LEGEND

- © EX. ELECTRICAL HAND HOLE
- X EX. ELECTRICAL PEDESTAL
- EX. TELEPHONE PEDESTAL

 Output

 Description

 Output

 Description

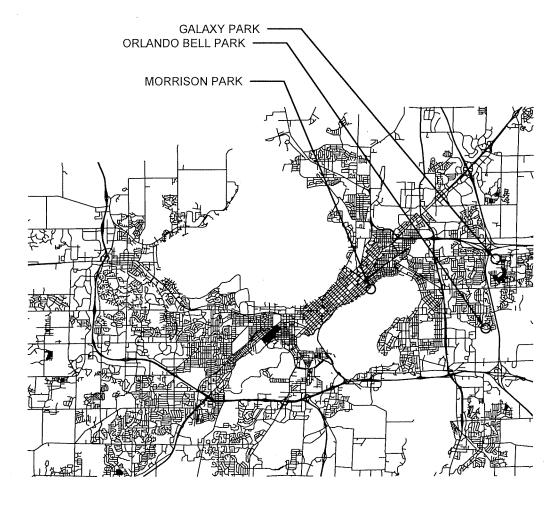
 Description
- €R EX. TREE
- EX. WATER HYDRANT
- ⊗ EX. WATER VALVE
- EX. PROPERTY LINE
- EX. EASEMENT
- EX. FENCE LINE
 - EX. CONTOUR (INDEX)
 - EX. CONTOUR (INTER)
 - EX. CONTOON (INTER)
- EX. ABANDONED UTILITY

 EX. ELECTRIC
 - EX. ELECTRIC
 - FO EX. FIBER OPTIC

 G EX. NATURAL GAS
- OH EX. OVERHEAD LINE
- SN EX. SANITARY SEWER
 - ST EX. STORM SEWER
 - TV ——— EX. CABLE TV
- T EX. UNDERGROUND TELEPHONE
- EX. WATER LINE
- I AI AI AI EN. GRAVEI
- EX. CONCRETE
- ____ PRO. CONTOUR (INTER)
 - ×——×— PRO. FENCE
 - PRO. GRADING LIMITS
 - PRO. SILT SOCK
 - PRO. CONSTRUCTION FENCE
- _____ ST _____ PRO. STORM SEWER
- PRO. ASPHALT
 - PRO. WOOD MULCH
- PRO. PEA GRAVEL
 - PRO. CONCRETE

 PRO. CONSTRUCTION ENTRANCE
- PRO. BOULDER RETAINING WALL
- REMOVE EX. ASPHALT

2020 PLAYGROUND IMPROVEMENTS -GROUP 3 MUNIS NOs. 12679-51-130 & 12680-51-130



DESIGNED BY:



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



SHEET SCHEDULE

1 GALAXY PARK

- 1.1 Project Location and Site Access
- 1.2 Existing Conditions
- 1.3 Demolition and Site Plan
- 1.4 Site Plan
- 1.5 Grading and Erosion Control Plan
- 1.6 Design Computations
- 1.7 Design Computations

2 MORRISON PARK

- 2.1 Project Location and Site Access
- 2.2 Existing Conditions
- 2.3 Demolition and Site Plan
- 2.4 Site Plan
- 2.5 Grading and Erosion Control Plan
- 2.6 Design Computations
- 2.7 Design Computations

3 ORLANDO BELL PARK

- 3.1 Project Location and Site Access
- 3.2 Existing Conditions
- 3.3 Demolition and Site Plan
- 3.4 Site Plan
- 3.5 Grading and Erosion Control Plan
- 3.6 Design Computations
- 3.7 Design Computations
- 3.8 Design Computations

4 DETAILS

4.1 Details- Playground and Pavement Edge

PROJECT

2020 PLAYGROUND IMPROVEMENTS -GROUP 3

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	TO BID: SC	06/18/2020

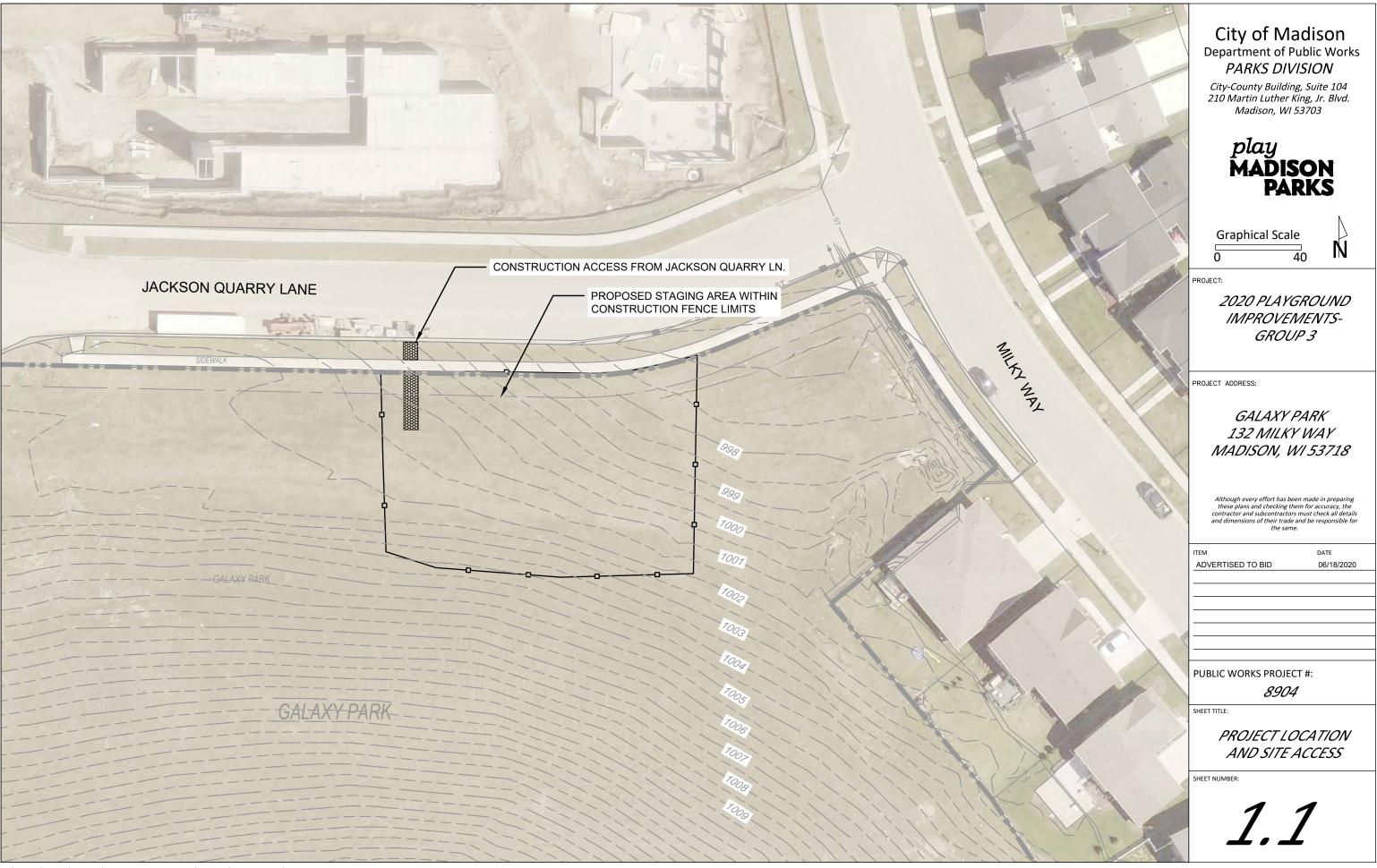
PUBLIC WORKS PROJECT #:

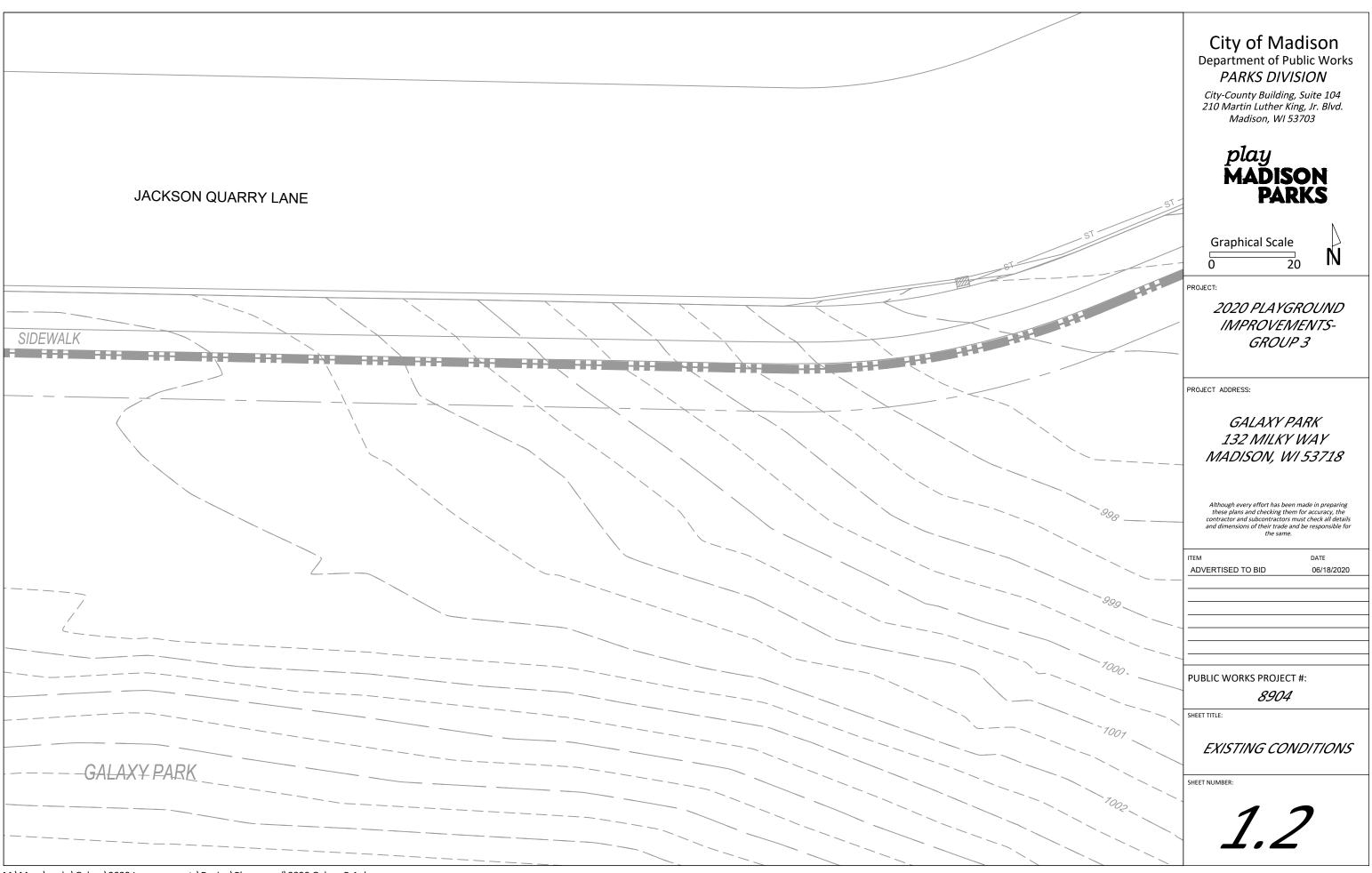
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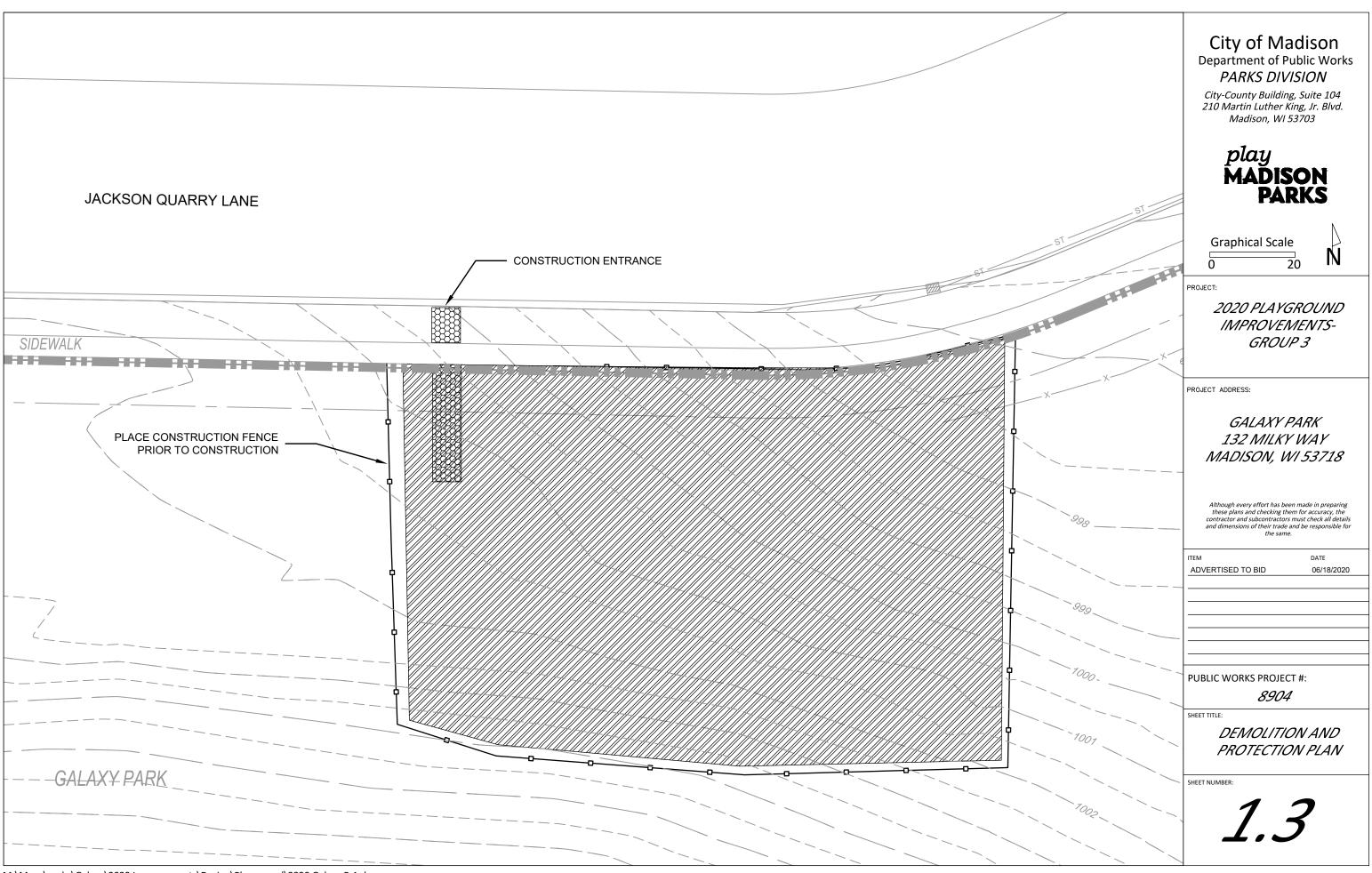
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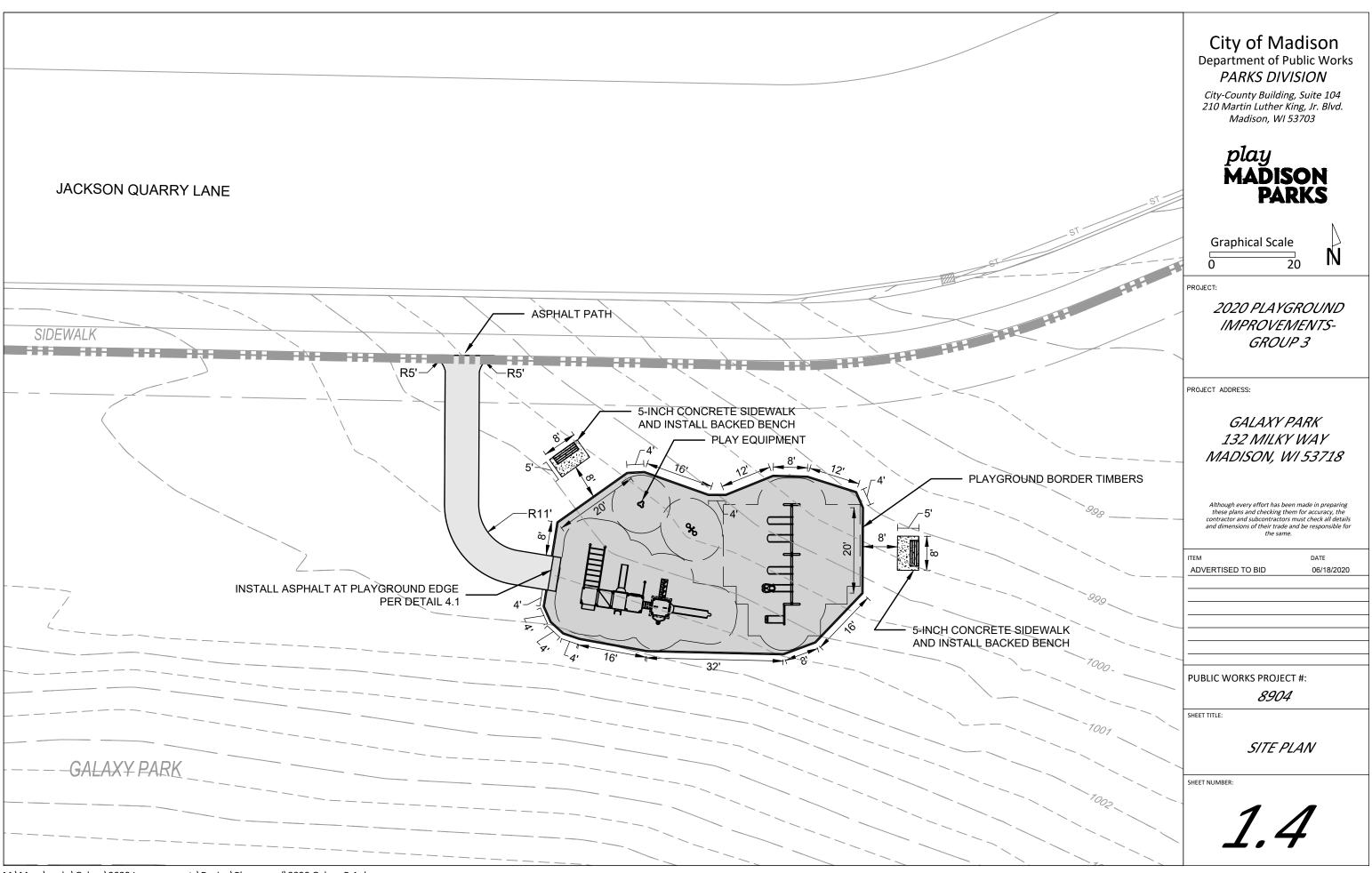
COVER SHEET

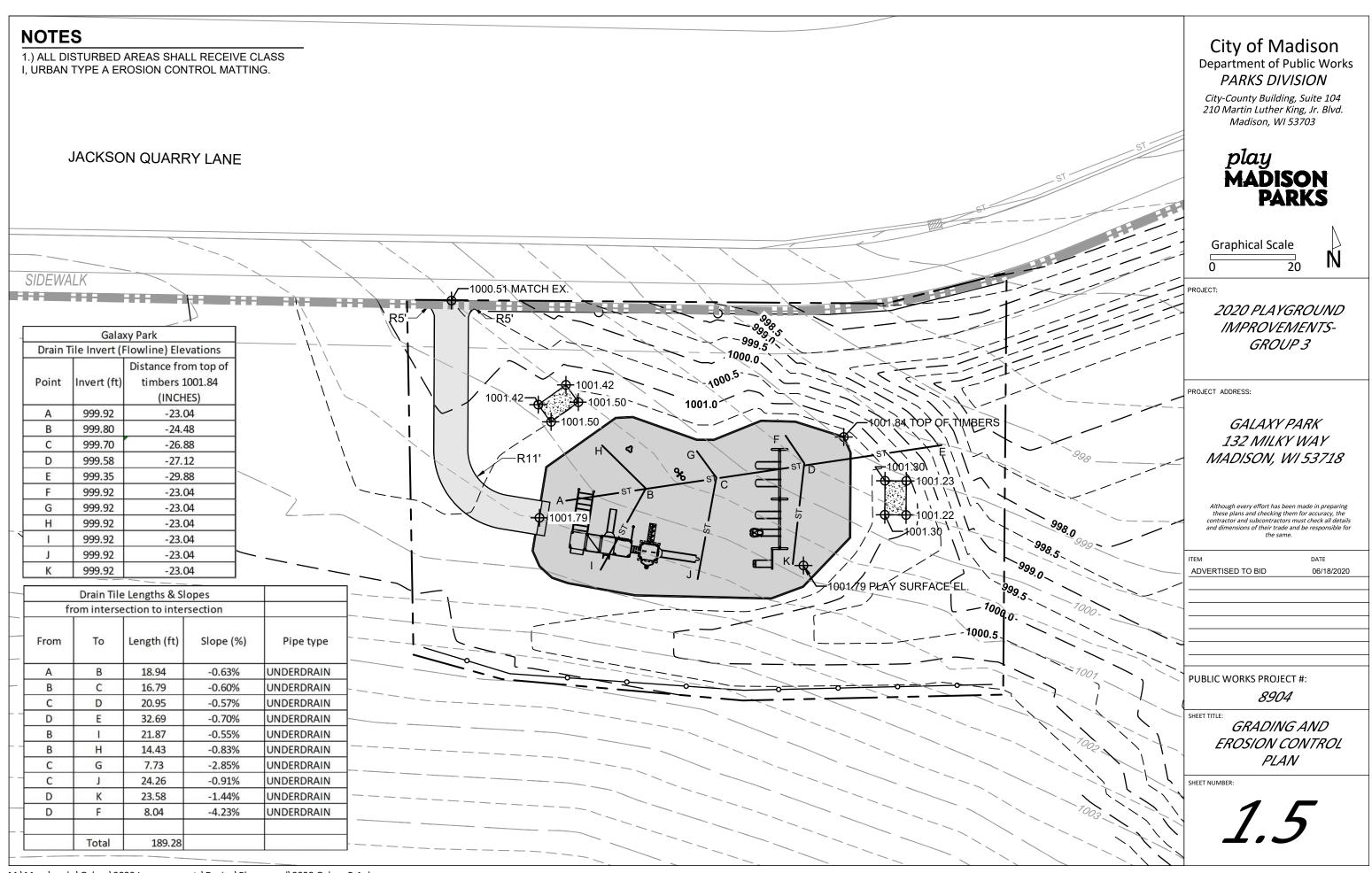
SHEET NUMBER:











Sort	Grp Grass to	M aterial	ltem	From Surface Model	To Surface Model	area (sq ft)	depth (ft)	Unfac- tored volume (cu ft)	Unfac- tored volume (cu yd)	Expan- sion Factor (%)	Factored (Uncom- pacted) Volume (cu yd)
1.1	Grass	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	9321.39	0.50	4660.70	172.6	0%	172.6
	Grass to	Toposii Externato	Cut subsoil to proposed		1000	002 1100	0.00	1000.70	11.2.0	9.0	.,
1.2	and the first of the second	Subsoil Excavate	subgrade	Ex-6in	Pro-6in	9321.39	varies	4285.47	158.7	0%	158.7
	Grass to	3000 30 0000 0000 0.1000 0000 0000 0000	Fill subsoil to proposed		7		N Section 100 more	2			
1.3	Grass	Subsoil Place	subgrade	Ex-6in	Pro-6in	9321.39	varies	-3563.77	-132.0	0%	-132.0
	Grass to	1962 900304S	States Note Const. State 1	200.01			tis aniwers		444.000	1071-7374	CTACH SCOROL
1.4		Topsoil Place	Place 6" topsoil	n/a	n/a	9321.39	-0.50	-4660.70	-172.6	0%	-172.6
	Grass to play			1923							
2.1	2000 M. C. C. C. C. C. C.	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	2605.12	0.50	1302.56	48.2	0%	48.2
0.0	Grass to play	0.1 7.5	Cut subsoil to proposed	F 0:	Pro-14	0005.40	¥	007.00	40.5	00/	40.5
2.2	170 100 100 100 100 100 100 100 100 100	Subsoil Excavate	subgrade Fill subsoil to proposed	Ex-6in	inch Pro-14	2605.12	varies	337.30	12.5	0%	12.5
2.3	Grass to play surface	Subsoil Place	subgrade	Ex-6in	inch	2605.12	varies	-1307.22	-48.4	0%	-48.4
2.3	Grass to play	Play Surface Place	Jabyrade	LA-OIII	IIIOII	2000.12	varios	1001.22	70.4	0 /0	70.4
2.4	The second secon	(Rubber Mulch)	Place 14" of rubber mulch	n/a	n/a	2605.12	-1.17	-3039.31	-112.6	0%	-112.6
	Grass to	(, daze , maion)				2000112		3333.31	7.12.3		, , , , ,
3.1	Asphalt	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	513.70	0.50	256.85	9.5	0%	9.5
7	Grass to	Table Proceedings of the Artist Market	Cut subsoil to proposed	D.F.V.S.Fo.	1						
3.2	Asphalt	Subsoil Excavate	subgrade	Ex-6in	Pro-12in	513.70	varies	308.75	11.4	0%	11.4
	Grass to	Statement bootstate	Fill subsoil to proposed	200	1053 VHAW	Service and	62	100755000		2544	
3.3	55000 10000000	Subsoil Place	subgrade	Ex-6in	Pro-12in	513.70	varies	0.00	0.0	0%	0.0
1 1	Grass to			122	8	20020	2002	55555		223	200
3.4	And the state of t	Gravel Place (pavement)	Place 9" of gravel	n/a	n/a	513.70	-0.75	-385.28	-14.3	0%	-14.3
2.5	Grass to	Assistate Disease	Diagonal and the state of the s	-/-	-7-	F40.70	0.05	100.40	1.0	00/	4.0
3.5	Asphalt Grass to	Asphalt Place	Place 3in asphalt	n/a	n/a	513.70	-0.25	-128.43	-4.8	0%	-4.8
4.1	Timbers	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	99.03	0.50	49.52	1.8	0%	1.8
4.1	Grass to	Topson Excavate	Cut subsoil to proposed	IVa	II/a	99.03	0.30	49.52	1.0	0 70	1.0
4.2		Subsoil Excavate	subgrade	Ex-6in	Pro-12in	99.03	varies	17.09	0.6	0%	0.6
	Grass to	- Caroni Externato	Fill subsoil to proposed		1.00.12.111	00.00	-			-	
4.3		Subsoil Place	subgrade	Ex-6in	Pro-12in	99.03	varies	-78.45	-2.9	0%	-2.9
4.4	Grass to Timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	na	99.03	-1.00	-99.03	-3.7	0%	-3.7
	Grass to 5-										
5.1		Topsoil Excavate	Strip 6" topsoil	n/a	n/a	80.00	0.50	40.00	1.5	0%	1.5
	Grass to 5-		Cut subsoil to proposed								
5.2	inch Concrete	Subsoil Excavate	subgrade	Ex-6in	Pro-8inch	80.00	varies	0.00	0.0	0%	0.0
	Grass to 5-		Fill subsoil to proposed								
5.3	inch Concrete	Subsoil Place	subgrade	Ex-6in	Pro-8inch	80.00	varies	-92.52	-3.4	0%	-3.4
22000	Grass to 5-	2: 2: 2:	124 25 6	200		22 27	62 5853	22.72.75	V020	230	100000
5.4	inch Concrete	Concrete Place	Place 5"of concrete	n/a	n/a	80.00	-0.41	-32.80	-1.2	0%	-1.2
	Grass to 5-	Crount Diseas (Comments)	Diago 2" of	2/2	2/2	00.00	0.25	20.00	0.7	00/	0.7
5.5	inch Concrete	Gravel Place (Concrete)	Place 3" of gravel	n/a	n/a	80.00	-0.25	-20.00	-0.7	0%	-0.7
6	Adjust	Play Surface Place (Rubber Mulch)	Increase play surface by 1/2 of asphalt ramp gravel base volume = 1/2 x (2.25 ft x 9 ft x 7 in)	n/a	n/a	31	-0.29	-9	-0.3	0%	-0.3

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



Graphical Scale

2020 PLAYGROUND IMPROVEMENTS-GROUP 3

PROJECT ADDRESS:

GALAXY PARK 132 MILKY WAY MADISON, WI 53718

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ITEM	DATE
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PUBLIC WORKS PROJECT #:

8904

SHEET TITLE:

DESIGN COMPUTATIONS

SHEET NUMBER:

Computation Summary			
Positive volumes are cuts (material available)	, negative volumes		
Daw Jahala	Sum of Factored (Uncom-pacted)		
	Volume (cu yd)		
Asphalt Place	-4.76		1
Border Timbers Place (placeholder volume)	-3.67		1
Concrete Place	-1.21		1
Gravel Place (Concrete)	-0.74 -14.27		
Gravel Place (pavement) Play Surface Place (Rubber Mulch)	-14.27 -112.90		
Subsoil Excavate	183.28		
Subsoil Place	-186.74		
Topsoil Excavate	233.69		
Topsoil Place	-172.62		
Grand Total	-172.62 - 79.94		
Orana romi	10.04		
Reorganized into bid table items			
Bid Item	Quantity	Units	Relation to Table Above
			= Subsoil Excavate + Topsoil
		5.000.054	Excavate + Pavement Excavate +
20101 Excavation Cut	417	100	Concrete Excavate
20202 Fill - Borrow		CY	= Subsoil Excavate + Subsoil Place
20221 Topsoil	1034	SY	= (Topsoil Place)/167
40102 Crushed Aggregate Base Course			= ((Gravel Place) pavement) * -2
Gradation No. 2	28	tons	ton/cubic yard
40202 HMA Pavement 4 LT 58-28 S	10.3	tons	= Asphalt Place * -2.16 ton/cubic ya
TOZOZ TIMINAT GROMONA TZT GO ZO G			= Play Surface Place (Rubber Mulch

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2020 PLAYGROUND IMPROVEMENTS-GROUP 3

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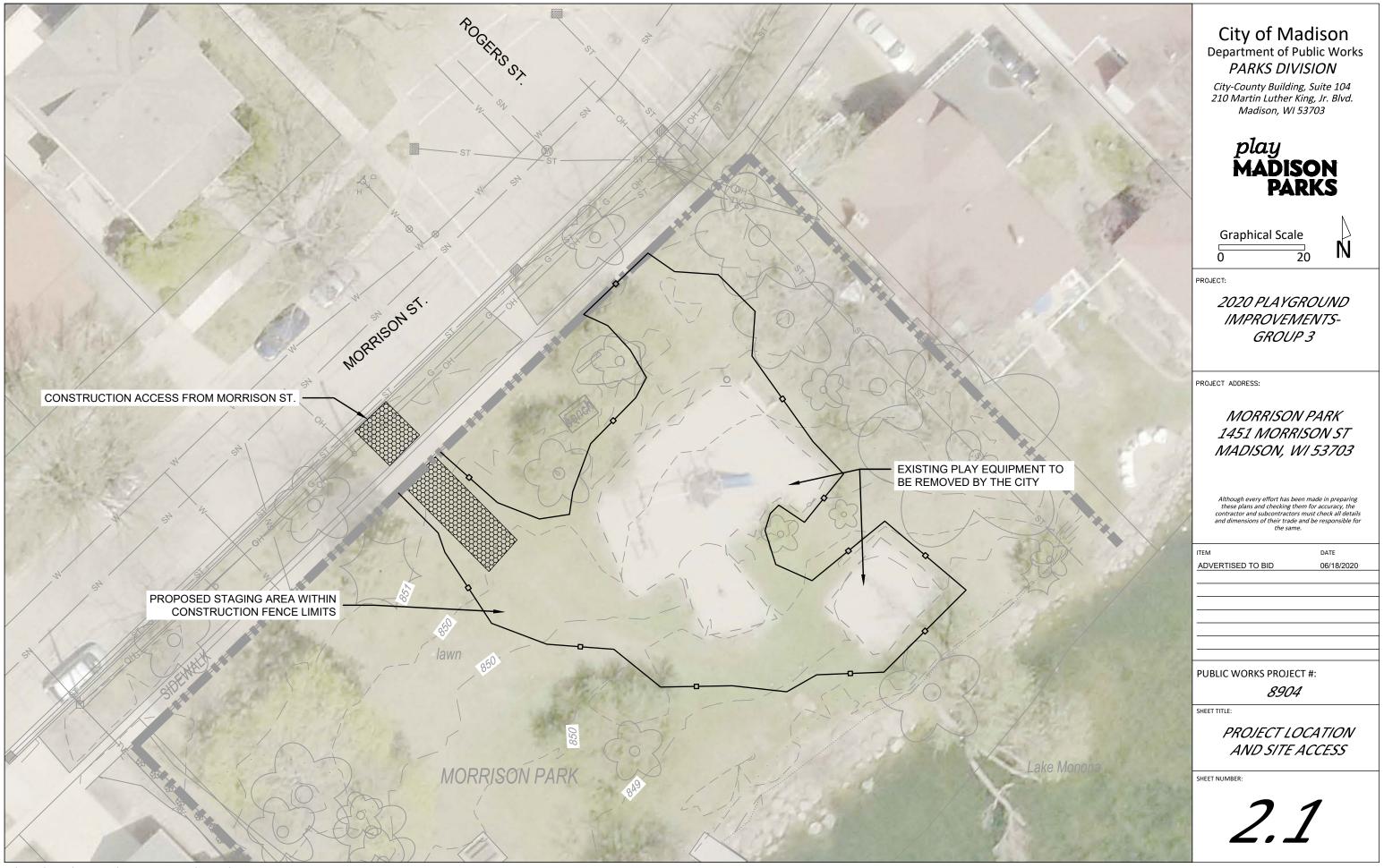
PUBLIC WORKS PROJECT #:

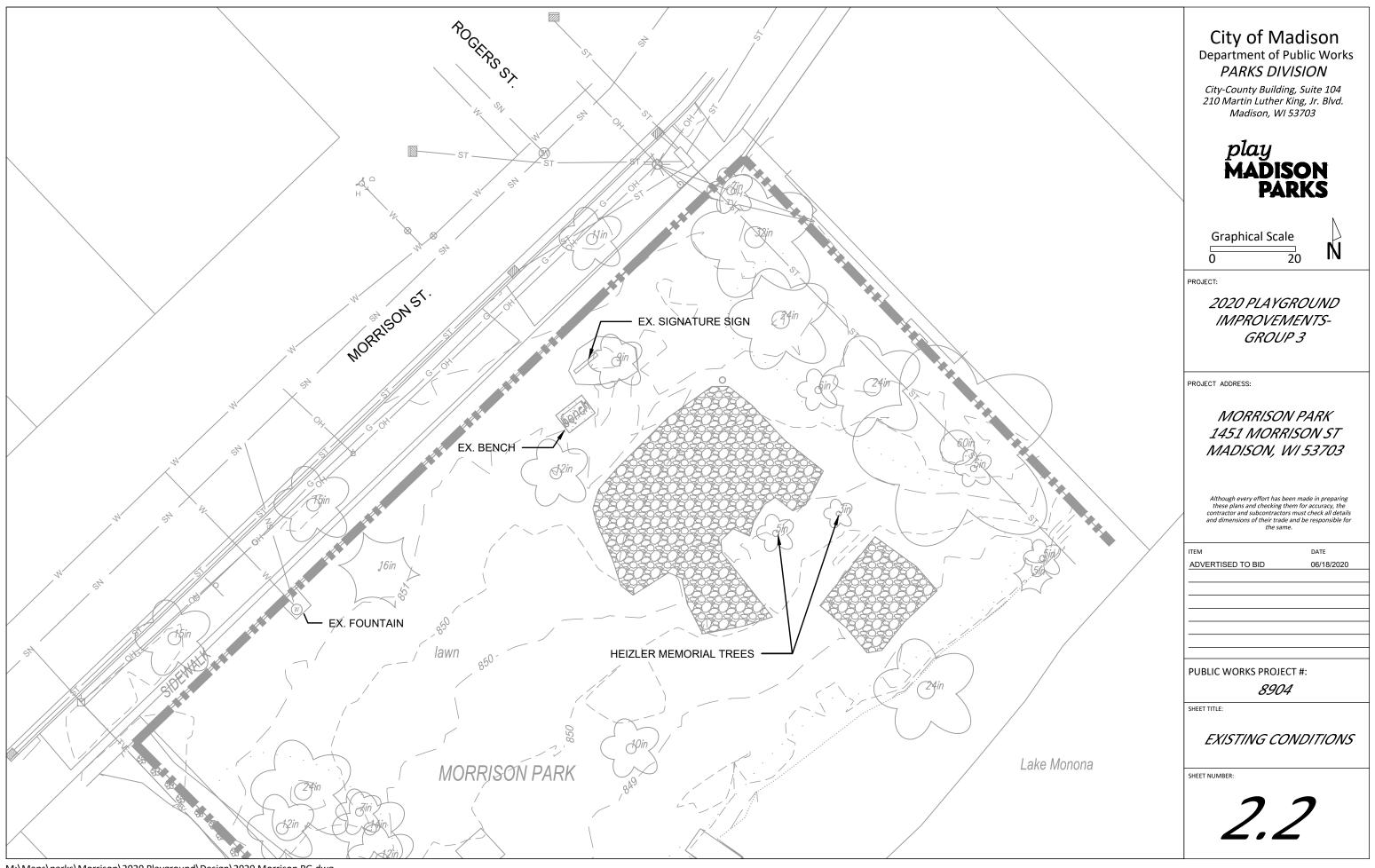
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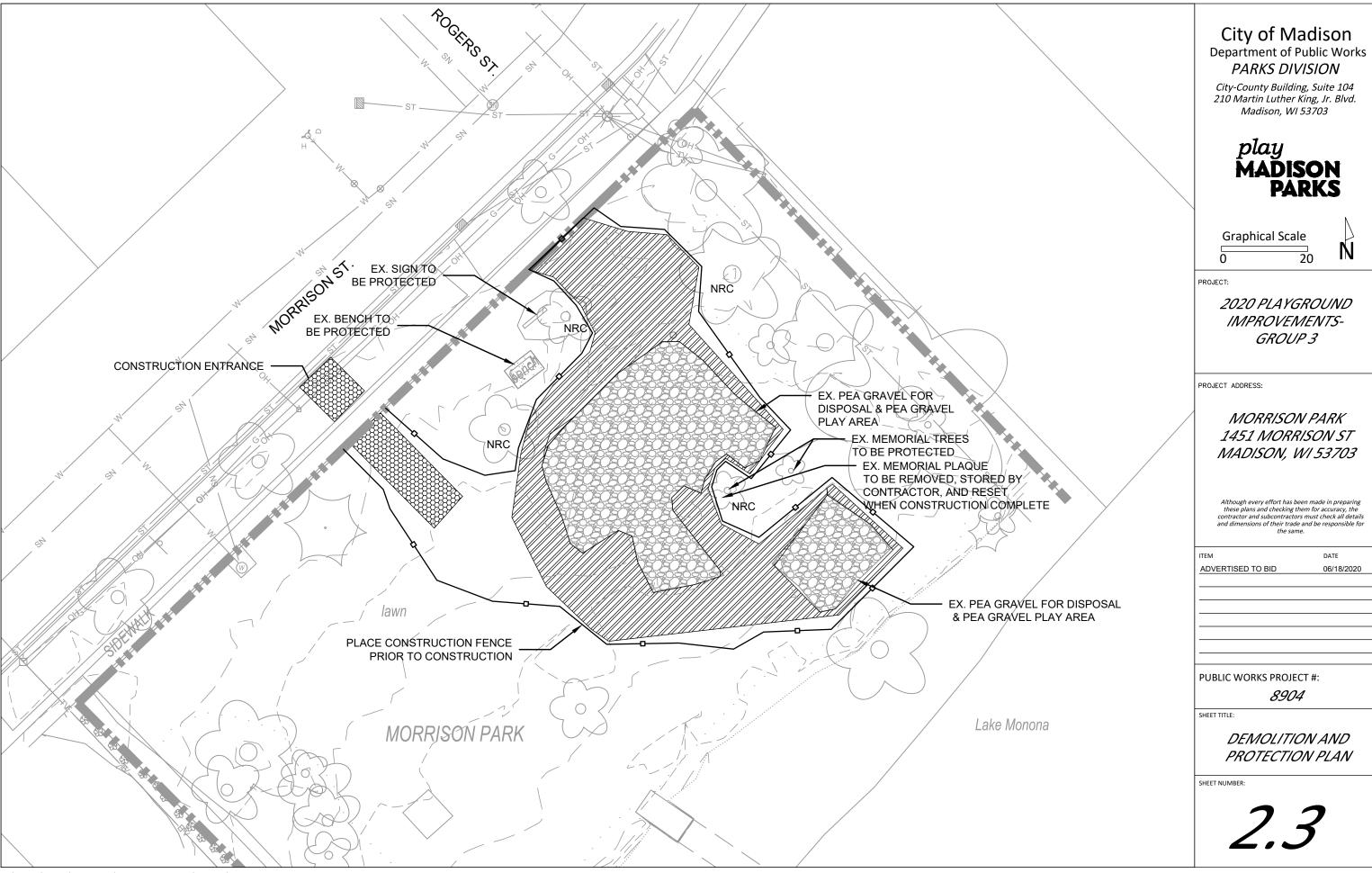
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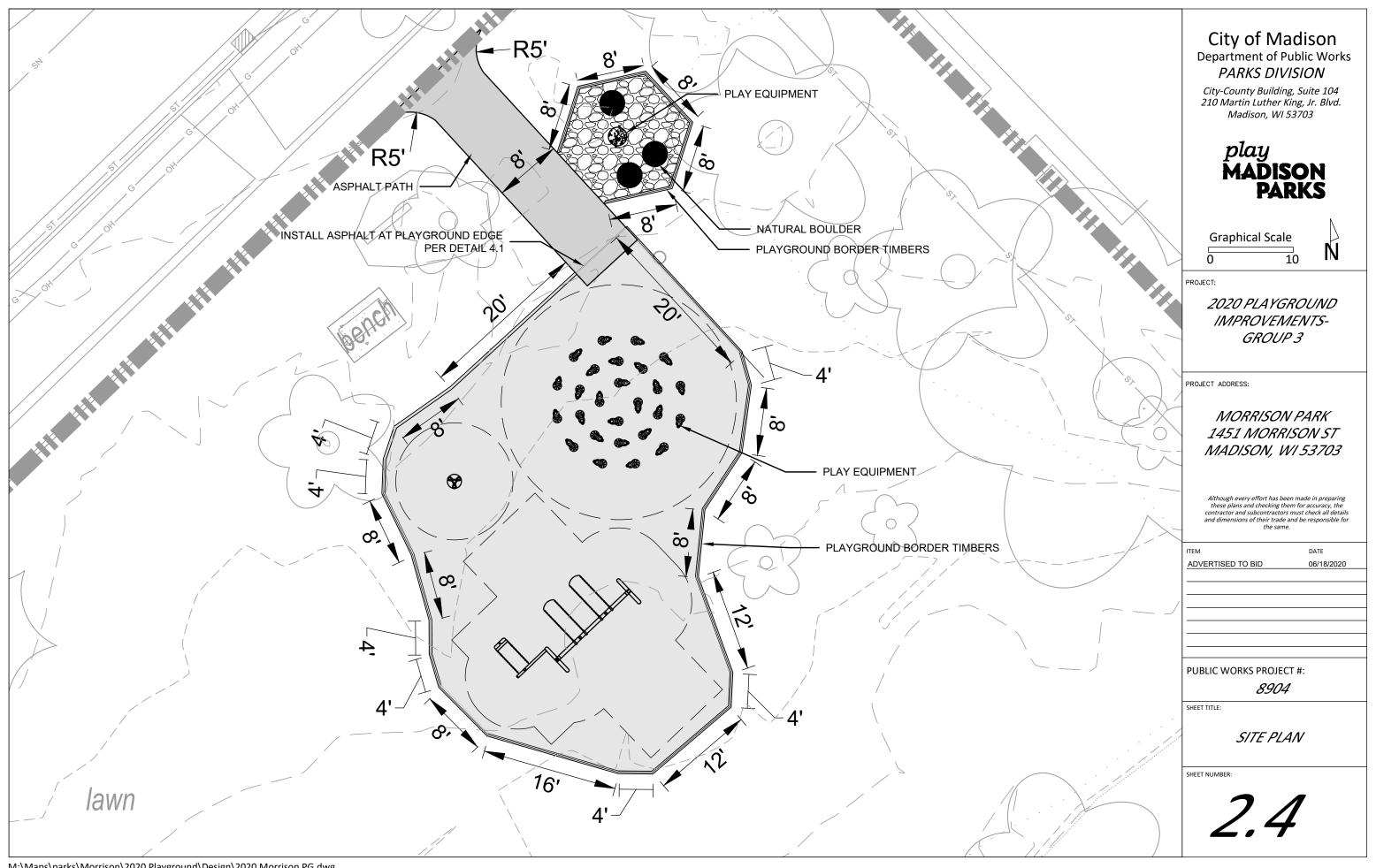
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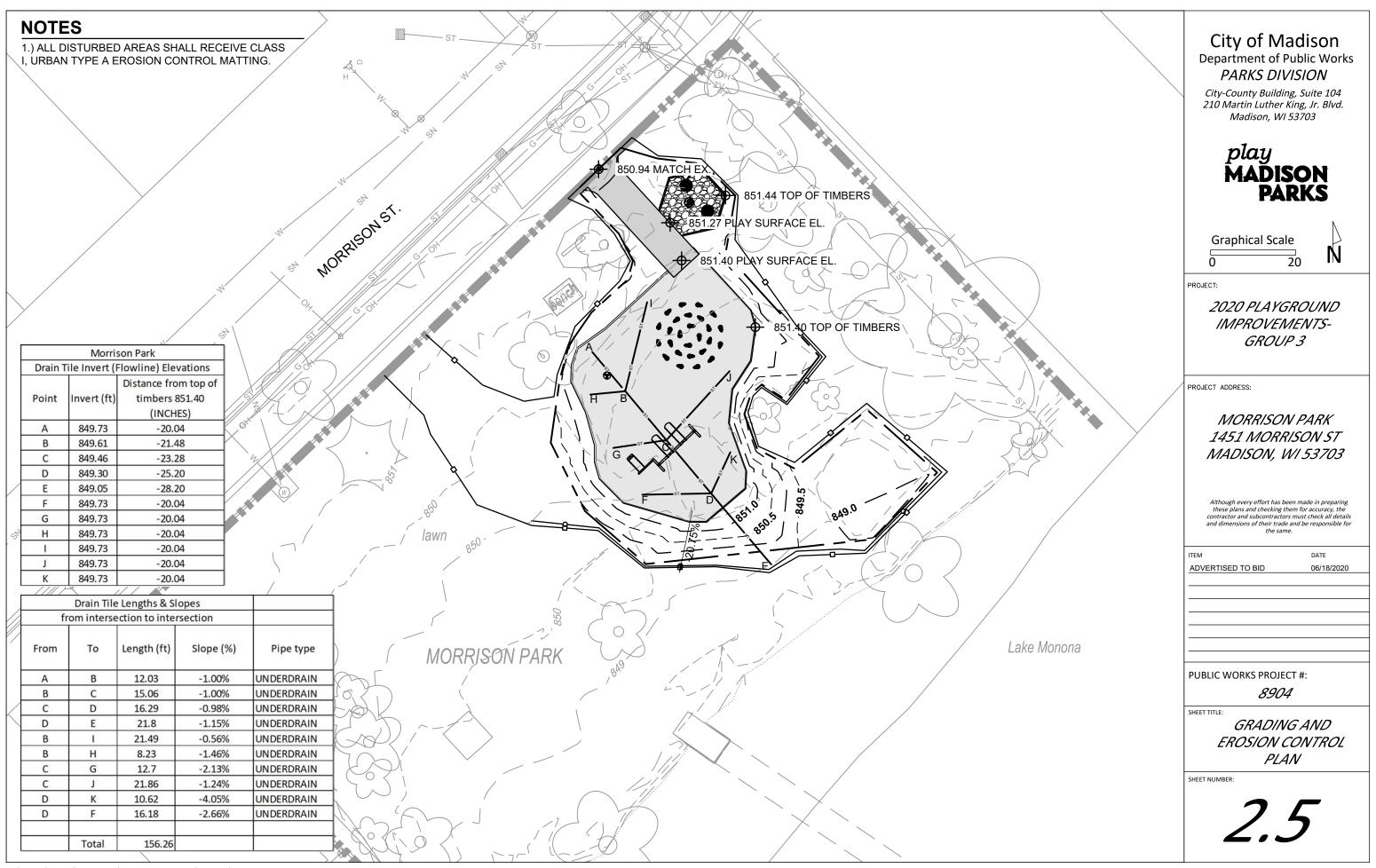






