$\label{eq:attachment G:} Attachment G:$ Infrastructure Preliminary Opinion of Cost





Technical Memorandum

WOOD RODGERS
BUILDING RELATIONSHIPS ONE PROJECT AT A TIME

To: City of Sacramento

From:

Adam Fischlin, PE ATF

CC:

Vance Jones, Wood Rodgers

Mike Motroni, PE Tom Martens, EPS

Date: October 16, 2023

Subject: Meadowview 102 – Infrastructure Preliminary Opinion of Cost

Introduction

Wood Rodgers has prepared an infrastructure needs assessment review of the Meadowview 102 site based on four land use alternatives identified by the City of Sacramento. The focus of this analysis is to identify offsite infrastructure improvements and onsite backbone utility needs to serve the site development in each of the land use scenarios. In conjunction with the Infrastructure Needs Assessment, we have also prepared this Infrastructure Preliminary Opinion of Cost memorandum to define preliminary costs associated with the offsite and onsite infrastructure requirements for site development.

Background

In January of 2022, the City of Sacramento purchased 102 acres of surplus federal land in the Meadowview area of south Sacramento. With input from City staff and the community, Wood Rodgers prepared four preliminary land use scenarios for the City's consideration with the goal of exploring site development alternatives and feasibility of site development. Each of these land use alternatives have been evaluated as part of the infrastructure needs assessment effort to identify offsite and onsite backbone infrastructure needs for each land use. This memo will outline the costs associated with infrastructure needs for Meadowview 102 site development.

Land Use Alternatives

In this section, we will introduce each of the conceptual land use plan alternatives that will be evaluated as part of this technical memorandum.

- City Alternative #1: Regional Sports Complex (Appendix A)
 This land use plan highlights a Regional Sports Complex for the entire 102-acre site.
- City Alternative #2A: Sports Complex, Housing, and Open Space Preservation (Appendix B)
 This land use plan provides a 60.5-acre sports complex along with some medium-density and high-density residential uses. Additionally, this land use plan highlights ±15.3 acres of wetland preserve open space.
- City Alternative #2B: Sports Complex and Housing (Appendix C)
 This land use alternative provides a 60-acre sports complex along with medium-density and high-density residential uses without the wetland preserve.

City Alternative #3: Residential Housing (Appendix D)
 Land use alternative #3 highlights a more housing centered focus offering medium, medium-high, and high-density residential uses around a 10-acre neighborhood park and 7.8-acre storm drain facility open space.

Preliminary Opinion of Cost Assumptions

Each of the estimates summarized below assume unit prices based on recent construction bids in the Sacramento region. Due to the volatility of material pricing due to the ongoing supply chain and labor issues and escalation of construction costs, a thirty percent contingency has been included for each of the estimates. Additionally, we have assumed a twenty percent soft costs allowance which is intended to cover the costs associated with engineering, mapping, plan checking, construction staking, and inspection.

For each of the roadway quantities (24th Street, A Street and Onsite Backbone Roadway), we have assumed a per linear foot cost based on the separate roadway estimates that are included as Appendix F. Additional assumptions are footnoted within each of the preliminary opinions of cost included in the appendices of this memorandum.

Offsite Infrastructure Needs Estimate

Included in Appendix A is the preliminary opinion of cost for the Meadowview 102 offsite infrastructure needs (roadway, sewer, water, and storm drain). This effort includes roadway access to the Meadowview 102 Project site and required utility extensions to serve the proposed Project as described in the "Infrastructure Needs Assessment" memo. The preliminary infrastructure opinion of cost for the offsite infrastructure totals \$26,391,000. For the offsite infrastructure costs, it was assumed that neither Delta Shores Phase 3 or the Stone Beetland development would be constructed. Should both projects move forward prior to the development of Meadowview 102, it can be assumed that the offsite infrastructure will be in place, and this cost no longer applies.

Onsite Backbone Infrastructure Needs Estimate - City Alternative #1

The proposed onsite backbone infrastructure needs and mass grading estimate for City Land Use Alternative #1 is included as Appendix B. This effort includes the backbone roadway, water, sewer, and storm drain needs to serve the 102-acre Regional Sports Complex as described in the "Infrastructure Needs Assessment" memo. The preliminary backbone infrastructure opinion of cost for the onsite needs of City Alternative #1 totals \$9,797,000.

