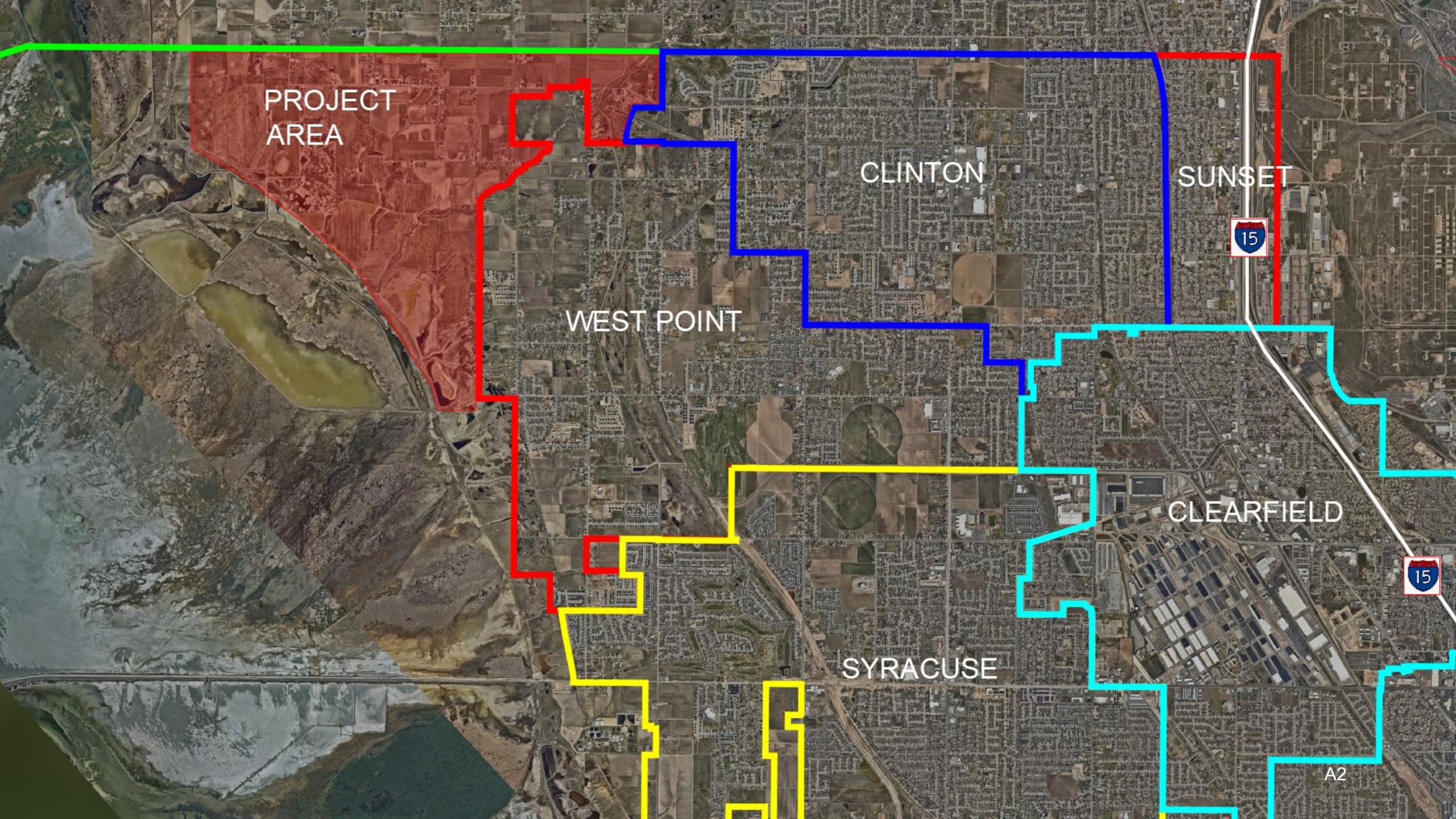


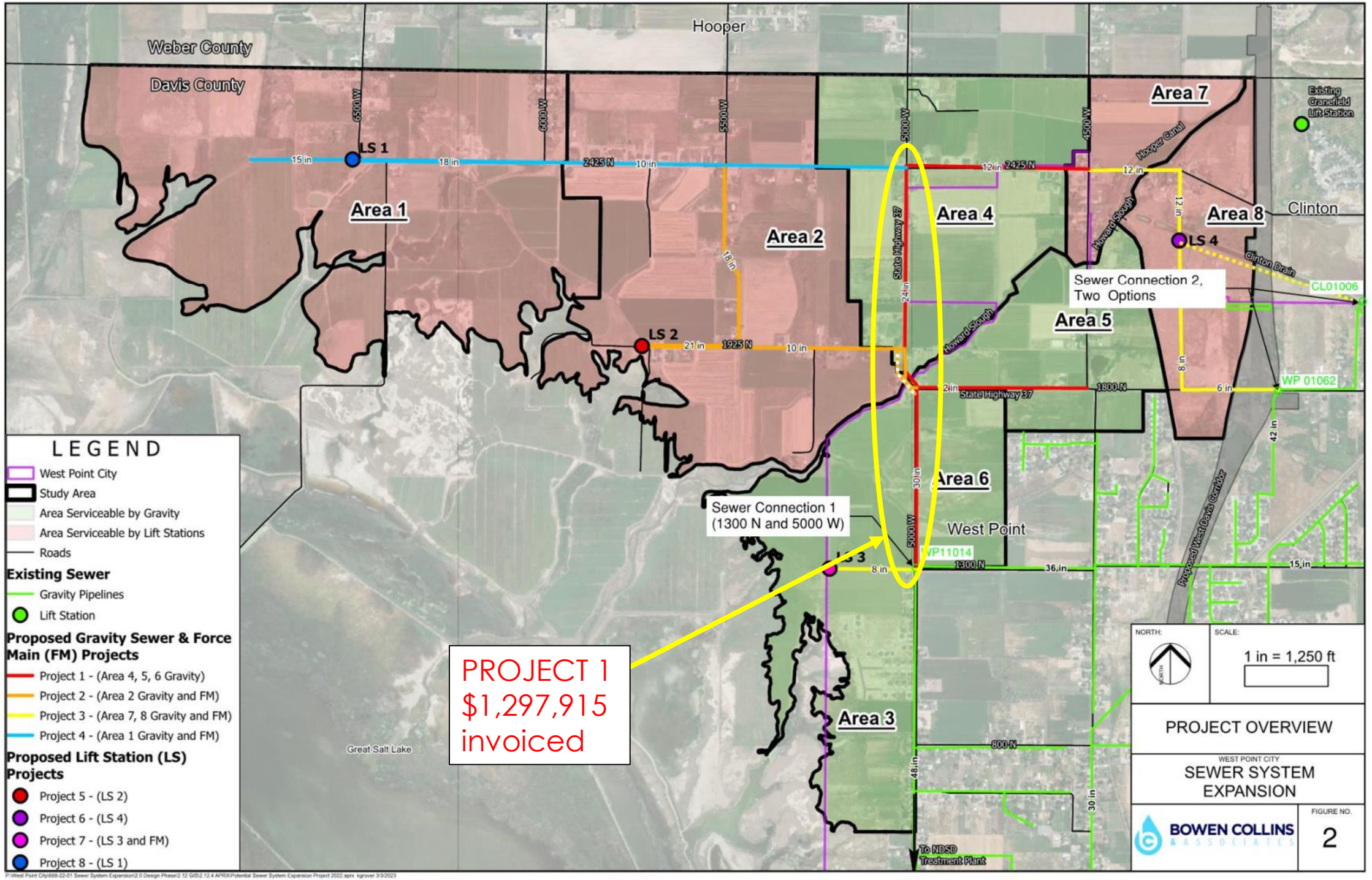
Sewer Expansion

DAVIS COUNTY/WEST POINT CITY


PROJECT AREA
CLINTON
SUNSET
15
WEST POINT
CLEARFIELD
15
SYRACUSE
A2

Agenda

- Construction Update
- Lift Station Bid Results
- Budget Options


Weber County
Davis County
Hooper
Clinton
Great Salt Lake
Area 1
Area 2
Area 3
Area 4
Area 5
Area 6
Area 7
Area 8
LS 1
LS 2
LS 3
LS 4
Existing Cranefield Lift Station
Sewer Connection 2, Two Options
Sewer Connection 1 (1300 N and 5000 W)
West Point
WP11014
WP 01062
CL01006
State Highway 37
Howard Slough
Hooper Canal
Clinton Drain
Proposed West Davis Corridor
To NDSD Treatment Plant
6500 W
6000 W
5500 W
5000 W
4500 W
2425 N
1925 N
1800 N
1300 N
800 N
15 in
18 in
10 in
21 in
12 in
24 in
30 in
36 in
42 in
48 in
8 in
6 in
2in
LEGEND
West Point City
Study Area
Area Serviceable by Gravity
Area Serviceable by Lift Stations
Roads
Existing Sewer
Gravity Pipelines
Lift Station
Proposed Gravity Sewer & Force Main (FM) Projects
Project 1 - (Area 4, 5, 6 Gravity)
Project 2 - (Area 2 Gravity and FM)
Project 3 - (Area 7, 8 Gravity and FM)
Project 4 - (Area 1 Gravity and FM)
Proposed Lift Station (LS) Projects
Project 5 - (LS 2)
Project 6 - (LS 4)
Project 7 - (LS 3 and FM)
Project 8 - (LS 1)
PROJECT 1
$1,297,915
invoiced
NORTH:
SCALE:
1 in = 1,250 ft
PROJECT OVERVIEW
WEST POINT CITY
SEWER SYSTEM EXPANSION
BOWEN COLLINS & ASSOCIATES
FIGURE NO.
2

