excavate 12in asphalt     Cut subsoil to proposed<br>subgrade     Place 0in topsoil     Strip 6in topsoil     Cut subsoil to proposed<br>subgrade     Place 0in topsoil     Cut subsoil to proposed<br>subgrade     Place 12in wood mulch play<br>surface     Strip 6in topsoil     Cut subsoil to proposed<br>subgrade     Strip 6in topsoil     Cut subsoil to proposed     subgrade     Place 12in wood mulch play<br>surface                                                                                                                                                                                                                                                                                                                                                                                                                          | n/a n/a Ex-6in Ex-6in n/a Ex-17in n/a n/a Ex-17in n/a n/a n/a Ex-12in Ex-12in n/a n/a Ex-12in n/a n/a Ex-12in n/a Ex-12in n/a Ex-6in Ex-6in Ex-6in N/a                                                                   | n/a           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-6in           n/a           Pro-12in           n/a           n/a           n/a           n/a           n/a           n/a        | 80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>8 | -0.25<br>0.50<br>varies<br>varies<br>-1.00<br>1.42<br>varies<br>varies<br>-0.75<br>-0.25<br>-0.25<br>-0.25<br>1.00<br>varies<br>varies<br>-0.50<br>0.50<br>varies<br>varies<br>-1.00                                                                                    | 0<br>30<br>20<br>-31<br>-60<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.0<br>1.1<br>0.8<br>-1.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0    | 0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0% | 0.0<br>1.1<br>0.8<br>-1.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0    | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary<br>Positive volumes are cuts (material available)<br>Row Labels<br>Asphalt Place<br>Border Timbers Place (placeholder volume)<br>Gravel (for Pavement) Place<br>Play Surface Excavate<br>Play Surface Excavate<br>Play Surface Place<br>Subsoil Place<br>Topsoil Place<br>Topsoil Place<br>Asphalt Excavate<br>Grand Total<br>Reorganized into bid table items<br>Bid Item<br>20101 Excavation Cut<br>20104 - Excavation Cut - Pea Gravel<br>20221 Fill<br>20221 Topsoil<br>40102 Crushed Aggregate Base Course                                                                                                  | 5/3/2<br>able from Parks Div<br>negative volumes are fills (material<br>Sum of Unfac-tored volume (cu y<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                                                                                                                                        |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Crass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Concrete<br>Grass to<br>Concrete<br>Grass to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Place Gravel (for Pavement) Place Asphalt Place Topsoil Place Subsoil Place Subsoil Place Topsoil Excavate Subsoil Excavate Subsoil Place Topsoil Excavate Subsoil Excavate                                                    | Place 3in topsoil over 6in<br>wide gravel edge           Strip 6in topsoil           Fill subsoil to proposed<br>subgrade           Cut subsoil to proposed<br>subgrade           Place playground border<br>timbers (placeholder volume<br>to balance volume comps)           Remove existing play surface,<br>estimated depth 17in           Cut subsoil to proposed<br>subgrade           Place 9in gravel base out to<br>6in from pavement edge           Place 3in asphalt           Place 3in topsoil over 6in<br>wide gravel edge           Excavate 12in asphalt           Cut subsoil to proposed<br>subgrade           Place 6in topsoil           Strip 6in topsoil           Cut subsoil to proposed<br>subgrade           Place 6in topsoil           Strip 6in topsoil           Strip 6in topsoil           Cut subsoil to proposed<br>subgrade           Place 6in topsoil           Strip 6in topsoil           Cut subsoil to proposed<br>subgrade           Place 12in wood mulch play<br>surface           Strip 6in topsoil           Cut subsoil to proposed<br>subgrade           Place 12in wood mulch play<br>surface           Strip 6in topsoil           Cut subsoil to proposed           Subgrade           