Onsite Backbone Infrastructure Needs Estimate - City Alternative #2A

The proposed onsite backbone infrastructure needs and mass grading estimate for City Land Use Alternative #2A is included as Appendix C. This effort includes the backbone roadway, water, sewer, and storm drain needs to serve the 60.5-acre Regional Sports Complex, medium-density residential and high-density residential land uses as described in the "Infrastructure Needs Assessment" memo. The preliminary backbone infrastructure opinion of cost for the onsite needs of City Alternative #2A totals \$7,744,000.

Onsite Backbone Infrastructure Needs Estimate - City Alternative #2B

The proposed onsite backbone infrastructure needs and mass grading estimate for City Land Use Alternative #2B is included as Appendix D. This effort includes the backbone roadway, water, sewer, and storm drain needs to serve the 60-acre Regional Sports Complex, medium-density residential and high-density residential land uses as described in the "Infrastructure Needs Assessment" memo. The preliminary backbone infrastructure opinion of cost for the onsite needs of City Alternative #2B totals \$9,097,000.

Onsite Backbone Infrastructure Needs Estimate - City Alternative #3

The proposed onsite backbone infrastructure needs and mass grading estimate for City Land Use Alternative #3 is included as Appendix E. This effort includes the backbone roadway, water, sewer, and storm drain needs to serve the housing centric land use plan as described in the "Infrastructure Needs Assessment" memo. The preliminary backbone infrastructure opinion of cost for the onsite needs of City Alternative #3 totals \$12,612,000.

Tiny Home Community Preliminary Opinion of Cost

The City of Sacramento has identified a 3.5-acre Tiny Home Community as an interim land use. For this interim use to be implemented in the southwest corner of the Project site, much of the offsite infrastructure would need to be completed as outlined in the "Infrastructure Needs Assessment" memo. The costs associated with mass grading and erosion control for the interim Tiny Home Community land use are minimal when compared to the offsite infrastructure preliminary opinions of costs. Further cost estimate analysis for the Tiny Home Community development can be evaluated during the planning and design phases of the project.

Preliminary Opinion of Cost Exclusions

As discussed in the "Preliminary Storm Drainage Assessment Memorandum" dated September 8, 2023, it is unknown whether the SUMP 89 Drainage Pump Station adjacent to Morrison Creek has the capacity to accept additional flow and volume to serve any of the proposed Meadowview 102 land use alternatives. Design level drainage study to confirm pump station capacity. SUMP 89 Pump Station upgrades have been excluded from this effort.

Summary

The Meadowview 102 project will require both onsite and offsite infrastructure in each of the four land use alternatives for the Project to move forward. Those needs have been identified within the "Meadowview 102 Infrastructure Needs Assessment" memorandum and as noted, additional analysis will be required in the design phase with the completion of water, sewer, and drainage studies. This "Meadowview 102 Infrastructure Preliminary Opinion of Cost" memorandum further defines the anticipated costs required to develop each of the land use scenarios. The City of Sacramento may use this information to aid in the decision making process for how to move forward with the 102-acre Meadowview Project site.

Sources

Meadowview 102 - Infrastructure Needs Assessment Memo

Appendices

Appendix A – Offsite Infrastructure Needs Estimate

Appendix B - Onsite Backbone Infrastructure Needs Estimate - City Alternative #1

Appendix C - Onsite Backbone Infrastructure Needs Estimate - City Alternative #2A

Appendix D - Onsite Backbone Infrastructure Needs Estimate - City Alternative #2B

Appendix E - Onsite Backbone Infrastructure Needs Estimate - City Alternative #3

Appendix F – Roadway Estimates (Cost per Linear Foot)

Appendix A –	Offsite	Infrastructure	Needs	Estimate
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Meadowview 102 - Offsite