Lift Station Bid Results

Engineer's Estimate	LS 1	LS 2	Combined
	$5,394,651	$5,824,504	$11,119,155

Contractor	LS 1	LS 2	Combined
Whitaker	$7,631,276	$7,273,376	$14,510,152
COP	$10,596,676	$11,084,676	$21,356,352
VanCon	$10,955,539	$11,105,711	$22,061,250
WW Clyde	$11,911,676	$11,955,676	$23,167,352

Bid Tabulation

Sewer Lift Stations 1 and 2
West Point City
Bid Opening: May 2, 2024

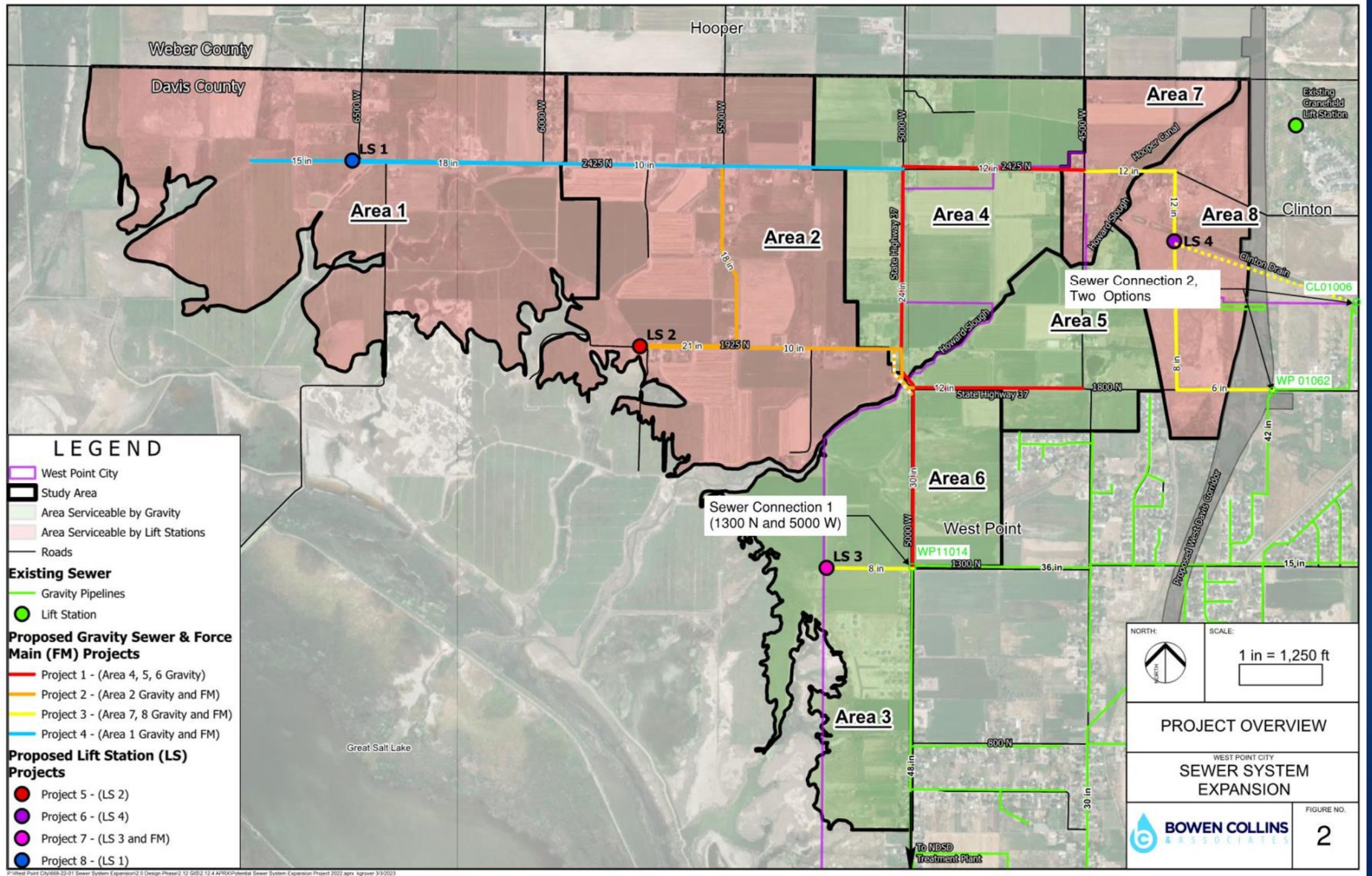
Bid Schedule				Engineer's Estimate		Average of All Bidders		Whitaker Construction Company, Inc		COP Construction, Inc		VanCon, Inc		WW Clyde	
No.	Bid Item	Quantity	Unit	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
Bid Schedule A - Sewer Lift Station 1															
A1	Integrator Services by SKM	1	LS	$ 98,676	$ 98,676.00	$ 98,676.00	$ 98,676.00	$ 98,676.00	$ 98,676.00	$ 98,676.00	$ 98,676.00	$ 98,676.00	$ 98,676.00	$ 98,676.00	$ 98,676.00
A2	Flygt Pump	2	EA	$ 68,000	$ 136,000.00	$ 50,700.00	$ 101,400.00	$ 46,300.00	$ 92,600.00	$ 49,000.00	$ 98,000.00	$ 41,000.00	$ 82,000.00	$ 66,500.00	$ 133,000.00
A3	All Remaining Lift Station 1 Work	1	LS	$ 5,159,975	$ 5,159,975.00	$ 10,073,715.75	$ 10,073,715.75	$ 7,440,000.00	$ 7,440,000.00	$ 10,400,000.00	$ 10,400,000.00	$ 10,774,863.00	$ 10,774,863.00	$ 11,680,000.00	$ 11,680,000.00
Bid Schedule A Subtotal					**$ 5,394,651.00**		**$ 10,273,791.75**		**$ 7,631,276.00**		**$ 10,596,676.00**		**$ 10,955,539.00**		**$ 11,911,676.00**
Bid Schedule B - Sewer Lift Station 2															
B1	Integrator Services by SKM	1	LS	$ 98,676.00	$ 98,676.00	$ 98,676.00	$ 98,676.00	$ 98,676.00	$ 98,676.00	$ 98,676.00	$ 98,676.00	$ 98,676.00	$ 98,676.00	$ 98,676.00	$ 98,676.00
