# BELVEDERE MUNICIPAL UTILITY DISTRICT NOTICE OF MEETING

TO: THE BOARD OF DIRECTORS OF BELVEDERE MUNICIPAL UTILITY DISTRICT AND TO ALL OTHER INTERESTED PERSONS:

Notice is hereby given pursuant to V.T.C.A., Government Code Chapter 551, that the Board of Directors of Belvedere Municipal Utility District will hold a regular meeting, open to the public, on Tuesday, January 17, 2023 at 6:00 p.m., within the boundaries of the District, at the Belvedere Amenity Center, 17400 Flagler Drive, Austin, Texas, for the following purposes:

Meeting materials are available at www.belvederemud.org.

- 1. Call meeting to order and establish a quorum.
- 2. Discuss, consider, and take action to accept resignation of Director Golde.
- 3. Discuss, consider, and take action to appoint new director.
- 4. Discuss, consider, and take action concerning qualifying newly appointed director.
- 5. Discuss, consider, and take action concerning election of new officers.
- 6. Receive public comments.
- 7. Discuss, consider, and take action to approved audit for period ending September 30, 2022.
- 8. Discuss, consider, and take action to approve the minutes of the September 20, 2022 regular meeting.
- 9. Discuss, consider, and take action as necessary concerning report from the District's Bookkeeper and Finance Committee, including:
  - a. Payment and ratification of invoices;
  - b. Coordination on bookkeeping matters;
  - c. TexPool investments;
  - d. Reimbursement of costs to Belvedere HOA pursuant to the Joint Use and Maintenance Agreement; and
- 10. Discuss, consider, and take action regarding report from the District liaison to the HOA and from the HOA liaison to the District.
- 11. Discuss, consider, and take action regarding the appointment of a District liaison to the HOA to address drainage issues.
- 12. Discuss, consider, and take action as necessary concerning residential playground safety audit.
- 13. Discuss, consider, and take action as necessary concerning management of the District's website.
- 14. Discuss, consider, and take action regarding improvement, maintenance, and repair of existing and future assets owned or maintained by the District, including:
  - a. Report from the District's Engineer;

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- b. Drainage Facilities; and
- c. Trail maintenance.
- 15. Receive legislative update.
- 16. Discuss, consider, and take action on future meeting schedule.
- 17. Adjournment.

BELVEDA

The District may meet in executive session on any item listed above as provided by the Open Meetings Act, Tex. Gov't Code §§ 551.071, 551.072, 551.073, 551.074, or 551.075.

XECUTED this the 13th day of January, 2023.

Attorney for the District

\*

Belyedere Municipal Utility District is committed to compliance with the Americans with Disabilities Act.

Read (1900) 10 Hills District is communications will be provided upon request. Please call David Klein Reasonable Modifications and equal access to communications will be provided upon request. Please call David Klein at Lloyd Gosselink, Attorney for the District, at (512) 322-5818, for information.

Peter W. Golde 8301 Bellancia Dr. Austin, TX 78738

January 13, 2023

Belvedere Municipal Utility District Board and General Counsel

After more than eight years' service on the Belvedere Municipal Utility District Board I feel it is time that I step down and allow for a new Belvedere resident to contribute to the Board's mission.

Accordingly, I plan to resign from the Belvedere Municipal Utility District at the Board's next meeting on January 17, 2023.

It has truly been a pleasure to serve with the other Board members and consultants over the years.

Thank You

Peter W. Golde

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# FINANCIAL STATEMENTS, SUPPLEMENTAL INFORMATION AND INDEPENDENT AUDITOR'S REPORT

FOR THE YEAR ENDED SEPTEMBER 30, 2022

WEST, DAVIS & COMPANY, LLP

Certified Public Accountants

Austin, Texas

# Annual Financial Report For the Year Ended September 30, 2022

# ANNUAL FILING AFFIDAVIT

THE STATE OF TEXAS	}			
COUNTY OF TRAVIS	}			
I, James Koerner, President	of the Belvedere	Municipal Util	ity District hereby sv	wear, or affirm, tha
the district named above ha	is reviewed and a	pproved at a n	neeting of the Board	of Directors of the
District on the 17th day of J	January 2023, its	annual audit re	port for the fiscal yea	ar ended September
30, 2022, and that copies o	f the annual repo	ort have been fi	led in the district of	fice, located at 816
Congress, Suite 1900, Austi	n, Texas.			
The annual filing affidavit a	nd the attached co	opy of the annu	al audit report are be	ing submitted to the
Texas Commission on Envi	ronmental Quality	y in satisfaction	ı of all annual filing ı	equirements withir
Section 49.194 of the Texas	Water Code.			
		4.75 4.75 4.75		
Date: January 17, 2023		By:		
Sworn to and subscribed to	before me this 17	th day of Janua	ry 2023.	
		Notary:		
(Seal)				
My Commission expires on		Notary Puk	olic in and for the Sta	te of Texas
My Commission expires on	·,,	, rectary ruc	no mana ioi me sta	to or ronds.

# Annual Financial Report For the Year Ended September 30, 2022

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FINANCIAL SECTION

# WEST, DAVIS & COMPANY

A LIMITED LIABILITY PARTNERSHIP

# **Independent Auditor's Report**

Board of Directors Belvedere Municipal Utility District Austin, Texas

We have audited the accompanying financial statements of the governmental activities and each major fund of Belvedere Municipal Utility District (the District) as of and for the year ended September 30, 2022, and the related notes to the financial statements, which collectively comprise the District's basic financial statements as listed in the table of contents.

## **Opinions**

In our opinion the financial statements referred to above present fairly, in all material respects, the financial position of the governmental activities and each major fund of the District as of September 30, 2022, and the changes in financial position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

## **Basis for Opinions**

We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the District and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

## Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the District's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

# Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinions. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with generally accepted auditing standards will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with generally accepted auditing standards, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the District's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the District's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

## **Required Supplementary Information**

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and the budgetary comparison information be presented to supplement the basic financial statements. Such information is the responsibility of management

and, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

# **Supplementary Information**

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the District's basic financial statements. The Texas Commission on Environmental Quality required supplemental schedules are presented for purposes of additional analysis and are not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the Texas Commission on Environmental Quality required supplemental schedules are fairly stated, in all material respects, in relation to the basic financial statements as a whole.

#### Other Information

Management is responsible for the other information included in the annual report. The other information comprises the property tax assessed value information but does not include the basic financial statements and our auditor's report thereon. Our opinions on the basic financial statements do not cover the other information, and we do not express an opinion or any form of assurance thereon.

In connection with our audit of the basic financial statements, our responsibility is to read the other information and consider whether a material inconsistency exists between the other information and the basic financial statements, or the other information otherwise appears to be materially misstated. If, based on the work performed, we conclude that an uncorrected material misstatement of the other information exists, we are required to describe it in our report.

Austin, Texas December 31, 2022

# Management Discussion and Analysis For the Year Ended September 30, 2022

In accordance with Governmental Accounting Standards Board Statement 34 ("GASB 34"), the management of Belvedere Municipal Utility District (the "District") offers the following discussion and analysis to provide an overview of the District's financial activities for the year ended September 30, 2022. Since this information is designed to focus on current year's activities, resulting changes, and currently known facts, it should be read in conjunction with the District's financial statements that follow.

#### FINANCIAL HIGHLIGHTS

- General Fund: The unassigned fund balance at the end of the year was \$462 thousand, which was an increase of \$431 thousand from the end of the previous year end. Revenue decreased from \$235 thousand in the previous fiscal year to \$224 thousand in the current fiscal year primarily due to lower property tax rates.
- **Debt Service Fund:** The fund balance restricted for debt service increased from \$231 thousand at the end of the previous fiscal year to \$236 thousand at the end of the current fiscal year which was consistent with designated debt service property tax collections necessary to cover principal and interest payments due on bonds payable. Tax revenue increased from \$444 thousand to \$458 thousand over the previous fiscal year and debt service payments increased from the prior year. The District made bond principal payments of \$285 thousand and bond interest payments of \$170 thousand during the fiscal year.
- Capital Projects Fund: The fund balance decreased from \$4 to \$0 at the end of the year. This decrease was due to the District electing to close the capital projects fund cash account.
- Governmental Activities: On a Government-wide basis for governmental activities, the District had revenues in excess of expenses of approximately \$128 thousand. Net position increased from \$372 thousand to \$500 thousand. This increase is primarily due to bond principal payments not being expensed on the full accrual basis of accounting used in the statement of activities presentation.

## OVERVIEW OF THE DISTRICT

Belvedere Municipal Utility District (the District), a political subdivision of the State of Texas, was created by an order of the Texas Commission on Environmental Quality (TCEQ) on November 30, 2005 under Article XVI Section 59 of the Texas Constitution and operates pursuant to Chapters 49 and 54 of the Texas Water Code, as amended, and other general statutes of Texas applicable to municipal utility districts. The District was created and organized for the purpose of constructing water and drainage facilities and providing water services to residential and commercial establishments within the District and solid waste collection services. The District is also authorized to provide recreational facilities. The District is located entirely within Travis County.

# Management Discussion and Analysis For the Year Ended September 30, 2022

#### USING THIS ANNUAL REPORT

The District's reporting is comprised of five parts:

- Management's Discussion and Analysis (this section)
- Basic Financial Statements
  - Statement of Net Position and Reconciliation to Governmental Funds Balance Sheet
  - Statement of Activities and Reconciliation to Statement of Revenues, Expenditures, and Changes in Fund Balances of Governmental Funds
- Notes to the Financial Statements
- Required Supplementary Information
- Texas Supplementary Information (required by the Texas Commission on Environmental Quality)

The Government-wide statements are reported using the flow of economic resources measurement focus and the full accrual basis of accounting. The Governmental Fund financial statements are reported using the current financial resources measurement focus and the modified accrual basis of accounting.

For purposes of GASB 34, the District is considered a special purpose government. This allows the District to present the newly required fund and government-wide statements in a single schedule. The requirement for fund financial statements that are prepared on the modified accrual basis of accounting is met with the "Governmental Funds Total" column. An adjustment column includes those entries needed to convert to the full accrual basis government-wide statements. Government-wide statements are comprised of the Statement of Net Position and the Statement of Activities.

#### OVERVIEW OF THE BASIC FINANCIAL STATEMENTS

The Statement of Net Position and Governmental Funds Balance Sheet includes a column (titled "Governmental Funds Total") that represents a balance sheet prepared using the modified accrual basis of accounting. The adjustments column converts those balances to a balance sheet that more closely reflects a private-sector business. Over time, increases or decreases in the District's net assets will indicate financial health.

The Statement of Activities and Governmental Funds Revenues, Expenditures, and Changes in Fund Balances includes a column (titled "Governmental Funds Total") that derives the change in fund balances resulting from current year revenues, expenditures, and other financing sources or uses. These amounts are prepared using the modified accrual basis of accounting. The adjustments column converts those activities to full accrual, a basis that more closely represents the income statement of a private-sector business.

# Management Discussion and Analysis For the Year Ended September 30, 2022

The Notes to the Financial Statements provide additional information that is essential to a full understanding of the information presented in the Statement of Net Position and Governmental Funds Balance Sheet and the Statement of Activities and Governmental Funds Revenues, Expenditures, and Changes in Fund Balances.

The Required Supplementary Information presents a comparison statement between the District's adopted budget and its actual results.

## FINANCIAL ANALYSIS OF THE DISTRICT AS A WHOLE

# **Summary Statement of Net Position**

	G	overnmenta (in thou				
	September 2022		September 2021		Increase (Decrease)	
Current and Other Assets	\$	760	\$	772	\$	(12)
Capital and Non-Current Assets	i.	4,547		4,654		(107)
<b>Total Assets</b>		5,307		5,426	-	(119)
Current Liabilities		392		334		58
Long-Term Liabilities		4,415		4,720		(305)
Total Liabilities	:	4,807		5,054		(247)
Net Investment in Capital Assets		(200)		(379)		179
Restricted		236		236		-
Unrestricted		464		515		(51)
Total Net Position	\$	500	\$	372	\$	128

The District's total assets were approximately \$5.31 million as of September 30, 2022. Of this amount, approximately \$759 thousand is accounted for by cash and short-term investments. The District had outstanding liabilities of approximately \$4.8 million. The District's unrestricted net assets, which can be used to finance day to day operations, totaled \$464 thousand.

# Management Discussion and Analysis For the Year Ended September 30, 2022

# **Summary Statement of Activities**

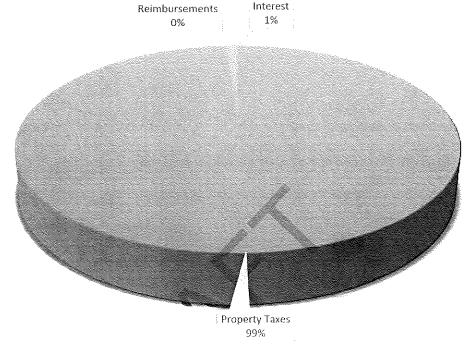
Governmental Activities

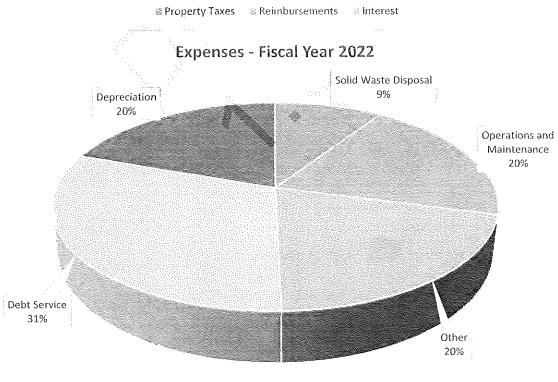
	(in thousands)						
					Increa	ase	
	202	2	202	1	(Decrease)		
Property Taxes	\$	669	\$	643	\$	26	
Reimbursements		2		19		(17)	
Interest		5_		3_		2	
Total Revenues		676		665		11	
Solid Waste Disposal		51		47		4	
Operations and Maintenance		109		116		(7)	
Other		112		106		6	
Debt Service		169		176		(7)	
Depreciation		107		107		-	
Total Expenses		548		552		(4)	
Other Financing Sources (Uses)				<u></u>		Line .	
Change in Net Assets		128		113		15	
Beginning Net Assets	÷. ·	372		259		113	
Ending Net Assets	\$	500	\$	372	\$	128	

Revenue was approximately \$676 thousand for the year ended September 30, 2022. Expenses and Other Financing Uses were approximately \$548 thousand for the year ended September 30, 2022. Net position increased about \$128 thousand primarily due to to bond principal payments not being expensed on the full accrual basis of accounting used in the statement of activities presentation. The following charts summarize the sources of revenue and areas of expenses.

# Management Discussion and Analysis For the Year Ended September 30, 2022

# Revenues-Fiscal Year 2022





Other

Debt Service

■ Depreciation

Operations and Maintenance

# Management Discussion and Analysis For the Year Ended September 30, 2022

#### FINANCIAL ANALYSIS OF THE DISTRICT'S FUND LEVEL STATEMENTS

In comparison to the Government-wide statements, the Fund-level statements focus on the key funds of the District. The District uses fund accounting to ensure and demonstrate compliance with finance-related legal requirements.

The District reports the following types of Governmental funds: General Fund, Debt Service Fund and Capital Projects Fund. The focus of the District's Governmental funds is to provide information on near-term inflows, outflows, and available resources. Such information is useful in assessing the District's financing requirements. In particular, unassigned fund balance may serve as a useful measure of a government's net resources available at the end of the fiscal year.

## **Summary Balance Sheet**

	Governmental Funds					
	(in thousands)					
	Septe	ember	Septe	ember	Inc	rease
	20	22	20	2021		rease)
Cash and Investments	\$	758	\$	763	\$	(5)
Accounts Receivable		-		8		(8)
Prepaid Expenses		2_		1		1
Total Assets		760		772		(12)
Accounts Payable		60		21		39
Deferred Inflow-Property Taxes				8		(8)
Total Liabilities		60		29		31
Nonspendable		2		1		1
Restricted for Debt Service		236		231		5
Restricted for Capital Projects				-		-
Assigned for Reserve		-		480		(480)
Unassigned		462		31		431
<b>Total Fund Balances</b>		700		743		(43)
<b>Total Liabilities and Fund Balances</b>	\$	760	\$	772	\$	(12)

# Management Discussion and Analysis For the Year Ended September 30, 2022

The General Operating Fund, which pays for daily operating expenses, has an unassigned balance of \$462 thousand at the end of the current fiscal year. This is an increase of \$431 thousand from the prior fiscal year.

The Debt Service Fund increased by \$5 thousand during the current fiscal year. This fund collected \$458 thousand in property taxes and remitted bond principal of \$285 thousand and bond interest of \$170 thousand during the year.

The Capital Projects Fund decreased to \$ -0- during the current fiscal year due to the District electing to close the capital projects fund cash account.

#### **BUDGETARY HIGHLIGHTS**

The Board of Directors adopted the fiscal year 2022 annual budget for the General Fund on September 20, 2021. The budget included revenues of \$209 thousand and expenditures of \$270 thousand. Actual revenue amounted to \$224 thousand and actual expenditures amounted to \$272 thousand. More detailed information about the District's budgetary comparison is presented in the Required Supplementary Information section.

## CAPITAL ASSETS

The District has invested \$5.3 million in infrastructure. A summary of these assets is listed below:

Governmental Activities

# **Summary of Capital Assets**

	Government Treatines					
	(in thousands)					
	September 2022		September 2021		Increase (Decrease)	
Drainage System	\$	2,274	\$	2,274	\$	-
Water System		2,150		2,150		-
Amenity Center		914		914		-
Accumulated Depreciation		(791)		(684)		(107)
<b>Total Capital Assets (Net)</b>		4,547	\$	4,654	\$	(107)

# Management Discussion and Analysis For the Year Ended September 30, 2022

## LONG TERM DEBT

The District has issued \$6.490 million in unlimited tax bonds and used the proceeds to acquire water, drainage and amenity facilities. Bonded indebtedness of the District at year end was \$4.72 million. More detailed information about the District's long-term debt is presented in the Notes to the Basic Financial Statements.

#### **ECONOMIC FACTORS**

The taxable assessed value of property within the District as of January 1, 2022 has been fixed by the Travis County Appraisal District at \$320 million. The tax rates adopted by the District on September 20, 2022 for the coming fiscal year are \$0.0775 for maintenance and operations and \$0.145 for debt service. The District expects this to produce \$712 thousand in total property tax revenue for next year. The adopted budget for fiscal year 2023 projects a decrease of approximately \$17 thousand to the operating fund balance.

# REQUESTS FOR INFORMATION

This financial report is designed to provide a general overview of the District's finances and to demonstrate the District's accountability for the funds it receives. Questions concerning any of the information provided in this report or requests for additional financial information should be addressed to the District in care of Lloyd Gosselink Rochelle and Townsend, PC, 816 Congress Avenue, Suite 1900, Austin, Texas 78701.

BASIC FINANCIAL STATEMENTS

# STATEMENT OF NET POSITION AND GOVERNMENTAL FUNDS BALANCE SHEET SEPTEMBER 30, 2022

	GENERAL	DEBT SERVICE	CAPITAL PROJECTS	TOTAL	ADJUST- MENTS	STATEMENT OF NET POSITION
ASSETS	_				_	
Cash	\$ 22,265	\$ 57,783	\$ -	\$ 80,048	\$ -	\$ 80,048
Investments	502,473	176,017	-	678,490	-	678,490
Taxes Receivable	un-	- 0.105	-	2.105	(2.105)	-
Due from Other Fund	-	2,195	-	2,195	(2,195)	1.026
Prepaid Expenses	1,935	_	-	1,935	1 050 460	1,935
Drainage System (net of depreciation)	-	~	-	-	1,850,468	1,850,468
Water System (net of depreciation)	-	-	-	-	1,849,405	1,849,405
Amenity Center (net of depreciation)					847,155	847,155
Total Assets	\$ 526,673	\$ 235,995	<u>\$</u> -	\$ 762,668	\$ 4,544,833	\$ 5,307,501
LIABILITIES			*.			
Accounts Payable	\$ 60,376	. \$ -	\$ -	\$ 60,376	\$ 26,770	\$ 87,146
Due to Other Fund	2,195	** **. <del>*</del>	-	2,195	(2,195)	-
Bonds Payable in less than one year	-	-	-	-	305,000	305,000
Bonds Payable in more than one year		_	•		4,415,000	4,415,000
Total Liabilities	62,571	<del></del>		62,571	4,744,575	4,807,146
DEFERRED INFLOWS OF RESOURCES				•		
Property Taxes	_					
Total Deferred Inflows						-
FUND EQUITY	Section 1		4			
Nonspendable	1,935	_	-	1,935	(1,935)	-
Restricted for Debt Service	•	235,995	-	235,995	(235,995)	-
Investment in General Fixed Assets	-	-	-	-		-
Assigned for Reserve	-	*	-	-	-	-
Unassigned	462,167			462,167	(462,167)	<b>44</b>
Total Fund Equity	464,102	235,995		700,097	(700,097)	
Total Liabilities, Fund Equity &						
Deferred Inflows of Resources	\$ 526,673	\$ 235,995	\$ -	\$ 762,668		
NET POSITION						
Net Investment in Capital Assets					(199,742)	(199,742)
Restricted for Debt Service					235,995	235,995
Unrestricted					464,102	464,102
Total Net Position					\$ 500,355	\$ 500,355

The notes to financial statements are an integral part of this statement.

# STATEMENT OF ACTIVITIES AND GOVERNMENTAL FUNDS REVENUES, EXPENDITURES AND CHANGES IN FUND BALANCES FOR THE YEAR ENDED SEPTEMBER 30, 2022

		DEBT	CAPITAL		ADJUST-	STATEMENT OF
<u>REVENUES</u>	GENERAL	SERVICE	PROJECTS	TOTAL	MENTS	ACTIVITIES
Property Taxes	\$ 218,489	\$ 458,163	\$ -	\$ 676,652	\$ (7,760)	\$ 668,892
Reimbursements	1,961	-	-	1,961	-	1,961
Interest	3,433	1,679	1	5,113	*	5,113
TOTAL REVENUES	223,883	459,842	1	683,726	(7,760)	675,966
<u>EXPENDITURES</u>						
Current:						
Solid Waste Disposal	50,794	-	-	50,794	-	50,794
Repairs and Maintenance	22,613	-	-	22,613	-	22,613
Amenity Center Operations	86,859	-	-	86,859	He	86,859
Accounting Fees	14,400	-	-	14,400	-	14,400
Audit Fees	7,500	-	-	7,500		7,500
Engineering Fees	35,787	-	M-	35,787	-	35,787
Legal Fees	46,103	-	-	46,103	-	46,103
Tax Assessor/Collector	4,395	-	**	4,395	•	4,395
Director Salaries and Payroll Taxes	-	**	-	••	-	-
Insurance	2,708	-	-	2,708	-	2,708
Legal Notices	897	-	-	. 897	-	897
Miscellaneous		<b></b>	5	5	-	5
Depreciation & Amortization		_	-	-	106,763	106,763
Debt Service:						
Fiscal Agent's Fees	. ·. · · <u>-</u>	1,326	-	1,326	-	1,326
Interest	_	168,644	-	168,644	(1,339)	167,305
Principal	-	285,000	-	285,000	(285,000)	-
Capital Expenditures	_	_	_	_	-	_
TOTAL EXPENDITURES	272,056	454,970	5	727,031	(179,576)	547,455
OTHER FINANCING SOURCES (USES)						
Transfer (to) from Other Funds	_	_	_	_	-	-
NET OTHER SOURCES (USES)	-		-	**	-	w <sup>a</sup>
Excess (Deficit) of Revenues and Other						
Financing Sources over Expenditures	(48,173)	4,872	(4)	(43,305)	43,305	-
Change in Net Position					128,511	128,511
Fund Balance/Net Position - Beginning	512,275	231,123	4	743,402	(371,558)	371,844
Fund Balance/Net Position - Ending	\$ 464,102	\$ 235,995	<u>\$</u> -	\$ 700,097	\$ (199,742)	\$ 500,355

The notes to financial statements are an integral part of this statement.

#### 1. Summary of Significant Accounting Policies

The basic financial statements of Belvedere Municipal Utility District (the District) have been prepared in conformity with accounting principles applicable to governmental units which are generally accepted in the United States of America. The Governmental Accounting Standards Board ("GASB") is the accepted standard setting body for establishing governmental accounting and financial reporting principles. The more significant of the accounting policies are described below.

Belvedere Municipal Utility District (the District), a political subdivision of the State of Texas, was created by an order of the Texas Commission on Environmental Quality (TCEQ) on November 30, 2005 under Article XVI Section 59 of the Texas Constitution and operates pursuant to Chapters 49 and 54 of the Texas Water Code, as amended, and other general statutes of Texas applicable to municipal utility districts. The District is subject to the continuing supervisory jurisdiction of the TCEQ.

The District is empowered, among other things, to finance, purchase, construct, operate and maintain all works, improvements, facilities and plants necessary for the supply and distribution of water and the control and diversion of storm water. The District may issue bonds and other forms of indebtedness to purchase or construct such facilities. The District may also provide solid waste collection and disposal services. The District is also empowered to establish, operate and maintain fire-fighting facilities, independently or with one or more conservation and reclamation districts, after approval by the TCEQ and the voters of the District. Additionally, the District may, subject to certain limitations, develop and finance recreational facilities.

The District is located approximately 23 miles west of downtown Austin on Hamilton Pool Road, just west of State Highway 71. The District lies wholly outside the extraterritorial jurisdiction of any city, town, or village of the State of Texas. Development of land within the District began in October 2005. The District has been developed for single family residential use. Hamilton Bee Cave, L.P. (Developer) has financed the design and construction of water and drainage facilities on land within the District. The District and Developer entered into an agreement whereby the District agreed to reimburse the Developer for its costs for the construction of facilities to the extent allowed by TCEQ. As of March 15, 2016, the District has reimbursed the Developer for all facilities constructed by the Developer and the Developer has transferred and conveyed the facilities to the District. On May 13, 2006, the District held a bond election whereby voters authorized the Board of Directors of the District to issue up to \$6,700,000 in unlimited tax bonds for water and drainage facilities and up to \$1,220,000 in unlimited tax bonds for recreational facilities.

# 1. Summary of Significant Accounting Policies (continued)

These financial statements report the financial activity of Belvedere Municipal Utility District. The reporting entity of the District encompasses those activities and functions over which the District's elected officials exercise significant oversight or control. The District is governed by a five member Board of Directors (the Board) that has been elected by District residents. The funds and account groups presented in this report are within the oversight responsibility of the Board, in accordance with Governmental Accounting Standards Board (GASB) Codification of Governmental Accounting and Financial Reporting Standards Part II, Financial Reporting. There are no component units of the District, nor is the District a component unit of any other entity.

## A. Basis of Presentation, Basis of Accounting

In accordance with GASB Statement No. 34, the District has elected to combine their Government-wide and Governmental Fund Financial Statements into one set of financial statements with a reconciliation of the individual line items in a separate column on the financial statements.

## **Government-wide Financial Statements:**

The Statement of Net Position and the Statement of Activities include the financial activities of the overall government. Governmental activities are generally financed through property taxes.

The **Statement of Activities** presents a comparison between direct expenses and program revenues for each function of the District's governmental activities. Direct expenses are those that are specifically associated with a program or function and, therefore, are clearly identifiable to a particular function.

#### **Fund Financial Statements:**

The governmental fund financial statement columns are labeled **Government Funds Balance Sheet** and **Governmental Funds Revenue**, **Expenditures and Changes in Fund Balance**. In the fund financial statements, the accounts of the District are organized on the basis of funds, each of which is considered a separate accounting entity. The emphasis of fund financial statements is on major governmental funds, each displayed in a separate column. The District reports the following major governmental funds:

General Fund: This is the District's primary operating fund. It accounts for all financial resources of the District except those required to be accounted for in another fund.

## 1. Summary of Significant Accounting Policies (continued)

**Debt Service Fund**: The Debt Service Fund is used to account for the accumulation of financial resources for, and the payment of, general long term debt principal and interest.

Capital Projects Fund: The Capital Projects Fund is used to account for the acquisition or construction of major capital facilities. Principal sources of revenue are municipal long-term debt proceeds and interest income.

## B. Measurement Focus, Basis of Accounting

The Government-wide financial statements are reported using the flow of economic resources measurement focus and the accrual basis of accounting. Revenue is recorded when earned and expenses are recorded when a liability is incurred, regardless of the timing of related cash flows. Property taxes are recognized as revenue in the year for which they are levied.

Governmental Fund Financial Statements: Governmental funds are reported using the current financial resources management focus and the modified accrual basis of accounting. Under this method, revenues are recognized when measurable and available. The District does not consider revenues collected after its year end to be available in the current period. Revenues from local sources consist primarily of property taxes. Miscellaneous revenues are recorded as revenues when received in cash because they are generally not measurable until actually received. Investment earnings are recorded as earned, since they are both measurable and available. Expenditures are recorded when the related fund liability is incurred, except for principal and interest on long term debt, which is recognized as an expenditure to the extent that it has matured. General capital asset acquisitions are reported as expenditures in major governmental funds. Proceeds of general long term debt are reported as other financing sources.

#### C. Fund Balances

The District has adopted GASB Statement No. 54 Fund Balance Reporting and Governmental Fund Type Definitions which establishes fund balance classifications that comprise a hierarchy based primarily on the extent to which a government is bound to observe constraints imposed upon the use of the resources reported in governmental funds.

Those fund balance classifications are described below.

Nonspendable – Amounts that cannot be spent because they are either not in a spendable form or are legally or contractually required to be maintained intact.

# 1. Summary of Significant Accounting Policies (continued)

<u>Restricted</u> – Amounts that can be spent only for specific purposes because of constraints imposed by external providers, or imposed by constitutional provisions or enabling legislation.

<u>Committed</u> – Amounts that can only be used for specific purposes pursuant to approval by formal action by the Board.

<u>Assigned</u> – For the General Fund, amounts that are appropriated by the Board or Board designee, if any, that are to be used for specific purposes. For all other governmental funds, any remaining positive amounts not previously classified as nonspendable, restricted or committed.

<u>Unassigned</u> – Amounts that are available for any purpose; these amounts can be reported only in the District's General Fund.

Fund balance of the District may be committed for a specific purpose by formal action of the Board, the District's highest level of decision-making authority. Commitments may be established, modified, or rescinded only through a resolution approved by the Board. The Board has not delegated the authority to assign fund balance.

## D. Budget

The Board adopted an annual budget for the General Fund on the basis consistent with generally accepted accounting principles. The District's Board of Directors utilizes the budget as a management tool for planning and cost control purposes. All annual appropriations lapse at fiscal year end.

#### E. Pensions

The District has not established a pension plan.

## F. Cash and Cash Equivalents

These include cash on deposit as well as investments with maturities of three months or less at the time of purchase.

## G. Prepaid Items

Certain payments to vendors reflect costs applicable to future periods and are recorded as prepaid assets in both the government-wide and fund financial statements. Prepaid assets are charged to expenditures when consumed.

## 1. Summary of Significant Accounting Policies (continued)

## H. Capital Assets

Capital assets, which include Easements, Water Distribution System, Water Quality Ponds and Organizational Costs are reported in the Government-wide column in the Statement of Net Assets. Capital assets are defined by the District as assets with an initial, individual cost of at least \$1,000. Public domain ("infrastructure") capital assets including water, and drainage systems, are capitalized as acquired. Items purchased or acquired are reported at historical cost or estimated historical cost. Contributed fixed assets are recorded as capital assets at estimated fair value at the time received. Capital assets are depreciated using the straight line method over their estimated useful lives of 50 years.

#### I. Interfund Transactions

Transfers from one fund to another fund are reported as interfund receivable and payables if there is intent to repay that amount and if the debtor fund has the ability to repay the advance on a timely basis. Operating transfers represent legally authorized transfers from the fund receiving resources to the fund through which the resources are to be expended.

# J. Long-Term Debt

Unlimited tax bonds, which have been issued to acquire capital assets, are to be repaid from tax revenues of the District. In the Government-wide financial statements, long-term debt and other long-term obligations are reported as liabilities in the applicable governmental activities. Bond premiums and discounts are deferred and amortized over the life of the bonds. Bonds payable are reported net of the applicable bond premium or discount. Bond issuance costs are expensed as incurred.

In the fund financial statement, governmental fund types recognize bond premiums and discounts, as well as bond issuance costs, during the current period. The face amount of debt issued is reported as other financing sources. Premiums and discounts on debt issuances are reported as other financing sources and uses. Issuance costs, whether or not withheld from the actual debt proceeds received, are reported as expenditures.

# K. Deferred Outflows and Inflows of Resources

GASB Statement No. 63, Financial Reporting of Deferred Outflows of Resources, Deferred Inflows of Resources, and Net Position, provides guidance for reporting the financial statement elements of deferred outflows of resources, which represent the consumption of the District's net position that is applicable to a future reporting period, and deferred inflows of resources, which represent the District's acquisition of net position applicable to a future reporting period. GASB Statement No. 63 became effective for fiscal

## 1. Summary of Significant Accounting Policies (continued)

years beginning after December 15, 2011 and has been implemented in the financial statements.

GASB Statement No. 65, *Items Previously Reported as Assets and Liabilities*, establishes accounting and financial reporting standards that reclassify, as deferred outflows of resources or deferred inflows of resources, certain items that were previously reported as assets and liabilities and recognizes, as outflows of resources or inflows of resources, certain items that were previously reported as assets and liabilities. GASB Statement No. 65 is effective for fiscal years beginning after December 15, 2012 and has been implemented in these financial statements.

#### 2. Cash and Investments

The investment policies of the District are governed by State statute and an adopted District Investment Policy that includes depository contract provisions and custodial contract provisions. Major provisions of the District's Investment Policy include: depositories must be FDIC-insured Texas banking institutions; depositories must fully insure or collateralize all demand and time deposits; securities collateralizing time deposits are held by independent third party trustees.

Cash – At year end, deposits were held by the District's depository bank in accounts that were secured at the balance sheet date by Federal Deposit Insurance Corporation (FDIC) coverage or by pledged collateral held by the District's agent bank in the District's name.

Investments - The District is required by Government Code Chapter 2256, The Public Funds Investment Act, to adopt, implement, and publicize an investment policy. That policy must be written; primarily emphasize safety of principal and liquidity; address investment diversification, yield, and maturity and the quality and capability of investment management; and include a list of the types of authorized investments in which the investing entity's funds may be invested; and the maximum allowable stated maturity of any individual investment owned by the entity.

The Public Funds Investment Act ("Act") requires an annual audit of investment practices. Audit procedures in this area conducted as part of the audit of the general purpose financial statements disclosed that in the areas of investment practices, management reports and establishment of appropriate policies, the District adhered to the requirement of the Act. Additionally, investment practices of the District were in accordance with local policies.

## 2. Cash and Investments (continued)

The Act determines the types of investments which are allowable for the District. These include, with certain restriction, (1) obligations of the US Treasury, certain US Agencies, and the State of Texas, (2) certificates of deposit, (3) certain municipal securities, (4) money market savings accounts, (5) repurchase agreements, (6) banker's acceptances, (7) mutual funds, (8) investment pools, (9) guaranteed investment contracts, and (10) commercial paper.

The District categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on the valuation inputs used to measure the fair value of the asset. Level 1 inputs are quoted prices in active markets for identical assets; Level 2 inputs are significant other observable inputs; Level 3 inputs are significant unobservable inputs.

The District's investments at year end are shown below.

Fair	Value
1 411	Y aluc

<u>Investment</u>	<u>Level</u>	Rating	<u>Maturity</u>	<u>Fair Value</u>
TexPool	N/A	AAAm	1 day average	\$678,490

Analysis of Specific Cash and Investment Risks – GASB Statement No. 40 requires a determination as to whether the District was exposed to the following specific investment risks at year end and, if so, the reporting of certain related disclosures.

Credit Risk – Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations. The ratings of securities by nationally recognized rating agencies are designed to give an indication of credit risk. At year end, the District was not significantly exposed to credit risk.

Custodial Credit Risk – Deposits are exposed to custodial credit risk if they are not covered by depository insurance and the deposits are uncollateralized, collateralized with securities held by the pledging financial institution, or collateralized with securities held by the pledging financial institution's trust department or agent but not in the District's name.

Investment securities are exposed to custodial credit risk if the securities are uninsured, are not registered in the name of the government, and are held by either the counterpart or the counterparty's trust department or agent but not in the District's name. At year end, the District was not exposed to custodial credit risk.

**Concentration of Credit Risk** – This risk is the risk of loss attributed to the magnitude of a government's investment in a single issuer. At year end, the District was not exposed to concentration of credit risk.

## 2. Cash and Investments (continued)

*Interest Rate Risk* – This is the risk that changes in interest rates will adversely affect the fair value of an investment. At year end, the District was not exposed to interest rate risk.

Foreign Currency Risk – This is the risk that exchange rates will adversely affect the fair value of an investment. At year end, the District was not exposed to foreign currency risk.

Investment Accounting Policy – The District's general policy is to report money market investments and short-term participating interest-earning investment contracts at amortized cost and to report nonparticipating interest-earning investment contracts using a cost-based measure. However, if the fair value of an investment is significantly affected by the impairment of the credit standing of the issuer or by other factors, it is reported at fair value. All other investments are reported at fair value unless a legal contract exists which guarantees a higher value. The term "short-term" refers to investments which have a remaining term of one year or less at time of purchase. The term "nonparticipating" means that the investment's value does not vary with market interest rate changes. Nonnegotiable certificates of deposit are examples of nonparticipating interest-earning investment contracts.

Public Funds Investment Pools – Public funds investment pools in Texas ("Pools") are established under the authority of the Interlocal Cooperation Act, Chapter 79 of the Texas Government Code, and are subject to the provisions of the Public Funds Investment Act (the "Act"), Chapter 2256 of the Texas Government Code. In addition to other provisions of the Act designed to promote liquidity and safety of principal, the Act requires Pools to: 1) have an advisory board composed of participants in the Pool and other person who do not have a business relationship with the Pool and are qualified to advise the Pool; 2) maintain a continuous rating of no lower than AAA or AAA-m or an equivalent rating by at least on nationally recognized rating service; and 3) maintain the market value of its underlying investment portfolio with one half of one percent of the value of its shares.

The District's investments in Pools are reported at an amount determined by the fair value per share of the Pool's underling portfolio, unless the Pool is 2a7-like, in which case they are reported at share value. A 2a7-like Pool is one which is not registered with the Securities and Exchange Commission ("SEC") as an investment company, but nevertheless has a policy that it will, and does, operate in a manner consistent with the SEC's Rule 2a7 of the Investment Company Act of 1940.

## 2. Cash and Investments (continued)

TexPool - The District invests in the Texas Local Government Investment Pool (TexPool), which is a local government investment pool that was established in conformity with the Interlocal Cooperation Act, Chapter 791 of the Texas Government Code, and operates under the Public Funds Investment Act, Chapter 2256 of the Texas Government Code. The State Comptroller of Public Accounts oversees TexPool. Federated Investors, Inc. is the administrator and investment manager of TexPool under a contract with the State Comptroller. In accordance with the Public Funds Investment Act, the State Comptroller has appointed the TexPool Investment Advisory Board to advise with respect to TexPool. The board is composed equally of participants in TexPool Portfolios and other persons who do not have a business relationship with TexPool Portfolios and are qualified to advise in respect to TexPool Portfolios. The Advisory Board members review the investment policy and management fee structure. TexPool is rated AAAm by Standard & Poor's and operates in a manner consistent with the SEC's Rule 2a7 of the Investment Company Act of 1940. All investments are stated at amortized cost, which usually approximates the market value of the securities. The stated objective of TexPool is to maintain a stable average \$1.00 per unit net asset value; however, the \$1.00 net asset value is not guaranteed or insured. The financial statements can be obtained from the Texas Trust Safekeeping Trust Company website at www.ttstc.org.

# 3. Property Taxes

Property taxes are considered available when collected within the current period or expected to be collected soon enough thereafter to be used to pay liabilities of the current period. The District levies its taxes on October 1 in conformity with Subtitle E, Texas Property Tax Code. Taxes are due upon receipt of the tax bill and are past due and subject to interest if not paid by February 1 of the year following the October 1 levy date. The assessed value of the property tax roll on January 1, 2021, upon which the levy for the 2021-22 fiscal year was based, was \$252,706,306. Taxes are delinquent if not paid by June 30. Delinquent taxes are subject to both penalty and interest charges plus delinquent collection fees for attorney costs.

The tax rates assessed for the year ended September 30, 2022, to finance General Fund operations and the payment of principal and interest on general obligation long-term debt were \$0.085 and \$0.18 per \$100 valuation, respectively, for a total of \$0.265 per \$ 100 valuation.

Current tax collections for the year ended September 30, 2022 were 100% of the year end adjusted tax levy. Delinquent taxes are prorated between maintenance and debt service based on rates adopted for the year of the levy. The District is prohibited from writing off real property taxes without specific statutory authority from the Texas Legislature. As of September 30, 2022, property taxes receivable, totaled \$ -0- and \$ -0- for the General and Debt Service Funds, respectively.

## 4. Capital Assets

In February, 2010, October, 2011, and March, 2016, the District acquired \$4,009,347 of Water Distribution Facilities and Drainage Facilities serving the District's residents. Under an Amended and Restated Water Facilities Lease and Services Agreement between the District and the West Travis County Public Utility Agency (the PUA), all of the District's internal Water Distribution Facilities are leased to the PUA in exchange for the PUA's agreement to provide retail water service to the District's residents. The PUA is responsible for their operation and maintenance.

During previous years, the District acquired an amenity center that serves the District's residents. During the current fiscal year, the District had no capitalized additions.

These facilities are being depreciated over 50 years using the straight-line method. Depreciation and amortization in the amount of \$106,763 has been charged to system operations for the year for these assets. A summary of changes in capital assets follows:

	Balance			Balance
Capital Assets:	9/30/2021	Additions	Deletions	9/30/2022
Drainage System	\$ 2,274,396	\$ -	\$ -	\$ 2,274,396
Water System	2,150,469	-	-	2,150,469
Amenity Center	913,306	**	Vh	913,306
Total	5,338,171	**	-	5,338,171
Accumulated Depreciation:				
Drainage System	(378,441)	(45,488)	-	(423,929)
Water System	(258,054)	(43,009)	-	(301,063)
Amenity Center	(47,885)	(18,266)		(66,151)
Total	(684,380)	(106,763)		(791,143)
<b>Total Capital Assets (Net)</b>	\$ 4,653,791	\$(106,763)	<u> </u>	\$ 4,547,028

#### 5. Bonds

At an election held within the District on May 13, 2006, voters authorized a total of \$7,920,000 unlimited tax bonds for the purpose of purchasing, constructing, acquiring, owning, improving, extending, maintaining, repairing, or operating a waterworks system, a drainage and storm water system and recreational facilities for the District. The District's bonds are collateralized by the levy of an annual ad valorem tax against all taxable property within the District. The District has no direct borrowings or direct placement debt.

## 5. Bonds (continued)

In February 2010, the District issued \$2,350,000 of these bonds dated January 15, 2010. The bonds mature serially on August 1, in each year 2013 through 2030, in principal amounts set forth on the following page. Bonds maturing on or after August 1, 2021, are subject to redemption, in whole or in part, on August 1, 2019, or on any date thereafter, at a price equal to the principal amount thereof plus accrued interest thereon to the date fixed for redemption. Bonds maturing in the years 2022, 2024, 2026 and 2030 are also subject to mandatory sinking fund redemption.

In October 2011, the District issued \$1,920,000 of these bonds dated October 1, 2011. The bonds mature serially on August 1, in each year 2014 through 2036, in principal amounts set forth on the following page. Bonds maturing on or after August 1, 2021, are subject to redemption, in whole or in part, on August 1, 2021, or on any date thereafter, at a price equal to the principal amount thereof plus accrued interest thereon to the date fixed for redemption. Bonds maturing in the years 2021, 2022, 2024, 2026, 2028, 2031 and 2036 are also subject to mandatory sinking fund redemption.

In March 2016, the District issued \$1,000,000 of these bonds dated February 15, 2016. The bonds mature serially on August 1, in each year 2019 through 2039, in principal amounts set forth on the following page. Bonds maturing on or after August 1, 2024, are subject to redemption, in whole or in part, on August 1, 2023, or on any date thereafter, at a price equal to the principal amount thereof plus accrued interest thereon to the date fixed for redemption. Bonds maturing in the years 2026, 2029, 2033, 2035, 2037, and 2039 are also subject to mandatory sinking fund redemption.

In August 2016, the District issued \$3,570,000 of Unlimited Tax Refunding Bonds dated August 15, 2016. The bonds mature serially on August 1, in each year 2017 through 2036, in principal amounts set forth on the following page. Bonds maturing on or after August 1, 2027, are subject to redemption, in whole or in part, on August 1, 2026, or on any date thereafter, at a price equal to the principal amount thereof plus accrued interest thereon to the date fixed for redemption. Bonds maturing in the years 2033, and 2036 are also subject to mandatory sinking fund redemption.

In February 2019, the District issued \$1,220,000 of these bonds dated February 27, 2019. The bonds mature serially on August 1, in each year 2019 through 2039, in principal amounts set forth on the following page. Bonds maturing on or after August 1, 2026, are subject to redemption, in whole or in part, on August 1, 2025, or on any date thereafter, at a price equal to the principal amount thereof plus accrued interest thereon to the date fixed for redemption. Bonds maturing in the years 2028, 2030, 2032, 2034, 2036, and 2038 are also subject to mandatory sinking fund redemption.

# 5. Bonds (continued)

These bonds are described as follows:

	Original	Installments			
<u>Issue</u>	Issue Amount	(In Thousands)	Final Maturity	Interest Rates	Outstanding
Series 2010	\$2,350,000	\$65 to 225	2030	4.00-5.70%	\$ -0-
Series 201	1 \$1,920,000	\$40 to 145	2036	4.25-5.00%	\$ -0-
Series 2010	5 \$1,000,000	\$25 to 145	2039	2.00-3.50%	\$ 860,000
Series 2010	6R\$3,570,000	\$45 to 360	2036	2.00-4.00%	\$2,870,000
Series 2019	9 \$1,220,000	\$40 to 160	2038	2.00-3.25%	\$ 990,000

The change in bonds is as follows:

	Balance				Balance	
Bonds:	9/30/2021	Additions		<b>Deletions</b>	9/30/2022	
Unlimited Tax Bonds, Series 2016	\$890,000	\$	-	\$ (30,000)	\$ 860,000	
Unlimited Tax Bonds, Series 2016R	3,080,000		-	(210,000)	2,870,000	
Unlimited Tax Bonds, Series 2018	1,035,000		_	(45,000)	990,000	
<b>Total Bond Indebtedness</b>	\$5,005,000	\$	-	\$(285,000)	\$ 4,720,000	

# Redemption

Series 2010 Bonds maturing on or after August 1, 2021, are subject to redemption, in whole or in part, on August 1, 2019, or on any date thereafter at a price equal to the principal amount thereof plus unpaid accrued interest from the most recent interest payment date to the date fixed for redemption. Additionally, term bonds maturing on in the years 2022, 2024, 2026 and 2030 are subject to mandatory sinking fund redemption.

Series 2011 Bonds maturing on or after August 1, 2021, are subject to redemption, in whole or in part, on August 1, 2021, or on any date thereafter at a price equal to the principal amount thereof plus unpaid accrued interest from the most recent interest payment date to the date fixed for redemption. Additionally, term bonds maturing on in the years 2021, 2022, 2024, 2026, 2028, 2031 and 2036 are subject to mandatory sinking fund redemption.

# 5. Bonds (continued)

Series 2016 Bonds maturing on or after August 1, 2024, are subject to redemption, in whole or in part, on August 1, 2023, or on any date thereafter, at a price equal to the principal amount thereof plus unpaid accrued interest from the most recent interest payment date to the date fixed for redemption. Additionally, term bonds maturing in the years 2026, 2029, 2033, 2035, 2037 and 2039 are also subject to mandatory sinking fund redemption.

Series 2016R Bonds maturing on or after August 1, 2027, are subject to redemption, in whole or in part, on August 1, 2026, or on any date thereafter, at a price equal to the principal amount thereof plus unpaid accrued interest from the most recent interest payment date to the date fixed for redemption. Additionally, term bonds maturing in the years 2033 and 2036 are also subject to mandatory sinking fund redemption.

Series 2019 Bonds maturing on or after August 1, 2026, are subject to redemption, in whole or in part, on August 1, 2025, or on any date thereafter, at a price equal to the principal amount thereof plus unpaid accrued interest from the most recent interest payment date to the date fixed for redemption. Additionally, term bonds maturing in the years 2028, 2030, 2032, 2034, 2036 and 2038 are also subject to mandatory sinking fund redemption.

#### Debt Service Requirements

Debt service requirements on long-term debt as of the end of the year are as follows:

Ending September 30,	Principal	<u>Interest</u>		<u>Totals</u>	
2023	\$ 305,000	\$	160,619	\$	465,619
2024	320,000		151,819		471,819
2025	340,000		140,175		480,175
2026	355,000		127,731		482,731
2027	370,000		114,781		484,781
2028-2032	1,675,000		362,930		2,037,930
2033-2037	1,130,000		137,371		1,267,371
2038-2042	 225,000		10,300	***************************************	235,300
Totals	\$ 4,720,000		1,205,726		5,925,726

#### BELVEDERE MUNICIPAL UTILITY DISTRICT NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED SEPTEMBER 30, 2022

#### 5. Bonds (continued)

#### Advance Refunding of Debt

GASB Statement No. 7, Advance Refundings Resulting in Defeasance of Debt, provides that refunded Debt and assets placed in escrow for the payment of related debt service be excluded from the financial statements. As of September 30, 2022, outstanding balances of bond issues that have been refunded and defeased in-substance by placing existing assets and the proceeds of new bonds in an irrevocable trust to provide for all future debt service payments are as follows:

Bond Issue	<u>Amount</u>
Series 2010	\$1,420,000
Series 2011	\$1,445,000

#### 6. Risk Management

The District is exposed to various risks of loss related to torts, theft, damage or destruction of assets, errors and omissions, and natural disasters. During the year, the District obtained liability coverage.

#### 7. Contingencies

In the opinion of the District, no significant contingencies or reportable litigation exist as of the end of the current fiscal year.

#### 8. Estimates

The preparation of financial statements in accordance with U.S. generally accepted accounting principles requires management to make estimates and assumptions that affect the amounts reported in the financial statements and accompanying notes. Actual results may differ from those estimates.

#### 9. Subsequent Events

The District has evaluated subsequent events as of December 31, 2022, the date the financial statements were available to be issued.

#### BELVEDERE MUNICIPAL UTILITY DISTRICT NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED SEPTEMBER 30, 2022

#### 10. Reconciliation of Government-wide and Fund Financial Statements

Adjustments to convert the Governmental Funds Balance Sheet to the Statement of Net Assets are as follows:

Governmental Funds Total Fund Balances	\$ 700,097
Capital assets used in governmental activities are not financial	
resources and, therefore, are not reported in the funds	4,547,028
Long-term liabilities (bonds payable) are not due and payable in	
the current period and, therefore, are not reported in the funds	(4,720,000)
Interest is accrued on outstanding debt in the government-wide	
statements, whereas in the governmental funds, an interest	
expenditure is reported when made and not accrued in the funds	(26,770)
Deferred tax revenue is not available to pay for current period	
expenditures and, therefore, is deferred in the funds	
Total Net Assets	\$ 500,355

#### BELVEDERE MUNICIPAL UTILITY DISTRICT NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED SEPTEMBER 30, 2022

#### 10. Reconciliation of Government-wide and Fund Financial Statements (continued)

Amounts reported for governmental activities in the Statement of Activities are different from the Governmental Funds Statement of Revenues, Expenditures and Changes in Fund Balance as follows:

Governmental Funds Excess of Revenues over Expenditures	\$ (43,305)
Revenues in the Statement of Activities that do not provide current financial resources are not reported as revenues in the funds  Change in Deferred Tax Revenue	(7,760)
Governmental funds report capital outlays as expenditures	
however, in the Statement of Activities, the cost of those assets is	
allocated over their estimated useful lives as depreciation expense	
Capital Outlay	-
Depreciation Expense	(106,763)
Governmental funds report principal payments as expenditures	
however, in the Statement of Activities, these payments are not	
reported as operating expenses	
Bond Principal	285,000
Governmental funds do not report the change in accrued interest	
as an expenditure, however, in the Statement of Activities, this	
change in the amount accrued is reported as an expense	
Accrued Interest	1,339
Bond Proceeds are reported as other financing sources in the	
governmental funds and thus contribute to the change in	
fund balance. In the Statement of Net Position, however,	
issuing debt increases long-term liabilities and does not	
affect the Statement of Net Position	
Bond Proceeds	
Change in Net Assets	\$ 128,511

#### REQUIRED SUPPLEMENTARY INFORMATION

# COMBINED STATEMENT OF REVENUES, EXPENDITURES AND CHANGES IN FUND BALANCES - GENERAL FUND BUDGET AND ACTUAL FOR THE YEAR ENDED SEPTEMBER 30, 2022

		ORIGINAL BUDGET		AMENDED BUDGET		CTUAL	FAVORABLE (UNFAVORABLE)	
REVENUES								
Property Taxes	\$	207,918	\$	217,451	\$	218,489	\$	1,038
Reimbursements		-		-		1,961		1,961
Interest		1,000		2,000		3,433		1,433
TOTAL REVENUES		208,918		219,451		223,883	***************************************	4,432
EXPENDITURES								
Current:								
Solid Waste Disposal		50,000		50,794		50,794		-
Landscaping		-		_		<u>.</u>		-
Maintenance		26,000		26,000		22,613		(3,387)
Amenity Center		85,000		85,000		86,859		1,859
Accounting Fees		14,400		14,400		14,400		-
Audit Fees		7,500		7,500		7,500		-
Engineering Fees		31,000		31,000		35,787		4,787
Legal Fees		45,000		45,000	•	46,103		1,103
Tax Assessor/Collector		5,000		5,000		4,395		(605)
Director Salaries and Payroll Taxes		-		1233		-		-
Insurance		4,000		4,000		2,708		(1,292)
Legal Notices		2,000		2,000		897		(1,103)
Bank Charges and Other		800		800		<u>.</u>		(800)
Debt Service:								-
Fiscal Agent's Fees		_		-		-		-
Interest		-		_		-		-
Principal		-		-		-		-
Capital Expenditures		-		_		_		-
TOTAL EXPENDITURES		270,700		271,494		272,056		562
Excess (Deficit) of Revenues Over Expenditures		(61,782)		(52,043)		(48,173)		3,870
Transfers (to) from Other Funds		-		-		-		-
Fund Balance - Beginning of Year		512,275		512,275		512,275		
Fund Balance - End of Year	\$	450,493	\$	460,232	\$	464,102	\$	3,870

See accompanying independent auditor's report

## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY SUPPLEMENTARY INFORMATION

# BELVEDERE MUNICIPAL UTILITY DISTRICT INDEX OF SUPPLEMENTAL SCHEDULES REQUIRED BY THE TEXAS WATER COMMISSION FOR THE YEAR ENDED SEPTEMBER 30, 2022

(Schedules included are checked; explanatory notes are provided for omitted schedules).

[√]	Schedule of Services and Rates
$[\sqrt{\ ]}$	Schedule of General Fund Expenditures
[1]	Temporary Investments
[√]	Analysis of Taxes Levied and Receivable
$[\sqrt{\ ]}$	General Long Term Debt Service Requirements by Years
[\forall ]	Analysis of Changes in General Long Term Debt
[√]	Comparative Schedule of Revenues and Expenditures - General Fund
[1]	Comparative Schedule of Revenues and Expenditures – Debt Service Fund
[1]	Board Members, Key Personnel, and Consultants

# BELVEDERE MUNICIPAL UTILITY DISTRICT SERVICES AND RATES SEPTEMBER 30, 2022

#### 1. Services Provided by the District:

Drainage Solid Waste Disposal

#### 2. Retail Rates Based on 5/8" Meter

				Flat	Rat	e per first	Ra	te per add'l			
	Minimum Charge		Minimum Minii		Minimum	Rate	100	1000 Gallons		1000 Gallons	
			Usage	Y/N	Over Minimum		Over Minimum				
Water:	\$	N/A	N/A	N/A	\$	N/A	\$	N/A			
Wastewater:	\$	N/A	N/A	N/A	\$	N/A	\$	N/A			
Surcharge:		-0-									

Total water and wastewater charges per 10,000 gallons usage: \$ N/A

3. Retail Service Provided: Number of retail water and/or wastewater connections.

			Inactive
	Active	Active	Connections
	Connections	EFSC	(EFSC)
Single Family & Total	N/A	N/A	N/A

#### 4. Total Water Consumption During the Fiscal Year:

Gallons pumped into system: N/A Gallons billed to customers: N/A

5. Standby Fees: The District does not assess standby fees.

6. Anticipated sources of funds to be used for debt service payments: Ad Valorem taxes

#### 7. Location of District:

The District is located entirely within Travis County.

The District is not located within any city.

The District is not located within any city ETJ.

The general membership of the Board is not appointed by an office outside the District.