City of Sacramento

#	QUANTITY	UNIT	DESCRIPTION	ı	UNIT PRICE		AMOUNT
A. RO	DADWAY						
1.		LF	A Street (see appendix F)	\$	950.00	\$	2,375,000
2.	2,400	LF	24th Street (see appendix F)	\$	1,448.00	\$	3,475,200
3.		LF	Western Entrance Roadway (see appendix F)	\$	834.00	\$	583,800
4.	1,000	LF	Emergency Vehicle Access Road	\$	60.00	\$	60,000
			TOTAL ROADWAY			\$	6,494,000
B. SA	NITARY SEW	ER					
5.	1	LS	Relocation Sewer Pump Station 53	\$	4,000,000.00	\$	4,000,000
6.	10,000	LF	18" Force Main Pipe	\$	350.00	\$	3,500,000
7.	700	LF	24" Trunk Sewer Main Pipe	\$	325.00	\$	227,500
8.	12	EA	48" Sewer Manhole	\$ \$	10,500.00	\$	126,000
9.	4	EA	60" Sewer Manhole	\$	15,000.00	\$	60,000
10.	65	LF	8" Sewer Main Pipe	\$	75.00	\$	4,875
11.	1,555	LF	10" Sewer Main Pipe	\$ \$ \$	137.50	\$	213,813
12.	1,030	LF	12" Sewer Main Pipe	\$	200.00	\$	206,000
13.	1,700	LF	15" Sewer Main Pipe	\$	245.00	\$	416,500
			TOTAL SANITARY SEWER			\$	8,754,688
C CT	CODM DD AINIA	C E					
14.	TORM DRAINA		201 Charm Drain Dina	ф	145.00	Φ	275 500
14. 15.	,	LF EA	30" Storm Drain Pipe 48" Manhole	\$ \$	9,500.00	\$	275,500
15.	9	EA	TOTAL STORM DRAINAGE	Ф	9,500.00	\$ \$	85,500
			TOTAL STORM DRAINAGE			Þ	361,000
D. W	ATER SYSTEM	Л					
16.	2,400	LF	24" Water Transmission Main Pipe	\$	320.00	\$	768,000
17.	2,500	LF	12" Domestic Water Main Pipe	\$	170.00	\$	425,000
18.	5,650	LF	8" Domestic Water Main Pipe	\$	140.00	\$	791,000
			TOTAL WATER SYSTEM			\$	1,984,000
	Д	. ROAD\	NAY			\$	6,494,000
	В	B. SANITA	ARY SEWER			\$	8,754,688
	C	C. STOR	/I DRAINAGE			\$	361,000
). WATE	R SYSTEM			\$	1,984,000
			SUBTOTAL PRELIMINARY INFRASTRUCTURE CO	OST ESTIMAT	E	\$	17,593,688
			CONTINGENCY		30%	\$	5,278,106
			SOFT COSTS		20%	\$	3,518,738
TOT	AL PRELIMINA	RY INF	ASTRUCTURE COST ESTIMATE			\$	26,391,000

- 1. Based on preliminary nature of the studies, 30% contingency is applied.
- 2. Estimate inlcudes a 20% soft cost allowance. Assumed to be engineering (8%), mapping (1%), plan check (2%), inspection (3%), geotech (3%), and staking (3%).
- 3. Pavement and concrete strucutral sections are assumed and not based on site specific geotechnical analysis.
- 4. Water main pipe costs include all required appurtenances (blow offs, hydrants, air release valves, etc.)
- 5. All costs shown are full improvement costs, not fair share contributions.

Appendix B – Onsite Backbone Infrastructure Needs Estimate – City Alternative #1

Meadowview 102 - Onsite Backbone Infrastructure - City Alternative #1 City of Sacramento