B2	Flygt Pump	2	EA	$ 68,000.00	$ 136,000.00	$ 40,462.50	$ 80,925.00	$ 33,850.00	$ 67,700.00	$ 44,000.00	$ 88,000.00	$ 31,000.00	$ 62,000.00	$ 53,000.00	$ 106,000.00
B3	All Remaining Lift Station 1 Work	1	LS	$ 5,589,828.00	$ 5,589,828.00	$ 10,175,258.75	$ 10,175,258.75	$ 7,107,000.00	$ 7,107,000.00	$ 10,898,000.00	$ 10,898,000.00	$ 10,945,035.00	$ 10,945,035.00	$ 11,751,000.00	$ 11,751,000.00
Bid Schedule B Subtotal					**$ 5,824,504.00**		**$ 10,354,859.75**		**$ 7,273,376.00**		**$ 11,084,676.00**		**$ 11,105,711.00**		**$ 11,955,676.00**
Bid Schedule C - Lift Station 1 Pump Alternates															
C1	Wilo Pump	2	EA	$ 57,000.00	$ 114,000.00	$ 48,701.25	$ 97,402.50	$ 45,900.00	$ 91,800.00	$ 43,905.00	$ 87,810.00	$ 47,000.00	$ 94,000.00	$ 58,000.00	$ 116,000.00
C2	Cornell Pump	2	EA	$ 72,000.00	$ 144,000.00	$ 113,420.67	$ 226,841.33	$ 108,500.00	$ 217,000.00	$ 95,762.00	$ 191,524.00		$ -	$ 136,000.00	$ 272,000.00
C3	FlowServe Pump	2	LS	$ 48,000.00	$ 96,000.00	$ 33,800.00	$ 67,600.00	$ 33,800.00	$ 67,600.00		$ -		$ -		$ -
Bid Schedule D - Lift Station 2 Pump Alternates															
D1	Wilo Pump	2	EA	$ 57,000.00	$ 114,000.00	$ 48,743.50	$ 97,487.00	$ 41,900.00	$ 83,800.00	$ 48,274.00	$ 96,548.00	$ 47,000.00	$ 94,000.00	$ 57,800.00	$ 115,600.00
D2	Cornell Pump	2	EA	$ 72,000.00	$ 144,000.00	$ 106,109.00	$ 212,218.00	$ 98,700.00	$ 197,400.00	$ 92,627.00	$ 185,254.00		$ -	$ 127,000.00	$ 254,000.00
D3	FlowServe Pump	2	EA	$ 48,000.00	$ 96,000.00	$ 32,000.00	$ 64,000.00	$ 32,000.00	$ 64,000.00		$ -		$ -		$ -
Bid Schedule E - Price Reduction															
E1	Price Reduction if Contractor is Awarded Both Lift Stations 1 and 2	1	LS	$ (100,000.00)	$ (100,000.00)	$ (354,875.00)	$ (354,875.00)	$ (394,500.00)	$ (394,500.00)	$ (325,000.00)	$ (325,000.00)	$ -	$ -	$ (700,000.00)	$ (700,000.00)