Flace 5in topsoil           Cut subsoil to proposed           subgrade<                                                                                             | n/a n/a Ex-6in Ex-6in n/a Ex-17in Ex-17in n/a n/a n/a Ex-12in n/a n/a Ex-12in n/a n/a Ex-6in n/a n/a                                                                                                                     | n/a           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           n/a           n/a           Pro-6in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           Pro-12in | 80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80                        | -0.25<br>0.50<br>varies<br>varies<br>-1.00<br>1.42<br>varies<br>-0.75<br>-0.25<br>-0.25<br>1.00<br>varies<br>-0.50<br>varies<br>-0.50<br>varies<br>-0.50<br>varies<br>-0.50<br>varies                                                                                   | 0<br>30<br>20<br>-31<br>-60<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | 0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%             | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary<br>Positive volumes are cuts (material available)<br>Row Labels<br>Asphalt Place<br>Border Timbers Place (placeholder volume)<br>Gravel (for Pavement) Place<br>Play Surface Excavate<br>Play Surface Place<br>Subsoil Excavate<br>Topsoil Place<br>Topsoil Place<br>Asphalt Excavate<br>Topsoil Place<br>Asphalt Excavate<br>Grand Total<br>Reorganized into bid table items<br>Bid Item<br>20101 Excavation Cut<br>20104 - Excavation Cut - Pea Gravel<br>20221 Tiplsoil                                                                                                                                       | 5/3/20<br>able from Parks Div<br>negative volumes are fills (material<br>Sum of Unfac-tored volume (cu y<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                                                                                                                                       |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Chargen<br>Asphalt to Grass<br>Asphalt to Grass<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Concrete<br>Grass to<br>Concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Excavate Gravel (for Pavement) Place Asphalt Place Topsoil Place Subsoil Place Subsoil Place Topsoil Excavate Subsoil Place Topsoil Excavate Subsoil Place Play Surface Place Play Surface Place Subsoil Excavate Subsoil Excavate Subsoil Place Play Surface Place Subsoil Excavate Subsoil Excavate Subsoil Place Play Surface Place Subsoil Excavate Subsoil Excavate Subsoil Place Play Surface Place Play Surface Place Subsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Excavate Subsoil Place | Place 3in topsoil over 6in<br>wide gravel edge     Strip 6in topsoil     Fill subsoil to proposed     subgrade     Cut subsoil to proposed     subgrade     Place playground border     timbers (placeholder volume     to balance volume comps)     Remove existing play surface,     estimated depth 17in     Cut subsoil to proposed     subgrade     Fill subsoil to proposed     subgrade     Place 0 in gravel base out to     6in from pavement edge     Place 3in asphalt     Place 3in topsoil over 6in     wide gravel edge     Excavate 12in asphalt     Place 0 in topsoil     Cut subsoil to proposed     subgrade     Place 0 in topsoil     Strip 6in topsoil     Cut subsoil to proposed     subgrade     Place 0 in topsoil     Cut subsoil to proposed     subgrade     Place 12in asphalt     Cut subsoil to proposed     subgrade     Place 12in asphalt     Cut subsoil to proposed     subgrade     Place 12in asphalt     Cut subsoil to proposed     subgrade     Place 12in opposil     Cut subsoil to proposed     subgrade     Place 12in opposil     Cut subsoil to proposed     subgrade     Place 12in wood mulch play     subgrade     Place 12in opposil     Cut subsoil to proposed     subgrade                                                                                                                                                                             | n/a n/a Ex-6in Ex-6in n/a Ex-17in n/a n/a Ex-17in n/a n/a Ex-12in Ex-12in n/a Ex-12in n/a n/a Ex-12in n/a n/a Ex-12in n/a Ex-12in n/a Ex-6in Ex-6in Ex-6in N/a                                                           | n/a           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-6in           n/a           Pro-12in           n/a           n/a           n/a           n/a           n/a           n/a        | 80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>8 | -0.25<br>0.50<br>varies<br>varies<br>-1.00<br>1.42<br>varies<br>-0.75<br>-0.25<br>-0.25<br>1.00<br>varies<br>-0.50<br>varies<br>-0.50<br>varies<br>-0.50<br>varies<br>-0.50<br>varies                                                                                   | 0<br>30<br>20<br>-31<br>-60<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.0<br>1.1<br>0.8<br>-1.