#	QUANTITY	UNIT	DESCRIPTION	U	INIT PRICE		AMOUNT	
۸ ۵۱	RADING							
A. Gr	_	CY	Site Grading (Cut to Fill)	\$	3.50	\$	875,000	
2.	•	AC	Erosion Control	Ψ \$	3,000.00	φ \$	306,000	
3.		CY		Ψ \$	4.00	\$	195,200	
	10,000	0.	TOTALGRADING	Ψ	1.00	\$	1,376,200	
D D	DADWAY							
	DADWAY	1.0	Deuradahaut	ው	F00 000 00	φ	F00 000	
4. 5.		LS LF		\$ \$	500,000.00	\$	500,000	
5.	3,800	LF	Onsite Backbone Roadway (see appendix F) TOTAL ROADWAY	Ф	834.00	\$ \$	3,169,200	
			TOTAL ROADWAY			Þ	3,669,200	
C. SA	ANITARY SEW	ER						
6.		LF		\$	75.00	\$	161,250	
7.	5	EA		\$	10,500.00	\$	52,500	
			TOTAL SANITARY SEWER			\$	213,750	
D. S1	ORM DRAINA	GE						
8.	_	LF	30" Backbone Storm Drain Pipe	\$	145.00	\$	137,750	
9.		EA		\$	9,500.00	\$	28,500	
10.		AC		\$	130,000.00	\$	494,000	
11.	2	ΕĀ		\$	40,000.00	\$	80,000	
			TOTAL STORM DRAINAGE			\$	740,250	
E W	ATER SYSTEM							
12.		LF	8" Backbone Domestic Water Main Pipe	\$	140.00	\$	532,000	
	0,000		TOTAL WATER SYSTEM	Ψ	1 10.00	\$	532,000	
	Α.	CDAD	NO.			ው	4 270 222	
		GRADI ROAD\				\$	1,376,200	
		_	NAY ARY SEWER			\$	3,669,200 213,750	
	_	_	M DRAINAGE			\$ \$	740,250	
			R SYSTEM			э \$	532,000	
		. WAILI	SUBTOTAL PRELIMINARY INFRASTRUCTURE COST ESTIMA	ΤE		\$	6,531,400	
			CONTINGENCY		30%		1,959,420	
			SOFT COSTS		20%	\$	1,306,280	
TOT	AL PRELIMINA	RY INF	RASTRUCTURE/GRADING COST ESTIMATE			\$	9,797,000	

- 1. Based on preliminary nature of the studies, 30% contingency is applied.
- 2. Estimate inlcudes a 20% soft cost allowance. Assumed to be engineering (8%), mapping (1%), plan check (2%), inspection
- 3. Pavement and concrete strucutral sections are assumed and not based on site specific geotechnical analysis.
- 4. Detention basin excavation cost is based upon assumed available volume within designated footprint of detention basin and not based upon project required storage needs (which may be more or less than tabulated).
- 5. Detention basin improvements include vehicle access road, landscaping, fencing and other basin related features.
- 6. Site grading assumes an earthwork volume of cut to fill for the project site. Exact earthwork quantites will vary depending on land use and further grading design efforts.
- 7. Water main pipe costs include all required appurtenances (blow offs, hydrants, air release valves, etc.)

Appendix C – Onsite Backbone Infrastructure Needs Estimate – City Alternative #2A

${\it Meadowview~102-Onsite~Backbone~Infrastructure-City~Alternative~\#2A}$

City of Sacramento

#	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE			AMOUNT	
A. GI	RADING							
1.	_	CY	Site Grading (Cut to Fill)	\$	3.50	\$	875,000	
2.	•	AC	Erosion Control	\$	3,000.00	\$	306,000	
3.		CY		\$	4.00	\$	210,800	
			TOTAL GRADING			\$	1,391,800	
B. R	DADWAY							
4.	. 1	LS	Roundabout	\$	500,000.00	\$	500,000	
5.	2,250	LF	Onsite Backbone Roadway (see appendix F)	\$	834.00	\$	1,876,500	
			TOTAL ROADWAY			\$	2,376,500	
C. SA	ANITARY SEW	ER						
6.	1,650	LF	8" Backbone Sewer Main Pipe	\$	75.00	\$	123,750	
7.	. 6	EA	48" Manhole	\$	10,500.00	\$	63,000	
			TOTAL SANITARY SEWER			\$	186,750	
D. S1	TORM DRAINA	GE						
8.	1,750	LF	24" Backbone Storm Drain Pipe	\$	105.00	\$	183,750	
9.	3	EA	48" Manhole	\$	9,500.00	\$	28,500	
10.	4	AC		\$	130,000.00	\$	533,000	
11.	2	EA	Basin Headwalls	\$	40,000.00	\$	80,000	
			TOTAL STORM DRAINAGE			\$	825,250	
E. W	ATER SYSTEM	Л						
12.	2,250	LF	12" Backbone Domestic Water Main Pipe	\$	170.00	\$	382,500	
			TOTAL WATER SYSTEM			\$	382,500	
	Д	. GRADI	NG			\$	1,391,800	
	Е	B. ROAD	NAY				2,376,500	
	C	C. SANIT	ARY SEWER			\$ \$	186,750	
). STOR	M DRAINAGE			\$ \$	825,250	
	E	. WATE	R SYSTEM				382,500	
			SUBTOTAL PRELIMINARY INFRASTRUCTURE COST ESTIMA	ΓE		\$	5,162,800	
			CONTINGENCY		30%	\$	1,548,840	
			SOFT COSTS		20%	\$	1,032,560	
TOT	AL PRELIMINA	RY INF	RASTRUCTURE/GRADING COST ESTIMATE			\$	7,744,000	