Bid Summary

Total Bid Schedule A - Sewer Lift Station 1					**$ 5,394,651.00**		**$ 10,273,791.75**		**$ 7,631,276.00**		**$ 10,596,676.00**		**$ 10,955,539.00**		**$ 11,911,676.00**
Total Bid Schedule B - Sewer Lift Station 2					**$ 5,824,504.00**		**$ 10,354,859.75**		**$ 7,273,376.00**		**$ 11,084,676.00**		**$ 11,105,711.00**		**$ 11,955,676.00**
Total Bid if Bid Schedules A and B are awarded to the same Contractor (Bid Schedules A + B + E)					**$ 11,119,155.00**		**$ 20,273,776.50**		**$ 14,510,152.00**		**$ 21,356,352.00**		**$ 22,061,250.00**		**$ 23,167,352.00**

Note 1: Low bid
Note 2: Arithmatic Corrections

Prepared by:
Bowen, Collins and Associates
May 2, 2024


Weber County
Davis County
Hooper
Clinton
West Point
Great Salt Lake
Area 1
Area 2
Area 3
Area 4
Area 5
Area 6
Area 7
Area 8
LS 1
LS 2
LS 3
LS 4
Existing Cranefield Lift Station
Hooper Canal
Howard Slough
Clinton Drain
State Highway 37
Proposed West Davis Corridor
Sewer Connection 2, Two Options
Sewer Connection 1 (1300 N and 5000 W)
CL01006
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To NDSD Treatment Plant
6500 W
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LEGEND
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Study Area
Area Serviceable by Gravity
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Lift Station
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Project 4 - (Area 1 Gravity and FM)
Proposed Lift Station (LS) Projects
Project 5 - (LS 2)
Project 6 - (LS 4)
Project 7 - (LS 3 and FM)
Project 8 - (LS 1)
NORTH:
SCALE:
1 in = 1,250 ft
PROJECT OVERVIEW
WEST POINT CITY
SEWER SYSTEM EXPANSION
BOWEN COLLINS & ASSOCIATES
FIGURE NO.
2