### SCHEDULE OF GENERAL FUND EXPENDITURES YEAR ENDED SEPTEMBER 30, 2022

#### Current:

Purchased Services for Resale	
Water	\$ -
Wastewater	_
Connection Fees	
Professional Fees	
Audit	7,500
Engineering	35,787
Legal	46,103
	89,390_
Contracted Services	
Accounting	14,400
Tax Appraisal/Collection	4,395
	18,795
Utilities	
Solid Waste Disposal	50,794
	50,794
Administrative	
Insurance	2,708
Legal Notices	897
Miscellaneous	
	3,605
Maintenance	
Amenity Center Maintenance	22,613
Amenity Center Operations	86,859
	109,472
Capital Expenditures	
TOTAL EXPENDITURES	\$ 272,056

Number of persons employed by the District: -0-

### TEMPORARY INVESTMENTS SEPTEMBER 30, 2022

Funds	Identification or Certificate Number	Interest Rate	Maturity Date	Balance at End of Year	Accrued Interest Receivable at End of Year
GENERAL FUND State Investment Pool Total	***0002	2.85%	N/A	502,473 502,473	
DEBT SERVICE FUND State Investment Pool Total	***0001	2.85%	N/A	\$ 176,017 176,017	<u>\$</u>
TOTALS - ALL FUNDS				\$ 678,490	\$ -



### ANALYSIS OF TAXES LEVIED AND RECEIVABLE YEAR ENDED SEPTEMBER 30, 2022

	MAINTENANCETAXES	DEBT SERVICE TAXES
Taxes Receivable, Beginning of Year	\$ 2,692	\$ 5,067
2021 Original Levy Adjustments Add: Penalty & Interest	214,800 (2,170) 3,167	454,871 (4,595) 2,820
Total to be accounted for Tax collections:	218,489	458,163
Current year Prior years Total Collections	215,417 3,072 218,489	452,511 5,652 458,163
Taxes Receivable, End of Year	\$ -	\$ -
2021 2020 2019	2018	2017
Property Valuations:  Land & Improvements 252,706,306 217,593,475 207,053,476	0 203,075,961	196,617,202
Tax Rates Per \$100 Valuation:		
Debt Service tax rates \$ 0.1800 \$ 0.2000 \$ 0.2000 Maintenance tax rates 0.0850 0.0950 0.1200		\$ 0.2000 0.1700
Totals \$ 0.2650 \$ 0.3200 \$ 0.350		\$ 0.3895
Original Tax Levy \$ 669,672 \$ 641,901 \$ 662,57	1 \$ 710,766	\$ 727,484

### GENERAL LONG TERM DEBT SERVICE REQUIREMENTS-BY YEARS YEAR ENDED SEPTEMBER 30, 2022

ANNUAL R	EOUIR	EMENTS	FOR	SERIES	2016
----------	-------	--------	-----	--------	------

	ATTICAL REQUIREMENTS FOR SERIES 2010								
DUE	Т	OTAL	7	ΓΟΤΑL		FOTAL			
<b>DURING FISCAL</b>	PRI	PRINCIPAL DUE		TEREST	PRINCIPAL AND INTEREST DUE				
YEARS ENDING				DUE					
2023	\$	35,000	\$	24,588	\$	59,588			
2024		35,000		23,888		58,888			
2025		35,000		23,144		58,144			
2026		40,000		22,400		62,400			
2027		40,000		21,550		61,550			
2028		40,000		20,550		60,550			
2029		45,000		19,550		64,550			
2030		45,000		18,425		63,425			
2031		50,000		17,075		67,075			
2032		50,000		15,575		65,575			
2033		55,000		14,075		69,075			
2034		55,000		12,425		67,425			
2035		60,000		10,775		70,775			
2036		65,000		8,975		73,975			
2037		65,000		7,025		72,025			
2038	galden. Tal	70,000		5,075		75,075			
2039		75,000		2,625		77,625			
2040	No.	-		-		•			
	\$	860,000	\$	267,720	\$	1,127,720			

### GENERAL LONG TERM DEBT SERVICE REQUIREMENTS-BY YEARS YEAR ENDED SEPTEMBER 30, 2022

ANNUAL REQUIREMENTS FOR SERIES 2016R

		AMINOALIM	EQUITERIES FOR DERIES SOLOR						
DUE	***************************************	TOTAL		TOTAL	TOTAL				
<b>DURING FISCAL</b>	F	PRINCIPAL	I	NTEREST	PRINCIPAL AND INTEREST DUE				
YEARS ENDING		DUE		DUE					
2023	\$	225,000	\$	105,750	\$	330,750			
2024		235,000		99,000		334,000			
2025		255,000		89,600		344,600			
2026		265,000		79,400		344,400			
2027		275,000		68,800		343,800			
2028		290,000		57,800		347,800			
2029		315,000		46,200		361,200			
2030		330,000		33,600		363,600			
2031		105,000		20,400		125,400			
2032		105,000		17,250		122,250			
2033		110,000		14,109		124,109			
2034		115,000		10,800		125,800			
2035		120,000		7,350		127,350			
2036		125,000		3,750		128,750			
2037				-		_			
2038		-		-		-			
2039	19	-		-		-			
2040	•	-		-		-			
	\$	2,870,000	\$	653,809	\$	3,523,809			

### GENERAL LONG TERM DEBT SERVICE REQUIREMENTS-BY YEARS YEAR ENDED SEPTEMBER 30, 2022

ANNUAL RE	<b>QUIREMENTS</b>	FOR	SERIES	2018
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	ANNUAL REQUIREMENTS FOR SERIES 2016							
DUE	TOTAL			TOTAL		TOTAL		
DURING FISCAL	PRI	NCIPAL	IN	TEREST	PRINCIPAL AND			
YEARS ENDING	]	DUE		DUE	INTEREST DUE			
2023	\$	45,000	\$	30,281	\$	75,281		
2024		50,000		28,931		78,931		
2025		50,000		27,431		77,431		
2026		50,000		25,931		75,931		
2027		55,000		24,431		79,431		
2028		55,000		22,781		77,781		
2029		60,000		21,131		81,131		
2030		60,000		19,331		79,331		
2031		60,000		17,531		77,531		
2032		65,000		15,731		80,731		
2033		65,000		13,781		78,781		
2034		70,000		11,831		81,831		
2035		70,000		9,731		79,731		
2036	-	75,000		7,544		82,544		
2037		80,000		5,200		85,200		
2038	gag New New York	80,000		2,600		82,600		
2039	i e	_		_		-		
2040	,	-		-		_		
	\$ ***	990,000	\$	284,197	\$	1,274,197		

### GENERAL LONG TERM DEBT SERVICE REQUIREMENTS-BY YEARS YEAR ENDED SEPTEMBER 30, 2022

ANNUAL REQUIREMENTS FOR ALL SERIES

		ANNUAL REQUIREMENTS FOR ALL SERIES						
DUE	T	TOTAL		TOTAL	r	TOTAL		
<b>DURING FISCAL</b>	PRI	NCIPAL	I	NTEREST	PRINCIPAL AND			
YEARS ENDING		DUE	DUE		INTE	EREST DUE		
2023	\$	305,000	\$	160,619	\$	465,619		
2024		320,000		151,819		471,819		
2025		340,000		140,175		480,175		
2026		355,000		127,731		482,731		
2027		370,000		114,781		484,781		
2028		385,000		101,131		486,131		
2029		420,000		86,881		506,881		
2030		435,000		71,356		506,356		
2031		215,000	:	55,006		270,006		
2032		220,000	•	48,556		268,556		
2033		230,000		41,965		271,965		
2034		240,000		35,056		275,056		
2035		250,000		27,856		277,856		
2036		265,000		20,269		285,269		
2037		145,000		12,225		157,225		
2038		150,000		7,675		157,675		
2039	, and the second second	75,000		2,625		77,625		
2040	A. Company	-		_		-		
	\$	4,720,000	\$	1,205,726	\$	5,925,726		

#### ANALYSIS OF CHANGES IN GENERAL LONG TERM DEBT YEAR ENDED SEPTEMBER 30, 2022

		SERIES 2011		SERIES 2016		SERIES 2016R		SERIES 2018		ΓΟΤΑLS
Interest Rate	4.2	25 - 5.00%	2.0	00 - 3.50%	2.	2.00 - 3.00%		00 - 3.25%		
Dates Interest Payable	, r.	2/1:8/1	2/1 : 8/1		2/1:8/1			2/1:8/1		
Maturity Dates	8/1/1	14 to 8/1/36	8/1/	18 to 8/1/39	8/1	/17 to 8/1/36	8/1.	/17 to 8/1/38		
Bonds Outstanding-Beginning	\$	-	\$	890,000	\$	3,080,000	\$	1,035,000	\$	5,005,000
Bonds Sold During the Year Bonds Defeased During the Year Retirements During the Year	·	- - -		(30,000)		(210,000)		(45,000)		(285,000)
Bonds Outstanding-Ending	\$	-	\$	860,000	\$	2,870,000	\$	990,000	\$	4,720,000
Interest Paid During the Year Accrued Interest Purchased	\$	- -	\$	25,188	\$	112,050	\$	31,406	\$	168,644 -
Change in Accrued Interest Payable		<u>-</u>		(100)		(1,050)		(188)		(1,338)
Interest on Financial Statements	\$	**************************************		25,088		111,000		31,218	\$	167,306
Paying Agent	W	ells Fargo		BOKF	:	BOKF		BOKF		
Bond Authority:	T:	ax Bonds	_Oti	her Bonds	_0	other Bonds I	Refur	nding Bonds		
Amount Authorized By Voters	\$	7,920,000	\$	_	\$	_	\$	_		
Amount Issued		6,490,000	\$	=	\$	-	\$	3,570,000		
Remaining To Be Issued		1,430,000	\$	-	\$	-	\$	, , , <u>-</u>		
Debt Service Fund Cash and Tempor	rary In	vestments b	alance	es as of Sept	emb	er 30, 2022			\$	233,800
Average annual debt service paymen	t (prin	ncipal & inte	rest) f	for remaining	g teri	m of all debt				348,572

### COMPARATIVE SCHEDULE OF REVENUES AND EXPENDITURES - GENERAL FUND FOR THE FIVE YEARS ENDED SEPTEMBER 30, 2022

	AMOUNTS						
	2022	2021	2020	2019	2018		
REVENUES							
Property Taxes	\$ 218,489	\$ 214,743	\$ 247,567	\$ 303,226	\$ 335,297		
Reimbursements	1,961	18,824	-	-	-		
Interest	3,433	1,700	6,942	11,335_	3,771		
TOTAL REVENUES	223,883	235,267	254,509	314,561	339,068		
EXPENDITURES							
Current:							
Solid Waste Disposal	50,794	47,335	44,760	43,384	39,797		
Repairs and Maintenance	22,613	19,633	22,777	-	30,094		
Amenity Center Operations	86,859	95,996	61,693	33,277	_		
Accounting Fees	14,400	14,400	14,400	14,400	14,400		
Audit Fees	7,500	7,500	7,500	7,500	7,500		
Engineering Fees	35,787	26,133	61,606	17,018	37,478		
Legal Fees	46,103	50,990	74,983	62,880	75,765		
Tax Assessor/Collector	4,395	2,983	3,313	3,537	3,798		
Director Salaries and Tax	-	-		-	-		
Insurance	2,708	2,669	3,022	2,566	1,902		
Legal Notices	897	285	985	628	314		
Bank Charges and Other	-	-	-	18	-		
Fiscal Agent Fees	-	<u></u>	••	_	-		
Capital Expenditures		238,840	_	*	•		
TOTAL EXPENDITURES	272,056	506,764	295,039	185,208	211,048		
OTHER FINANCING SOURCES (US	SES)						
Other		31,368		•	61,000		
Excess (Deficit) of							
Revenues over Expenditures	\$ (48,173)	\$ (240,129)	\$ (40,530)	\$ 129,353	\$ 189,020		

### COMPARATIVE SCHEDULE OF REVENUES AND EXPENDITURES - GENERAL FUND FOR THE FIVE YEARS ENDED SEPTEMBER 30, 2022

PFR	CENT	$\mathbf{OF}$	FVE	NIIFC
1 1 1 1 1			V I	

		1 BRCE	MI OF KEYER	UES		
<u> </u>	2022	2021	2020	2019	2018	
REVENUES						
Property Taxes	98%	91%	97%	96%	99%	
Reimbursements	1%	8%	0%	0%	0%	
Interest	2%	1%	3%	4%	1%	
TOTAL REVENUES	100%	100%	100%	100%	100%	
<u>EXPENDITURES</u>						
Current:						
Solid Waste Disposal	23%	20%	18%	14%	12%	
Repairs and Maintenance	10%	8%	9%	0%	9%	
Amenity Center Operations	39%	41%	24%	11%	0%	
Accounting Fees	6%	6%	6%	5%	4%	
Audit Fees	3%	3%	3%	2%	2%	
Engineering Fees	16%	11%	24%	5%	11%	
Legal Fees	21%	22%	29%	20%	22%	
Tax Assessor/Collector	2%	1%	1%	1%	1%	
Director Salaries and Tax	0%	0%	0%	0%	0%	
Insurance	1%	1%	1%	1%	1%	
Legal Notices	0%	0%	0%	0%	0%	
Bank Charges and Other	0%	0%	0%	0%	0%	
Fiscal Agent Fees	0%	0%	0%	0%	0%	
Capital Expenditures	0%	102%	0%	0%	0%	
TOTAL EXPENDITURES	122%	215%	116%	59%	62%	
OTHER FINANCING SOURCES (USES	()					
Other	0%	13%	0%	0%	18%	
Excess (Deficit) of						
Revenues over Expenditures	-22%	-102%	-16%	41%	56%	

### COMPARATIVE SCHEDULE OF REVENUES AND EXPENDITURES - DEBT SERVICE FUND FOR THE FIVE YEARS ENDED SEPTEMBER 30, 2022

			AMOUNTS		
	2022	2021	2020	2019	2018
<u>REVENUES</u>					
Property Taxes	\$ 458,163	\$ 443,633	\$ 414,456	\$ 403,748	\$ 393,626
Interest	1,679	884	3,540	5,742	2,880
TOTAL REVENUES	459,842	444,517	417,996	409,490	396,506
EXPENDITURES					
Debt Service					
Fiscal Agent Fees	1,326	1,854	1,749	2,267	1,317
Interest	168,644	175,694	182,444	188,681	177,491
Principal	285,000	275,000	270,000	250,000	270,000
TOTAL EXPENDITURES	454,970	452,548	454,193	440,948	448,808
OTHER FINANCING SOURCES					
Bond Proceeds	-	-		-	_
Excess (Deficit) of					
Revenues over Expenditures	\$ 4,872	\$ (8,031)	\$ (36,197)	\$ (31,458)	\$ (52,302)

### COMPARATIVE SCHEDULE OF REVENUES AND EXPENDITURES - DEBT SERVICE FUND FOR THE FIVE YEARS ENDED SEPTEMBER 30, 2022

DEB	CENT	OF REVENUES

	TERCENT OF REVERUES								
_	2022	2021	2020	2019	2018				
REVENUES									
Property Taxes	100%	100%	99%	99%	99%				
Interest	0%	0%	1%	1%	1%				
TOTAL REVENUES	100%	100%	100%	100%	100%				
EXPENDITURES									
Debt Service									
Fiscal Agent Fees	0%	0%	0%	1%	0%				
Interest	37%	40%	44%	46%	45%				
Principal	62%	62%	65%	61%	68%				
TOTAL EXPENDITURES	99%	102%	109%	108%	113%				
OTHER FINANCING SOURCES									
Bond Proceeds	0%	0%	0%	0%	0%				
Excess (Deficit) of									
Revenues over Expenditures	1%	-2%	-9%	-8%	-13%				

#### BOARD MEMBERS, KEY PERSONNEL, AND CONSULTANTS YEAR ENDED SEPTEMBER 30, 2022

DISTRICT MAILING ADDRESS: c/o Lloyd Gosselink Rochelle & Townsend 816 Congress Av #1900 Austin TX 78701

DISTRICT BUSINESS TELEPHONE NUMBER: (512) 322-5800

LIMITS ON FEES OF OFFICE THAT A DIRECTOR MAY RECEIVE DURING A FISCAL YEAR: \$7,200

NAMES	TERM OF OFFICE	ALARY E 9/30/22	MBURSEMENTS FYE 9/30/22	TITLE AT YEAR END
<u>DIRECTORS</u>				
James Koerner	Elected 5/22-5/26	\$ -	\$ -	President
Ronald Ubertini	Elected 5/20-5/24	-	-	Vice-President
Kim Clifford	Elected 5/20-5/24	-	-	Secretary
Peter Golde	Elected 5/22-5/26	-	-	Asst Sec
Keri Parker	Appointed 5/22-5/26	vio	-	Asst Sec
Payments to Retiring Directors		_		
		\$ _	\$ _	
<b>CONSULTANTS</b>				
Lloyd Gosselink Rochelle & T	Townsend, PC	\$ 46,103	\$ -	Attorney
Quiddity		\$ 35,787	\$ -	Engineer
West Davis and Company, LL	P	\$ 7,500	\$ -	Auditor
Montoya & Monzingo		\$ 14,400	\$ -	Accountant
Travis County Tax Collector		\$ 4,395	\$ -	Tax Collector

#### OTHER INFORMATION

### PRINCIPAL TAXPAYERS SEPTEMBER 30, 2022

Taxpayer	 Taxable Assessed Value	% of 2022 Certified Taxable Assessed Value			
Individual	\$ 3,233,531	1.01%			
Individual	3,192,119	1.00%			
Individual	3,008,056	0.94%			
Individual	2,974,438	0.93%			
Individual	2,906,000	0.91%			
Individual	2,852,308	0.89%			
Individual	2,813,847	0.88%			
Individual	2,742,881	0.86%			
Individual	2,721,916	0.85%			
Individual	2,705,916	0.85%			
Total	\$ 29,151,012	9.10%			

### ASSESSED VALUE BY CLASSIFICATION SEPTEMBER 30, 2022

Type of Property		2022 Taxable Assessed Value
Land	\$	68,186,711
Improvements	"	352,623,827
Personal Property		92,579
Less: Homestead Cap		(98,965,459)
Total Assessed Valuation	***************************************	321,937,658
Exemptions		1,756,547
Total Taxable Appraised Valuation	\$	320,181,111

### MINUTES OF MEETING OF BOARD OF DIRECTORS

THE STATE OF TEXAS	§
COUNTY OF TRAVIS	§ §
DELUCEDE MINIODAL LITTUTT DIGERION	§
BELVEDERE MUNICIPAL UTILITY DISTRICT	8

On September 20, 2022, the Board of Directors ("Board") of Belvedere Municipal Utility District (the "District") held a regular meeting within the boundaries of the District at the Belvedere Amenity Center, 17400 Flagler Drive, Austin, Texas. A copy of the notice of meeting along with associated certificates of posting are attached hereto as **Exhibit "A"**.

The roll was called of the members of the Board, to-wit:

James Koerner	President
Kim Clifford	Secretary
Ronald Ubertini	Vice President
Peter Golde	Assistant Secretary
Keri Parker	Assistant Secretary

All of the Directors were present, thus constituting a quorum of the Board. All Directors who attended voted on all matters that came before the Board. Also attending were Cathy Mitchell and Odalys Johnson with Quiddity; Jeff Monzingo, CPA with Montoya & Monzingo, LLP; Frankie Bates with Texas Disposal Systems; David Klein, attorney, and Fred Castro, Paralegal with Lloyd Gosselink Rochelle & Townsend, P.C. ("Lloyd Gosselink"); Mark Greene with the Belvedere Homeowners Association ("HOA"); and Vito Sciaraffia, a District resident.

- 1. <u>Call meeting to order and establish a quorum</u>. Director Koerner called the meeting to order at 6:00 p.m. He announced that a quorum of the Board was in attendance.
- 2. Conduct a public hearing at 6:00 p.m., regarding a proposal to set a 2022 tax rate. At 6:01 p.m., Director Clifford moved to open the public hearing on a proposal to set a tax rate. Director Ubertini seconded the motion and the motion passed unanimously, 5-0. The Board then commenced the public hearing. No member of the public was present to speak on this item, so the Board then moved on to Items 3 and 4 while leaving the public hearing open so that any late-arriving member of the public would have the opportunity to participate in the hearing.

After completing Items 3 and 4, the Board returned to this Item. No other member of the public arrived or provided comments regarding the proposed 2022 tax rate. At 6:12 p.m., Director Ubertini moved to close the public hearing on a proposal to set a tax rate. Director Clifford seconded the motion and the motion passed unanimously, 5-0. The Board then moved on to Item 5.

3. Receive public comments. No members of the public provided public comments.

- 4. <u>Discuss, consider, and take action as necessary concerning the adoption of a budget for the 2022-2023 fiscal year.</u> Director Koerner introduced this Item. Mr. Monzingo presented a proposed budget for the 2022-2023 fiscal year to the Board. A copy of such proposed budget is attached hereto as **Exhibit B**. Mr. Monzingo noted that the proposed budget was based upon the District Financial Advisor's recommendation that the Board set its debt service tax rate at \$0.1450 per \$100 of assessed valuation and its operations and maintenance tax rate at \$0.0775 per \$100 of assessed valuation. He noted that the assessed valuations were based upon the District's Certification of 2022 Appraised Values from the Travis Central Appraisal District. Director Clifford moved to approve the District's operating budget for the period of October 1, 2022, through September 30, 2023, as presented. Director Ubertini seconded the motion and the motion passed unanimously, 5-0. The Board then returned to Item 2.
- 5. <u>Discuss, consider, and take action as necessary to adopt a 2022 tax rate</u>. After returning to and completing Item 2, Director Koerner then introduced this Item. Director Ubertini moved to adopt (1) a debt service tax rate of \$0.1450 per one hundred dollars (\$100) of assessed valuation, and a maintenance and operations tax rate of \$0.0775 per one hundred dollars (\$100) of assessed valuation, for a total 2022 tax rate of \$0.2225 per one hundred dollars (\$100) of assessed valuation, and (2) the Order Setting 2022 Debt Service Tax Rate and Operations and Maintenance Tax Rate, attached hereto as **Exhibit C.** Director Ubertini seconded the motion and the motion passed unanimously, 5-0. Director Koerner stated this would be the eighth consecutive year that the Board had reduced the District's overall tax rate.
- 6. <u>Discuss, consider, and take action as necessary concerning amendments to the budget for 2021-2022 fiscal year.</u> Director Koerner introduced this Item. Mr. Monzingo proposed that the Board amend the District's current budget by (1) increasing the budgeted revenue amount for the Maintenance Taxes and Interest Income, and (2) amending budgeted amounts for two expenditure categories: Solid Waste Disposal, Engineering Fees Drainage, and Trail Maintenance. Director Clifford moved to adopt the resolution amending the District's 2021-2022 budget, as proposed by Mr. Monzingo, a copy of which is attached hereto as <u>Exhibit D</u>. Director Ubertini seconded the motion and the motion passed unanimously, 5-0.
- 7. Discuss, consider, and take action as necessary to adopt an amended District Information Form and Notice to Purchaser. Director Koerner introduced this Item. Mr. Klein presented the proposed amended District Information Form and Notice to Purchaser, a copy of which is attached hereto as **Exhibit E**. He stated that the District needs to update its Form and Notice and record it in the real property records of Travis County when the District's information reflected in the prior version of the Form changes; and he added that the newly approved 2022 tax rate necessitates updating and rerecording the Form and Notice. Director Clifford moved to adopt and amended District Information Form and Notice to Purchaser, as presented and requested that (i) the updated District Information Form and Notice to Purchaser be posted to the District's website and (ii) several other documents on the website that were identified as missing or in need of updating be addressed. Director Ubertini seconded the motion and the motion passed unanimously, 5-0.
- 8. <u>Discuss, consider, and take action to approve the minutes of June 21, 2022, and August 16, 2022 regular meetings</u>. Director Koerner introduced this item. Director Golde moved to

approve the minutes of the June 21, 2022 and August 16, 2022 regular meetings, as presented, and provided as **Exhibit F**. Director Ubertini seconded the motion and the motion passed unanimously, 5-0.

- 9. <u>Discuss, consider, and take action as necessary concerning report from the District's Bookkeeper and Finance Committee, including:</u>
  - a. Payment and ratification of invoices;
  - b. Coordination on bookkeeping matters;
  - c. TexPool investments; and
  - d. Reimbursement of costs to Belvedere HOA pursuant to the Joint Use and Maintenance Agreement.

Director Koerner introduced this Item. Mr. Monzingo presented his Bookkeeper's Report which consisted of a list of invoices, and other bookkeeping matters, attached hereto as **Exhibit G**. He stated that the Bookkeeper's Report included a list of invoices paid since the Board's last meeting and requested that the Board ratify the payment of these invoices. Mr. Monzingo stated that he had met with the District's Finance Subcommittee to review his report and list of invoices and stood for questions. Director Ubertini moved to ratify the payment of the invoices paid since the Board's last meeting on August 16, 2022, to approve the payment of current invoices, and transfers, as noted on **Exhibit G**. Director Clifford seconded the motion and the motion passed unanimously, 5-0.

Next, Director Koerner stated that the Board had created a reserve fund of \$480,000 to fund the District's operations in the event District revenues fell short of projections. Mr. Monzingo stated that the District's Audit Report refers to this amount as the District's Assigned Fund Balance. Director Koerner added that the District's Finance Subcommittee (the "Subcommittee") considered this issue and that it wished to discuss the issue with the full Board. He added that it was the Subcommittee's view that such a dedicated reserve fund could become cumbersome should the District need to reallocate funds from this reserve account to pay for expenditures that are not related to operations. Director Ubertini stated that the Board's purpose for creating a reserve fund was to establish an account that could fund the District's operations in the event that District revenues fell short. He stated that it was his view that as long as the District had sufficient unassigned cash reserves available, such reserves could be accessed to offset any revenue shortfalls or unexpected expenditures. Director Ubertini stated that the Belvedere Reserve Study prepared by Reserve Advisors, presented to the Board at its prior regular meeting, recommended that the District set aside \$57,000.00 for future repairs and improvements to the District's recreational facilities. He stated that the District's Finance Subcommittee questioned whether this \$57,000.00 should be included in the District's existing reserve fund balance or whether the District should establish a separate reserve account for future repairs and improvements to the District's recreational facilities. Director Ubertini said that the Subcommittee ultimately recommended that the Board remove any specific designation on the use of these reserve funds with the understanding that a specific reserve fund balance be maintained on an annual basis. Director Clifford expressed concern with this approach. noting that future Boards might be confused about how the reserve fund is to be used. She added that the designation of assigned bookkeeping entries to create formal separate

accounts for reserves might be more appropriate. Discussion ensued. Director Ubertini moved to remove the existing fixed reserve fund of \$480,000 and establish an annual reserve fund target range of an amount equal to 1 to 2 years' worth of operating expenses and an additional \$57,000.00 that could be used for future repairs and improvements to the District's recreational facilities, as outlined in the Belvedere Reserve Study. Director Parker seconded the motion and the motion passed, 4-1, with Directors Koerner, Golde, Ubertini, and Parker voting in favor and Director Clifford voting against.

- Discuss, consider, and take action regarding First Amendment to Contract for Municipal Solid Waste Collection and Disposal Services between the District and TDS. Director Koerner introduced this item. He stated that Mr. Bates with TDS was present to address questions related to the District's negotiation of the First Amendment to Contract for Municipal Solid Waste Collection and Disposal Services with TDS. Discussion ensued, noting that the amendments contemplated the following changes: the implementation of fees for the disposal of mattresses and box springs and the acceleration of the 1/1/24 residential rates to 1/1/23 in consideration for extending the contract term for an additional 5 years. A copy of the First Amendment that was presented to the Board is provided as **Exhibit H**. Director Clifford moved to approve the First Amendment to Contract for Municipal Solid Waste Collection and Disposal Services with TDS, as presented. Director Parker seconded the motion and the motion passed unanimously, 5-0.
- 11. Discuss, consider, and take action regarding the report from the District liaison to the HOA and from the HOA liaison to the District. Mr. Koerner stated that he wished to express his appreciation for the work done by representatives of the HOA and Megan Maedgen in negotiating an amended agreement with Sunscape for landscape maintenance. Mr. Greene updated the Board on the following matters: (1) drainage issues along Flagler, Springdale Ridge Cove, Lakewood Ridge Cove and a missing culvert at a lot on Verde Mesa; (2) a cost estimate for professional inspection of the playscape of \$1,700.00 as requested by Director Clifford; and (3) the status of mulch replacement within common areas. Director Koerner requested that Mr. Greene provide the Board with a copy of the proposal obtained by the HOA for inspection of the playscape for consideration at the Board's next meeting. Mr. Greene stated that the HOA would postpone the inspection of the playscape until action is taken by the Board.
- 12. <u>Discuss, consider, and take action regarding the improvement, maintenance, and repair of existing and future assets owned or maintained by the District, including:</u>
  - a. Report from the District's Engineer;
  - b. Amenity Center Lot project, including warranty claim;
  - c. Drainage Facilities; and
  - d. Trail maintenance.

Ms. Mitchell made her presentation to the Board, attached hereto as **Exhibit I**. She stated she had observed the effects of a recent rainfall event on the requested modifications to the berm/ditch at Flagler Drive, and she suggested that additional investigation into improvement alternatives was in order. Ms. Mitchell added that a proposal for the Board's consideration would be prepared regarding this issue, and she initially estimated that this

work could be approximately \$10,000.00. Director Clifford moved to authorize Ms. Mitchell to prepare drainage improvement alternatives as referenced above in an amount not to exceed \$10,000.00. Director Golde seconded the motion and the motion passed unanimously, 5-0.

Director Clifford advised the Board that the temporary culvert that had been authorized at 18225 Flagler ad been removed and remediation of the vegetation had been initiated. Director Clifford stated that currently she was the sole member of the District's Engineering Subcommittee and suggested that at least one additional individual be appointed to this Subcommittee. Mr. Sciaraffia volunteered to serve. It was the consensus of the Board that Mr. Sciaraffia should join the District's Engineering Subcommittee.

Next, Ms. Mitchell stated that the HOA had identified areas of cracking on the masonry sections of the trails and that those areas needed repair. She noted that she would ask Sunscape to provide a proposal for this work and provide that to the Board for consideration at a future meeting. Last, Ms. Mitchell reported that, in accordance with the terms of its contract with the District, her firm intended starting October 1, 2022, to implement, an increase in rates for engineering services to the District, as reflected in Exhibit J attached hereto.

- 13. <u>Discuss, consider, and take action regarding the annual review of the District's Investment Policy.</u> Director Koerner introduced this item. Mr. Klein presented this Item and provided the Board with the resolution attached hereto as <u>Exhibit K</u>. Mr. Klein noted that the District is required to review the District's Investment Policy on an annual basis and to take action either to make amendments or memorialize that no amendments are necessary. He noted that he and Mr. Monzingo, the District's Investment Officer, had both reviewed the District's Investment Policy in light of applicable laws and had no recommended changes. He added that the proposed resolution memorializes that no edits to the Investment Policy were necessary. Director Clifford moved to approve the resolution making no amendments to the District's Investment Policy, as presented. Director Golde seconded the motion and the motion passed unanimously, 5-0.
- 14. <u>Discuss, consider, and take action on the future meeting schedule</u>. The Board discussed that the next meeting would be on January 17, 2023.
- 15. <u>Adjournment</u>. Director Clifford moved to adjourn the meeting. Director Parker seconded the motion and the motion passed unanimously, 5-0. The meeting adjourned at 7:47 p.m. until further call.

PASSED, APPROVED	, AND ADOPTED this 1	l 7 <sup>th</sup> day of January 2023
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[DISTRICT SEAL]	Kim Clifford, Secretary

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### **Belvedere MUD Board Meeting**

January 17, 2023

**Financial Information** 

### **Schedule of Cash Activity**

#### BELVEDERE MUD SCHEDULE OF CASH ACTIVITY GENERAL FUND MEETING DATE: JANUARY 17, 2023

#### GENERAL FUND CHECKING ACCOUNT BALANCE

\$ 274,108.65

Re	ven	ue:
		ч.,

Cash Balance Before Expenditures   \$ 220,24	Deposit Date	e	Description	MANAGEM PARTIES AND		Amount	,	
Total Deposits:   S   S					\$	-		
10/4/2022	Evnonces neld a			Total Deposits:			\$	
101/41/2022   1396				A 11 0 1 0 1				
10/14/2022   1396								
101/41/2022		,						
10/18/2022				•				
11/2/2022		,		·				
11/2/2022			· · · · ·					
1/46/2022						20,582.41		
11/8/2022						1,035.00		
11/13/2022   EFT   AT & T   Amenity Center Operations   \$10.55						3,952.93		
11/16/2022			· · · · · · · · · · · · · · · · · · ·		٠ \$	106.54		
11/28/2022   EFT   PEC   Amenity Center Operations   3 23.83   12/8/2022   1402   Sunscape Landscaping   Trail Maintenance   \$ 11,628.47   142/8/2022   EFT   Spectrum Business   Amenity Center Operations   \$ 136.55   12/14/2022   EFT   AT & T   Amenity Center Operations   \$ 136.55   12/14/2022   EFT   AT & T   Amenity Center Operations   \$ 136.55   12/14/2022   EFT   AT & T   Amenity Center Operations   \$ 240.65   12/23/2022   1403   Travis Central Appraisal   Appraisal Fees   \$ 754.29   1/13/2022   EFT   AT & T   Amenity Center Operations   \$ 136.55   12/123/2022   EFT   AT & T   Amenity Center Operations   \$ 136.55   13/13/2022   EFT   AT & T   Amenity Center Operations   \$ 136.55   13/13/2022   EFT   AT & T   Amenity Center Operations   \$ 136.55   13/13/2022   EFT   AT & T   Amenity Center Operations   \$ 136.55   13/13/2022   EFT   AT & T   Amenity Center Operations   \$ 136.55   13/13/2022   EFT   AT & T   Amenity Center Operations   \$ 136.55   13/13/2022   EFT   AT & T   Amenity Center Operations   \$ 136.55   13/13/2022   EFT   AT & T   Amenity Center Operations   \$ 136.55   13/13/2022   EFT   AT & T   Amenity Center Operations   \$ 136.55   13/13/2022   EFT   AT & T   Amenity Center Operations   \$ 136.55   13/13/2022   EFT   AT & T   Amenity Center Operations   \$ 136.55   13/13/2022   EFT   AT & T   Amenity Center Operations   \$ 136.00   13/13/2022   EFT   AT & T   Amenity Center Operations   \$ 136.00   13/13/2022   EFT   AT & T   Amenity Center Operations   \$ 136.00   13/13/2022			A Committee of the Comm		\$	136.55		
12/8/2022					\$	460.00		
12/8/2022   EFT   Spectrum Business   Amenity Center Operations   \$ 106.54   12/14/2022   EFT   AT & T   Amenity Center Operations   \$ 136.55   12/18/2022   EFT   PEC   Amenity Center Operations   \$ 240.65   12/23/2022   1403   Travis Central Appraisal   Appraisal Fees   \$ 754.29   1/13/2022   EFT   AT & T   Amenity Center Operations   \$ 136.55   1/13/2022   EFT   AT & T   Amenity Center Operations   \$ 136.55   1/13/2022   EFT   AT & T   Amenity Center Operations   \$ 136.55   1/13/2022   Travis Central Appraisal Fees   \$ 754.29   1/13/2022   Amenity Center Operations   \$ 136.55      Cash Balance Before Expenditures   \$ 220,24			_	Amenity Center Operations	\$	323.83		
12/14/2022				Trail Maintenance	\$	11,628.47		
12/14/2022         EFT AT & T Amenity Center Operations         \$ 136.55           12/18/2022         EFT PEC Amenity Center Operations         \$ 240.65           12/23/2022         1403 Travis Central Appraisal Appraisal Fees         \$ 754.29           1/13/2022         EFT AT & T Amenity Center Operations         \$ 136.55           Cash Balance Before Expenditures:           Cash Balance Before Expenditures           Amenity Center Operations           Amount								

#### DEBT SERVICE

CASH BALANCE	E - DEBT SERVICE FUND - MONEY MARK	ET			\$	57,916.94
	Transfer from Operating Checking	Property Taxes	\$	2,196.26		
	Transfer from Operating Checking	Property Taxes	\$	4,173.88		
	Transfer from Operating Checking	Property Taxes	\$	136,040.49		
Fr 175		Total Deposits:			\$	142,410.63
Expenditure						
Wire	BOK Financial	BELV316UT	\$	12,493.75		
Wire	BOK Financial	BELV916UTR	\$	53,075.00		
Wire	BOK Financial	BELV218UTP	\$	15,340.63		
			-		_\$	80,909.38
ENDING CASH B	ALANCE - DEBT SERVICE FUND - MONE	Y MARKET			\$	119,418.19
CASH BALANCE	- DEBT SERVICE - TEXPOOL				\$	176,455.85
TOTAL CASH BA	LANCE - DEBT SERVICE				\$	295,874.04

### **Budget vs Actual**

Belvedere Municipal Utility District
Statement of Revenues and Expenditures Budget vs. Actual
For the Year to Date Ended January 17, 2023
Unaudited

2023 Annual Variance Favorable (Unfavorable)	05 \$ (169,468) 00 (4,732)	(174,200)	00 27.778			00 8 600								2		207,560	33,860
2023 Annual Budget	\$ 244,405	250,405	55,000	40,000	7.500	14.400	30,000	85,000	23,000	4,000	6,000	200	100	2,000	500	267,700	\$ (17,295)
Year to Date Variance Favorable (Unfavorable)	13,836	13,604	278	8,839	ı	1	(5,399)	18,913	4,728	(932)	746	40	25	200	125	27,860	41,464
Year to Date Budget	61,101 \$	62,601	27,500	10,000	7,500	4,800	7,500	21,250	5,750	1,000	1,500	20	25	200	125	87,500	(24,899) \$
Year to Date Actual	\$ 74,937 \$	76,205	27,222	1,161	7,500	4,800	12,899	2,337	1,022	1,935	754	10	1	ì	**************************************	59,640	\$ 16,565 \$
Revenues	Maintenance Taxes Interest Income	Total Revenues .	Solid Waste Disposal	Legal rees	Audii rees	Accounting Fees	Lingineering Fees	Draining Center Operations	Ulainage and Irail Maintenance	Tox Appendix 1 and Other in	Rat Applaisal and Collection Fees	Other Food	Nource and	Mewspaper nouces		Total Expenditures	Projected Excess Revenue Over Expenditures

# Sunscape Landscaping Invoices pending review of contract



#### INVOICE

Invoice:

16417

Invoice Date:

11/01/2022

BILLTO

**PROPERTY ADDRESS** 

Austin, TX 78738

Belvedere Municipal Utility District C/O Montoya, Monzingo @ Blakeslee, LLP P.O. Box 2029 Pflugerville, TX 78691 Belvedere Municipal Utility District 17400 Flagler Drive

Phone:512-251-5668 x25

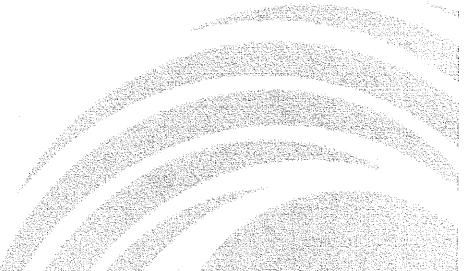
INVOICE	\ TERMS	ACCOUNT MANAGER
11/01/2022	Due on Receipt	Kirk Knussmann
DESCRIPTION		PRICE
#23747 - Trail Maintenance C	ontract November 2022	\$4,030.92

Subtotal: \$4,030.92

Sales Tax (.00%) \$0.00 INVOICE TOTAL: \$4,030.92

Pay This Amount:

\$4,030.92



Please use the new remittance address listed below when submitting payment:

Sunscape Landscaping • PO Box 423 • Pflugerville, TX 78660



#### INVOICE

Invoice:

16181

Invoice Date:

12/01/2022

BILL TO

Belvedere Municipal Utility District

C/O Montoya,Monzingo @ Blakeslee, LLP P.O. Box 2029 Pflugerville, TX 78691

Phone:512-251-5668 x25

**PROPERTY ADDRESS** 

Belvedere Municipal Utility District 17400 Flagler Drive Austin, TX 78738

INVOICE		TERMS	ACCOUNT MANAGER
12/01/2022		Due on Receipt	Kirk Knussmann
DESCRIPTION			PRICE
#23747 - Trail N	Maintenance Contrac		\$4 030 92

Subtotal: \$4,030.92

Sales Tax (.00%) \$0.00
INVOICE TOTAL: \$4,030.92
Pay This Amount: \$4,030.92



Please use the new remittance address listed below when submitting payment:

Sunscape Landscaping • PO Box 423 • Pflugerville, TX 78660

## **ABC Bank Statements**

TexPool Statements (Jeff will bring to meeting)



Drawer 9 Wolfforth, Texas 79382-0009

#### www.theabcbank.com

3455492

Belvedere Municipal Utility District General Funds PO Box 2029 Pflugerville TX 78691 Date 12/30/22 Page 1 Primary Account XXXXXXXXXXXX4251

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st Please help us keep your contact information updated. In the event of fraud or other related issues, it is important for us to be able to contact you. st

#### Checking Account

Account Title: Belvedere Municipal Utility District
General Funds

Business Checking Publi	c Funds	Enclosures/Images	3
Account Number	xxxxxxxxxxxx4251	Statement Dates 12/01/22 thru	
Previous Balance	18,182.67	Days in the Statement Period	31
17 Deposits/Credits	220,375.11	Tiretage adager ==	78,147.46
6 Checks/Debits	5,931.67	Average Collected	78,147.46
Service Charge Amount	.00		
Interest Paid	.00	,	
Current Balance	232,626.11 🙌	•	

*	Deposits a	ind Other Cre	dits	
0	Date	Description		Amount
0 5	12/05	PPD	F746000192	4,366.08
<b>ч</b>	•	CONS PAY	PT CLEARING	
	12/06	PPD	F746000192	3,311.22
40008980303		CONS PAY	PT CLEARING	
-	12/08	PPD	F746000192	11,071.65
∞		CONS PAY	PT CLEARING	F03.05
9	12/09	PPD	F746000192	593.86
∞		CONS PAY	PT CLEARING	4 574 00
2	12/12	PPD	F746000192	4,574.09
	42/42	CONS PAY	PT CLEARING	8,336.13
w <u> </u>	12/13	PPD	F746000192 PT CLEARING	6,550.13
o <u></u>	12/14	CONS PAY	F746000192	1,496.86
۰==	12/14	PPD CONS PAY	PT CLEARING	1,430.00
0 =====================================	12/15	PPD	F746000192	4,886.17
*	12/13	CONS PAY	PT CLEARING	1,000.2.





Date 12/30/22 Page Date 12/30/22 Page 2 Primary Account XXXXXXXXXXX4251

Amount

460.00

Belvedere Municipal Utility District General Funds PO Box 2029 Pflugerville TX 78691

Business Checking Public Funds

XXXXXXXXXXXX4251 (Continued)

Deposits a	nd Other Cred	lits		
Date	Description	enementario del Colonia di Salada del 196	er reservices en arta les seus de la com-	Amount
12/15	Funds xfer	per Michele		11,628.00
12/16	Posey	F746000103		
12/10	PPD CONS PAY	F746000192		3,886.53
12/19	PPD PAY	PT CLEARING F746000192		703 73
12/13	CONS PAY	PT CLEARING		703.72
12/20	PPD	F746000192		14 731 00
12/20	CONS PAY	PT CLEARING		14,731.80
12/21	PPD	F746000192		3,393.03
	CONS PAY	PT CLEARING		3,393.03
12/27	PPD	F746000192		95,915.13
,	CONS PAY	PT CLEARING		55,515,15
12/28	PPD	F746000192		9,101.81
•	CONS PAY	PT CLEARING		J, 101.01
12/29	PPD	F746000192		21,462.91
	CONS PAY	PT CLEARING		,
12/30	PPD	F746000192		20,916.12
	CONS PAY	PT CLEARING		·
			Debits	
Date	Description		Denica	Amount
12/08	PPD	0000358635		106.54-
•	SPECTRUM	SPECTRUM		1.00.J4
12/15	PPD	9864031004		136.55-
12/19		ATT		
17/13		2740828412 Pedernales_Elec		240.65-
	3001549599	reuernares_ETEC	:	
	200124223			

Checks

Check No.

1401

Amount Date

1,035.00 12/27 3,952.93



Date

12/05 12/19

Check No.

1399

1400

Date 12/30/22 Page 3 Primary Account XXXXXXXXXXXX4251

Belvedere Municipal Utility District General Funds PO Box 2029 Pflugerville TX 78691

Business Checking Public Funds XXXXXXXXXXXX4251 (Continued)

Daily Balance	Information				Polence
Date 12/01 12/05 12/06 12/08	Balance 18,182.67 21,513.75	Date 12/13	Balance 49,294.16 50,791.02 67,168.64 71,055.17	12/21 12/27 12/28	Balance 85,690.14 181,145.27 190,247.08 211,709.99
12/09 12/12	36,383.94	12/19 12/20	67,565.31 82,297.11		232,626.11

End Of Statement

## Belvedere Municipal Utility District Reconciliation Detail Checking Account - ABC Bank, Period Ending 12/31/2022

Туре	Date	Num	Name	Clr	Amount	Balance
Beginning Balance						18,182.67
Cleared Trans						,
	l Payments - 6					
Check	10/31/2022	1400	Sunscape Landscap	Х	-3,952.93	-3,952.93
Check	11/14/2022	1399	Manuela's Cleaning	Х	-1,035.00	-4,987.93
Check	12/08/2022	EFT	Spectrum Business	Х	-106.54	-5,094.47
Check	12/14/2022	1401	Manuela's Cleaning	Х	-460.00	-5,554,47
Check	12/14/2022	EFT	AT&T	Χ	-136,55	-5,691,02
Check	12/18/2022	EFT	Pedernales Electric	Χ.	-240.65	-5,931.67
Total Checks	s and Payments				-5,931.67	-5,931.67
Deposits an	d Credits - 17 i	tems				
Deposit	12/05/2022			Х	4,366.08	4,366.08
Deposit	12/06/2022			X	3,311.22	7,677.30
Deposit	12/08/2022			X	11,071.65	18,748,95
Fransfer	12/08/2022			X	11,628.00	30,376.95
Deposit	12/09/2022			X	593.86	30,970.81
Deposit	12/12/2022			X	4,574.09	35,544.90
Deposit	12/13/2022			X	8,336.13	43,881.03
Deposit	12/14/2022			X	1,496.86	45,377.89
eposit	12/15/2022			X	4,886.17	50,264.06
)eposit	12/16/2022			X	3,886.53	54,150.59
Deposit	12/19/2022			X	703.72	54,854.31
Deposit	12/20/2022			X	14,731,80	69,586.11
)eposit	12/21/2022			X	3,393.03	72,979.14
)eposit	12/27/2022			X	95,915,13	168,894.27
eposit	12/28/2022			X	9,101.81	177,996.08
eposit	12/29/2022			X	21,462.91	199,458.99
eposit	12/30/2022			X	20,916.12	220,375.11
Total Deposits				^ -		
·					220,375.11	220,375.11
Total Cleared Tra	ansactions				214,443.44	214,443.44
leared Balance					214,443.44	232,626.11
Uncleared Trans			•			
	Payments - 3 Ite 11/18/2022	ems EFT	Podornoloo Electric		0.00	<b>.</b>
	12/08/2022	1402	Pedernales Electric		-245.56	-245,56
1,001	12/06/2022	· · •	Sunscape Landscap		-11,628.47	-11,874.03
neck	12/23/2022	1403	Travis Central Appra,		-754.29	-12,628.32
Total Checks a	and Payments				-12,628.32	-12,628.32
Total Uncleared T	ransactions			*******	-12,628.32	-12,628.32
egister Balance as of 1	12/31/2022				201,815.12	219,997.79
iding Balance					201,815.12	219,997.79



#### Drawer 9 Wolfforth, Texas 79382-0009

#### www.theabcbank.com

3454623

Belvedere Municipal Utility District Operating Money Market PO Box 2029 Pflugerville TX 78691 Date 12/30/22 Page 1 Primary Account XXXXXXXXXXXX5091

7

\* Please help us keep your contact information updated. In the event of fraud or other related issues, it is important for us to be able to contact you. \*

#### Checking Account

Account Title: Belvedere Municipal Utility District
Operating Money Market

Money Market Public Fun	d	Enclosures/Images	0
Account Number	XXXXXXXXXXXX5091	Statement Dates 12/01/22 thru	12/31/22
Previous Balance	5,285 <i>.</i> 96	Days in the Statement Period	31
1 Deposits/Credits	11,628.00	Average Ledger Balance	7,907.76
2 Checks/Debits	11,633.00	Average Collected	7,907.76
Service Charge Amount	,00	Interest Earned	6.42
Interest Paid	6.42	Annual Percentage Yield Earned	0.96%
Current Balance	5,287.38 <b>M</b>	2022 Interest Paid	712.27

Deposits and Other Credits

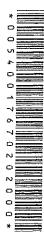
DateDescriptionAmount12/08Wire Transfer Credit11,628.0012/31Interest Deposit6.42

Debits

Date Description Amount 12/08 wire Transfer Fee 5.00-12/15 Funds xfer per Michele 11,628.00-Posey

Daily Balance Information

Date	Balance	Date	Balance
12/01	5,285.96	12/15	5,280.96
12/08	16,908.96	12/31	5,287.38





Date 12/30/22 Page 2 Primary Account XXXXXXXXXXXX5091

Belvedere Municipal Utility District Operating Money Market PO Box 2029 Pflugerville TX 78691

Money Market Public Fund

xxxxxxxxxxxx5091 (Continued)

#### INTEREST RATE SUMMARY

 Date
 Rate

 11/30
 0.900000%

 12/15
 1.000000%

 12/23
 1.100000%

End Of Statement



## Belvedere Municipal Utility District Reconciliation Detail Money Market - ABC Bank, Period Ending 12/31/2022

Туре	Date	Num	Name	Clr	Amount	Balance
Beginning Balance						5,285.96
Cleared Trans						
	d Payments - 2 i	tems				
Transfer	12/08/2022			X	-11,628.00	-11,628.00
Check	12/08/2022	EFT	American Bank of C	Χ _	-5.00	-11,633.00
Total Check	s and Payments				-11,633.00	-11,633.00
Deposits a	nd Credits - 2 ite	ems				
Transfer	12/08/2022			Χ	11,628.00	11,628.00
Deposit	12/31/2022			X	6.42	11,634.42
Total Depos	its and Credits	•		_	11,634.42	11,634.42
Total Cleared T	Fransactions			_	1.42	1.42
Cleared Balance				_	1.42	5,287.38
Register Balance as o	of 12/31/2022			-	1.42	5,287.38
Ending Balance					1.42	5,287.38



Drawer 9 Wolfforth, Texas 79382-0009

#### www.theabcbank.com

3454621

Belvedere Municipal Utility District Debt Services PO Box 2029 Pflugerville TX 78691

Date 12/30/22 Page Primary Account XXXXXXXXXXXXX4278



\* Please help us keep your contact information updated. In the event of fraud or other related issues, it is important for us to be able to contact you. \*

#### Checking Account

Account Title: Belvedere Municipal Utility District Debt Services

Money Market Public Fur		Enclosures/Images	0
Account Number	XXXXXXXXXXXX4278	Statement Dates 12/01/22 thru	u 12/31/22
Previous Balance	57,861.22	Days in the Statement Period	31
Deposits/Credits	.00	Average Ledger Balance	57,861.22
Checks/Debits	.00	Average Collected	57,861.22
Service Charge Amount	.00	Interest Earned	55.72
Interest Paid	55.72	Annual Percentage Yield Earned	1.14%
Current Balance	57,916.94 pm	2022 Interest Paid	796.74

#### Deposits and Other Credits

Date

Description

12/31

Interest Deposit

Amount 55.72

#### **Daily Balance Information**

Date 12/01

Balance 57,861.22 12/31

Date

Balance 57,916.94

#### INTEREST RATE SUMMARY

Date	Rate
11/30	1.050000%
12/15	1.150000%
12/23	1.250000%



## **Belvedere MUD-Debt Service Fund** Reconciliation Detail MUD Debt Service Fund, Period Ending 12/31/2022

Туре	Date	Num	Name	Clr	Amount	Balance
Beginning Balance	Min				-	57,861.22
Cleared Trans	actions					
Deposits ar	nd Credits - 1 ite	m				
Deposit	12/31/2022			Х _	55.72	55.72
Total Depos	its and Credits				55.72	55.72
Total Cleared 1	Fransactions			_	55,72	55,72
Cleared Balance					55.72	57,916.94
Register Balance as of 12/31/2022					55.72	57,916.94
Ending Balance				_	55.72	57,916.94

## **Financial Statements**

## Belvedere Municipal Utility District Balance Sheet

As of January 17, 2023

	Jan 17, 23
ASSETS Current Assets	
Checking/Savings Checking Account - ABC Bank	13,281.72
Money Market - ABC Bank	5,287.38
TexPool	462,097.38
Total Checking/Savings	480,666.48
Accounts Receivable	100 001 07
Taxes Receivable	160,294,87
Total Accounts Receivable	160,294.87
Total Current Assets	640,961.35
TOTAL ASSETS	640,961.35
LIABILITIES & EQUITY Liabilities Current Liabilities Other Current Liabilities	160,294.87
Deferred Revenue	
Total Other Current Liabilities	160,294.87
Total Current Liabilities	160,294.87
Total Liabilities	160,294.87
Equity	104 104 00
Unassigned	464,101.33 16,565.15
Net Income	10,303.13
Total Equity	480,666.48
TOTAL LIABILITIES & EQUITY	640,961.35

## Belvedere Municipal Utility District Profit & Loss

October 1, 2022 through January 17, 2023

	Oct 1, '22 - Jan 17, 23		
Ordinary Income/Expense			
Income	1,267.88		
Interest Income Income	1,207.00		
Property Taxes	74,937.35		
Total Income	74,937.35		
Total Income	76,205.23		
Expense			
Amenity Center Operations	2,336.56		
Trali Repairs Trali General Maintenance	1,021.97		
Total Trail Repairs	1,021.97		
Audit Fees	7,500.00		
Bank Service Charges	10.00		
Bookkeeping Fees	4,800.00		
Engineering District Engineering	12,898.75		
Total Engineering	12,898.75		
Insurance	1.025.40		
Liability Insurance	1,935.10		
Total Insurance	1,935.10		
Legal Fees	1,161.04		
Collection and Appraisal Fees	754.29		
Waste Disposal	27,222.37		
Total Expense	59,640.08		
Net Ordinary Income	16,565.15		
Net Income	16,565.15		

## Belvedere MUD-Debt Service Fund Balance Sheet

As of January 17, 2023

	Jan 17, 23
ASSETS Current Assets Checkles/Saudage	
Checking/Savings MUD Debt Service Fund TexPool	119,418.19 176,455.85
Total Checking/Savings	295,874.04
Accounts Receivable Taxes Receivable	299,925.61
Total Accounts Receivable	299,925.61
Total Current Assets	595,799.65
TOTAL ASSETS	595,799.65
LIABILITIES & EQUITY Liabilities Current Liabilities Other Current Liabilities Deferred Revenue	299,925.61
Total Other Current Liabilities	299,925.61
Total Current Liabilities	299,925.61
Total Liabilities	299,925.61
Equity Restricted Net Income	235,996.25 59,877.79
Total Equity	295,874.04
TOTAL LIABILITIES & EQUITY	595,799.65

#### Belvedere MUD-Debt Service Fund Profit & Loss

October 1, 2022 through January 17, 2023

	Oct 1, '22 - Jan 17, 23
Ordinary Income/Expense Income Tax Revenue	140,214.37
Total Income	140,214.37
Expense Bond Principal Interest Expense Paying Agent Fee	0.00 80,309.38 600.00
Total Expense	80,909.38
Net Ordinary Income	59,304.99
Other Income/Expense Other Income Interest Income	572.80
Total Other Income	572.80
Net Other Income	
Vet Income	59,877.79

## **Current Invoices for Approval**

P.O. Box 2029 Pflugerville, TX 78691 (512) 251-5668

Date	Invoice #	
10/3/2022	24939	

Bill To	
Belvedere MUD P.O. Box 2029 Pflugerville, TX 78691	

Description		Amount
October 2022 accounting services.		1,200.00
	,,,	Rued 10/3/22
		LUCA 101312L
Thank you for your business.	Total	\$1,200.00
	1000	ψ1,200100

P.O. Box 2029 Pflugerville, TX 78691 (512) 251-5668

Date	Invoice #		
11/2/2022	30007		

Bill To	
Belvedere MUD P.O. Box 2029 Pflugerville, TX 78691	

Description		/	Amount
November 2022 accounting services.			1,200.00
		7924	
		١ ، ١	d 11/2/22
	1	1 Kec	el moill
Thank you for your business.	To	otal	\$1,200.00

P.O. Box 2029 Pflugerville, TX 78691 (512) 251-5668

Date	Invoice #
12/7/2022	30026

Bill To	
Belvedere MUD P.O. Box 2029 Pflugerville, TX 78691	

Description			Amount
December 2022 accounting services.			1,200.00
		Reid	12/7/22
Thank you for your business.	To	otal	\$1,200.00

P.O. Box 2029 Pflugerville, TX 78691 (512) 251-5668

Date	Invoice #
1/5/2023	30040

Bill To	
Belvedere MUD	
P.O. Box 2029	
Pflugerville, TX 78691	

Description		Amount
January 2023 accounting services.		1,200.00
	-	
		Reid 15/23
Thank you for your business.	<b>Total</b>	\$1,200.00



## Manuela's Cleaning Services

Residensail/Commercial Cleaning

11122 West Cave Blvd Dripping Springs, Texas 78620 Phone: 512-203-2228

Belvedere

Invoice 123

Send payment to:

For:

Manuela's Cleaning Services 11122 West Cave Blvd Dripping Springs, TX 78620 Belvedere Amenity Center Payment is due upon receipt of this invoice

#### DESCRIPTION

The following cleaning services were performed at the Amenity Center ( MUD )on the following dates:

Dec 4

Dec 11

Dec 18

Dec 26

Labor -4 Days @ 115.00

Totals: \$460.00

Please make payments to Manuela's Cleaning Services and mail to the address above. If you have any questions concerning this invoice, contact Manuela Bigley @ 512-203-2228, or e-mail at mlbigley1@yahoo.com. Thank you for your prompt payment.

Recd VIII23

## WEST, DAVIS & COMPANY

A LIMITED LIABILITY PARTNERSHIP

Belvedere Municipal Utility District c/o Jeff Monzingo via Email jeff@jeffmcpa.com

December 31, 2022

Professional services involved with preparation of Audited Financial Statements for the year ended September 30, 2022

\$ 7,500.00

Thank you!

Recd 17/23



#### TEXAS DISPOSAL SYSTEMS, INC.

PO BOX 674090 • DALLAS, TX 75267-4090 1 (800) 375-8375 PHONE • (512) 421-1344 FAX www.texasdisposal.com

#### INVOICE

ACCOUNT #:	1 -0114386 3
ACCOUNT NAME:	BELVEDERE MUD
INVOICE DATE:	01/01/2023
INVOICE #:	7016844
PAY THIS AMOUNT:	14,218.04
SERVICE LOCATION:	VARIOUS RESIDENTIAL

DATE	DESCRIPTION		QTY. RA1	TOTAL TE AMOUNT
		BARNES		
	8509 SPRINGDALE RIDGE DR			
1/01/23	96G TRASH@CURB+3 BAGS	_	1.00	74.13
	Total	74.13		
	** Sub Acct: 1 - 7595 F	HARGROVE		
	8100 BELLANCIA DR			n. 10
	96G TRASH@CURB+3 BAGS		1.00	74.13
	Total	74.13		
	** Sub Acct: 1 - 8065 A	ATCHLEY		
	8817 BELLANCIA DR			
	96G TRASH@CURB+3 BAGS		1.00	74.13
	Total	74.13		
	** Sub Acct: 1 - 9881 N	NUGENT		
	8401 LAKEWOOD RIDGE CV			
	96G TRASH@CURB+3 BAGS		1.00	74.13
	Total	74.13		
	** Sub Acct: 1 - 13827 (	COLEY, JAMIE		
	8324 VERDE MESA CV			
	96G TRASH@CURB+3 BAGS		1.00	74.13
	Total	74.13		
	** Sub Acct: 1 - 14993 S	SCHICKEL/SARKODI		
	8508 ROLLINS DR			
	96G TRASH@CURB+3 BAGS		1.00	74.13
	Total	74.13		
	** Sub Acct: 1 ~ 15794 G	GOFORTH		ı

IMPORTANT MESSAGE:

PAYMENT DUE UPON RECEIPT

Recol 1/1/23

INVOICE DATE

01/01/2023

PLEASE REMIT BOTTOM PORTION WITH YOUR PAYMENT INVOICE#

7016844



#### TEXAS DISPOSAL SYSTEMS, INC.

PO BOX 674090 DALLAS, TX 75267-4090 41599-4FDK

AMOUNT DUE ACCT.# 1 -0114386 3 14,218.04

RETURN SERVICE REQUESTED  PAGE: 1 of 14

Pay bill online @ texasdisposal.com. 41599-4FDK\*TIC14848l000025

655898D (PC2)

DUE DATE

UPON RECEIPT

Please check if address is incorrect and indicate change on reverse side.