- 1. Based on preliminary nature of the studies, 30% contingency is applied.
- 2. Estimate inlcudes a 20% soft cost allowance. Assumed to be engineering (8%), mapping (1%), plan check (2%), inspection
- 3. Pavement and concrete strucutral sections are assumed and not based on site specific geotechnical analysis.
- 4. Detention basin excavation cost is based upon assumed available volume within designated footprint of detention basin and not based upon project required storage needs (which may be more or less than tabulated).
- 5. Detention basin improvements include vehicle access road, landscaping, fencing and other basin related features.
- 6. Site grading assumes an earthwork volume of cut to fill for the project site. Exact earthwork quantites will vary depending on land use and further grading design efforts.
- 7. Water main pipe costs include all required appurtenances (blow offs, hydrants, air release valves, etc.)

Appendix D – Onsite Backbone Infrastructure Needs Estimate – City Alternative #2B

Meadowview 102 - Onsite Backbone Infrastructure - City Alternative #2B City of Sacramento

#	QUANTITY	UNIT	DESCRIPTION	ι	JNIT PRICE		AMOUNT
ΔGI	RADING						
1.		CY	Site Grading (Cut to Fill)	\$	3.50	\$	875,000
2.	•	AC	Erosion Control	\$	3,000.00	\$	306,000
3.		CY	Detention Basin Excavation	\$	4.00	\$	248,800
	,		TOTAL GRADING	·		\$	1,429,800
B. RO	DADWAY						
4.	3,300	LF	Onsite Backbone Roadway (see appendix F)	\$	834.00	\$	2,752,200
			TOTAL ROADWAY			\$	2,752,200
C. SA	ANITARY SEW	ER					
5.	1,500	LF	8" Backbone Sewer Main Pipe	\$	75.00	\$	112,500
6.	. 5	EA	48" Manhole	\$	10,500.00	\$	52,500
			TOTAL SANITARY SEWER			\$	165,000
D. S1	TORM DRAINA	GE					
7.	2,150	LF	24" Backbone Storm Drain Pipe	\$	105.00	\$	225,750
8.	. 6	EA	48" Manhole	\$	9,500.00	\$	57,000
9.	. 6	AC	Detention Basin Improvements	\$	130,000.00	\$	754,000
10.	. 3	EA	Basin Headwalls	\$	40,000.00	\$	120,000
			TOTAL STORM DRAINAGE			\$	1,156,750
E. W	ATER SYSTEM	Л					
11.	3,300	LF	12" Backbone Domestic Water Main Pipe	\$	170.00	\$	561,000
			TOTAL WATER SYSTEM			\$	561,000
	Α	. GRADI	NG			\$	1,429,800
		B. ROAD					2,752,200
		_	ARY SEWER			\$	165,000
		. STOR	M DRAINAGE			\$	1,156,750
			RSYSTEM			\$ \$ \$	561,000
			SUBTOTAL PRELIMINARY INFRASTRUCTURE COST ESTIMAT	Έ		\$	6,064,750
			CONTINGENCY		30%	\$	1,819,425
			SOFT COSTS		20%		1,212,950
TOT	AL PRELIMINA	RY INFE	RASTRUCTURE/GRADING COST ESTIMATE			\$	9 097 000