West Point City

Sewer Expansion Project

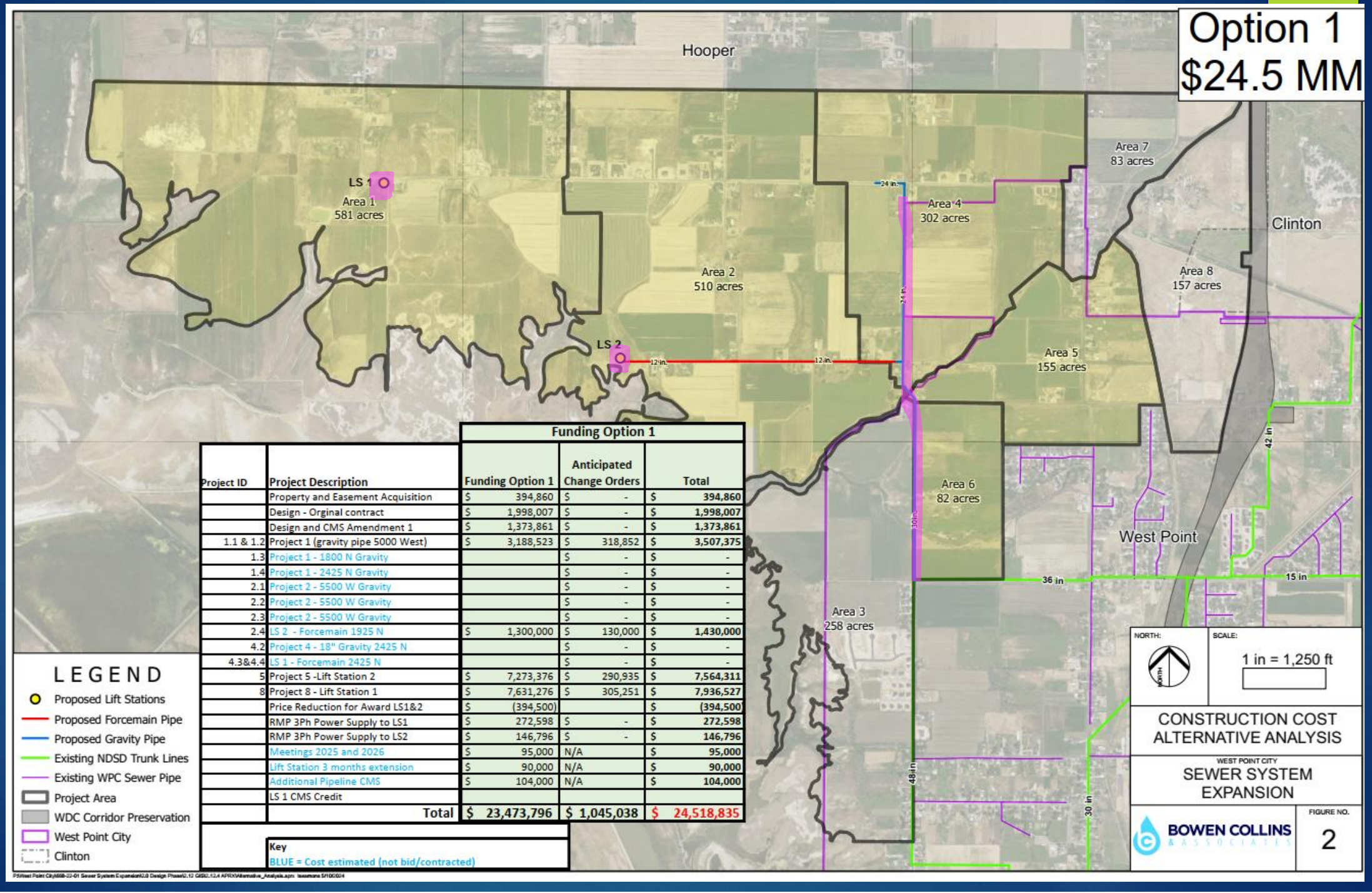
Project Costs

last update: 5/10/2024

			Funding Option 1			Funding Option 2		
Project ID	Project Description	Bid / Cost Estimate	Funding Option 1	Anticipated Change Orders	Total	Funding Option 2	Anticipated Change Orders	Total
	Property and Easement Acquisition	$ 394,860	$ 394,860	$ -	$ 394,860	$ 96,860		$ 96,860
	Design -Orginal contract	$ 1,998,007	$ 1,998,007	$ -	$ 1,998,007	$ 1,998,007		$ 1,998,007
	Design and CMS Amendment 1	$ 1,373,861	$ 1,373,861	$ -	$ 1,373,861	$ 1,373,861		$ 1,373,861
1.1 & 1.2	Project 1 (gravity pipe 5000 West)	$ 3,188,523	$ 3,188,523	$ 318,852	$ 3,507,375	$ 3,188,523	$ 318,852	$ 3,507,375
1.3	Project 1 - 1800 N Gravity	$ 904,605		$ -	$ -	$ 904,605	$ 90,461	$ 995,066
1.4	Project 1 - 2425 N Gravity	$ 1,304,185		$ -	$ -	$ 1,304,185	$ 130,419	$ 1,434,604
2.1	Project 2 - 5500 W Gravity	$ 1,567,110		$ -	$ -	$ 1,567,110	$ 156,711	$ 1,723,821
2.2	Project 2 - 5500 W Gravity	$ 1,122,575		$ -	$ -	$ 1,122,575	$ 112,258	$ 1,234,833
2.3	Project 2 - 5500 W Gravity	$ 2,085,059		$ -	$ -	$ 2,085,059	$ 208,506	$ 2,293,565
2.4	LS 2 - Forcemain 1925 N	$ 1,300,000	$ 1,300,000	$ 130,000	$ 1,430,000	$ 1,300,000	$ 130,000	$ 1,430,000
4.2	18" Gravity 2425 N	$ 2,877,347		$ -	$ -			$ -
4.3&4.4	LS 1 - Forcemain 2425 N	$ 2,530,085		$ -	$ -			$ -
5	Project 5 -Lift Station 2	$ 7,273,376	$ 7,273,376	$ 290,935	$ 7,564,311	$ 7,273,376	$ 290,935	$ 7,564,311
8	Project 8 - Lift Station 1	$ 7,631,276	$ 7,631,276	$ 305,251	$ 7,936,527			$ -
	Price Reduction for Award LS1&2	$ (394,500)	$ (394,500)		$ (394,500)			
	RMP 3Ph Power Supply to LS1	$ 272,598	$ 272,598	$ -	$ 272,598			$ -
	RMP 3Ph Power Supply to LS2	$ 146,796	$ 146,796	$ -	$ 146,796	$ 146,796		$ 146,796
	Meetings 2025 and 2026	$ 95,000	$ 95,000	N/A	$ 95,000	$ 95,000	N/A	$ 95,000
	Lift Station 3 months extension	$ 90,000	$ 90,000	N/A	$ 90,000	$ 45,000	N/A	$ 45,000
	Additional Pipeline CMS	$ 1,095,277	$ 104,000	N/A	$ 104,000	$ 662,683	N/A	$ 662,683
	LS 1 CMS Credit					$ (459,541)	N/A	$ (459,541)
	Total	**$ 36,856,040**	**$ 23,473,796**	**$ 1,045,038**	**$ 24,518,835**	**$ 22,704,098**	**$ 1,438,141**	**$ 24,142,239**