0101143863701684400014218043



#### ոլիակիիկերիայինիրիակիրինինակի

BELVEDERE MUD JEFF MONZINGO P.O. BOX 2029 PFLUGERVILLE, TX 78691-2029 TEXAS DISPOSAL SYSTEMS, INC. PO BOX 674090 DALLAS, TX 75267-4090

JEFF MONZINGO

ACCOUNT#	INVOICE DATE	INVOICE#	PAGE
1 -0114386 3	01/01/2023	7016844	2 of 14

DATE DESCRIPTION		QTY. R	TOTAL MATE AMOUNT
8325 LAKEWOOD RIDGE CV			
96G TRASH@CURB+3 BAGS		1.00	74.13
Total	74.13		•
** Sub Acct: 1 - 16317 EVANS			
18309 FLAGLER DR			
96G TRASH@CURB+3 BAGS		1.00	74.13
Total	74.13		
** Sub Acct: 1 - 114414 MENAK	OFF		
7900 LYNCHBURG DR			
96G TRASH@CURB+3 BAGS		1.00	74.13
Total	74.13		
** Sub Acct: 1 - 114415 KOERN	ER		
7824 LYNCHBURG DR		- 00	74 17
96G TRASH@CURB+3 BAGS		1.00	74.13
Total	74.13		
** Sub Acct: 1 - 114416 SCHNE	EBERGER		
7816 LYNCHBURG DR			74 12
96G TRASH@CURB+3 BAGS		1.00	74.13
Total	74.13		
** Sub Acct: 1 - 114417 BLOSS	SR		
7808 LYNCHBURG DR			m 4 1 2
96G TRASH@CURB+3 BAGS	<b>5</b>	1.00	74.13
Total	74.13		
** Sub Acct: 1 - 114418 SIMPSO	ON		
7732 LYNCHBURG DR		0.00	24 10
96G TRASH@CURB+3 BAGS	m / a o	2.00	74.13
Total	74.13		
** Sub Acct: 1 - 114419 MARSHA	γ⊔L -		
7709 LYNCHBURG DR		1 00	71 13
96G TRASH@CURB+3 BAGS	74.40	1.00	74.13
Total	74.13		
** Sub Acct: 1 - 114420 FOSSUM	1		
18032 GLENVILLE CV		1 00	74 17
96G TRASH@CURB+3 BAGS	24 10	1.00	74.13
Total	74.13		
** Sub Acct: 1 - 114421 BRANDT			
18000 GLENVILLE CV		1 00	74 77
96G TRASH@CURB+3 BAGS	74 10	1.00	74.13
Total	74.13		
** Sub Acct: 1 - 114422 DATTA			
18033 GLENVILLE CV		1 00	74 17
96G TRASH@CURB+3 BAGS	9 / 1 O	1.00	74.13
Total	74.13		
** Sub Acct: 1 - 114423 ROTH			
17929 FLAGLER DR		0.00	74 10
96G TRASH@CURB+3 BAGS	74.10	2.00	74.13
Total	74.13		
** Sub Acct: 1 - 114424 TOSCHI	K		
18128 FLAGLER DR		1 00	74 12
96G TRASH@CURB+3 BAGS	74.33	1.00	74.13
Total	74.13		
** Sub Acct: 1 - 114425 TRICKE	TT		
8017 MAGNOLIA RIDGE CV		1.00	7 4 7 7
96G TRASH@CURB+3 BAGS	74 10	1.00	74.13
Total	74.13		
** Sub Acct: 1 - 114646 BELVED	EKE AMENIT		
17400 FLAGLER DR		2 00	כר גר
96G TRASH@CURB+3 BAGS		2.00	74.13
96G RES TRASH XTRA CART		1.00	16.89

ACCOUNT#	INVOICE DATE	INVOICE#	PAGE	
1 -0114386 3	01/01/2023	7016844	3 of 14	

DATE DESCRIPTION			QTY. RATE	TOTAL AMOUNT
Total	· · · · · · · · · · · · · · · · · · ·	91.02	· · · · · · · · · · · · · · · · · · ·	<u> </u>
** Sub Acct: 1 - 114849	HOLM			
7716 LYNCHBURG DR				-
96G TRASH@CURB+3 BAGS			1.00	74.13
** Sub Acct: 1 - 115034	M T T T T T T T T T T T T T T T T T T T	74.13		
7901 LYNCHBURG DR	MILLERK			
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 117497	DINGER			
18041 GLENVILLE CV				
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 117762 7825 LYNCHBURG DR	BRADSHAW			
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13	1,00	, , , , , ,
** Sub Acct: 1 - 117860	KOESTER			
17945 FLAGLER DR				
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 118368	KUCHLER			
7817 LYNCHBURG DR 96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13	1.00	74.20
** Sub Acct: 1 - 120319	RIEGER	14.13		
8000 CARLTON RIDGE CV				
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 121009	FALDYN			
18025 GLENVILLE CV			1 00	74 10
96G TRASH@CURB+3 BAGS Total		74.13	1.00	74.13
** Sub Acct: 1 - 121996	KAPOOR	74.13		
7800 LYNCHBURG DR	1412 0 0 11			
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 122287	POLON			
8133 MAGNOLIA RIDGE CV				
96G TRASH@CURB+3 BAGS		74 10	1.00	74.13
Total	CHITT TO	74.13		
** Sub Acct: 1 - 123909 8016 MAGNOLIA RIDGE CV	2110717			
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 124090	UBERTINI			
8401 BELLANCIA DR				***************************************
96G TRASH@CURB+3 BAGS			1.00	74.13
Total	A DAIOT D	74.13		1
** Sub Acct: 1 - 124149 18109 FLAGLER DR	AKNOPD			
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13	1.00	, 1, 10
** Sub Acct: 1 - 124668	CROCKETT	<del>-</del>		
8001 MAGNOLIA RIDGE CV				
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		ļ
** Sub Acct: 1 - 124718	WILES			
18432 FLAGLER DR				

(	ACCOUNT #	INVOICE DATE	INVOICE#	PAGE
	1 -0114386 3	01/01/2023	7016844	4 of 14

DATE DESCRIPTION			QTY, RAT	TOTAL E AMOUNT
96G TRASH@CURB+3 BAGS		<b>5.4.4</b> 0	1.00	74.13
Total	DODDDDD	74.13		-
** Sub Acct: 1 - 125352 8025 CARLTON RIDGE CV	KOBEKIS			
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 125687	BECKER			
7717 LYNCHBURG DR			1.00	74.13
96G TRASH@CURB+3 BAGS Total		74.13	1.00	/4.15
** Sub Acct: 1 - 125826	KELLY	, 1 ,		
8041 CARLTON RIDGE CV				
96G TRASH@CURB+3 BAGS		5.40	1.00	74.13
Total	משאדאמ	74.13		
** Sub Acct: 1 - 126478 17937 FLAGLER DR	EMBREK			
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 126666	RUNKLE			
7708 LYNCHBURG DR 96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13	2.00	, 11.10
** Sub Acct: 1 - 127961	GUZIEJKA	1		
18016 GLENVILLE CV				
96G TRASH@CURB+3 BAGS		74 12	1.00	74.13
Total ** Sub Acct: 1 - 128525	WEST	74.13		
18200 FLAGLER DR	WED1			
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 128597 17736 FLAGLER DR	HAKRIMAN			
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 128625	O'BRIEN			
18308 FLAGLER DR			1.00	74.13
96G TRASH@CURB+3 BAGS Total		74.13	1.00	74.13
** Sub Acct: 1 - 135928	WALDRIP	,,,,,,		
8416 BELLANCIA DR				
96G TRASH@CURB+3 BAGS			1.00	74.13
Total ** Sub Acct: 1 - 136483	THINEN	74.13		
17813 FLAGLER DR	TITIADDIA			
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 136802	DAVIS			
8408 BELLANCIA DR 96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13	1,00	11123
** Sub Acct: 1 - 138176	RENNELL			
18425 FLAGLER DR				н
96G TRASH@CURB+3 BAGS		7/ 15	1.00	74.13
Total ** Sub Acct: 1 - 139416	TARVIS	74.13	•	
17737 FLAGLER DR	J.111 Y ± U			
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 140184	PERKY			



ACCOUNT#	INVOICE DATE	INVOICE#	PAGE
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7809 LYNCHBURG DR 96G TRASH@CURB+3 BAGS Total ** Sub Acct: 1 - 140185 MILLSAP, PAUL 8305 VERDE MESA CV 96G TRASH@CURB+3 BAGS Total ** Sub Acct: 1 - 141679 RACHAL 18317 FLAGLER DR 96G TRASH@CURB+3 BAGS Total ** Sub Acct: 1 - 142850 WILSON 18417 FLAGLER DR 96G TRASH@CURB+3 BAGS Total ** Sub Acct: 1 - 142850 WILSON 18417 FLAGLER DR 96G TRASH@CURB+3 BAGS Total ** Sub Acct: 1 - 143066 HAMMOND 17901 FLAGLER DR 96G TRASH@CURB+3 BAGS Total ** Sub Acct: 1 - 143067 HAMMOND 17901 FLAGLER DR 96G TRASH@CURB+3 BAGS Total ** Sub Acct: 1 - 144327 RUSSELL 18441 FLAGLER DR	74.13 74.13 74.13
96G TRASH@CURB+3 BAGS Total  ** Sub Acct: 1 - 140185 MILLSAP, PAUL 8305 VERDE MESA CV 96G TRASH@CURB+3 BAGS Total  ** Sub Acct: 1 - 141679 RACHAL 18317 FLAGLER DR 96G TRASH@CURB+3 BAGS Total  ** Sub Acct: 1 - 142850 WILSON 18417 FLAGLER DR 96G TRASH@CURB+3 BAGS Total  ** Sub Acct: 1 - 143066 HAMMOND 17901 FLAGLER DR 96G TRASH@CURB+3 BAGS Total  ** Sub Acct: 1 - 143066 HAMMOND 17901 FLAGLER DR 96G TRASH@CURB+3 BAGS Total  ** Sub Acct: 1 - 143065 HAMMOND 17901 FLAGLER DR 96G TRASH@CURB+3 BAGS Total  ** Sub Acct: 1 - 144327 RUSSELL	74.13
** Sub Acct: 1 - 140185 MILLSAP, PAUL 8305 VERDE MESA CV 96G TRASH@CURB+3 BAGS 1.00 Total 74.13  ** Sub Acct: 1 - 141679 RACHAL 18317 FLAGLER DR 96G TRASH@CURB+3 BAGS 1.00 Total 74.13  ** Sub Acct: 1 - 142850 WILSON 18417 FLAGLER DR 96G TRASH@CURB+3 BAGS 1.00 Total 74.13  ** Sub Acct: 1 - 143066 HAMMOND 17901 FLAGLER DR 96G TRASH@CURB+3 BAGS 1.00 Total 74.13  ** Sub Acct: 1 - 144327 RUSSELL	74.13
8305 VERDE MESA CV 96G TRASH@CURB+3 BAGS Total  ** Sub Acct: 1 - 141679 RACHAL 18317 FLAGLER DR 96G TRASH@CURB+3 BAGS Total  ** Sub Acct: 1 - 142850 WILSON 18417 FLAGLER DR 96G TRASH@CURB+3 BAGS Total  ** Sub Acct: 1 - 143066 HAMMOND 17901 FLAGLER DR 96G TRASH@CURB+3 BAGS Total  ** Sub Acct: 1 - 143066 HAMMOND 17901 FLAGLER DR 96G TRASH@CURB+3 BAGS Total  ** Sub Acct: 1 - 143067 RUSSELL	74.13
96G TRASH@CURB+3 BAGS 74.13  ** Sub Acct: 1 - 141679 RACHAL 18317 FLAGLER DR 96G TRASH@CURB+3 BAGS 1.00  Total 74.13  ** Sub Acct: 1 - 142850 WILSON 18417 FLAGLER DR 96G TRASH@CURB+3 BAGS 1.00  Total 74.13  ** Sub Acct: 1 - 143066 HAMMOND 17901 FLAGLER DR 96G TRASH@CURB+3 BAGS 1.00  Total 74.13  ** Sub Acct: 1 - 144327 RUSSELL	74.13
Total 74.13  ** Sub Acct: 1 - 141679 RACHAL  18317 FLAGLER DR  96G TRASH@CURB+3 BAGS 1.00  Total 74.13  ** Sub Acct: 1 - 142850 WILSON  18417 FLAGLER DR  96G TRASH@CURB+3 BAGS 1.00  Total 74.13  ** Sub Acct: 1 - 143066 HAMMOND  17901 FLAGLER DR  96G TRASH@CURB+3 BAGS 1.00  Total 74.13  ** Sub Acct: 1 - 144327 RUSSELL	74.13
** Sub Acct: 1 - 141679 RACHAL 18317 FLAGLER DR 96G TRASH@CURB+3 BAGS Total  ** Sub Acct: 1 - 142850 WILSON 18417 FLAGLER DR 96G TRASH@CURB+3 BAGS Total  ** Sub Acct: 1 - 143066 HAMMOND 17901 FLAGLER DR 96G TRASH@CURB+3 BAGS Total  ** Sub Acct: 1 - 144327 RUSSELL	
18317 FLAGLER DR 96G TRASH@CURB+3 BAGS	
96G TRASH@CURB+3 BAGS 74.13  ** Sub Acct: 1 - 142850 WILSON 18417 FLAGLER DR 96G TRASH@CURB+3 BAGS 1.00 Total 74.13  ** Sub Acct: 1 - 143066 HAMMOND 17901 FLAGLER DR 96G TRASH@CURB+3 BAGS 1.00 Total 74.13  ** Sub Acct: 1 - 144327 RUSSELL	
Total 74.13  ** Sub Acct: 1 - 142850 WILSON  18417 FLAGLER DR  96G TRASH@CURB+3 BAGS 1.00  Total 74.13  ** Sub Acct: 1 - 143066 HAMMOND  17901 FLAGLER DR  96G TRASH@CURB+3 BAGS 1.00  Total 74.13  ** Sub Acct: 1 - 144327 RUSSELL	74.13
18417 FLAGLER DR 96G TRASH@CURB+3 BAGS Total  ** Sub Acct: 1 - 143066 HAMMOND 17901 FLAGLER DR 96G TRASH@CURB+3 BAGS Total  ** Sub Acct: 1 - 144327 RUSSELL	74.13
96G TRASH@CURB+3 BAGS 74.13  ** Sub Acct: 1 - 143066 HAMMOND 17901 FLAGLER DR 96G TRASH@CURB+3 BAGS 1.00 Total 74.13  ** Sub Acct: 1 - 144327 RUSSELL	74.13
Total 74.13  ** Sub Acct: 1 - 143066 HAMMOND  17901 FLAGLER DR  96G TRASH@CURB+3 BAGS 1.00  Total 74.13  ** Sub Acct: 1 - 144327 RUSSELL	74.13
** Sub Acct: 1 - 143066 HAMMOND 17901 FLAGLER DR 96G TRASH@CURB+3 BAGS 1.00 Total 74.13 ** Sub Acct: 1 - 144327 RUSSELL	
17901 FLAGLER DR 96G TRASH@CURB+3 BAGS 1.00 Total 74.13 ** Sub Acct: 1 - 144327 RUSSELL	
96G TRASH@CURB+3 BAGS 1.00 Total 74.13 ** Sub Acct: 1 ~ 144327 RUSSELL	
Total 74.13 ** Sub Acct: 1 ~ 144327 RUSSELL	74 13
** Sub Acct: 1 - 144327 RUSSELL	74.13
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	
** Sub Acct: 1 - 145046 SMITH	
18301 FLAGLER DR	
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	
** Sub Acct: 1 - 145047 HUNTOON	
18449 FLAGLER DR	
96G TRASH@CURB+3 BAGS 2.00	74.13
Total 74.13	
** Sub Acct: 1 - 145098 ADAY	
17701 FLAGLER DR 96G TRASH@CURB+3 BAGS 1.00	74.13
96G TRASH@CURB+3 BAGS 1.00 Total 74.13	14.13
** Sub Acct: 1 - 145134 KELLY	
18029 FLAGLER DR	
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	
** Sub Acct: 1 - 145712 SKUTTA	
18201 FLAGLER DR	
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	
** Sub Acct: 1 - 145784 LUECHENOFF	
17725 FLAGLER DR	
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	
** Sub Acct: 1 - 146541 WHITE	:
18208 FLAGLER DR 96G TRASH@CURB+3 BAGS 1.00	71 12
	74.13
Total 74.13 ** Sub Acct: 1 - 146898 CRANE	
8317 BELLANCIA DR	
	74.13
Total 74.13	
** Sub Acct: 1 - 148421 LILLY	
8200 BELLANCIA DR	
	74.13
Total 74.13	1

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DATE DESCRIPTION				QТY.	TOTAL RATE AMOUNT
** Sub Acct: 1 - 18209 FLAGLER DR	148645	BILBERY			
96G TRASH@CURB+3	BAGS		-1	1.00	74.13
Total ** Sub Acct: 1 -	148734	HOOVER	74.13		
8809 BELLANCIA DE	₹.			1.00	74.13
96G TRASH@CURB+3 Total	BAGS		74.13	1,00	(4.10
** Sub Acct: 1 - 17217 FLAGLER DR	149206	BAKSI			
96G TRASH@CURB+3	BAGS			1.00	74.13
Total ** Sub Acct: 1 -	150155	SCHWAMB	74.13		
8601 BELLANCIA DE	₹			1,00	74.13
96G TRASH@CURB+3 Total	BAGS		74.13	1,00	,,,,,,,
** Sub Acct: 1 - 8301 BELLANCIA DE		GOLDE			
96G TRASH@CURB+3			74 17	1.00	74.13
Total ** Sub Acct: 1 -	152188	DUCHALA	74.13		
7724 LYNCHBURG DF 96G TRASH@CURB+3				1.00	74.13
Total			74.13		
** Sub Acct: 1 - 8300 BELLANCIA DR		SARTAIN			
96G TRASH@CURB+3 Total	BAGS		74.13	1.00	74.13
** Sub Acct: 1 -	152967	DOLCH	71.10		
18416 FLAGLER DR 96G TRASH@CURB+3	BAGS			1.00	74.13
Total ** Sub Acct: 1 -	152000	UTTINDENT	74.13		
8301 VERDE MESA C	.v	VIIDAKDAD		- 00	
96G TRASH@CURB+3 Total	BAGS		74.13	1.00	74.13
** Sub Acct: 1 -	153797	KEIPER			
17113 FLAGLER DR 96G TRASH@CURB+3	BAGS			1.00	74.13
Total ** Sub Acct: 1 -	154017	NIEVES	74.13		
18225 FLAGLER DR				1 00	74.13
96G TRASH@CURB+3 Total	BAGS		74.13	1.00	74.13
** Sub Acct: 1 - 8617 BELLANCIA DR		BUTLER			
96G TRASH@CURB+3			n. 10	1.00	74.13
Total ** Sub Acct: 1 -	154422	NORRIS	74.13		
8701 BELLANCIA DR 96G TRASH@CURB+3				1.00	74.13
Total			74.13	1.00	, , , , ,
** Sub Acct: 1 - 17201 FLAGLER DR	154825	BIRDWELL			
96G TRASH@CURB+3	BAGS		74.13	1.00	74.13
Total ** Sub Acct: 1 -	154883	VOLESKO, JUS			
8109 BELLANCIA DR 96G TRASH@CURB+3				1.00	74.13)
Jud Tradificond-1					648374 (PC0)

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DATE DESCRIPTION			QTY. RATE	TOTAL AMOUNT
Total	· · · · · · · · · · · · · · · · · · ·	74.13		
** Sub Acct: 1 - 155125	PRESTI	14.13		
17600 FLAGLER DR	LIGOLI			•
96G TRASH@CURB+3 BAGS			1,00	74.13
1		71 12	1.00	73.40
Total	MACON	74.13		
** Sub Acct: 1 - 155644	MASON			
17801 FLAGLER DR			1 00	74 13
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 156612	AUGUSTINE			
8724 BELLANCIA DR				
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 157108	ABDALLAH			
8201 BELLANCIA DR				•
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 157135	DAVEY			
8808 BELLANCIA DR				
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 157312	JONES	, 1.10		
8524 BELLANCIA DR	OOMED			
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13	1.00	74.13
	CMODODAGO	14172		
** Sub Acct: 1 - 157647	SNODGRASS			
18045 FLAGLER DR			1 00	74.13
96G TRASH@CURB+3 BAGS		74 10	1.00	74.13
Total	A	74.13		
** Sub Acct: 1 - 157803	GREENE			
17100 FLAGLER DR				
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 157903	RUDY			
7619 LYNCHBURG DR				
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 158456	DUNCAN			
17117 FLAGLER DR				
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 158457	GLASSMAN			
8517 BELLANCIA DR				İ
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13	- <del></del>	
** Sub Acct: 1 - 159588	WARREN			
17212 FLAGLER DR				1
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13	1.00	14.17
	UEUDUG	14.17		
** Sub Acct: 1 - 160500 \	A EDVOS			
8101 MAGNOLIA RIDGE CV			2 00	74 33
96G TRASH@CURB+3 BAGS		74 12	2.00	74.13
Total	2 71414555	74.13		
** Sub Acct: 1 - 161437 :	Z I MMERMAN			
8716 BELLANCIA DR				
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 161438 V	VILLIAMS			
8125 MAGNOLIA RIDGE CV				

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DATE         DESCRIPTION         QTY. RATE AM           96G TRASH@CURB+3 BAGS         1.00           Total         74.13           ** Sub Acct: 1 - 161439 DE ROSA	74.13
** Sub Acct: 1 - 161439 DE ROSA	•
8300 VERDE MESA CV 96G TRASH@CURB+3 BAGS 1.00	74.13
500 Habite Cold S Indo	14.13
** Sub Acct: 1 - 162027 DONOVAN 8616 BELLANCIA DR	
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	
** Sub Acct: 1 - 164736 POTTS	
8024 CARLTON RIDGE CV	
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	
** Sub Acct: 1 - 164738 ATKINS	
8308 LAKEWOOD RIDGE CV	24 12
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	
** Sub Acct: 1 - 164739 FREZON	
8324 LAKEWOOD RIDGE CV 96G TRASH@CURB+3 BAGS 1.00	74.13
	14.10
Total 74.13  ** Sub Acct: 1 - 165327 YOUNG	
18325 FLAGLER DR	
96G TRASH@CURB+3 BAGS 2.00	74.13
Total 74.13	
** Sub Acct: 1 - 166651 TRAWICK	
8000 MAGNOLIA RIDGE CV	
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	
** Sub Acct: 1 - 167567 GUERRERO	
18216 FLAGLER DR	
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	
** Sub Acct: 1 - 172769 DECARDENAS	
8117 BELLANCIA DR 96G TRASH@CURB+3 BAGS 1.00	74.13
96G TRASH@CURB+3 BAGS 1.00 Total 74.13	14.10
** Sub Acct: 1 - 174625 LAOSA	
8317 VERDE MESA CV	
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	
** Sub Acct: 1 ~ 175287 GOLDE	
8217 BELLANCIA DR .	
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	
** Sub Acct: 1 - 175927 BLACK	
8321 VERDE MESA CV	
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	
** Sub Acct: 1 - 175934 NEALON	
18217 FLAGLER DR 96G TRASH@CURB+3 BAGS 1.00	74.13
200 214220 1 1 1 2 2 2 2 2	14.17
Total 74.13 ** Sub Acct: 1 - 175961 CASSARA	
** Sub Acct: I - 175961 CASSARA 8312 LAKEWOOD RIDGE CV	
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	
** Sub Acct: 1 - 177001 BRYSON	
	374 (PC0)



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DATE DESCRIPTION		QTY. RATE	TOTAL AMOUNT
17108 FLAGLER DR			
96G TRASH@CURB+3 BAGS	74 17	1.00	74.13
Total ** Sub Acct: 1 - 177431	74.13		
8313 LAKEWOOD RIDGE CV	KAIHI		
96G TRASH@CURB+3 BAGS		1.00	74.13
Total	74.13		
** Sub Acct: 1 - 177433	RODRIGUEZ		
8717 BELLANCIA DR			m 4 4 5
96G TRASH@CURB+3 BAGS	54.42	1.00	74.13
Total	74.13		
** Sub Acct: 1 - 177783 17612 FLAGLER DR	CHRISTIAN		
96G TRASH@CURB+3 BAGS		1.00	74.13
Total	74.13	2,00	
** Sub Acct: 1 - 179123			
8101 BELLANCIA DR			
96G TRASH@CURB+3 BAGS		1.00	74.13
Total	74.13		
** Sub Acct: 1 - 179509	SHVETZ		
8100 MAGNOLIA RIDGE CV 96G TRASH@CURB+3 BAGS		1.00	74.13
Total	74.13	1.00	74110
** Sub Acct: 1 - 180872			
8501 ROLLINS DR			
96G TRASH@CURB+3 BAGS		1.00	74.13
Total	74.13		
** Sub Acct: 1 - 182870	HUMPHRIES		
8800 BELLANCIA DR		1 00	74 10
96G TRASH@CURB+3 BAGS	74.13	1.00	74.13
Total ** Sub Acct: 1 - 182871			
8517 ROLLINS DR	DALICHE		
96G TRASH@CURB+3 BAGS		1.00	74.13
Total	74.13		
** Sub Acct: 1 - 182872	FORD		
8404 LAKEWOOD RIDGE CV			
96G TRASH@CURB+3 BAGS	74.40	1.00	74.13
Total	74.13		
** Sub Acct: 1 - 183091 8304 LAKEWOOD RIDGE CV	GLA55		
96G TRASH@CURB+3 BAGS		1.00	74.13
Total	74.13	2.00	7 1 1 3. 5
** Sub Acct: 1 - 184705			
17837 FLAGLER DR	·		
96G TRASH@CURB+3 BAGS		1.00	74.13
Total	74.13		
** Sub Acct: 1 - 184707	SALVAGGIO		
17800 FLAGLER DR		1 00	74 72
96G TRASH@CURB+3 BAGS	74.13	1.00	74.13
Total ** Sub Acct: 1 - 184709			
17713 FLAGLER DR	CICERDERO		
96G TRASH@CURB+3 BAGS		1.00	74.13
Total	74.13		
** Sub Acct: 1 - 184711			
8400 BELLANCIA DR			
96G TRASH@CURB+3 BAGS	=	1.00	74.13
Total	74.13		

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DATE DESCRIPTION			QTY. RATE	TOTAL AMOUNT
** Sub Acct: 1 - 184712	CARMEN			
8600 BELLANCIA DR				
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 184713 8312 VERDE MESA CV	SCIARAFFIA			
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13	1,00	
** Sub Acct: 1 - 184785	BEASELY			
17700 FLAGLER DR				
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 184786	CHRISTIAN			
17724 FLAGLER DR			1 00	7/ 10
96G TRASH@CURB+3 BAGS		74.13	1.00	74.13
Total ** Sub Acct: 1 - 185163	DOIT TM	74.13		
8700 BELLANCIA DR	FOODIN			
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 185754	SORRENTINO			
8509 ROLLINS DR				
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 186369	LEONARD			
17204 FLAGLER DR			1.00	74.13
96G TRASH@CURB+3 BAGS Total		74.13	1.00	74.13
** Sub Acct: 1 - 187509				
8309 BELLANCIA DR		2 1 0112		
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 188883	SCRANAGE			
8609 ROLLINS DR			- 00	=
96G TRASH@CURB+3 BAGS		74 17	1.00	74.13
Total ** Sub Acct: 1 - 188889 :		74.13		
8516 BELLANCIA DR	DEIN			
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13	2,00	,1.13
** Sub Acct: 1 - 189075 H		,		
7700 LYNCHBURG DR				
96G TRASH@CURB+3 BAGS			2,00	74.13
Total		74.13		
** Sub Acct: 1 - 189077 N	MICKLE			
8116 MAGNOLIA RIDGE CV				
96G TRASH@CURB+3 BAGS		7 4 1 7	1.00	74.13
Total		74.13		
** Sub Acct: 1 - 195982 E 8317 LAKEWOOD RIDGE CV	DANIEL			
96G TRASH@CURB+3 BAGS			1.00	74.13
Total	•	74.13	1.00	73,25
** Sub Acct: 1 - 195983 C				
17500 FLAGLER DR				
96G TRASH@CURB+3 BAGS			1,00	74.13
Total		74.13		
** Sub Acct: 1 - 196521 A	LAGNA			
18401 FLAGLER DR			4 0.7	n
96G TRASH@CURB+3 BAGS			1.00	74.13)

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DATE DESCRIPTION				QT	
	[otal		74.13		
** Sub Acc	t: 1 - 196989	LAWSON			
8320 VERDE					•
96G TRASH@	CURB+3 BAGS			1.00	74.13
	lotal		74.13		
** Sub Acc	: 1 - 197499	HARWELL			
8309 VERDE	MESA CV				
96G TRASH@G	CURB+3 BAGS			1.00	74.13
	fotal		74.13		
** Sub Acct	:: 1 - 198517	SANDERS			
8316 LAKEWO	OOD RIDGE CV				
96G TRASH@C	CURB+3 BAGS			1.00	74.13
7	otal		74.13		
** Sub Acct	: 1 - 198654	ZERBY			
8801 BELLAN	CIA DR				
96G TRASH@C	CURB+3 BAGS			1.00	74.13
	otal		74.13		
	: 1 - 198783	TURLINGTO	N		
17525 FLAGI					
96G TRASH@C	URB+3 BAGS			1.00	74.13
1	otal		74.13		
** Sub Acct	: 1 - 198785	BENNETT			
18009 FLAGI	ER DR				
96G TRASH@C	URB+3 BAGS			1.00	74.13
T	otal		74.13		
** Sub Acct	: 1 - 199798	MCNIVEN			
8508 BELLAN	CIA DR				
96G TRASH@C	URB+3 BAGS			1.00	74.13
	otal		74.13		
** Sub Acct	: 1 - 202639	RIVERS, DA	AVID		
17912 FLAGL	ER DR				
96G TRASH@C	URB+3 BAGS			1.00	74.13
Т	otal		74.13		
** Sub Acct	: 1 - 207424	VOGT			
8609 BELLAN	CIA DR				
96G TRASH@C	URB+3 BAGS			1.00	74.13
Т	otal		74.13		
** Sub Acct	: 1 - 207834	SOUTH			
8500 BELLAN	CIA DR				
96G TRASH@C	URB+3 BAGS			1.00	74.13
T	otal		74.13		
** Sub Acct	: 1 - 209764 :	SALOMON			į
8400 LAKEWO	OD RIDGE CV				
96G TRASH@C	JRB+3 BAGS			2.00	74.13
To	otal		74.13		
** Sub Acct	: 1 - 210006 (	CRANE			
8040 CARLTO	N RIDGE CV				
96G TRASH@CU	JRB+3 BAGS			1.00	74.13
To	otal		74.13		
** Sub Acct:	1 - 212414 I	LOERCH			
8508 SPRING	DALE RIDGE DR				
96G TRASH@CU	JRB+3 BAGS			1.00	74.13
To	otal		74.13		
** Sub Acct:	1 - 216417 N	MORELAND			1
17112 FLAGLE					1
96G TRASH@CU				1.00	74.13
	otal		74.13		
** Sub Acct:	1 - 217885 F	RITCHER			1
8600 ROLLINS					J
			· · · · · · · · · · · · · · · · · · ·		

ACCOUNT#	INVOICE DATE	INVOICE#	PAGE
1 -0114386 3	01/01/2023	7016844	12 of 14

DATE DESCRIPTION			QTY. RATE	TOTAL AMOUNT
96G TRASH@CURB+3 BAGS Total		74.13	2.00	74.13
** Sub Acct: 1 - 22157	6 MCLAUGHLI			÷
17513 FLAGLER DR			1 00	74 37
96G TRASH@CURB+3 BAGS Total		74.13	1.00	74.13
** Sub Acct: 1 - 22220	O ALTMAN	, 1, 13		
8309 LAKEWOOD RIDGE CV			1 00	74 10
96G TRASH@CURB+3 BAGS Total	•	74.13	1.00	74.13
** Sub Acct: 1 - 22490	2 HUDLER	14.30		
8608 BELLANCIA DR				
96G TRASH@CURB+3 BAGS		74 13	1.00	74.13
Total ** Sub Acct: 1 - 22835	7 TURNER	74.13		
8413 LAKEWOOD RIDGE CV	. 40111.211			
96G TRASH@CURB+3 BAGS			1.00	74.13
Total ** Sub Acct: 1 - 228358	S DEMBO	74.13		
17613 FLAGLER DR	J FEIRO			
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 228771 18001 GLENVILLE CV	LUNDERSTE	DT		
96G TRASH@CURB+3 BAGS			2.00	74.13
Total		74.13		
** Sub Acct: 1 - 229947 17824 FLAGLER DR	AUGUSTINE			
96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13		
** Sub Acct: 1 - 232343	FRIED			
17601 FLAGLER DR 96G TRASH@CURB+3 BAGS			1.00	74.13
Total	•	74.13		
** Sub Acct: 1 - 237748	MAJOR			
8709 BELLANCIA DR 96G TRASH@CURB+3 BAGS			1.00	74.13
Total		74.13	1.00	,,,,
** Sub Acct: 1 - 237989	COZART			
18024 GLENVILLE CV 96G TRASH@CURB+3 BAGS			1.00	74.13
90G TRASHUCORB+3 BAGS Total		74.13	T.00	14.13
** Sub Acct: 1 - 240979	EICHLER			
18008 GLENVILLE CV			1 00	71 10
96G TRASH@CURB+3 BAGS Total		74.13	1.00	74.13
** Sub Acct: 1 - 243661	LEE			
8313 VERDE MESA CV				ـ
96G TRASH@CURB+3 BAGS Total		74.13	1.00	74.13
** Sub Acct: 1 - 243973	SPENCER	13.10		
18409 FLAGLER DR				
96G TRASH@CURB+3 BAGS		71 10	1.00	74.13
Total ** Sub Acct: 1 - 244163	POLK	74.13		
8516 ROLLINS DR				
96G TRASH@CURB+3 BAGS		m	1.00	74.13
Total ** Sub Acct: 1 - 245981	CDAFT	74.13		



648374 (PC0)

1	ACCOUNT#	INVOICE DATE	INVOICE#	PAGE
	1 -0114386 3	01/01/2023	7016844	13 of 14

DATE DESCRIPTION QTY. RATE  18017 GLENVILLE CV 96G TRASH@CURB+3 BAGS 1.00 Total 74.13  ** Sub Acct: 1 - 246735 ALLISON	TOTAL AMOUNT
96G TRASH@CURB+3 BAGS 1.00 Total 74.13	
96G TRASH@CURB+3 BAGS 1.00 Total 74.13	
	74.13
** Sub Acct: 1 - 246735 ALLISON	~
AND TION TO THE TABLE TO A TO THE TOTAL TO T	
8321 LAKEWOOD RIDGE CV	
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	
** Sub Acct: 1 - 252761 JAMESON	
7909 LYNCHBURG DR	
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	
** Sub Acct: 1 - 253598 BERGER	
7908 LYNCHBURG DR	
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	
** Sub Acct: 1 - 257247 JEFFERS	
18224 FLAGLER DR	
96G TRASH@CURB+3 BAGS 2.00	74.13
Total 74.13	
** Sub Acct: 1 - 257664 HILTON	
8308 BELLANCIA DR	
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	
** Sub Acct: 1 - 258469 ROGERS	
8601 ROLLINS DR	
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	
** Sub Acct: 1 - 261884 KREISEL	
18333 FLAGLER DR	
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	
** Sub Acct: 1 - 268254 DALL	
8117 MAGNOLIA RIDGE CV	
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	,1112
** Sub Acct: 1 - 269762 ROBERTS	
8116 MAGNOLIA RIDGE CV	
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	14.10
** Sub Acct: 1 - 270369 HARVEY	
8816 BELLANCIA DR	
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	14.13
	,
** Sub Acct: 1 - 270370 FABRE	
8609 SPRINGDALE RIDGE DR	7/ 15
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	
** Sub Acct: 1 - 272354 GARDNER	j
17913 FLAGLER DR	7, 10
96G TRASH@CURB+3 BAGS 2.00	74.13
Total 74.13	
** Sub Acct: 1 - 273994 LUCAS	[
8617 SPRINGDALE RIDGE DR	7, 10
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	[
** Sub Acct: 1 - 275808 JONES	
8516 SPRINGDALE RIDGE DR	
96G TRASH@CURB+3 BAGS 1.00	74.13
Total 74.13	

(	ACCOUNT #	INVOICE DATE	INVOICE#	PAGE
	1 -0114386 3	01/01/2023	7016844	14 of 14

DATE	DESCRIPTION		QTY, RAT	TOTAL E AMOUNT
	** Sub Acct: 1 - 280598 BEARD			
	8616 SPRINGDALE RIDGE DR			
	96G TRASH@CURB+3 BAGS		1.00	74.13
	Total	74.13		
	** Sub Acct: 1 - 288630 MILKIEWICZ	;		
	8601 SPRINGDALE RIDGE DR			
9/30/22	96G TRASH@CURB+3 BAGS		1.00	23.29
10/31/22	96G TRASH@CURB+3 BAGS		1.00	23,29
11/30/22	96G TRASH@CURB+3 BAGS		1.00	23.29
,	Total	69.87		
'	** Sub Acct: 1 - 290021 STARR			
	17208 FLAGLER DR			
1/01/23	96G TRASH@CURB+3 BAGS		1.00	74.13
1, 11, 20	Total	74.13		
	** Sub Acct: 1 - 292099 HALL			
	8608 SPRINGDALE RIDGE DR			
	96G TRASH@CURB+3 BAGS		1.00	74.13
	Total	74.13	W	
	** Sub Acct: 1 - 292118 SMITH	71110		
	18433 FLAGLER DR			
	96G TRASH@CURB+3 BAGS		1.00	74.13
	Total	74.13		
	** Sub Acct: 1 - 293380 SAUNDERS			
	8124 MAGNOLIA RIDGE CV			
	96G TRASH@CURB+3 BAGS		1.00	74.13
	Total	74.13	2.00	
	** Sub Acct: 1 - 293382 CANAHUATE	, 1, 10		
	8308 VERDA MESA CV			
	96G TRASH@CURB+3 BAGS		1.00	74.13
	Total	74.13	1.00	, , , , ,
	** Sub Acct: 1 ~ 293775 KAUACHI	, 1, 10		
	17104 FLAGLER DR			
11/21/22	START SERVICE 12/01-01/01			
11/21/22	96G TRASH@CURB+3 BAGS		1.00	23.29
1/01/23	96G TRASH@CURB+3 BAGS		1.00	74.13
1/01/20	Total	97.42	1.00	73,13
	** Sub Acct: 1 - 293776 DO NOT USE-			
	8308 VERDA MESA CV	DOLE		
11/21/22	START SERVICE 12/01-01/01			
11/21/22	96G TRASH@CURB+3 BAGS		1.00	23.29
	Total	23.29	1.00	23,23
	IOLAI	<i>LJ</i> , <i>L3</i>		
	Total Invoice: 14,2	218.04		14,218.04



Invoice Total \$8,692.50

October 6, 2022

Project No:

16654-0900-22

Invoice No:

00348142

PLEASE NOTE OUR REMIT INFO

REMIT ADDRESS;

ACH INFORMATION:

Gulddity Engineering, LLC P.O. Box 95562 Trulst Bank Account #: 1440017655101

Grapevine, TX 76099-9708

Routing #: 111017694

Please send remittance advice to: AccountsReceivable@Quiddity.com

Payment Terms: Due upon Receipt

Belvedere Municipal Utility District Jeff Monzingo c/o Montoya & Monzingo 203 N. Railroad Avenue Pflugerville, TX 78660

Project<sup>®</sup>

16654-0900-22

**Total Labor** 

2022 General Consult (Belvedere MUD)

Services include preparation for and attendance at September meeting; follow up with contractor on Amenity Center 1-yr. punchlist; site visits to observe Flagler ditch and Mesa Verde ditch; analysis of drainage areas on Mesa Verde, and design of driveway culverts; review of rain event documentation on Flagler, discussion with Director Clifford, and preparation of scope of work for assessment; and review of trail repair proposals.

Professional Services from August 27, 2022 to September 30, 2022

Task	001	District Operations				
			Hours	Rate	Amount	
Professi	onal Engineer III		33.25	195.00	6,483.75	
	Totals		33.25		6,483.75	
	Total La	bor				6,483.75
Task	002	Drainage and Trail Con	sultation			— <del></del>
			Hours	Rate	Amount	
Professi	onal Engineer III		.75	195.00	146.25	
	onal Engineer I		.75	150.00	112.50	
Design F	Engineer II		15.00	130.00	1,950.00	
DOMEST L						

TOTAL THIS INVOICE

2,208.75 \$8,692.50

Eng. Fics-Rig. = 6483,75 Eng Fies-Drainge = 120B.75

Recd 10/7/22



Invoice Total

\$5,622.50

November 14, 2022

Project No:

16654-0005-00

Invoice No:

00350803

#### **PLEASE NOTE OUR REMIT INFO**

REMIT ADDRESS:

ACH INFORMATION:

Quiddity Engineering, LLC P.O. Box 95562

Trulst Bank Account #: 1440017655101

Grapevine, TX 76099-9708

Routing #: 111017694

Please send remittance advice to: AccountsReceivable@Quiddity.com

Payment Terms: Due upon Receipt

Project

Jeff Monzingo

Jeff Monzingo

Belvedere Municipal Utility District

c/o Montoya & Monzingo

203 N. Railroad Avenue

Pflugerville, TX 78660

16654-0005-00

Belvedere Flagler Ditch Analysis

## Professional Services from October 1, 2022 to October 28, 2022

Task	100	Capacity Analysis				
			Hours	Rate	Amount	
	onal Engineer III		2.00	225.00	450.00	
Profession	onal Engineer I		.50	170.00	85.00	
Design E	ngineer II		27.50	145.00	3,987.50	
	Totals		30.00		4,522.50	
	Total Lab	or			•	4,522.50
Task	500	Surveying Services				
			Hours	Rate	Amount	
	Field Crew		5.00	195.00	975.00	
Project S	urveyor II		1.00	125.00	125.00	
	Totals		6.00		1,100.00	
	rotais		0.00		1,100,00	

TOTAL THIS INVOICE



Belvedere Municipal Utility District Jeff Monzingo c/o Montoya & Monzingo 203 N. Railroad Avenue

Pflugerville, TX 78660

Invoice Total \$3,143.75

November 14, 2022

Project No:

16654-0900-22

Invoice No:

00350804

#### PLEASE NOTE OUR REMIT INFO

REMIT ADDRESS;

ACH INFORMATION:

Quiddity Engineering, LLC P.O. Box 95562 Truist Bank Account #: 1440017655101

Grapevine, TX 76099-9708

Routing #: 111017694

Please send remittance advice to: AccountsReceivable@Quiddity.com Payment Terms: Due upon Receipt

Project

16654-0900-22

2022 General Consult (Belvedere MUD)

Services include evaluation of Verde Mesa drainage issues and culvert sizing; discussions regarding 1-year Amenity Center punchlist; review of Sunscape invoices and coordination with Bookkeeper for payment.

#### Professional Services from October 1, 2022 to October 28, 2022

Task

001

District Operations

	Hours	Rate	Amount
Professional Engineer III	10.75	225.00	2,418.75
Design Engineer II	5.00	145.00	725.00
Totals	15.75		3,143.75

**Total Labor** 

3,143.75

TOTAL THIS INVOICE

\$3 143 75

#### **Outstanding Invoices**

Number	Date	Balance
00348142	10/6/2022	8,692.50
Total		8,692,50



Invoice Total \$2,308.75

December 8, 2022

REMIT ADDRESS:

Quiddity Engineering, LLC

P.O. Box 95562

Grapevine, TX 76099-9708

Project No:

16654-0005-00

Invoice No:

00352079

PLEASE NOTE OUR REMIT INFO

Please send remittance advice to: AccountsReceivable@Quiddity.com

Payment Terms: Due upon Receipt

ACH INFORMATION:

Truist Bank

Account #: 1440017655101

Routing #: 111017694

Jeff Monzingo Belvedere Municipal Utility District Jeff Monzingo c/o Montoya & Monzingo

203 N. Railroad Avenue

Pflugerville, TX 78660

Project

16654-0005-00

Belvedere Flagler Ditch Analysis

Professional Services from October 29, 2022 to November 25, 2022

Task

100

Capacity Analysis

	Hours	Rate	Amount
Professional Engineer III	.25	225.00	56.25
Professional Engineer I	.50	170.00	85.00
Design Engineer II	14,00	145.00	2,030.00
Totals	14.75		2,171.25
Total Labor			

Total Labor 2,171.25

Task

500

Surveying Services

 Survey Technician II
 Hours
 Rate
 Amount

 Totals
 1.25
 110.00
 137.50

 1.25
 137.50

Total Labor

137.50

TOTAL THIS INVOICE

\$2,308.75

**Outstanding Involces** 

Number 00350803 11/1 Total

Date 11/14/2022 Balance 5,622.50 **5,622.50** 



Invoice Total

\$1,823.75

December 8, 2022

Project No:

16654-0900-22

Invoice No:

00352078

PLEASE NOTE OUR REMIT INFO

Belvedere Municipal Utility District Jeff Monzingo c/o Montoya & Monzingo 203 N. Railroad Avenue

Pflugerville, TX 78660

REMIT ADDRESS: Quiddity Engineering, LLC P.O. Box 95562 ACH INFORMATION: Truist Bank

P.O. Box 95562 Grapevine, TX 76099-9708 Account #: 1440017655101 Routing #: 111017694

Please send remittance advice to: AccountsReceivable@Guiddity.com Payment Terms: Due upon Receipt

Project

16654-0900-22

2022 General Consult (Belvedere MUD)

Services include preparation for and attendance at meeting regarding 1-year Amenity Center punchlist; review of Sunscape invoices and coordination with Bookkeeper for payment.

## Professional Services from October 29, 2022 to November 25, 2022

Task

001

District Operations

	Hours	Rate	Amount
Professional Engineer III	8.00	225.00	1,800.00
Admin II	.25	95.00	23.75
Totals	8.25		1,823.75
Total Labor			

1,823.75

TOTAL THIS INVOICE

\$1,823.75

#### **Outstanding Invoices**

Number	Date	Balance
00348142	10/6/2022	8,692.50
00350804	11/14/2022	3,143.75
Total		11.836.25



#### **Corporate Trust Account Invoice Summary**

#### Name of Issue:

Belvedere Municipal Utility District Unlimited Tax Bonds, Series 2016 \$1,000,000

Belvedere MUD c/o Montoya & Monzingo, LLP P.O. Box 2029 Pflugerville TX 78691

Ref. Number:

BELV316UT

**DUE DATE 2/1/2023** 

For questions contact: Anthony Orozco 972-892-9973

## **DUE DATE 2/1/2023**

Principal Outstanding

\$860,000.00

**Debt Service** 

Principal Due

\$0.00 \$12,293.75

Interest Due

Total Debt Service Due :

\$12,293.75 V

Semi Annual Paying Agent Fee:

\$200.00

**TOTAL AMOUNT DUE:** 

\$12,493.75

## Wire payments must be received 1 business day prior to Due Date Check & ACH Payments must be received 5 business days prior to the Due Date

IF REMITTING CHECK PAYMENT, PLEASE RETURN THE BOTTOM SECTION AND RETAIN TOP PORTION FOR YOUR RECORDS,

#### Name of Issue:

Belvedere Municipal Utility District Unlimited Tax Bonds, Series 2016 \$1,000,000

Reference Number:	BELV316UT
Net Amount Due:	\$12,493.75
Current Debt Service:	\$12,293.75
Paying Agent Fee:	\$200.00
Amount Enclosed:	

Please use BOK Financial's Standing Debt Service Payment Instructions for the payment. If you need a copy, please reach out to either Anthony Orozco (aorozco@bokf.com/972-892-9973) or Nicholas Deskin (ndeskin@bokf.com/214-987-8833).



#### **Corporate Trust Account Invoice Summary**

#### Name of Issue:

Belvedere Municipal Utility District Unlimited Tax Refunding Bonds, Series 2016 \$3,570,000

Belvedere MUD c/o Montoya & Monzingo, LLP P.O. Box 2029 Pflugerville TX 78691

Ref. Number:

BELV916UTR

**DUE DATE 2/1/2023** 

For questions contact: Anthony Orozco 972-892-9973

## DUE DATE 2/1/2023

Principal Outstanding

\$2,870,000.00

**Debt Service** 

Principal Due

\$0.00

Interest Due

\$52,875.00

Total Debt Service Due:

\$52,875.00V

Semi Annual Paying Agent Fee :

\$200,00

**TOTAL AMOUNT DUE:** 

\$53,075.00

Wire payments must be received 1 business day prior to Due Date
Check & ACH Payments must be received 5 business days prior to the Due Date

IF REMITTING CHECK PAYMENT, PLEASE RETURN THE BOTTOM SECTION AND RETAIN TOP PORTION FOR YOUR RECORDS.

Name of Issue:

Belvedere Municipal Utility District Unlimited Tax Refunding Bonds, Series 2016 \$3,570,000

Reference Number:	BELV916UTR		
Net Amount Due:	\$53,075.00		
Current Debt Service:	\$52,875.00		
Paying Agent Fee:	\$200.00		
Amount Enclosed:			

Please use BOK Financial's Standing Debt Service Payment Instructions for the payment. If you need a copy, please reach out to either Anthony Orozco (aorozco@bokf.com/972-892-9973) or Nicholas Deskin (ndeskin@bokf.com/214-987-8833).



#### **Corporate Trust Account Invoice Summary**

#### Name of Issue:

Belvedere Municipal Utility District Unlimited Tax Park Bonds, Series 2018

Belvedere MUD c/o Montoya & Monzingo, LLP P.O. Box 2029 Pflugerville TX 78691

Ref. Number:

**BELV218UTP** 

For questions contact: Anthony Orozco 972-892-9973

## **DUE DATE 2/1/2023**

Principal Outstanding \$990,000.00

**Debt Service** 

Principal Due \$0.00 Interest Due \$15,140.63

Total Debt Service Due : \$15,140.63 \( \sqrt{} \)

Semi Annual Paying Agent Fee : \$200.00

TOTAL AMOUNT DUE: \$15,340.63

Wire payments must be received 1 business day prior to Due Date
Check & ACH Payments must be received 5 business days prior to the Due Date

IF REMITTING CHECK PAYMENT, PLEASE RETURN THE BOTTOM SECTION AND RETAIN TOP PORTION FOR YOUR RECORDS.

Name of Issue:

Belvedere Municipal Utility District Unlimited Tax Park Bonds, Series 2018

	DUE DATE 2/1/2023
Reference Number:	BELV218UTP
Net Amount Due:	\$15,340.63
Current Debt Service:	\$15,140.63
Paying Agent Fee:	\$200.00
Amount Enclosed:	

Please use BOK Financial's Standing Debt Service Payment Instructions for the payment. If you need a copy, please reach out to either Anthony Orozco (aorozco@bokf.com/972-892-9973) or Nicholas Deskin (ndeskin@bokf.com/214-987-8833).

## **Invoices Paid Between Board Meetings**



September 19, 2022

Involce Number: Account Number:

0023313091922 **8260 16 101 0023313** 

Security Code:

4931

Service At:

17400 FLAGLER DR AUSTIN TX 78738-7663

Contact Us

Visit us at SpectrumBusiness.net Or, call us at 1-866-519-1263

Summary Service from 09/19/22 through 1 details on following pages	0/18/22
Previous Balance	106.54
Payments Received -Thank Youl	-106,54
Remaining Balance	\$0.00
Spectrum Business™ TV	84.98
Other Charges	21.00
Taxes, Fees and Charges	0.56
Current Charges	\$106.54
YOUR AUTO PAY WILL BE PROCESSED 10/0	6/22
Total Due by Auto Pay	\$106.54

**Auto Pay Notice** 

#### **NEWS AND INFORMATION**

NEWI We just increased our starting speeds to 300 Mbps. Call 1-866-634-1154 to find out how your business can benefit from faster internet speeds for the same great price!

Call 1-877-787-1657 to get the best mobile service at the best price for your business. Ask how you can save up to 60% on two mobile lines!



Reed 9/11/12 Paud EFT 10/11/22

Thank you for choosing Spectrum Business.

We appreciate your prompt payment and value you as a customer.

**Auto Pay.** Thank you for signing up for auto pay. Please note your payment may be drafted and posted to your Spectrum Business account the day after your transaction is scheduled to be processed by your bank.



4145 S. FALKENBURG RD RIVERVIEW FL 33578-8652 8260 1600 NO RP 19 09202022 NNNNNNN 01 987630

BELVEDERE HOA PO BOX 2029 PFLUGERVILLE TX 78691-2029 September 19, 2022

BELVEDERE HOA

Invoice Number: Account Number: 0023313091922 8260 16 101 0023313

AUSTIN TX 78738-7663

Service At: 17400 FLAGLER DR

Total Due by Auto Pay

\$106.54

CHARTER COMMUNICATIONS PO BOX 60074 CITY OF INDUSTRY CA 91716-0074



#### BELVEDERE MUD PO BOX 2029 PFLUGERVILLE TX 78691-2029

Page: Issue Date: 1 of 3

Account Number:

Sep 22, 2022 312935378

Ve've updated your Service Agreement terms, including the arbitration clause, effective 2/1/22. By continuing to use our services, you agree. (See att.com/CSA and end of bill).

Vant to stop receiving paper bills and enjoy the convenience of paperless billing? Enroll at itt.com/paperless

lanaging your AT&T bills, products, and services on the go? It's a snap with myAT&T. Go to tt.com/myatt to sign in or sign up.



ıccoun	t summary		
our last bill			\$137.94
ayment,	Sep 14 - Thank	you!	-\$137.94
emaini	ing balance		\$0.00
		•	
ervice	summary		
(E) In	ternet	Page 2	\$69.89
Ph	ione	Page 2	\$68.05
otal ser	vices		\$137.94

Paid EFT 10/14/22 Recd 10/12/22

Fotal due \$137.94 vutoPay is scheduled to debit your bank account on Oct 14, 2022

Vays to pay and manage your account:

myAT&T app
iPhone and Android



services, LLC

P.O. Box 700 Spicewood, Tx 78669

## Invoice

Date	involce#
9/29/2022	5058

Email- mark@atserviceshvac.com

Bill To	
Belvedere 17400 Flagler Dr. Austin,Tx 78738	

TACLA00040532E

	P.O. No.	Terms	Project
		Net 30	
Quantity Descriptio	n	Rate	Amount
2 8-11-22- Reported AC condensate leak crack and leaking water. Dried off pan a Reference work order 506. Ordered a not pan still leaking.	and put JB Weld Epoxy on it ew pan after a return trip due	t. 3	190.00T 190.00T
unit, Replaced the drain pan and re-inst Evacuated system and started up. Check	8-26-22- Pumped down system and removed evaporator coil from unit, Replaced the drain pan and re-installed coil back into unit.  Evacuated system and started up. Checked freon levels and condensate drainage, Reference work order 491.		.10 166.10T
		Sales Tax (0.	0%) \$0.00
		Total	\$736.10

	/					
		~ II.C	DATE 8	CUSTOMER CONT	58160	506
ervices, LLC		CUSTOMER NAME	Megas A	, , ,	se vedere	
/com	mercial A/C & l	Heating	ADDRESS 17	400 Fla	aler	Mun
. private	TACLA0004053		PHONE# 517		TECH MAN	1
7	ox 700; Spicewood, T		EQUIPMENT MANUI	999 2977 FACTURER TO	1 /000	
	981- <del>9</del> 305 - Office (5		MODEL#	SERIAL#		IT ID#
SE	RVICE REP	ORT				
TM:	QUOTE:	PM:	WORK DESCRIPTION			
	1		IThe	COSTUM	er had a	leak
wher	e the c	eturn	is Wit	h a bu	chet cat	ch.hg
water	= Ihe p	) astic	panu	now to	e coil h	ad
a Sp		oul i	vitus o	prette	1 8000 1	10/8
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QUANTITY	DESCRI	PTION	UNIT PRICE	TOTAL PRICE		CHARGE
	<del> </del>				TRUCK CHARGE	
<del></del>					RECOVERY CHARGE	
					VACUUM CHARGE	
					MISC SUPPLIES	
					TOTAL	
					TOTAL LABOR CO	<b>57</b>
					TOTAL LABOR CO	
-					TOTAL EQUIPMENT RENTA	
						%
					TOTAL PRI	
	Labor Hours and Equipm					
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ustomer's Signature	U	0		Customer Email		

, ^*	services, LLC	CUSTOMER NAME	customer cont. 512 75 Megan	80 ×160 Maedgen	491
!	mercial A/C & Heating FACLA00040532E	ADDRESS 1740 PHONE # 512 (	00 Flag	TECH -N/	<u></u>
PO Bo	ox 700; Spicewood, TX 78669 981-9305 - Office (512) 720-2960	EQUIPMENT MANUFAC	SERIAL#	le junit ie	\
SE	RVICE REPORT	- TEM4 ACC			· 10
TM:	QUOTE: PM:		ain po	on the	unit
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QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL PRICE	,	CHARGE
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				TOTAL PRICE	
*	Labor Hours and Equipment Rental Hours and	d Material Verified By:			
omer's Signature	<u> </u>		Customer Email		

## EXAS DISPOSAL SYSTEMS, INC.

PO BOX 674090 • DALLAS, TX 75267-4090 1 (800) 375-8375 PHONE • (512) 421-1344 FAX www.texasdisposal.com

ACCOUNT #:	1 -0114386 3
ACCOUNT NAME:	BELVEDERE MUÐ
INVOICE DATE:	10/01/2022
INVOICE #:	6855953
PAY THIS AMOUNT:	13,004.33
SERVICE LOCATION:	VARIOUS RESIDENTIAL

	** Sub Acct: 1 - 6836 BARNES			
	8509 SPRINGDALE RIDGE DR			69.87
10/01/22	96G TRASH@CURB+3 BAGS	60.07	1.00	09.07
	Total	69.87	ģ.	
	** Sub Acct: 1 - 7595 HARGROVE	3	S. Alexander	
	8100 BELLANCIA DR		1.00	69.87
	96G TRASH@CURB+3 BAGS	69.87	1.00	
	Total	09.01		
	** Sub Acct: 1 - 8065 ATCHLEY 8817 BELLANCIA DR			
	96G TRASH@CURB+3 BAGS		1.00	69.87
	Total	69.87		
	** Sub Acct: 1 - 9881 NUGENT			
	8401 LAKEWOOD RIDGE CV			60.07
	96G TRASH@CURB+3 BAGS		1.00	69.87
	Total	69.87		
	** Sub Acct: 1 - 13827 COLEY, 3	JAMIE		
	8324 VERDE MESA CV		1.00	69.87
•	96G TRASH@CURB+3 BAGS	CO 07	1.00	05.07
	Total	69.87		
	** Sub Acct: 1 - 14993 SCHICKE	J/SARKODI		
	8508 ROLLINS DR		1.00	69.87
	96G TRASH@CURB+3 BAGS	69.87	<b></b>	
	Total ** Sub Acct: 1 - 15794 GOFORTH	<b></b> .		

IMPORTANT MESSAGE:

PAYMENT DUE UPON RECEIPT

		Ricd 10/111	22
Total  ** Sub Acct: 1 - 114422	69.87	1.00	69.8
18033 GLENVILLE CV 96G TRASH@CURB+3 BAGS	69.87	1.00	69.8
** Sub Acet: 1 - 114423 17929 FLAGLER DR			60.01
96G TRASH@CURB+3 BAGS Total ** Sub Acct: 1 - 114424	69.87	2.00	69.8
18128 FLAGLER DR 96G TRASH@CURB+3 BAGS Total	69.87	1.00	69.8
** Sub Acct: 1 - 114425 8017 MAGNOLIA RIDGE CV	• • • • •	1.00	60 B'
96G TRASH@CURB+3 BAGS 96G RES TRASH XTRA CART Total	85.77	1.00	69.8° 15.9
** Sub Acct: 1 - 114646 17400 FLAGLER DR 96G TRASH@CURB+3 BAGS	BELVEDERE AMENIT	2.00	69.8



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648374 (PC0)

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ACCOUNT#	INVOICE DATE	INVOICE#	PAGE
1 -0114386 3	10/01/2022	6855953	2 of 14

1 -01143				
			OTY	TOTAL RATE AMOUNT
	ESCRIPTION		government of the state of the	******
	325 LAKEWOOD RIDGE CV		1.00	69.8
9	6G TRASH@CURB+3 BAGS	69.87		00
	Total			
	* Sub Acct: 1 - 16317	EVANS		
	8309 FLAGLER DR		1.00	69.8
9	6G TRASH@CURB+3 BAGS	69.87		
	Total			
	* Sub Acct: 1 - 114414	MENAKUFE		
	900 LYNCHBURG DR		1.00	69.8
9	6G TRASH@CURB+3 BAGS	69.87		
	Total			
	* Sub Acct: 1 - 114415	KOERNEK		
	824 LYNCHBURG DR		1 00	69.8
9	6G TRASH@CURB+3 BAGS	60.07	1,00	05.0
	Total	69.87		
	* Sub Acct: 1 - 114416	SCHNEEBERGER		
	816 LYNCHBURG DR		1 00	69.8
9	6G TRASH@CURB+3 BAGS		1.00	09.0
	Total	69.87		
*	* Sub Acct: 1 - 114417	BLOSSER		
7	808 LYNCHBURG DR			ž: 60 0
9	6G TRASH@CURB+3 BAGS		1.00	69.8
	Total	69.87	•	
*	* Sub Acct: 1 - 114418	SIMPSON		
	732 LYNCHBURG DR			
	6G TRASH@CURB+3 BAGS		2.00	69.8
9	Total	69.87		
	* Sub Acct: 1 - 114419			
	709 LYNCHBURG DR			
	6G TRASH@CURB+3 BAGS		1.00	69.8
9.		69.87		
	Total			
	* Sub Acct: 1 - 114420	FOSSOM		
	3032 GLENVILLE CV		1.00	69.8
9	6G TRASH@CURB+3 BAGS	69.87		0,0
	Total			
	* Sub Acct: 1 - 114421	BRANDT		
13	3000 GLENVILLE CV		1 00	69.8
9	6G TRASH@CURB+3 BAGS		1.00	69.0
	Total	69.87		
*	* Sub Acct: 1 - 114422	DATTA		
	3033 GLENVILLE CV			20 O
	6G TRASH@CURB+3 BAGS		1.00	69.8
	Total	69.87		
*	* Sub Acct: 1 - 114423	ROTH		
	7929 FLAGLER DR	•		
***	G TRASH@CURB+3 BAGS		2.00	69.8
91	Total	69.87		
. ماد	* Sub Acct: 1 - 114424			
		1000mil		
	3128 FLAGLER DR		1.00	69.8
90	FIG TRASH@CURB+3 BAGS	69.87		
	Total			
	* Sub Acct: 1 - 114425	VATDAK		
	017 MAGNOLIA RIDGE CV		1 00	69.8
	6G TRASH@CURB+3 BAGS		1.00	15.9
90	6G RES TRASH XTRA CART		1.00	13.9
	Total	85.77		
	* Sub Acct: 1 - 114646	BELVEDERE AMENIT		
	7400 FLAGLER DR			co o:
	G TRASH@CURB+3 BAGS		2.00	69.8
				648374 (PC0)



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ACCOUNT#	INVOICE DATE	INVOICE #		
1 -0114386 3	10/01/2022	6855953	3 of 1	

	Face National Control			TOTAL
DATE DESCRIPTION			QTY.	RATE AMOUNT
96G RES TRASH XTRA CART Total		85.77	1.00	15.90
** Sub Acct: 1 - 114849	HOLM	93.11		
7716 LYNCHBURG DR				
96G TRASH@CURB+3 BAGS		60 OB	1.00	69.87
Total ** Sub Acct: 1 - 115034	MTLIER	69.87		
7901 LYNCHBURG DR	PILLILISIN			
96G TRASH@CURB+3 BAGS			2.00	69.87
Total	DINGER	69.87		
** Sub Acct: 1 - 117497 18041 GLENVILLE CV	DINGER			
96G TRASH@CURB+3 BAGS			1.00	69.87
Total		69.87		
** Sub Acct: 1 - 117762	BRADSHAW			
7825 LYNCHBURG DR 96G TRASH@CURB+3 BAGS			1.00	69.87
Total		69.87	1.00	05.07
** Sub Acct: 1 - 117860	KOESTER			
17945 FLAGLER DR 96G TRASH@CURB+3 BAGS			1,00	60.07
Total		69.87	1.00	69.87
** Sub Acet: 1 - 118368	KUCHLER			
7817 LYNCHBURG DR			4 00	
96G TRASH@CURB+3 BAGS Total		69.87	1.00	69.87
** Sub Acct: 1 - 120319	RIEGER	05.07		•
8000 CARLTON RIDGE CV				10000
96G TRASH@CURB+3 BAGS		CO 07	1.00	69.87
Total ** Sub Acct: 1 - 121009	FALDYN	69.87		ά
18025 GLENVILLE CV				
96G TRASH@CURB+3 BAGS		60 0T	1.00	69.87
Total ** Sub Acct: 1 - 121996	KAPOOR	69.87		
7800 LYNCHBURG DR				
96G TRASH@CURB+3 BAGS			1,00	69.87
Total ** Sub Acct: 1 - 122287 :	DOT ON	69.87		
8133 MAGNOLIA RIDGE CV	POLON			
96G TRASH@CURB+3 BAGS			1.00	69.87
Total		69.87		
** Sub Acct: 1 - 123909 3 8016 MAGNOLIA RIDGE CV	SHULTZ	1		
96G TRASH@CURB+3 BAGS			1.00	69.87
Total		69.87		
** Sub Acct: 1 - 124090 [	JBERTINI			
8401 BELLANCIA DR 96G TRASH@CURB+3 BAGS			1.00	69.87
Total		69.87	1,00	03.07
** Sub Acct: 1 - 124149 A	ARNOLD			
18109 FLAGLER DR 96G TRASH@CURB+3 BAGS			1.00	69.87
Total		69.87	1.00	09.07
** Sub Acct: 1 - 124668 (	CROCKETT		•	
8001 MAGNOLIA RIDGE CV			1 00	co 03
96G TRASH@CURB+3 BAGS Total		69.87	1.00	69.87
** Sub Acct: 1 - 124718 W	ILES			ı

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ACCOUNT#	INVOICE DATE	INVOICE#	PAGE
1 -0114386 3	10/01/2022	6855953	4 of 14

				TOTAL
DATE DESCRIPTION			QTY. RATE	AMOUNT
18432 FLAGLER DR	7		1.00	69.81
96G TRASH@CURB+3 BAGS Total	<b>D</b>	69.87	1.00	40.0
** Sub Acct: 1 - 1253	352 ROBERTS	03.0,		
8025 CARLTON RIDGE CV				
96G TRASH@CURB+3 BAGS	3		1.00	69.87
Total		69.87		
** Sub Acct: 1 - 1256	587 BECKER			
7717 LYNCHBURG DR 96G TRASH@CURB+3 BAGS	2		1,00	69.87
Total	,	69.87	_, _,	
** Sub Acct: 1 - 1258	326 KELLY			
8041 CARLTON RIDGE CV	1			60.05
96G TRASH@CURB+3 BAGS	5	O.T	1.00	69.87
Total	400 DEEL/00	69.87		
** Sub Acct: 1 - 1264	1/8 PALMER			
17937 FLAGLER DR 96G TRASH@CURB+3 BAGS	3		1.00	69.87
Total	,	69.87		
** Sub Acct: 1 - 1266	66 RUNKLE	•		
7708 LYNCHBURG DR				cn 0"
96G TRASH@CURB+3 BAGS	5		1.00	69.87
Total		69.87		
** Sub Acct: 1 - 1279	361 GUZIEJKA			
18016 GLENVILLE CV 96G TRASH@CURB+3 BAGS	,		1.00	69.87
Total	•	69.87		
** Sub Acct: 1 - 1285	25 WEST			
18200 FLAGLER DR				
96G TRASH@CURB+3 BAGS	3		1.00	69.87
Total		69.87		
** Sub Acct: 1 - 1285	97 HARRIMAN			
17736 FLAGLER DR 96G TRASH@CURB+3 BAGS	:		1.00	69.87
Total	,	69.87	_,,,	
** Sub Acct: 1 - 1286	25 O'BRIEN			
18308 FLAGLER DR				44 00
96G TRASH@CURB+3 BAGS	}		1.00	69.87
Total		69.87		
** Sub Acct: 1 - 1359	128 WALDRIP			
8416 BELLANCIA DR	,		1.00	69.87
96G TRASH@CURB+3 BAGS Total	1	69.87		
** Sub Acct: 1 - 1364	83 LINDEN			
17813 FLAGLER DR				
96G TRASH@CURB+3 BAGS	}		1.00	69.87
Total		69.87		
** Sub Acct: 1 - 1368	02 DAVIS			
8408 BELLANCIA DR	•		1.00	69.87
96G TRASH@CURB+3 BAGS Total	1	69.87	<b>4.00</b>	
** Sub Acct: 1 - 1381	76 RENNELL			
18425 FLAGLER DR				
96G TRASH@CURB+3 BAGS	•		1.00	69.87
Total		69.87	,	
** Sub Acct: 1 - 1394	16 JARVIS			
17737 FLAGLER DR	1		1.00	69.87
96G TRASH@CURB+3 BAGS Total	•	69.87	1.00	33.01
TOTAL				648374 (PC0)



ACCOUNT# INVOICE DATE INVOICE #
1 -0114386 3 10/01/2022 6855953

5 of 1,

QTY. TOTAL DATE DESCRIPTION RATE AMOUNT \*\* Sub Acct: 1 - 140184 PERRY 7809 LYNCHBURG DR 1.00 69.87 96G TRASH@CURB+3 BAGS 69.87 Total \*\* Sub Acct: 1 - 140185 MILLSAP, PAUL 8305 VERDE MESA CV 96G TRASH@CURB+3 BAGS 1.00 69.87 69.87 Total \*\* Sub Acct: 1 - 141679 RACHAL 18317 FLAGLER DR 1.00 96G TRASH@CURB+3 BAGS 69.87 69.87 Total \*\* Sub Acct: 1 - 142850 WILSON 18417 FLAGLER DR 1.00 69.87 96G TRASH@CURB+3 BAGS Total 69.87 \*\* Sub Acct: 1 - 143066 HAMMOND 17901 FLAGLER DR 1.00 69.87 96G TRASH@CURB+3 BAGS 69.87 Total \*\* Sub Acct: 1 - 144327 RUSSELL 18441 FLAGLER DR 96G TRASH@CURB+3 BAGS 1.00 69.87 69.87 Total \*\* Sub Acct: 1 - 145046 SMITH 18301 FLAGLER DR 69.87 96G TRASH@CURB+3 BAGS 1.00 69.87 Total \*\* Sub Acct: 1 - 145047 HUNTOON 18449 FLAGLER DR 2.00 69.87 96G TRASH@CURB+3 BAGS 69.87 Total \*\* Sub Acct: 1 - 145098 ADAY 17701 FLAGLER DR 96G TRASH@CURB+3 BAGS 1,00 69.87 69.87 Total \*\* Sub Acct: 1 - 145134 KELLY 18029 FLAGLER DR 69.87 96G TRASH@CURB+3 BAGS 1.00 Total 69.87 \*\* Sub Acct: 1 - 145712 SKUTTA 18201 FLAGLER DR 1.00 69.87 96G TRASH@CURB+3 BAGS 69.87 Total \*\* Sub Acct: 1 - 145784 LUECHENOFF 17725 FLAGLER DR 1.00 69.87 96G TRASH@CURB+3 BAGS 69.87 Total \*\* Sub Acct: 1 - 146541 WHITE 18208 FLAGLER DR 69.87 1.00 96G TRASH@CURB+3 BAGS 69.87 Total \*\* Sub Acct: 1 - 146898 CRANE 8317 BELLANCIA DR 1.0Ó 69,87 96G TRASH@CURB+3 BAGS Total 69.87 \*\* Sub Acct: 1 - 148421 LILLY 8200 BELLANCIA DR 69.87 96G TRASH@CURB+3 BAGS 1.00