TOTAL PRELIMINARY INFRASTRUCTURE/GRADING COST ESTIMATE

9,097,000

- 1. Based on preliminary nature of the studies, 30% contingency is applied.
- 2. Estimate inlcudes a 20% soft cost allowance. Assumed to be engineering (8%), mapping (1%), plan check (2%), inspection
- 3. Pavement and concrete strucutral sections are assumed and not based on site specific geotechnical analysis.
- 4. Detention basin excavation cost is based upon assumed available volume within designated footprint of detention basin and not based upon project required storage needs (which may be more or less than tabulated).
- 5. Detention basin improvements include vehicle access road, landscaping, fencing and other basin related features.
- Site grading assumes an earthwork volume of cut to fill for the project site. Exact earthwork quantites will vary depending on land use and further grading design efforts.
- 7. Water main pipe costs include all required appurtenances (blow offs, hydrants, air release valves, etc.)

Appendix E – Onsite Backbone Infrastructure Needs Estimate – City Alternative #3

Meadowview 102 - Onsite Backbone Infrastructure - City Alternative #3

City of Sacramento

#	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	AMOUNT	
A. GF	RADING					
1.	250,000	CY	Site Grading (Cut to Fill)	3.50	\$ 875,000	
2.	102	AC	Erosion Control		\$ 306,000	
3.	94,000	CY	Detention Basin Excavation	4.00	\$ 376,000	
			TOTAL GRADING		\$ 1,557,000	
B. RO	DADWAY					
4.	4,100	LF	Onsite Backbone Roadway (see appendix F)	834.00	\$ 3,419,400	
			TOTAL ROADWAY		\$ 3,419,400	
C. SA	ANITARY SEW	ER				
5.	3,500	LF	15" Backbone Sewer Main Pipe	245.00	\$ 857,500	
6.	12	EA	48" Manhole	10,500.00	\$ 126,000	
			TOTAL SANITARY SEWER		\$ 983,500	
D. S1	ORM DRAINA	GE				
7.	2,800	LF	36" Backbone Storm Drain Pipe	200.00	\$ 560,000	
8.	6	EA	48" Manhole		\$ 57,000	
9.	8	AC	Detention Basin Improvements		\$ 1,014,000	
10.	3	EA	Basin Headwalls	40,000.00	\$ 120,000	
			TOTAL STORM DRAINAGE		\$ 1,751,000	
	ATER SYSTEM					
11.	4,100	LF	12" Backbone Domestic Water Main Pipe	170.00	\$ 697,000	
			TOTAL WATER SYSTEM		\$ 697,000	
		. GRADI			\$ 1,557,000	
	E	B. ROAD	NAY		\$ 3,419,400	
			ARY SEWER		\$ 983,500	
			M DRAINAGE		\$ 1,751,000	
	E	. WATE	R SYSTEM		\$ 697,000	
			SUBTOTAL PRELIMINARY INFRASTRUCTURE COST ESTIMAT	E	\$ 8,407,900	
			CONTINGENCY	30%	2,522,370	
			SOFT COSTS	20%	\$ 1,681,580	
TOT	AL PRELIMIN <i>A</i>	RY INFF	RASTRUCTURE/GRADING COST ESTIMATE		\$ 12,612,000	

- 1. Based on preliminary nature of the studies, 30% contingency is applied.
- 2. Estimate inlcudes a 20% soft cost allowance. Assumed to be engineering (8%), mapping (1%), plan check (2%), inspection (3%),
- 3. Pavement and concrete strucutral sections are assumed and not based on site specific geotechnical analysis.
- 4. Detention basin excavation cost is based upon assumed available volume within designated footprint of detention basin and not based upon project required storage needs (which may be more or less than tabulated).
- 5. Detention basin improvements include vehicle access road, landscaping, fencing and other basin related features.
- 6. Site grading assumes an earthwork volume of cut to fill for the project site. Exact earthwork quantites will vary depending on land use and further grading design efforts.
- 7. Water main pipe costs include all required appurtenances (blow offs, hydrants, air release valves, etc.)