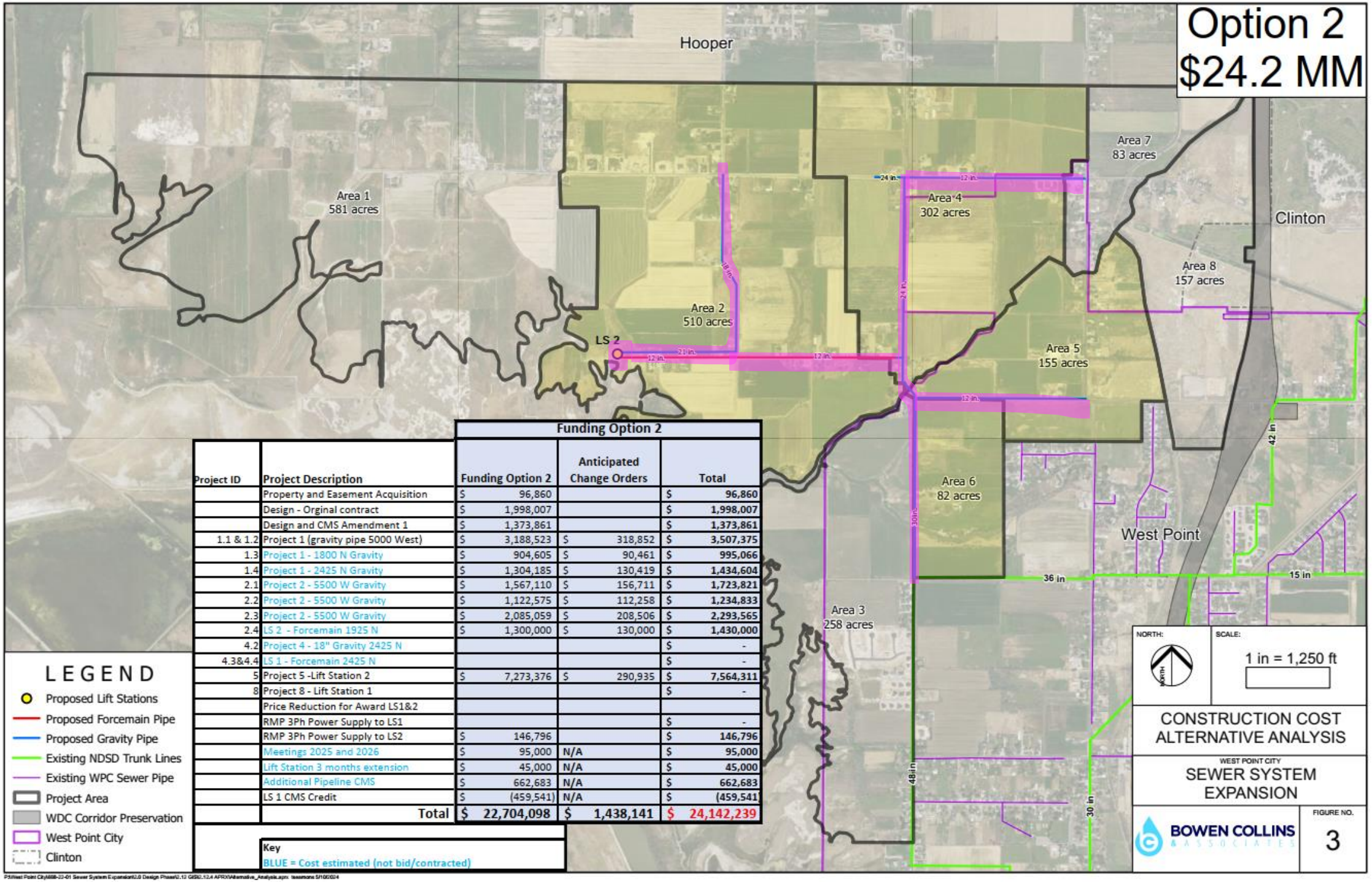
Key

Brown = Cost estimated (not bid/contracted)