# S OF 14

## **TEXAS DISPOSAL SYSTEMS**

ACCOUNT#	INVOICE DATE	INVOICE#	PAGE
1 -0114386 3	10/01/2022	6855953	6 of 14

( SATE	DESCRIPTION				QTY. RATE	TOTAL AMOUNT
DATE	DESCRIPTION Total			69.87		
	** Sub Acct: 1 -	148645	BILBERY	05.01		
	18209 FLAGLER DR		<b></b>			
	96G TRASH@CURB+3	BAGS			1.00	69.87
]	Total			69.87		
	** Sub Acct: 1 -		HOOVER			
	8809 BELLANCIA DR 96G TRASH@CURB+3				1.00	69.87
	Total	DAGO		69.87	2.00	
	** Sub Acct: 1 -	149206	BAKSI			
•	17217 FLAGLER DR					
	96G TRASH@CURB+3	BAGS			1.00	69.87
	Total			69.87		
	** Sub Acct: 1 -		SCHWAMB			
	8601 BELLANCIA DR 96G TRASH@CURB+3				1.00	69.87
	Total	CDAG		69.87	William William	
	** Sub Acct: 1 -	152178	GOLDE		₹.	
	8301 BELLANCIA DR					
	96G TRASH@CURB+3	BAGS			1.00	69.87
	Total			69.87		
	** Sub Acct: 1 -		DUCHALA			
	7724 LYNCHBURG DR 96G TRASH@CURB+3				1.00	69.87
	Total	DAGS		69.87	2,00	
	** Sub Acct: 1 -	152605	SARTAIN			
	8300 BELLANCIA DR					
	96G TRASH@CURB+3	BAGS			1.00	69.87
	Total	150067	not an	69.87		
	** Sub Acct: 1 -	152967	DOLCH			
	18416 FLAGLER DR 96G TRASH@CURB+3	BAGS			1.00	69.87
	Total	ынов		69.87		
	** Sub Acct: 1 -	152990	VILLAREAL			
	8301 VERDE MESA C	V				60.07
	96G TRASH@CURB+3	BAGS		60.02	1.00	69.87
	Total	1 E 7 7 7 7 7	wet nen	69.87		
	** Sub Acct: 1 - 17113 FLAGLER DR	153/9/	KEIPEK			
	96G TRASH@CURB+3	BAGS			1.00	69.87
·	Total			69.87		
	** Sub Acct: 1 -	154017	NIEVES			
	18225 FLAGLER DR					CD 07
	96G TRASH@CURB+3	BAGS		60.07	1.00	69.87
	Total	154005	סיש נישו	69.87		
	** Sub Acct: 1 - 8617 BELLANCIA DR	154025	DUILER			
	96G TRASH@CURB+3	BAGS			1.00	69.87
	Total			69.87		
	** Sub Acct: 1 -	154422	NORRIS			
	8701 BELLANCIA DR				1 00	69.87
	96G TRASH@CURB+3	BAGS		69.87	1.00	09.07
	Total ** Sub Acct: 1 - 1	154825	BIRDWELL.	02,07		
	17201 FLAGLER DR	174077	L. L. L. L. T. T. L.			
	96G TRASH@CURB+3	BAGS			1.00	69.87
	Total			69.87		
	** Sub Acct: 1 -	154883	VOLESKO.JUS	STYN		
	8109 BELLANCIA DR					



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	TEXAS DISPOS	SAL SYSTEMS	NATE 1
ACCOUNT#	INVOICE DATE	INVOICE#	
1 -0114386 3	10/01/2022	6855953	7 of .:

DATE	DESCRIPTION			QTY. RATE	TOTAL
DATE	<del> </del>			1.00	69.8
	96G TRASH@CURB+3 BAGS Total		69.87	1.00	05.0
	** Sub Acct: 1 - 15512	5 PRESTI	<b>4</b>		
	17600 FLAGLER DR				
	96G TRASH@CURB+3 BAGS			1.00	69.8
	Total		69.87		
	** Sub Acct: 1 - 15564	4 MASON			
	17801 FLAGLER DR 96G TRASH@CURB+3 BAGS			1,00	69.8
	Total		69.87	1,00	
``	** Sub Acct: 1 - 15661	2 AUGUSTINE			
	8724 BELLANCIA DR				
	96G TRASH@CURB+3 BAGS			1.00	69.8
	Total	0 NOONTINI	69.87		
	** Sub Acct: 1 - 15710 8201 BELLANCIA DR	8 ABDALLAH			
	96G TRASH@CURB+3 BAGS			1.00	69.8
	Total		69,87		
	** Sub Acct: 1 - 15713	DAVEY			
	8808 BELLANCIA DR				
	96G TRASH@CURB+3 BAGS		60.05	1,00	69.8
	Total	) TONEO	69.87		
	** Sub Acct: 1 - 15731: 8524 BELLANCIA DR	2 JUNES			
	96G TRASH@CURB+3 BAGS			1.00	69.8
	Total		69.87		
	** Sub Acct: 1 - 15764	SNODGRASS			
	18045 FLAGLER DR			1 00	co 0
	96G TRASH@CURB+3 BAGS		69.87	1.00	69.8
	Total ** Sub Acct: 1 - 157801	CPFFNF	09.07		
	17100 FLAGLER DR	OKEEND			
	96G TRASH@CURB+3 BAGS			1.00	69.8
	Total		69.87		
	** Sub Acct: 1 - 157903	RUDY			
	7619 LYNCHBURG DR			1.00	69.8
	96G TRASH@CURB+3 BAGS Total		69.87	1.00	09.0
	** Sub Acct: 1 - 158456	DUNCAN	09.07		
	17117 FLAGLER DR				
	96G TRASH@CURB+3 BAGS			1.00	69.8
	Total		69.87		
	** Sub Acct: 1 - 158457	GLASSMAN			
	8517 BELLANCIA DR			1.00	69.8
-	96G TRASH@CURB+3 BAGS Total		69.87	1.00	05,0
	** Sub Acct: 1 - 159588	WARREN	05.07		
	17212 FLAGLER DR				
	96G TRASH@CURB+3 BAGS			1.00	69.8
	Total		69.87		
	** Sub Acct: 1 - 160500	VEDROS			
	8101 MAGNOLIA RIDGE CV 96G TRASH@CURB+3 BAGS			2.00	69.8
	Total		69.87	2.00	05.0
	** Sub Acct: 1 - 161437	ZIMMERMAN	,	•	
	8716 BELLANCIA DR				
	96G TRASH@CURB+3 BAGS			1.00	69.87
	Total		69.87		
	** Sub Acct: 1 - 161438	WILLIAMS			

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1 -0114386 3	10/01/2022	6855953	8 of 14

DATE DESCRIPTION		QTY	TOTAL RATE AMOUNT
8125 MAGNOLIA RIDGE CV 96G TRASH@CURB+3 BAGS		1.00	69.85
Total	69.87		
** Sub Acct: 1 - 161439 [	DE ROSA		
8300 VERDE MESA CV 96G TRASH@CURB+3 BAGS		1,00	69.87
Total	69.87	1100	03,07
** Sub Acct: 1 - 162027 I	OONOVAN		
8616 BELLANCIA DR		1 00	CD 0°
96G TRASH@CURB+3 BAGS Total	69.87	1.00	69.87
** Sub Acct: 1 - 164736 F			
8024 CARLTON RIDGE CV			
96G TRASH@CURB+3 BAGS	<b>60</b> 0.7	1.00	69.87
Total ** Sub Acct: 1 ~ 164738 A	69.87		
8308 LAKEWOOD RIDGE CV	TIVIND		
96G TRASH@CURB+3 BAGS		1.00	69.87
Total	69.87		
** Sub Acct: 1 - 164739 F	'REZON		
8324 LAKEWOOD RIDGE CV 96G TRASH@CURB+3 BAGS		1.00	69.87
Total	69.87	1,00	05.07
** Sub Acct: 1 - 165327 Y	OUNG		
18325 FLAGLER DR		0.00	
96G TRASH@CURB+3 BAGS Total		2.00	69.87
** Sub Acct: 1 - 166651 T			
8000 MAGNOLIA RIDGE CV			
96G TRASH@CURB+3 BAGS		1.00	69.87
Total	69.87		
** Sub Acct: 1 - 167567 G 18216 FLAGLER DR	UERRERU		
96G TRASH@CURB+3 BAGS		1.00	69.87
Total	69.87	•	
** Sub Acct: 1 - 172769 DI	ECARDENAS		
8117 BELLANCIA DR 96G TRASH@CURB+3 BAGS		1.00	69.87
Total	69.87	1.00	69,67
** Sub Acct: 1 - 174625 LA	AOSA		
8317 VERDE MESA CV			
. 96G TRASH@CURB+3 BAGS	60.07	1.00	69.87
Total ** Sub Acct: 1 - 175287 GO	69.87	•	ę.
8217 BELLANCIA DR	J.1.5.2.		
96G TRASH@CURB+3 BAGS		1.00	69.87
Total	69.87		
** Sub Acct: 1 - 175927 BI 8321 VERDE MESA CV	LACK		
96G TRASH@CURB+3 BAGS		1.00	69.87
Total	69.87		
** Sub Acct: 1 - 175934 NE	CALON		
18217 FLAGLER DR		1.00	69.87
96G TRASH@CURB+3 BAGS Total	69.87	1.00	69.87
** Sub Acet: 1 ~ 175961 CA			
8312 LAKEWOOD RIDGE CV			
96G TRASH@CURB+3 BAGS	60 07	1.00	69.87
Total	69.87		648374 (PCN)



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648374 (PC0)

	TEXAS DISPOS	SAL SYSTEMS	
ACCOUNT#	INVOICE DATE	INVOICE#	
1 -0114386 3	10/01/2022	6855953	9 of 1

1 0114300 3	10/01/2	.022	<u> </u>	5855953	9 01 1	
	RONTO NO ENGRESA LA VAL	r Tara nakidi disedili ya ki	eri a seje dia grada		TOTA	7
DATE DESCRIPTION				QT	Y. RATE AMOU	
** Sub Acc	t: 1 - 177001	BRYSON				
17108 FLAG					ž.	
1	CURB+3 BAGS			1.00	No.	69.8
	fotal		69.87		Į.	
	: 1 - 177431	KATHY			3	
	OOD RIDGE CV					
	CURB+3 BAGS		CO 05	1.00	(	69.8
	Cotal	DODD#GUND	69.87			
8717 BELLAN	:: 1 - 177433	RODRIGUEZ				
96G TRASH@C				1 00	6	en or
	otal		69.87	1.00	t	59.87
	: 1 - 177783	CHRISTIAN				
17612 FLAGI		CHRIDIIM				
96G TRASHOC				1.00	6	59.87
	otal		69.87	1.00	· ·	,,,,,,,,
	: 1 - 179123	BALDWIN	03.07			
8101 BELLAN						
96G TRASH@C	URB+3 BAGS			1.00	6	9.87
	otal		69.87		•	
** Sub Acct	: 1 - 179509	SHVETZ				
8100 MAGNOL	IA RIDGE CV					
96G TRASH@C	URB+3 BAGS			1.00	. 6	9.87
_	otal		69.87			
** Sub Acct	: 1 - 180872	LOEPER				
8501 ROLLIN	S DR					
96G TRASH@C				1.00	6	9.87,
	otal		69.87			
	: 1 - 182870	HUMPHRIES				į
8800 BELLANG						ť
96G TRASH@C			60 OF	1.00	6.	9.87
	otal	TO POST OF AN AND AND	69.87			
8517 ROLLINS	: 1 - 182871	BELISLE				
96G TRASH@CU				1 00	~	0 07
	otal		69.87	1.00	6:	9.87
	1 - 182872	FORD	09.07			
8404 LAKEWOO		LOND				
96G TRASHOCU				1,00	60	9.87
	otal		69.87	1,00	0,	), O I
	1 - 183091	GLASS	0,500.			
8304 LAKEWOO						
96G TRASH@CU				1.00	69	9.87
To	tal		69.87			
** Sub Acct:	1 - 184705 1	OULTON, JA	MES			
17837 FLAGLE	R DR					
96G TRASH@CU	RB+3 BAGS			1,00	69	87
	tal		69.87			
** Sub Acct:	1 - 184707 \$	SALVAGGIO				
17800 FLAGLE						
96G TRASH@CU				1.00	69	8.87
	tal		69.87			
	1 - 184709 0	GREENBERG				
17713 FLAGLE						
96G TRASH@CU			CO 02	1.00'	69	.87
	tal 1 - 104711 N	TTT DD	69.87			
8400 BELLANC	1 - 184711 M	TTPPRK				
96G TRASH@CU				1.00	60	.87,
JOG TRADRECO	NOIS DAGG			1.00	09	<u></u>

ACCOUNT#	INVOICE DATE	INVOICE#	PAGE
1 -0114386 3	10/01/2022	6855953	10 of 14

DATE DESCRIPTION			QTY	TOTAL RATE AMOUNT
Total ** Sub Acct: 1 - 184712 C	CARMEN	69.87		
8600 BELLANCIA DR 96G TRASH@CURB+3 BAGS		69.87	1.00	69.87
** Sub Acct: 1 - 184713 S 8312 VERDE MESA CV	SCIARAFFIA	09.07		<u>.</u>
96G TRASH@CURB+3 BAGS Total		69.87	1.00	69.87
** Sub Acct: 1 - 184785 B 17700 FLAGLER DR	BEASELY		1 00	69.87
96G TRASH@CURB+3 BAGS Total ** Sub Acct: 1 - 184786 C	CHRISTIAN	69.87	1.00	09.07
17724 FLAGLER DR 96G TRASH@CURB+3 BAGS			1.00	69.87
Total ** Sub Acct: 1 - 185163 P 8700 BELLANCIA DR		69.87		
96G TRASH@CURB+3 BAGS Total		69.87	1.00	69.87
** Sub Acct: 1 - 185754 SG 8509 ROLLINS DR	SORRENTINO		1.00	CO 07
96G TRASH@CURB+3 BAGS Total ** Sub Acct: 1 - 186369 LI		69.87	1.00	69.87
17204 FLAGLER DR 96G TRASH@CURB+3 BAGS			1.00	69.87
Total ** Sub Acct: 1 - 187509 BI 8309 BELLANCIA DR		69.87 FFORD		
96G TRASH@CURB+3 BAGS Total		69.87	1.00	69.87
** Sub Acct: 1 - 188883 SC 8609 ROLLINS DR 96G TRASH@CURB+3 BAGS	CRANAGE		1.00	69,87
Total  ** Sub Acct: 1 - 188889 SE		69.87	1,00	05.07
8516 BELLANCIA DR 96G TRASH@CURB+3 BAGS		CO 07	1.00	69.87
Total ** Sub Acct: 1 - 189075 HU 7700 LYNCHBURG DR		69.87		
96G TRASH@CURB+3 BAGS Total		69.87	2,00	69.87
** Sub Acct: 1 - 189077 MI 8116 MAGNOLIA RIDGE CV 96G TRASH@CURB+3 BAGS	ICKLE		1.00	69.87
Total ** Sub Acct: 1 - 195982 DA		69.87		
8317 LAKEWOOD RIDGE CV 96G TRASH@CURB+3 BAGS Total	c	59.87	1.00	69.87
** Sub Acct: 1 - 195983 OB 17500 FLAGLER DR		55.07		
96G TRASH@CURB+3 BAGS Total		59.87	1.00	69.87
** Sub Acct: 1 - 196521 AL 18401 FLAGLER DR	LAUNA			648374 (PC0)



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648374 (PC0)

		AL SYSIEMS	- NE 1 1 2 4
ACCOUNT #	INVOICE DATE	INVOICE#	
1 -0114386 3	10/01/2022	6855953	11 of .

1 =0114386 3	10/01/2022	685	55953	11	of .
		- 14. Bust November 1	a santina menika	50-1-131 <sup>3</sup> M.T.A.(11 <sup>1</sup> )	TOTAL
DATE DESCRIPTION			QT	Y. RATE	AMOUNT
	CURB+3 BAGS		1.00		69.8
	Fotal t: 1 ~ 196989 LAWSON	69.87			
8320 VERDE	MESA CV				
	CURB+3 BAGS		1.00		69.8
	Total .	69.87			
** Sub Acct	: 1 - 197499 HARWELL				
96G TRASHOO			1.00		69.87
r	Cotal	69.87	1,00		05.0
** Sub Acct	: 1 - 198517 SANDERS				
96G TRASH@C	OOD RIDGE CV		1 00		60.0
	otal	69,87	1.00		69.87
	: 1 - 198654 ZERBY	05.01			
8801 BELLAN					
96G TRASH@C	URB+3 BAGS otal	60.07	1.00		69.87
	: 1 - 198783 TURLINGT	69.87 ON			
17525 FLAGL	ER DR				
96G TRASH@C			1.00		69.87
	otal : 1 - 198785 BENNETT	69.87		<b>*</b>	
18009 FLAGL	ER DR				
96G TRASH@C			1.00		69.87
	otal	69.87		•	
** Sub Acct 8508 BELLAN	: 1 - 199798 MCNIVEN				
96G TRASH@CU			1.00		69.87
Т	otal	69.87	2.00		0,0,0
	: 1 - 202639 RIVERS, D	DAVID			•
17912 FLAGLE 96G TRASH@CU			1,00		60.07
	otal	69.87	1.00		69.87
** Sub Acct:	1 - 207424 VOGT				
8609 BELLANC					
96G TRASH@CU	JRB+3 BAGS otal	69,87	1.00		69.87
	1 - 207834 SOUTH	09,07			
8500 BELLANC	CIA DR				
96G TRASH@CU			1.00		69.87
	tal 1 - 209764 SALOMON	69.87			
8400 LAKEWOO					
96G TRASH@CU			2.00		69.87
	tal	69.87			
** Sub Acct: 8040 CARLTON	1 - 210006 CRANE				
96G TRASH@CU			1.00		69.87
	tal	69.87	1.00		05.07
	1 - 212414 LOERCH				ŧ
8508 SPRINGDÆ 96G TRASH@CUI			1 00		60.00
	tal	69.87	1.00		69.87
	1 - 216417 MORELAND				
17112 FLAGLE					
96G TRASH@CUE Tot		69.87	1.00		69.87
	1 - 217885 RITCHER	U 2 . O I			

J			
ACCOUNT#	INVOICE DATE	INVOICE#	PAGE
1 -0114386 3	10/01/2022	6855953	12 of 14

DATE DESCRIPTION		QTY. RATE	TOTAL
8600 ROLLINS DR 96G TRASH@CURB+3 BAGS	60.07	2.00	69.87
Total  ** Sub Acct: 1 - 221576 MCLAUGH:  17513 FLAGLER DR	69.87 LIN		
96G TRASH@CURB+3 BAGS Total ** Sub Acct: 1 - 222200 ALTMAN	69,87	1.00	69.87
8309 LAKEWOOD RIDGE CV 96G TRASH@CURB+3 BAGS Total	69,87	1.00	69.87
** Sub Acct: 1 - 224902 HUDLER 8608 BELLANCIA DR	05,07		60.05
96G TRASH@CURB+3 BAGS Total ** Sub Acct: 1 - 228357 TURNER	69.87	1.00	69.87
8413 LAKEWOOD RIDGE CV 96G TRASH@CURB+3 BAGS Total	69.87	1.00	69.87
** Sub Acct: 1 - 228358 PETRO 17613 FLAGLER DR 96G TRASH@CURB+3 BAGS		1.00	69.87
Total ** Sub Acct: 1 - 228771 LUNDERSI	69.87 CEDT		03,07
18001 GLENVILLE CV 96G TRASH@CURB+3 BAGS Total	69.87	2.00	69,87
** Sub Acct: 1 - 229947 AUGUSTIN 17824 FLAGLER DR 96G TRASH@CURB+3 BAGS	IE	1,00	69.87
Total ** Sub Acct: 1 - 232343 FRIED 17601 FLAGLER DR	69.87		
96G TRASH@CURB+3 BAGS Total	69.87	1.00	69.87
** Sub Acct: 1 - 237748 MAJOR 8709 BELLANCIA DR 96G TRASH@CURB+3 BAGS		1,00	69.87
Total  ** Sub Acct: 1 - 237989 COZART  18024 GLENVILLE CV	69.87		
96G TRASH@CURB+3 BAGS Total ** Sub Acct: 1 - 240979 EICHLER	69.87	1.00	69.87
18008 GLENVILLE CV 96G TRASH@CURB+3 BAGS Total	69.87	1.00	69.87
** Sub Acct: 1 - 243661 LEE 8313 VERDE MESA CV	09.07		60.05
96G TRASH@CURB+3 BAGS Total ** Sub Acct: 1 - 243973 SPENCER	69.87	1.00	69.87
18409 FLAGLER DR 96G TRASH@CURB+3 BAGS Total	69.87	1.00,	69.87
** Sub Acct: 1 - 244163 POLK 8516 ROLLINS DR 96G TRASH@CURB+3 BAGS		1.00	69.87
Total	69.87	T + O O	35.01





ACCOUNT# INVOICE DATE INVOICE#
1 -0114386 3 10/01/2022 6855953

13 of

DATE DESCRIPTION			QTY, RATE	TOTAL AMOUNT
** Sub Acct: 1 - 245981	GRAFT			
18017 GLENVILLE CV				
96G TRASH@CURB+3 BAGS Total			1.00	69.
** Sub Acct: 1 - 246735	ALLICON	69.87		
8321 LAKEWOOD RIDGE CV	MINISON			
96G TRASH@CURB+3 BAGS			1.00	69.
Total		69.87	1.00	05.
** Sub Acet: 1 - 252761	JAMESON			
7909 LYNCHBURG DR				
96G TRASH@CURB+3 BAGS			1.00	69.
Total ** Sub Acct: 1 - 253598	DEDCED	69.87		
7908 LYNCHBURG DR	DENGEN			
96G TRASH@CURB+3 BAGS			1.00	69.8
Total		69.87	1.00	0,0
** Sub Acct: 1 - 257247	JEFFERS			
18224 FLAGLER DR				
96G TRASH@CURB+3 BAGS			2.00	69.8
Total ** Sub Acct: 1 - 257664	177 movi	69.87		
8308 BELLANCIA DR	ALLION			
96G TRASH@CURB+3 BAGS			1.00	69.8
Total		69.87	1.00	09.0
** Sub Acct: 1 - 258469 F	ROGERS			
8601 ROLLINS DR				
96G TRASH@CURB+3 BAGS			1.00	69.8
Total ** Sub Acct: 1 ~ 261884 F	TO TO TO TO	69.87		
18333 FLAGLER DR	KEISEL			
96G TRASH@CURB+3 BAGS			1.00	69.8
Total		69.87	1.00	09.0
** Sub Acct: 1 - 268254 D	ALL			
8117 MAGNOLIA RIDGE CV				
96G TRASH@CURB+3 BAGS			1.00	69.8
Total ** Sub Acct: 1 - 269762 R	ODEDMO	69.87		
8116 MAGNOLIA RIDGE CV	OBERTS			
96G TRASH@CURB+3 BAGS	•		1.00	60.0
Total		69.87	± • ∪∪	69.8
** Sub Acct: 1 - 270369 H	ARVEY			
8816 BELLANCIA DR				
96G TRASH@CURB+3 BAGS			1.00	69.8
Total		69.87	3	
** Sub Acct: 1 - 270370 F 8609 SPRINGDALE RIDGE DR	ABRE			
96G TRASH@CURB+3 BAGS			1.00	60.0
Total		69.87	1.00	69.8
** Sub Acct: 1 - 272354 GA	ARDNER			
17913 FLAGLER DR				
96G TRASH@CURB+3 BAGS			2.00	69.87
Total		69.87		
** Sub Acct: 1 ~ 273994 Lt 8617 SPRINGDALE RIDGE DR	CAS			
96G TRASH@CURB+3 BAGS			1 00	60 6E
Total		69.87	1.00	69.87
** Sub Acct: 1 - 275808 JC	NES	U U + U I		
8516 SPRINGDALE RIDGE				
96G TRASH@CURB+3 BAGS				



ACCOUNT#	INVOICE DATE	INVOICE #	PAGE
1 -0114386 3	10/01/2022	6855953	14 of 14

	Total	69.87	<u> </u>	
	** Sub Acct: 1 - 280598 BEA	RD		
	8616 SPRINGDALE RIDGE DR			
	96G TRASH@CURB+3 BAGS		1.00	69.87
	Total	69.87		
	** Sub Acct: 1 - 288630 MILI	KIEWICZ		
	8601 SPRINGDALE RIDG DR			
7/31/22	96G TRASH@CURB+3 BAGS		1.00	23.29
8/31/22	96G TRASH@CURB+3 BAGS		1.00	23.29
	Total	46.58		
	** Sub Acct: 1 - 290021 STAN	RR		
	17208 FLAGLER DR			
10/01/22	96G TRASH@CURB+3 BAGS		1.00	69.87
	Total	69.87		
	Total Invoice:	13,004.33		13,004.33



648374 (PC0)

NNHN



Questions? Call 888-554-4732

Monday through Friday, 8 a.m. - 5:30 p.m. Report an outage: 888-883-3379

pec.coop Se habla Español



Member-owned since 1938 Not-for-profit

Account #:

3000095631

Member Name:

BELVEDERE **HOMEOWNERS** 

ASSOCIATION

Director District: 5

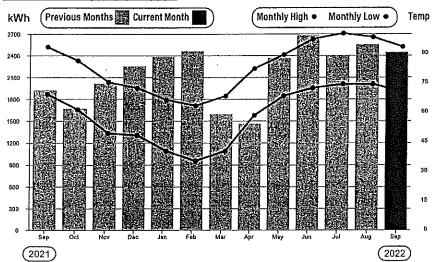
Bill Date:

09/29/2022

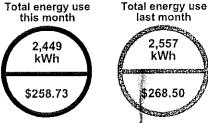
This bill does not reflect payments after 09/29/2022. Charge detail found on the back of this page.

#### Service Address: 17400 FLAGLER DRIVE





## Energy comparison



Total energy use this month last year



Average daily use and temp this month



### IMPORTANT MEMBER INFORMATION

Hop on the energy-savings bus with back-to-school savings ideas from PEC mascot Wattson Raccoon. Teach your kids to conserve with our helpful tips at pec.coop/kids.

Paid EFT 10/18/22

KEEP THIS STATEMENT FOR YOUR RECORDS
PLEASE DETACH AND RETURN BOTTOM PORTION WITH YOUR PAYMENT - WHEN PAYING IN PERSON BRING ENTIRE STATEMENT



Pedernales Electric Cooperative PO Box 1 • Johnson City, TX 78636 Bill Date Account # AutoPay Amount - DO NOT PAY Bank Draft on 10/18/2022

09/29/2022 3000095631 \$280.08

One time donation

Recurring donation

4 672

Kiosk barcode



Mail payment to:

Pedernales Electric Cooperative, Inc. PO Box 1 Johnson City, TX 78636-0001

յ<sup>ջ</sup>ՈՑՈ<sub>Գ</sub>-Ս<sup>Հ</sup>ՈՐՔՈՒԳ-ՄԻՐԻՐԻՐԻՐԻՐԻՐԻՐԻՐԻՐԻՐԻՐԻՐԻՐԻՐԻՐԻՐԻՐԻ

BELVEDERE HOMEOWNERS ASSOCIATION PO BOX 2029 PFLUGERVILLE TX 78691-2029

Արգեմինությունը վիկայինիրինիիի ինականական կունակու

#### Michele Email

From:

jeff@jeffmcpa.com

Sent:

Monday, October 24, 2022 10:27 AM

To:

'Michele Email'

Subject:

FW: Q3 MUD Expenses

Attachments:

SEPTEMBER MUD Invoices.pdf; AUGUST MUD Invoices.pdf; JULY MUD Invoices.pdf;

MUD EXPENSE TRACKER- 2021.1,xlsx

This has been approved to pay. Make sure you adjust it down to \$20,582.41 per Ron.

Jeff Monzingo, CPA Montoya & Monzingo, LLP P.O. Box 2029 Pflugerville, TX 78691

512-251-5668 ext 27

From: Ron Ubertini <Ron.Ubertini@wilsonart.com>

Sent: Friday, October 21, 2022 8:19 AM

To: jeff (jeff@jeffmcpa.com) <jeff@jeffmcpa.com>

Cc: jimkoerner@ymail.com Subject: FW: Q3 MUD Expenses Pauch dut 1398 11/2/22

Jeff,

Attached invoices (with 1 exception) are approved to pay to the HOA. Jim and I do not approve one August expense for printer ink cartridge for \$132.05. So the new amount should be \$20,582.41 (20,714.46-132.05).

Thank you.

From: Megan Maedgen < Megan. Maedgen@fsresidential.com >

Sent: Wednesday, October 19, 2022 2:05 PM
To: Ron Ubertini < Ron. Ubertini@wilsonart.com>

Subject: Q3 MUD Expenses

**EXTERNAL EMAIL:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Ron,

I have attached the invoices for the MUD expenses along with expense tracker.

The total amount due: \$20714.46.

July: \$4,771.63 August: \$11,583.33 September: \$4359.50

Vendor	Date	Amount Paid
SUNSCA0001 SUNSCAPE LANDSCAPING LLC - August irrigation repairs	09/02/2022	67.06
SUNSCA0001 SUNSCAPE LANDSCAPING LLC - September landscape Services	09/02/2022	3,369.29
STEPHE0016 Stephens Enterprises - 8.14-8.27	09/06/2022	196.00
ABCHOM0001 ABC HOME and COMMERCIAL SERVICES - rodent mgmt	09/12/2022	97.43
ABCHOM0001 ABC HOME and COMMERCIAL SERVICES - Quarterly pest control	09/13/2022	231.66
STEPHE0016 Stephens Enterprises - 8.28-9.10	09/20/2022	196.00
SUNSCA0001 SUNSCAPE LANDSCAPING LLC - 9.13 Irrigation repair	09/27/2022	97.95
09.15.2022 - Lowe's	09/30/2022	96.34
09.15.2022 - Lowe's	09/30/2022	7,77

4,359.50

,	\$ 20,714.46
July	\$ 4,771.63
August	\$ 11,583.33
September	\$ 4,359.50



Bill To:

BELVEDERE HOA C\O FIRSTSERVICE RESIDENTIAL NBELZ PO BOX 32562 CHARLOTTE, NC 28203 Account Number 10511046 Invoice Date 6/27/2022 Invoice Number 667169954-6 P.O.

Service Location:

Belvedere HOA 17400 Flagler Dr Austin, TX 78738-7663 Belvedere HOA

_			_	•	
~: o	r\/1	ces	Urc	11/11/2	חסו
95	IVI	uGo		JVIL	ICU

Service	Price
Rodent/Wildlife Management - Every-Other	\$90.00
Tax	\$7.43
Balance	\$97.43

Rodent Management Program Provides for ongoing control of rodents in the structure and coverage includes the physical control, trapping, and removal of animals. Sealing all ac lines holes, plumbing lines holes, vents, ridge cap, eaves, soffit vents and metal joints.

## Please return this portion with your payment

Remit To ABC Home & Commercial Services ATTN: AUSTIN 9475 E Hwy 290 Austin, TX 78724 512-837-9500

www.abchomeandcommercial.com/auslinauslin@goanteater.com

Account Number 10511046

Invoice Number 667169954-6

Amount Paid:	<u>.</u>	Check No.:
Credit Card No.:	 -	CSV Code:
Expiration:	 -	
Signature:	_	









INVOICE

Invoice:

14377

Invoice Date:

07/01/2022

**BILL TO** 

Belvedere HOA AAM-372

C/O FirstService Residential - AUSTIN 7 Lakeway Centre Court Austin, TX 78734

Phone:512.620.7092

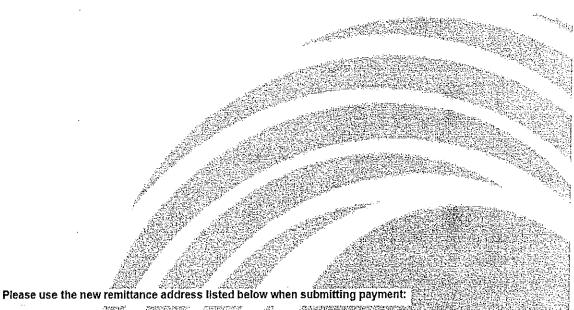
**PROPERTY ADDRESS** 

Belvedere HOA AAM-372 17400 Flagler Drive Austin, TX 78738

INVOICE	TERMS	ACCOUNT MANAGER
07/01/2022	Due on Receipt	Larry Hernandez
DESCRIPTIO	И	PRICE

#20509 - Landscape Maintenance Contract July 2022

\$5,470.81 Subtotal: Sales Tax (8.25%) \$430.12 **INVOICE TOTAL:** \$5,900.93 Pay This Amount: \$5,900.93



Sunscape Landscaping • PO Box 423 • Pflugerville, TX78660



Bill To:

BELVEDERE HOA C\O FIRSTSERVICE RESIDENTIAL NBELZ PO BOX 32562 CHARLOTTE, NC 28203 Account Number 10511046 Invoice Date 12/30/2021 Invoice Number 667169954-3 P.O.

Service Location:

Belvedere HOA 17400 Flagler Dr Austin, TX 78738-7663 Belvedere HOA

### Services Provided

667169954-3

Service	Price
Rodent/Wildlife Management - Every-Other	\$90.00
Тах	\$7.43
Balance	\$97.43

Rodent Management Program Provides for ongoing control of rodents in the structure and coverage includes the physical control, trapping, and removal of animals. Sealing all ac lines holes, plumbing lines holes, vents, ridge cap, eaves, soffit vents and metal joints.

<del></del>	Please return this portion with your paym	en
Remit To ABC Home & Commercial Services ATTN: AUSTIN	Amount Paid:	Check No.:
9475 E Hwy 290 Austin, TX 78724 512-837-9500	Credit Card No.:	CSV Code:
www.abchomeandcommercial.com/austin austin@goanteater.com	Expîration:	
Account Number 10511046	Signature:	
Invoice Number		







# SIUMPHIMINI'S Miniterprises

#### 11122 West Cave Blvd Dripping Springs, Texas 78620 Phone: 512-203-2227

Belvedere July 3, 2022 INVOICE 384

Send payment to:

yment to: For:

Stephen's Enterprises

Belvedere Homeowner Association

11122 West Cave Blvd

Maintenance

Dripping Springs, TX 78620

(HOA) labor – 9 @ \$28.00

Payment is due upon receipt of this

invoice

### DESCRIPTION

The following services were completed from June 19 – July 2

Periodic trash pick-up on Hamilton pool Rd, Streets (HOA)	4hrs
Community, Trails (MUD)	4hrs
Trash (MUD)	3hrs
Turn on to pond ( HOA )	1 hrs
Remove signs @ Flagger and Springdale (HOA) 3 @ 90.00	270.00
Pull and reset stop sign (HOA)	150.00
Walk greenbelt for trash and misc. items (HOA)	2hrs
Wipe down bollards in parking lot (HOA)	1hrs
Hang speed limit signs (HOA)	1hrs
,	
(MUD)Labor – 7 @ \$28.00 (Trash, Trails)	\$196.00
Total (MUD)	\$196.00
Post/signs install/removal	\$420.00

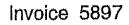
GRAND TOTAL \$860.00

Total (HOA)

<u>\$252.00</u>

\$868.00

Please make checks payable to <u>Stephen's Enterprises</u> and mail to the address above. If you have any questions concerning this invoice, contact Stephen Bigley at 512-203-2227, or e-mail at stephen.bigley@rocketmail.com. Thank you for your prompt payment.





Garcia Services, LLC 4514 Cottonwood St. Austin, TX 78744 US (512) 589-2417 garciaservices.jg@gmail.com www.garciaservicesatx.com

BILL TO Megan Maedgen Belvedere HOA 17400 Flagler Drive Austin, TX 78738

DATE 05/27/2022 PLEASE PAY \$800.00

DUE DATE 06/11/2022

DATE	ACTIVITY		AMOUNT
05/27/2022	Septic Services Septic Tank Cleaning		800.00
Thank you for choosing Garcia Services, customer			
satisfaction is our top priority. We are here for you.	TOTAL DUE	\$800.00	
			THANK YOU.



Invoice:

14582

Invoice Date:

06/30/2022

**BILL TO** 

**PROPERTY ADDRESS** 

Belvedere HOA AAM-372 C/O FirstService Residential - AUSTIN 7 Lakeway Centre Court Austin, TX 78734

Belvedere HOA AAM-372 17400 Flagler Drive Austin, TX 78738

Phone:512.620.7092

INVOICE	TERMS	ACCOUNT	<b>MANAGER</b>
06/30/2022	Due on Receipt	L	arry Hernandez
DESCRIPTION			PRICE
#23216 - Irrigation Repair T&M I	nvestigate a possible mainline break at	Subtotal:	\$463.47
front entrance.	216 - Irrigation Repair T&M Investigate a possible mainline break at t entrance.	Sales Tax (8.25%)	\$0.55
		INVOICE TOTAL:	\$464.02
		Pay This Amount:	\$464.02
TIME			

Labor - 06/24/22 (5.22 x \$87.500)

TIME TOTAL

\$456.75

MATERIAL

1" Fitting (Material) (2.00 x \$3.360)

MATERIAL TOTAL

\$6.72



Please use the new remittance address listed below when submitting payment:



Invoice:

14606

Invoice Date:

06/30/2022

### **BILL TO**

### Belvedere HOA AAM-372

C/O FirstService Residential - AUSTIN 7 Lakeway Centre Court Austin, TX 78734

Phone:512.620.7092

### PROPERTY ADDRESS

Belvedere HOA AAM-372 17400 Flagler Drive Austin, TX 78738

INVOICE	TERMS	ACCOUNT MANAGER
06/30/2022	Due on Receipt	Larry Hernandez

DESCRIPTION PRICE

Subtotal: \$403.23

#23286 - Irrigation Repair T&M. See June Irrigation walkthrough
Sales Tax (8.25%)
\$1.36

INVOICE TOTAL: \$404.59

Pay This Amount: \$404.59

TIME

Labor - 06/29/22 (4.42 x \$87.500)

TIME TOTAL \$386.75

**MATERIAL** 

Drip Fitting (Material) (8.00 x \$2.060)

MATERIAL TOTAL

\$16.48



Please use the new remittance address listed below when submitting payment:

### SIUMPHIMUS Moltanpiriises

11122 West Cave Blvd Dripping Springs, Texas 78620 Phone: 512-203-2227

Belvedere July 18, 2022 INVOICE 385

Send payment to:

For:

Stephen's Enterprises

Belvedere Homeowner Association

11122 West Cave Blvd

Maintenance

Dripping Springs, TX 78620

Payment is due upon receipt of this

4hrs

invoice

### DESCRIPTION

The following services were completed from July 3 – July 16

Periodic trash pick-up on Hamilton pool Rd, Streets (HOA)

Community, Trails (MUD) Trash (MUD) Wipe down bollards in parking lot (HOA)	•	4hrs 3hrs 1hrs
(MUD)Labor – 7 @ \$28.00 (Trash ,Trails)	Total (MUD)	\$196.00 \$196.00
(HOA) labor – 5 @ \$28.00	Total (HOA)	\$140.00 \$ 140.00
	GRAND TOTAL	\$336.00

Please make checks payable to <u>Stephen's Enterprises</u> and mail to the address above. If you have any questions concerning this invoice, contact Stephen Bigley at 512-203-2227, or e-mail at stephen.bigley@rocketmail.com. Thank you for your prompt payment.



### CertaPro Painters of Austin

12444 Research Blvd. Austin, TX 78759 (512) 323-9502 austinoa@certapro.com http://austin.certapro.com

### INVOICE

**BILL TO** 

First Service 17400 Flagler Drive Austin, TX 78738 INVOICE # 15479 DATE 07/28/2022

TERMS Net 30

P.O. NUMBER C5920	SALES REP FR	
ACTIVITY		AMOUNT
Comm. Paint Belvedere (Door)	•	699.08T
Thank you for your business!	SUBTOTAL	699.08
, , , ann, you to your outside the	TAX	57.67
	TOTAL	756.75
	BALANCE DUE	\$756.75



Invoice:

14793

Invoice Date:

08/01/2022

**BILL TO** 

Belvedere HOA AAM-372 C/O FirstService Residential - AUSTIN 7 Lakeway Centre Court Austin, TX 78734

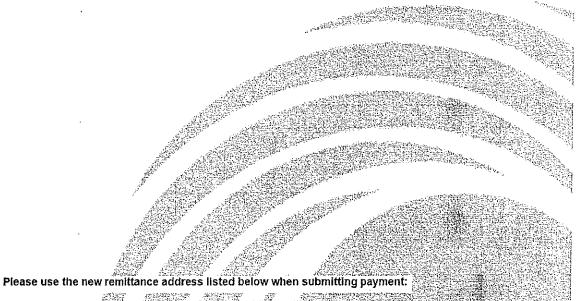
Phone:512.620.7092

**PROPERTY ADDRESS** 

Belvedere HOA AAM-372 17400 Flagler Drive Austin, TX 78738

INVOICE	TERMS	ACCOUN	IT MANAGER
08/01/2022	Due on Receipt		Sedona Knopf
DESCRIPTION			PRICE
#23313 - Landscape Maintenar	nce Contract August 2022	Subtotal:	\$5,470.81
		Sales Tax (8.25%)	\$430.12

\$5,900.93 **INVOICE TOTAL:** Pay This Amount: \$5,900.93





1045 9557 0801 2209 1800 404

1 BTY 12DR SAS WHITE T 20.98 2 COTTONELLE ULTRA CLEAN 24 T 20.98 3 HCF SPRING 32PK OSL WATER F 4.18

\*\*\*\*\*\*\* Sale Subtota]\*\*\* .46.14 \*\*\* VISA EPS 49.60 ITEMS PURCHASED: 3 \*\*\*\*\*\*\*\*

We're Hiring! Text CAREERS to 81931

\* Message and data rates may apply. Message frequency may vary. Text STOP to cancel. \*\*\*\*\*\*\*\*\*\*\*\*\*\*

US DEBIT \*\*\*\*\*\*\*\*\*\*\*\*\*\*

Chip Read USD\$ 49.60 Appr No ; 511847 Ref No ; 238294

Mode: Issuer AID : A0000000980840 TVR : 8000088000 IAD: 06011203A0A000 TSI : 5800 ARC : 00

RECEIPT EXPIRES ON 10-30-22

HEB Food-Drugs #21/404
12400 Hwy. 71, Austin, TX 78738
Phone: (512) 263-0528
Pharmacy: (512) 263-0561
Store Hours: 5 A.M. to 11 P.M.
Your Cashier:SELF CHECKOUT 681
459557 08-01-22 9:18A 681/80/00404

### SYLMPHIMITS Biolicanjoriises

#### 11122 West Cave Blvd Dripping Springs, Texas 78620 Phone: 512-203-2227

Belvedere July 31, 2022 INVOICE 386

Send payment to:

For:

Stephen's Enterprises

Belvedere Homeowner Association

11122 West Cave Blvd

Maintenance

Dripping Springs, TX 78620

Payment is due upon receipt of this

invoice

### DESCRIPTION

The following services were completed from July 17 – July 30

Periodic trash pick-up on Hamilton pool Rd, Streets (HOA)	4hrs
Community, Trails (MUD)	4hrs
Trash (MUD)	3hrs
Wipe down bollards in parking lot (HOA)	1hrs

(MUD)Labor – 7 @ \$28.00 (Trash, Trails)	Total (MUD)	\$196.00 \$196.00
(HOA) labor – 5 @ \$28.00	Total (HOA)	\$140.00 \$ 140.00
	GRAND TOTAL	\$336.00

Please make checks payable to <u>Stephen's Enterprises</u> and mail to the address above. If you have any questions concerning this invoice, contact Stephen Bigley at 512-203-2227, or e-mail at stephen.bigley@rocketmail.com. Thank you for your prompt payment.



Invoice:

14836

Invoice Date:

07/31/2022

### **BILL TO**

### Belvedere HOA AAM-372

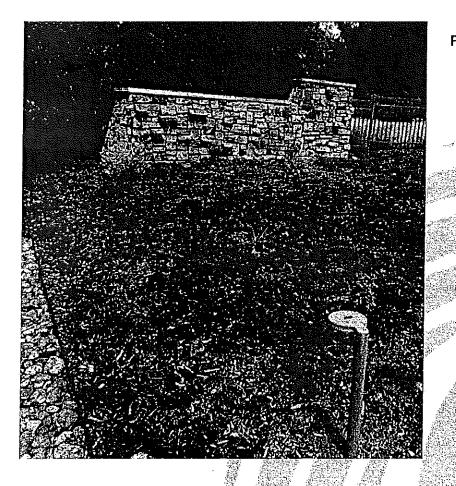
C/O FirstService Residential - AUSTIN 7 Lakeway Centre Court Austin, TX 78734

Phone:512.620.7092

### **PROPERTY ADDRESS**

Belvedere HOA AAM-372 17400 Flagler Drive Austin, TX 78738

	TERMS .		
07/31/2022	Due on Receipt	Sedona Kr	
DESCRIPTION		PR	ICE
#22913 - Mulch Application	Si	ubtotal: \$12,956	3.20



Sales Tax (8.25%) \$1,068.89
INVOICE TOTAL: \$14,025.09
Pay This Amount: \$14,025.09



Invoice:

14841

Invoice Date:

07/31/2022

#### **BILL TO**

### Belvedere HOA AAM-372

C/O FirstService Residential - AUSTIN 7 Lakeway Centre Court Austin, TX 78734

Phone:512.620.7092

### **PROPERTY ADDRESS**

Belvedere HOA AAM-372 17400 Flagler Drive Austin, TX 78738

INVOICE	TERMS	ACCOUN	TMANAGER
07/31/2022	Due on Receipt		Sedona Knopf
DESCRIPTION			PRICE
#23540 - Irrigation Repair T&M. Check on bubbler zone, Run a system check.		Subtotal:	\$282.37
		Sales Tax (8.25%)	\$0.92
		INVOICE TOTAL:	\$283.29
		Pay This Amount:	\$283.29

#### TIME

Labor - 07/19/22 (3.10 x \$87.500)

TIME TOTAL

\$271.25

### MATERIAL

Drip Fitting (Material) (4.00 x \$2.060) Drip Tubing (Material) (4.00 x \$0.720) MATERIAL TOTAL

\$11.12



Please use the new remittance address listed below when submitting payment:

### SYLEPHIENE'S Thoreunjournses

#### 11122 West Cave Blvd Dripping Springs, Texas 78620 Phone: 512-203-2227

Belvedere Aug 15, 2022 INVOICE 387

Send payment to: Stephen's Enterprises 11122 West Cave Blvd Dripping Springs, TX 78620 For:

Belvedere Homeowner Association

Maintenance

Payment is due upon receipt of this.

invoice

### **DESCRIPTION**

The following services were completed from July 31 - Aug 13

Periodic trash pick-up on Hamilton pool Rd, Streets (HOA)	4hrs
Community, Trails (MUD)	4hrs
Trash (MUD)	3hrs
Wipe down bollards in parking lot (HOA)	1hrs
Change A/c filter and smoke detector battery (HOA)	1hrs
Put up No outlet signs (HOA)	1hrs

(MUD)Labor – 7 @ \$28.00 (Trash, Trails)	Total (MUD)	\$196.00 \$196.00
(HOA) labor – 7 @ \$28.00	Total (HOA)	\$196.00 \$196.00
	GRAND TOTAL	\$392.00

Please make checks payable to <u>Stephen's Enterprises</u> and mail to the address above. If you have any questions concerning this invoice, contact Stephen Bigley at 512-203-2227, or e-mail at stephen.bigley@rocketmail.com. Thank you for your prompt payment.



LONE'S NOME CENTEPS, LLC 12611 SUITE 100 SHUPS PRAIY BEE CAVE, 1X 78738 (512) 534-4432

SALE - SALE - SALESH: FSTLANE4 13 TRANSM: 7622207 08-04-22

129,60 7,96 2581\_12 5X8 PREHIER:ESTATE RUG P2 233986 HH 24-TH X 2-TH 51LVER RE 2 0 3.98

> SUBTOTAL: 11.30 148,26 HAVBICE 07606 TOTAL: 148.26 VISA:

VISA: XXXXXXXXXXXXXX771 ANDURT: 148.26 AUTHED: 641009
CHIP REFID: 194807074178 08/04/22 09:09:29
APL: US DEBIT VR: 8080088000
AID: A0006000980840 ISI: 6800
STORE: 1948 ITERHINAL: 07 98/04/22 09:10:07
H OF ITEMS PURCHASED: 3
FXCLUBES FEES, SERVICES AND SPECIAL DROPE ILEKS



THANK YOU FOR SHUPPING LONE'S, FOR DETAILS ON OUR RETURN POLICY, VISIT FINK DETAILS ON DUNK MELDRICH, MISTEL
LONES, COMMETTIONS
A MIRITTEN COPY OF THE RETURN POLICY IS AVAILABLE
AT DUR CUSTOMER SERVICE DESK

STORE HAHALFP; HOE IDELBY

LONE'S PRICE PROMISE
FOR HORE DETAILS, VISIT LONE'S CON-PRICEPROMISE
SIMPLY VOUR FEEDBACKI
ENTER FOR A CHANCE TO BE
UNE OF FIVE \$500 MITHERS TORNEL HOUTHLY!
LEHTRE EN EL SORTEO MENSONAL
PARA SER UND DE LOS CINCO GANADORES DE \$5001

ENTER BY COMPLETING A SHORT SURVEY HITHIN ONE NEEK AT: WWW.loves.com/survay Y O U R 1 D 8076067 194882 164602

HU PURCHASE NECESSARY TO ENTER OR MIN.

VOTO WHERE PROHIBITED. HUST BE 18 DR OLDER TO ENTER.

\*\*OFFICIAL RULES & MINNERS AT: WW. loves.com/survey to the company of the com

TERMERAL; 07 08/04/22 09:10:07 STORE: 1948

## Office DEPOT. OfficeMax

BEE CAVE - (512) 263-7199



SALE .6750-1-1204-1029296-22.7.2) 121; 99 SS

434207 INK, 951CMY/950 121.99

Subtotal: Local Sales and Use T 10.06 Tota: 132.05

Visa 3771: 132:05

**AUTH CODE 230888** TDS Chip Read AID A0000000980840 US DEBIT. TVR 8000088000 CVS No Signature Required

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<u>តិទីតិទីស្លាក់សំពុំទីកិន្ទិស័ព្ទិសិស្តិសិក្សាកិតិទីកិស្តិសិស្តិសិក្សាកិតិទីទីកិ</u>





Invoice:

15014

Invoice Date:

08/31/2022

### **BILL TO**

### Belvedere HOA AAM-372

C/O FirstService Residential - AUSTIN 7 Lakeway Centre Court Austin, TX 78734

Phone:512.620.7092

### **PROPERTY ADDRESS**

Belvedere HOA AAM-372 17400 Flagler Drive Austin, TX 78738

INVOICE	TERMS	ACCOUN	IT MANAGER
08/31/2022	Due on Receipt		Sedona Knopf
DESCRIPTION			PRICE
#23830 - Irrigation Repair T&M. See August irrigation report		Subtotal:	\$132.29
		Sales Tax (8.25%)	\$1.82
		INVOICE TOTAL:	\$134.11
	·	Pay This Amount:	\$134.11

TIME

Labor - 08/17/22 (1.16 x \$95,000)

TIME TOTAL

\$110.20

### **MATERIAL**

Irrigation Nozzle (Material) (4.00 x \$3.070)
Drip Fitting (Material) (4.00 x \$2.451)
MATERIAL TOTAL

\$22.08



Please use the new remittance address listed below when submitting payment:



Invoice:

15134

Invoice Date:

09/01/2022

BILL TO

Belvedere HOA AAM-372 C/O FirstService Residential - AUSTIN 7 Lakeway Centre Court Austin, TX 78734

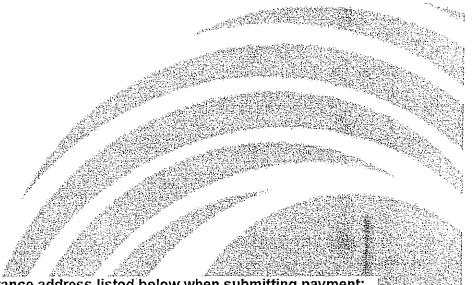
Phone:512.620.7092

**PROPERTY ADDRESS** 

Belvedere HOA AAM-372 17400 Flagler Drive Austin, TX 78738

INVOICE	TERMS	ACCOUNT MANAGER
09/01/2022	Due on Receipt	Sedona Knopf
DESCRIPTION		PRICE
#23927 - Landscape Maintena	nce Contract September 2022	\$6,017.91
Fuel Surcharge		\$228.68

Subtotal: \$6,246.59
Sales Tax (8.25%) \$492.00
INVOICE TOTAL: \$6,738.59
Pay This Amount: \$6,738.59



Please use the new remittance address listed below when submitting payment:

### SYLEPHUMNE'S Engantises

11122 West Cave Blvd Dripping Springs, Texas 78620 Phone: 512-203-2227

Belvedere

INVOICE 388

Aug 28, 2022

Send payment to:

Stephen's Enterprises 11122 West Cave Blvd

Dripping Springs, TX 78620

For:

Belvedere Homeowner Association

Maintenance

Payment is due upon receipt of this

invoice

### DESCRIPTION

The following services were completed from Aug 14 – Aug 27

Periodic trash pick-up on Hamilton pool Rd, Streets (HOA)	4hrs
Community, Trails (MUD)	4hrs
Trash (MUD)	3hrs
Wipe down bollards in parking lot (HOA)	l hrs
Install new pole/sign No Outlet	\$90.00

(MUD)Labor – 7 @ \$28.00 (Trash ,Trails)	Total (MUD)	\$196.00 \$196.00
Install new pole (HOA) labor – 5 @ \$28.00	Total (HOA)	\$90.00 <u>\$140.00</u> \$168.00
,	GRAND TOTAL	\$429.00

Please make checks payable to <u>Stephen's Enterprises</u> and mail to the address above. If you have any questions concerning this invoice, contact Stephen Bigley at 512-203-2227, or e-mail at stephen.bigley@rocketmail.com. Thank you for your prompt payment.



Bill To: BELVEDERE HOA C\O FIRSTSERVICE RESIDENTIAL NBELZ PO BOX 32562 CHARLOTTE, NC 28203 Account Number 10511046 Invoice Date 8/30/2022 Invoice Number 667574294-1 P.O.

Service Location: Belvedere HOA 17400 Flagler Dr Austin, TX 78738-7663 Belvedere HOA

### Services Provided

667574294-1

Service	Price
Rodent/Wildlife Management - Every-Other	\$90.00
Тах	\$7.43
Balance	\$97.43

Rodent Management Program Provides for ongoing control of rodents in the structure and coverage includes the physical control, trapping, and removal of animals. Sealing all ac lines holes, plumbing lines holes, vents, ridge cap, eaves, soffit vents and metal joints.

Please return this portion with your payment		
Remit To ABC Home & Commercial Services ATTN: AUSTIN	Amount Paid:	Check No.:
9475 E Hwy 290 Austin, TX 78724 512-837-9500	Credit Card No.:	CSV Code:
www.abchomeandcommercial.com/austin austin@goanteater.com	Expiration:	
Account Number 10511046	Signature:	
Invoice Number		









Bill To: BELVEDERE HOA CIO FIRSTSERVICE RESIDENTIAL NBELZ PO BOX 32562 CHARLOTTE, NC 28203 Account Number 10511046 Invoice Date 8/29/2022 Invoice Number 667574297-1 P.O.

Service Location:
Belvedere HOA
17400 Flagler Dr
Austin, TX 78738-7663
Belvedere HOA

Price

### Services Provided

Service

Commercial Pest Control - Quarte	riy	\$214.00
Tax		\$17.66
Balance		\$231.66
Quarterly General Pest Control IN	CLUDES 8 RBS	
	Please return this portion with your payment	
Remit To ABC Home & Commercial Services	Amount Paid:	Check No.:
ATTN: AUSTIN 9475 E Hwy 290 Austin, TX 78724 512-837-9500	Credit Card No.:	CSV Code;
www.abchomeandcommercial.com/austin austin@goanteater.com	Expiration:	
Account Number 10511046 Invoice Number 667574297-1	Signature:	

## SILEPHIENTS Kontenjoruses

11122 West Cave Blvd Dripping Springs, Texas 78620 Phone: 512-203-2227

Belvedere

INVOICE 390

Sept 11, 2022

Send payment to:

For:

Stephen's Enterprises 11122 West Cave Blvd Belvedere Homeowner Association

Maintenance

Dripping Springs, TX 78620

Payment is due upon receipt of this

invoice

### **DESCRIPTION**

The following services were completed from Aug 28 – Sept 10

Periodic trash pick-up on Hamilton pool Rd, Streets (HOA) Community, Trails (MUD) Trash (MUD) Wipe down bollards in parking lot (HOA) Power wash pool area and front porch (HOA)		4hrs 4hrs 3hrs 1hrs 5hrs
(MUD)Labor – 7 @ \$28.00 (Trash ,Trails)	Total (MUD)	\$196.00 \$196.00
Power wash rental (HOA) labor – 10 @ \$28.00	Total (HOA)	\$ 60.00 \$280.00 \$340.00
	GRAND TOTAL	\$536.00

Please make checks payable to <u>Stephen's Enterprises</u> and mail to the address above. If you have any questions concerning this invoice, contact Stephen Bigley at 512-203-2227, or e-mail at stephen.bigley@rocketmail.com. Thank you for your prompt payment.



Invoice:

15308

Invoice Date:

09/26/2022

### **BILL TO**

### Belvedere HOA AAM-372

C/O FirstService Residential - AUSTIN 7 Lakeway Centre Court Austin, TX 78734

Phone:512.620.7092

### PROPERTY ADDRESS

Belvedere HOA AAM-372 17400 Flagler Drive Austin, TX 78738

INVOICE	TERMS	ACCOUN	T MANAGER
09/26/2022	Due on Receipt		Sedona Knopf
DESCRIPTION			PRICE
#24108 - Imigation Repair T&M. Fix broken bubblers by pond		Subtotal:	\$195.31
		Sales Tax (8.25%)	\$0.59
		INVOICE TOTAL:	\$195.90
		Pay This Amount:	\$195.90

#### TIME

Labor - 09/13/22 (1.98 x \$95.000)

TIME TOTAL

\$188.10

### MATERIAL

1/2" Fitting (Material) (3.00 x \$2.023)
1/4 Rainbird Barb Connector (Material) (3.00 x \$0.381)
' MATERIAL TOTAL \$7.20



Please use the new remittance address listed below when submitting payment:

### Megan Maedgen

From:

Lowe's Home Improvement <do-not-reply@notifications.lowes.com>

Sent:

Wednesday, September 7, 2022 4:08 PM

To:

Megan Maedgen

Subject:

Thanks for Your Order! #898827544

You don't often get email from do-not-reply@notifications.lowes.com, Learn why this is important



### We Received Your Order

We'll email you any updates to your order, including information on shipping, delivery or store pickup.

Someone else picking up your order? Add an alternate pickup person.

### **CHECK ORDER STATUS**

Order # 898827544 Invoice # 74844

Store Pickup



**LOWE'S OF BEE CAVE, TX #1948** 

12611 SUITE 100 SHOPS PKWY BEE CAVE, TX 78738 (512) 634-4432

### Pickup Item(s)

20-volt Max 80-CFM 130-MPH Handheld Cordless Electric Leaf Blower 1.5 Ah (Battery & Charger Included)

QTY

1

Item #: 1048727 | Model #: LSW221

Unit Price \$89.00 | Subtotal \$89.00

Estimated Pickup Date: Tuesday, September 13, 2022



### Need help with your in-store pickup?

### Give LOWE'S OF BEE CAVE, TX a call at (512) 634-4432

#### Order Info

### Sold To

Mark Greene (512) 750-8160 megan.maedgen@fsresidential.com

Order#

898827544

Invoice #

74844

**Order Date** 

09/07/2022

**Total Savings** 

\$0.00

Subtotal

\$89.00

Shipping/Delivery

\$0.00

**Total Tax** 

\$7.34

Order Total

\$96.34

**Payment** 

VISA ending in 3771 \$96.34

For more information on when you'll be charged, view our billing policy.

### YOU MIGHT ALSO LIKE







黄黄黄草草201

20-ft Spool 0.065-in

Spooled Trimmer

Line

Shop Now

物格常均均15

40-Volt Max 20-in

Push Cordless

Electric Lawn Mower

2 Ah (Battery and

Charger Included)

南南南南郊250

3.6-Volt 6-in Single

Cordless Electric

Hedge Trimmer

(Battery & Charger

included)

**Shop Now** 

**Shop Now** 

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Lowe's App | Return & Refund Policy

1000 Lowes Boulevard, Mooresville, NC 28117

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LOVE'S HOKE CENTERS, LLC 12611 SUITE 100 SHOPS PKWY BEE CAVE, TX 78738 (512) 634-4432

### - SALE -SALESN: \$1946JC3 1699191 TRANSN; \$6179692 09-14-22

220796 HR KEY TO TROS WITH HOLDE 7.1

SUBTOTAL: 7.18
IAX: 0.59
INVOICE 16684 TOTAL: 7.77
UTSA: 7.77

UISA:XXXXXXXXXXXXXX377; AHOUHT:7.77 AUTHCD:16;289 CMIP REFID:1948|6176430 09/14/22 13:21:30

CUSTOMER CODE: N

APL: US DEBIT TUR: 8060080000

AID: 806008000980840 TŠI: 6900

STORE: 1946 TERKINAL: 16 09/14/22 13:21:49

# OF ITEMS PURCHASED:
EXCLUDES FEES, SERVICES AND SPECIAL ORDER ITEMS



THANK YOU FOR SHOPPING LONE'S.

FOR DETAILS ON OUR REJURN POLICY, UISIY
LOUES.COM/RETURNS
A GRITTEN COPY OF THE RETURN POLICY IS AVAILABLE
AT OUR CUSTONER SERVICE DESK

STORE HANAGER: JUSTIN DITTUEROS 14

LONE'S PRICE PROMISE FOR HORE DETAILS, VISIT LONES.COM/PRICEPROMISE

SHARE YOUR FEEDBACK!
ENTER FOR A CHANCE TO BE
ONE OF FIVE 4500 WINNERS DRAWN WONTHLY!
YENTRE EN EL SORTEO MENSUAL.
PARA SER UNO DE LOS CINCO GANADORES DE 4500?