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0    | 0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0% | 0.0<br>1.1<br>0.8<br>-1.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0    | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary<br>Positive volumes are cuts (material available)<br>Row Labels •<br>Asphalt Place<br>Border Timbers Place (placeholder volume)<br>Gravel (for Pavement) Place<br>Play Surface Excavate<br>Play Surface Place<br>Subsoil Excavate<br>Subsoil Excavate<br>Subsoil Excavate<br>Subsoil Place<br>Asphalt Excavate<br>Grand Total<br>Reorganized into bid table items<br>Bid Item<br>20101 Excavation Cut<br>20104 - Excavation Cut - Pea Gravel<br>20201 Fill<br>20221 Topsoil<br>40102 Crushed Aggregate Base Course<br>Gradation No. 2 & 3                                                                        | 5/3/20<br>able from Parks Div<br>negative volumes are fills (material i<br>Sum of Unfac-tored volume (cu y<br>                                                                                                                                                                                                                                                                                |
|   | Grass to<br>Timbers<br>Grass to<br>Timbers<br>Grass to<br>Timbers<br>Play Surface to<br>Asphalt<br>Play Surface to<br>Asphalt<br>Crass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Playsurface<br>Grass to<br>Concrete<br>Grass to<br>Concrete<br>Grass to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Topsoil Excavate Subsoil Place Subsoil Excavate Border Timbers Place (placeholder volume) Play Surface Excavate Subsoil Place Gravel (for Pavement) Place Asphalt Place Topsoil Place Subsoil Place Subsoil Place Topsoil Excavate Subsoil Excavate Subsoil Place Topsoil Excavate Subsoil Excavate                                                    | Place 3in topsoil over 6in<br>wide gravel edge           Strip 6in topsoil           Fill subsoil to proposed<br>subgrade           Cut subsoil to proposed<br>subgrade           Place playground border<br>timbers (placeholder volume<br>to balance volume comps)           Remove existing play surface,<br>estimated depth 17in           Cut subsoil to proposed<br>subgrade           Place 9in gravel base out to<br>6in from pavement edge           Place 3in asphalt           Place 3in topsoil over 6in<br>wide gravel edge           Excavate 12in asphalt           Cut subsoil to proposed<br>subgrade           Place 6in topsoil           Strip 6in topsoil           Cut subsoil to proposed<br>subgrade           Place 6in topsoil           Strip 6in topsoil           Strip 6in topsoil           Cut subsoil to proposed<br>subgrade           Place 6in topsoil           Strip 6in topsoil           Cut subsoil to proposed<br>subgrade           Place 12in wood mulch play<br>surface           Strip 6in topsoil           Cut subsoil to proposed<br>subgrade           Place 12in wood mulch play<br>surface           Strip 6in topsoil           Cut subsoil to proposed           Subgrade           Flace 5in topsoil           Cut subsoil to proposed           subgrade<                                                                                             | n/a n/a Ex-6in Ex-6in n/a Ex-17in Ex-17in n/a n/a n/a Ex-12in n/a n/a Ex-12in n/a n/a Ex-6in n/a n/a                                                                                                                     | n/a           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           n/a           n/a           Pro-6in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           n/a           Pro-12in           Pro-12in | 80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80                        | -0.25<br>0.50<br>varies<br>varies<br>-1.00<br>1.42<br>varies<br>varies<br>-0.75<br>-0.25<br>-0.25<br>1.00<br>varies<br>varies<br>-0.50<br>varies<br>varies<br>-0.50<br>varies<br>varies<br>varies<br>varies<br>varies<br>varies<br>varies<br>varies<br>varies<br>varies | 0<br>30<br>20<br>-31<br>-60<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.0<br>1.1<br>0.8<br>-1.2<br>-2.