Appendix F – Roadwa	y Estimates (Cost	per Linear Foot)
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COST PER LINEAR FOOT

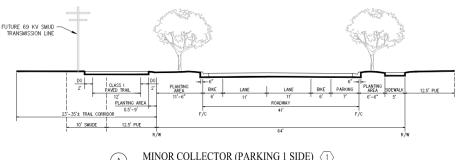
Meadowview 102 - A Street, 24th Street, Western Entrance Roadway and Onsite Backbone Roadway

City of Sacramento

#	QUANTITY	UNIT	DESCRIPTION		UNIT PRICE		AMOUNT
A. A	STREET (64-F	OOT R.C	D.W.)				
1.	42	SF	Subgrade Preparation	\$	0.25	\$	10.50
2.	5	CY	Excavation (3')	\$		\$	18.80
3.		SF	3.5" Asphaltic Concrete Paving	\$		\$	115.20
4.		SF	8" Aggregate Base	\$		\$	129.60
5.		SF	Sidewalk	\$		\$	37.50
6.		SF	Landscape Corridor - Frontage	\$		\$	170.00
7.		LF	Type 2 Curb & Gutter (Vertical Curb)	\$	30.00	\$	60.00
8.		LF	12' Class I Trail	\$	60.00	\$	60.00
9.		LF	Signage & Striping	\$	5.00	\$	20.00
10.		SF	Erosion Control	\$	0.15	\$	8.85
11.		LF	Local Drainage for Minor Collector (Leads & DI's)	\$		\$	40.00
12.		LF	Street Lights (170' estiamted spacing)	\$		\$	80.00
13.		LF	Joint Trench	\$		\$	200.00
			TOTAL COST PER LINEAR FOOT	<u></u>		\$	950.00
D 24	TH STREET (00 5001					
B. 24 14.	TH STREET (9	99-F001 SF	Subgrade Preparation	\$	0.25	\$	14.75
15.		CY	Excavation (3')	\$		\$	26.68
16.		SF	5.5" Asphaltic Concrete Paving	\$	4.80	\$	254.40
17.		SF	10" Aggregate Base	\$	4.00	\$	212.00
18.		SF	Sidewalk	\$		\$	90.00
19.		SF	Landscape Corridor - Frontage	\$		\$	160.00
20.		LF	Type 2 Curb & Gutter (Vertical Curb)	\$	30.00	\$	60.00
21.		LF	Type 5 Median Curb	\$	35.00	\$	70.00
22.		SF	Median Landscaping & Irrigation	\$	8.00	\$	88.00
23.		CY	Median Top Soil Import (18")	\$		\$	6.00
24.		LF	12' Class I Trail	\$		\$	60.00
25.		LF	Signage & Striping	\$	5.00	\$	30.00
26.		SF	Erosion Control	\$	0.15	\$	13.05
27.		LF	Local Drainage for Major Arterial (Leads & DI's)	\$	55.00	\$	55.00
28.		LF	Street Lights (170' estiamted spacing)	\$		\$	88.00
29.		LF	Traffic Signal Interconnect	\$		\$	20.00
30.		SF	Joint Trench	\$		\$	200.00
			TOTAL COST PER LINEAR FOOT			\$	1,448.00
C W	EQTEDN ENT	DANCE	& ONSITE BACKBONE ROADWAY (59-FOOT R.O.W.)				
31.		SF	Subgrade Preparation	\$	0.25	\$	9.25
32.		CY	Excavation (3')	\$			16.44
33.		SF	3.5" Asphaltic Concrete Paving	\$			99.20
34.		SF	8" Aggregate Base	\$			111.60
3 4 .		SF	Sidewalk	\$			75.00
36.		SF	Landscape Corridor - Frontage	\$			120.00
37.		LF	Type 2 Curb & Gutter (Vertical Curb)	\$	30.00		60.00
38.		LF	Signage & Striping	\$	5.00		15.00
39.		SF	Erosion Control	\$			7.35
40.		LF	Local Drainage for Local Commerical (Leads & DI's)	\$			40.00
41.		LF	Street Lights (170' estiamted spacing)	\$			80.00
42.		LF	Joint Trench	\$		\$	200.00
			TOTAL COST PER LINEAR FOOT	•		\$	834.00

QUANTITY UNIT PRICE UNIT **DESCRIPTION AMOUNT**

- 1. AC/AB Street Sections are assumed and may vary based upon recommendations from a complete geotechnical report.
- 2. The onsite backbone roadway was based on Section D Local Commercial Street from Stone Beetland Small Lot Tentative



MINOR COLLECTOR (PARKING 1 SIDE) (1) (A)