ENTER BY COMPLETING A SHORT SURVEY WITHIN DRE WEEK AT: www.lowns.com/auruny Y O U R I D W 166847 194852 573887

A TANK MARKET



# Manuela's Cleaning Services

Residentall/Commercial Cleaning

11122 West Cave Blvd Dripping Springs, Texas 78620 Phone: 512-203-2228

Belvedere

Invoice 120

Send payment to:

For:

Manuela's Cleaning Services 11122 West Cave Blvd Dripping Springs, TX 78620 Belvedere Amenity Center Payment is due upon receipt of this invoice

### DESCRIPTION

The following cleaning services were performed at the Amenity Center ( MUD )on the following dates:

Sept 3

Sept 10

Sept 17

Sept 24

Pard cict+ 1399

Labor -4 Days @ 115.00

Totals: \$460.00

Please make payments to Manuela's Cleaning Services and mail to the address above. If you have any questions concerning this invoice, contact Manuela Bigley @ 512-203-2228, or e-mail at mlbigley1@yahoo.com. Thank you for your prompt payment.



## Manuela's Cleaning Services

Residentall/Commercial Cleaning

11122 West Cave Blvd Dripping Springs, Texas 78620 Phone: 512-203-2228

Belvedere

Invoice 121

Send payment to:

For:

Manuela's Cleaning Services 11122 West Cave Blvd Dripping Springs, TX 78620 Belvedere Amenity Center Payment is due upon receipt of this invoice

### DESCRIPTION

The following cleaning services were performed at the Amenity Center ( MUD )on the following dates:

Oct 1

0ct 8

Oct 15

Oct 22.

Oct 29

Pauch cictizaci

Labor -5 Days @ 115.00

Totals: \$575.00

Please make payments to Manuela's Cleaning Services and mail to the address above. If you have any questions concerning this invoice, contact Manuela Bigley @ 512-203-2228, or e-mail at mlbigley1@yahoo.com. Thank you for your prompt payment.



Invoice:

14405

\$894.86

Invoice Date:

07/01/2022

BILLTO

Belvedere Municipal Utility District

C/O Montoya & Monzingo, LLP P.O. Box 2029 Pflugerville, TX 78691

Phone:512-251-5668

PROPERTY ADDRESS

Belvedere Municipal Utility District 17400 Flagler Drive Austin, TX 78738

Pay This Amount:

INVOICE	TERMS	ACCOUN	T MANAGER
07/01/2022	Due on Receipt		Greg Alford
DESCRIPTION			PRICE
#21556 - Trail Maintenance Co	ntract July 2022	Subtotal:	\$894.86
		Sales Tax (.00%)	\$0.00
		INVOICE TOTAL:	\$894.86

Paud Cleff 1400, 10/3/1/22 Duca 11/21/1/22

Please use the new remittance address listed below when submitting payment:



Invoice:

14683

Invoice Date:

08/01/2022

**BILL TO** 

Belvedere Municipal Utility District C/O Montoya & Monzingo, LLP P.O. Box 2029 Pflugerville, TX 78691

Phone:512-251-5668

PROPERTY ADDRESS

Belvedere Municipal Utility District 17400 Flagler Drive Austin, TX 78738

INVOICE	TERMS	ACCOUN	IT MANAGER
08/01/2022	Due on Receipt		Greg Alford
DESCRIPTION			PRICE
#23450 - Trail Maintenance Contract Augus	t 2022	Subtotal:	\$975.30
		Sales Tax (.00%)	\$0.00
		INVOICE TOTAL:	\$975.30
		Pay This Amount:	\$975.30
Fuel Surcharge		Subtotal:	\$975.30

INVOICE TOTAL: \$975.30
Pay This Amount: \$975.30

Sales Tax (.00%)

Pund de HUD 10/2 /22 Recollection

\$0.00

Please use the new remittance address listed below when submitting payment:



Invoice:

15107

Invoice Date:

09/01/2022

### **BILL TO**

Belvedere Municipal Utility District C/O Montoya & Monzingo, LLP P.O. Box 2029

Pflugerville, TX 78691

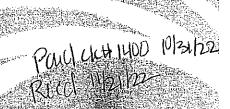
Phone:512-251-5668

### PROPERTY ADDRESS

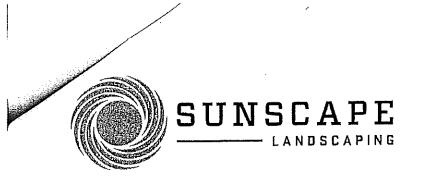
Belvedere Municipal Utility District 17400 Flagler Drive Austin, TX 78738

INVOICE	TERMS	ACCOUN	T MANAGER
09/01/2022	Due on Receipt	<del></del>	Greg Alford
DESCRIPTION			PRICE
#23747 - Trail Maintenance Contrac	t September 2022		\$1,021.97
Fuel Surcharge			\$38.83
		Subtotal:	\$1,060.80

Sales Tax (.00%) \$0.00
INVOICE TOTAL: \$1,060.80
Pay This Amount: \$1,060.80



Please use the new remittance address listed below when submitting payment:



Invoice:

15406

Invoice Date:

10/01/2022

BILLTO

Belvedere Municipal Utility District C/O Montoya & Monzingo, LLP P.O. Box 2029 Pflugerville, TX 78691

Phone:512-251-5668

PROPERTY ADDRESS

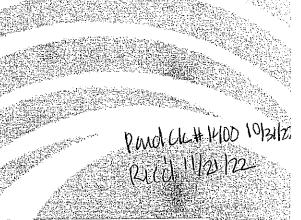
Belvedere Municipal Utility District 17400 Flagler Drive Austin, TX 78738

10/01/2022	Due on Receipt	Greg Alford
DESCRIPTION		PRICE

As of 12/1/2022, per the request of Belvedere MUD and Belvedere HOA, the full amount invoiced to MUD and HOA was split 50/50 between MUD and HOA.

Belvedere MUD is paying \$2,497.97 per month for services performed at Belvedere HOA.

Subtotal: \$1,021.97
Sales Tax (.00%) \$0.00
INVOICE TOTAL: \$1,021.97
Pay This Amount: \$1,021.97



Please use the new remittance address listed below when submitting payment:

October 19, 2022

Invoice Number: Account Number: 0023313101922 8260 16 101 0023313

Security Code:

4931

Service At:

17400 FLAGLER DR AUSTIN TX 78738-7663

Contact Us

Visit us at SpectrumBusiness.net Or, call us at 1-866-519-1263

Summary Service from 10/19/22 through 11/18/22 details on following pages	
Previous Balance	106.54
Payments Received -Thank Youl	-106.54
Remaining Balance	\$0.00
Spectrum Business™ TV	84,98
Other Charges	21.00
Taxes, Fees and Charges	0.56
Current Charges	\$106.54
YOUR AUTO PAY WILL BE PROCESSED 11/06/22	
Total Due by Auto Pay	\$106.54

**Auto Pay Notice** 

#### **NEWS AND INFORMATION**

NEWI We just increased our starting speeds to 300 Mbps. Call 1-866-634-1154 to find out how your business can benefit from faster internet speeds for the same great pricel

Call 1-877-787-1657 to get the best mobile service at the best price for your business. Ask how you can save up to 60% on two mobile lines!



Thank you for choosing Spectrum Business.

We appreciate your prompt payment and value you as a customer.

Auto Pay. Thank you for signing up for auto pay. Please note your payment may be drafted and posted to your Spectrum Business account the day after your transaction is scheduled to be processed by your bank.



4145 S. FALKENBURG RD RIVERVIEW FL 33578-8652 8260 1600 NO RP 19 10202022 NNNNNNNN 01 987852

BELVEDERE HOA PO BOX 2029 PFLUGERVILLE TX 78691-2029 October 19, 2022

**BELVEDERE HOA** 

Invoice Number:

0023313101922

Account Number: 8260 16 101 0023313

Service At:

17400 FLAGLER DR

AUSTIN TX 78738-7663

Total Due by Auto Pay

\$106.54

CHARTER COMMUNICATIONS PO BOX 60074 CITY OF INDUSTRY CA 91716-0074



BELVEDERE MUD PO BOX 2029 PFLUGERVILLE TX 78691-2029 Page: Issue Date: Account Number: 1 of 3 Oct 22, 2022 312935378

We've updated your Service Agreement terms, including the arbitration clause, effective 12/1/22. By continuing to use our services, you agree. (See att.com/CSA and end of bill).

Want to stop receiving paper bills and enjoy the convenience of paperless billing? Enroll at att.com/paperless

Managing your AT&T bills, products, and services on the go? It's a snap with myAT&T. Go to att.com/myatt to sign in or sign up.



Acco	unt summary		
Your la	ast bill		\$137.94
Payment, Oct 14 - Thank you!		-\$137.94	
Remaining balance		\$0.00	
Servi	ce summary		· · · · · · · · · · · · · · · · · · ·
	Internet	Page 2	\$69.89
S. Par	Phone	Page Z	\$66.66
Total services			\$136.55

Total due \$136.55
AutoPay is scheduled to debit your bank account on Nov 13, 2022

Recci 10/21/22 Parch EFT 11/13/22

Ways to pay and manage your account:

myAT&T app iPhone and Android

att.com/pay

Ordering, billing or support 800,321,2000 TTY:800.551,5111



BELVEDERE MUD PO BOX 2029 PFLUGERVILLE TX 78691-2029 AutoPay of \$136.55 is scheduled for Nov 13, 2022

Account number: 312935378

ÀT&T PO BOX 5014 CAROL STREAM, IL 60197-5014



# Manuela's Cleaning Services

Residental/Commercial Cleaning

11122 West Cave Blvd Dripping Springs, Texas 78620 Phone: 512-203-2228

Belvedere

Invoice 122

Send payment to:

For:

Manuela's Cleaning Services 11122 West Cave Blvd Dripping Springs, TX 78620 Belvedere Amenity Center Payment is due upon receipt of this invoice

#### DESCRIPTION

The following cleaning services were performed at the Amenity Center (MUD) on the following dates:

Nov 5

Nov 12

Nov 19

Nov 26

Labor -4 Days @ 115.00

Totals: \$460.00

Please make payments to Manuela's Cleaning Services and mail to the address above. If you have any questions concerning this invoice, contact Manuela Bigley @ 512-203-2228, or e-mail at mlbigley1@yahoo.com. Thank you for your prompt payment.

Recal 147/12 Pard CK#1401 12/14/122 NNNN



Questions? Call 888-554-4732

Monday through Friday, 8 a.m. - 5:30 p.m.

Report an outage: 888-883-3379 pec.coop Se habla Español



Member-owned since 1938 Not-for-profit

Account #:

3000095631

Member Name:

BELVEDERE **HOMEOWNERS** 

**ASSOCIATION** 

Director District: 5

Bill Date:

10/28/2022

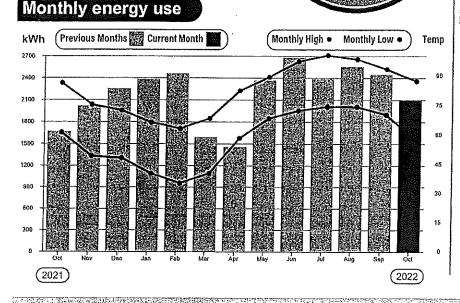
This bill does not reflect payments after 10/28/2022.

Total energy use

last month

Charge detail found on the back of this page.

Service Address: 17400 FLAGLER DRIVE



### Energy comparison

Total energy use this month

2,096 kWh \$226.84 2.449 kWh

Total energy use this month last year \$258.73

1,672 kWh

Average daily use and temp this month



### IMPORTANT MEMBER INFORMATION

The Transmission Cost of Service (TCOS) Pass-Through Charge, which is reevaluated twice per year, will remain unchanged this period. It recovers transmission access charges set by the Public Utility Commission of Texas and is passed through directly to members. Learn more at pec.coop/TCOS.

Pauci EFT 11/13/12

KEEP THIS STATEMENT FOR YOUR RECORDS
PLEASE DETACH AND RETURN BOTTOM PORTION WITH YOUR PAYMENT - WHEN PAYING IN PERSON BRING ENTIRE STATEMENT



Pedernales Electric Cooperative PO Box 1 • Johnson City, TX 78636

**Bill Date** Account #

10/28/2022 3000095631

AutoPay Amount - DO NOT PAY Bank Draft on 11/18/2022

\$245.56

Check this box to opt in to PEC Power of Change!

One time donation

Recurring donation

Kiosk barcode



Mail payment to:

Pedernales Electric Cooperative, Inc. PO Box 1

Johnson City, TX 78636-0001

4 692 BELVEDERE HOMEOWNERS ASSOCIATION

PO BOX 2029 PFLUGERVILLE TX 78691-2029

Արգիսիսների հումի արևանի արևանի հայանականին անականին հայանական հայանականին հայանական հայանական հայանական հայանա



# INVOICE

Invoice:

14463

Invoice Date:

06/30/2022

#### **BILL TO**

Belvedere Municipal Utility District C/O Montoya & Monzingo, LLP P.O. Box 2029 Pflugerville, TX 78691

Phone:512-251-5668

#### **PROPERTY ADDRESS**

Belvedere Municipal Utility District 17400 Flagler Drive Austin, TX 78738

TERMS	ACCOU	NT MANAGER
Due on Receipt		Greg Alford
$\{q_i\}/\epsilon$		PRICE
edere MUD	Subtotal:	\$11,628.47
stall a swale along the south side of	Sales Tax (.00%)	\$0.00
_	INVOICE TOTAL:	\$11,628.47
Blackstar Gravel is placed to create the	Pay This Amount:	\$11,628.47
	and the state of t	Due on Receipt  edere MUD  Subtotal:  stall a swale along the south side of he full length of the road, from /existing culvert by the pool fence.  Blackstar Gravel is placed to create the

Erosion fabric will be laid before the Blackstar Gravel is placed to create the swale. In addition; concrete catch swells will be constructed on the playground side to help push the flow through 8" corrugated galvanized drain pipe under the road to the drainage channel. Upon completion, the road will be scraped with the a slight "grade" towards the North, away from the playground. In addition; the drainage channel located behind and to the side of the pool area will be cleaned out of all debris and submitted buildup.

Pudau 1402 1218/2 Williams



BELVEDERE MUD PO BOX 2029 PFLUGERVILLE TX 78691-2029 Page:

Issue Date:

1 of 3

Account Number:

Oct 22, 2022 312935378

We've updated your Service Agreement terms, including the arbitration clause, effective 12/1/22. By continuing to use our services, you agree. (See att.com/CSA and end of bill).

Want to stop receiving paper bills and enjoy the convenience of paperless billing? Enroll at att.com/paperless

Managing your AT&T bills, products, and services on the go? It's a snap with myAT&T. Go to att.com/myatt to sign in or sign up.



	•
	\$137.94
	-\$137.94
	\$0.00
Page 2	\$69,89
Page 2	\$66.66
	\$136.55
	-

Recci 10/31/22 Panel ET 11/13/22

Total due

\$136.55

AutoPay is scheduled to debit your bank account on Nov 13, 2022

Ways to pay and manage your account:

myAT&T app
iPhone and Android

att.com/pay

Ordering, billing or support 800.321.2000 TTY:800.651.5111



Questions? Call 888-554-4732

Monday through Friday, 8 a.m. - 5:30 p.m.

Report an outage: 888-883-3379

pec.coop Se habla Español

AUTOPAY AMOUNT

\$240.65

Paid By Bank Draft
12/18/2022

Member-owned since 1938 nonprofit

Account #: 30

3001549599

Member Name: BELVEDERE MUD

Director District: 5

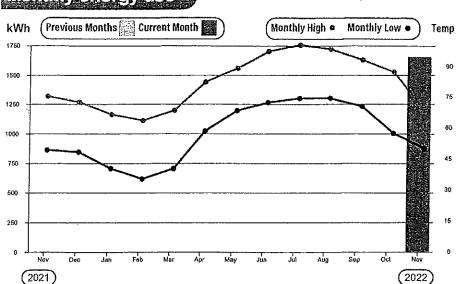
Bill Date:

11/29/2022

Service Address: 17400 FLAGLER DRIVE

This bill does not reflect payments after 11/29/2022. Charge detail found on the back of this page.

## Monthly energy use



### Energy comparison

Total energy use this month

1,659 kWh Total energy use last month

0 kWh \$.00

Total energy use this month last year

Average daily use r and temp this month

0 kWh \$.00

79 kWh/Day

59°

#### IMPORTANT MEMBER INFORMATION

Pay your bill your way! PEC offers a variety of payment options to meet the needs of any member. You can even save every month with paperless, automatic payments. Learn more at pec.coop/pay.

Paul EFT 1418/2 Rud 147/22

KEEP THIS STATEMENT FOR YOUR RECORDS
PLEASE DETACH AND RETURN BOTTOM PORTION WITH YOUR PAYMENT - WHEN PAYING IN PERSON BRING ENTIRE STATEMENT



Pedernales Electric Cooperative PO Box 1 ● Johnson City, TX 78636

Bill Date
Account #
AutoPay Amount - DO NOT PAY
Bank Draft on 12/18/2022

11/29/2022 3001549599 \$240.65

Check this box to opt in to PEC Power of Change!

One time donation

Recurring donation

Kiosk barcode



Mail payment to:

Pedernales Electric Cooperative, Inc. PO Box 1 18 Johnson City, TX 78636-0001

Johnson City, TX 78636-0001

յատրկարդինգովիիկիրիակիրակիրություն

7735 1 AB 0.491 BELVEDERE MUD PO BOX 2029

5 7735 C-29

PFLUGERVILLE TX 78691-2029

<sup>ֈ</sup>որվը<sup>ը</sup> անագորդությունների հետարանում անագործությունների հ

#### TRAVIS CENTRAL APPRAISAL DISTRICT

850 E. Anderson Lane P.O. Box 149012 Austin, TX 78714

Belvedere MUD P.O. Box 2029 Pflugerville, TX 78691

	Invoice Date	Invoice Number
Invoice	12/14/2022	8014

Jurisdiction ID: 1K

5d/16d/76d/7/12/ (()

You may remit via ACH to Wells Fargo Bank, N.A., account #7556188477, ABA #111900659. Please send ACH remittance information to Lmann@tcadcentral.org.

To submit via wire, please contact the Finance Department.

Invoice Date	Charge Code	Description	Amount	
12/1/2022	Appraisal Revenue	Appraisal Fees	\$75	54.29
Due Date: 1/13/20	)23		Total: \$7	754.29

8014

12/14/2022

Invoice Date	Charge Code	Description	Amount
12/1/2022	Appraisal Revenue	Appraisal Fees	\$754.29

1K

Belvedere MUD

Total Due:

\$754.29

Due Date:

1/13/2023

Amount Remitted:

Please remit payment at your earliest convenience. Should you have any questions, please contact Leana H. Mann at (512)834-9317 Ext. 405 or by e-mail at Lmann@tcadcentral.org.



BELVEDERE MUD PO BOX 2029 PFLUGERVILLE TX 78691-2029 Page:

Issue Date: Account Number: 1 of 3 Dec 22, 2022

312935378

Want to stop receiving paper bills and enjoy the convenience of paperless billing? Enroll at att.com/paperless

Managing your AT&T bills, products, and services on the go? (t's a snap with myAT&T. Go to att.com/myatt to sign in or sign up.

Total due
\$136.55
AutoPay is scheduled for:
Jan 13, 2023

Account summary		
Your last bill		\$136.55
Payment, Dec 14 - Thank	you!	-\$136,55
Remaining balance		\$0,00
Service summary		
(Internet	Page 2	\$69.89
Phone	Poge 2	\$66.66
Total services		\$136.55

Rec'd 12/20/22 Paud EFT 1/13/23

Total due

\$136.55

AutoPay is scheduled to debit your bank account on Jan 13, 2023

# **Property Tax Statement**

TIA RECEIVABLE BALANCE 'R' REPORT	CE 'R' REPOR	f↔	OVERALL C OVERALL C FROM 10/01/	OVERALL COLL/DIST REPORT FROM 10/01/2022 TO 12/31/2022 ALL OTHERS		DATE 01. YEAR FROM 0000 TO 2022	DATE 01/03/2023 TO 2022		PAGE 100		
BELVE	BELVEDERE MUD		1		1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		:			
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								•	:	1 1 1 1 1 1	_

Outstanding property true receivable

Debt Service

2016=.31

2012=299,925.30

2012=160,294.5 Current tawrate on operations: 0775 operations: 145 ord service: 145 total: 1225

299,925.61

30 | Operating 294,58 202 | 202=160,294.59

# 



#### Proposal for First Service Residential TX Playground Safety Audit

August 26, 2022

MEGAN MAEDGEN, CMCA, Belvedere General Manager 17400 Flagler Drive | Austin, TX 78738 Direct 512.264.0560 Email <a href="mailto:megan.maedgen@fsresidential.com">megan.maedgen@fsresidential.com</a> www.fsresidential.com

Good afternoon Megan,

Thank you for your request of services PlaySafe, LLC can provide. The following is a partial list of services we can provide and the associated costs. We look forward to working with you on your efforts.

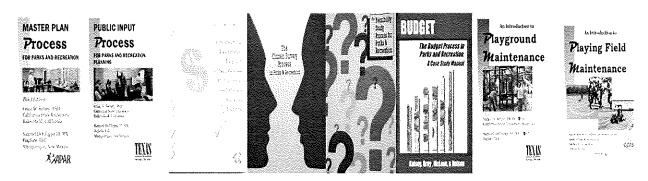
#### Playground Safety Audit

PlaySafe, LLC will conduct an inventory and audit of the playground equipment, surfacing, and installation of that equipment at: 17400 Flagler Drive, Austin TX 78738. ASTM/CPSC requirements that would require the disassembling or alternating of the equipment/footings (for example Structural Integrity and Stability and Swing Impact Testing) are not tested. A team of National Parks and Recreation Certified Playground Safety Inspectors will conduct the audit. We will produce an inventory of the equipment and conduct an audit of the equipment to determine compliance with the ASTM F1487-21, the ADA, & CPSC 325 (excluding preschool). PlaySafe, LLC has purchased, and our staff has trained with, an ASTM F1292/F3313 Standards Committee approved Free Fall Surface Testing System. This testing system enables PlaySafe, LLC to examine your surfacing on site to detect whether it complies with the ASTM F1292/F3313.

Cost: \$1700. Please add an additional \$85.00 if using a credit card.

PlaySafe, LLC staff members have dedicated our professional and personal lives to enhancing the lives of children. We have presented a unique and thorough auditing program proposal that has worked for communities (such as: Phoenix AZ, Dallas TX, and San Francisco CA) and school districts (for example: El Paso TX ISD, Los Angeles CA, Albuquerque NM, and Broward County FL) for over 25 years. All audits will be conducted by a team of inspectors (we have 4 CPSI Inspectors). Our promise to you is that we will dedicate all of our resources to complete your safety audits on time and in detail! PlaySafe, LLC has been inspecting playgrounds since 1997 (25 years). PlaySafe, LLC staff have been playground inspectors for the following amount of time; Butch DeFillippo (28 years), Chris Orlando (19 years), Dr. Nancy White (17 years), & Cherie DeFillippo (16 years).

Sincerely,
Sam Defillippo
Sam "Butch" DeFillippo, MA, CPRP, NRPA Certified Playground Safety Inspector (CPSI),
Managing Partner



Examples of the books written by PlaySofe, LLC staff on issues such as Master Plans, Economic Impact Studies, Feasibility Study Process, & Citizen Surveys for the National Recreation & Parks Association, the American Association of Leisure & Recreation, & the American Alliance for Health, Physical Education, Recreation & Dance

#### **General Information:**

PlaySafe, LLC payment terms are 30 days or a 1.5-% late fee will be charged. If there are any additional costs for business for a project, it will be necessary to add them to this quote. Pricing is available for calendar year 2022/2023.

PlaySofe, LLC has Professional Liability, Worker's Compensation, General Liability, and Auto Liability Insurances.

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# Names and qualifications of PlaySafe, LLC team members that can be assigned to this project:

#### Sam (Butch) DeFillippo: Managing Partner/Inspector

Certified Playground Butch has 35+ years of experience in the parks and recreation field. He holds both a BA and MA degree in Parks and Recreation Administration. He has qualified for the following certifications: NRPA Certified Playground Safety Inspector (CPSI), National Recreation and Parks Association Certified Parks and Recreation Professional (CPRP), Stranco Public Pool Operator Certification, TRIAX 2000/2010 Surface Impact Tester (ASTM F1292/F3313 compliant), and a NPCAI Recreation Installation Specialist. He serves as a legal expert witness, an advisor to numerous national organizations and committees, a consultant to hundreds of government agencies, non-profit organizations and to the private sector. Butch is quoted frequently in the profession's national publications.

#### Cherie DeFillippo: Business Manager/Managing Member/Inspector

Cherie has a Bachelor of Arts in Community Health and has an extensive background working in the recreation field. Cherie has worked for City Parks and Recreation Departments, Paradise Hills Country Club, and local childcare facilities. Cherie has more than 30 years working with children and as the owner of her own business has successfully managed an office for 20 years. Cherie is a NRPA Certified Playground Safety Inspector and she passed the training program for the TRIAX 2000/2010 Surface Impact Tester in compliance with the ASTM F1292/F3313, and a NPCAI Recreation Installation Specialist.

#### Chris Orlando: Production Coordinator/Inspector

Chris has 28+ years' experience in parks and recreation and government agency work. He is trained in the parks and recreation field and is certified as a NRPA Playground Safety Inspector (CPSI) as well as TRIAX 2000/2010 Surface Impact Tester (ASTM F1292/F3313 compliant). He is an expert on parks, recreation, sport, aquatic and facility computer simulations and design work and provides PlaySafe, LLC with final product documents, reports, concept plans and design elements and is a NPCAI Recreation Installation Specialist

#### Dr. Nancy White: Special Projects-Planning Services/Inspector

Certified Playground Safety Impector Nancy has 35+ years' experience in the parks and recreation field. She holds a BA, MA and PhD degrees in Parks and Recreation as well as a MPA degree in Public Administration. She is a National Recreation and Parks Association Certified Parks and Recreation Professional (CPRP). Dr. White is an expert on risk management prevention in the parks and recreation field as well as in aquatics. She is a consultant from PlaySafe, LLC to hundreds of agencies and is sought after as a frequent presenter of workshops in the parks and recreation risk management field. Dr. White is a NRPA Certified Playground Safety Inspector and has passed the training program for the TRIAX 2000/2010 Surface Impact Tester in compliance with the ASTM F1292/F3313.

#### Jimmy DeFillippo: Inspector

Jim worked as a municipal Deputy Chief, Fire Station Captain, Emergency Medical Services Division Captain, Captain of EMS Training, Fire Fighter/Paramedic, and Fire Fighter/EMT for over 19 years. Jim has passed the training program for the TRIAX 2000/2010 Surface Impact Tester in compliance with the ASTM F1292/F3313

#### S. Christopher DeFillippo Esq.: Inspector

Chris has a Juris Doctor degree and a B.A in Politics and Government and has coached youth sports, Chris has passed the training program for the TRIAX 2000/2010 Surface Impact Tester in compliance with the ASTM F1292/F3313.

#### **Terry Boning Inspector**

Terry is a retired Elementary Physical Education Teacher with more than 25 years working for public schools. Terry has a Bachelor of Science in Physical Education and Health. He worked for a city Parks and Recreation Department for several years (two of them as the director of the summer recreation program a middle school) and was the director of a country club swimming pool. Terry has passed the training program for the TRIAX 2000/2010 Surface Impact Tester in compliance with the ASTM F1292/F3313.

#### Dr. Craig Kelsey: Team Leader-Planning Services/Inspector

Craig has 40+ years experience in the parks and recreation planning field. He holds a BS, MS and PhD degrees in Parks, Recreation and Environmental planning. He has been the lead on hundreds of parks and recreation planning studies for PlaySofe, LLC and is noted for his development of the Q-SORT focus group citizen involvement model and the ENVIROPLAN community planning approach. Dr. Kelsey is the author of professional research and application articles found in the professional literature as well as textbooks used both by planning specialists and university courses. He is the author of *The Parks and Recreation Master Plan Process*, the most quoted text in the field. Dr. Kelsey has passed the training program for the TRIAX 2000/2010 Surface Impact Tester in compliance with the ASTM F1292/F3313.

#### Mary Boning Inspector

Mary earned her Bachelor of Science in Nursing and Master of Arts in Adult Education. Mary worked in the health care industry for over 38 years. Mary has been a nurse, coordinated education programs, and the director of hospital departments. Mary has passed the training program for the TRIAX 2000/2010 Surface Impact Tester in compliance with the ASTM F1292/F3313.

#### Brian Cox: CAD Drafter/Inspector

Brian is the CAD and 3D graphic artist for PlaySofe, LLC. He holds a BA degree in Architecture and is an expert in AutoCAD, 3D Studio, VIZ and other architecture, design and simulation programs. He is TRIAX 2000/2010 Surface Impact Tester trained (ASTM F1292/F3313 complaint) and assists Chris with parks, recreation, sport, aquatic and facility computer simulations and design work.

#### Dr. Todd Seilder: Special Projects-Planning Services

Todd has 20+ years experience in the sports management and planning field. He holds a BS, MS and PhD in Physical Education and Sports Administration. He is the Past President of the Sport and Recreation Law Association (SRLA) and has also served as its Executive Director. Dr. Seilder is an expert on risk management, injury prevention, legal issues and sport and recreation facility planning and management. He is the co author of the most widely used text in the physical education and sport facility planning field. With PlaySafe, LLC he is a widely sought-after workshop presenter and planning consultant.

#### Clientele

PlaySafe, LLC has conducted services for the following agencies. Please feel free to contact any of our clients:

#### Attorneys

Davis W. Smith Attorney at Law TX\*Tribler, Orpett & Meyer P.C IL\*Ferguson Firm Attorneys at Law TX\* Eaton, Martinez & Hart Attorneys at Law NM\* Plattner Verderame, PC AZ\* Zachar Law Firm AZ\* Narvaez Law Firm NM\* Mickey Barnett Law Offices NM\* Robert G. Marcotte - Attorney at Law NM\* Matthew L Riggs, At Law AZ\* Breyer Law Offices AZ\* Low, Ball & Lynch CA\* Thomas, Thomas, & Hafer PA\*The Law Office of Frederick W Nessler IL\* Davis Rothwell Earle & Xóchihua WA\*Kip and Christian PC UT\*Hogan & Chapman, P.L. FL\* Hinshaw & Clubertson, LLP MA

#### Cities, Counties, Other Government Agencies

City of New Orleans LA\*County of Los Angeles CA\*City of Bakersfield CA\*City of Gallup NM\*City of Phoenix AZ\*City of Dallas TX\*City of Plano TX\*Town of San Anselmo CA\*City of Flagstaff AZ\*San Bernardino County CA\*Wheaton Park District IL\*City of Cupertino CA\*City of Springfield IL\*City of Burbank, CA\* Incline Village General Improvement District NV\*City of Peoria AZ\*City of Loma Linda CA\*Walla Walla County Department of Community Health\*City of San Diego CA\*Bernalillo County NM\*Bolingbrook Park District IL\*City of Clovis NM\*Metro Parks Tacoma WA\*City of Rio Rancho NM\*Cooperative Educational Services NM\*Village of Corrales NM\*City of Agoura Hill CA\*City of Bell Gardens CA\*Pima County AZ\*Fairplex County Los Angeles CA\*Winnetka Park District IL\*City of Glendora CA\*City of Indio CA\*Jurupa Area Recreation and Park District CA\*City of Ankeny IA\*City of Ojai CA\*City of Foley AL\*City of San Fernando CA\*City of San Gabriel CA\*City of South El Monte CA\*City of Temecula CA\*City of Temple City CA\*City of Westlake Village CA\*Civil Service Commission Pueblo CO\*County of San Bernardino CA\*City of Santa Fe NM\*Gurnee Park District IL\*City of Santa Clarita CA

#### Playground Equipment and Surfacing Representatives and Companies

Triple M AZ, NM, CA, CO\*Miracle Playgrounds AZ CA\*Churchich Recreation LLC, CO, NM\*Play! NM\*Exerplay Incorporated AZ, CA, NM TX\*PlayWell TX, NM\*GameTime AL\*Pyramide USA, Inc MD\* Detailed Play Systems NJ\*Brewer's Ledge, Inc MA\*Great Western WY\*Recreation Consultants of Texas TX\*Robertson Industries Inc AZ, CA, NM\*Child Safe Products, Inc, AZ, FL, NY\*Cre8ate Play CA MN, NJ, NM, PA, TX\*Carpathian Industries NJ\*IPEMA PA\*Superior GA\*Pebble-Flex, LLC NJ\*PlayMart\*INC Playgrounds KY\*Little Tikes Commercial MO\*The Fibar Group, LLC NY

#### **Military Facilities**

Fort Bliss TX\* Fort Hood, TX\*White Sands Missile Range NM\*Kirtland Air Force Base NM\*Red River Army Depot TX\* Camp Pendleton CA\*Harlingen Air Force Base TX

#### Homeowners Associations/Property Management

Ascot Home Owners Association CA\*Carden Arbor View Schools CA\*Assistance League of Antelope Valley CA\*Compass Management Group CA\*Coyote Creek Home Owners Association CA\*Expressions Home Owners Association CA\*Fairway Crest Home Owners Association CA\*Concord Capital Assets CA\*New Horizons Home Owner's Association CA\*Santa Elena Home Owners Association CA\*Santa Teresa Home Owners Association CA\*Summerfield Home Owners Association CA\*Harvard Square Maintenance Association CA\*Terraces Home Owners Association CA\*Village Grove Home Owners Association CA\*Vintage Hills PCA CA\*Vistara Home Owners Association CA\*Condominium Management Services CA\*New Horizons Homeowners Association CA\*Keystone Pacific Property Management Incorporated CA\*Glendora Springs Home Owners Association CA\*Home Garden Home Owners Association CA\*Mountain View Park Home Owners Association CA\*Warren Properties NM\* Fairway Crest Home Owner

#### Schools/Childcares

Los Angeles Unified School District CA\*El Paso Independent School District TX\*Chicago Public Schools IL\*Campbell Hall School CA\*Garland Independent School District TX\*Chadwick School CA\*Chapter One/Kid's Corner CA\*Crane School CA\*Fresno Christian Schools CA\*Alamogordo Public Schools NM\*Good Samaritan Hospital CA\*Bernalillo Public Schools NM\*Santa Fe Public Schools NM \*La Mesa United Methodist Children Center CA\*Montessori Center School of Santa Barbara CA\*San Francisco School CA\*St. David's Private School CA\*Holy Ghost Catholic School NM\* North Side Christian Early Childhood Development Center CA\*Pacifica Co-Op Nursery School CA\*Peninsula Heritage Preschool CA\*Grace Baptist Church CA\*St. Peters Episcopal Church & Preschool CA\* Los Lunas Public Schools NM\*Trinity Lutheran Preschool and Church CA\*Sonshine Factory CA\*Clovis Municipal Schools NM\*Pilgrim Children Center CA\*Frisco Independent School District TX\*McKinney Independent School District TX\*Valley Beth Shalom Nursery School CA\*Fullerton School District CA\*Santa Fe Kids Company CA\*Kids Town CA\*NW YMCA Pima County AZ\*Montessori Academy CA\*The Broadoaks Children's School of Whittier College CA\*Alamogordo Public Schools, NM\*St. Luke Lutheran Preschool & Kindergarten NM\*Auraria Higher Education Center Early Learning Center CO\*Mesilla Valley Christian Schools NM\*LA Mission College Child Development Center CA\*Dallas Independent School District TX\*Catholic Charities of the Archdiocese of Newark NJ\*Socorro Independent School District TX New Mexico School for the Visually Handicapped\*University of New Mexico\*Nova Southeastern University FL\*USAA AZ CO FL TX

#### **Installation Companies**

Jon Del Construction CA\*Geoscene Construction Incorporated CA\*Castello Incorporated CA\* Henneberger Construction TX\*Hansen & Prezzano Builders, LLC NM, CA\*Banes General Contractors TX\* West Point Contractors AZ\* Gordon Construction NM\* Silverton Construction TX\* NLR Builders TX\*The Sambrano Corp TX\* Centex Homes CA\*Doose Landscape Inc CA\*GN Construction TX\*Court Concepts Inc CA\* The Hilltop NM\*Highland Enterprises NM\*Baca Trees NM\*Southwest Parks & Playgrounds TX\* DanTex Construction TX\*Southwest Growth TX\*Canaday & Company CA\*Smith & Butler Construction Inc CA\* FT James Construction TX\*Jan Car Construction TX\*Blair Hall Company TX\*Hunt Building Company CA, TX\*Longford Group, Inc., NV, NM

#### Other Agencies

Fuller Theological Seminary CA\*Presbyterian Ear Institute NM\*Portuguese Bend Beach Club CA\*El Paso Rehabilitation Center TX\*Chapman Companies NM\*New Mexico Department of Energy\*Eldorado Community Improvement Association NM\*City of La Palma CA\*MBA Interior Architecture NM\*California Joint Powers Insurance Authority\*Facility Management NM\*Stagecoach Stop RV Park NM\*National Recreation and Park Association Western Service Center CO\*Barnabas, Kane & Associates Landscape Architects, AZ\*Tierra Verde Industries CA\*McGann & Associates Inc AZ\*Darla Schleyer Interiors NM\*City of West Hollywood CA\*Desert Recreation District CA\*Amazement Square Children's Museum, VA\*Indian Health Services NM, AZ, MT, OR, OK\*San Francisco Giants\*San Diego Zoo CA\*Chicago Park District IL\*Tacoma Parks WA\*McDonalds IL\*U.S. Consumer Products Commission



#### PlaySafe, LLC is the 1st Associate Member of IPEMA

The following chart is intended to be a brief summary of PlaySafe, LLC staff's experience in the parks, recreation, and education planning field.

Parks and Recreation Master Plan	City of Gallup, NM		
Parks and Recreation Master Plan	Beaumont-Cherry Valley Recreation and Park District, CA		
Summer Camp/Recreation Program  Marketing Study	Belvedere-Tiburon Recreation Department, CA		
Parks and Recreation Master Plan	Cathedral City, CA		
Parks and Recreation Master Plan	Town of San Anselmo, CA		
Parks and Recreation Master Plan	City of North Logan, UT		
System Wide Park Plan	City of Bakersfield, CA		
Athletics Planning Study	City of Plano, TX		
System Wide Park Plan	Coachella Valley Rec & Park Dist., CA		
Parks and Recreation Master Plan	City of South Jordan, UT		
Parks and Recreation Master Plan	City of Clovis, NM		
Parks and Recreation Master Plan	City of Bakersfield, CA		
National Study of the Commercial Playground Industry	UBS Capital New York, NY		
Parks and Recreation Master Plan	City of Coachella, CA		
Parks and Recreation Master Plan	Cache County, UT		
Parks and Recreation Master Plan	City of Foley, AL		
Senior Games Economic Impact Study	Palm Desert, CA		
Elementary School Physical Education Curriculum Development Study	Santa Fe Public Schools, NM		
Survey of Community Residents	City of Rio Rancho, NM		
Parks and Recreation Master Plan	Coachella Valley Recreation & Park District, CA		
Economic Impact Study	International Balloon Fiesta		
Parks and Recreation Master Plan	City of Santa Fe, NM		
Assessment of Citizen Perspectives	State of New Mexico		
Regional Softball Economic Impact Study	City of Clinton, UT		
Parks and Recreation Master Plan	City of Rio Rancho, NM		
SCORP	State of New Mexico		
Parks and Recreation Master Plan	Bernalillo County, NM		

PROJECT	AGENCY
Private Sector Recreation Study	State of New Mexico
Parks and Recreation Master Plan	City of Hyrum, UT
Economic Impact Study Junior Olympics	City of Mission Viejo, CA
Parks and Recreation Master Plan	City of Smithfield, UT
Parks and Recreation Master Plan	City of Logan, UT
Economic Impact Study Master's Swimming	City of Mission Viejo, CA
Parks and Recreation Master Plan	City of Ogden, UT
Economic Impact Study	New Mexico State Fair
Parks and Recreation Master Plan	City of Moab, UT

#### Awards and Accomplishments

During their professional careers, PlaySafe, LLC staff members have been awarded or have achieved numerous accomplishments. They include (but are not limited to):

- Presenting at hundreds of national (for example; National Recreation and Parks Association Congress, NRPA National Executive Development School), regional (such as; NRPA Southwest and Midwest), and state conferences (such as; American Society of Safety Engineers Annual Health & Safety, New Mexico Recreation & Park Association, California Park & Recreation Society, Cooperative Educational Services and Business Community Representatives, Arizona Parks and Recreation Association, California Joint Powers Insurance Authority, New Mexico Association of Health, PE, Recreation and Dance, Texas Recreation and Parks Society, Utah Recreation and Park Association, Texas Parks & Wildlife Associations, Texas Head Start Association)
- Member and Chair of the NRPA Certified Playground Safety Inspector Exam Review Committee, Members of: NRPA Advisory Board, National Executive Development School Advisory Board, National Risk Management & Safety School Planning Committee, and CPSI Playground Maintenance Service Course's Curriculum Task Force, Member of the International Playground Equipment Manufacturer Association Safety School
- Contributing as an interviewee for the Center for Injury Research and Policy at John Hopkins
- Contributed as a Stakeholder Reviewer for the National Resource Center for Health and Safety in Child Care, Performance Standards: Guidelines for Out-of-Home Child Care Programs
- State Certification Board Members and Chair
- Member of the Synthetic Turf Council Education Committee
- Dean of California State Bakersfield, Full Professorships at the University of New Mexico, Utah State, University of South Dakota, California State Universities; Bakersfield, Fresno and Northridge, Director of Parks and Recreation Department
- Winners of national and state awards (NRPA PIN Department Program Brochure Recognition, NMRPA - Park/Trail/Bike Paths Design Award, Outstanding Grounds Maintenance Award Winner, Recipient of the Duke Jory Scholarship Outstanding Program Award Winner Youth Basketball, recipient of the Outstanding Young Professional Award)
- As volunteers worked with youth and adults as baseball, football, soccer and swimming coaches, Head Evaluator of the New Mexico Special Olympics State Games, Regional Chair of the Utah State Games and leaders in the boy scouts and car clubs
- Professional coaches
- Authors of frequent university text books, articles and papers

We at PlaySofe, LLC Really Care! If you have any questions or if you would like additional information, please call me at 505. 250.5689.

Phone: 505.899.9532 \* Toll Free: 1.87PlaySafe
Web Site: http://www.play-safe.com \* E-mail: playsafe@play-safe.com

#### **Equipment Example Provided Below**

Site: Your School

City/State: Your Town / TX

Manufacturer: Little Tikes

Audited by: (PlaySafe)

C. DeFillippo & Dr. N. White

Height: 60"

Materials: Metal and Plastic

Surfacing: Unitary

Date of Audit: 1/1/22

Age of Intended Users: 5-12



# Name of Structure: Composite

Recommended Action #s: 1=Remove 2=Modify 3=Meet with manufacturer 4=Increase use zone 5=Install border material 6=Add/loosen surfacing 7=Maintain 8=Relocate 9=Repair or replace with correct materials

10=Special Instructions (See attached)

Structure	What does not meet requirements	Guideline #	Action # (1-9)
Composite	Surfacing is unitary and sand	ASTM: 13.2 CPSC: 4.5	7
	Use zone to wall is 69", to concrete is 71.5" and should be 72" or greater for stationary equipment	ASTM: 9.2.1 CPSC: 5.1.1	4/8
	Entanglement: Bolts on both ends of blue climber projects upward on a horizontal plane	ASTM: 6.4.2 CPSC: 9.4	1/2/9
	Protrusion: Legs of ships sale panel are protrusions	ASTM: 6.3 CPSC: 9.2	1/9

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#### Surfacing Example Provided Below

Requesting Agency: Happy Land

Address: 123 John Lane, Sunny, TX

Phone #: 555.865.3900

Test Site Address: Green Center

456 Happy Lane

Audited by: B. Cox and T. Boning

Type of equipment: Chin-up-bars

Type of surfacing: Unitary

Drop Height: 81"

Air Temperature: 42 degrees

Date of Audit / Time of Audit: 1/4/22/ 9:21 am

Date of Report: 1/6/22

Condition of Surfacing: Good/New



DROP AREA	Drop #1  G Force / HIC/ Velocity	Drop #2  G Force / HIC/ Velocity	Drop #3  G Force / HIC/ Velocity	Average G Force / HIC	Surfacing Temp.	Depth of Material	Does Surfacing Conform
	velocity	velocity	velocity			Before / After	?
A	54 / 195 / 23.2	57 / 208 / 23.1	64 / 238 / 23.2	60.5 / 223	40 degrees	Unknown	YES
В	51 / 172 / 23.2	54 / 185 / 23.2	56 / 188 / 23.0	55 / 186.5	40 degrees	Unknown	YES
С	54 / 184 / 23.2	58 / 195 / 23.2	61 / 210 / 23.2	59,5 / 202.5	38 degrees	Unknown	YES

PASS X

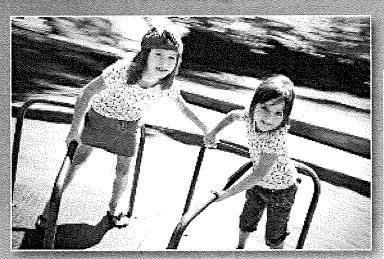
FAIL

The staff of PlaySofe, LLC tested the surfacing at the above mention playground using the Triax 2010 (Manufactured by Playground Clearing House, USA, Inc – Calibrated 1/3/22). This triaxial accelerometer measures impact in 3 dimensions and processes it into G force and HIC (Head Injury Criteria). These 2 measurements are the methods that the Consumer Product Safety Commission and ASTM International use to evaluate the surfacing under and around playground equipment. This system was formally approved in December 2018 by the ASTM F3313 Committee. Please read the CPSC and ASTM documents related to playground safety for more information. Specifically, read ASTM F3313, ASTM F1292, ASTM F1487, and the CPSC Handbook for Public Playground Safety 325. The results reported herein reflect the performance of the tested playground surface at the time of testing and at the temperature(s) and ambient conditions reported. Performance will vary with temperature, moisture content, and other factors.

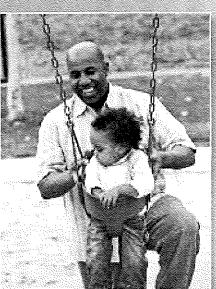
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# Public Playground Safety Handbook









U.S. Consumer Product Safety Commission
Saving Lives and Keeping Families Safe



#### U.S. CONSUMER PRODUCT SAFETY COMMISSION 4330 EAST WEST HIGHWAY BETHESDA. MD 20814

December 29, 2015

The U.S. Consumer Product Safety Commission's ("CPSC" or "Commission") *Public Playground Safety Handbook* was first published in 1981 under the name *A Handbook for Public Playground Safety*. The recommendations in the *Handbook* are focused on playground-related *injuries* and mechanical mechanisms of injury; falls from playground equipment have remained the largest single hazard pattern associated with playground use. Since the first edition, the Commission has included recommendations that playgrounds not be installed over concrete, asphalt, or paved surfaces to address serious head injuries due to falls from the equipment. Additionally, the Commission has made suggestions for commonly used loose-fill and unitary surfacing materials (*e.g.*, wood mulch, pea gravel, sand, gym mats, and shredded/recycled rubber mulch) that provide head impact attenuation and can mitigate the hazard presented by falls from playground equipment. Maintaining the focus on falls, the *Handbook's* surfacing recommendations are based on the surfacing material's energy absorbing effectiveness.

During the past 35 years, innovations in technology have led to new playground equipment and surfacing practices. Voluntary standards for equipment and impact attenuation for protective surfacing have evolved. The 2010 edition of the *Handbook*, the most recent version, still discusses common materials, but also covers new surfacing systems that are specifically designed and tested to comply with ASTM F1292, the voluntary standard for measuring impact attenuation of surfacing. Maintaining that focus, Section 2.4 of the *Handbook* identifies shredded/recycled rubber mulch as an "Appropriate Surfacing" product, given that this product can meet the impact attenuation requirements of ASTM F1292, as long as minimum depths of the material are maintained, as specified in Table 2 of Section 2.5. This notation is solely focused on the impact attenuation to minimize serious head injuries, and not on other aspects that may pose other risks, such as chemical exposure or ingestion.

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#### Handbook for Public Playground Safety

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#### 1. INTRODUCTION

In recent years, it is estimated that there were more than 200,000 injuries annually on public playgrounds across the country that required emergency room treatment. By following the recommended guidelines in this handbook, you and your community can create a safer playground environment for all children and contribute to the reduction of playground-related deaths and injuries.

#### 1.1 Scope

This handbook presents safety information for public play-ground equipment in the form of guidelines. Publication of this handbook is expected to promote greater safety awareness among those who purchase, install, and maintain public playground equipment. Because many factors may affect playground safety, the U.S. Consumer Product Safety Commission (CPSC) staff believes that guidelines, rather than a mandatory rule, are appropriate. These guidelines are not being issued as the sole method to minimize injuries associated with playground equipment. However, the Commission believes that the recommendations in this handbook along with the technical information in the ASTM standards for public playgrounds will contribute to greater playground safety.

Some states and local jurisdictions may require compliance with this handbook and/or ASTM voluntary standards. Additionally, risk managers, insurance companies, or others may require compliance at a particular site; check with state/local jurisdictions and insurance companies for specific requirements.

#### 1.2 Intended Audience

This handbook is intended for use by childcare personnel, school officials, parks and recreation personnel, equipment purchasers and installers, playground designers, and any other members of the general public (e.g., parents and school groups) concerned with public playground safety and interested in evaluating their respective playgrounds. Due to the wide range of possible users, some information provided may be more appropriate for certain users than others. The voluntary standards listed in 1.4.1 contain more technical requirements than this handbook and are primarily intended for use by equipment manufacturers, architects, designers, and any others requiring more technical information.

#### 1.3 What is a Public Playground?

"Public" playground equipment refers to equipment for use by children ages 6 months through 12 years in the playground areas of:

- · Commercial (non-residential) child care facilities
- Institutions
- Multiple family dwellings, such as apartment and condominium buildings
- Parks, such as city, state, and community maintained parks
- Restaurants
- Resorts and recreational developments
- · Schools
- · Other areas of public use

These guidelines are not intended for amusement park equipment, sports or fitness equipment normally intended for users over the age of 12 years, soft contained play equipment, constant air inflatable play devices for home use, art and museum sculptures (not otherwise designed, intended and installed as playground equipment), equipment found in water play facilities, or home playground equipment. Equipment components intended solely for children with disabilities and modified to accommodate such users also are not covered by these guidelines. Child care facilities, especially indoor, should refer to ASTM F2373 — Standard Consumer Safety Performance Specification for Public Use Play Equipment for Children 6 Months Through 23 Months, for more guidance on areas unique to their facilities.

#### 1.4 Public Playground Safety Voluntary Standards and CPSC Handbook History

- 1981 First CPSC Handbook for Public Playground Safety was published, a two-volume set.
- 1991 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment, ASTM F1292, was first published.
- 1991 Two-volume set was replaced by a single-volume handbook, which contained recommendations based on a COMSIS Corporation report to the CPSC (Development of Human Factors Criteria for Playground Equipment Safety).

- 1993 First version of voluntary standard for public playground equipment, ASTM F1487 — Standard Consumer Safety Performance Specification for Playground Equipment for Public Use, was published (revisions occur every 3 to 4 years).
- 1994 Minor revisions to the Handbook.
- 1997 Handbook was updated based on (1) staff review of ASTM F1487, (2) playground safety roundtable meeting held October 1996, and (3) public comment received to a May 1997 CPSC staff request.
- 2005 First version of voluntary standard for playground equipment intended for children under two years old, ASTM F2373 — Standard Consumer Safety Performance Specification for Public Use Play Equipment for Children 6 Months Through 23 Months, was published.
- 2008 Handbook was updated based on comments received from members of the ASTM F15 Playground Committees in response to a CPSC staff request for suggested revisions. Significant revisions are listed below.

#### 1.4.1 ASTM playground standards

Below is a list of ASTM technical performance standards that relate to playgrounds.

- F1487 Standard Consumer Safety Performance Specification for Playground Equipment for Public Use.
- F2373 Standard Consumer Safety Performance Specification for Public Use Play Equipment for Children 6 Months through 23 Months.
- F1292 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment.
- F2075 Standard Specification for Engineered Wood Fiber for Use as a Playground Safety Surface Under and Around Playground Equipment.
- F2223 Standard Guide for ASTM Standards on Playground Surfacing.
- F2479 Standard Guide for Specification, Purchase, Installation and Maintenance of Poured-In-Place Playground Surfacing.
- F1951 Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment.
- F1816 Standard Safety Specification for Drawstrings on Children's Upper Outerwear.

- F2049 Standard Guide for Fences/Barriers for Public, Commercial, and Multi-Family Residential Use Outdoor Play Areas.
- F1148 Standard Consumer Safety Performance Specification for Home Playground Equipment.
- F1918 Standard Safety Performance Specification for Soft Contained Play Equipment.

#### 1.5 Significant Revisions for 2008

#### 1.5.1 Equipment guidelines

- Age ranges expanded to include children as young as 6 months based on ASTM F2373
- · Guidelines for track rides and log rolls added
- Exit zone requirements for slides harmonized with ASTM F1487

#### 1.5.2 Surfacing guidelines

- · Critical height table revised
- Suggestions for surfacing over asphalt added

#### 1.5.3 General guidelines

· Suggestions on sun exposure added

#### 1.5.4 Other revisions

 Editorial changes to make the Handbook easier to understand and use

#### 1.6 Background

The safety of each individual piece of playground equipment as well as the layout of the entire play area should be considered when designing or evaluating a playground for safety. Since falls are a very common playground hazard pattern, the installation and maintenance of protective surfacing under and around all equipment is crucial to protect children from severe head injuries.

Because all playgrounds present some challenge and because children can be expected to use equipment in unintended and unanticipated ways, adult supervision is highly recommended. The handbook provides some guidance on supervisory practices that adults should follow. Appropriate equipment design, layout, and maintenance, as discussed in this

handbook, are also essential for increasing public playground safety.

A playground should allow children to develop gradually and test their skills by providing a series of graduated challenges. The challenges presented should be appropriate for agerelated abilities and should be ones that children can perceive and choose to undertake. Toddlers, preschool- and school-age children differ dramatically, not only in physical size and ability, but also in their intellectual and social skills. Therefore, age-appropriate playground designs should accommodate these differences with regard to the type, scale, and the layout of equipment. Recommendations throughout this handbook address the different needs of toddlers, preschool-age, and school-age children; "toddlers" refers to children ages 6 months through 2 years of age, "preschool-age" refers to children 2 through 5 years, and "school-age" refers to children 5 through 12 years. The overlap between these groups is anticipated in terms of playground equipment use and provides for a margin of safety.

Playground designers, installers and operators should be aware that the Americans with Disabilities Act of 1990 (ADA) is a comprehensive civil rights law which prohibits discrimination on the basis of disability. Titles II and III of the ADA require, among other things, that newly constructed and altered State and local government facilities, places of public accommodation, and commercial facilities be readily accessible to and usable by individuals with disabilities. Recreation facilities, including play areas, are among the types of facilities covered by titles II and III of the ADA.

The Architectural and Transportation Barriers Compliance Boards – also referred to as the "Access Board" – has developed accessibility guidelines for newly constructed and altered play areas that were published October 2000. The play area guidelines are a supplement to the Americans with Disabilities Act Accessibility Guidelines (ADAAG). Once these guidelines are adopted as enforceable standards by the Department of Justice, all newly constructed and altered play areas covered by the ADA will be required to comply. These guidelines also apply to play areas covered by the Architectural Barriers Act (ABA).

Copies of the play area accessibility guidelines and further technical assistance can be obtained from the U.S. Access Board, 1331 F Street, NW, Suite 1000, Washington, DC 20004-1111; 800-872-2253, 800-993-2822 (TTY), www.access-board.gov.

#### 1.7 Playground Injuries

The U. S. Consumer Product Safety Commission has long recognized the potential hazards that exist with the use of playground equipment, with over 200,000 estimated emergency room-treated injuries annually. The most recent study of 2,691 playground equipment-related incidents reported to the CPSC from 2001-2008 indicated that falls are the most common hazard pattern (44% of injuries) followed by equipment-related hazards, such as breakage, tip over, design, and assembly (23%). Other hazard patterns involved entrapment and colliding other children or stationary equipment. Playground-related deaths reported to the Commission involved entanglement of ropes, leashes, or clothing; falls; and impact from equipment tip over or structural failure.

The recommendations in this handbook have been developed to address the hazards that resulted in playground-related injuries and deaths. The recommendations include those that address:

- · The potential for falls from and impact with equipment
- The need for impact attenuating protective surfacing under and around equipment
- Openings with the potential for head entrapment
- The scale of equipment and other design features related to user age and layout of equipment on a playground
- · Installation and maintenance procedures
- General hazards presented by protrusions, sharp edges, and crush or shear points

#### 1.8 Definitions

**Barrier** — An enclosing device around an elevated platform that is intended to prevent both inadvertent and deliberate attempts to pass through the device.

Composite Structure — Two or more play structures attached or functionally linked, to create one integral unit that provides more than one play activity.

Critical Height — The fall height below which a life-threatening head injury would not be expected to occur.

'O'Brien, Craig W.; Injuries and Investigated Deaths Associated with Playground Equipment, 2001–2008. U.S. Consumer Product Safety Commission: Washington DC, October, 2009.

**Designated Play Surface** — Any elevated surface for standing, walking, crawling, sitting or climbing, or a flat surface greater than 2 inches wide by 2 inches long having an angle less than 30° from horizontal.

*Embankment Slide* — A slide that follows the contour of the ground and at no point is the bottom of the chute greater than 12 inches above the surrounding ground.

**Entanglement** — A condition in which the user's clothes or something around the user's neck becomes caught or entwined on a component of playground equipment.

**Entrapment** — Any condition that impedes withdrawal of a body or body part that has penetrated an opening.

Fall Height — The vertical distance between the highest designated play surface on a piece of equipment and the protective surfacing beneath it.

**Footing** — A means for anchoring playground equipment to the ground.

Full Bucket Seat Swing — A swing generally appropriate for children under 4 years of age that provides support on all sides and between the legs of the occupant and cannot be entered or exited without adult assistance.

Geotextile (filter) Cloth — A fabric that retains its relative structure during handling, placement, and long-term service to enhance water movement, retard soil movement, and to add reinforcement and separation between the soil and the surfacing and/or sub-base.

**Guardrail** — An enclosing device around an elevated platform that is intended to prevent inadvertent falls from the elevated surface.

Infill — Material(s) used in a protective barrier or between decks to prevent a user from passing through the barrier (e.g., vertical bars, lattice, solid panel, etc.).

**Loose-Fill Surfacing Material** — A material used for protective surfacing in the use zone that consists of loose particles such as sand, gravel, engineered wood fibers, or shredded rubber.

**Preschool-Age Children** — Children 2 years of age through 5 years of age.

**Projection** — Anything that extends extends outward from a surface of the playground equipment and must be tested to determine whether it is a protrusion or entanglement hazard, or both.

Protective Barrier - See Barrier.

**Protective Surfacing** — Shock absorbing (i.e., impact attenuating) surfacing material in the use zone that conforms to the recommendations in §2.4 of this handbook.

**Protrusion** — A projection which, when tested, is found to be a hazard having the potential to cause bodily injury to a user who impacts it.

**Roller Slide** — A slide that has a chute consisting of a series of individual rollers over which the user travels.

School-Age Children — Children 5 years of age through 12 years of age.

Slide Chute — The inclined sliding surface of a slide.

**Stationary Play Equipment** — Any play structure that has a fixed base and does not move.

Supervisor — Any person tasked with watching children on a playground. Supervisors may be paid professionals (e.g., childcare, elementary school or park and recreation personnel), paid seasonal workers (e.g., college or high school students), volunteers (e.g., PTA members), or unpaid caregivers (e.g., parents) of the children playing in the playground.

Toddlers — Children 6 months through 23 months of age.

**Tube Slide** — A slide in which the chute consists of a totally enclosed tube or tunnel.

*Unitary Surfacing Material* — A manufactured material used for protective surfacing in the use zone that may be rubber tiles, mats, or a combination of energy absorbing materials held in place by a binder that may be poured in place at the playground site and cures to form a unitary shock absorbing surface.

**Upper Body Equipment** — Equipment designed to support a child by the hands only (e.g., horizontal ladder, overhead swinging rings).

Use Zone — The surface under and around a piece of equipment onto which a child falling from or exiting from the equipment would be expected to land. These areas are also designated for unrestricted circulation around the equipment.

#### 2. GENERAL PLAYGROUND CONSIDERATIONS

#### 2.1 Selecting a Site

The following factors are important when selecting a site for a new playground:

Site Factor	Questions to Ask	lf γes, thenMitigation
Travel patterns of children to and from the playground	Are there hazards in the way?	Clear hazards.
Nearby accessible hazards such as roads with traffic, lakes, ponds, streams, drop-offs/cliffs, etc.	Could a child inadvertently run into a nearby hazard? Could younger children easily wander off toward the hazard?	Provide a method to contain children within the playground. For example, a dense hedge or a fence. The method should allow for observation by supervisors. If fences are used, they should conform to local building codes and/or ASTM F-2049.
Sun exposure	ls sun exposure sufficient to heat exposed bare metal slides, plat- forms, steps, & surfacing enough to burn children?	Bare metal slides, platforms, and steps should be shaded or located out of direct sun.  Provide warnings that equipment and surfacing exposed to intense sun can burn.
	Will children be exposed to the sun during the most intense part of the day?	Consider shading the playground or providing shaded areas nearby.
Slope and drainage	Will loose fill materials wash away during periods of heavy rain?	Consider proper drainage re- grading to prevent wash outs.

#### 2.1.1 Shading considerations

According to the American Academy of Dermatology, research indicates that one in five Americans will develop some form of skin cancer during their lifetime, and five or more sunburns double the risk of developing skin cancer. Utilizing existing shade (e.g., trees), designing play structures as a means for providing shading (e.g., elevated platforms with shaded space below), or creating more shade (e.g., manmade structures) are potential ways to design a playground to help protect children's skin from the sun. When trees are used for shade, additional maintenance issues arise, such as the need for cleaning up debris and trimming limbs.

#### 2.2 Playground Layout

There are several key factors to keep in mind when laying out a playground:

- Accessibility
- Age separation
- · Conflicting activities
- Sight lines
- · Signage and/or labeling
- Supervision

#### 2.2.1 Accessibility

Special consideration should be given to providing accessible surfaces in a play area that meets the ASTM Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment, ASTM F1951. Equipment selection and location along with the type of protective surfacing are key components to ensuring the opportunity for children with disabilities to play on the playground.

#### 2.2.2 Age separation

For playgrounds intended to serve children of all ages, the layout of pathways and the landscaping of the playground should show the distinct areas for the different age groups. The areas should be separated at least by a buffer zone, which could be an area with shrubs or benches. This separation and buffer zone will reduce the chance of injury from older, more active children running through areas filled with younger children with generally slower movement and reaction times.