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0 | 0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%             | 0.0<br>1.1<br>0.8<br>-1.2<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0    | City of Madison, WI Public Works Contract<br>Date Revised:<br>Dervied from more detailed spreadsheet avai<br>Computation Summary<br>Positive volumes are cuts (material available)<br>Row Labels<br>Asphalt Place<br>Border Timbers Place (placeholder volume)<br>Gravel (for Pavement) Place<br>Play Surface Excavate<br>Play Surface Excavate<br>Play Surface Place<br>Subsoil Place<br>Topsoil Place<br>Topsoil Place<br>Asphalt Excavate<br>Grand Total<br>Reorganized into bid table items<br>Bid Item<br>20101 Excavation Cut<br>20104 - Excavation Cut - Pea Gravel<br>20221 Fill<br>20221 Topsoil<br>40102 Crushed Aggregate Base Course                                                                                                  | 5/3/20<br>able from Parks Div<br>negative volumes are fills (material<br>Sum of Unfac-tored volume (cu y<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                                                                                                                                       |

M:|Maps|parks|WashManor|Playground 2018|BPW files|Washington Manor Playground\_2018.dgn

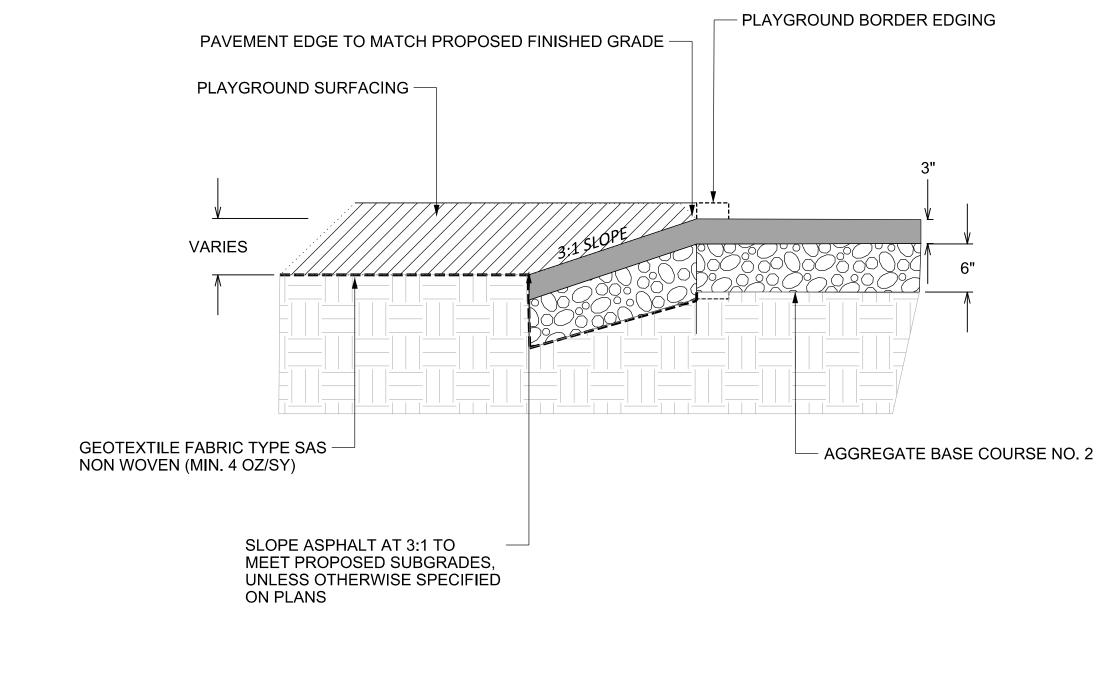


| 18  |       |                                       |   |
|-----|-------|---------------------------------------|---|
|     |       |                                       |   |
|     |       |                                       |   |
|     |       |                                       | 4 |
|     |       |                                       |   |
| nee | ded)  |                                       | F |
|     |       |                                       |   |
| d)  |       |                                       |   |
| 2.1 |       |                                       |   |
| 2.2 |       |                                       |   |
| 5.4 |       |                                       | 1 |
| 0.0 |       |                                       | ŀ |
| 1.5 |       |                                       |   |
| 2.9 |       |                                       | L |
| 7.3 |       |                                       |   |
| 7.1 |       |                                       | 1 |
| 6.5 |       |                                       | F |
| 0.0 |       |                                       |   |
| 5.0 |       |                                       |   |
|     |       |                                       |   |
|     | Units |                                       | E |
|     | CY    | Relation to Table Above               |   |
|     |       |                                       |   |
|     | CY    | =Subsoil Excavate + Topsoil Excavate  |   |
|     | CY    | = Play Surface Excavate               |   |
|     | CY    | = Subsoil Excavate - Subsoil Place    |   |
| 38  | SY    | = Topsoil Place/.167 (depth)          | ┢ |
|     |       |                                       |   |
| 0.7 | TONS  | = (Gravel Place) * 2.0 ton/cubic yard |   |
| 16  | TONS  | = Asphalt Place * 2.16 ton/cubic yard |   |
| +.0 |       | - Asphall Flace 2. 10 tor/cubic yard  |   |
| 23  | CY    | = Play Surface Place*1.10             |   |
|     |       |                                       | 1 |



F:|Paroot|Planning|Capital Projects|Playgrounds|2018 Capital Projects|Contract 2 - Mike|BPW Contract|Group2CoverSheetandDetails.dgn

City of Madison Department of Public Works PARKS DIVISION City-County Building, Suite 104 210 Martin Luther King, Jr. Blvd. Madison, WI 53703 play MAĎISON PARKS PROJECT: 2018 PARK PLAYGROUND IMPROVEMENTS-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 Advertised by: MS 05-03-2018 PUBLIC WORKS PROJECT #: 8172 SHEET TITLE: TYPICAL PLAYGROUND SURFACING WITH UNDERDRAIN SHEET NUMBER: h.



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: 2018 PARK PLAYGROUND IMPROVEMENTS-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 Advertised by: MS 05-03-2018 PUBLIC WORKS PROJECT #: 8172 SHEET TITLE: PAVEMENT EDGE AT PLAYGROUND SHEET NUMBER: 6.