		Funding Option 1		
Project ID	Project Description	Funding Option 1	Anticipated Change Orders	Total
	Property and Easement Acquisition	$ 394,860	$ -	$ 394,860
	Design - Orginal contract	$ 1,998,007	$ -	$ 1,998,007
	Design and CMS Amendment 1	$ 1,373,861	$ -	$ 1,373,861
1.1 & 1.2	Project 1 (gravity pipe 5000 West)	$ 3,188,523	$ 318,852	$ 3,507,375
1.3	Project 1 - 1800 N Gravity		$ -	$ -
1.4	Project 1 - 2425 N Gravity		$ -	$ -
2.1	Project 2 - 5500 W Gravity		$ -	$ -
2.2	Project 2 - 5500 W Gravity		$ -	$ -
2.3	Project 2 - 5500 W Gravity		$ -	$ -
2.4	LS 2 - Forcemain 1925 N	$ 1,300,000	$ 130,000	$ 1,430,000
4.2	Project 4 - 18" Gravity 2425 N		$ -	$ -
4.3&4.4	LS 1 - Forcemain 2425 N		$ -	$ -
5	Project 5 -Lift Station 2	$ 7,273,376	$ 290,935	$ 7,564,311
8	Project 8 - Lift Station 1	$ 7,631,276	$ 305,251	$ 7,936,527
	Price Reduction for Award LS1&2	$ (394,500)		$ (394,500
	RMP 3Ph Power Supply to LS1	$ 272,598	$ -	$ 272,598
	RMP 3Ph Power Supply to LS2	$ 146,796	$ -	$ 146,796
	Meetings 2025 and 2026	$ 95,000	N/A	$ 95,000
	Lift Station 3 months extension	$ 90,000	N/A	$ 90,000
	Additional Pipeline CMS	$ 104,000	N/A	$ 104,000
	LS 1 CMS Credit			
	Total	$ 23,473,796	$ 1,045,038	$ 24,518,835

Key
BLUE = Cost estimated (not bid/contracted)



		Funding Option 2		
Project ID	Project Description	Funding Option 2	Anticipated Change Orders	Total
	Property and Easement Acquisition	$ 96,860		$ 96,860
	Design - Orginal contract	$ 1,998,007		$ 1,998,007
	Design and CMS Amendment 1	$ 1,373,861		$ 1,373,861
1.1 & 1.2	Project 1 (gravity pipe 5000 West)	$ 3,188,523	$ 318,852	$ 3,507,375
1.3	Project 1 - 1800 N Gravity	$ 904,605	$ 90,461	$ 995,066
1.4	Project 1 - 2425 N Gravity	$ 1,304,185	$ 130,419	$ 1,434,604
2.1	Project 2 - 5500 W Gravity	$ 1,567,110	$ 156,711	$ 1,723,821
2.2	Project 2 - 5500 W Gravity	$ 1,122,575	$ 112,258	$ 1,234,833
2.3	Project 2 - 5500 W Gravity	$ 2,085,059	$ 208,506	$ 2,293,565
2.4	LS 2 - Forcemain 1925 N	$ 1,300,000	$ 130,000	$ 1,430,000
4.2	Project 4 - 18" Gravity 2425 N			$ -
4.3&4.4	LS 1 - Forcemain 2425 N			$ -
5	Project 5 -Lift Station 2	$ 7,273,376	$ 290,935	$ 7,564,311
8	Project 8 - Lift Station 1			$ -
	Price Reduction for Award LS1&2			
	RMP 3Ph Power Supply to LS1			$ -
	RMP 3Ph Power Supply to LS2	$ 146,796		$ 146,796
	Meetings 2025 and 2026	$ 95,000	N/A	$ 95,000
	Lift Station 3 months extension	$ 45,000	N/A	$ 45,000
	Additional Pipeline CMS	$ 662,683	N/A	$ 662,683
	LS 1 CMS Credit	$ (459,541)	N/A	$ (459,541)
	Total	$ 22,704,098	$ 1,438,141	$ 24,142,239

Key
BLUE = Cost estimated (not bid/contracted)

LEGEND
- Proposed Lift Stations
- Proposed Forcemain Pipe
- Proposed Gravity Pipe
- Existing NDSD Trunk Lines
- Existing WPC Sewer Pipe
- Project Area
- WDC Corridor Preservation
- West Point City
- Clinton

Pros and Cons

Alternative 1 – Construct lift Stations

- Pro's
  - Constructs the largest (most expensive) piece of infrastructure for each area of the unincorporated Davis County in the study area.
- Con's
  - Lift station 1 not able to be in service until its forcemain is funded and constructed.
  - Will still require large gravity sewerline construction projects in each area prior to development.

Alternative 2 – Develop Area 2

- Pros
  - Fully Develops Area 2 (complete working system)
- Cons
  - Leaves large cost for the future unfunded -(Lift Station 1)
  - Leave all of area 1 out of the grant funding
  - City/County to reimburse grant for property purchase.

Questions?