#### 2.2.3 Age group

In areas where access to the playground is unlimited or enforced only by signage, the playground designer should recognize that since child development is fluid, parents and caregivers may select a playground slightly above or slightly below their child's abilities, especially for children at or near a cut-off age (e.g., 2-years old and 5-years old). This could be for ease of supervising multiple children, misperceptions about the hazards a playground may pose to children of a different age, advanced development of a child, or other reasons. For this reason, there is an overlap at age 5. Developmentally a similar overlap also exists around age 2; however, due to the differences in ASTM standards and entrapment testing tools, this overlap is not reflected in the handbook. Playgrounds used primarily by children under the supervision of paid, trained professionals (e.g., child-care centers and schools) may wish to consider separating playgrounds by the facility's age groupings. For example, a childcare facility may wish to limit a playground to toddlers under 2 exclusively and can draw information from this guide and ASTM F2373. A school, on the other hand, may have no children under 4 attending, and can likewise plan appropriately. Those who inspect playgrounds should use the intend-

#### 2.2.4 Conflicting activities

The play area should be organized into different sections to prevent injuries caused by conflicting activities and children running between activities. Active, physical activities should be separate from more passive or quiet activities. Areas for playground equipment, open fields, and sand boxes should be located in different sections of the playground. In addition, popular, heavy-use pieces of equipment or activities should be dispersed to avoid crowding in any one area.

Different types of equipment have different use zones that must be maintained. The following are general recommendations for locating equipment within the playground site. Specific use zones for equipment are given in §5.3.

- Moving equipment, such as swings and merry-go-rounds, should be located toward a corner, side, or edge of the play area while ensuring that the appropriate use zones around the equipment are maintained.
- Slide exits should be located in an uncongested area of the playground.
- Composite play structures have become increasingly
  popular on public playgrounds. Adjacent components on
  composite structures should be complementary. For
  example, an access component should not be located in
  a slide exit zone.

#### 2.2.5 Sight lines

Playgrounds that are designed, installed, and maintained in accordance with safety guidelines and standards can still present hazards to children. Playgrounds should be laid out to allow parents or caregivers to keep track of children as they move throughout the playground environment. Visual barriers should be minimized as much as possible. For example, in a park situation, playground equipment should be as visible as possible from park benches. In playgrounds with areas for different ages, the older children's area should be visible from the younger children's area to ensure that caregivers of multiple children can see older children while they are engaged in interactive play with younger ones.

#### 2.2.6 Signage and/or labeling

Although the intended user group should be obvious from the design and scale of equipment, signs and/or labels posted in the playground area or on the equipment should give some guidance to supervisors as to the age appropriateness of the equipment.

ed age group of the playground.

#### 2.2.7 Supervision

The quality of the supervision depends on the quality of the supervisor's knowledge of safe play behavior. Playground designers should be



aware of the type of supervision most likely for their given playground. Depending on the location and nature of the playground, the supervisors may be paid professionals (e.g., childcare, elementary school or park and recreation personnel), paid seasonal workers (e.g., college or high school students), volunteers (e.g., PTA members), or unpaid caregivers (e.g., parents) of the children playing in the playground.

Parents and playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Supervisors should look for posted signs indicating the appropriate age of the users and direct children to equipment appropriate for their age. Supervisors may also use the information in Table 1 to determine the suitability of the equipment for the children they are supervising. Toddlers and preschool-age children require more attentive supervision than older children; however, one should not rely on supervision alone to prevent injuries.

Supervisors should understand the basics of playground safety such as:

- Checking for broken equipment and making sure children don't play on it.
- Checking for and removing unsafe modifications, especially ropes tied to equipment, before letting children play.
- Checking for properly maintained protective surfacing.
- · Making sure children are wearing foot wear.

#### TABLE 1. EXAMPLES OF AGE APPROPRIATE EQUIPMENT



#### Toddler - Ages 6-23 months

- Climbing equipment under 32" high
- Ramps
- · Single file step ladders
- Slides\*
- Spiral slides less than 360°
- · Spring rockers
- Stairways
- · Swings with full bucket seats



#### Preschool — Ages 2-5 years

- Certain climbers\*\*
- Horizontal ladders less than or equal to 60" high for ages 4 and
- · Merry-go-rounds
- Ramps
- Rung ladders
- · Single file step ladders
- Slides\*
- Spiral slides up to 360°
- Spring rockers
- Stairways
- Swings belt, full bucket seats (2-4 years) & rotating tire



#### Grade School — Ages 5-12 years

- Arch climbers
- · Chain or cable walks
- Free standing climbing events with flexible parts
- Fulcrum seesaws
- Ladders Horizontal, Rung, & Step
- Overhead rings\*\*\*
- Merry-go-rounds
- Ramps
- Ring treks
- Slides\*
- Spiral slides more than one 360° turn
- Stairways
- Swings belt & rotating tire
- Track rides
- Vertical sliding poles
- \*\*\* See §5.3.2.5

\* See §5.3.6

\*\* See §5.3.2

- Watching and stopping dangerous horseplay, such as children throwing protective surfacing materials, jumping from heights, etc.
- Watching for and stopping children from wandering away from the play area.

#### 2.3 Selecting Equipment

When selecting playground equipment, it is important to know the age range of the children who will be using the playground. Children at different ages and stages of development have different needs and abilities. Playgrounds should be designed to stimulate children and encourage them to develop new skills, but should be in scale with their sizes, abilities, and developmental levels. Consideration should also be given to providing play equipment that is accessible to children with disabilities and encourages integration within the playground.

Table I shows the appropriate age range for various pieces of playground equipment. This is not an all-comprehensive list and, therefore, should not limit inclusion of current or newly designed equipment that is not specifically mentioned. For equipment listed in more than one group, there may be some modifications or restrictions based on age, so consult the specific recommendations in §5.3.

#### 2.3.1 Equipment not recommended

Some playground equipment is not recommended for use on public playgrounds, including:

- Trampolines
- · Swinging gates
- · Giant strides
- Climbing ropes that are not secured at both ends.
- Heavy metal swings (e.g., animal figures) These are not recommended because their heavy rigid metal framework presents a risk of impact injury.
- Multiple occupancy swings With the exception of tire swings, swings that are intended for more than one user are not recommended because their greater mass, as compared to single occupancy swings, presents a risk of impact injury.
- Rope swings Free-swinging ropes that may fray or otherwise form a loop are not recommended because they present a potential strangulation hazard.

 Swinging dual exercise rings and trapeze bars — These are rings and trapeze bars on long chains that are generally considered to be items of athletic equipment and are not recommended for public playgrounds. NOTE: The recommendation against the use of exercise rings does not apply to overhead hanging rings such as those used in a ring trek or ring ladder (see Figure 7).



#### 2.4 Surfacing

The surfacing under and around playground equipment is one of the most important factors in reducing the likelihood of life-threatening head injuries. A fall onto a shock absorbing surface is less likely to cause a

serious head injury than a fall onto a hard surface. However, some injuries from falls, including broken limbs, may occur no matter what playground surfacing material is used.

The most widely used test method for evaluating the shock absorbing properties of a playground surfacing material is to drop an instrumented metal headform onto a sample of the material and record the acceleration/time pulse during the impact. Field and laboratory test methods are described in ASTM F1292 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment.

Testing using the methods described in ASTM F1292 will provide a "critical height" rating of the surface. This height can be considered as an approximation of the fall height below which a life-threatening head injury would not be expected to occur. Manufacturers and installers of playground protective surfacing should provide the critical height rating of their materials. This rating should be greater than or equal to the fall height of the highest piece of equipment on the playground. The fall height of a piece of equipment is the distance between the highest designated play surface on a piece of equipment and the protective surface beneath it. Details for determining the highest designated play surface and fall height on some types of equipment are included in §5 Parts of the Playground.

#### 2.4.1 Equipment not covered by protective surfacing recommendations

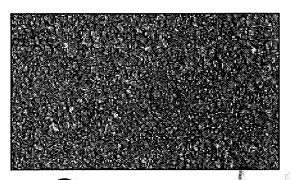
The recommendations for protective surfacing do not apply to equipment that requires a child to be standing or sitting at ground level. Examples of such equipment are:





#### **Appropriate Surfacing**

- Any material tested to ASTM F1292, including unitary surfaces, engineered wood fiber, etc.
- Pea gravel
- Sand
- · Shredded/recycled rubber mulch
- Wood mulch (not CCA-treated)
- Wood chips





#### Inappropriate Surfacing

- Asphalt
- Carpet not tested to ASTM F1292
- Concrete
- Dirt
- Grass
- CCA treated wood mulch

- Sand boxes
- · Activity walls at ground level
- Play houses
- Any other equipment that children use when their feet remain in contact with the ground surface

#### 2.4.2 Selecting a surfacing material

There are two options available for surfacing public play-grounds: unitary and loose-fill materials. A playground should never be installed without protective surfacing of some type. Concrete, asphalt, or other hard surfaces should never be directly under playground equipment. Grass and dirt are not considered protective surfacing because wear and environmental factors can reduce their shock absorbing effectiveness. Carpeting and mats are also not appropriate unless they are tested to and comply with ASTM F1292. Loose-fill should be avoided for playgrounds intended for toddlers.

#### 2.4.2.1 Unitary surfacing materials

Unitary materials are generally rubber mats and tiles or a combination of energy-absorbing materials held in place by a

binder that may be poured in place at the playground site and then cured to form a unitary shock absorbing surface. Unitary materials are available from a number of different manufacturers, many of whom have a range of materials with differing shock absorbing properties. New surfacing materials, such as bonded wood fiber and combinations of loose-fill and unitary, are being developed that may also be tested to ASTM F1292 and fall into the unitary materials category. When deciding on the best surfacing materials keep in mind that some dark colored surfacing materials exposed to the intense sun have caused blistering on bare feet. Check with the manufacturer if light colored materials are available or provide shading to reduce direct sun exposure.

Persons wishing to install a unitary material as a playground surface should request ASTM F1292 test data from the manufacturer identifying the critical height rating of the desired surface. In addition, site requirements should be obtained from the manufacturer because some unitary materials require installation over a hard surface while others do not. Manufacturer's instructions should be followed closely, as some unitary systems require professional installation. Testing should be conducted in accordance with the ASTM F1292 standard.

#### 2.4.2.2 Loose-fill surfacing materials

Engineered wood fiber (EWF) is a wood product that may look similar in appearance to landscaping mulch, but EWF products are designed specifically for use as a playground safety surface under and around playground equipment. EWF products should meet the specifications in ASTM F2075: Standard Specification for Engineered Wood Fiber and be tested to and comply with ASTM F1292.

There are also rubber mulch products that are designed specifically for use as playground surfacing. Make sure they have been tested to and comply with ASTM F1292.

When installing these products, tips 1-9 listed below should be followed. Each manufacturer of engineered wood fiber and rubber mulch should provide maintenance requirements for and test data on:

- Critical height based on ASTM F1292 impact attenuation testing.
- · Minimum fill-depth data.
- Toxicity.
- ADA/ABA accessibility guidelines for firmness and stability based on ASTM F1951.

Other loose-fill materials are generally landscaping-type materials that can be layered to a certain depth and resist compacting. Some examples include wood mulch, wood chips, sand, pea gravel, and shredded/recycled rubber mulch.

Important tips when considering loose-fill materials:

- Loose-fill materials will compress at least 25% over time due to use and weathering. This must be considered when planning the playground. For example, if the playground will require 9 inches of wood chips, then the initial fill level should be 12 inches. See Table 2 below.
- 2. Loose-fill surfacing requires frequent maintenance to ensure surfacing levels never drop below the minimum depth. Areas under swings and at slide exits are more susceptible to displacement; special attention must be paid to maintenance in these areas. Additionally, wear mats can be installed in these areas to reduce displacement.
- The perimeter of the playground should provide a method of containing the loose-fill materials.
- Consider marking equipment supports with a minimum fill level to aid in maintaining the original depth of material.

- Good drainage is essential to maintaining loose-fill surfacing. Standing water with surfacing material reduces effectiveness and leads to material compaction and decomposition.
- 6. Critical height may be reduced during winter in areas where the ground freezes.
- Never use less than 9 inches of loose-fill material except for shredded/recycled rubber (6 inches recommended).
   Shallower depths are too easily displaced and compacted
- 8. Some loose-fill materials may not meet ADA/ABA accessibility guidelines. For more information, contact the Access Board (see §1.6) or refer to ASTM F1951.
- Wood mulch containing chromated copper arsenate (CCA)-treated wood products should not be used; mulch where the CCA-content is unknown should be avoided (see §2.5.5.1).

Table 2 shows the minimum required depths of loose-fill material needed based on material type and fall height. The depths shown assume the materials have been compressed due to use and weathering and are properly maintained to the given level.

#### 2.4.2.3 Installing loose-fill over hard surface

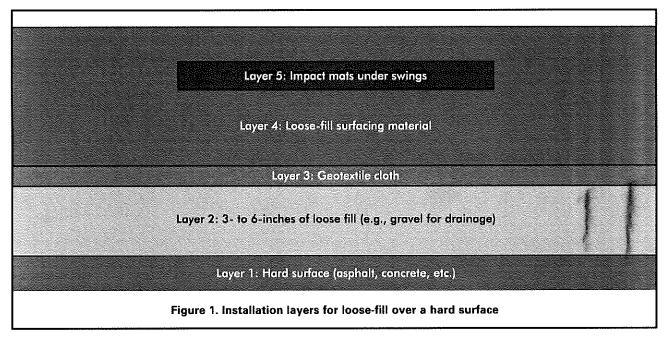
CPSC staff strongly recommends against installing playgrounds over hard surfaces, such as asphalt, concrete, or hard packed earth, unless the installation adds the following layers of protection. Immediately over the hard surface there should be a 3- to 6-inch base layer of loose-fill (e.g., gravel for drainage). The next layer should be a Geotextile cloth. On top of that should be a loose-fill layer meeting the specifications addressed in §2.4.2.2 and Table 2. Embedded in the loose-fill layer should be impact attenuating mats under high traffic areas, such as under swings, at slide exits, and other places where displacement is likely. Figure 1 provides a visual representation of this information. Older playgrounds that still exist on hard surfacing should be modified to provide appropriate surfacing.

#### 2.5 Equipment Materials

#### 2.5.1 Durability and finish

Use equipment that is manufactured and constructed only
of materials that have a demonstrated record of durability
in a playground or similar setting.

Inches	Of (Loose-Fill Material)	Protects to	Fall Height (feet
6*	Shredded/recycled rubber		10
9	Sand		4
9	Pea Gravel		5
9	Wood mulch (non-CCA)		7
9	Wood chips		10



 Finishes, treatments, and preservatives should be selected carefully so that they do not present a health hazard to users.

#### 2.5.2 Hardware

When installed and maintained in accordance with the manufacturer's instructions:

- All fasteners, connectors, and covering devices should not loosen or be removable without the use of tools.
- All fasteners, connectors, and covering devices that are exposed to the user should be smooth and should not be likely to cause laceration, penetration, or present a clothing entanglement hazard (see also §3.2 and Appendix B).
- Lock washers, self-locking nuts, or other locking means should be provided for all nuts and bolts to protect them from detachment.
- Hardware in moving joints should also be secured against unintentional or unauthorized loosening.

- All fasteners should be corrosion resistant and be selected to minimize corrosion of the materials they connect. This is particularly important when using wood treated with ACQ/CBA/CA-B<sup>2</sup> as the chemicals in the wood preservative corrode certain metals faster than others.
- Bearings or bushings used in moving joints should be easy to lubricate or be self-lubricating.
- All hooks, such as S-hooks and C-hooks, should be closed (see also §5.3.8.1). A hook is considered closed if there is no gap or space greater than 0.04 inches, about the thickness of a dime.

#### 2.5.3 Metals

- Avoid using bare metal for platforms, slides, or steps.
   When exposed to direct sunlight they may reach temperatures high enough to cause serious contact burn injuries in a matter of seconds. Use other materials that may reduce the surface temperature, such as but not limited to wood, plastic, or coated metal (see also Slides in §5.3.6).
- If bare or painted metal surfaces are used on platforms, steps, and slide beds, they should be oriented so that the surface is not exposed to direct sun year round.

#### 2.5.4 Paints and finishes

- Metals not inherently corrosion resistant should be painted, galvanized, or otherwise treated to prevent rust.
- The manufacturer should ensure that the users cannot ingest, inhale, or absorb potentially hazardous amounts of preservative chemicals or other treatments applied to the equipment as a result of contact with playground equipment.
- All paints and other similar finishes must meet the current CPSC regulation for lead in paint.
- Painted surfaces should be maintained to prevent corrosion and deterioration.
- Paint and other finishes should be maintained to prevent rusting of exposed metals and to minimize children playing with peeling paint and paint flakes.

Older playgrounds with lead based paints should be identified and a strategy to control lead paint exposure should be developed. Playground managers should consult the October 1996 report, CPSC Staff Recommendations for Identifying and Controlling Lead Paint on Public Playground Equipment, while ensuring that all paints and other similar finishes meet the current CPSC regulation.<sup>3</sup>

#### 2.5.5 Wood

- Wood should be either naturally rot- and insect-resistant (e.g., cedar or redwood) or should be treated to avoid such deterioration.
- Creosote-treated wood (e.g., railroad ties, telephone poles, etc) and coatings that contain pesticides should not be used.

#### 2.5.5.1 Pressure-treated wood

A significant amount of older playground wood was pressure-treated with chemicals to prevent damage from insects and fungi. Chromated copper arsenate (CCA) was a chemical used for decades in structures (including playgrounds). Since December 31, 2003, CCA-treated wood is no longer processed for use in playground applications. Other rot- and insect-resistant pressure treatments are available that do not contain arsenic; however, when using any of the new treated wood products, be sure to use hardware that is compatible with the wood treatment chemicals. These chemicals are known to corrode certain materials faster than others.

#### Existing playgrounds with CCA-treated wood

Various groups have made suggestions concerning the application of surface coatings to CCA-treated wood (e.g., stains and sealants) to reduce a child's potential exposure to arsenic from the wood surface. Data from CPSC staff and EPA studies suggest that regular (at least once a year) use of an oil- or water-based, penetrating sealant or stain can reduce arsenic migration from CCA-treated wood. Installers, builders, and consumers who perform woodworking operations, such as sanding, sawing, or sawdust disposal, on pressure-treated wood should read the consumer information sheet available at the point of sale. This sheet contains important health precautions and disposal information.

<sup>&</sup>lt;sup>2</sup> Ammoniacal copper quat (ACQ), copper boron azole (CBA), copper azole type B (CA-B), etc.

<sup>&</sup>lt;sup>3</sup> CPSC Staff Recommendations for Identifying and Controlling Lead Paint on Public Playground Equipment; U.S. Consumer Product Safety Commission: Washington, DC, October 1996.

When selecting wood products and finishes for public playgrounds, CPSC staff recommends:

- Avoid "film-forming" or non-penetrating stains (latex semi-transparent, latex opaque and oil-based opaque stains) on outdoor surfaces because peeling and flaking may occur later, which will ultimately have an impact on durability as well as exposure to the preservatives in the wood.
- Creosote, pentachlorophenol, and tributyl tin oxide are too toxic or irritating and should not be used as preservatives for playground equipment wood.
- Pesticide-containing finishes should not be used.
- CCA-treated wood should not be used as playground mulch.

#### 2.6 Assembly and Installation

- Strictly follow *all* instructions from the manufacturer when assembling and installing equipment.
- After assembly and before its first use, equipment should be thoroughly inspected by a person qualified to inspect playgrounds for safety.
- The manufacturer's assembly and installation instructions, and all other materials collected concerning the equipment, should be kept in a permanent file.
- Secure anchoring is a key factor to stable installation, and the anchoring process should be completed in *strict* accordance with the manufacturer's specifications.

#### 3. PLAYGROUND HAZARDS

This section provides a broad overview of general hazards that should be avoided on playgrounds. It is intended to raise awareness of the risks posed by each of these hazards. Many of these hazards have technical specifications and tests for compliance with ASTM F1487 and F2373. Some of these tests are also detailed in Appendix B.

#### 3.1 Crush and Shearing Points

Anything that could crush or shear limbs should not be accessible to children on a playground. Crush and shear points can be caused by parts moving relative to each other or to a fixed part during a normal use cycle, such as a seesaw.

To determine if there is a possible crush or shear point, consider:

- The likelihood a child could get a body part inside the point, and
- · The closing force around the point.

Potential crush/shear hazards specific to certain pieces of equipment are identified in §5.3 Major Types of Playground Equipment.

#### 3.2 Entanglement and Impalement

Projections on playground equipment should not be able to entangle children's clothing nor should they be large enough to impale. To avoid this risk:

- The diameter of a projection should not increase in the direction away from the surrounding surface toward the exposed end (see Figure 2).
- Bolts should not expose more than two threads beyond the end of the nut (see Figure 3).
- All hooks, such as S-hooks and C-hooks, should be closed (see also §5.3.8.1). A hook is considered closed if there is no gap or space greater than 0.04 inches, about the thickness of a dime.
  - Any connecting device containing an in-fill that completely fills the interior space preventing entry of clothing items into the interior of the device is exempt from this requirement.

- Swings and slides have additional recommendations for projections detailed in §5.3.
- See Appendix B for testing recommendations.

#### 3.2.1 Strings and ropes

Drawstrings on the hoods of jackets, sweatshirts, and other upper body clothing can become entangled in playground equipment, and can cause death by strangulation. To avoid this risk:

- Children should not wear jewelry, jackets or sweatshirts with drawstring hoods, mittens connected by strings through the arms, or other upper body clothing with drawstrings.
- Remove any ropes, dog leashes, or similar objects that have been attached to playground equipment. Children can become entangled in them and strangle to death

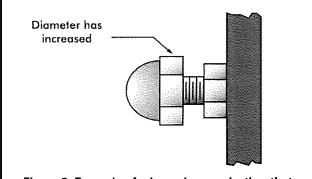


Figure 2. Example of a hazardous projection that increases in diameter from plane of initial surface and forms an entanglement hazard and may also be an impalement hazard.

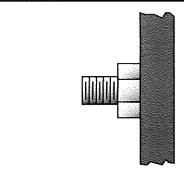
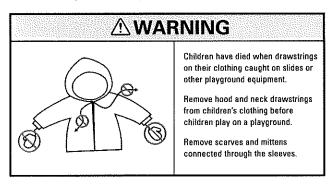


Figure 3. Example of a hazardous projection that extends more than 2 threads beyond the nut and forms an impalement/laceration hazard and may also be an entanglement hazard.

- Avoid equipment with ropes that are not secured at both ends.
- The following label, or a similar sign or label, can be placed on or near slides or other equipment where potential entanglements may occur.



#### 3.3 Entrapment

#### 3.3.1 Head entrapment

Head entrapment is a serious concern on playgrounds, since it could lead to strangulation and death. A child's head may become entrapped if the child enters an opening either feet first or head first. Head entrapment by head-first entry generally occurs when children place their heads through an opening in one orientation, turn their heads to a different orientation, then are unable to get themselves out. Head entrapment by feet first entry involves children who generally sit or lie down and slide their feet into an opening that is large enough to permit their bodies to go through but is not large enough to permit their heads to go through. A part or a group of parts should not form openings that could trap a child's head. Also, children should not wear their bicycle helmets while on playground equipment. There have been recent head entrapment incidents in which children wearing their bicycle helmets became entrapped in spaces that would not normally be considered a head entrapment.

Certain openings could present an entrapment hazard if the distance between any interior opposing surfaces is greater than 3.5 inches and less than 9 inches. These spaces should be tested as recommended in Appendix B. When one dimension of an opening is within this range, all dimensions of the opening should be considered together to evaluate the possibility of entrapment. Even openings that are low enough for children's feet to touch the ground can present a risk of strangulation for an entrapped child. (See Figure 4). Younger children may not have the necessary intellectual ability or motor skills to reverse the process that caused their heads to become trapped, especially if they become scared or panicked.

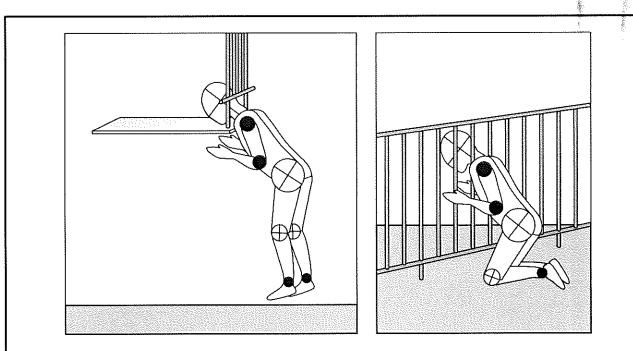
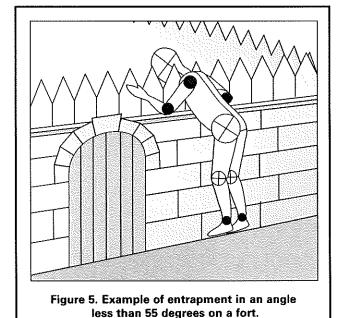


Figure 4. Examples of entrapment below a barrier and between the vertical bars of a barrier.



#### 3.3.2 Partially bound openings and angles

Children can become entrapped by partially bound openings, such as those formed by two or more playground parts.

- Angles formed by two accessible adjacent parts should be greater than 55 degrees unless the lowest leg is horizontal or below horizontal.
- Use the partially-bound opening test in Appendix B to identify hazardous angles and other partially-bound openings.

#### 3.4 Sharp Points, Corners, and Edges

Sharp points, corners, or edges on any part of the playground or playground equipment may cut or puncture a child's skin. Sharp edges can cause serious lacerations if protective measures are not taken. To avoid the risk of injury from sharp points, corners and edges:

- Exposed open ends of all tubing not resting on the ground or otherwise covered should be covered by caps or plugs that cannot be removed without the use of tools.
- Wood parts should be smooth and free from splinters.
- · All corners, metal and wood, should be rounded.
- · All metal edges should be rolled or have rounded capping.

- There should be no sharp edges on slides. Pay special attention to metal edges of slides along the sides and at the exit (see also §5.3.6.4).
- If steel-belted radials are used as playground equipment, they should be closely examined regularly to ensure that there are no exposed steel belts/wires.
- Conduct frequent inspections to help prevent injuries caused by splintered wood, sharp points, corners, or edges that may develop as a result of wear and tear on the equipment.

#### 3.5 Suspended Hazards

Children using a playground may be injured if they run into or trip over suspended components (such as cables, wires, ropes, or other flexible parts) connected from one piece of the playground equipment to another or hanging to the ground. These suspended components can become hazards when they are within 45 degrees of horizontal and are less than 7 feet above the protective surfacing. To avoid a suspended hazard, suspended components:

- · Should be located away from high traffic areas.
- Should either be brightly colored or contrast with the surrounding equipment and surfacing.
- Should not be able to be looped back on themselves or other ropes, cables, or chains to create a circle with a 5 inch or greater perimeter.
- Should be fastened at both ends unless they are 7 inches or less long or attached to a swing seat.

These recommendations do not apply to swings, climbing nets, or if the suspended component is more than 7 feet above the protective surfacing and is a minimum of one inch at its widest cross-section dimension.

#### 3.6 Tripping Hazards

Play areas should be free of tripping hazards (i.e., sudden change in elevations) to children who are using a playground. Two common causes of tripping are anchoring devices for playground equipment and containment walls for loose-fill surfacing materials.

 All anchoring devices for playground equipment, such as concrete footings or horizontal bars at the bottom of flexible climbers, should be installed below ground level and beneath the base of the protective surfacing material. This will also prevent children from sustaining additional injuries from impact if they fall on exposed footings.

- Contrasting the color of the surfacing with the equipment color can contribute to better visibility.
- Surfacing containment walls should be highly visible.
- Any change of elevation should be obvious.
- Contrasting the color of the containment barrier with the surfacing color can contribute to better visibility.

#### 3.7 Used Tires

Used automobile and truck tires are often recycled as playground equipment, such as tire swings or flexible climbers, or as a safety product such as cushioning under a seesaw or shredded as protective surfacing. When recycling tires for playground use:

- Steel-belted radials should be closely examined regularly to ensure that there are no exposed steel belts/wires.
- Care should be taken so that the tire does not collect water and debris; for example, providing drainage holes on the underside of the tire would reduce water collection.
- Recycled tire rubber mulch products should be inspected before installation to ensure that all metal has been removed.

In some situations, plastic materials can be used as an alternative to simulate actual automobile tires.

## 4. MAINTAINING A PLAYGROUND

Inadequate maintenance of equipment has resulted in injuries on playgrounds. Because the safety of playground equipment and its suitability for use depend on good inspection and maintenance, the manufacturer's maintenance instructions and recommended inspection schedules should be strictly followed. If manufacturer's recommendations are not available, a maintenance schedule should be developed based on actual or anticipated playground use. Frequently used playgrounds will require more frequent inspections and maintenance.

#### 4.1 Maintenance Inspections

A comprehensive maintenance program should be developed for each playground. All playground areas and equipment should be inspected for excessive wear, deterioration, and any potential hazards, such as those shown in Table 3. One possible procedure is the use of checklists. Some manufacturers supply checklists for general or detailed inspections with their maintenance instructions. These can be used to ensure that inspections are in compliance with the manufacturer's specifications. If manufacturer-provided inspection guidelines are not available, a general checklist that may be used as a guide for frequent routine inspections of public playgrounds is included at Appendix A. This is intended to address only general maintenance concerns. Detailed inspections should give special attention to moving parts and other parts that can be expected to wear. Maintenance inspections should be carried out in a systematic manner by personnel familiar with the playground, such as maintenance workers, playground supervisors, etc.

#### 4.2 Repairs

Inspections alone do not constitute a comprehensive maintenance program. Any problems found during the inspection should be noted and fixed as soon as possible.

- All repairs and replacements of equipment parts should be completed following the manufacturer's instructions.
- User modifications, such as loose-ended ropes tied to elevated parts, should be removed immediately.
- · For each piece of equipment, the frequency of thorough

## Table 3. Routine inspection and maintenance issues

	Broken equipment such as loose bolts, missing end caps, cracks, etc.					
	Broken glass & other trash					
	Cracks in plastics					
	Loose anchoring					
	Hazardous or dangerous debris					
	Insect damage					
	Problems with surfacing					
	Displaced loose-fill surfacing (see Section 4.3)					
	Holes, flakes, and/or buckling of unitary surfacing					
	User modifications (such as ropes tied to parts or equipment rearranged)					
	Vandalism					
	Worn, loose, damaged, or missing parts					
	Wood splitting					
	Rusted or corroded metals					
	Rot					

inspections will depend on the type and age of equipment, the amount of use, and the local climate.

 Consult the manufacturer for maintenance schedules for each piece of equipment. Based on these schedules, a maintenance schedule for the entire playground can be created. This routine maintenance schedule should not replace regular inspections.

#### 4.3 Maintaining Loose-Fill Surfacing

Loose-fill surfacing materials require special maintenance. High-use public playgrounds, such as child care centers and schools, should be checked frequently to ensure surfacing has not displaced significantly, particularly in areas of the playground most subject to displacement (e.g., under swings and slide exits). This can be facilitated by marking ideal surfacing depths on equipment posts. Displaced loose-fill

surfacing should be raked back into proper place so that a constant depth is maintained throughout the playground. Impact attenuating mats placed in high traffic areas, such as under swings and at slide exits, can significantly reduce displacement. They should be installed below or level with surfacing so as not to be a tripping hazard.

The following are key points to look for during regular checks of surfacing:

- Areas under swings and at slide exits. Activity in these areas tends to displace surfacing quickly. Rake loose-fill back into place.
- Pooling water on mulch surfacing. For example, wet mulch compacts faster than dry, fluffy mulch. If puddles are noticed regularly, consider addressing larger drainage issues.
- · Frozen surfacing. Most loose-fill surfacing that freezes

solid no longer functions as protective surfacing. Even if the first few inches may be loose, the base layer may be frozen and the impact attenuation of the surfacing may be significantly reduced. It is recommended that children not play on the equipment under these conditions.

#### 4.4 Recordkeeping

Records of all maintenance inspections and repairs should be retained, including the manufacturer's maintenance instructions and any checklists used. When any inspection is performed, the person performing it should sign and date the form used. A record of any accident and injury reported to have occurred on the playground should also be retained. This will help identify potential hazards or dangerous design features that should be corrected.

## 5. PARTS OF THE PLAYGROUND

#### 5.1 Platforms, Guardrails and Protective Barriers

#### 5.1.1 Platforms

- Platforms should be generally flat (i.e., within ± 2° of horizontal).
- Openings in platforms should be provided to allow for drainage.
- · Platforms should minimize the collection of debris.
- Platforms intended for toddlers should be no more than 32 inches from the ground.

#### 5.1.2 Stepped platforms

On some composite structures, platforms are layered or tiered so that a child may access the higher platform without steps or ladders. Unless there is an alternate means of access/egress, the maximum difference in height between stepped platforms should be:

· Toddlers: 7 inches.

Preschool-age: 12 inches.

· School-age: 18 inches.

An access component (such as a rung) is needed if the difference in height is more than 12 inches for preschool-age and 18 inches for school-age children.

The space between the stepped platforms should follow the recommendations to minimize entrapment hazards in enclosed openings:

- Toddlers: if the space is less than 7 inches, infill should be used to reduce the space to less than 3.0 inches.
- Preschool-age: if the space exceeds 9 inches and the height of the lower platform above the protective surfacing exceeds 30 inches, infill should be used to reduce the space to less than 3.5 inches.
- School-age: if the space exceeds 9 inches and the height of the lower platform above the protective surfacing exceeds 48 inches, infill should be used to reduce the space to less than 3.5 inches.

#### 5.1.2.1 Fall height

 The fall height of a platform is the distance between the top of the platform and the protective surfacing beneath

#### 5.1.3 Guardrails and protective barriers

Guardrails and protective barriers are used to minimize the likelihood of accidental falls from elevated platforms. Protective barriers provide greater protection than guardrails and should be designed to discourage children from climbing over or through the barrier. Guardrails and barriers should:

- · Completely surround any elevated platform.
- Except for entrance and exit openings, the maximum clearance opening without a top horizontal guardrail should be 15 inches.
- · Prevent unintentional falls from the platform.
- · Prevent the possibility of entrapment.
- · Facilitate supervision.

#### For example:

- Guardrails may have a horizontal top rail with infill
  consisting of vertical bars having openings that are greater
  than 9 inches. These openings do not present an entrapment hazard but do not prevent a child from climbing
  through the openings.
- A barrier should minimize the likelihood of passage of a child during deliberate attempts to defeat the barrier. Any openings between uprights or between the platform surface and lower edge of a protective barrier should prevent passage of the small torso template (see test in B.2.5).

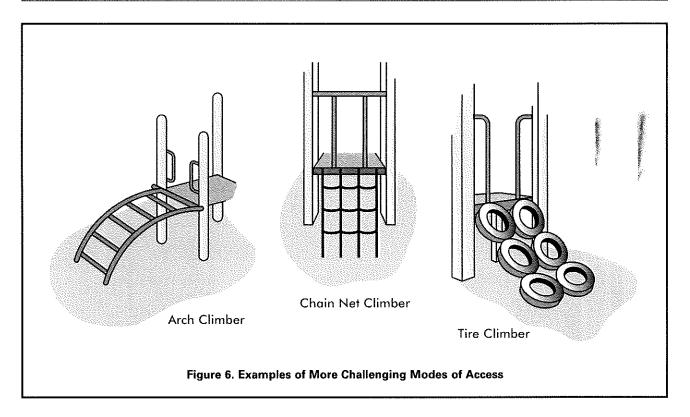
Guardrails or protective barriers should be provided on elevated platforms, walkways, landings, stairways, and transitional surfaces. In general, the younger the child, the less coordination and balance they have, therefore the more vulnerable they are to unintentional falls. Toddlers are the most vulnerable, and equipment intended for this age should use barriers on all elevated walking surfaces above 18 inches. Physical skills develop further in preschool-age children and then more with school-age children; therefore, minimum elevation recommendations for guardrails and barriers increase with each age group.

Guardrails and barriers should be high enough to prevent the tallest children from falling over the top. For guardrails, the lower edge should be low enough so that the smallest children cannot walk under it. Barriers should be low enough to prevent the smallest child from getting under the barrier in any way. This is generally done by designing the barrier so that the small torso probe (see test methods in Appendix B) cannot pass under or through the barrier. Vertical infill for protective barriers may be preferable for younger children because the vertical components can be grasped at whatever height a child chooses as a handhold.

Guardrail and barrier recommendations are shown in Table 4. However, the recommendations do not apply if the guardrail or barrier would interfere with the intended use of the equipment, such as:

- Climbing equipment
- Platforms layered so that the fall height is:
  - Toddlers: 7 inches or less.
  - Preschool-age: 20 inches or less.
  - School-age: 30 inches or less.

Table 4. Guardrails and Barriers					
		A A THE STATE OF T			
	Guardrail	Barrier			
Protects against accidental falls from platform	Yes	Yes			
Protects against accidental falls from platform Discourages climbing over	Yes No	Yes Yes			
Protects against accidental falls from platform Discourages climbing over Protects against climbing through	* * * *	· = =			
Discourages climbing over	No	Yes			
Discourages climbing over Protects against climbing through	No	Yes Yes  A = 24" or higher			
Discourages climbing over Protects against climbing through  Toddlers	No No	Yes Yes  A = 24" or higher B < 3"			
Discourages climbing over Protects against climbing through  Toddlers  A Top edge distance from platform	No No Not recommended	Yes Yes  A = 24" or higher			
Discourages climbing over Protects against climbing through  Toddlers  A Top edge distance from platform B Bottom edge distance from platform	No No Not recommended Not recommended	Yes Yes  A = 24" or higher B < 3"			
Discourages climbing over Protects against climbing through  Toddlers  A Top edge distance from platform B Bottom edge distance from platform H Recommended when platform fall height is:	No No Not recommended Not recommended	Yes Yes  A = 24" or higher B < 3"			
Discourages climbing over Protects against climbing through  Toddlers  A Top edge distance from platform B Bottom edge distance from platform H Recommended when platform fall height is:  Preschool-age	No No Not recommended Not recommended Not recommended	Yes Yes  Yes  Yes  A = 24" or higher B < 3" H = 18" or higher			
Discourages climbing over Protects against climbing through  Toddlers  A Top edge distance from platform B Bottom edge distance from platform H Recommended when platform fall height is:  Preschool-age A Top edge distance from platform	No No Not recommended Not recommended Not recommended A = 29" or higher	Yes Yes Yes  A = 24" or higher B < 3" H = 18" or higher  A = 29" or higher			
Discourages climbing over Protects against climbing through  Toddlers  A Top edge distance from platform B Bottom edge distance from platform H Recommended when platform fall height is:  Preschool-age A Top edge distance from platform B Bottom edge distance from platform	No No No Not recommended Not recommended Not recommended  A = 29" or higher 9" < B ≤ 23"	Yes Yes Yes  A = 24" or higher B < 3" H = 18" or higher  A = 29" or higher B < 3.5"			
Discourages climbing over Protects against climbing through  Toddlers  A Top edge distance from platform B Bottom edge distance from platform H Recommended when platform fall height is:  Preschool-age A Top edge distance from platform B Bottom edge distance from platform H Recommended when platform fall height is:  School-age	No No No Not recommended Not recommended Not recommended  A = 29" or higher 9" < B ≤ 23"	Yes Yes Yes  A = 24" or higher B < 3" H = 18" or higher  A = 29" or higher B < 3.5"			
Discourages climbing over Protects against climbing through  Toddlers  A Top edge distance from platform B Bottom edge distance from platform H Recommended when platform fall height is:  Preschool-age  A Top edge distance from platform B Bottom edge distance from platform H Recommended when platform fall height is:	No No No No Not recommended Not recommended Not recommended  A = 29" or higher 9" < B ≤ 23" 20" < H ≤ 30"	Yes Yes Yes  A = 24" or higher B < 3" H = 18" or higher  A = 29" or higher B < 3.5" H > 30"			



#### 5.2 Access Methods to Play Equipment

Access to playground equipment can take many forms, such as conventional ramps, stairways with steps, and ladders with steps or rungs. Access may also be by means of climbing components, such as arch climbers, climbing nets, and tire climbers (see Figure 6).

As children develop, they gain better balance and coordination, so it is important to pick appropriate access methods based on the age group. Table 5 shows the most common methods of access and the youngest appropriate age group.

Access to platforms over 6 feet high (except for free-standing slides) should provide an intermediate standing surface so that the child can pause and make a decision to keep going up or find another way down. Children generally master access before egress, that is, they can go up before they can get back down a difficult component. Therefore, if there are more difficult access methods, it is important to have easier components for egress.

Table 5. Methods of access and egress						
Method of Access	Challenge Level	Appropriate for				
Ramps	Easiest	Toddlers +				
Straight stairways	Easy	Toddlers +				
Spiral stairways	Moderate	Toddlers* +				
Step ladders	Moderate	15 months* +				
Rung ladders	Moderate	Preschool* +				
Arch climbers	Difficult	Preschool* +				
Flexible climbers (nets, tires)	Difficult	Preschoof* +				
* only if an easy egress method is also provided						

### 5.2.1 Ramps, stairways, rung ladders, and step ladders

Ramps, stairways, rung ladders, and step ladders each have different recommendations for slope and tread dimension, but the steps or rungs always should be evenly spaced - even the spacing between the top step or rung and the surface of the platform. Table 6 contains recommended dimensions for: access slope; tread or rung width; tread depth; rung diameter; and vertical rise for rung ladders, step ladders, and stairways. Table 6 also contains slope and width recommendations for ramps. However, these recommendations are not intended to address ramps designed for access by wheel-chairs.

 Openings between steps or rungs and between the top step or rung and underside of a platform should prevent entrapment.

- When risers are closed, treads on stairways and ladders should prevent the accumulation of sand, water, or other materials on or between steps.
- Climbing equipment should allow children to descend as
  easily as they ascend. One way of implementing this recommendation is to provide an easier, alternate means of
  descent, such as another mode of egress, a platform, or
  another piece of equipment. For example, a stairway can
  be added to provide a less challenging mode of descent
  than a vertical rung ladder or flexible climbing device (see
  Table 5).
- For toddlers and preschool-age children, offering an easy
  way out is particularly important since their ability to
  descend climbing components develops later than their
  ability to climb up the same components.

Table 6. Recommended dimensions for access ladders, stairs, and ramps\* AGE OF INTENDED USER Type of Access Toddler School-age Preschool-age Ramps (not intended to meet ADA/ABA specifications) Slope (vertical:horizontal) < 1:8 ≤ 1:8 ≤ 1:8 ≥ 19" Width (single) ≥ 12" ≥ 16" ≥ 36" ≥ 30" ≥ 30" Width (double) Stairways ≤ 35° < 50° < 50° Slope Tread width (single) 12-21" ≥ 12" ≥ 16" Tread width (double) ≥ 30" ≥ 30" ≥ 36" ≥ 8" Tread depth (open riser) Not appropriate ≥ 7" Tread depth (closed riser) ≥ 8" ≥ 7" ≥ 8" Vertical rise ≤ 7" ≤ 9" ≤ 12" Step ladders Slope 35≤65° 50-75° 50-75° 12-21" 12-21" ≥ 16" Tread width (single) Tread width (double) Not appropriate Not appropriate ≥ 36" Not appropriate ≥ 7" ≥ 3" Tread depth (open riser) ≥ 7" 8" ≥ 6" Tread depth (closed riser) Vertical rise > 5 "and ≤ 7" ≤ 9" ≤ 12" Rung ladders Slope Not appropriate 75-90° 75-90° Rung width Not appropriate ≥ 12" ≥ 16" ≤ 12" Vertical rise Not appropriate ≤ 12" Rung diameter Not appropriate 0.95-1.55" 0.95-1.55" \* entrapment recommendations apply to all openings in access components

#### 5.2.2 Rungs and other hand gripping components

Unlike steps of stairways and step ladders that are primarily for foot support, rungs can be used for both foot and hand support.

- Rungs with round shapes are easiest for children to grip.
- All hand grips should be secured in a manner that prevents them from turning.
- Toddlers:
  - Handrails or other means of hand support should have a diameter or maximum cross-section between 0.60 and 1.20 inches.
  - A diameter or maximum cross-section of 0.90 inches is preferred to achieve maximal grip strength and benefit the weakest children.
- Preschool- and school-age:
  - Rungs, handrails, climbing bars, or other means of hand support intended for holding should have a diameter or maximum cross-section between 0.95 and 1.55 inches.
  - A diameter or maximum cross-section of 1.25 inches is preferred to achieve maximal grip strength and benefit the weakest children.

#### 5.2.3 Handrails

Handrails on stairways and step ladders are intended to provide hand support and to steady the user. Continuous handrails extending over the full length of the access should be provided on both sides of all stairways and step ladders, regardless of the height of the access. Rung ladders do not require handrails since rungs or side supports provide hand support on these more steeply inclined accesses.

#### 5.2.3.1 Handrail height

Handrails should be available for use at the appropriate height, beginning with the first step. The vertical distance between the top front edge of a step or ramp surface and the top surface of the handrail above it should be as follows:

- Toddlers: between 15 and 20 inches.
- · Preschool-age: between 22 and 26 inches.
- · School-age: between 22 and 38 inches.

#### 5.2.4 Transition from access to platform

Handrails or handholds are recommended at all transition points (the point where the child must move from the access component to the play structure platform).

- The handhold should provide support from the access component until the child has fully achieved the desired posture on the platform.
- Any opening between a handrail and an adjacent vertical structure (e.g., vertical support post for a platform or vertical slat of a protective barrier) should not pose an entrapment hazard.
- Access methods that do not have handrails, such as rung ladders, flexible climbers, arch climbers, and tire climbers, should provide hand supports for the transition between the top of the access and the platform.

#### 5.3 Major Types of Playground Equipment

#### 5.3.1 Balance beams

- · Balance beams should be no higher than:
- Toddlers: not recommended.
- Preschool-age: 12 inches.
- School-age: 16 inches.

#### 5.3.1.1 Fall height

The fall height of a balance beam is the distance between the top of the walking surface and the protective surfacing beneath it.

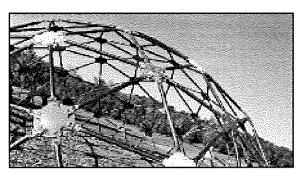
#### 5.3.2 Climbing and upper body equipment

Climbing equipment is generally designed to present a greater degree of physical challenge than other equipment on public playgrounds. This type of equipment requires the use of the hands to navigate up or across the equipment. "Climbers" refers to a wide variety of equipment, such as but not limited to:

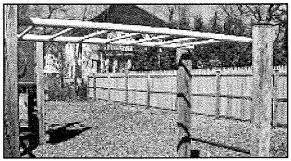
- Arch climbers
- Dome climbers
- · Flexible climbers (usually chain or net)
- · Parallel bars
- Sliding poles



Simple Arch Climber



Geodesic Dome Climber



Overhead Horizontal Ladder



Overhead Loop Ladder

Figure 7. Examples of climbers

- Spiral climbers
- Upper body equipment (horizontal overhead ladders, overhead rings, track ride).

School-age children tend to use climbing and upper body equipment more frequently and more proficiently than preschool children. Young preschool children may have difficulty using some climbers because they have not yet developed some of the physical skills necessary for certain climbing activities (balance, coordination, and upper body strength). Older preschool children (i.e., 4- and 5-year-olds) are beginning to use flexible climbers, arch climbers, and upper body devices.

#### 5.3.2.1 Design considerations

#### 5.3.2.1.1 Layout of climbing components

When climbing components are part of a composite structure, their level of challenge and method of use should be compatible with the traffic flow from nearby components. Upper body devices should be placed so that the swinging movement generated by children on this equipment cannot interfere with the movement of children on adjacent structures, particularly children descending on slides. The design of adjacent play structures should not facilitate climbing to the top support bars of upper body equipment.

#### 5.3.2.1.2 Fall Height

#### Climbers:

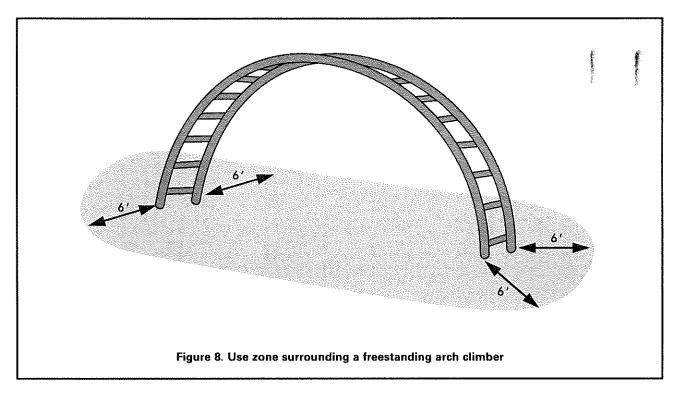
- Unless otherwise specified in this section, the fall height for climbers is the distance between the highest part of the climbing component and the protective surfacing beneath it.
- If the climber is part of a composite structure, the fall height is the distance between the highest part of the climber intended for foot support and the protective surfacing beneath it.
  - Toddlers: The maximum fall height for free standing and composite climbing structures should be 32 inches.

#### Upper Body Equipment:

 The fall height of upper body equipment is the distance between the highest part of the equipment and the protective surface below.

#### 5.3.2.1.3 Climbing rungs

Some of the access methods discussed in §5.2 are also considered climbing devices; therefore, the recommendations for the size of climbing rungs are similar.



- Rungs should be generally round.
- All rungs should be secured in a manner that prevents them from turning.
- Climbing rungs should follow the same diameter recommendations as in §5.2.2.

#### 5.3.2.1.4 Use zone

- The use zone should extend a minimum of 6 feet in all directions from the perimeter of the stand alone climber. See Figure 8.
- The use zone of a climber may overlap with neighboring equipment if the other piece of equipment allows overlapping use zones and
  - There is at least 6 feet between equipment when adjacent designated play surfaces are no more than 30 inches high; or
  - There is at least 9 feet between equipment when adjacent designated play surfaces are more than 30 inches high.

#### 5.3.2.1.5 Other considerations

• Climbers should not have climbing bars or other rigid structural components in the interior of the climber onto

which a child may fall from a height of greater than 18 inches. See Figure 9 for an example of a climber that DOES NOT follow this consideration.

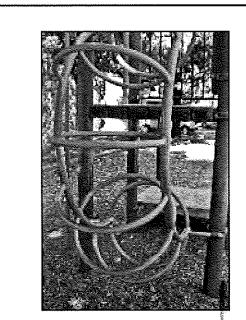
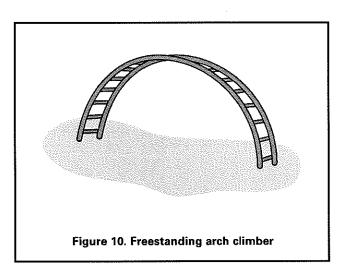


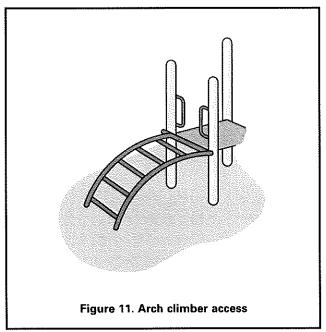
Figure 9: Climber with rigid structural components that DOES NOT meet 5.3.2.1.5

#### 5.3.2.2 Arch climbers

Arch climbers consist of rungs attached to convex side supports. They may be free standing (Figure 10) or be provided as a more challenging means of access to other equipment (Figure 11).

- Arch climbers should not be used as the sole means of access to other equipment for preschoolers.
- Free standing arch climbers are not recommended for toddlers or preschool-age children.
- The rung diameter and spacing of rungs on arch climbers should follow the recommendations for rung ladders in Table 6.





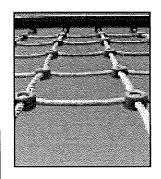




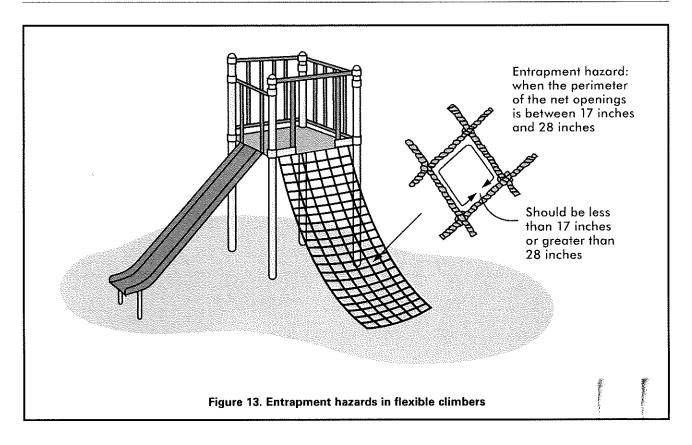
Figure 12. Examples of two- and three-dimensional flexible climbers

#### 5.3.2.3 Flexible climbers

Flexible climbers use a grid of ropes, chains, cables, or tires for climbing. Since the flexible parts do not provide a steady means of support, flexible climbers require more advanced balance abilities than rigid climbers.

Rope, chain, and cable generally form a net-like structure that may be either two or three dimensional. See Figure 12. Tire climbers may have the tires secured tread-to-tread to form a sloping grid, or the tires may be suspended individually by chains or other means.

- Flexible climbers that provide access to platforms should be securely anchored at both ends.
- When connected to the ground, the anchoring devices should be installed below ground level and beneath the base of the protective surfacing material.
- Connections between ropes, cables, chains, or between tires should be securely fixed.
- Flexible climbers are not recommended as the sole means of access to equipment intended for toddlers and preschool-age children.
- Free-standing flexible climbers are not recommended on playgrounds intended for toddlers and preschool children.
- Spacing between the horizontal and vertical components of a climbing grid should not form entrapment hazards.
- The perimeter of any opening in a net structure should be less than 17 inches or greater than 28 inches (see Figure 13).



#### 5.3.2.4 Horizontal (overhead) ladders

Horizontal (overhead) ladders are a type of climber designed to build upper body strength. They are designed to allow children to move across the ladder from end to end using only their hands.

Four-year-olds are generally the youngest children able to use upper body devices like these; therefore, horizontal ladders should not be used on playgrounds intended for toddlers and 3-year-olds. The recommendations below are designed to accommodate children ages 4 through 12 years.

- The first handhold on either end of upper body equipment should not be placed directly above the platform or climbing rung used for mount or dismount. This minimizes the risk of children impacting rigid access structures if they fall from the first handhold during mount or dismount.
- The horizontal distance out to the first handhold should be:
  - No greater than 10 inches but not directly above the platform when access is from a platform.
  - At least 8 inches but no greater than 10 inches when access is from climbing rungs.

- The space between adjacent rungs of overhead ladders should be greater than 9 inches to prevent entrapment.
- Horizontal ladders intended for preschool-age children should have rungs that are parallel to one another and evenly spaced.
- The maximum height of a horizontal ladder (i.e., measured from the center of the grasping device to the top of the protective surfacing below) should be:
  - Preschool-age (4 and 5 years): no more than 60 inches.
  - School-age: no more than 84 inches.
- The center-to-center spacing of horizontal ladder rungs should be as follows:
  - Preschool-age (4 and 5 years): no more than 12 inches.
  - School-age: no more than 15 inches.
- The maximum height of the take-off/landing platform above the protective surfacing should be:
  - Preschool-age (4 and 5 years): no more than 18 inches.
  - School-age: no more than 36 inches.

#### 5.3.2.5 Overhead rings

Overhead rings are similar to horizontal ladders in terms of the complexity of use. Therefore, overhead rings should not be used on playgrounds intended for toddlers and 3-yearolds. The recommendations below are designed to accommodate children 4 through 12 years of age.

Overhead rings differ from horizontal ladders because, during use, the gripped ring swings through an arc and reduces the distance to the gripping surface of the next ring; therefore, the spacing distance recommendations for horizontal ladders do not apply.

- The first handhold on either end of upper body equipment should not be placed directly above the platform or climbing rung used for mount or dismount. This minimizes the risk of children hitting rigid access structures if they fall from the first handhold during mount or dismount.
- The horizontal distance out to the first handhold should be:
  - No greater than 10 inches but not directly above the platform when access is from a platform.
  - At least 8 inches but no greater than 10 inches when access is from climbing rungs.
- The maximum height of overhead rings measured from the center of the grasping device to the protective surfacing should be:
  - Preschool-age (4 and 5 years): 60 inches.
  - School-age: 84 inches.
- If overhead swinging rings are suspended by chains, the maximum length of the chains should be 7 inches.
- The maximum height of the take-off/landing platform above the protective surfacing should be:
  - Preschool-age (4 and 5 years): no more than 18 inches.
  - School-age: no more than 36 inches.

#### 5.3.2.6 Sliding poles

Vertical sliding poles are more challenging than some other types of climbing equipment. They require upper body strength and coordination to successfully slide down the pole. Unlike other egress methods, there is no reverse or stop, so a child cannot change his or her mind. Children who start a sliding pole must have the strength to slide the whole way or they will fall.

 Sliding poles are not recommended for toddlers or preschool-age children since they generally don't have the upper body and/or hand strength to slide.

- Sliding poles should be continuous with no protruding welds or seams along the sliding surface.
- The pole should not change direction along the sliding portion.
- The horizontal distance between a sliding pole and any structure used for access to the sliding pole should be between 18 inches and 20 inches.
- The pole should extend at least 60 inches above the level of the platform or structure used for access to the sliding pole.
- The diameter of sliding poles should be no greater than 1.9 inches.
- Sliding poles and their access structures should be located so that traffic from other events will not interfere with the users during descent.
- Upper access should be on one level only.
- The upper access area through the guardrail or barrier should be 15 inches wide at most.

#### 5.3.2.6.1 Fall height

- For sliding poles accessed from platforms, the fall height is the distance between the platform and the protective surfacing beneath it.
- For sliding poles not accessed from platforms, the fall height is the distance between a point 60 inches below the highest point of the pole and the protective surfacing beneath it.
- The top of the sliding pole's support structure should not be a designated play surface.

#### 5.3.2.7 Track rides

Track rides are a form of upper body equipment where the child holds on to a handle or other device that slides along a track above his or her head. The child then lifts his or her feet and is carried along the length of the track. Track rides require significant upper body strength and the judgment to know when it is safe to let go. These are skills not developed until children are at least school-age; therefore, CPSC staff recommends:

- Track rides should not be used on playgrounds for toddlers and preschool-age children.
- Track rides should not have any obstacles along the path of the ride, including anything that would interfere in the take-off or landing areas.

- Two track rides next to each other should be at least 4 feet apart.
- The handle should be between 64 inches and 78 inches from the surfacing and follow the gripping recommendations in §5.2.2.
- Nothing should ever be tied or attached to any moving part of a track ride.
- · Rolling parts should be enclosed to prevent crush hazards.

#### 5.3.2.7.1 Fall height

- The fall height of track ride equipment is the distance between the maximum height of the equipment and the protective surface beneath it.
- Equipment support posts with no designated play surfaces are exempt from this requirement.

#### 5.3.3 Log rolls

Log rolls help older children master balance skills and increase strength. Children must balance on top of the log as they spin it with their feet. See Figure 14.

- Log rolls are not recommended for toddlers and preschool-age children. These children generally do not possess the balance, coordination, and strength to use a log roll safely.
- · Log rolls should have handholds to assist with balance.
- The handholds should follow the guidelines in §5.2.2.
- The highest point of the rolling log should be a maximum of 18 inches above the protective surface below.
- When not part of a composite structure, the use zone may overlap with neighboring equipment if the other piece of equipment allows overlapping use zones (see §5.3.9) and
  - There is at least 6 feet between equipment when adjacent designated play surfaces are no more than 30 inches high; or
  - There is at least 9 feet between equipment when adjacent designated play surfaces are more than 30 inches high.

#### 5.3.3.1.1 Fall height

The fall height of a log roll is the distance between the highest portion of the rolling log and the protective surfacing beneath it.



Figure 14. Log roll

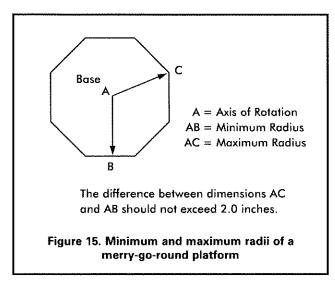
#### 5.3.4 Merry-go-rounds

Merry-go-rounds are the most common rotating equipment found on public playgrounds. Children usually sit or stand on the platform while other children or adults push the merry-go-round to make it rotate. In addition, children often get on and off the merry-go-round while it is in motion. Merry-go-rounds may present a physical hazard to preschool-age children who have little or no control over such products once they are in motion. Therefore, children in this age group should always be supervised when using merry-go-rounds.

The following recommendations apply when the merry-goround is at least 20 inches in diameter.

- Merry-go-rounds should not be used on playgrounds intended for toddlers.
- The standing/sitting surface of the platform should have a maximum height of:
  - Preschool: 14 inches above the protective surface.
  - School-age: 18 inches above the protective surface.
- The rotating platform should be continuous and approximately circular.
- The surface of the platform should not have any openings between the axis and the periphery that permit a rod having a diameter of 5/16 inch to penetrate completely through the surface.

 The difference between the minimum and maximum radii of a non-circular platform should not exceed 2.0 inches (Figure 15).



- The underside of the perimeter of the platform should be no less than 9 inches above the level of the protective surfacing beneath it.
- There should not be any accessible shearing or crushing mechanisms in the undercarriage of the equipment.
- Children should be provided with a secure means of holding on. Where handgrips are provided, they should conform to the general recommendations for hand gripping components in §5.2.2.
- No components of the apparatus, including handgrips, should extend beyond the perimeter of the platform.
- The rotating platform of a merry-go-round should not have any sharp edges.
- A means should be provided to limit the peripheral speed of rotation to a maximum of 13 ft/sec.
- Merry-go-round platforms should not have any up and down (oscillatory) motion.

#### 5.3.4.1 Use zone

- The use zone should extend a minimum of 6 feet beyond the perimeter of the platform.
- The use zone may not overlap other use zones, unless the rotating equipment is less than 20 inches in diameter and the adjacent equipment allows overlap.

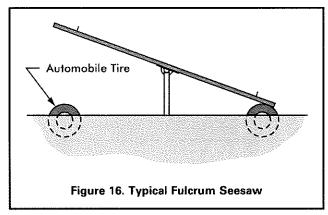
#### 5.3.4.2 Fall height

The fall height for a merry-go-round is the distance between the perimeter of the platform where a child could sit or stand and the protective surfacing beneath it.

#### 5.3.5 Seesaws

#### 5.3.5.1 Fulcrum seesaws

The typical seesaw (also known as a "teeter totter") consists of a board or pole with a seat at each end supported at the center by a fulcrum. See Figure 16. Because of the complex way children are required to cooperate and combine their actions, fulcrum seesaws are not recommended for toddlers or preschool-age children.



- The fulcrum should not present a crush hazard.
- Partial car tires, or some other shock-absorbing material, should be embedded in the ground underneath the seats, or secured on the underside of the seats. This will help prevent limbs from being crushed between the seat and the ground, as well as cushion the impact.
- The maximum attainable angle between a line connecting the seats and the horizontal is 25°.
- · There should not be any footrests.

#### 5.3.5.2 Spring-centered seesaws

Preschool-age children are capable of using spring-centered seesaws because the centering device prevents abrupt contact with the ground if one child dismounts suddenly. Spring-centered seesaws also have the advantage of not requiring two children to coordinate their actions in order to play safely. Spring-centered seesaws should follow the recommendations for spring rockers including the use of footrests (§5.3.7).

### 5.3.5.3 Use zone for fulcrum and spring-centered seesaws

- The use zone should extend a minimum of 6 feet from each outside edge of the seesaw.
- The use zone may overlap with neighboring equipment if the other piece of equipment allows overlapping use zones and
  - There is at least 6 feet between equipment when adjacent designated play surfaces are no more than 30 inches high; or
  - There is at least 9 feet between equipment when adjacent designated play surfaces are more than 30 inches high.

#### 5.3.5.4 Handholds

- Handholds should be provided at each seating position for gripping with both hands and should not turn when grasped.
- Handholds should not protrude beyond the sides of the seat.

#### 5.3.5.5 Fall height

The fall height for a seesaw is the distance between the highest point any part of the seesaw can reach and the protective surfacing beneath it.

#### 5.3.6 Slides

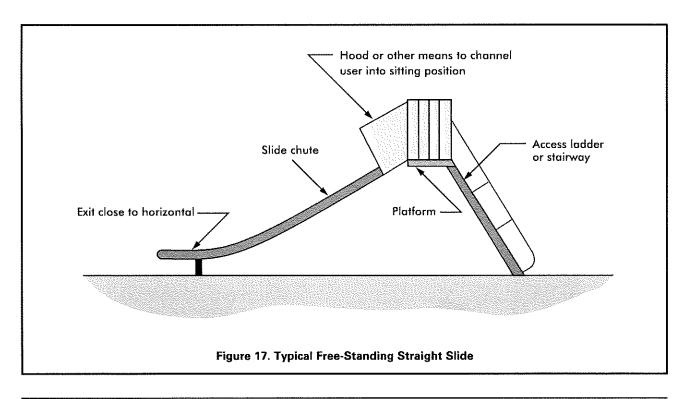
Children can be expected to descend slide chutes in many different positions, rather than always sitting and facing forward as they slide. These other positions should be discouraged at all times to minimize injuries.



Slides may provide a straight, wavy, or spiral descent either by means of a tube or an open slide chute. They may be either free-standing (Figure 17), part of a composite structure, or built on the grade of a natural or man-made slope (embankment slide). Regardless of the type of slide, avoid using bare metals on the platforms, chutes, and steps. When exposed to direct sunlight the bare metal may reach temperatures high enough to cause serious contact burn injuries in a matter of seconds. Provide shade for bare metal slides or use other materials that may reduce the surface temperature such as, but not limited to, plastic or coated metal.

#### 5.3.6.1 Slide access

Access to a stand-alone slide generally is by means of a ladder with rungs, steps, or a stairway with steps. Slides may also be part of a composite play structure, so children will gain access from other parts of the structure. Embankment slides use the ground for access.



#### 5.3.6.2 Slide platform

All slides should be provided with a platform with sufficient length to facilitate the transition from standing to sitting at the top of the inclined sliding surface. Embankment slides are exempt from platform requirements because they are on ground level; however, they should not have any spaces or gaps as noted below.

The platform should:

- · Be at least 19 inches deep for toddlers.
- Be at least 14 inches deep for preschool-age and school-age children.
- · Be horizontal.
- · Be at least as wide as the slide chute.
- · Be surrounded by guardrails or barriers.
- Conform to the same recommendations as general platforms given in §5.1.1.
- Not have any spaces or gaps that could trap strings, clothing, body parts, etc. between the platform and the start of the slide chute.
- Provide handholds to facilitate the transition from standing to sitting and decrease the risk of falls (except tube slides where the tube perimeter provides hand support). These should extend high enough to provide hand support for the largest child in a standing position, and low enough to provide hand support for the smallest child in a sitting position.
- Provide a means to channel a user into a sitting position at the entrance to the chute, such as a guardrail, hood, or other device that discourages climbing.

#### 5.3.6.3 Slide chutes

#### 5.3.6.3.1 Embankment slides

- The slide chute of an embankment slide should have a maximum height of 12 inches above the underlying ground surface. This design basically eliminates the hazard of falls from elevated heights.
- Embankment slides should follow all of the recommendations given for straight slides where applicable (e.g., side height, slope, use zone at exit, etc.).
- There should be some means provided at the slide chute entrance to minimize the use of embankment slides by children on skates, skateboards, or bicycles.

#### 5.3.6.3.2 Roller slides

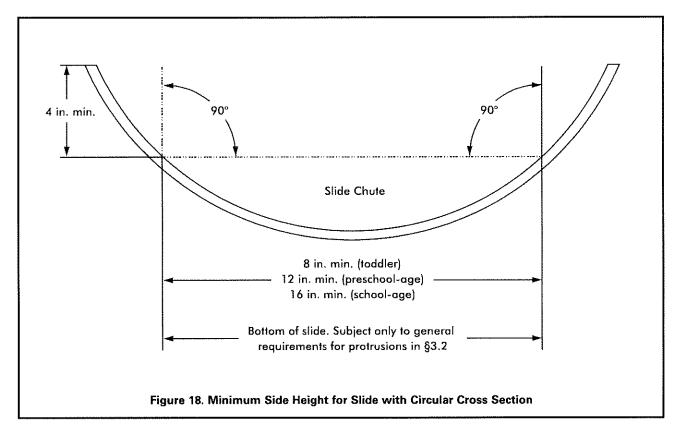
- Roller slides should meet applicable recommendations for other slides (e.g., side height, slope, use zone at exit, etc.).
- The space between adjacent rollers and between the ends of the rollers and the stationary structure should be less than 3/16 inch.
- Frequent inspections are recommended to insure that there are no missing rollers or broken bearings and that the rollers roll.

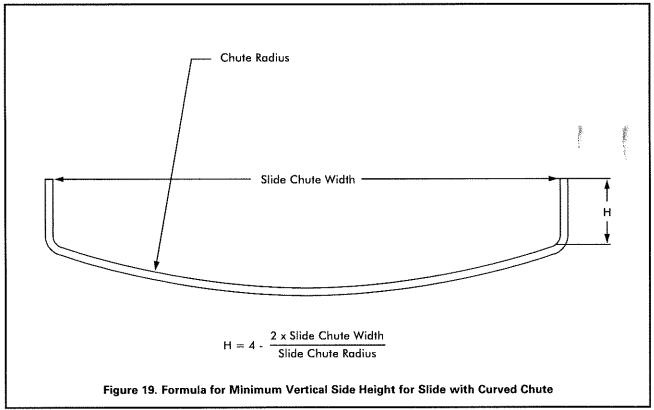
#### 5.3.6.3.3 Spiral slides

- Spiral slides should follow the recommendations for straight slides where applicable (e.g., side height, slope, use zone at exit, etc.).
- Special attention should be given to design features which may present problems unique to spiral slides, such as lateral discharge of the user.
- Toddlers and preschool-age children have less ability to maintain balance and postural control, so only short spiral slides (one 360° turn or less) are recommended for these age groups.

#### 5.3.6.3.4 Straight slides

- Flat open chutes should have sides at least 4 inches high extending along both sides of the chute for the entire length of the inclined sliding surface.
- The sides should be an integral part of the chute, without any gaps between the sides and the sliding surface. (This does not apply to roller slides).
- Slides may have an open chute with a circular, semicircular or curved cross section provided that:
  - A. The vertical height of the sides is no less than 4 inches when measured at right angles to a horizontal line that is 8 inches long when the slide is intended for toddlers, 12 inches long when the slide is intended for preschool-age children, and 16 inches long when the slide is intended for school-age children (Figure 18);
  - B. For any age group, the vertical height of the sides is no less than 4 inches minus two times the width of the slide chute divided by the radius of the slide chute curvature (Figure 19).





#### · For toddlers:

- The average incline of a slide chute should be no more than 24° (that is, the height to horizontal length ratio shown in Figure 20 does not exceed 0.445).
- No section of the slide chute should have a slope greater than 30°.
- The slide chute should be between 8 and 12 inches wide.
- · For preschool- and school-age children:
  - The average incline of a slide chute should be no more than 30° (that is, the height to horizontal length ratio shown in Figure 20 does not exceed 0.577).
  - No section of the slide chute should have a slope greater than 50°.

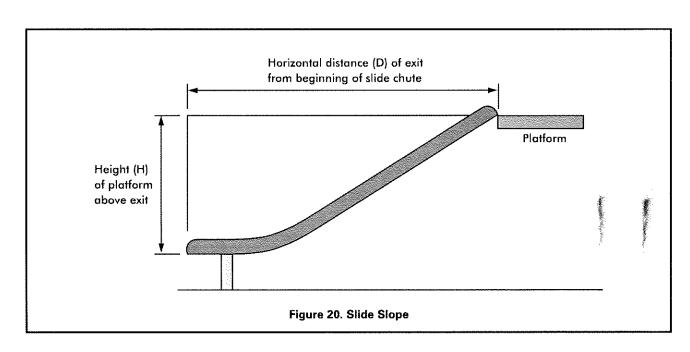
#### 5.3.6.3.5 Tube slides

- Tube slides should meet all the applicable recommendations for other slides (e.g., side height, slope, use zone at exit, etc.).
- Means, such as barriers or textured surfaces, should be provided to prevent sliding or climbing on the top (outside) of the tube.
- The minimum internal diameter of the tube should be no less than 23 inches.
- Supervisors should be aware of children using tube slides since the children are not always visible.

#### 5.3.6.4 Chute exit region

All slides should have an exit region to help children maintain their balance and facilitate a smooth transition from sitting to standing when exiting. The chute exit region should:

- Be between 0 and -4° as measured from a plane parallel to the ground.
- Have edges that are rounded or curved to prevent lacerations or other injuries that could result from impact with a sharp or straight edge.
- For toddlers the chute exit region should:
  - Be between 7 and 10 inches long if any portion of the chute exceeds a 24° slope.
  - Be no more than 6 inches above the protective surfacing.
  - Have a transition from the sliding portion to the exit region with a radius of curvature of at least 18 inches.
- For preschool- and school-age the chute exit region should:
  - Be at least 11 inches long.
  - Be no more than 11 inches above the protective surfacing if the slide is no greater than 4 feet high.
  - Be at least 7 inches but not more than 15 inches above the protective surfacing if the slide is over 4 feet high.



#### 5.3.6.5 Slide use zone

#### Toddlers:

- In a limited access environment
  - The use zone should be at least 3 feet around the perimeter of the slide.
  - The area at the end of the slide should not overlap with the use zone for any other equipment.
- · In public areas with unlimited access
  - For a stand-alone slide, the use zone should be at least 6 feet around the perimeter.
  - For slides that are part of a composite structure, the minimum use zone between the access components and the side of the slide chute should be 3 feet.
  - The use zone at the end of the slide should be at least 6 feet from the end of the slide and not overlap with the use zone for any other equipment.

#### Preschool- and school-age (see Figure 21):

- The use zone in front of the access and to the sides of a slide should extend a minimum of 6 feet from the perimeter of the equipment. This recommendation does not apply to embankment slides or slides that are part of a composite structure (see §5.3.9).
- The use zone in front of the exit of a slide should never overlap the use zone of any other equipment; however, two or more slide use zones may overlap if their sliding paths are parallel.
- For slides less than or equal to 6 feet high, the use zone in front of the exit should be at least 6 feet.
- For slides greater than 6 feet high, the use zone in front of the exit should be at least as long as the slide is high up to a maximum of 8 feet.

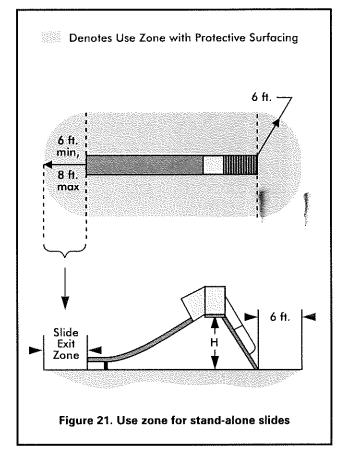
#### 5.3.6.6 Fall height

The fall height for slides is the distance between the transition platform and the protective surfacing beneath it.

#### 5.3.6.7 Entanglement hazard

Children have suffered serious injuries and died by getting parts of their clothing tangled on protrusions or gaps on slides.

To reduce the chance of clothing entanglement:



- Projections up to 3 inches in diameter should not stick up more than 1/8 inch from the slide.
- There should be no gaps at the tops of slides where the slide chute connects with the platform that can entangle clothing or strings.
- See Appendix B for full recommendations and details of the protrusion test procedure.

#### 5.3.6.8 Other sliding equipment

Equipment where it is foreseeable that a primary use of the component is sliding should follow the same guidelines for entanglement that are in 5.3.6.7.

#### 5.3.7 Spring rockers

Toddlers and preschool-age children enjoy the bouncing and rocking activities presented by spring rockers, and they are the primary users of rocking equipment. See Figure 22. Older children may not find it challenging enough.

 Seat design should not allow the rocker to be used by more than the intended number of users.

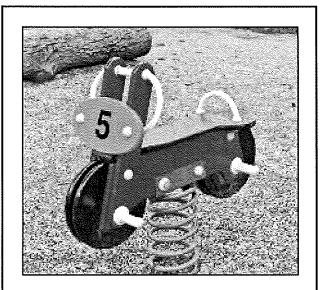


Figure 22. Example of spring rocker

- For toddlers:
  - The seat should be between 12 and 16 inches high.
  - Spring rockers with opposing seats intended for more than one child should have at least 37 inches between the seat centers.
- For preschoolers:
  - The seat should be between 14 and 28 inches high.
- Each seating position should be equipped with handgrips and footrests. The diameter of handgrips should follow the recommendations for hand gripping components in §5.2.2.
- The springs of rocking equipment should minimize the possibility of children crushing their hands or their feet between coils or between the spring and a part of the rocker.
- The use zone should extend a minimum of 6 feet from the "at rest" perimeter of the equipment.
- The use zone may overlap with neighboring equipment if the other piece of equipment allows overlapping use zones and
  - There is at least 6 feet between equipment when adjacent designated play surfaces are no more than 30 inches high; or

- There is at least 9 feet between equipment when adjacent designated play surfaces are more than 30 inches high; and
- The spring rocker is designed to be used from a seated position.

#### 5.3.7.1 Fall height

The fall height of spring rockers is the distance between either (1) the highest designated playing surface or (2) the seat, whichever is higher, and the protective surfacing beneath it.

#### 5.3.8 Swings

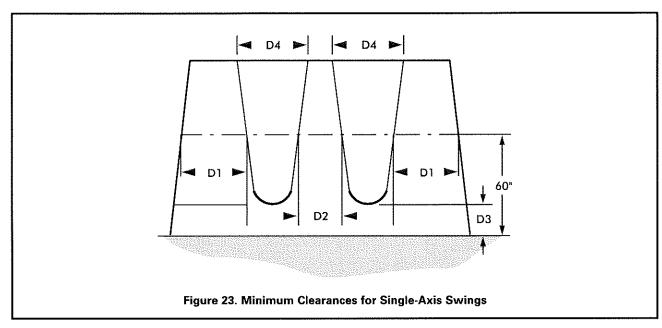
Children of all ages generally enjoy the sensations created while swinging. Mostly they sit on the swings; however, it is common to see children jumping off swings. Younger children also tend to swing on their stomachs, and older children may stand on the seats. To prevent injuries, these behaviors should be discouraged.

Swings may be divided into two distinct types:

- Single axis: Sometimes called a to-fro swing. A single-axis swing is intended to swing back and forth in a single plane and generally consists of a seat supported by at least two suspending members, each of which is connected to a separate pivot on an overhead structure.
- Multi-axis: A multi-axis swing consists of a seat (generally a tire) suspended from a single pivot that permits it to swing in any direction.

#### 5.3.8.1 General swing recommendations

- Hardware used to secure the suspending elements to the swing seat and to the supporting structure should not be removable without the use of tools.
- S-hooks are often part of a swing's suspension system, either attaching the suspending elements to the overhead support bar or to the swing seat. Open S-hooks can catch a child's clothing and present a strangulation hazard. Shooks should be pinched closed. An S-hook is considered closed if there is no gap or space greater than 0.04 inches (about the thickness of a dime).
- Swings should be suspended from support structures that discourage climbing.
- A-frame support structures should not have horizontal cross-bars.



Reason	imension	Toddler Full bucket	Preschool-age Belt	School-age Belt
Minimizes collisions between a swing and the supporting structure	D1	20 inches	30 inches	30 inches
Minimizes collisions between swings	D2	20 inches	24 inches	24 inches
Allows access	D3	24 inches	12 inches	12 inches

- Fiber ropes are not recommended as a means of suspending swings since they may degrade over time.
- Swing structures should be located away from other
  equipment or activities to help prevent young children
  from inadvertently running into the path of moving
  swings. Additional protection can be provided by means
  of a low blockade such as a fence or hedge around the
  perimeter of the swing area. The blockade should not be
  an obstacle within the use zone of a swing structure or
  hamper supervision by blocking visibility.

#### 5.3.8.2 Fall height

The fall height for swings is the vertical distance between the pivot point and the protective surfacing beneath it.

5.3.8.3 Single-axis swings

#### 5.3.8.3.1 Belt seats used without adult assistance

- The use zone to the front and rear of single-axis swings should never overlap the use zone of another piece of equipment.
- To minimize the likelihood of children being struck by a moving swing, it is recommended that no more than two single-axis swings be hung in each bay of the supporting structure.

- Swings should not be attached to composite structures.
- Swing seats should be designed to accommodate no more than one user at any time.
- Lightweight rubber or plastic swing seats are recommended to help reduce the severity of impact injuries. Wood or metal swing seats should be avoided.
- Edges of seats should have smoothly finished or rounded edges and should conform to the protrusion recommendations in 5.3.8.5.
- If loose-fill material is used as a protective surfacing, the height recommendations should be determined after the material has been compressed.

#### 5.3.8.3.2 Full bucket seat swings

Full bucket seat swings are similar to single-axis swings since they move in a to-fro direction. However, full bucket seat swings are intended for children under 4 years of age to use with adult assistance.

- The seats and suspension systems of these swings, including the related hardware, should follow all of the criteria for conventional single axis swings.
- Full bucket seats are recommended to provide support on all sides of a child and between the legs of the occupant (see Figure 24).

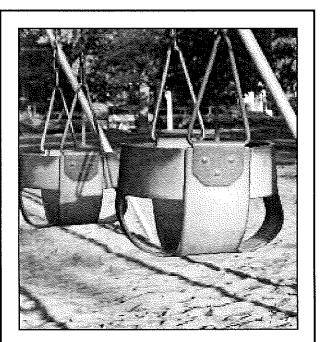


Figure 24. Example of full bucket seat swings

- The full bucket seat materials should not present a strangulation hazard, such as might be presented with a rope or chain used as part of the seat.
- Openings in swing seats should conform to the entrapment criteria in §3.3.
- Full bucket seat swings should be suspended from structures that are separate from those for other swings, or at least suspended from a separate bay of the same structure.
- Full bucket seat swings should not allow the child to enter and exit alone.
- Pivot points should be more than 47 inches but no more than 96 inches above the protective surfacing.

### 5.3.8.3.3 Use zone for single-axis swings – belt and full

The use zone in front of and behind the swing should be greater than to the sides of such a swing since children may deliberately attempt to exit from a single-axis swing while it is in motion. See Figure 25.

- The use zone for a belt swing should extend to the front and rear of a single-axis swing a minimum distance of twice the vertical distance from the pivot point and the top of the protective surface beneath it.
- The use zone for a full bucket swing should extend to the front and rear a minimum of twice the vertical distance from the top of the occupant's sitting surface to the pivot point.
- The use zone in front of and behind swings should never overlap with any other use zone.
- The use zone to the sides of a single-axis swing should extend a minimum of 6 feet from the perimeter of the swing. This 6-foot zone may overlap that of an adjacent swing structure or other playground equipment structure.

#### 5.3.8.4 Multi-axis (tire) swings

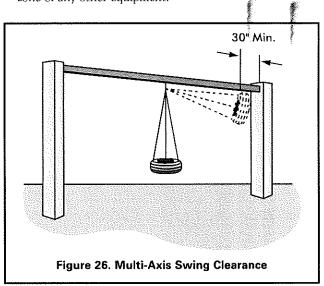
Tire swings are usually suspended in a horizontal orientation using three suspension chains or cables connected to a single swivel mechanism that permits both rotation and swinging motion in any axis.

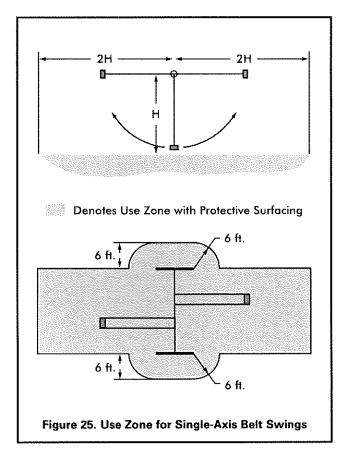
- A multi-axis tire swing should not be suspended from a structure having other swings in the same bay.
- Attaching multi-axis swings to composite structures is not recommended.

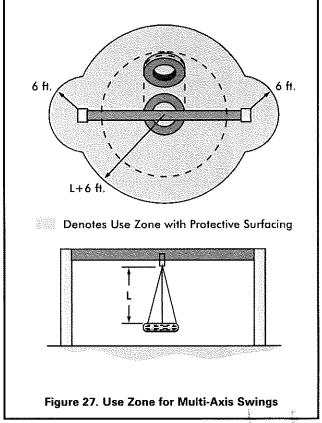
- To minimize the hazard of impact, heavy truck tires should be avoided. Further, if steel-belted radials are used, they should be closely examined to ensure that there are no exposed steel belts or wires that could be a potential protrusion or laceration hazard. Plastic materials can be used as an alternative to simulate actual automobile tires.
   Drainage holes should be provided in the underside of the tire.
- Pay special attention to maintenance of the hanger mechanism because the likelihood of failure is higher for tire swings due to the added stress of rotational movement and multiple occupants.
- The hanger mechanisms for multi-axis tire swings should not have any accessible crush points.
- The minimum clearance between the seating surface of a tire swing and the uprights of the supporting structure should be 30 inches when the tire is in a position closest to the support structure (Figure 26).
- The minimum clearance between the bottom of the seat and the protective surface should not be less than 12 inches.

#### 5.3.8.4.1 Multi-axis swing use zones

• The use zone should extend in any direction from a point directly beneath the pivot point for a minimum distance of 6 feet plus the length of the suspending members (see Figure 27). This use zone should never overlap the use zone of any other equipment.







 The use zone should extend a minimum of 6 feet from the perimeter of the supporting structure. This 6-foot zone may overlap that of an adjacent swing structure or other playground equipment structure.

### 5.3.8.5 Protrusions on suspended members of swing assemblies

Protrusions on swings are extremely hazardous because of the potential for impact incidents. Nothing, including bolts or other parts, on the front, back, or underside of a swing should stick out more than 1/8 of an inch. See test procedures in Appendix B.

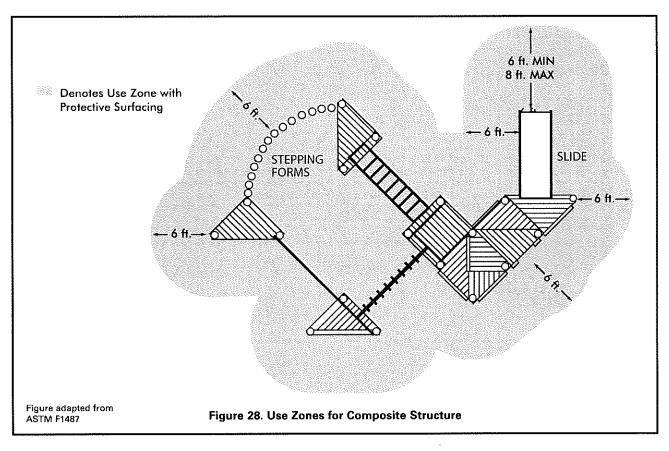
### 5.3.9 Fall height and use zones for composite structure

When two or more complementary play components are linked together in a composite structure (e.g., combination climber, slide, and horizontal ladder), the use zone should extend a minimum of 6 feet from the external perimeter of the structure (see Figure 28). Where slides are attached to a platform higher than 6 feet from the protective surfacing, the use zone may need to extend further in front of the slide (see §5.3.6.5).

### 5.3.10 Fall height and use zones not specified elsewhere

Most playground equipment belongs in one of the categories listed above. If it does not, the following general recommendations should be applied:

- The fall height of a piece of playground equipment is the distance between the highest designated playing surface and the protective surface beneath it.
- The use zone should extend a minimum of 6 feet in all directions from the perimeter of the equipment.
- The use zones of two stationary pieces of playground equipment that are positioned adjacent to one another may overlap if the adjacent designated play surfaces of each structure are no more than 30 inches above the protective surface and the equipment is at least 6 feet apart.
- If adjacent designated play surfaces on either structure exceed a height of 30 inches, the minimum distance between the structures should be 9 feet.
- · Use zones should be free of obstacles.



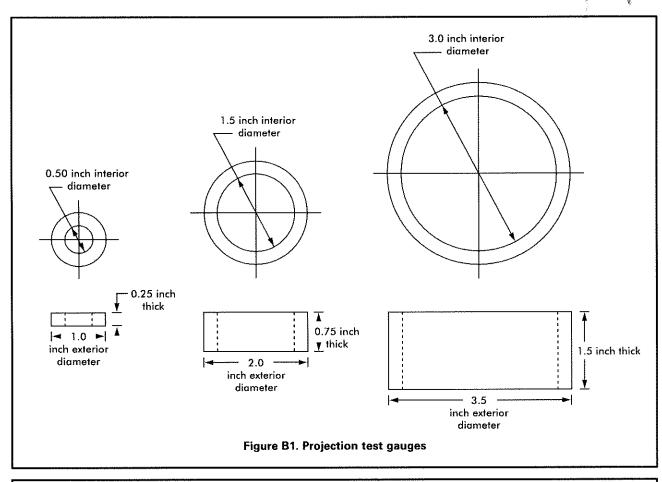
### APPENDIX A: SUGGESTED GENERAL MAINTENANCE CHECKLISTS

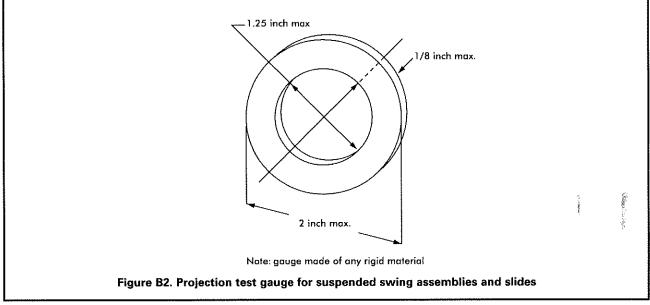
Surfacing (§2.4)	Security of Hardware (§2.5)			
Adequate protective surfacing under and around the equipment.	There are no loose fastening devices or worn connections.			
Install/replace surfacing	Replace fasteners			
Surfacing materials have not deteriorated.	Other maintenance:			
Replace surfacing	Moving parts, such as swing hangers, merry-goround bearings, and track rides, are not worn.			
U Other maintenance:	Replace part			
Loose-fill surfacing materials have no foreign objects or debris.	Other maintenance:			
Remove trash and debris	Durability of Equipment (§2.5)			
Loose-fill surfacing materials are not compacted.	There are no rust, rot, cracks, or splinters on any			
Rake and fluff surfacing	equipment (check carefully where it comes in contact with the ground).  There are no broken or missing components on the			
Loose-fill surfacing materials have not been displaced under heavy use areas such as under swings				
or at slide exits.	equipment (e.g., handrails, guardrails, protective			
Rake and fluff surfacing	barriers, steps, or rungs).			
Drainage (§2.4)	There are no damaged fences, benches, or signs on the playground.			
The entire play area has satisfactory drainage, espe-	All equipment is securely anchored.			
cially in heavy use areas such as under swings and at slide exits.	Leaded Paint (§2.5.4)			
☐ Improve drainage	Paint (especially lead paint) is not peeling, cracking,			
Other maintenance:	chipping, or chalking.			
General Hazards	There are no areas of visible leaded paint chips or accumulation of lead dust.			
There are no sharp points, corners or edges on the equipment (§3.4).	Mitigate lead paint hazards			
There are no missing or damaged protective caps or	General Upkeep of Playgrounds (§4)			
plugs (§3.4).	There are no user modifications to the equipment,			
There are no hazardous protrusions (§3.2 and Appendix B).	such as strings and ropes tied to equipment, swi looped over top rails, etc.			
There are no potential clothing entanglement haz-	Remove string or rope			
ards, such as open S-hooks or protruding bolts	Correct other modification			
(§2.5.2, §3.2, §5.3.8.1 and Appendix B).  There are no crush and shearing points on exposed moving parts (§3.1).	The entire playground is free from debris or litter such as tree branches, soda cans, bottles, glass, etc.			
There are no trip hazards, such as exposed footings	Clean playground			
or anchoring devices and rocks, roots, or any other	There are no missing trash receptacles.			
obstacles in a use zone (§3.6).	Replace trash receptacle			
	Trash receptacles are not full.			
NOTES	Empty trash			
NOTES:	INCRECTION DV			
DATE OF INSPECTION:	INSPECTION BY:			

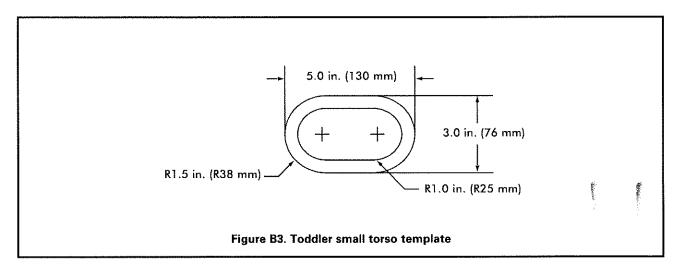
# **Routine Inspection and Maintenance Issues** Broken equipment such as loose bolts, missing end caps, cracks, etc. Broken glass & other trash Cracks in plastics Loose anchoring Hazardous or dangerous debris ☐ Insect damage Problems with surfacing ☐ Displaced loose-fill surfacing (see Section 4.3) ☐ Holes, flakes, and/or buckling of unitary surfacing User modifications (such as ropes tied to parts or equipment rearranged) Vandalism ☐ Wood splitting □ Rusted or corroded metals Rot

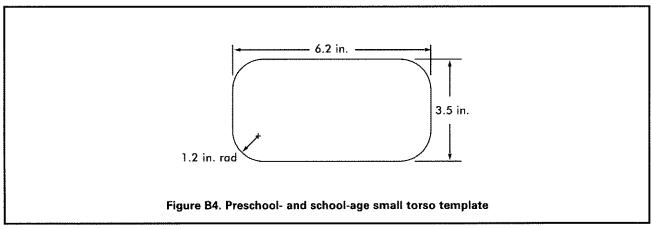
### APPENDIX B: PLAYGROUND TESTING

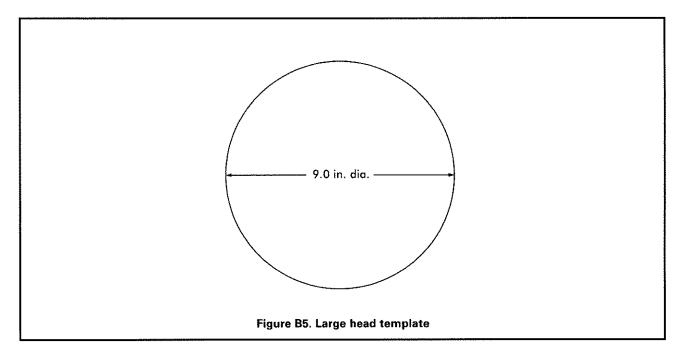
#### **B.1 Templates, Gauges, and Testing Tools**

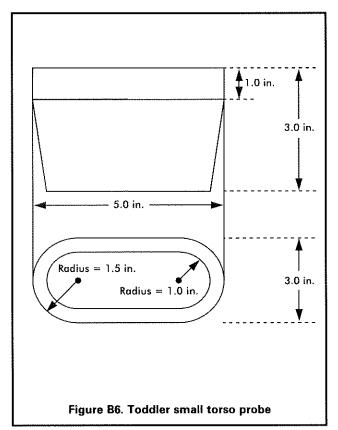


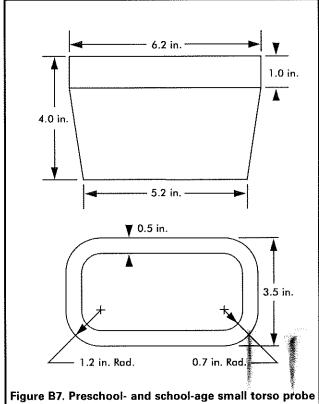


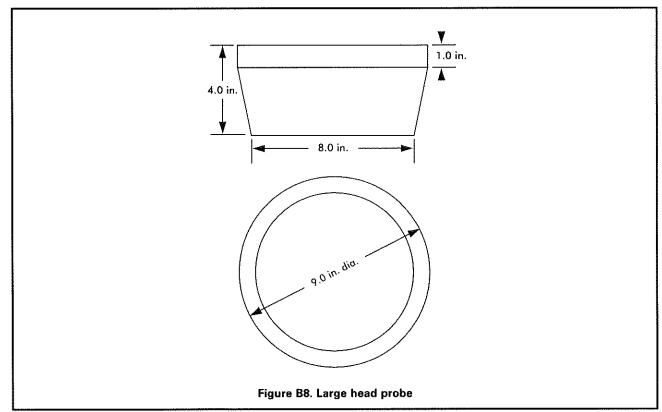


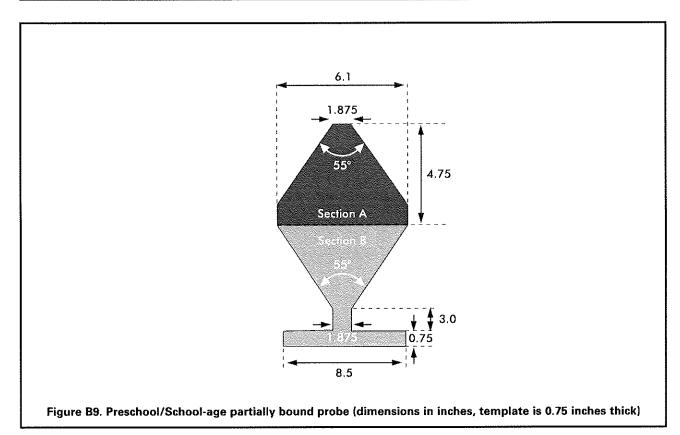


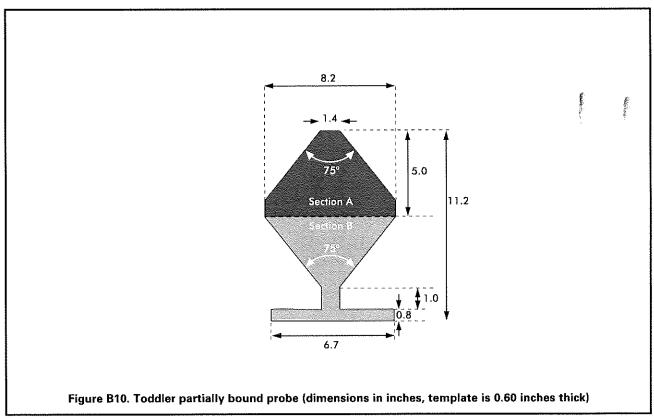












#### APPENDIX B: PLAYGROUND TESTING

#### **B.2 Test Methods**

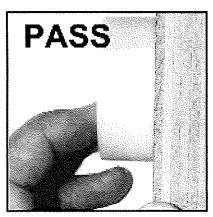
### B.2.1 Determining whether a projection is a protrusion

#### B.2.1.1 Test procedure

- Step 1: Successively place each projection test gauge (see Figure B1) over any projection
- Step 2: Visually determine if the projection penetrates through the hole and beyond the face of the gauge (see Figure B11 below).

**Pass:** A projection that does not extend beyond the face of the gauge passes.

**Fail:** A projection that extends beyond the face of any one of the gauges is considered a hazardous protrusion and should be eliminated.



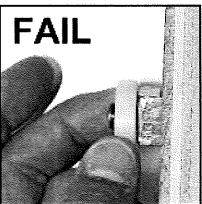


Figure B11. Determining whether a projection is a protrusion

### B.2.2 Projections on suspended members of swing assemblies

Given the potential for impact incidents, projections on swings can be extremely hazardous. A special test gauge (see Figure B2) and procedure are recommended. When tested, no bolts or components in the potential impact region on suspended members should extend through the hole beyond the face of the gauge.

#### B.2.2.1 Test procedure

- Step 1: Hold the gauge (Figure B2) vertically with the axis through the hole parallel to the swing's path of travel.
- Step 2: Place the gauge over any projections that are exposed during the swing's path of travel.
- Step 3: Visually determine if the projection penetrates through the hole and beyond the face of the gauge.
  - Pass: A projection that does not extend beyond the face of the gauge passes.
  - **Fail:** A projection that extends beyond the face of the gauge is considered a hazardous protrusion and should be eliminated.

#### **B.2.3 Projections on slides**

To minimize the likelihood of clothing entanglement on slides, projections that (1) fit within any one of the three gauges shown in Figure B1 and (2) have a major axis that projects away from the slide bed should not have projections greater than 1/8 inch perpendicular to the plane of the surrounding surface (Figure B12).

#### B.2.3.1 Test procedure

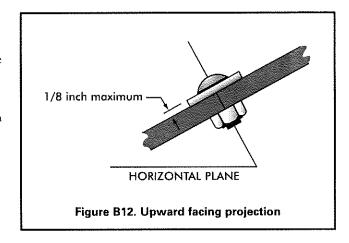
- Step 1: Identify all projections within the shaded area shown in Figure B13.
- Step 2: Determine which, if any, fit inside the projection test gauges (Figure B1).
- Step 3: Place the swing and slide projection gauge (Figure B2) next to the projection to check the height of the projection.

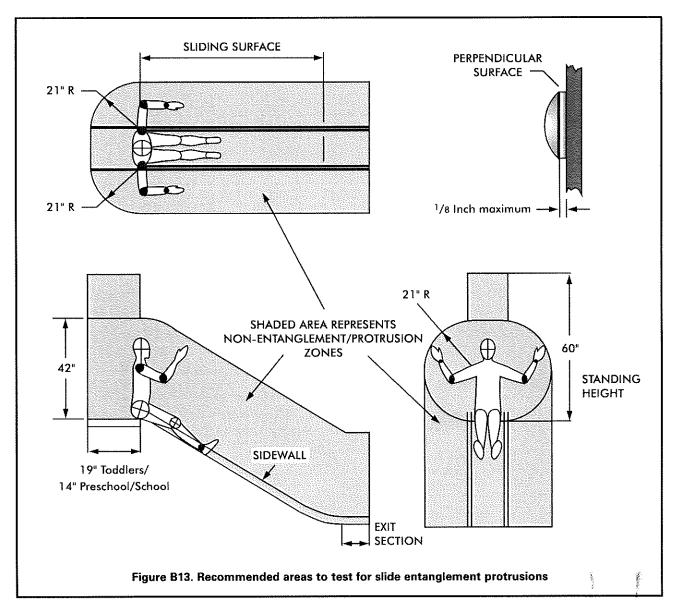
Step 4: Visually determine if the projection extends beyond the face of the slide projection gauge.

**Pass:** A projection that does not extend beyond the face of the gauge passes.

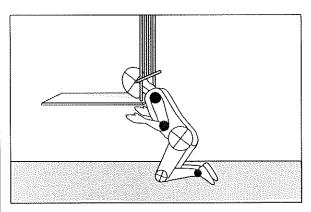
**Fail:** A projection that extends beyond the face of the gauge is considered a hazardous protrusion and should be eliminated.

NOTE: This test procedure is not applicable to the underside of a slide chute. For a slide chute with a circular cross section, the portion of the underside not subject to this projection recommendation is shown in Figure 18. The general recommendations for projections in §B.2.1 are applicable to the underside of the slide.





Ground-bounded: Not subject to entrapment recommendations.



Low entrapment

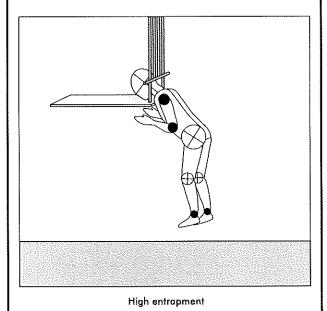


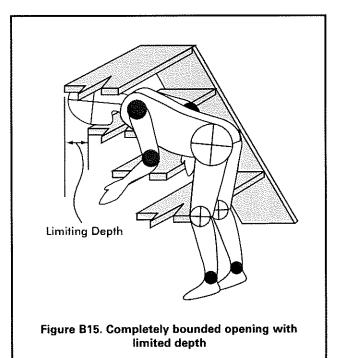
Figure B14. Examples of completely bounded openings

#### **B.2.4 Entrapment**

#### B.2.4.1 General

Any completely-bounded opening (Figure B14) that is not bounded by the ground may be a potential head entrapment hazard. Even those openings which are low enough to permit a child's feet to touch the ground present a risk of strangulation to an entrapped child, because younger children may not have the necessary intellectual ability and motor skills to withdraw their heads, especially if scared or panicked. An opening may present an entrapment hazard if the distance between any interior opposing surfaces is greater than 3.5 inches and less than 9 inches. If one dimension of an opening is within this potentially hazardous range, all dimensions of the opening should be considered together to fully evaluate the possibility of entrapment. The most appropriate method to determine whether an opening is hazardous is to test it using the following fixtures, methods, and performance criteria.

These recommendations apply to all playground equipment, i.e., toddler, preschool-age, and school-age children. Fixed equipment as well as moving equipment (in its stationary position) should be tested for entrapment hazards. There are two special cases for which separate procedures are given: (1) completely-bounded openings where depth of penetration is a critical issue (see Figure B15) and (2) openings formed by flexible climbing components.



#### **B.2.5 Test fixtures**

Two templates are required to determine if completely bounded openings in rigid structures present an entrapment hazard. These templates can easily be fabricated from cardboard, plywood, or sheet metal.

#### B.2.5.1 Small torso template

The dimensions (see Figure B3 and Figure B4) of this template are based on the size of the torso of the smallest user at risk (5th percentile 6-month-old child for Figure B3 and 2-year-old child for Figure B4). If an opening is too small to admit the template, it is also too small to permit feet first entry by a child. Because children's heads are larger than their torsos, an opening that does not admit the small torso template will also prevent head first entry into an opening by a child.

#### B.2.5.2 Large head template

The dimensions (see Figure B5) of this template are based on the largest dimension on the head of the largest child at risk (95th percentile 5-year-old child). If an opening is large enough to permit free passage of the template, it is large enough to permit free passage of the head of the largest child at risk in any orientation. Openings large enough to permit free passage of the large head template will not entrap the chest of the largest child at risk.

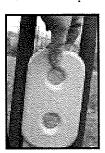
## B.2.5.3 Completely bounded openings with unlimited depth

#### B.2.5.3.1 Test procedure

- Step 1: Select the appropriate small torso template based on the intended users of the playground (Figure B3 for toddler playgrounds, Figure B4 for preschooland school-age playgrounds).
- Step 2: Identify all completely bounded openings.
- Step 3: Attempt to place the small torso template in the opening with the plane of the template parallel to the plane of the opening. While keeping it parallel to the plane of the opening, the template should be rotated to its most adverse orientation (i.e., major axis of template oriented parallel to the major axis of the opening.)

Step 4: Determine if the small torso template can freely pass through the opening.

No: Pass. Stop



Yes: Continue

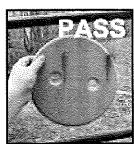


Step 5: Place the large head template in the opening, again with the plane of the template parallel to the plane of the opening, and try to insert it through the opening.

**Pass:** The large head template can be freely inserted through the opening

Fail: The opening admits the small torso template but does not admit the large head template.

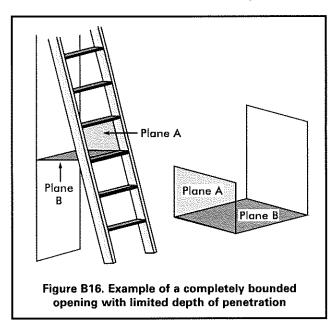




### B.2.5.4 Completely bounded openings with limited depth of penetration

The configuration of some openings may be such that the depth of penetration is a critical issue for determining the entrapment potential. For example, consider a vertical wall or some other barrier behind a step ladder. The entrapment potential depends not only on the dimensions of the opening between adjacent steps but also on the horizontal space between the lower boundary of the opening and the barrier. A child may enter the opening between adjacent steps feet first and may proceed to pass through the space between the rear of the lower step and the barrier and become entrapped when the child's head is unable to pass through either of these two openings. In effect, there are openings in two different planes, and each has the potential for head entrapment and should be tested.

Figure B16 illustrates these two planes for a step ladder as well as for a generic opening. Plane A is the plane of the completely bounded opening in question, and Plane B is the plane of the opening encompassing the horizontal space between the lower boundary of the opening in Plane A and the barrier that should also be tested for entrapment hazards.



### B.2.5.4.1 Test procedure

Step 1: Select the appropriate small torso template based on the intended users of the playground (Figure B3 for toddler playgrounds, Figure B4 for preschool-age and school-age playgrounds).

- Step 2: Identify all completely bounded openings with limited depth of penetration.
- Step 3: Place the small torso template in the opening in Plane A with its plane parallel to Plane A; rotate the template to its most adverse orientation with respect to the opening while keeping it parallel to Plane A.
- Step 4: Determine if the opening in Plane A admits the small torso template in any orientation when rotated about its own axis.
  - No: Pass. The opening is small enough to prevent either head first or feet first entry by the smallest user at risk and is not an entrapment hazard.

Yes: Continue.

- Step 5: Place the small torso template in the opening in Plane B with its plane parallel to Plane B; rotate the template to its most adverse orientation with respect to the opening while keeping it parallel to Plane B.
- Step 6: Determine if the opening in Plane B admits the small torso template.
  - No: Pass. The depth of penetration into the opening in Plane A is insufficient to result in entrapment of the smallest user at risk.

Yes: Continue.

- Step 7: Place the large head template (Figure B5) in the opening in Plane A with its plane parallel to Plane A. Determine if the opening in Plane A admits the large head template.
  - No: Fail. A child, whose torso can enter the opening in Plane A as well as the opening in Plane B, may become entrapped by the head in the opening in Plane A.

Yes: Continue.

- Step 8: With the plane of the large head template parallel to the opening in Plane B, determine if the opening in Plane B admits the large head template.
  - No: Fail. The largest user at risk cannot exit the opening in Plane B.
  - **Yes: Pass.** The openings in Plane A and Plane B do not pose an entrapment risk.

### B.2.5.5 Flexible openings

Climbing components such as flexible nets are also a special case for the entrapment tests because the size and shape of openings on this equipment can be altered when force is applied, either intentionally or simply when a child climbs on or falls through the openings. Children are then potentially at risk of entrapment in these distorted openings.

The procedure for determining conformance to the entrapment recommendations for flexible openings requires two three-dimensional test probes which are illustrated in Figure B6, Figure B7, and Figure B8 are applied to an opening in a flexible component with a force of up to 50 pounds.

### B.2.5.5.1 Test procedure

- Step 1: Select the appropriate small torso template based on the intended users of the playground (Figure B3 for toddler playgrounds, Figure B4 for preschool-age and school-age playgrounds).
- Step 2: Identify all completely bounded openings with flexible sides.
- Step 3: Place the small torso probes (Figures B6 and B7) in the opening, tapered end first, with the plane of its base parallel to the plane of the opening.
- Step 4: Rotate the probe to its most adverse orientation (major axis of probe parallel to major axis of opening) while keeping the base parallel to the plane of the opening.
- Step 5: Determine if the probe can be pushed or pulled completely through the opening by a force no greater than 30 pounds on toddler playgrounds or 50 pounds on preschool-age and school-age playgrounds.

No: Pass. Stop

Yes: Continue.





- Step 6: Place the large head probe (Figure B8) in the opening with the plane of its base parallel to the plane of the opening.
- Step 7: Determine if the large head probe can be pushed or pulled completely through the opening by a force no greater than 30 pounds on toddler playgrounds or 50 pounds on preschool-age and school-age playgrounds.

Yes: Pass. Stop.



No: Fail.



### B.2.5.6 Partially bound openings

A partially bound opening is any opening which has at least one side or portion open, such as a U- or V-shaped opening. These openings can still pose an entrapment hazard by allowing the neck to enter but not allowing the head to slip out. A partially bound opening can be any part of the playground equipment where a child could get his or her neck caught, so it includes not only two- or three-sided openings, but also areas of large openings (large enough for the head template to enter) that have the characteristics that can entrap a child's neck. Several examples outlines of this situation are shown in the figures below. Openings that have an outline similar to these figures are often found when two parts of a playground meet, for example, the top of a slide and the side of a guardrail.

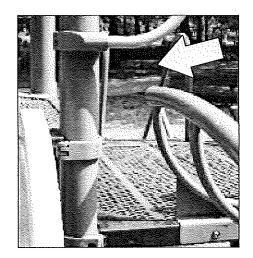
Identifying partially bound openings varies depending on the age range of the playground. Openings that should be tested include any opening where:

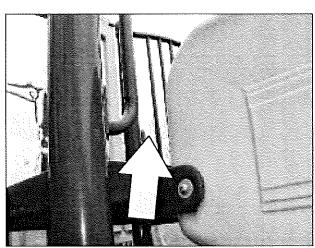
### For toddlers:

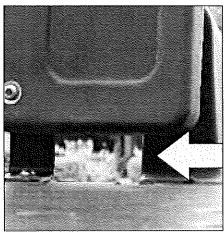
- The perimeter of the opening is not closed
- The lowest leg of the opening is tilted upward (i.e. above horizontal) or 45 degrees below horizontal.

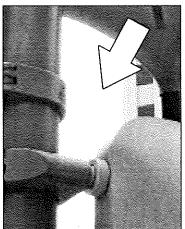
For preschool- and school-age:

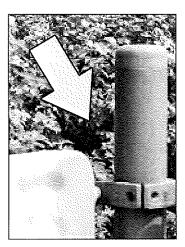
- The perimeter of the opening is not closed
- The lowest leg of the opening is tilted upward (i.e. above horizontal)











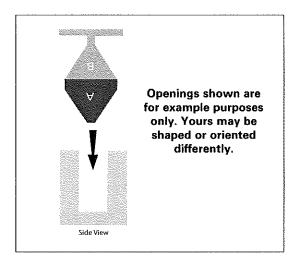
Examples of partially bound openings. Note, these examples are intended to illustrate the principle of partially bound openings and may or may not require testing.

### B.2.5.6.1 Test procedure

Step 1: Select the appropriate Partially Bound Template based on the intended users of the playground (Figure B10 for toddler playgrounds, Figure B9 for preschool and school-age playground).

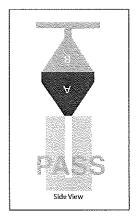
Step 2: Identify partially bound openings.

Step 3: Align the template so that the face of the template is parallel to the plane of the opening and the narrow tip of the A section is pointing toward the opening.

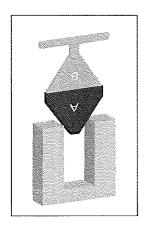


- Step 4: Insert the A portion of the template into the opening following the centerline of the opening.
- Step 5: Once inserted as far as possible, determine if there is simultaneous contact between the sides of the opening and both of the top corners at the narrow tip of section A.

Yes: Pass. Stop

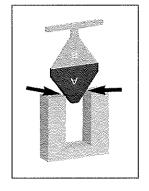


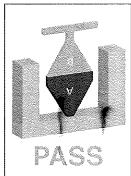
No: continue



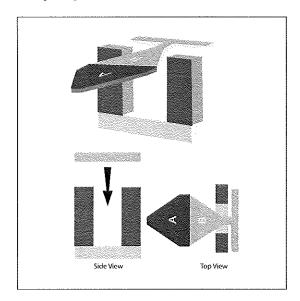
Step 6: While still inserted as far as possible, determine if there is simultaneous contact between both of the angled sides of section A and the sides of the opening.

Yes: Note the points on the sides of opening where contact was made and continue No: Pass. The narrow tip should be resting on the lower boundary of the opening with no contact with the sides of the opening. Stop





- Step 7: Remove the template and turn the template so that the face of the template is perpendicular to the opening.
- Step 8: Following the plane of the opening, insert the B portion of the template into the opening so that the narrow part of the B portion is between the sides of the opening.



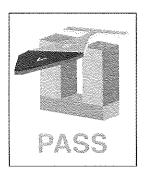
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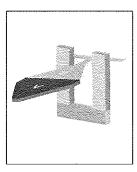
Step 9: Once inserted as far as possible, determine if the B portion is completely past the points where contact was made on the sides of the opening with the A portion.

No: Pass. Stop

**Yes:** Toddlers: Fail. Stop

Preschool and School-age: Continue

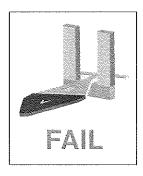


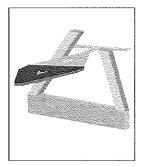


Step 10: Determine if the B portion can reach a point where the opening increases in size.

No: Fail. Stop

Yes: continue





Step 11: Determine if the Large Head Template passes freely through the larger opening.

Yes: Pass

No: Fail





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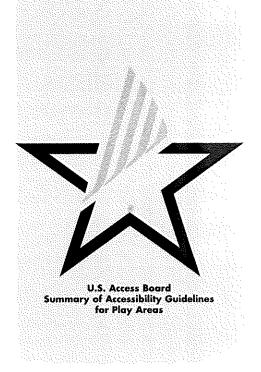
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## **ACCESSIBLE PLAY AREAS**

# A Summary of Accessibility Guidelines for Play Areas







### INTRODUCTION

The Americans with Disabilities Act (ADA) is a comprehensive civil rights law that prohibits discrimination on the basis of disability. The ADA requires that newly constructed and altered State and local government facilities, places of public accommodation, and commercial facilities be readily accessible to, and usable by, individuals with disabilities. Recreational facilities, including play areas, are among the facilities required to comply with the ADA.

The Architectural and Transportation Barriers Compliance Board - often referred to as the "Access Board" - has developed accessibility guidelines for newly constructed and altered play areas. The play area guidelines are a supplement to the Americans with Disabilities Act Accessibility Guidelines (ADAAG). Once these guidelines are adopted as enforceable standards by the Department of Justice, all newly constructed and altered play areas covered by the ADA will be required to comply. These guidelines also apply to play areas covered by the Architectural Barriers Act (ABA).

### **Summary**

This guide is intended to help designers and operators in using the accessibility guidelines for play areas. These guidelines establish minimum accessibility requirements for newly constructed and altered play areas. This guide is not a collection of playground designs. Rather, it provides specifications for elements within a play area to create a general level of usability for children with disabilities. Emphasis is placed on ensuring that children with disabilities are generally able to access the diversity of components provided in a play area. Designers and operators are encouraged to exceed the guidelines where possible to provide increased accessibility and opportunities. Incorporating accessibility into the design of a play area should begin early in the planning process with consideration to layout, circulation paths, and the selection of play components.

The play area guidelines were developed with significant public input and carefully considered the balancing of costs, safety, and accessibility. The Access Board sponsored a Regulatory Negotiation Committee to develop proposed guidelines. The public was given an opportunity to comment on the proposed guidelines and the Access Board made changes to the proposed guidelines based on the public comments. The Regulatory Negotiation Committee represented the following groups and associations:

American Society of Landscape Architects
ASTM Public Playground Committee
ASTM Soft Contained Play Committee
ASTM Playground Surfacing Systems Committee
International Play Equipment Manufacturers Association
National Association of Counties
National Association of Elementary School Principals

National Child Care Association National Council on Independent Living National Easter Seal Society
National League of Cities
National Parent-Teacher Association
National Recreation and Park Association
Spina Bifida Association of America
TASH
United Cerebral Palsy Association

U.S. Access Board

This guide is designed to assist in using the play area accessibility guidelines and is divided into the following sections:

Where Do the Play Area Guidelines Apply?
What is a Play Component?
How Many Play Components Must Be on an Accessible Route?
What Are the Requirements for Accessible Routes?
What Other Accessibility Requirements Apply to Play Components?
Soft Contained Play Structures

Copies of the play area accessibility guidelines and further technical assistance can be obtained from the U.S. Access Board, 1331 F Street, Suite 1000 NW, Washington, DC 20004-1111; 800-872-2253, 800-993-2822 (TTY); www.access-board.gov. Alternate formats of this document are also available upon request.



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October 2005

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U.S. Access Board Summary of Accessibility Guidelines for Play Areas

### **PLAY AREA TERMS**

### **Play Area Terms**

Many terms are used throughout this guide to describe the play area guidelines. Familiarity with these terms is important when applying the guidelines. Other definitions are provided in ADA/ABA.

ABA - Architectural Barriers Act

Access Board – An independent Federal agency that develops accessibility guidelines under the ADA and other laws. The Access Board is also known as the Architectural and Transportation Barriers Compliance Board.

**Accessible** – Describes a site, building, facility, or portion thereof that complies with the play area guidelines.

Accessible Route – A continuous unobstructed path connecting all accessible elements and spaces of a building or facility. Inside the boundary of the play area, accessible routes may include platforms, ramps, elevators, lifts. Outside the boundary of the play area, accessible routes may also include parking access aisles, curb ramps, crosswalks at vehicular ways, walks, ramps, and lifts.

ADA – Americans with Disabilities Act.

Alteration — An alteration is a change to a building or facility that affects or could affect the usability of the building of facility or part thereof. Alterations include, but are not limited to, remodeling, renovation, rehabilitation, reconstruction, historic restoration, resurfacing of circulation paths or vehicular ways, changes or rearrangement of structural parts or elements, and changes or rearrangement in the plan configuration of walls and full-height partitions. Normal maintenance is not an alteration unless it affects the usability of the facility (see section on alterations for more details).

Amusement Attraction – Any facility, or portion of a facility, located within an amusement park or theme park, that provides amusement without the use of an amusement device. Examples include, but are not limited to, fun houses, barrels, and other attractions without seats.

**ASTM** – American Society for Testing and Materials.

**Berm** – A sloped surface at ground level designed to ascend or descend in elevation.

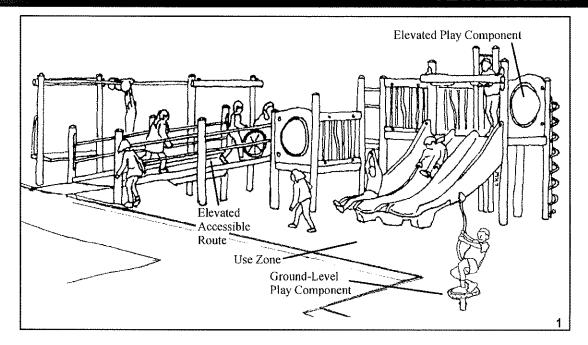
Clear - Unobstructed.

Composite Play Structure – Two or more play structures attached or functionally linked, to create one integral unit that provides more than one play activity (ASTM F 1487-01).

**Cross Slope** – The slope that is perpendicular to the direction of travel (see running slope).

**Elevated Play Component** – A play component that is approached above or below grade and that is part of a composite play structure consisting of two or more play components attached or functionally linked to create an integrated unit providing more than one play activity.





Facility – All or any portion of buildings, structures, site improvements, elements and pedestrian routes or vehicle ways located on a site.

Ground Level Play Component - A play component that is approached and exited at the ground level.

Play Area – A portion of a site containing play components designed and constructed for children.

Play Component – An element intended to generate specific opportunities for play, socialization, or learning. Play components may be manufactured or natural, and may be stand alone or part of a composite play structure.

Ramp – A walking surface that has a running slope of greater that 1:20.

**Running Slope** – The slope that is parallel to the direction of travel (see cross slope).

Site – A parcel of land bounded by a property line or a designated portion of a public right-ofway.

Soft Contained Play Structure - A play structure made up of one or more components where the user enters a fully enclosed play environment that utilizes pliable materials (e.g., plastic, netting, fabric).

Use Zone - The ground level area beneath and immediately adjacent to a play structure or piece of equipment that is designated by ASTM F 1487 Standard Consumer Safety Performance Specification for Playground Equipment for Public Use for unrestricted circulation. This is the play surface upon which it is predicted a user would land when falling from or exiting the equipment.



Summary of Accessibility **Guidelines for Play Areas** 

### **New Construction**

The play area guidelines in this guide apply to all newly designed or constructed play areas for children ages 2 and older.

This includes play areas located in a variety of settings: parks, schools, childcare facilities, shopping centers, and public gathering areas. Owners or operators of newly constructed play areas are responsible for complying with these guidelines.

The play area guidelines do not apply to:

- Family childcare facilities where the proprietor resides
- · Amusement attractions
- Religious entities



This large play area designed for the same age group is part of a public park system. The total of all the play components in this play area - which includes multiple composite structures - must be counted when applying the play area guidelines.

### **Alterations**

The play area guidelines also apply to existing play areas where alterations occur. Further information regarding the application of the play area guidelines to altered play areas can be found on page 39.

### **Equivalent Facilitation**

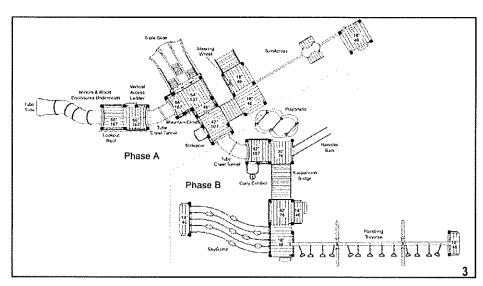
Designs that result in products or technologies as alternatives to those prescribed, provided substantially equivalent or greater accessibilty and usability.

Equivalent facilitation is the concept of utilizing innovative solutions and new technology, design, or materials in order to satisfy the guidelines. These alternative solutions provide equal access and take advantage of new developments, but may differ technically from specific guidelines.



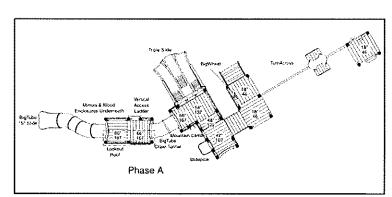
### **Phasing in Play Areas**

When play areas are constructed in phases, they must continue to meet the play area guidelines throughout construction. The initial phase area must meet the guidelines, and then at each successive phase the whole play area must be reassessed to assure compliance.

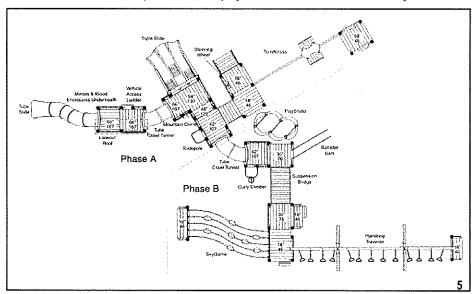


This play area will be installed in two phases. As each phase is completed, the entire play area must be reevaluated for compliance.

Prior to phase one, the first structure is evaluated for compliance, since the guidelines are based on a minimum number of play components required to be on an accessible route.



At the onset of phase two, the play area is reevaluated in its entirety.



"Phased designs" are play areas developed to be installed in different stages, allowing the play area to grow in a planned manner while accommodating budgets, fund raising, or community approval processes.



### Play Areas Separated by Age

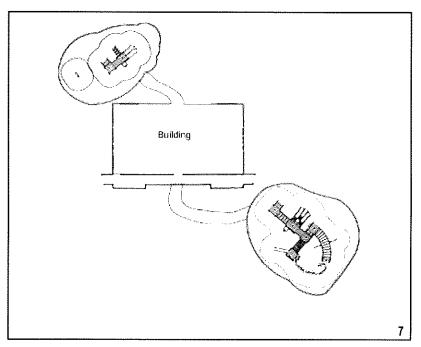
To reduce the risk of injury, safety guidelines recommend separate play areas for different age groups. In applying the guidelines, play areas designed for different age groups should be considered separately.

A play area designed for 2 to 5 year-olds is considered separate from one for 5 to 12 year-olds. Therefore, compliance with the guidelines must be considered for each individual play area.



This dual play area designed for 2 to 5 year-olds and 5 to 12 year-olds shares resilient surfacing. Each section must be evaluated separately.

### **Geographically Separated Play Areas**



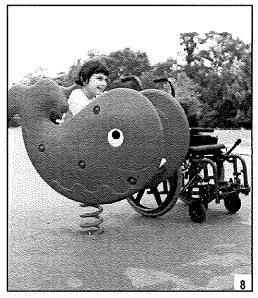
Large geographical spaces may contain several play areas within one park setting. Where play areas are geographically separated on a site, they are considered separate play areas. The accessibility guidelines apply to each play area.



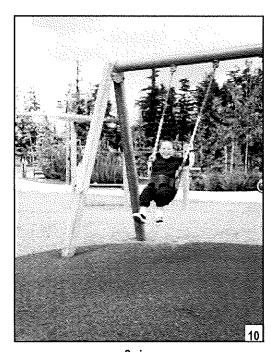
### **Play Components**

A play component is an element designed to generate specific opportunities for play, socialization, and learning. Play components may be manufactured or natural, and may be stand alone or part of a composite play structure. Swings, spring riders, water tables, playhouses, slides, and climbers are among the many different play components.

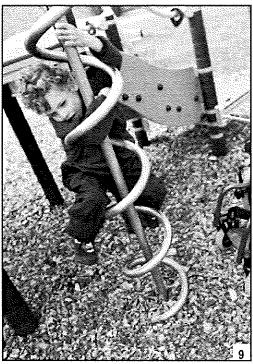
For the purpose of these guidelines, ramps, transfer systems, steps, decks, and roofs are not considered play components. These elements are generally used to link other elements on a composite play structure. Although socialization and pretend play can occur on these elements, they are not primarily intended for play.



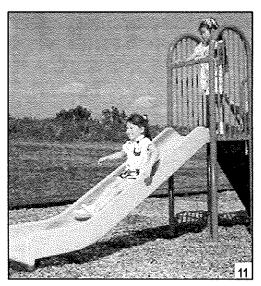
Spring rider



Swing



Climber



Slide



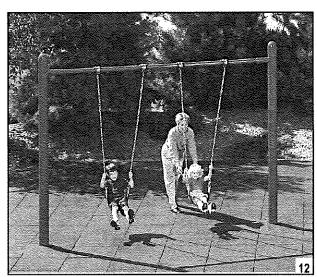
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When applying the play area guidelines, it is important to identify the different play experiences play components can provide.

### **Different "Types"**

At least one of each type of play component provided at ground level in a play area must be on an accessible route.

Different "types" of play components are based on the general experience provided by the play component. Different types include, but are not limited to, experiences such as rocking, swinging, climbing, spinning, and sliding.



A Swinging Type



A Rocking Type



This single play component provides one type of play experience for multiple individuals.

"Rocking" is an example of horizontal movement that can be backwards, forwards, sideways or even circular in nature.

"Sliding" is an example of rapid descent that utilizes the force of gravity.

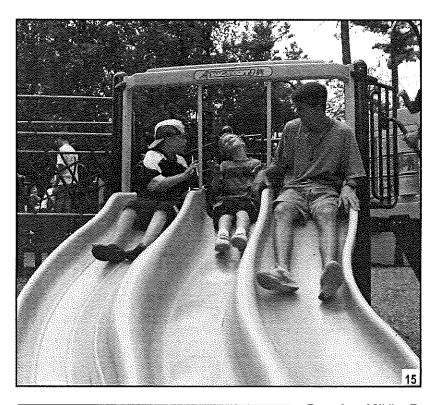


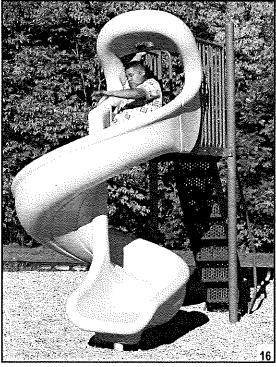
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**Guidelines for Play Areas** 

### WHAT IS A PLAY COMPONENT?

The number of individuals who can play on a play component at once does not determine the quantity of play components provided in a play area. A play component can hold many children but is considered one type of play experience - or one play component - in the play area.





**Examples of Sliding Types** 

While a spiral slide provides a slightly different experience from a straight slide, the primary experience - a sense of rapid descent or sliding - is common to both activities. Therefore, a spiral slide and a straight slide are considered one "type" of play experience.



### WHAT IS A PLAY COMPONENT?

### **Elevated Play Components**

An elevated play component is a play component that is approached above or below grade and is part of a composite play structure. Play components that are attached to a composite play structure and that can be approached from a platform or deck area are considered elevated play components.



This climber is considered an elevated component, since it can be approached or exited from the ground level or above grade from a platform or deck on a composite play structure.

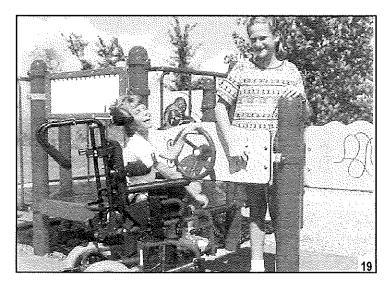




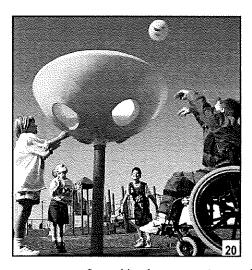
### WHAT IS A PLAY COMPONENT?

### **Ground-Level Play Components**

Ground-level play components are items that can be approached and exited at ground level. For example, a child approaches a spring rider at ground level via the accessible route. The child may ride then exit directly back onto the accessible route. The activity is considered ground level because the child approaches and exits it from the ground-level route.



Ground-level play components may be part of a composite structure.





Ground-level components may also be free-standing in a play area.

When more than one ground-level play component is required on an accessible route, the play components must be integrated. Designers should consider the optimal layout of ground-level play components to foster interaction and socialization among all children. Grouping all ground-level play components accessed by children with disabilities in one location does not constitute integration.

"Ground-level components" are approached and exited at ground level.

Ground-level play components may include items such as swings, spring riders, and panels.

slides Freestanding are considered groundlevel components for the purpose of these guidelines. An accessible route must connect to the ladder or steps, and to the exit of the slide. While this solution does not provide access for all children, it gives many individuals the opportunity to access play components.



U.S. Access Board Summary of Accessibility Guidelines for Play Areas

### HOW MANY PLAY COMPONENTS MUST BE ON AN ACCESSIBLE ROUTE?

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### **Ground-Level Play Components**

There are two requirements addressing how many ground-level play components must be on an accessible route:

- One of Each Type
- Ground-Level Requirements based on the number of Elevated Play Components

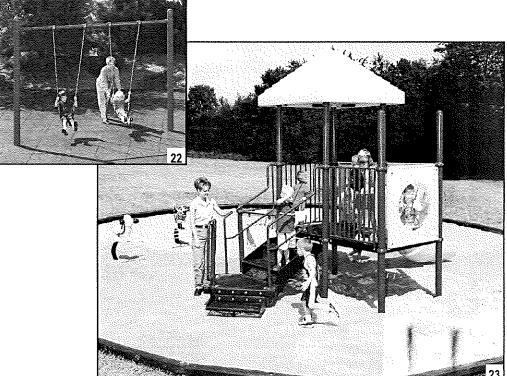
### One of Each Type

At least one of each type of ground-level play component that is present in the play area must be on an accessible route.

As an example, this play area includes a composite play structure, two spring riders and a swing set (see inset). To meet the requirement, an accessible route must connect to at least one spring rider and one swing for one of each type of ground-level play experiences which are present in the play area.

The above step-by-step guide is intended to assist when applying the play area guidelines. A detailed description is provided on page 17.

A "ground-level play component" is a play component that is approached and exited at the ground level.





U.S. Access Board Summary of Accessibility Guidelines for Play Areas

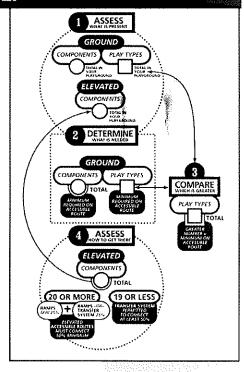
### HOW MANY PLAY COMPONENTS MUST BE ON AN ACCESSIBLE ROUTE?

# Ground Level Requirements Based on Elevated Play Components

The number and variety of ground-level play components required to be on an accessible route is also determined by the number of elevated components provided in the play area.

The intent of this requirement is to provide a variety of experiences for individuals who choose to remain with their mobility aids, or choose not to transfer to elevated play components.

Table 240.2.1.2		
Number of elevated play components provided	Minimum number of ground-level play com- ponents required to be on accessible route	Minimum number of different types of ground-level play components required to be on acessible route
1	Not applicable	Not applicable
2 to 4	1	1
5 to 7	2	2
8 to 10	3	3
11 to 13	4	3
14 to 16	5	3
17 to 19	6	3
20 to 22	7	4
23 to 25	8	4
More than 25	8 plus 1 for each additional 3 over 25, or fraction thereof	5



If ramps provide access to at least 50 percent of the elevated play components - which must include at least three different play types - then additional ground-level components are not required.

In the play area shown on page 14, the composite structure has four elevated play components (bubble panel, slide, steering wheel, and tic-tac-toe panel). According to the table, a minimum of one ground level play component must be provided, and a minimum of one different type. The spring rider or swing can be used to meet the "one of each type" requirement and can also be used to meet the minimum number determined by Table 240.2.1.2.



### **HOW MANY PLAY COMPONENTS MUST BE ON AN ACCESSIBLE ROUTE?**

# TOTAL ASSESS WART'S PRESENT GROUND COMPONENTS PLAY TYPES TOTAL COMPONENTS PLAY TYPES TOTAL COMPONENTS PLAY TYPES COMPONENTS PLAY TYPES COMPONENTS PLAY TYPES TOTAL ASSESS ACCOMPONENTS PLAY TYPES COMPONENTS PLAY TYPES TOTAL COMPONENTS PLAY TYPES PLAY TYPES COMPONENTS PLAY TYPES COMPONENTS PLAY TYPES COMPONENTS PLAY TYPES P

The above step-by-step guide is intended to assist when applying the play area guidelines. A detailed description is provided on page 17.

An "elevated play component" is a play component reached from above or below grade, and is part of a composite play structure.



Page 16

### **Elevated Play Components**

At least 50 percent of the elevated play components must be on an accessible route.



Play areas with 20 or more elevated components must use ramps to connect a minimum of 25 percent of those components. A transfer system or ramps may connect the other elevated play components required on an accessible route.



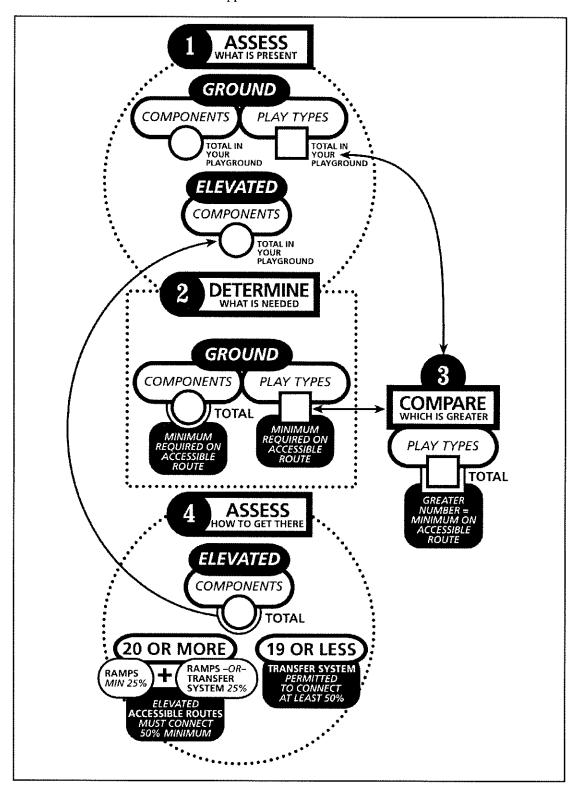
Play areas with less than 20 elevated play components may use a transfer system instead of ramps to connect at least 50 percent of the elevated components.

### STEP-BY-STEP GUIDE ON APPLYING GUIDLINES

### Step-by-Step Guide

The following step-by-step guide has been provided to assist in evaluating a play area for meeting the minimum requirements of these guidelines. The guide has been arranged in four steps and provides spaces to fill in numeric values of play components for evaluating a specific play area design.

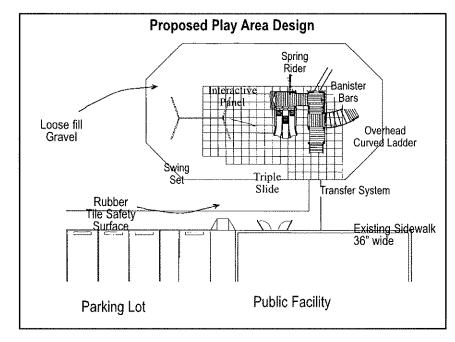
The step-by-step guide is used throughout the remainder of this guide as a key, shown in the upper corner of each new section where it applies.





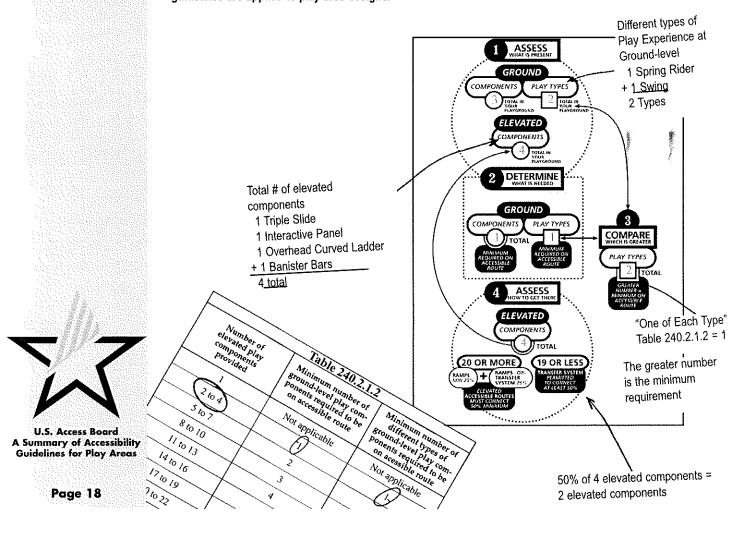
### PLAY AREA EVALUATION EXAMPLE

The example below illustrates a proposed design for a new play area. Each section illustrated in the flow chart provides guidelines for the following design tasks:



- Determining the number of play components
- Assessing the variety of play types
- Determining how many play components must be on an accessible route
- Determining when ramps are required and when transfer systems are permitted

Refer to this example while reviewing the concepts explained in this guide, to review how accessibility guidelines are applied to play area designs.



ADAAG chapter 4 addresses accessible routes that connect the play area to the school, parking lot, or facility that it serves. Operators or owners of play areas are subject to all the other requirements of the ADA, including the obligation to provide individuals with disabilities an equal opportunity to enjoy the play area provided by that facility.

This section describes the various features of accessible routes within a play area, including location, clear width, slope, and accessible surfaces.

### **Accessible Routes**

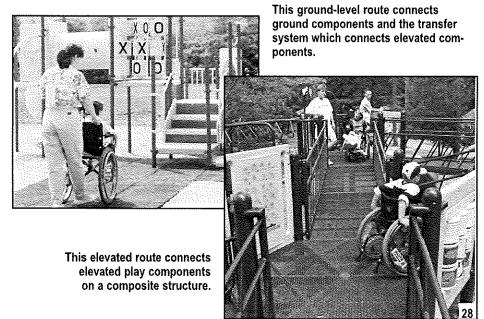
An accessible route is a pathway specifically designed to provide access for individuals with disabilities, including those using wheelchairs or mobility devices.



Accessible routes inside the boundaries of play areas are addressed in the play area guidelines. Technical provisions address the width, slope, and surface of both ground-level and elevated accessible routes.

There are two types of accessible routes:

- Ground-level
- · Elevated



The accessible route must connect all entry and exit points of accessible play components.

Clear floor space required at play components and maneuvering space can overlap the accessible route.

Incorporating additional circulation space around high-use play components creates extra room for movement and accessibility for everyone using the play area.



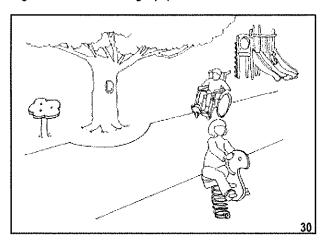
U.S. Access Board
A Summary of Accessibility
Guidelines for Play Areas

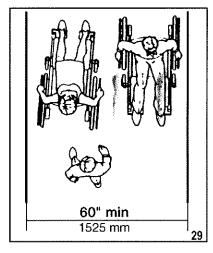
### **Ground-Level Accessible Routes**

A ground-level accessible route connects play components at ground level.

- 60 inches (1525 mm) minimum clear width
- 1:16 maximum slope

The route may narrow down to 36 inches (915 mm) for a distance of 60 inches (1525 mm). This permits flexibility to work around site design features like existing equipment or trees.





The required 60-inch width enables two wheelchairs to pass each other or to change direction.

Smaller play areas - those that are less than 1,000 square feet (304.8 square meters) - may have ground-level accessible routes that are 44 inches (1120 mm) clear width. A wheelchair turning space must be provided where the route exceeds 30 feet (9.14 mm) in length.

At ground level, objects may not protrude into the 60-inch wide space of an accessible route up to or below the height of 80 inches (2030 mm), measured above the accessible route surface. The 80-inch clearance applies only to the 60-inch accessible route, and is not required for the entire play area.

The play area provides a fun accessible roadway theme. The protective shelters for the benches have been set outside the boundary of the route providing the 80 inches of clearance required on the route.





The 80-inch vertical

clearance applies to

ground-level routes only, and not elevated routes. This allows

features like protective

roofs and sun shelters

to be present.

### **Ground-Level Accessible Routes**

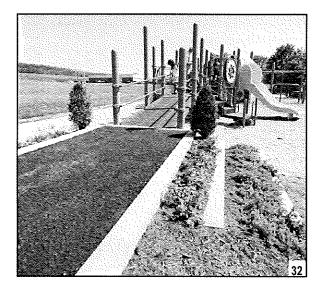
### **Maximum Slope at Ground Level**

The maximum allowable slope for a ground-level accessible route is 1:16.

Berms are sometimes used to provide access to elevated play areas. A berm may be a natural sloped surface that is present in a hilly play area site, or a ground-level route built with slopes.

Designers are encouraged to consider edge protection and handrails on berms where there may be a drop-off. Remember the maximum slope of this "ground-level accessible route" is 1:16.

However, handrails are not required on ground-level accessible routes. This is permitted since the handrails may become a safety hazard in the "use zone."



This play area provides a bermed accessible route.



To accommodate a height change along the perimeter of a play area - like these rubber safety tiles placed on an asphalt surface - an allowable 1:12 slope is utilized for the transition at the boundary of the play area.

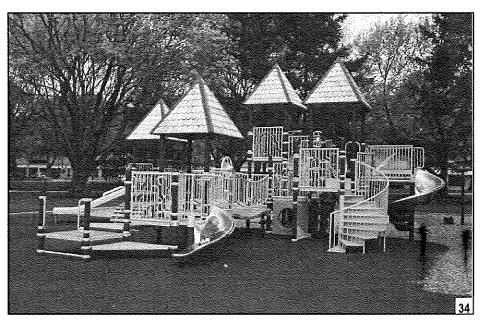


### **Accessible Ground Surfaces**

Ground surfaces along accessible routes, clear floor or ground spaces, and maneuvering spaces, must comply with the American Society for Testing and Materials (ASTM) F 1951-99 Standard Specification for Determination of Accessibility to Surface Systems Under and Around Playground Equipment.

This standard assesses the accessibility of a surface by measuring the work an individual must exert to propel a wheelchair across the surface. The standard includes tests of effort for both straight-ahead and turning movements, using a force wheel on a rehabilitation wheelchair as the measuring device. To meet the standard, the force required must be less than that which is required to propel the wheelchair up a ramp with a slope of 1:14.

When selecting ground surfaces, operators should request information about compliance with the ASTM F 1292-04 standard.



Accessible surfaces can include impact-attenuating tiles made of recycled rubber and engineered wood fiber that meet the ASTM requirements for accessibility and safety. The design can be created so safety is not compromised for individuals using the play area where both standards are applied.

### **Accessible Surfaces Located In The Use Zone**

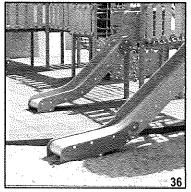
If located within the use zone, accessible ground surfaces must also be impact attenuating and meet ASTM F 1292-04 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment.

The "use zone" is a ground level area beneath and immediately adjacent to a play structure or piece of equipment that is designated for unrestricted circulation around the equipment. It is predicted that a user would fall and land or exit the equipment on the surface of the use zone.

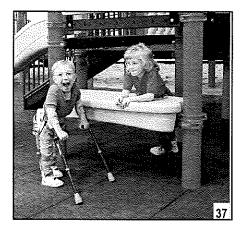
The American Society for Testing and Materials (ASTM) has established safety standards for play areas, including resilient surfaces. For further information or to purchase these standards, contact ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, www.astm.org.





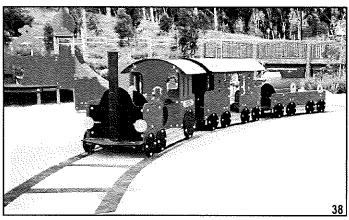


Accessible and non-accessible surfaces can be combined to provide variety and excitement in the play area.



Rubber surfacing tiles facilitate access in this play area.

Ground surfaces must be inspected and maintained regularly and frequently to ensure continued compliance with the ASTM F 1292-04 standard. The frequency of maintenance and inspection of resilient surfacing depends on the amount of use and the type of surfacing installed.



Accessible surfacing can be designed to complement the theme of the play area, while providing full access and visually integrating the surface into the overall design. Individuals of all abilities will enjoy the added benefits of an imaginative design.

Engineered wood fiber surfaces will require frequent maintenance to comply with the ASTM F 1292-04 standard because of surface displacement due to user activity or other factors.

Designers and operators are likely to choose materials that best serve the needs of each play area. The type of material selected will affect the frequency and cost of maintenance.



At the time of this publication, rubber surfacing and some engineered wood fiber products meet the ASTM F 1951-99 standard. The fact that a specific product meets the ASTM 1951-99 standard does not necessarily mean that all other similar products will meet the standard.

Operators interested in selecting surfaces to comply with the play area guidelines, should consult individual product manufacturers to determine compliance with ASTM F 1951-99.



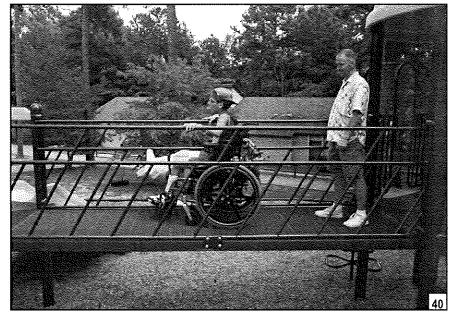
U.S. Access Board A Summary of Accessibility Guidelines for Play Areas

### **Elevated Accessible Routes**

An elevated accessible route is the path used for connecting elevated play components.

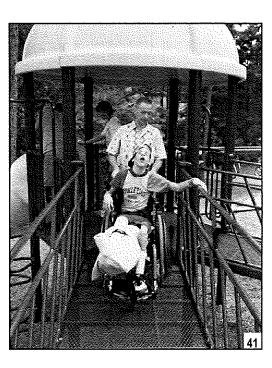
Elevated accessible routes must connect the entry and exit points of at least 50 percent of the elevated play components provided in the play area.

Two common methods for providing access to elevated play components are ramps and transfer systems. Ramps are the preferred method since not all children who use wheelchairs or other mobility devices may be able to use - or may choose not to use - transfer systems.



This photo illustrates an elevated accessible route:

- 36-inch (915 mm) clear width
- 32-inch (815 mm) narrowed width permitted for 24-inch (610 mm) length to accommodate features in the composite structure
- 12-inch (305 mm) rise maximum per ramp run
- Top of handrail gripping surfaces shall be 20 inches (510 mm) minimum to 28 inches (710 mm) maximum above the ramp surface





"Ramps" serve as a continuation of the

accessible route from

the ground allowing individuals who use mobility devices to

access elevated com-

ponents. The guide-

lines require that play areas containing 20 or more elevated play components provide ramp access to at least 25 percent of those elevated components.

The 80-inch vertical clearance height does not apply to elevated accessible routes. This allows for the use of features such as roofs and sun shelters.



### When Ramps Are Required

Ramps are required on composite structures with 20 or more elevated play components and must connect to at least 25% of the elevated play components.

Ramps allow individuals who use wheelchairs and mobility devices to access elevated play components in composite play structures without transferring.



This play area has more than 20 play components and provides ramp access to elevated play components. The ramp system, consisting of ramp runs and landings, must connect at least 25 percent of the elevated play components. The balance of the elevated play components required to be on an accessible route may be connected by the ramp system, or by a transfer system.

**Rise** of a ramp is the amount of vertical distance the inclined or slanted surface ascends or descends. A ramp **run** is a length of a continuous sloped surface that is ascending or descending. For example, to reach a 12-inch high deck or platform, a designer could use a 12-foot ramp with the maximum 1:12 slope, or a 14-foot ramp with a less steeper 1:14 slope.

Platform lifts, also known as "wheelchair lifts," may be considered for providing access to elevated play components when appropriate.

Where applicable, platformliftscomplying with ADA/ABA Accessibility Guidelines chapter 4 and applicable state and local codes are permitted as a part of an accessible route. Because lifts must be independently operable, owners and operators should carefully consider the appropriateness of their use in unsupervised settings.



U.S. Access Board
A Summary of Accessibility
Guidelines for Play Areas

### Ramps

"Ramps" are sloped surfaces that provide

individuals who use

mobility devices with

access to elevated com-

ponents.

For each elevated ramp run:

- 12-inch (305 mm) maximum rise
- 1:12 maximum slope
- 36-inch (915 mm) minimum clear width



### Landings

Landings are the level surfaces at the top and bottom of each ramp run.

- Must be as wide as the ramp they connect to
- A minimum length of 60-inches (1525 mm)
- If ramps change direction, the minimum landing size must be 60 inches (1525 mm) wide to accommodate a turn

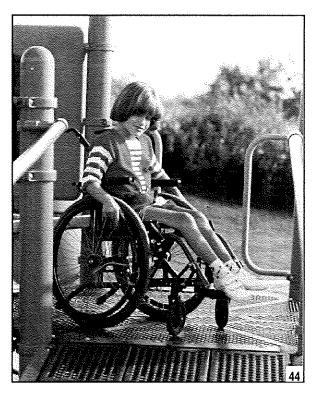
# Maneuvering Space Where Ramps are Provided

At least one maneuvering space must be provided on the same level as the play component. The space must have a slope no steeper than 1:48 in all directions (see page 34 for further details).

ADA/ABA Accessibility Guidelines addresses additional requirements for ramps and landings including edge protection, cross slope, surfaces, and outdoor conditions.



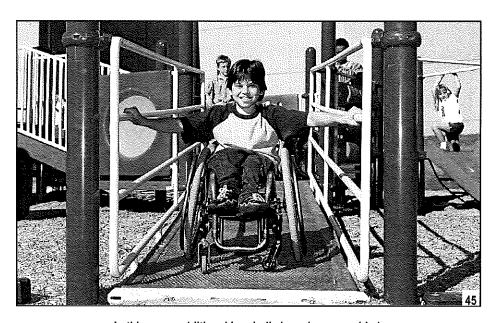




### **Handrails**

Handrails are required on both sides of ramps connecting elevated play components. Handrails must comply with the following:

- Clearance between handrail gripping surfaces and adjacent surfaces and shall not be 1 1/2 inches (38mm) minimum.
- Handrail gripping surfaces shall be continuous along their length and shall not be obstructed along their tops or sides. The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length. Where provided, horizontal projections shall occur 1 1/2 inches (38mm) minimum below the bottom of the handrail gripping surface.



In this case, additional handrails have been provided.

Handrails are required to comply with ADA/ABA 505. However, extensions on handrails in the play area are not required. This is to prevent children running into protruding rails in the play area.



When Transfer Systems Are Used

A transfer system provides access to elevated play components within a composite system by connecting different levels with transfer platforms and steps.

A transfer system provides access to elevated play components without the use of a wheelchair or mobility device. At least 50% of the elevated play components can be connected by a transfer system in play areas with less than 20 elevated components. In play areas with 20 or more elevated play components, transfer systems may be used to connect up to 25% of the elevated play components and the rest of the elevated play components required to be on an accessible route must be connected by a ramp.



A transfer system typically consists of a transfer platform, transfer steps, and transfer supports.

Where a transfer system is provided, a combination of transfer platforms and transfer steps provide a continuous accessible route to elevated play components. A transfer system provides individuals the space necessary to physically transfer up or down in a composite play structure. Where provided, a 24-inch (610 mm) minimum width is necessary for individuals moving around

a structure.



Playful features can be part of the transfer system, providing interactive experiences from both an elevated or ground level approach.

Consider the distance someone must travel to reach play components accessed by transfer systems. On page 31, the illustration shows a transfer system placed directly next to the slide. Access to this type of elevated play component has been carefully designed to minimize the distance someone must transfer to reach it.

U.S. Access Board A Summary of Accessibility

A "transfer system" is

an alternative to a ramp system in play areas where there are less

than 20 total elevated

The transfer system

must connect to the

sible route and provide access to at least 50 percent of the elevated play components.

acces-

play components.

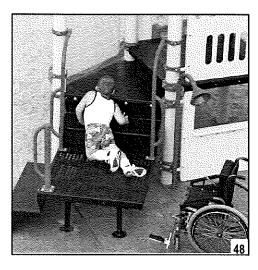
ground-level

Page 28

**Guidelines for Play Areas** 

### **Transfer Platforms**

A transfer platform is a platform or landing that an individual who uses a wheelchair or mobility device can use to lift or *transfer* onto the play structure and leave the wheelchair or mobility device behind at ground-level.



- 11 inches (280 mm) to 18 inches (455 mm) height of top surface
- Minimum 24 inches (610 mm) wide
- Minimum 14 inches (355 mm) deep
- Unobstructed side

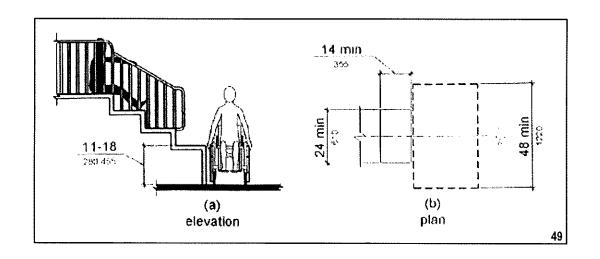
Adding a transfer step that leads to the ground's surface increases access for children exiting components at the ground level.

Transfer steps in a play area are not required to satisfy the general ADAAG stair requirements.

Maneuvering space and clear space is not required on elevated structures or at elevated play components reached by a transfer system.

Clear floor or ground space - used for parking wheelchair or mobility devices (commonly called "wheelchair parking") - is required at the transfer platform.

The 48-inch long side (1200 mm) of the "wheelchair parking" space must be parallel to the 24-inch (610 mm) side of the transfer platform.





U.S. Access Board A Summary of Accessibility Guidelines for Play Areas

### **Transfer Steps**

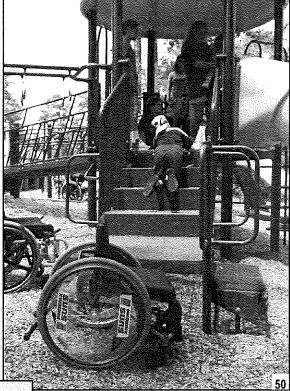
Transfer steps are level

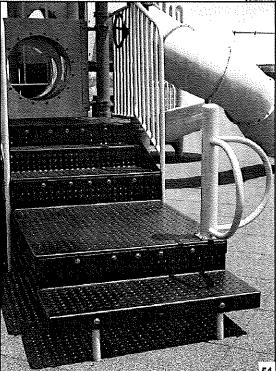
surfaces in a compos-

ite structure that can be used for transferring from different levels to access play

components.

- Minimum 24 inches (610 mm) wide
- Minimum 14 inches (355 mm) deep
- 8 inches (205 mm) maximum height





Play areas intended for smaller children should provide steps at smaller height increments. This will accommodate smaller sized children who must lift or "bump" up each step.



## WHAT ARE THE REQUIREMENTS FOR ACCESSIBLE ROUTES?

### **Transfer Supports**

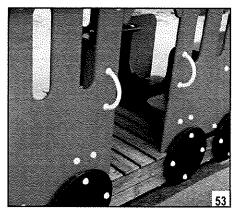
Transfer supports must be provided on transfer platforms and transfer steps at each level where transferring is the intended method of access.



Materials in a variety of different shapes and sizes are used to manufacture transfer supports including metal, plastic, and rope.

A means of support is required when transferring into the entry or seat of a play component.

Transfer supports assist individuals with transferring and general mobility. They include handrails, handgrips, or custom designed handholds.

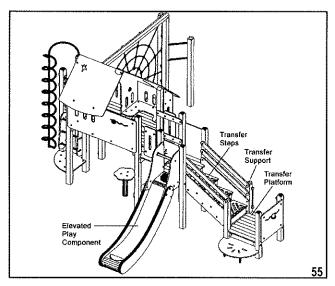




Aesthetically pleasing cut-out shapes and other design enhancements can provide hand supports for transferring.

Consideration must be given to the distance between the transfer system and the elevated play components it is intended to facilitate. Designers should minimize the distance between the point where a child transfers from a wheelchair or mobility device and the elevated play destination.

This transfer system provides access to exciting elevated play experiences like sliding while minimizing the distance individuals must traverse.





Page 31

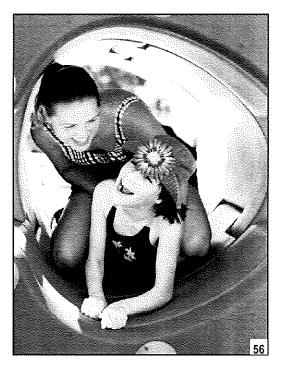
### WHAT ARE THE REQUIREMENTS FOR ACCESSIBLE ROUTES?

# **Connected Elevated Components**

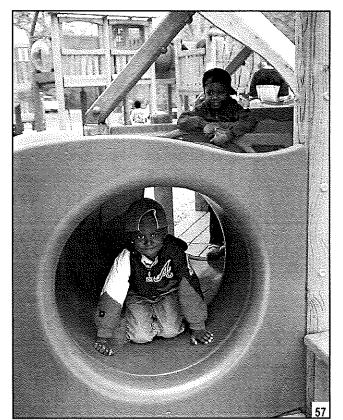
When transfer systems are used, an elevated play component may connect to other elevated play components, providing an innovative, accessible route.

Elevated play components that are connected to other play components count toward fulfilling the requirement for the number of elevated components on an accessible route where transfer systems are used.

A crawl tube is an elevated play component in this composite structure. Going through the tunnel provides access to additional activities on the other side.



Consideration should be given to how a play component is utilized when it is selected to connect to other elevated play events. When a transfer system is provided, children move through a play component like this crawling tube, using their own strength without a mobility device.



Providing variety and excitement through elevated play spaces benefits all children. Tunnels and tubes make "getting there" an activity in itself.



The play area guidelines address accessible routes connecting play components along with certain spaces that are crucial to making a play area usable for children with disabilities. The other requirements for play components are provided to promote general usability, with application to a variety of play components. Additional features will assist in making play components more accessible to more children. Designers are encouraged to consider components with back support, increased space for maneuvering adjacent to the play component, and other features that promote independent use.

# **Clear Floor or Ground Space**

Clear floor space - also known as ground space - provides unobstructed room to accommodate a single stationary wheelchair and its occupant at a play component on an accessible route.

- 30-inch (760 mm) by 48-inch (1220 mm) minimum area
- · May overlap accessible routes and maneuvering spaces
- Slope not steeper than 1:48 in all directions

The clear floor space is permitted to overlap onto the landing area to provide access to this elevated window activity.

Play components come in a variety of shapes and sizes facilitating a broad range of experiences. A specific location for clear floor or ground space has not been designated. Each play component is unique and the spaces must be placed in the best location for the situation.

This interactive play component has a clear ground space that allows front or side reach interaction.



Elevated play components accessed by transfer systems do not require maneuvering or clear floor spaces, since mobility devices are left at ground level.

Clear floor or ground space is also sometimes called "wheelchair parking space."

The minimum clear floor or ground space on a composite structure may be positioned for a forward or parallel approach. It may overlap accessible routes and maneuvering spaces.

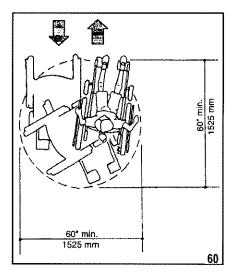


Page 33

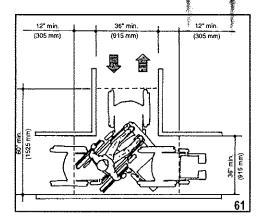
# **Maneuvering Space**

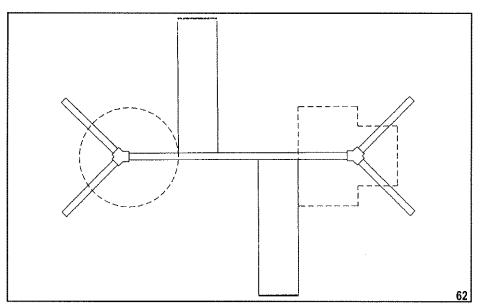
Maneuvering space is defined as the space required for a wheelchair to make a 180-degree turn. At least one maneuvering space must be provided on the same level as elevated play components.

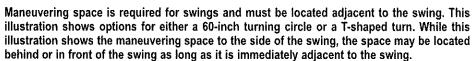
When providing access to ground level and elevated play components by ramps, space allowances to accommodate wheelchairs and mobility devices are required.



- A 60-inch (1525 mm) turning circle permits individuals with mobility devices to turn around
- A 60-inch (1525 mm) T-Shaped turn allows an individual to change directions by making a series of multi-point turns
- Slope not steeper than 1:48 in all directions







Objects are not permitted to protrude into ground level maneuvering spaces at or below 80 inches (2030 mm) above the ground or floor surface.



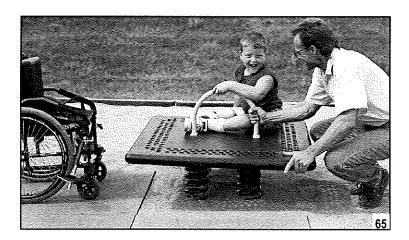
# **Entry Points and Seats**

Entry points and seats are features of play components where individuals would transfer, sit, or gain access. When play components are located on an accessible route, the height required to transfer directly to the entry point or seat of a play component has a minimum of 11 inches (280 mm) and a maximum of 24 inches (610 mm). A mid-level height of 18 inches (455 mm) is recommended.





Examples of entry points and seats include swing seats, spring rocker seats, and crawl-tube openings.





Consider design features like open sides, back supports, and hand supports to help facilitate easy transfer and access.

The height of the entry point of a slide is not specified.



# **Play Tables**

Play tables may be located at a ground or

elevated level in a com-

posite play structure. Consider the route,

clear floor space and

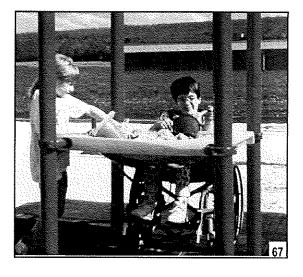
maneuvering spaces

for tables intended to be accessible to individuals who use

wheelchairs.

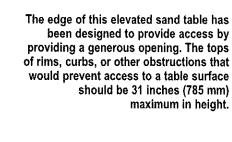
Play tables are surfaces, boards, slabs, or counters that are created for play. This includes tables designed for sand and water play, gathering areas, and other activities. Where play tables are located on an accessible route, the wheelchair knee clearance minimums are:

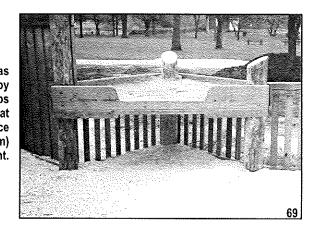
- 24 inches (610 mm) high minimum
- 30 inches (760 mm) wide minimum
- 17 inches (430 mm) deep minimum





Play tables designed primarily for children under 5-years-old, may provide a parallel approach instead of knee clearance if the rim is a maximum of 31 inches (785 mm) high.







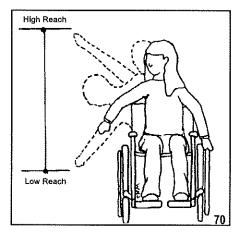
# Reach Ranges (Advisory)

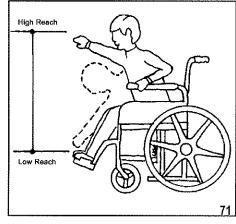
The play area guidelines include advisory information on recommended reach ranges.

Reach ranges are the recommended designated regions of space that a person seated in a wheelchair can reasonably extend their arm or hand to touch, manipulate, move, or interact with an object or play component.

Reach ranges should be considered when providing play components with manipulative or interactive features for children who use wheelchairs. Recommended forward or side reach ranges are:

- 20 to 36 inches for 3 to 4 year-olds
- 18 to 40 inches for 5 to 8 year-olds
- 16 to 44 inches for 9 to 12 year-olds

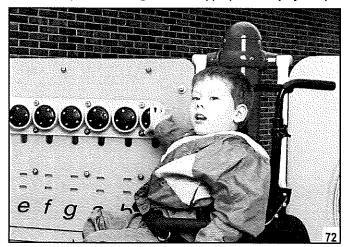




Side Reach

Forward Reach

The reach ranges appropriate for use by children who use wheelchairs to access play components are intended for ground-level components, and elevated components accessed by ramps. Reach ranges are not appropriate for play components reached by transfer systems.



Appropriate reach range heights will vary depending on how the play component is accessed. This interactive panel is mounted at a height appropriate for a child who uses a wheelchair.

The reach ranges in this guide are recommendations that should be considered when designing play components with manipulative features intended for use by individuals who use wheelchairs.

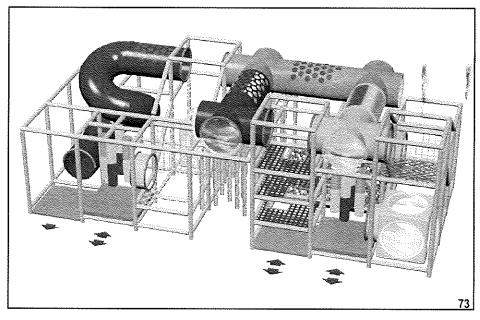


U.S. Access Board A Summary of Accessibility Guidelines for Play Areas

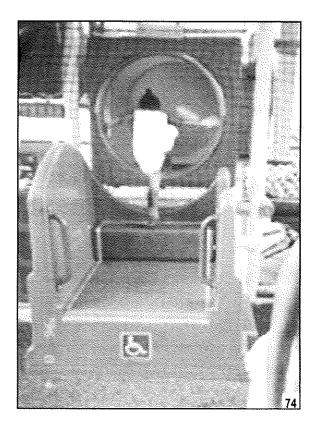
# SOFT CONTAINED PLAY STRUCTURES

Soft contained play structures must provide at least one entry point on an accessible route when three or fewer entry points are provided.

If four or more entry points are provided, at least two entry points must be located on an accessible route.



Soft contained play environments typically have limited entrance and exit locations, with play components integrated into the system design.



Transfer systems or platform lifts can serve as a part of an accessible route connecting entry points on soft-contained play structures.



"Soft contained play equipment" is a play

structure made of one

or more components, on which an individual enters a fully enclosed play environment that uses pliable materials such as plastic, soft padding, and fabric.

### **ALTERATIONS**

The play area guidelines apply to alterations made to existing play areas that affect, or could affect, the usability of the play area. Examples include removing a climbing play component and replacing it with a spring rocker, or changing the ground surfacing.

Alterations provide an opportunity to improve access to existing play areas. Where play components are altered and the ground surface is not, the ground surface does not have to comply with the ASTM F 1951-99 standard for accessible surfaces unless the cost of providing an accessible surface is less than 20 percent of the cost of the alterations to the play components.

If the entire ground surface of an existing play area is replaced, the new ground surface must provide an accessible route to connect the required number and types of play components. The requirements for accessible routes are explained on page 19.



This play area was altered by adding two spring rockers. The seat of at least one spring rocker is between 11 inches (280mm) and 24 inches (610mm) maximum, and clear floor or ground space and maneuvering space is provided. If the ground surface is replaced in the future, an accessible route would have to be provided to the spring rocker.

Normal maintenance activities such as replacing worn ropes or topping off ground surfaces are not considered alterations.

If play components are relocated in an existing play area to create safe use zones, the guidelines do not apply, provided that the ground surface is not changed or extended for more than one use zone.

Replacing the entire ground syrface does not require the addition of more play components.



U.S. Access Board
A Summary of Accessibility
Guidelines for Play Areas

### **ACKNOWLEDGEMENTS**

The Access Board would like to thank the following manufacturers for their generous assistance and for supplying appropriate photographs or illustrations: Bob Leathers, Columbia Cascade, GameTime, KOMPAN, Landscape Structures, Little Tikes, Miracle, Olympic Recreation, Playworld Systems, and Recreation Creations.

The numerical listing below shows the source of each photo or illustration.

Top Cover Photo - KOMPAN Bottom Cover Photo - Miracle

- 1. KOMPAN
- 2. Little Tikes
- 3. KOMPAN
- 4. KOMPAN
- 5. KOMPAN
- 6. Little Tikes
- 7. KOMPAN
- 8. Little Tikes
- 9. KOMPAN
- 10. KOMPAN
- 11. Landscape Structures
- 12. Miracle
- 13. KOMPAN
- 14. Little Tikes
- 15. GameTime
- 16. Playworld Systems
- 17. GameTime
- 18. Little Tikes
- 19. Landscape Structures
- 20. Miracle
- 21. Recreation Creations
- 22. Miracle
- 23. Miracle
- 24. Landscape Structures
- 25. Miracle
- 26. Columbia Cascade
- 27. Playworld Systems
- 28. GameTime
- 29. KOMPAN
- 30. Elizabeth Garufi
- 31. Little Tikes
- 32. Playworld Systems
- 33. KOMPAN
- 34. Columbia Cascade
- 35. KOMPAN
- 36. KOMPAN
- 37. Little Tikes

- 38. KOMPAN
- 39. KOMPAN
- 40. GameTime
- 41. GameTime
- 42. GameTime
- 43. Playworld Systems
- 44. Landscape Structures
- 45. Miracle
- 46. Landscape Structures
- 47. Little Tikes
- 48. Landscape Structures
- 49. KOMPAN
- 50. Game Time
- 51. Recreation Creations
- 52. Miracle
- 53. KOMPAN
- 54. Playworld Systems
- 55. KOMPAN
- 56. KOMPAN
- 57. KOMPAN
- 58. Olympic Recreation
- 59. Playworld Systems
- 60. KOMPAN
- 61. KOMPAN
- 62. Access Board
- 63. Playworld Systems
- 64. Little Tikes
- 65. Landscape Structures
- 66. GameTime
- 67. Playworld Systems
- 68. Landscape Structures
- 69. Bob Leathers
- 70. KOMPAN
- 71. KOMPAN
- 72. Miracle
- 73. GameTime
- 74. Access Board
- 75. Miracle



This manual was developed in part through a contract with KOMPAN, Inc., 7717 New Market Street, Olympia, WA 98501.

# 

www.quiddity.com



January 11, 2023

Board of Directors
Belvedere Municipal Utility District
c/o Lloyd Gosselink Rochelle & Townsend, P.C.
816 Congress Ave., Suite 1900
Austin, TX 78701

Re: Monthly Status Report

Belvedere MUD Regular Board Meeting of January 17, 2023

Dear Directors:

The following is a brief summary that describes our activities since the last meeting:

### 1. Drainage Facilities

- a. <u>Flagler Ditch</u> Quiddity completed the Flagler Ditch analysis. A Technical Memorandum summarizing the findings is included for your review.
- b. <u>Verde Mesa Culverts</u> Quiddity engineering performed an analysis to corroborate the driveway culvert sizes LJA Engineering provided for the homes 8304 and 8308 Verde Mesa. Based on the analysis and field visits, Quiddity provided the following via email to the HOA and the MUD's engineering subcommittee:

### Recommendations:

- Install 2-24" RCP culverts or a 4'x2' box at the 8304 and 8308 Verde Mesa driveways instead of the single 24" pipes recommended in the LJA report.
- Extend a defined ditch from 8304 to 8300 to capture and convey off-site runoff preventing it from spilling over the cul-de-sac taking into consideration the existing hydrant and other utilities.
- Grade the driveway and front yard of 8304 such that runoff is directed to the ditch and not across the cul-de-sac.
- Construct a 1' deep triangular ditch with 4:1 side slopes south of the vegetated filter strip between 8304 and 8308 Verde Mesa to intercept off-site runoff.

### **Observations:**

- Runoff appears to overtop the 2-24" CMPs at 8312 Verde Mesa in storm events higher than the 25-year.
- The temporary driveway culvert at 8304 is crushed and obstructed causing runoff to back up and spill over the shallow ditch and across the cul-de-sac.

The HOA shared this information with the home builders and owners at 8304 and 8308 Verde Mesa and requested the up-sized culverts. The home builder at 8304 Verde Mesa asked for the District's



Board of Directors Belvedere MUD Page 2 January 11, 2023

assistance in paying for at least half of the culvert cost siting the previous guidance provided by Belvedere and delayed notice about the change in culvert size. The email with the home builder's request and the invoice for the total cost of installing the up-sized culverts is included for your review.

BOARD ACTION: Consider partial reimbursement of the culvert installation cost at 8304 Verde Mesa.

### 2. Trail Facilities

a. <u>Maintenance</u> – Revised proposals to address the areas of severe cracking on the masonry sections of the trails identified by the HOA were requested. These proposals will be presented at the meeting for your review and approval.

BOARD ACTION: Consider approval of the proposals for trail repairs.

b. Amenity Center Lot Improvements – Fazzone is still hesitant to replace the plants that were listed in the 1-year inspection, because they were not notified of any issues prior to the inspection, and differences between the plants listed in the 1-yr inspection versus the 3/25/2021 inspection. We coordinated an in person meeting with them, the HOA and the landscapers on November 2<sup>nd</sup>, but no one from Fazzone attended even though they scheduled the meeting and confirmed their attendance. We recommend discussing requesting the surety company's help to enforce the Performance Bond.

Should you have any questions or need additional information, please notify us.

Sincerely,

Odalys C. Johnson, P.E.

### OCJ/ocj

\\jonescarter.corp\cfs\Projects\16654\16654-10900-23 2023 General Consultation (Belvedere MUD\Meeting Files\Status Reports\Status Report for Belvedere 20230117.docx



3100 Alvin Devane Blvd Suite 150 Austin, Texas 78741-7425 Tel: 512.441.9493 Fax: 512.445.2286

Fax: 512.445.2286 www.quiddity.com

January 11, 2023

Belvedere Municipal Utility District 17400 Flagler Drive Austin, Texas 78738

Re: Flagler Ditch Capacity Analysis

Travis County, Texas

### Belvedere MUD:

This technical letter is a summary of the channel improvements study for the Belvedere community in southwest Austin, Texas. Quiddity has performed a drainage evaluation of the channel between Verde Mesa Cove and Rollins Drive. A hydraulic analysis was conducted using the City of Austin (COA) drainage criteria, and it was determined that the existing channel does not satisfy the COA 25-year storm capacity requirement. Thus, this analysis provides a list of improvements to attempt to mitigate flooding.

### **Drainage Analysis**

### Area of Interest

The area of interest for this drainage evaluation is the channel along Flagler Drive between Verde Mesa Cove and a detention pond just east of 17212 Flagler Drive [see *Exhibit 2 – Hydraulic Layout*]. The site consists of large developed residential lots and steep, rolling terrain. There are currently 4 crossings throughout the channel and an existing berm placed along 17208 Flagler Drive. The dimensions and geometry of each crossing were acquired from field survey.

### **Existing Conditions**

The channel is a 4' trapezoidal ditch with 4:1 side slopes that tie into the existing terrain within the current private street, drainage, and public utility easement. The channel contains large rubble and ranges in depth between 0.5'-2'. The existing berm along 17208 Flagler Drive helps contain flow within the channel but spills onto the property of 17212 Flagler Drive once the berm terminates. The undersized crossings impede the channel's ability to detain flow as overtopping occurs at each structure. The span of the ditch along 17212 Flagler Drive is also vastly under capacity with a shallow depth as low as 0.5'.

The total existing drainage to the channel was split into three subbasins: DA-01, DA-02, and DA-03. Runoff flows south from a hilltop at 8309 Bellancia Drive to the existing pond [see Exhibit 1 – Hydrology Layout]. Flow that exceeds the channel's capacity will overtop the banks and drain northeast towards the pond. See Table 1 below for the acreage and impervious percentage for each subbasin.



Belvedere MUD Page 3 January 11, 2023

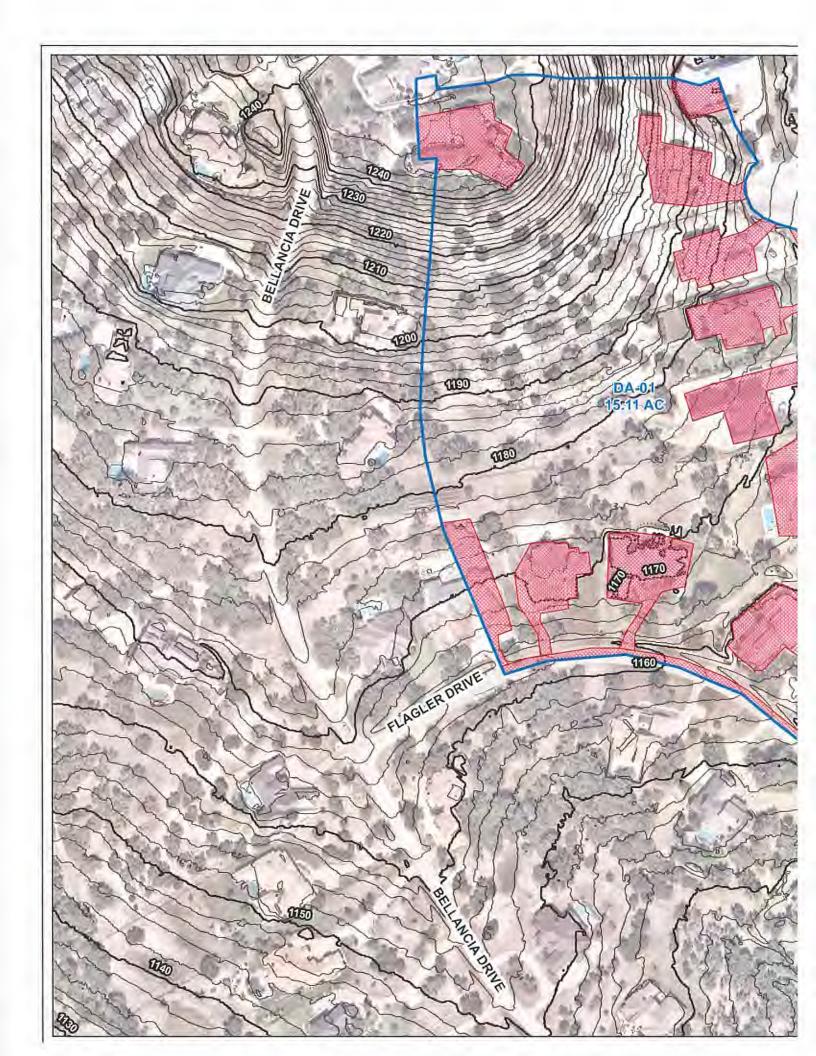
### **Proposed Conditions**

Two proposed HEC-RAS models were evaluated in this study: one with improvements solely to the channel, and one with improvements to both the channel and crossings. Both models were unable to detain runoff within the channel using the current easement limits, as noted in *Exhibit 2*.

The improvements to the channel include replacing the grass ditch and rubble with a fully lined channel with maximum side slopes of 3:1. The proposed channel starts as a 4' wide trapezoidal ditch at the Verde Mesa Cove intersection, transitions to a 6' wide ditch once reaching 17212 Flagler Drive, and transitions to an 8' ditch after crossing the sidewalk bridge until reaching the outfall structure near the pond [see Exhibit 2 – Hydraulic Layout]. The proposed model also includes extending the 2' berm from 17208 Flagler Drive down to 17212 Flagler Drive, terminating at the sidewalk bridge.

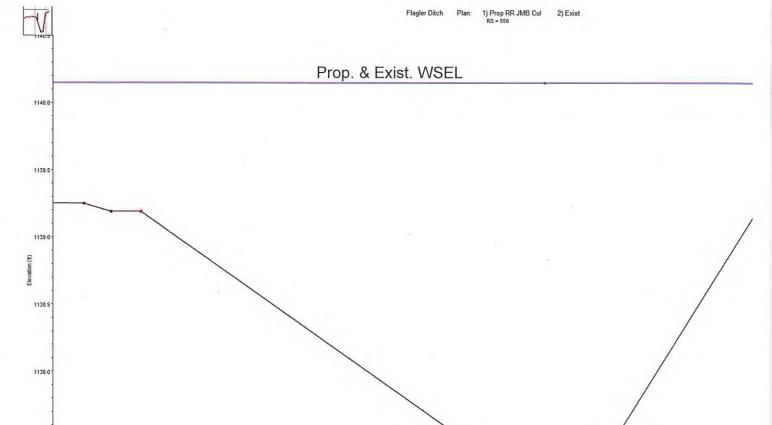
The manning's value of the channel was set to 0.013 in the HEC-RAS models to reflect the lining, and flows for each storm event were input at XS 802, 567, and 308 [see *Exhibit 2 – Hydraulic Layout*]. Improvements to the crossings included an increase in the height of each structure. The proposed geometry and width of each crossing remain unchanged from existing conditions. The crossings could not be widened as this would cause the side slopes near the driveways to be steeper than 3:1.

A third model including the berm extension without lining the channel was evaluated. The manning's value of the channel in this model was set to 0.05 to reflect the large rubble. The capacity of the channel, however, was found to be identical to that of the proposed model with lining (29 CFS).



XS: 556

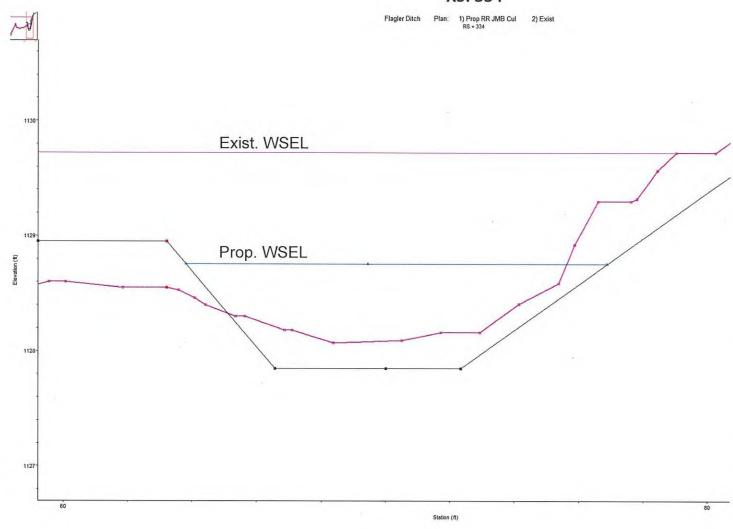
Station (ft)



1137.5

1137.0

XS: 334





### MEGAN MAEDGEN, CMCA

Belvedere General Manager

17400 Flagler Drive | Austin, TX 78738 Direct 512.264.0560 Email megan.maedgen@fsresidential.com www.fsresidential.com

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From: Sean Canahuate < sean.canahuate@gmail.com >

Sent: Thursday, October 6, 2022 1:36 PM

To: Megan Maedgen < Megan. Maedgen@fsresidential.com >

Cc: Capital Hills Development Corporation <capitalhills@gmail.com>; Julie Micon

<juliemicon@gmail.com>

Subject: 8308 Verde Mesa - Culvert Cost Reimbursement

Hi Megan - thanks for the time this afternoon. We'll go ahead and install the double 24" culvert.

As discussed, we'd like to request the MUD to help pay for this and we think half of the cost is fair considering the guidance provided by Belvedere called for one 24" culvert, not two.

Unfortunately, we had already installed a single culvert that was too small and now will have to absorb the cost of removing that as well as pay \$6k for the double 24" setup.

See attached invoice. We would like the MUD to pay for half of the cost (basically pay for one of the two culvert pipes) considering the very late notice on needing to install double 24" culverts. Please let us know.

Thanks, Sean

Sean C. Canahuate (703) 656-6239 sean.canahuate@gmail.com

# DSS ATX 297 Vesper Canyon Lake, TX 78133 +1 5129617851 mrood@dssatx.com



### **ADDRESS**

Capital Hills Development Corporation 8033 Navajo Pass Leander TX 78641

# Estimate 1801

DATE 1/0/05/2022

EXPIRATION DATE 11/04/2022

DATE	ACTIVITY	OTY	PATIE	AMOUNT
	8308 Verde Mesa		erret vertrillet is ser i litter i trick ennek en en internet i men internet i film i	94 (4 )
	Mobilization  Mobilization of mini excavator and skidsteer if needed.	2	225.00	450.00
	Driveway Excavation Excavate for new culvert to be installed. Cut bar ditch per recommendations on outflow side 1' deep triangulated ditch with 4:1 slopes between 8304 and 8308 Verde Mesa. Purchase delivery and install (2) 20' x 24" round corrugated culverts with cut 90 degree ends for treatment. The 90 degree cuts should shorten the top of pipe to 16' +/	1	5,229.56	5,229.56
	Haul Off Haul off contingency of excavation spoils per load	1	323.00	323.00
	Caveats Haul off of corrugated culvert not included in this proposal.	1	0.00	0.00

TOTAL \$6,002.56

Accepted By

Accepted Date

ACH instructions: American Bank Routing: 114903284 Acct #:1021006968