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Sort	Grp	Material	<i>ltem</i>	From Surface Model	To Surface Model	area (sq ft)	depth (ft)	Unfac- tored volume (cu ft)	Unfac- tored volume (cu yd)	Expan- sion Factor (%)	Factored (Uncom- pacted) Volume (cu yd)
	Grass to										
1.1	Grass	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	1666.97	0.50	833.49	30.9	0%	30.9
	Grass to		Cut subsoil to proposed						1.5		1.2
1.2		Subsoil Excavate	subgrade	Ex-6in	Pro-6in	1666.97	varies	14.58	0.5	0%	0.5
1 4	Grass to	Outra il Diana	Fill subsoil to proposed	F., 6:-	D 0:-	1000 07		000.00	24.4	00/	04.4
1.3	150115-4-7003-50-4	Subsoil Place	subgrade	Ex-6in	Pro-6in	1666.97	varies	-838.90	-31.1	0%	-31.1
1.4	Grass to Grass	Topsoil Place	Place 6" topsoil	n/a	n/a	1666.97	-0.50	-833.49	-30.9	0%	-30.9
1.4	Grass to play	Topson Flace	Place o Topson	11/4	II/a	1000.97	-0.50	-033.49	-30.8	076	-30.9
2.1	surface	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	377.87	0.50	188.94	7.0	0%	7.0
2.1	Grass to play	Topson Excavate	Cut subsoil to proposed	II/a	Pro-14	311.01	0.50	100.54	1.0	1070	17.0
2.2		Subsoil Excavate	subgrade	Ex-6in	inch	377.87	varies	37.35	1.4	0%	1.4
	Grass to play	Cubon Excurato	Fill subsoil to proposed	Ex on	Pro-14	011.01	ranco	07.00	1.7	1070	10.3
2.3		Subsoil Place	subgrade	Ex-6in	inch	377.87	varies	-155.97	-5.8	0%	-5.8
	Grass to play	Play Surface Place (Wood			1						
2.4	1154 1254	Mulch)	Place 14" of wood mulch	n/a	n/a	377.87	-1.17	-440.85	-16.3	0%	-16.3
	Grass to play	*							1		
	surface (pea										
3.1	gravel)	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	158.93	0.50	79.47	2.9	0%	2.9
	Grass to play		COMPANY OF STREET		1000						
	surface (pea		Cut subsoil to proposed	5155 TENES	Pro-14	manusmas arusa		353-557-55-55	ST S	F-9-0-80-2	Louisian
3.2	•	Subsoil Excavate	subgrade	Ex-6in	inch	158.93	varies	96.91	3.6	0%	3.6
	Grass to play		ALLEY Y PARTY 31		Nac cons						1
ADVINS.	surface (pea	22-37-37-37-37-37-37-37-37-37-37-37-37-37-	Fill subsoil to proposed		Pro-14	100722426474474			PS/0827.10	TOTAL	ACCEPTO
3.3	3	Subsoil Place	subgrade	Ex-6in	inch	158.93	varies	0.00	0.0	0%	0.0
	Grass to play										
	surface (pea		DI 4411 6	22.02.0	10.00	450.00	4.47	105.10	0.0	00/	
3.2		Pea gravel place	Place 14" of pea gravel	n/a	n/a	158.93	-1.17	-185.42	-6.9	0%	-6.9
4.1	Grass to	Tanacil Evacuate	Strin 6" topocil	n/a	n/o	231.13	0.50	115.57	4.3	0%	4.3
4.1	Asphalt Grass to	Topsoil Excavate	Strip 6" topsoil Cut subsoil to proposed	n/a	n/a	231.13	0.50	115.57	4.3	0%	4.3
4.2	Asphalt	Subsoil Excavate	subgrade	Ex-6in	Pro-12in	231.13	varies	98.50	3.6	0%	3.6
7.2	Grass to	Cubson Excavate	Fill subsoil to proposed	LX-0III	1 10-12111	201.10	varies	30.50	5.0	0.70	3.0
4.3		Subsoil Place	subgrade	Ex-6in	Pro-12in	231.13	varies	0.00	0.0	0%	0.0
1.0	Grass to	Cubcon Fides	- Cangiago	EX OIII	110 12	201.10	,uno	10.00		1070	10.0
4.3		Gravel Place (pavement)	Place 9" of gravel	n/a	n/a	231.13	-0.75	-173.35	-6.4	0%	-6.4
	Grass to	, and the second		I AMORIA	1000000	200000000000000000000000000000000000000	7	V 1/45/5/3/3/5/			JOSEPH
4.5		Asphalt Place	Place 3in asphalt	n/a	n/a	231.13	-0.25	-57.78	-2.1	0%	-2.1
	Grass to				T. V.						
5.1	Timbers	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	72.80	0.50	36.40	1.3	0%	1.3
	Grass to		Cut subsoil to proposed								
5.2		Subsoil Excavate	subgrade	Ex-6in	Pro-12in	72.80	varies	8.39	0.3	0%	0.3
	Grass to		Fill subsoil to proposed					CVAN ARREST	Agric Acc		24 122
5.3	Timbers	Subsoil Place	subgrade	Ex-6in	Pro-12in	72.80	varies	-30.21	-1.1	0%	-1.1
	O	D. J. T. L.	Place playground border								
	Grass to	Border Timbers Place	timbers (placeholder volume	nio		72.00	1.00	70.00	2.7	00/	2.7
5.4	Timbers	(placeholder volume)	to balance volume comps)	n/a	na	72.80	-1.00	-72.80	-2.7	0%	-2.7
	Dlay surface		Remove existing play surface, estimated depth 17								
6.1	Play surface to Grass	Play Surface Excavate		n/a	n/a	551.21	1.42	780.88	28.9	0%	28.9
0.1	Play surface	i lay Gullace Excavate	Cut subsoil to proposed	n/a	IIIa	001.21	1.72	700.00	20.9	0 /0	20.9
6.2	and the first of the second	Subsoil Excavate	subgrade	Ex-17in	Pro-6in	551.21	varies	0.00	0.0	0%	0.0
5.2	Play surface	Executate	Fill subsoil to proposed		1.0011		1000	5.35	1.0		
6.3	encoding and the first of the contract of the	Subsoil Place	subgrade	Ex-17in	Pro-6in	551.21	varies	-728.27	-27.0	0%	-27.0
0.0		But the separate and the United State (State Co. Co.)	material Materials (1986). T	A ANDREW WITH THE REAL PROPERTY.	10.7 (0.7 (0.7)	100000000000000000000000000000000000000			100000000000000000000000000000000000000	C41/15/10	
0.3	Play surface					1			_		

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Graphical Scale
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PROJECT:

2020 PLAYGROUND IMPROVEMENTS-GROUP 3

PROJECT ADDRESS:

MORRISON PARK 1451 MORRISON ST MADISON, WI 53703

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PUBLIC WORKS PROJECT #:

8904

SHEET TITLE:

DESIGN COMPUTATIONS

SHEET NUMBER:

ort	Grp	Material	<i>ltem</i>	From Surface Model	To Surface Model	area (sq ft)	depth (ft)	Unfac- tored volume (cu ft)	Unfac- tored volume (cu yd)	Expan- sion Factor (%)	Factored (Uncom- pacted) Volume (cu yd)
	Play surface		Remove existing play						10		
12774	to play		surface, estimated depth	100200	anger:		transcoupin	200000000000000000000000000000000000000	22000	1212721	F254277247
7.1		Play Surface Excavate	17in	n/a	n/a	1434.09	1.42	2031.63	75.2	0%	75.2
7.2	Play surface to play surface	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-14in	1434.09	varies	0.00	0.0	0%	0.0
7.3	Play surface to play surface	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-14in	1434.09	varies	-1925.92	-71.3	0%	-71.3
7.4	Play surface to play surface	Play Surface Place (Wood Mulch)	Place 14in wood mulch play surface	n/a	n/a	1434.09	-1.17	-1677.89	-62.1	0%	-62.1
8.1	Play surface to timbers	Play Surface Excavate	Remove existing play surface, estimated depth 17in	n/a	n/a	24.75	1.42	35.06	1.3	0%	1.3
8.2	Play surface to timbers	Subsoil Excavate	Cut subsoil to proposed subgrade	Ex-17in	Pro-12in	24.75	varies	0.00	0.0	0%	0.0
8.3	Play surface to timbers	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	Pro-12in	24.75	varies	-40.58	-1.5	0%	-1.5
8.4	Play surface to timbers	Border Timbers Place (placeholder volume)	Place playground border timbers (placeholder volume to balance volume comps)	n/a	n/a	24.75	-1.00	-24.75	-0.9	0%	-0.9
		Play Surface Place (Wood	Increase play surface by 1/2 of asphalt ramp gravel base volume = 1/2 x (2.25 ft x 9 ft								
9	Adjust	Mulch)	x 7 in)	n/a	n/a	31	-0.29	1 2	9 -0.3	3 0%	-0.

Computation Summary		
Positive volumes are cuts (material available)	, negative volumes	
	Sum of Factored (Uncom-pacted)	
Row Labels	Volume (cu yd)	
Asphalt Place	-2.14	
Border Timbers Place (placeholder volume)	-3.61	
Gravel Place (pavement)	-6.42	
Pea gravel place	-6.87	
Play Surface Excavate	105.47	
Play Surface Place (Wood Mulch)	-78.47	
Subsoil Excavate	9.47	
Subsoil Place	-137.77	
Topsoil Excavate	46.44	
Topsoil Place	-41.08	
Grand Total	-114.99	
Decembra dinta hid table itama		
Reorganized into bid table items		

Bid Item	Quantity	Units	Relation to Table Above
		108	= Subsoil Excavate +
			Topsoil Excavate +
20101 Excavation Cut	56	CY	Pavement Excavate
20103 Excavation Cut - Pea Gravel	105	CY	= Play Surface Excavate
			= Subsoil Excavate +
20202 Fill - Borrow	128	CY	Subsoil Place
20221 Topsoil	246	SY	= (Topsoil Place)/167
40102 Crushed Aggregate Base Course			= ((Gravel Place) pavement)
Gradation No. 2	2	tons	* -2 ton/cubic yard
			= Asphalt Place * -2.16
40202 HMA Pavement 4 LT 58-28 S	2.2	tons	ton/cubic yard
90003 Playground Surfacing - Wood Fiber		18	= Play Surface Place (Wood
Mulch	94.2	CY	Mulch * -1.2)
90004 Playground Surfacing - Pea Gravel	7	CY	= Pea gravel place

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



Graphical Scale

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2020 PLAYGROUND IMPROVEMENTS-GROUP 3

PROJECT ADDRESS:

MORRISON PARK 1451 MORRISON ST MADISON, WI 53703

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 TO BID	06/18/2020

PUBLIC WORKS PROJECT #:

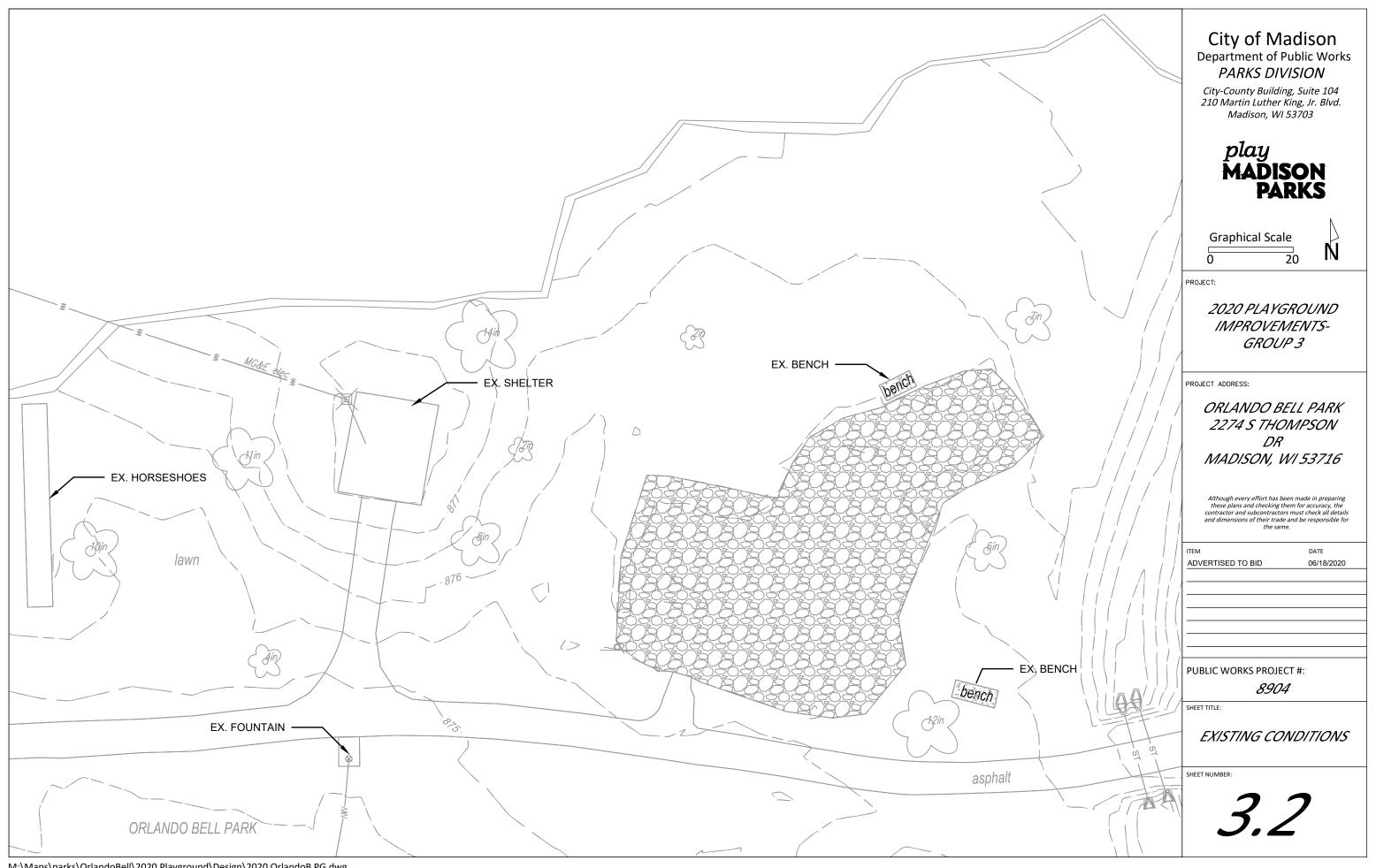
8904

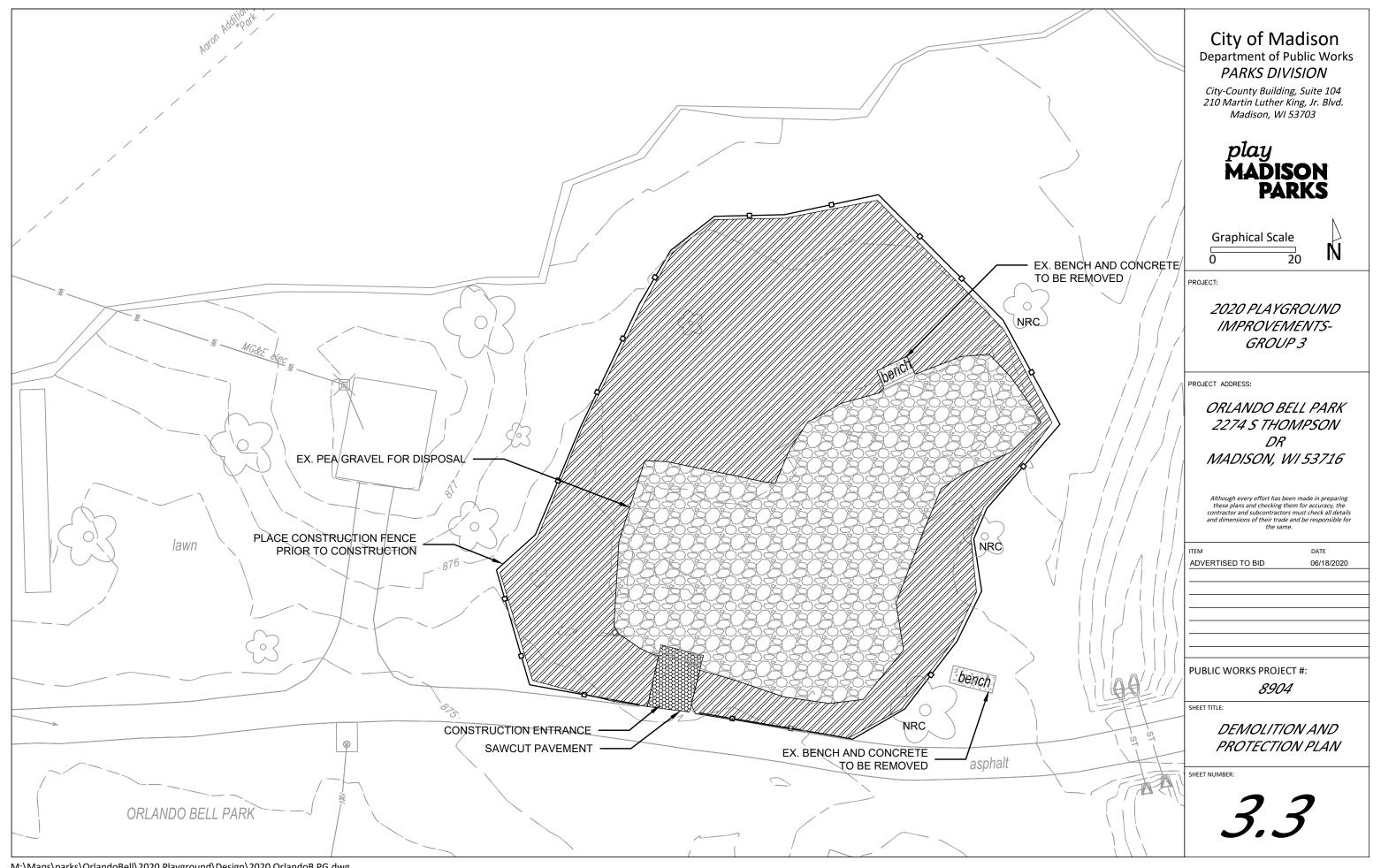
SHEET TITLE:

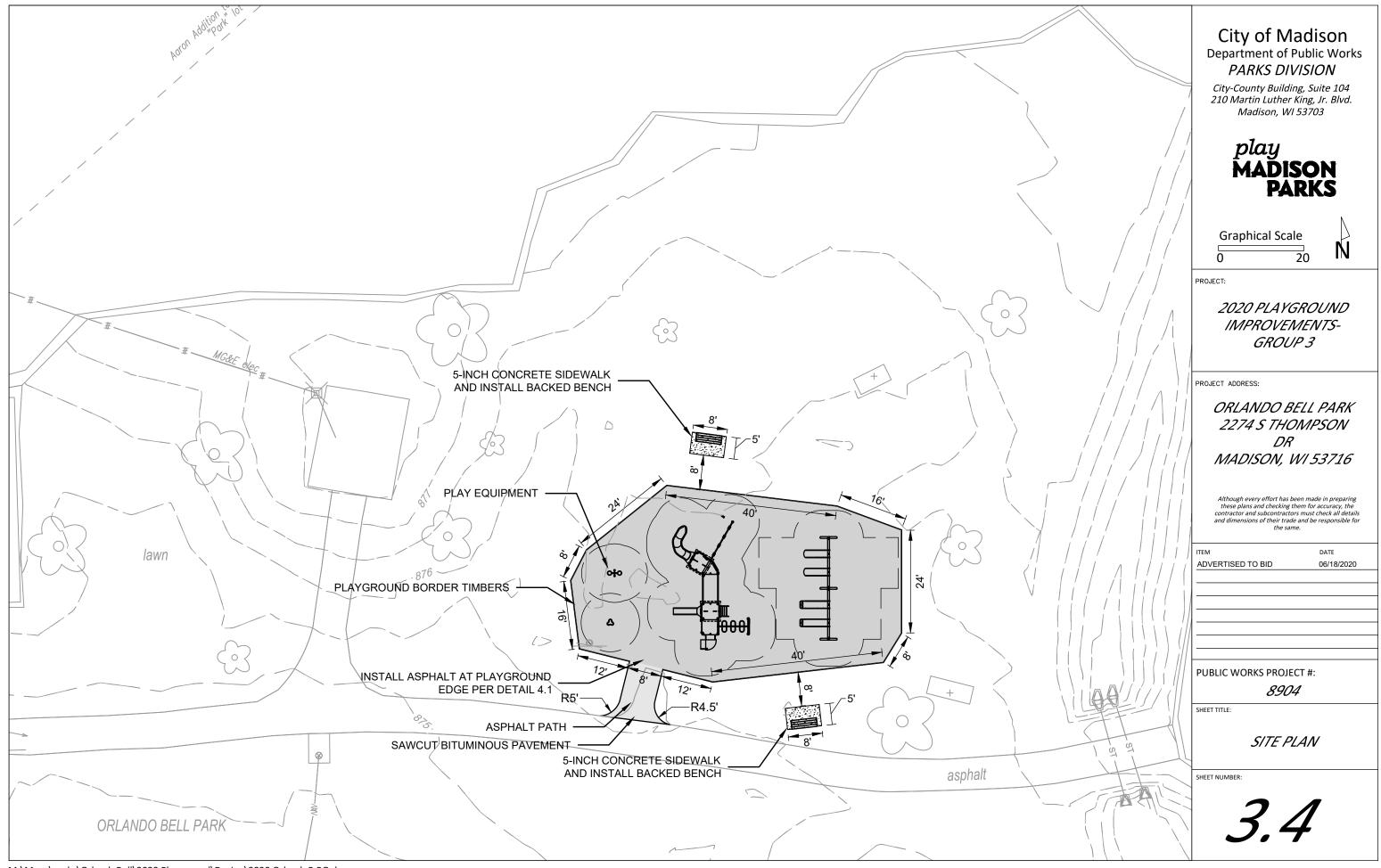
DESIGN COMPUTATIONS

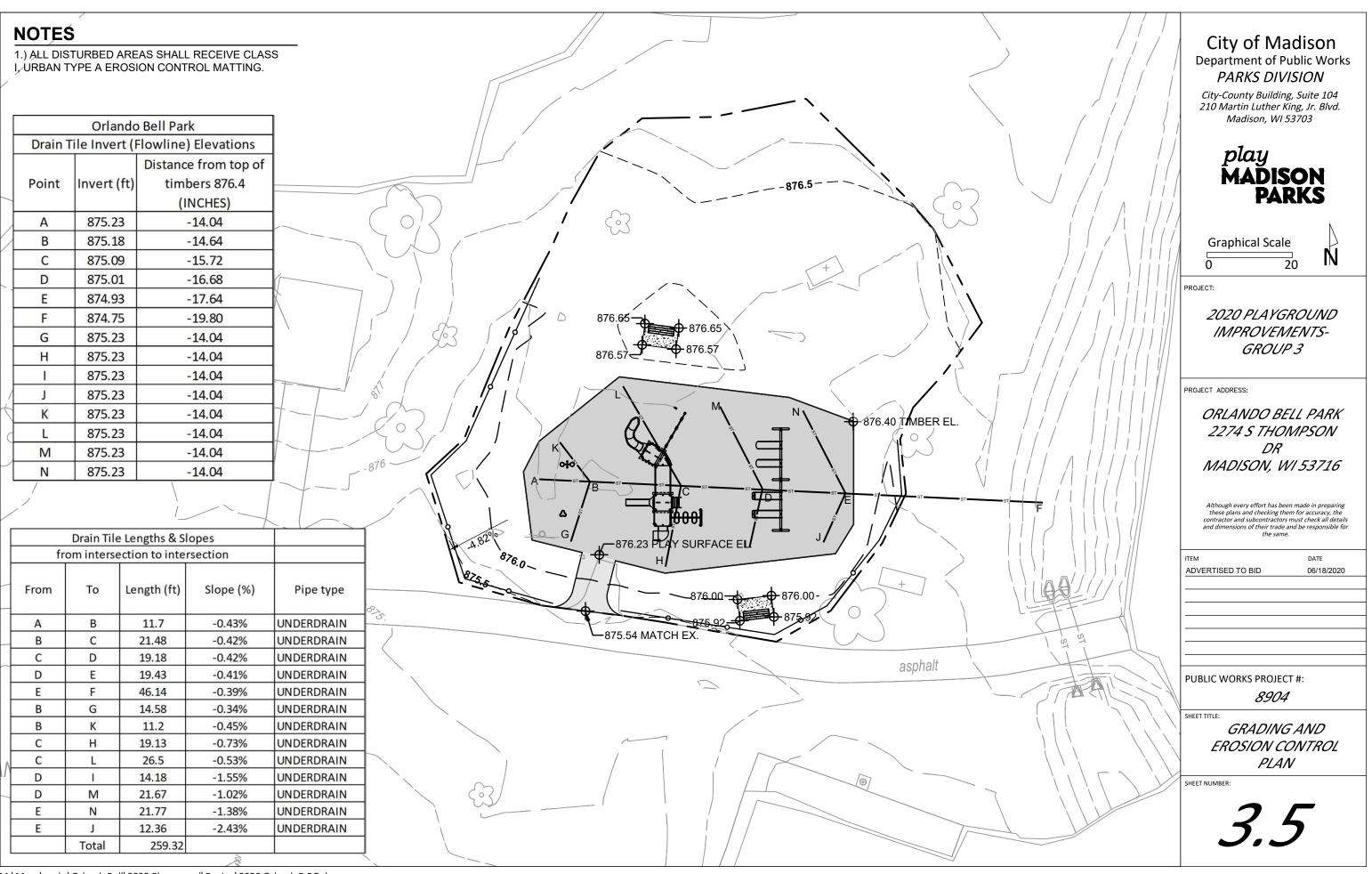
SHEET NUMBER:











Sort	Grp	M aterial	ltem	From Surface Model	To Surface Model	area (sq ft)	depth (ft)	Unfac- tored volume (cu ft)	Unfac- tored volume (cu yd)	Expan- sion Factor (%)	Factored (Uncom- pacted) Volume (cu yd)
1.1	Grass to Grass	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	6163.99	0.50	3082.00	114.1	0%	114.1
	Grass to	Californ	Cut subsoil to proposed	3.002				000000000000000000000000000000000000000		10000000	
1.2		Subsoil Excavate	subgrade	Ex-6in	Pro-6in	6163.99	varies	15.81	0.6	0%	0.6
	Grass to	Length for Mar Lauring	Fill subsoil to proposed					1002000000000			191011121
1.3		Subsoil Place	subgrade	Ex-6in	Pro-6in	6163.99	varies	-1129.59	-41.8	0%	-41.8
1.4		Topsoil Place	Place 6" topsoil	n/a	n/a	6163.99	-0.50	-3082.00	-114.1	0%	-114.1
0.4	Grass to play	T			aroteno	400.04	0.50	00.44	0.4	00/	0.4
2.1	surface	Topsoil Excavate	Strip 6" topsoil Cut subsoil to proposed	n/a	n/a Pro-14	166.21	0.50	83.11	3.1	0%	3.1
2.2	Grass to play surface	Subsoil Excavate	subgrade	Ex-6in	inch	166.21	varies	48.32	1.8	0%	1.8
2.2	Grass to play	Cubson Excavate	Fill subsoil to proposed	LX-OIII	Pro-14	100.21	varies	10.02	1.0	0 70	1.0
2.3	Secure and the second s	Subsoil Place	subgrade	Ex-6in	inch	166.21	varies	0.00	0.0	0%	0.0
	Grass to play	Play Surface Place		5.	32						
2.4	surface	(Rubber Mulch)	Place 14" of rubber mulch	n/a	n/a	166.21	-1.17	-193.91	-7.2	0%	-7.2
3.1	Asphalt to Grass	Pavement Excavate	Strip 1' of Asphalt and Gravel	n/a	n/a	28.01	1.00	28.01	1.0	0%	1.0
3	Asphalt to	1000 NO 01000000 NA	Cut subsoil to proposed						(All Control of Contro		
3.2	**************************************	Subsoil Excavate	subgrade	Ex-12in	Pro-6in	28.01	varies	0.00	0.0	0%	0.0
2.2	Asphalt to	Outrail Diseas	Fill subsoil to proposed	F., 40:-	Dan Cin	00.04		20.50		00/	
3.3	Grass Asphalt to	Subsoil Place	subgrade	Ex-12in	Pro-6in	28.01	varies	-20.52	-0.8	0%	-0.8
3.2		Topsoil Place	Place 6" topsoil	n/a	n/a	28.01	-0.50	-14.01	-0.5	0%	-0.5
0.2	Grass to	Topodii Tidde	i idoe o topoon	TV G	TIV G	20.01	0.00	14.01	0.0	0 70	0.0
4.1	Asphalt	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	36.48	0.50	18.24	0.7	0%	0.7
	Grass to		Cut subsoil to proposed								
4.2		Subsoil Excavate	subgrade	Ex-6in	Pro-12in	36.48	varies	8.79	0.3	0%	0.3
4.0	Grass to	0 1 " 01	Fill subsoil to proposed	F 0:	D 40:	00.40		0.07		001	
4.3	A STATE OF THE STA	Subsoil Place	subgrade	Ex-6in	Pro-12in	36.48	varies	-0.07	0.0	0%	0.0
4.3	Grass to Asphalt	Gravel Place (pavement)	Place 9" of gravel	n/a	n/a	36.48	-0.75	-27.36	-1.0	0%	-1.0
4.5	Grass to	Oraver riace (pavement)	l lace 3 of graver	IIVa	II/a	30.40	-0.75	-21.50	-1.0	0 70	-1.0
4.5	TORK OF THE PARTY OF THE PARTY.	Asphalt Place	Place 3in asphalt	n/a	n/a	36.48	-0.25	-9.12	-0.3	0%	-0.3
	Grass to	·									
5.1	Timbers	Topsoil Excavate		n/a	n/a	29.32	0.50	14.66	0.5	0%	0.5
-	Grass to		Cut subsoil to proposed		200					2000	
5.2	Control of the contro	Subsoil Excavate	subgrade	Ex-6in	Pro-12in	29.32	varies	0.79	0.0	0%	0.0
5.3	Grass to	Cubacil Dlaca	Fill subsoil to proposed	Ev Gin	Dro 10in	29.32	unrice	1.50	-0.1	0%	-0.1
5.3	Timbers	Subsoil Place	subgrade Place playground border	Ex-6in	Pro-12in	29.32	varies	-1.59	-0.1	0%	-0.1
	Grass to	Border Timbers Place	timbers (placeholder volume								
5.4	Timbers	(placeholder volume)	[[전 12] [[12] [[12] [[12] [12] [[12]	n/a	na	29.32	-1.00	-29.32	-1.1	0%	-1.1
	Play surface		Remove existing play surface, estimated depth 17	1,000,000 00							
6.1	to Grass	Play Surface Excavate		n/a	n/a	1798.16	1.42	2547.39	94.3	0%	94.3
	Play surface	,	Cut subsoil to proposed	- Party Tab							
6.2		Subsoil Excavate		Ex-17in	Pro-6in	1798.16	varies	0.00	0.0	0%	0.0
	Play surface	102.0 1.60 300 and arrives	Fill subsoil to proposed	#1000 JANESTAN		NOTE OF THE PARTY.	NC	200000000000000000000000000000000000000	parties to	on the Ar	990.00
6.3		Subsoil Place	subgrade	Ex-17in	Pro-6in	1798.16	varies	-2359.37	-87.4	0%	-87.4
0.4	Play surface	Tanasii Diasa	Diese Cil of terracil	-/-	2/2	1700 10	0.50	900.00	22.2	00/	22.2
6.4	to Grass	Topsoil Place	Place 6" of topsoil	n/a	n/a	1798.16	-0.50	-899.08	-33.3	0%	-33.3

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



Graphical Scale
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PROJECT:

2020 PLAYGROUND IMPROVEMENTS-GROUP 3

PROJECT ADDRESS:

ORLANDO BELL PARK 2274 S THOMPSON DR 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 TO BID	06/18/2020
-	

PUBLIC WORKS PROJECT #:

8904

SHEET TITLE:

VOLUME COMPUTATIONS

SHEET NUMBER:

Sort	Grp	Material	ltem .	From Surface Model	To Surface Model	area (sq	depth (ft)	Unfac- tored volume (cu ft)	Unfac- tored volume (cu yd)	Expansion Factor	Factored (Uncom- pacted) Volume (cu yd)
Jon	Play surface	material	Remove existing play	III Oder	I Guer	1119	depar (rej	(cu it)	(ca ya)	179	(ca ya)
	to play		surface, estimated depth								
7.1	surface	Play Surface Excavate	17in	n/a	n/a	2594.33	1.42	3675.30	136.1	0%	136.1
	Play surface							·			
	to play		Cut subsoil to proposed		Pro-14						
7.2	100000000000000000000000000000000000000	Subsoil Excavate	subgrade	Ex-17in	inch	2594.33	varies	0.00	0.0	0%	0.0
	Play surface to play		Fill subsail to proposed		Pro-14						
7.3	500000000000000000000000000000000000000	Subsoil Place	Fill subsoil to proposed subgrade	Ex-17in	inch	2594.33	varies	-1706.20	-63.2	0%	-63.2
7.0	Play surface	Cubbon 1 lucc	Jungitude	LX IIII	111011	2004.00	varios	1700.20	00.2	070	00.2
	to play	Play Surface Place	Place 14in rubber mulch play								
7.4	surface	(Rubber Mulch)	surface	n/a	n/a	2594.33	-1.17	-3035.37	-112.4	0%	-112.4
			Remove existing play						ľ		
0.4	Play surface	Di O. for a Francis	surface, estimated depth			70.04	4.40	100.00	0.7	00/	0.7
8.1	to timbers Play surface	Play Surface Excavate	17in Cut subsoil to proposed	n/a	n/a	70.84	1.42	100.36	3.7	0%	3.7
8.2	The second second	Subsoil Excavate	subgrade	Ex-17in	Pro-12in	70.84	varies	0.00	0.0	0%	0.0
0.2	Play surface	Cubson Excavate	Fill subsoil to proposed	LX-17111	1 10-12111	70.04	varies	0.00	0.0	070	0.0
8.3	and land a Standard	Subsoil Place	subgrade	Ex-17in	Pro-12in	70.84	varies	-65.11	-2.4	0%	-2.4
			Place playground border								
	Play surface	Border Timbers Place	timbers (placeholder volume								
8.4	0.54, 1.511 (44, 45, 45, 41)	(placeholder volume)	to balance volume comps)	n/a	n/a	70.84	-1.00	-70.84	-2.6	0%	-2.6
9.1	Asphalt to	Daymanant Eventuate	Stain 11 of Applicational County	-/-	-/-	64.24	1.00	64.24	2.2	00/	2.2
9.1	Asphalt Asphalt to	Pavement Excavate	Strip 1' of Asphalt and Gravel Cut subsoil to proposed	n/a	n/a	61.31	1.00	61.31	2.3	0%	2.3
9.2		Subsoil Excavate	subgrade	Ex-12in	Pro-12in	61.31	varies	0.07	0.0	0%	0.0
	Asphalt to		Fill subsoil to proposed							-	
9.3	Asphalt	Subsoil Place	subgrade	Ex-12in	Pro-12in	61.31	varies	-16.28	-0.6	0%	-0.6
	Asphalt to						Inch to the				
9.4	3.34 -33.53	Gravel Place (pavement)	Place 9" of gravel	n/a	n/a	61.31	-0.75	-45.98	-1.7	0%	-1.7
9.5	Asphalt to	Asabalt Dises	Diago 2" of combalt	n/a	-/-	61.31	0.25	-15.33	-0.6	0%	-0.6
	Asphalt 5" Concrete to	Asphalt Place	Place 3" of asphalt Remove 5" of concrete and	n/a	n/a	01.31	-0.25	-15.33	-0.6	0%	-0.0
10.1	Grass	Concrete Excavate	3" of gravel	n/a	n/a	31.47	0.66	20.77	0.8	0%	0.8
	5" Concrete to		Cut subsoil to proposed								
10.2	Grass	Subsoil Excavate	subgrade	Ex-8in	Pro-6in	31.47	varies	0.00	0.0	0%	0.0
650A 040A	5" Concrete to	MATORIA CONTROL MONTH ADMIT	Fill subsoil to proposed	Popos Sawr	- 10 CT-44493.TH	916-981 P\$10-05		F-1000000000	500000	No. 200 COV	CONTRACT
10.3	Grass	Subsoil Place	subgrade	Ex- 8in	Pro-6in	31.47	varies	-9.99	-0.4	0%	-0.4
10.4	5" Concrete to	Topsoil Place	Place 8" of concrete	n/a	n/o	31.47	-0.50	-15.74	-0.6	0%	0.6
10.4	TOUGHT WATER	Topson Flace		n/a	n/a	31.47	-0.50	-13.74	-0.0	070	-0.6
11.1	Play Surface to Asphalt	Play Surface Excavate	surface, estimated depth	n/a	n/a	9.45	1.42	13.39	0.5	0%	0.5
71.7	Play Surface	I lay Cullace Excavate	Cut subsoil to proposed	TW G	III G	0.40	1.42	10.00	0.0	070	0.0
11.2		Subsoil Excavate	subgrade	Ex-17in	Pro-12in	9.45	varies	0.00	0.0	0%	0.0
	Play Surface		Fill subsoil to proposed								
11.3	A STATE OF THE PARTY OF THE PAR	Subsoil Place	subgrade	Ex-17in	Pro-12in	9.45	varies	-9.23	-0.3	0%	-0.3
11.4	Play Surface to Asphalt	Asphalt Blace	Place 3" of asphalt	2/2	n/o	9.45	-0.25	-2.36	-0.1	0%	-0.1
11.4	to Asphalt	Asphalt Place	Place 3 of aspiralt	n/a	n/a	9.45	-0.25	-2.30	-0.1	070	-0.1
	C										
12.1	Grass to 5-	Topsoil Excavate	Strip 6" topsoil	n/a	n/a	67.17	0.50	33.59	1.2	0%	1.2
12.1	men concrete	Topson Excavate	Strip 6 topsoil	IVa	IVa	67.17	0.30	33.39	1.2	070	1.2
	Grass to 5-		Cut subsoil to proposed								
12.2	inch Concrete	Subsoil Excavate	subgrade	Ex-6in	Pro-8inch	67.17	varies	1.36	0.1	0%	0.1
				0.5							
40.0	Grass to 5-	Cube ell Bi	Fill subsoil to proposed	F., 6	D 0'	07.47		40.04	0.4	00/	0.4
12.3	inch Concrete	Subsoil Place	subgrade	Ex-6in	Pro-8inch	67.17	varies	-12.01	-0.4	0%	-0.4
	Cross to 5										
12.4	Grass to 5-	Concrete Place	Place 5"of concrete	n/a	n/a	67.17	-0.41	-27.54	-1.0	0%	-1.0
12.4	c.i Concrete	Controller Flace	, idea o oi conciete	100	100	57.17	0.71	-21.04	-1.0	370	1.0
	Grass to 5-										
12.5	inch Concrete	Gravel Place (Concrete)	Place 3" of gravel	n/a	n/a	67.17	-0.25	-16.79	-0.6	0%	-0.6

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



Graphical Scale

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PROJECT:

2020 PLAYGROUND IMPROVEMENTS-GROUP 3

PROJECT ADDRESS:

ORLANDO BELL PARK 2274 S THOMPSON DR MADISON, WI 53716

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PUBLIC WORKS PROJECT #:

8904

SHEET TITLE:

VOLUME COMPUTATIONS

SHEET NUM

Sort	Grp	Material	<i>ltem</i>	From Surface Model	To Surface Model	area (sq ft)	depth (ft)	Unfac- tored volume (cu ft)	Unfac- tored volume (cu yd)	Expan- sion Factor (%)	Factored (Uncom- pacted) Volume (cu yd)
	Play Surface		Remove existing play								
	to 5-inch		surface, estimated depth								
13.1		Play Surface Excavate	17in	n/a	n/a	12.79	1.42	18.12	0.7	0%	0.7
	Play Surface										
	to 5-inch	2.7 200	Cut subsoil to proposed		50 A V	5,722			0.7	5.5	l _{es}
13.2	T-700-77-77-	Subsoil Excavate	subgrade	Ex-17in	Pro-8inch	12.79	varies	0.07	0.0	0%	0.0
	Play Surface										
	to 5-inch		Fill subsoil to proposed						272		
13.3	Concrete	Subsoil Place	subgrade	Ex-17in	Pro-8inch	12.79	varies	-1.26	0.0	0%	0.0
	Grass to 5-										
12.4	The state of the s	Concrete Place	Place 5"of concrete	n/a	n/a	12.79	-0.41	-5.24	-0.2	0%	-0.2
12.7	Play Surface	Concrete 1 lace	Trace of or concrete	III a	Tiva .	12.70	0.41	0.24	-0.2	070	-0.2
	to 5-inch										
13.4	Concrete	Gravel Place (Concrete)	Place 3" of gravel	n/a	n/a	12.79	-0.25	-3.20	-0.1	0%	-0.1
		Play Surface Place	Increase play surface by 1/2 of asphalt ramp gravel base volume = 1/2 x (2.25 ft x 9 ft								
14	Adjust	(Rubber Mulch)	x 7 in)	n/a	n/a	31	-0.29		9 -0.3	0%	-0.3

Computation Summary			
Positive volumes are cuts (material available), negative volumes		
	Sum of Factored (Uncom-pacted)		
Row Labels	Volume (cu yd)		
Asphalt Place	-0.99		
Border Timbers Place (placeholder volume)	-3.71		
Concrete Excavate	0.77		
Concrete Place	-1.21		
Gravel Place (Concrete)	-0.74		
Gravel Place (pavement)	-2.72		
Pavement Excavate	3.31		
Play Surface Excavate	235.35		
Play Surface Place (Rubber Mulch)	-119.94		
Subsoil Excavate	2.79		
Subsoil Place	-197.45		
Topsoil Excavate	119.69		
Topsoil Place	-148.55		
Grand Total	-113.41		
Reorganized into bid table items			
Bid Item	Quantity	Units	Relation to Table Above
			= Subsoil Excavate +
			Topsoil Excavate +
20101 Excavation Cut	126	CY	Pavement Excavate
20103 Excavation Cut - Pea Gravel	235	CY	= Play Surface Excavate
			= Subsoil Excavate +
20202 Fill - Borrow	-195	CY	Subsoil Place
20221 Topsoil	890	SY	= (Topsoil Place)/167
40102 Crushed Aggregate Base Course			= ((Gravel Place) pavement
Gradation No. 2	1	tons	* -2 ton/cubic yard
			= Asphalt Place * -2.16
40202 HMA Pavement 4 LT 58-28 S	1.0	tons	ton/cubic yard
occor Division I out of the Division I	4.00	01/	= Play Surface Place
90005 Playground Surfacing - Rubber Mulch	143.9	CY	(Rubber Mulch * -1.2)

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



Graphical Scale
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PROJECT:

2020 PLAYGROUND IMPROVEMENTS-GROUP 3

PROJECT ADDRESS:

ORLANDO BELL PARK 2274 S THOMPSON DR MADISON, WI 53716

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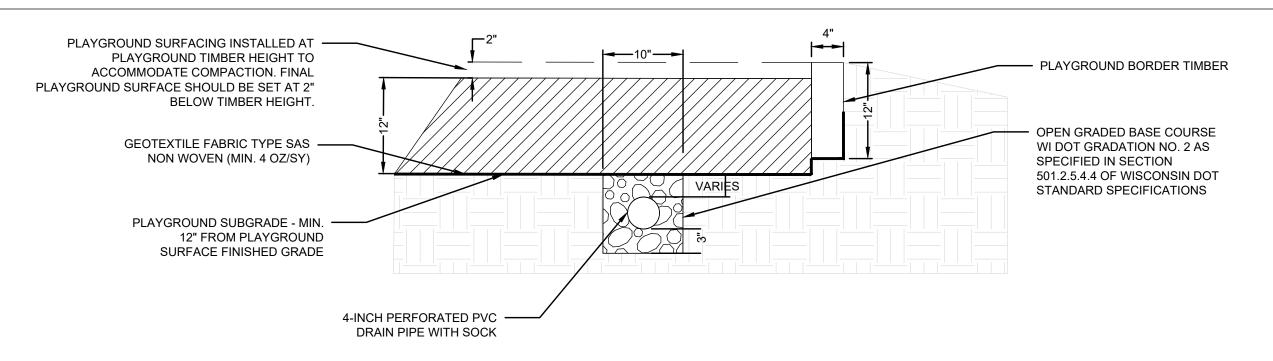
PUBLIC WORKS PROJECT #:

8904

SHEET TITLE:

VOLUME COMPUTATIONS

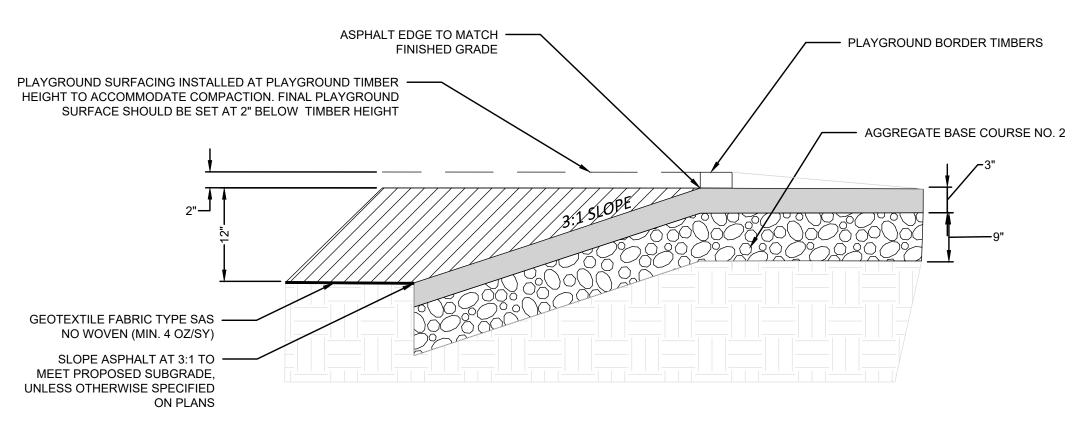
SHEET NUMBER:



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PLAYGROUND SURFACING WITH UNDERDRAIN

NOT TO SCALE



ASPHALT AT

ASPHALT AT PLAYGROUND EDGE

NOT TO SCALE

City of Madison Department of Public Works PARKS DIVISION

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



PROJECT:

2020 PLAYGROUND IMPROVEMENTS -GROUP 3

PROJECT ADDRESS:

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ITEM	DATE
ADVERTISED TO BID	2020-06-08

PUBLIC WORKS PROJECT #:

8904

SHEET TITLE:

DETAILS -PLAYGROUND & PAVEMENT EDGE

SHEET NUMBER: