Project Updates

Town of Beaufort

May 11, 2020

Project Updates

- February 10th Regular BOC Meeting
  - 11 Project Updates
- February 27th BOC Retreat
  - 7 Projects Revisited
- March 9th Regular BOC Meeting
  - Revisited 7 Projects Again
  - 1 Project Introduced

Project Updates

- April 13th Regular BOC Meeting
  - 3 Project Updates
- Tonight
  - 6 Project Updates
    - √ 1 Complete
  - 2 New Projects

Street Rehabilitation & Construction

- Contract Executed
- May 7th Pre-Construction Meeting held
  - ➢ June 1st Notice to Proceed Date established
- RFI's and Materials Submittals being received

TOWN OF BEAUFORT

FY20 STREET REHABILITATION AND CONSTRUCTION

BOARD OF COMMISSIONERS

EVERETTE (RETT) NEWTON, MAYOR
SHARON HARKER, MAYOR PRO-TEM
ANN CARTER
JOHN HAGLE
MARIANNA HOLLINSHED
CHARLES MCDONALD

TOWN OF BEAUFORT

JOHN DAY, TOWN MANAGER
MARK EAKES, PUBLIC WORKS DIRECTOR
DONOVAN WILLIS, PUBLIC UTILITIES DIRECTOR

ENGINEERING UNIT

701 FRONT STREET - BEAUFORT, NC 28516
PHONE: (252) 728-2141 - www. beaufortnc.org

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
	PART 1: PHASE I STREET REHABILITATION AND R
T1	COVER SHEET
T2	GENERAL NOTES, ABBREVIATIONS, AND PROJECT LOC/
G1	SCHEDULE OF QUANTITIES - PHASE I STREET REHABILI
G2	MARSH STREET
G3	LIVE OAK STREET AND GORDON STREET
G4	HEDRICK STREET
G5	JEFFERSON STREET AND LAUREL STREET
G6	MASHBURN DRIVE AND SAFRIT DRIVE
G7	TAYLORS CREEK ROAD AND CRAVEN AVE
G8	CARTERET AVE, POLLOCK ST, OLIVIA RD, AND EASTERN
G9	RICKS AVE AND SHERWOOD BLVD
G10	STANTON RD AND CAMPEN RD
G11	PROFESSIONAL PARK DRIVE
D1	SIDEWALK RAMP DETAILS
D2	PAVEMENT KEY-IN AND MARKING DETAILS
D3	SEDIMENT AND EROSION CONTROL AND DRIVEWAY DE
	PART 2: PHASE I STREET IMPROVEMENTS - HOWARD JR L
1	EXISTING CONDITIONS AND DEMOLITION PLAN
2	ALLEY IMPROVEMENTS PLAN
3	SEWER IMPROVEMENTS PLAN
	PART 3: PHASE I STREET IMPROVEMENTS - WELL NO. 4 ACCES
1	OVERALL PLAN
2	WELL NO.4 ROAD PLAN AND PROFILE
3	TURN LANE DETAIL SHEET STA 0+00 TO STA 6+28.37
4	TURN LANE DETAIL SHEET STA 6+28.37 TO STA 11+83.23
	PART 4: ORANGE STREET IMPROVEM
1	PLAN AND PROFILE (WATER AND SEWER)
2	DETAILS (WATER AND SEWER)
3	PERMEABLE PAVEMENT PLAN AND DETAILS

Professional Park Drive Sewer Repair

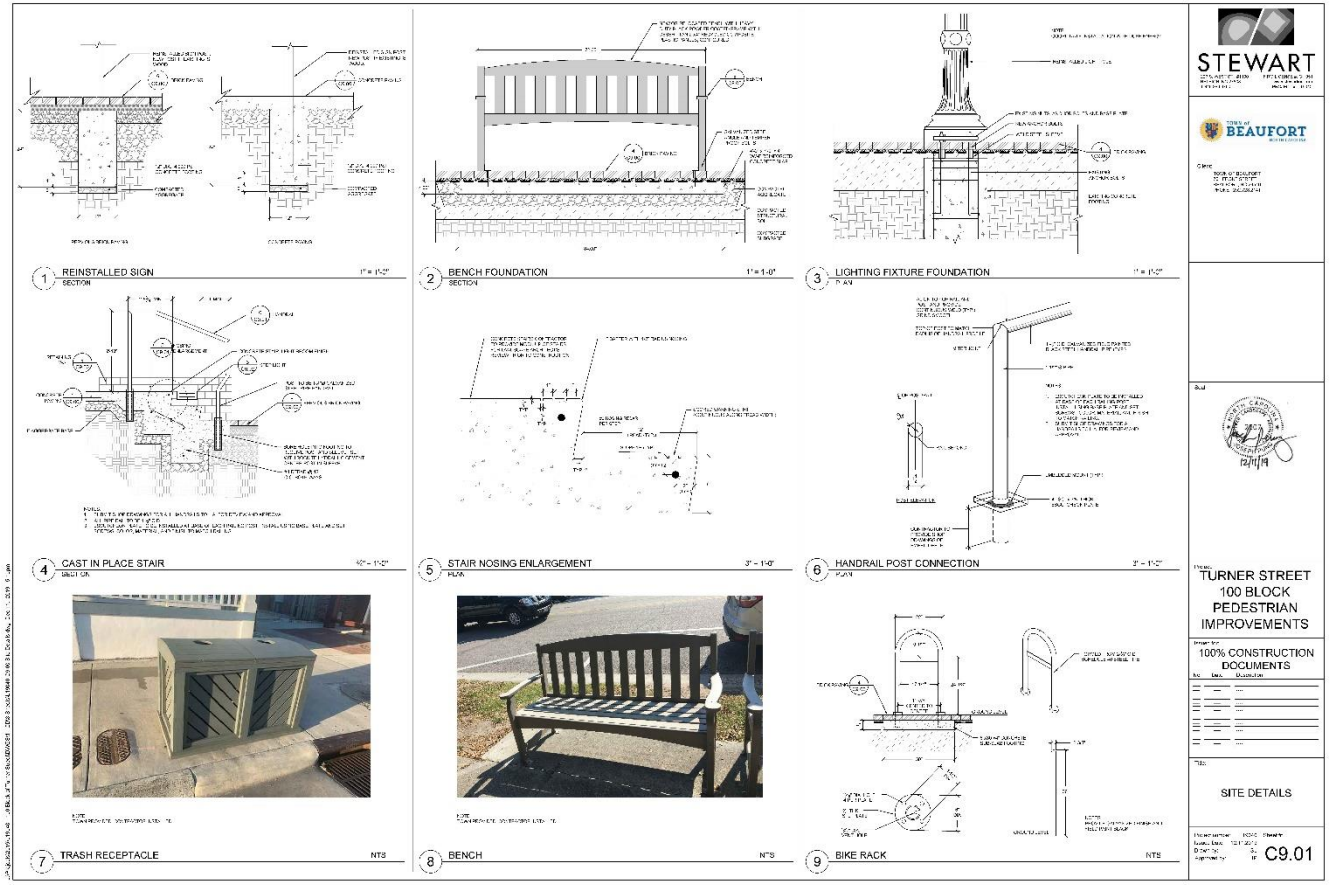
Replacement of Damaged Pipe

- Complete
- Damage determined to be due to power conduit installation
- Claim filed

Pedestrian Improvements

Turner Street 100 Block Street Improvements (West Side)

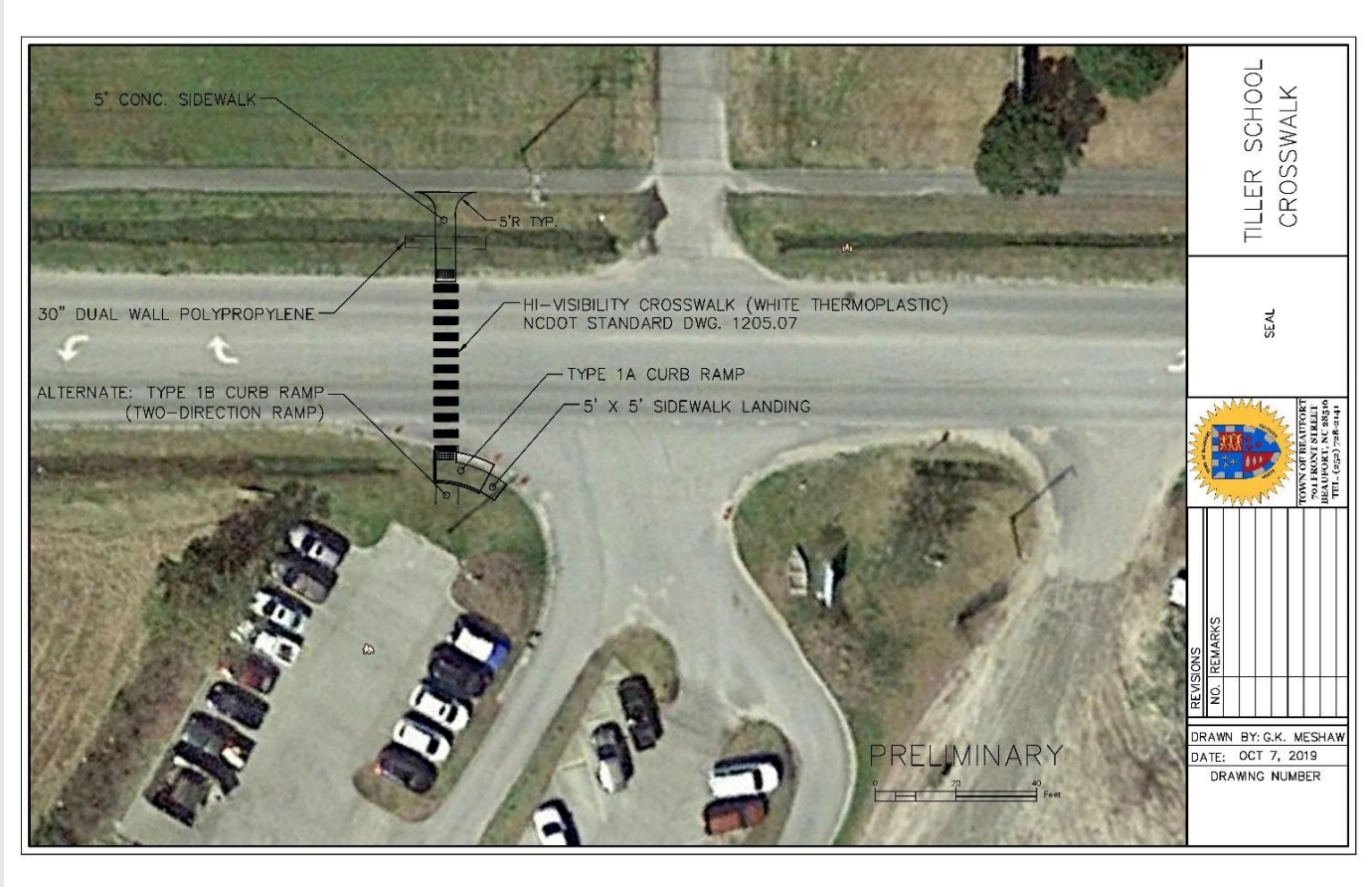
- Bids received March 9th
  - $152,694
- Post-Labor Day Notice to Proceed
- Expanded Project being examined
  - Mid-Block ADA Crosswalk
  - Middle Lane Sidewalk
  - Street Planter Bulb-outs



Pedestrian Improvements

Tiller School Pedestrian Crossing

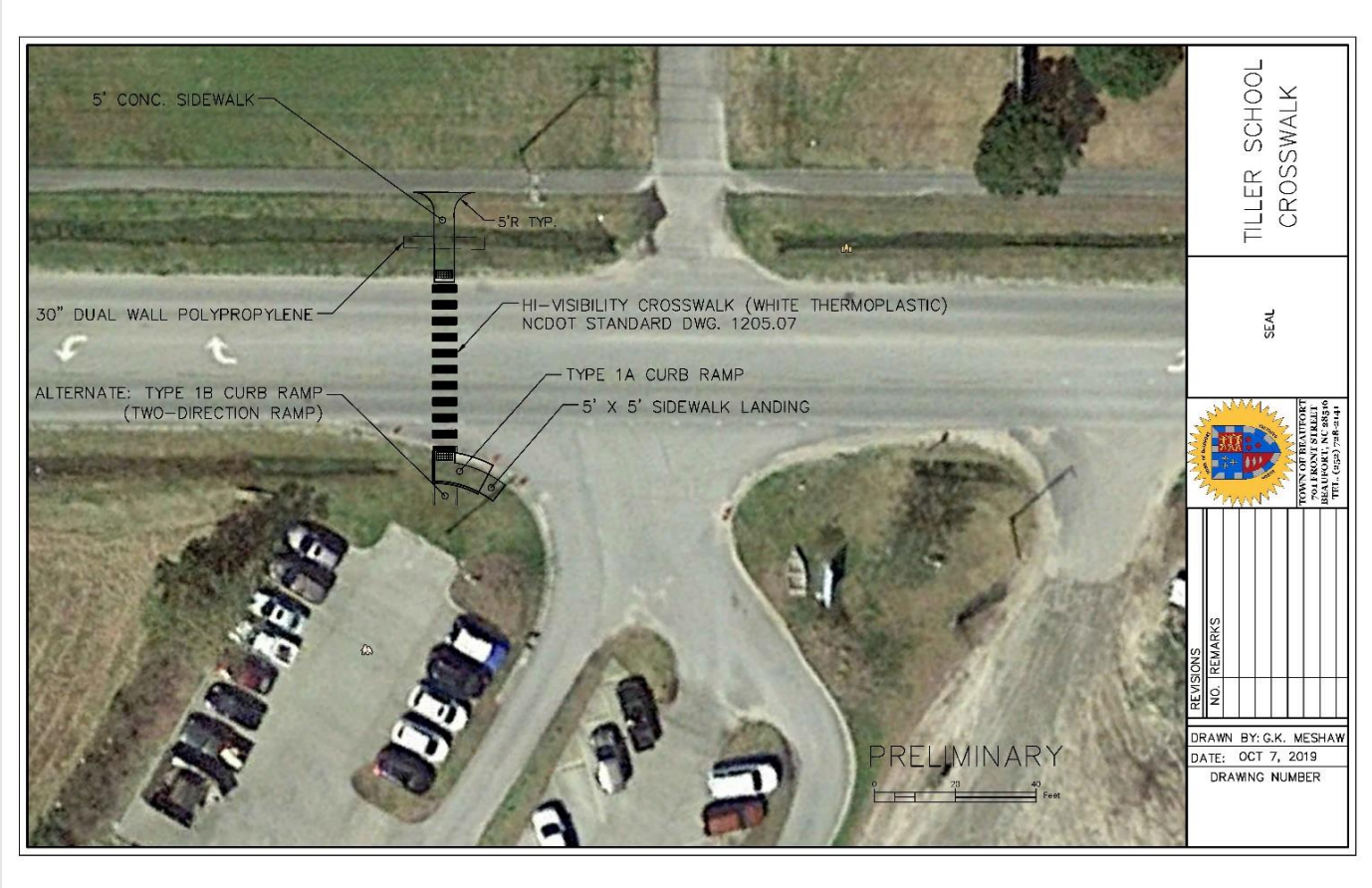
- February 21st Request to NCDOT
  - Approval Request
  - Funding Request
- NCDOT Response
  - Pedestrian Count with Points of Origin Request



Pedestrian Improvements

Tiller School Pedestrian Crossing

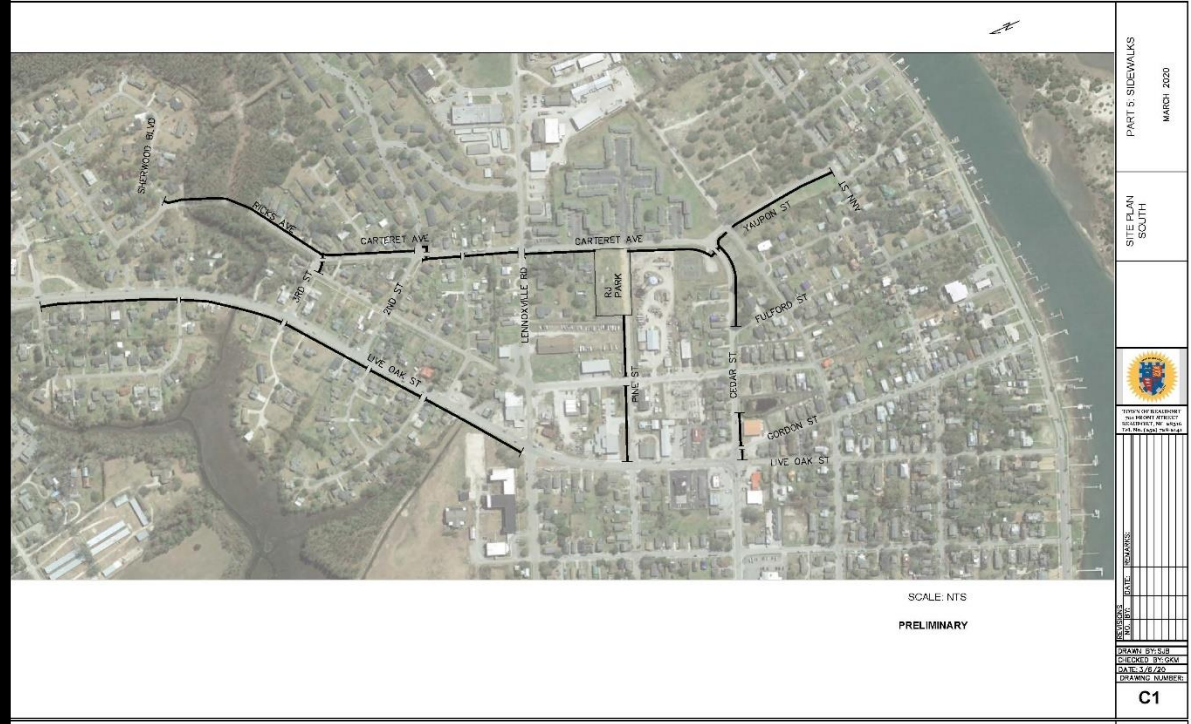
- School-provided counts transmitted
- NCDOT Regional Traffic Safety Engineer reviewing

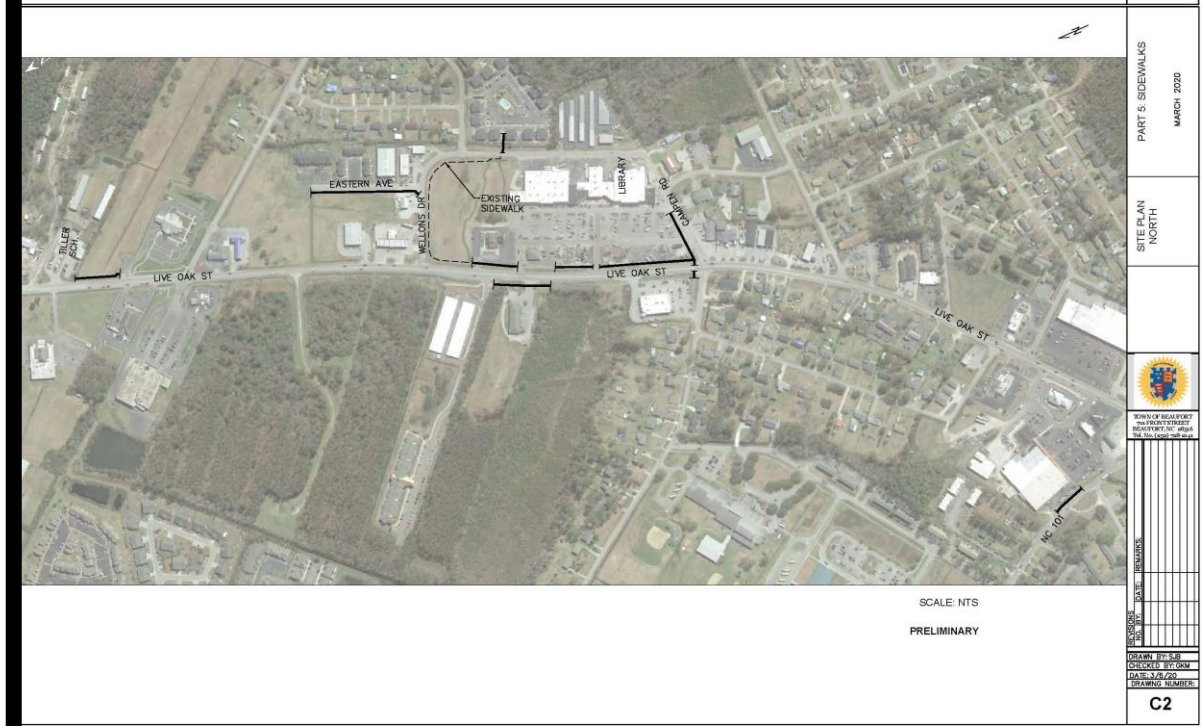


Pedestrian Improvements

Part 5
FY20 Street Rehabilitation & Construction Project

- 22 proposed segments
  - $1.3 million estimate
- May 7th: Street contractor provided list
- Surveying & detailed design required for 13 segments





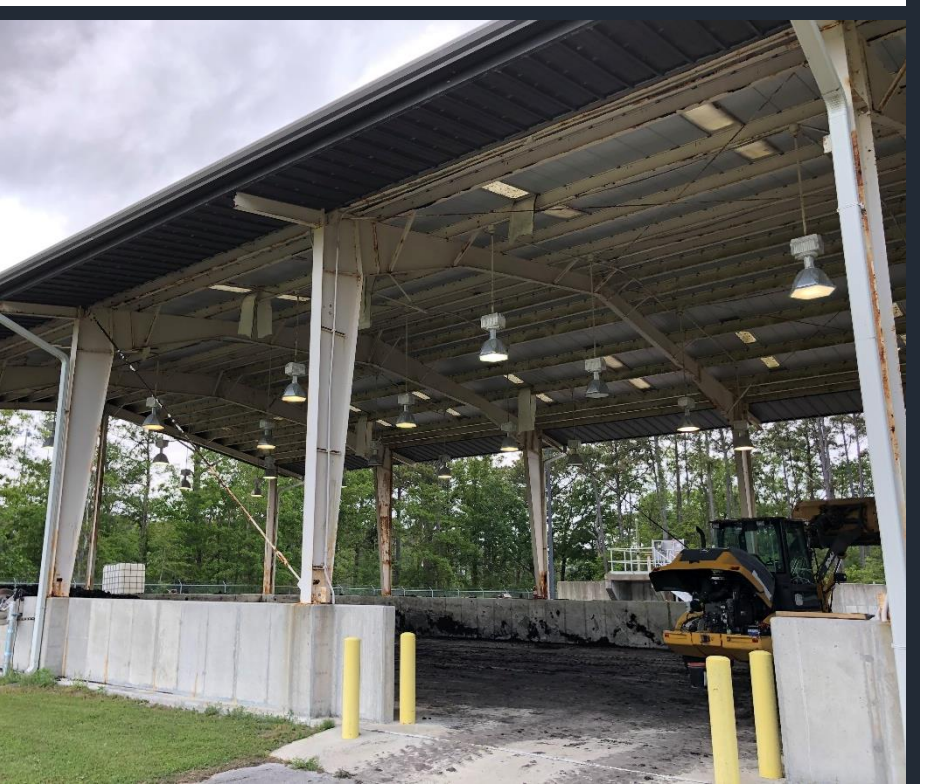
Randolph Johnson Park

- **Splashpad installation complete**

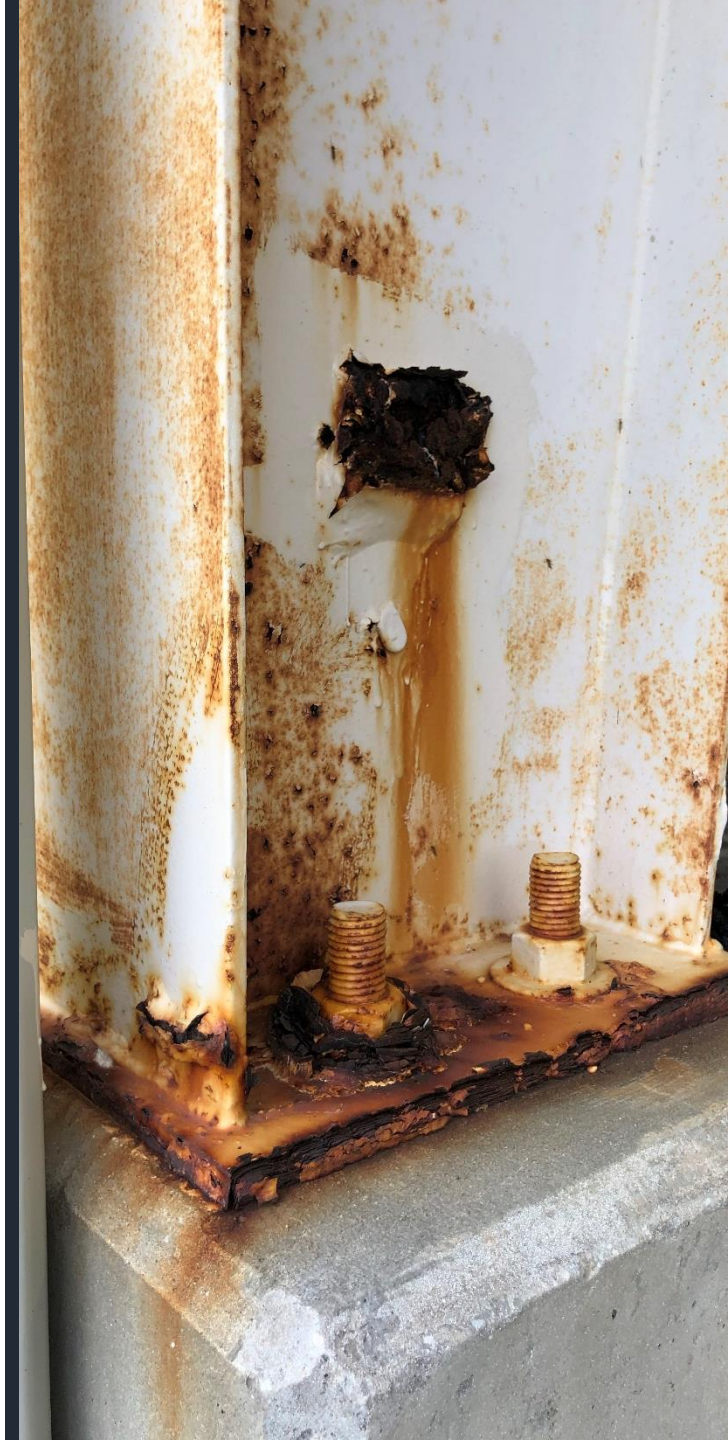
Randolph Johnson Park

- Building about 1/3 complete
- Playground start expected in 1 to 2 weeks
- Overall: 3 weeks behind schedule

Sludge Handling Facility Repainting



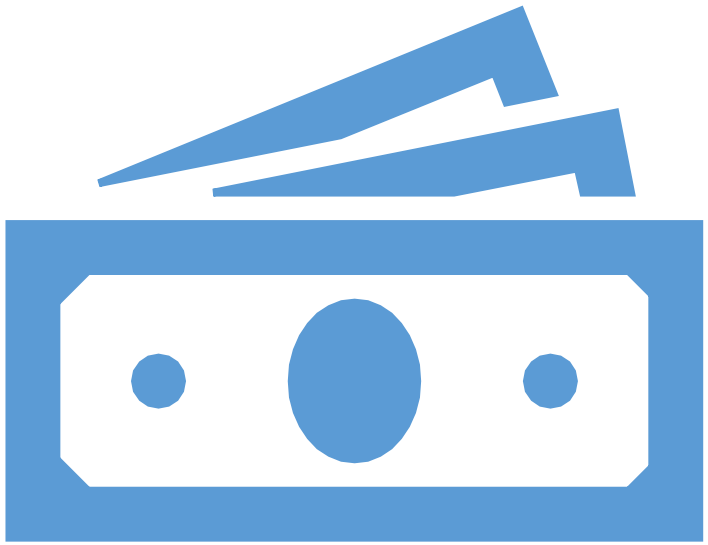
- Blasting/Grinding to remove corrosion
- Re-painting
- Details, specifications & bid documents
  - In-house preparation



USDA WATER & SEWER FUNDING

Funding Assumptions

- Town has sufficient funds for $10 Million Debt Payment
- Town will qualify for Maximum Grants
  - 75% Sewer Grant
  - 10% Water Grant



USDA WATER & SEWER FUNDING

Option 1: Maximize Grants

- Assume 75% Sewer - 10% Water Grants & $10 Million Loan
  - More Sewer Work

USDA WATER & SEWER FUNDING

OPTION 1- MAXIMIZING TOTAL GRANT TO LOAN FUNDS (Includes All Sewer Segments)

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1360	STANTON RD	W BEAUFORT RD-N END	254.6	2019					Stanton Rd	Pipe 75 - Replace 210' 6" TC from W. Beaufort Rd northward	74	$ 122,253
1590	LAUREL LN	LENNOXVILLE RD-S END	461.4	2019	Laurel Ln	Install new 6" PVC from Ann St to Lennoxville Rd	$62,898	10				
1990	SAFRIT DR	LENNOXVILLE RD-400 FT N OF LENNOXVILLE RD	400	2019					Safrit Dr	Pipe 175 - Clean/TV, Point Repair, Sliplining from Lennoxville Rd northward on Safrit Dr - 170'-8" TC	111	$ 29,441
1010	CRESCENT DR	LIVE OAK ST-CAMPEN RD	1,785.3	2019					Crescent Rd	Pipe 135 - CCTV Only - Campen Rd south - 690'-8" CIPP	84	$ 5,280
1010	CRESCENT DR	LIVE OAK ST-CAMPEN RD	1,785.3	2019	Crescent Dr	6" PVC Waterline from Live Oak St to Campen Rd	$121,248	1A	Crescent Rd	Pipe 152 - CCTV Only - Live Oak St to turn - 430'-8" CIPP	67	$ 3,646
1190	VINE ST	JONES AVE-SYCAMORE DR	845.1	2019					Vine St	Pipe 130 - Clean/TV, Point Repair, Slip Lining on Vine St from Jones Av to Sycamore Dr - 860'-8" PVC	30	$ 214,788
1230	GEORGE ST	LIVE OAKS ST-RICKS AVE	260.1	2019					George St	Pipe 122 - CCTV only between Live Oak St to Sherwood Blvd - 140'-8" CIPP	85	$ 4,023
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1680	SUNSHINE CT	FRONT ST-LENNOXVILLE RD	601.8	2019					Sunshine Ct	Pipe 15 - Clean/TV, Point Repair, Slip Lining - 420'8" TC	18	$ 121,210

USDA WATER & SEWER FUNDING

Street Rehab Priority

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Add Sewer Projects to 75% Grant Amount

$10 Mil Grant & $2.5 Mil Loan

USDA WATER & SEWER FUNDING

Add Water Projects to 10% Grant + $7.5 Mil

$750K Grant & $7.5 Mil Loan

OPTION 1- MAXIMIZING TOTAL GRANT TO LOAN FUNDS (Includes All Sewer Segments)

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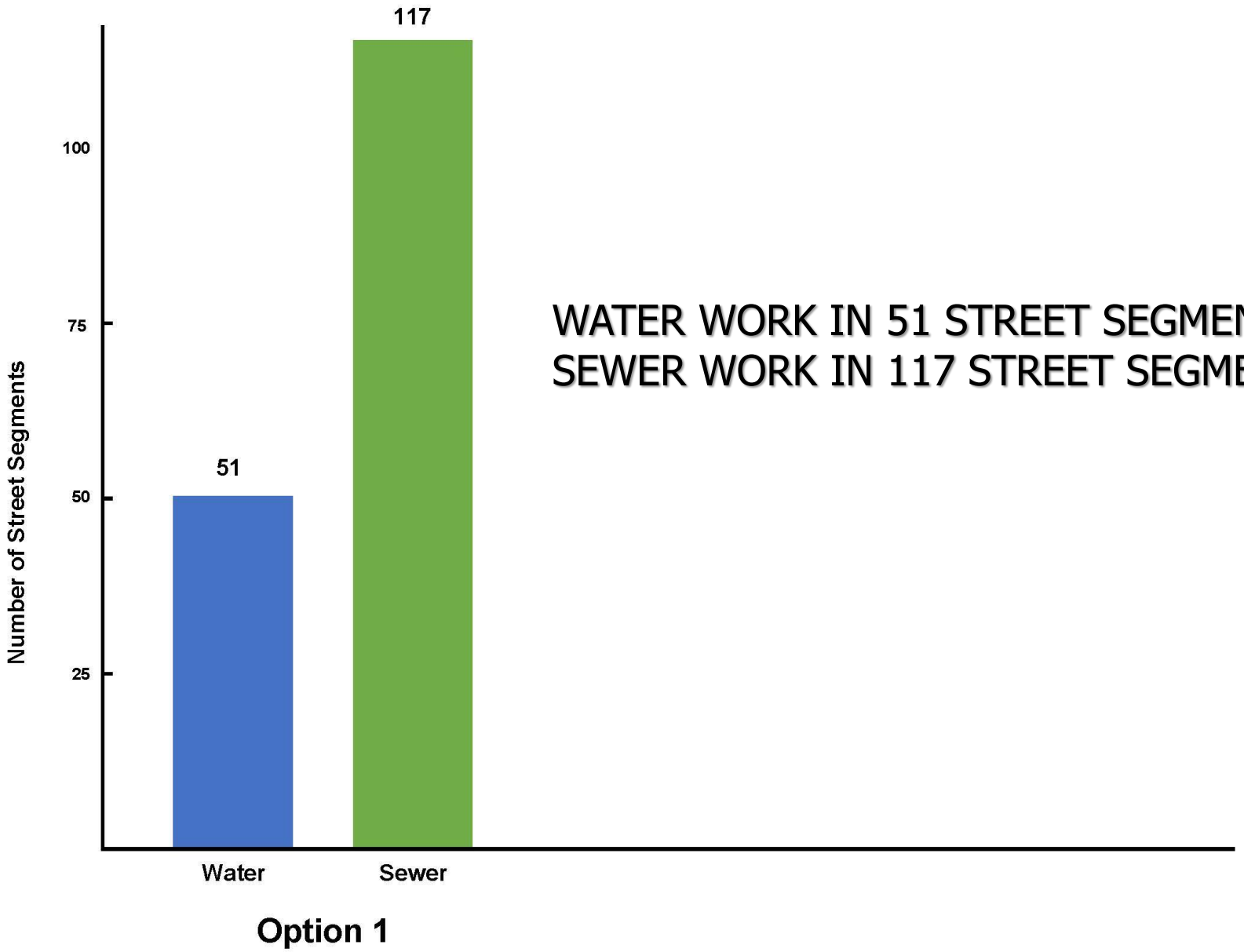
1010	CRESCENT DR	LIVE OAK ST-CAMPEN RD	1,785.3	2019					Crescent Rd	Pipe 135 - CCTV Only - Campen Rd south - 690'-8" CIPP	84	$ 5,280
1010	CRESCENT DR	LIVE OAK ST-CAMPEN RD	1,785.3	2019	Crescent Dr	6" PVC Wate[redacted] Live Oak St to Campen Rd	$121,248	1A	Crescent Rd	Pipe 152 - CCTV Only - Live Oak St to turn - 430'-8" CIPP	67	$ 3,646
1190	VINE ST	JONES AVE-SYCAMORE DR	845.1	2019					Vine St	Pipe 130 - Clean/TV, Point Repair, Slip Lining on Vine St from Jones Av to Sycamore Dr - 860'-8" PVC	30	$ 214,788
1230	GEORGE ST	LIVE OAKS ST-RICKS AVE	260.1	2019					George St	Pipe 122 - CCTV only between Live Oak St to Sherwood Blvd - 140'-8" CIPP	85	$ 4,023
1300	RONNIE RD	530 FT E OF JOYCE BLVD-ANGELA RD	555.7	2019					Ronnie Rd	Pipe 69 - Clean/TV, Point Repair, Slip Lining - Ronnie Rd from Angela Av toward Joyce Blvd - 550'-8" PVC	47	$ 148,401
1370	ANN ST	W END-SUNSET LN	429.9	2019	Ann St - A	Replace 6" [redacted]PVC from W End to Suns[redacted]	$180,488	6				
1380	ANN ST	SUNSET LN-MOORE ST	253.6	2019	Ann St - B	Replace 6" [redacted]PVC from Sunset Ln to[redacted]	$106,219	6				
1390	ANN ST	MOORE ST-ORANGE ST	438.2	2019	Ann St - C	Replace 6" [redacted]PVC from Moore St to[redacted]	$183,793	6				
1400	ANN ST	ORANGE ST-TURNER ST	470.7	2019	Ann St - D	Replace 6" [redacted]PVC from Orange St to[redacted]	$197,618	6				
1410	ANN ST	TURNER ST-CRAVEN ST	448.4	2019	Ann St - E	Replace 6" [redacted]PVC from Turner St to[redacted]	$188,255	6	Ann St	Pipe 86 - Clean/TV, Point Repair, Sliplining from Turner St to Craven St - 440'-10" TC	54	$ 164,077
1420	ANN ST	CRAVEN ST-QUEEN ST	376.2	2019	Ann St - F	Replace 6" [redacted]PVC from Craven St to[redacted]	$157,943	6				
1430	ANN ST	QUEEN ST-POLLOCK ST	452.6	2019	Ann St - G	Replace 6" [redacted]PVC from Queen St to[redacted]	$190,019	6	Ann St	Pipe 34 - CCTV Only - Queen St to Pollock St- 300'-8" CIPP	97	$ 2,640
1440	ANN ST	POLLOCK ST-MARSH ST	453.1	2019	Ann St - H	Replace 6" [redacted]PVC from Pollock St to[redacted]	$190,229	6				
1470	ANN ST	GORDON ST-FULFORD ST	640.1	2019	Ann St - A	Replace 6" A[redacted]h 6" PVC from Gordon St t[redacted]t	$237,223	8	Ann St	Pipe 31 - CCTV only - on Ann St between Gordon St and Fulford St - 710' -8" CIPP	43	$ 5,406
1480	ANN ST	FULFORD ST-ELM ST	236.6	2019	Ann St - B	Replace 6" [redacted]VC from Fulford St to[redacted]	$87,685	8	Ann St	Pipe 178 -Clean/TV, Point Repair, Slip Lining - 140'-6" TC	10	$ 142,995
1490	ANN ST	ELM ST-HILL ST	226.4	2019	Ann St - C	Replace 6" [redacted]VC from Elm St to Hill St	$83,905	8	Ann St	Pipe 28 - Clean/TV, Point Repair, Slip Lining - 230'-8" TC	2	$ 89,229
1500	ANN ST	HILL ST-YOUPON ST	88.4	2019	Ann St - D	Replace 6" [redacted]VC from Hill St to Youpon [redacted]	$32,761	8				
1560	ANN ST	OCEAN ST-E END	321.6	2019	Ann St - B	Install new [redacted] Ocean St. to Laurel Ln	$31,449	10	Ann St	Pipe 18 - Clean/TV, Point Repair, Slip Lining from Ocean east - 220'-8" TC	88	$ 52,258
1680	SUNSHINE CT	FRONT ST-LENNOXVILLE RD	601.8	2019					Sunshine Ct	Pipe 15 - Clean/TV, Point Repair, Slip Lining - 420'8" TC	18	$ 121,210

USDA WATER & SEWER FUNDING



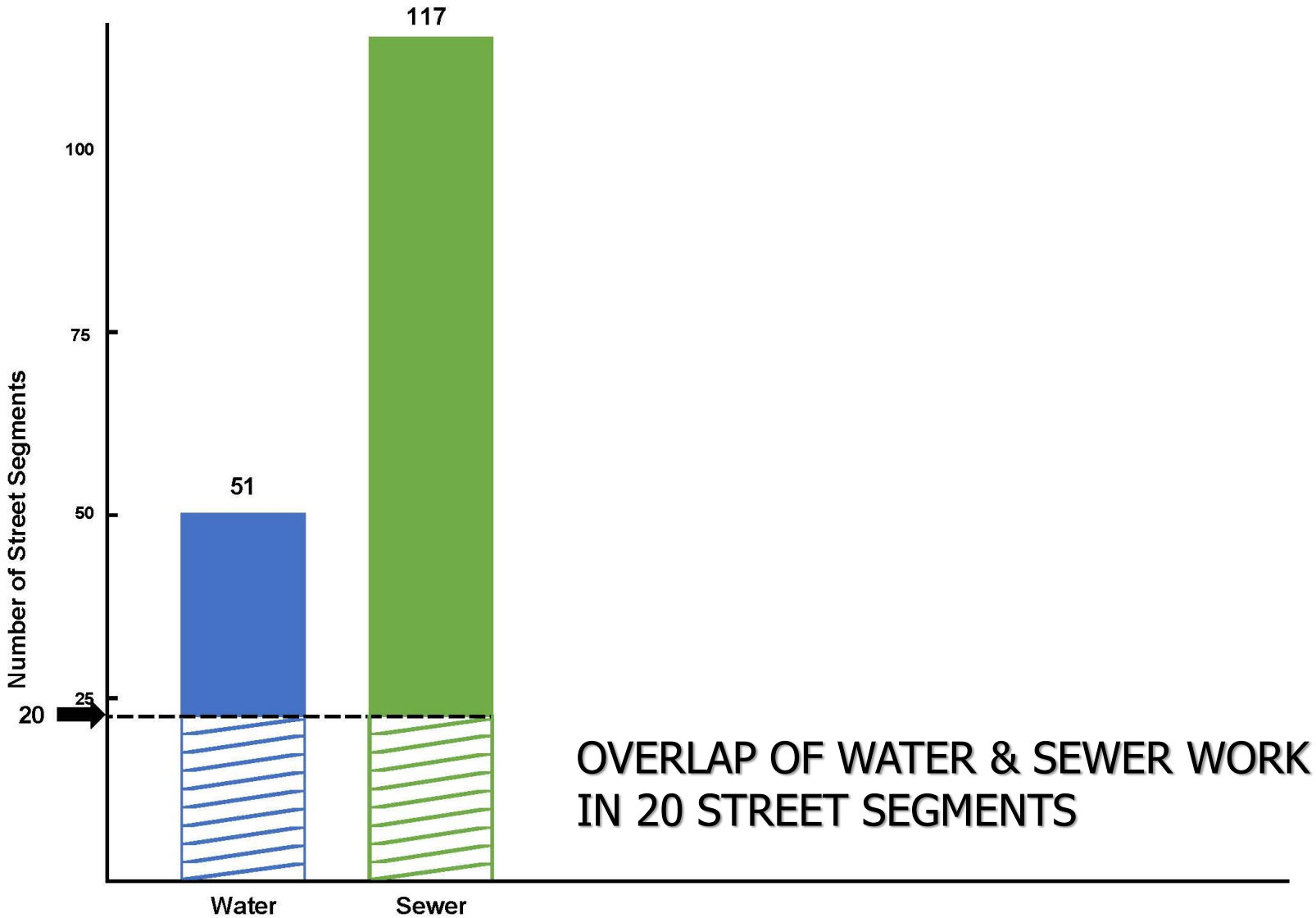
WATER WORK IN 51 STREET SEGMENTS
SEWER WORK IN 117 STREET SEGMENTS

USDA WATER & SEWER FUNDING

	Water	Sewer	Total
Grant	$ 820,000	$10,740,000	$ 11,560,000
Loan	$ 7,400,000	$ 2,680,000	$ 10,080,000
	$ 8,220,000	$13,420,000	**$ 21,640,000**

Option 1: Maximize Grants

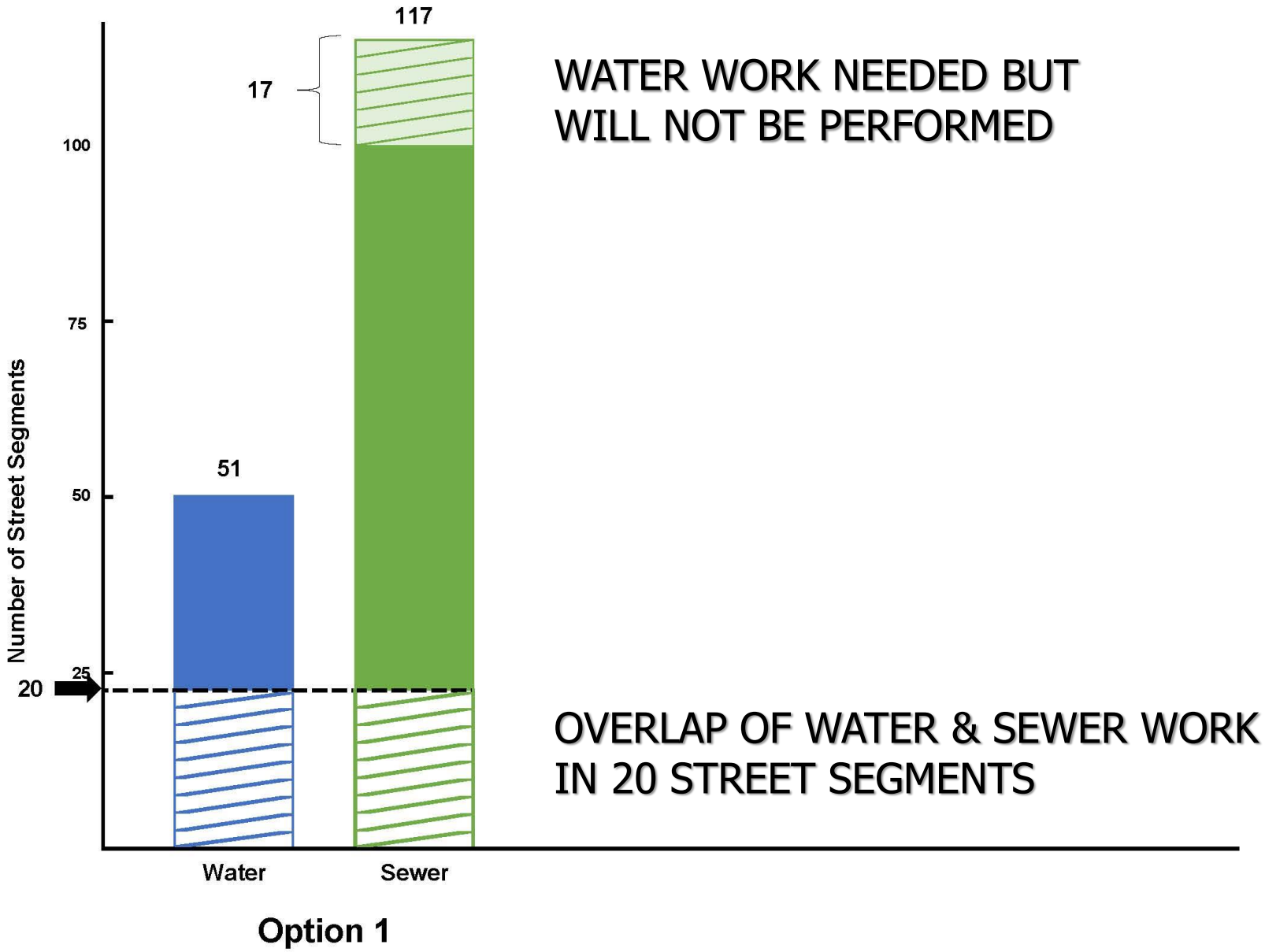
USDA WATER & SEWER FUNDING



OVERLAP OF WATER & SEWER WORK
IN 20 STREET SEGMENTS

Option 1

USDA WATER & SEWER FUNDING



Option 1

USDA WATER & SEWER FUNDING

Option 2: Touch it Once

- Examine each Street Segment for both Water & Sewer
- $10 Million Loan
- Maximizing of Grants not the Primary Objective

USDA WATER & SEWER FUNDING

OPTION 1- MAXIMIZING TOTAL GRANT TO LOAN FUNDS (Includes All Sewer Segments)

STREET SEGMENT					WATER SYSTEM CIP				SANITARY SEWER SYSTEM CIP			
Section No.	Street	Limits	Segment Length (ft)	ROAD RESURFACING YEAR	Project	Description	Cost (2018)	Priority	Project	Description	Priority	Total Project Cost
1260	SHERWOOD BLVD	RICKS AVE-GEORGE ST	303.5	2019					Sherwood Blvd	Pipe 124 - CCTV Only on Sherwood Blvd from Ricks to G 0'-8" CIPP	23	$ 1,886
1360	STANTON RD	W BEAUFORT RD-N END	254.6	2019					Stanton Rd	Pipe 75 - Repla TC from W. Beaufort Rd no	74	$ 122,253
1590	LAUREL LN	LENNOXVILLE RD-S END	461.4	2019	Laurel Ln	Install new 6" PV n St to Lennoxville Rd	$62,898	10				
1990	SAFRIT DR	LENNOXVILLE RD-400 FT N OF LENNOXVILLE RD	400	2019					Safrit Dr	Pipe 175 - Clea t Repair, Sliplining from e Rd northward on Safrit Dr - 1	111	$ 29,441
1010	CRESCENT DR	LIVE OAK ST-CAMPEN RD	1,785.3	2019					Crescent Rd	Pipe 135 - CCT mpen Rd south - 690'-8"	84	$ 5,280
1010	CRESCENT DR	LIVE OAK ST-CAMPEN RD	1,785.3	2019	Crescent Dr	6" PVC Waterlin Oak St to Campen Rd	$121,248	1A	Crescent Rd	Pipe 152 - CCT e Oak St to turn - 430'-8" C	67	$ 3,646
1190	VINE ST	JONES AVE-SYCAMORE DR	845.1	2019					Vine St	Pipe 130 - Clea t Repair, Slip Lining on Vine nes Av to Sycamore Dr - C	30	$ 214,788
1230	GEORGE ST	LIVE OAKS ST-RICKS AVE	260.1	2019					George St	Pipe 122 - CCT ween Live Oak St to Sherwoo 0'-8" CIPP	85	$ 4,023
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1370	ANN ST	W END-SUNSET LN	429.9	2019	Ann St - A	Replace 6" CI wi from W End to Sunset Ln	$180,488	6				
1380	ANN ST	SUNSET LN-MOORE ST	253.6	2019	Ann St - B	Replace 6" CI wi from Sunset Ln to Mo	$106,219	6				
1390	ANN ST	MOORE ST-ORANGE ST	438.2	2019	Ann St - C	Replace 6" CI wi from Moore St to Ora	$183,793	6				
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1420	ANN ST	CRAVEN ST-QUEEN ST	376.2	2019	Ann St - F	Replace 6" CI wi from Craven St to Qu	$157,943	6				
1430	ANN ST	QUEEN ST-POLLOCK ST	452.6	2019	Ann St - G	Replace 6" CI wi from Queen St to Pol	$190,019	6	Ann St	Pipe 34 - CCTV een St to Pollock St- 300	97	$ 2,640
1440	ANN ST	POLLOCK ST-MARSH ST	453.1	2019	Ann St - H	Replace 6" CI wi from Pollock St to Ma	$190,229	6				
1470	ANN ST	GORDON ST-FULFORD ST	640.1	2019	Ann St - A	Replace 6" AC & PVC from Gordon St to Fu	$237,223	8	Ann St	Pipe 31 - CCTV Ann St between Gordon St and - 710' -8" CIPP	43	$ 5,406
1480	ANN ST	FULFORD ST-ELM ST	236.6	2019	Ann St - B	Replace 6" CI wi from Fulford St to Elm	$87,685	8	Ann St	Pipe 178 -Clea Repair, Slip Lining - 140'-6	10	$ 142,995
1490	ANN ST	ELM ST-HILL ST	226.4	2019	Ann St - C	Replace 6" CI wi from Elm St to Hill St	$83,905	8	Ann St	Pipe 28 - Clean Repair, Slip Lining - 230'-8	2	$ 89,229
1500	ANN ST	HILL ST-YOUPON ST	88.4	2019	Ann St - D	Replace 6" CI wi from Hill St to Youpon St	$32,761	8				
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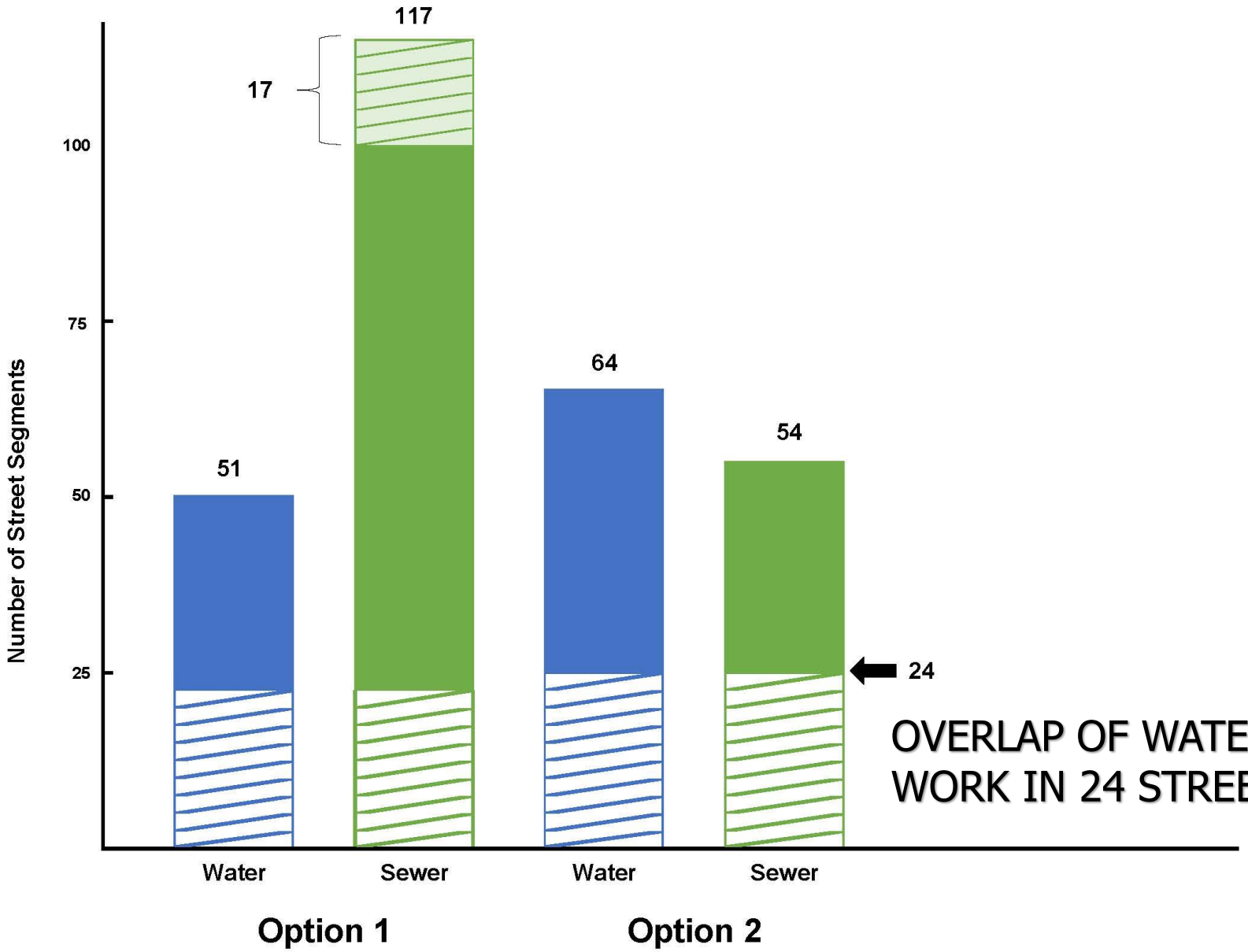
1680	SUNSHINE CT	FRONT ST-LENNOXVILLE RD	601.8	2019					Sunshine Ct	Pipe 15 - Cl pair, Slip Lining - 420'8"	18	$ 121,210

USDA WATER & SEWER FUNDING



OVERLAP OF WATER & SEWER WORK IN 24 STREET SEGMENTS

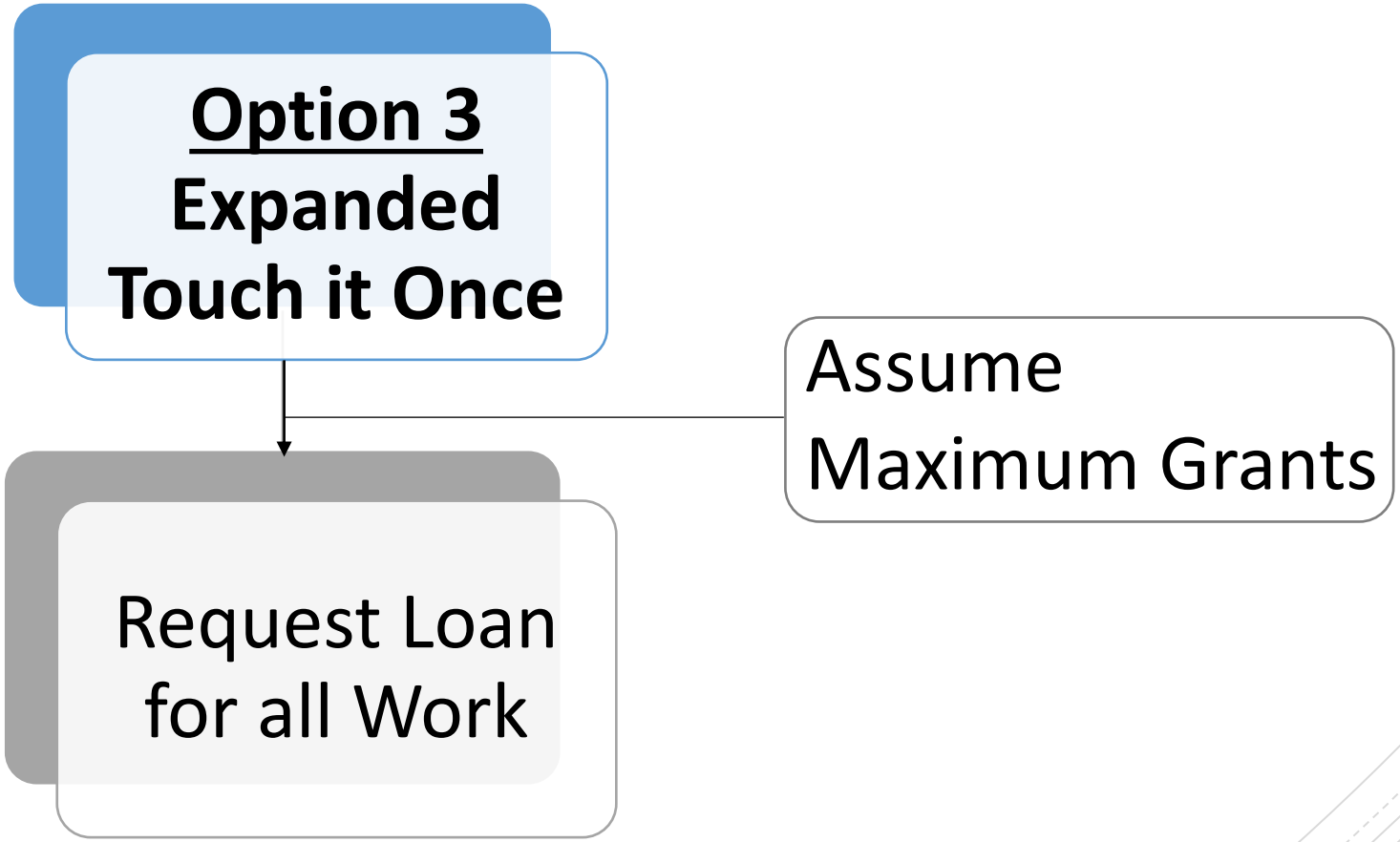
USDA WATER & SEWER FUNDING

	Water	Sewer	Total
Grant	$ 990,000	$ 3,360,000	$ 4,350,000
Loan	$ 8,910,000	$ 1,140,000	$ 10,050,000
	$ 9,900,000	$ 4,500,000	**$ 14,400,000**

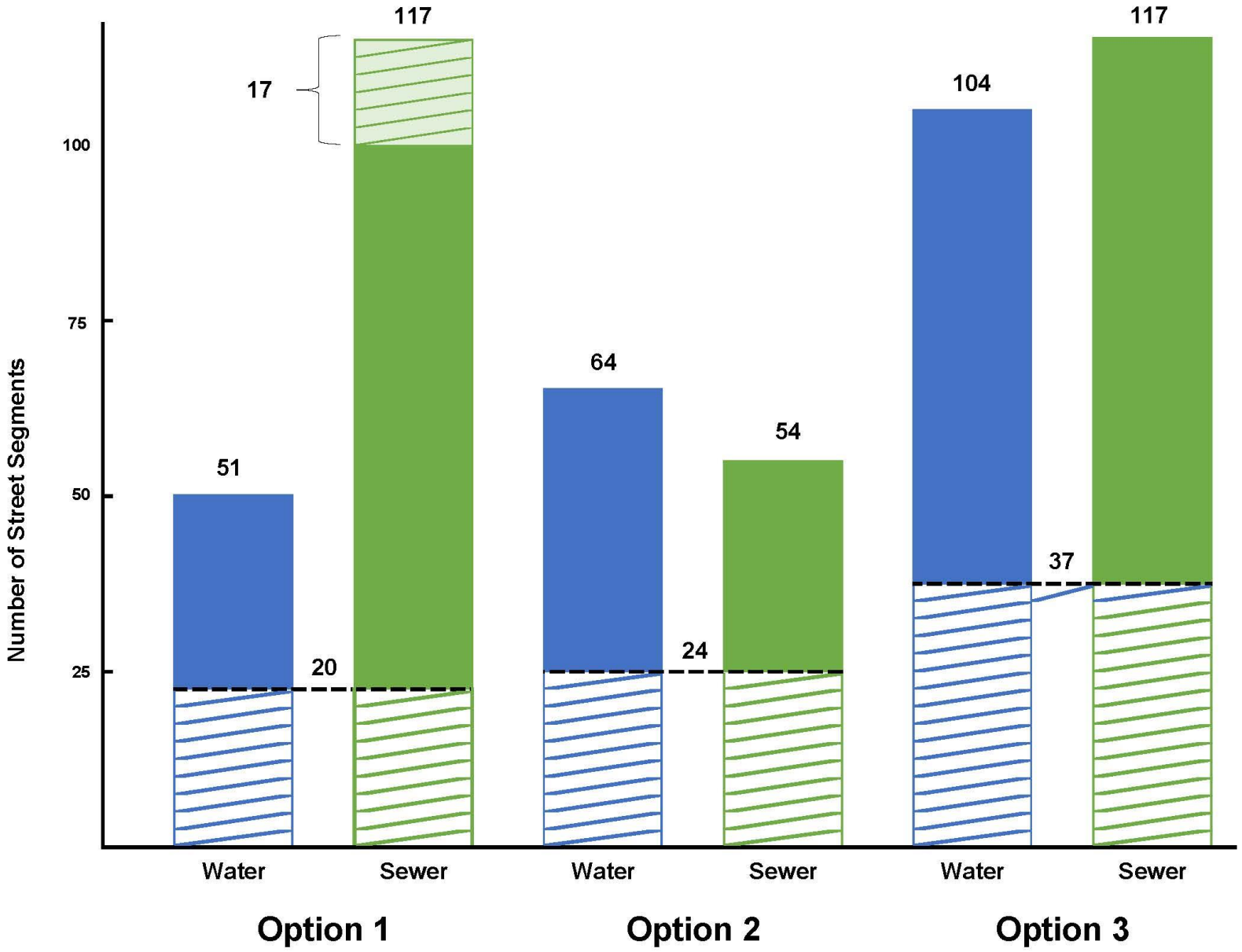
Option 2: Touch it Once

- Grant Fund Utilization Suffers (- 62%)
- Project Total Suffers (- 33%)

USDA WATER & SEWER FUNDING



USDA WATER & SEWER FUNDING



USDA WATER & SEWER FUNDING

	Water	Sewer	Total
Grant	$ 1,710,000	$10,740,000	$ 12,450,000
Loan	$15,540,000	$ 2,680,000	$ 18,220,000
	$17,250,000	$13,420,000	**$ 30,670,000**

Option 3: Expanded Touch it Once

- Loan up by $8.14± Million over Option 1
- Project up by $9.03± Million

USDA WATER & SEWER FUNDING

5,000 Gallon Usage

	Before	After
Water	$ 35.72	$ 49.12
Sewer	$105.17	$105.72
Total	**$140.89**	**$154.29**

Affording Additional $8.14 Million Loan

- $284,575/year debt service
  - @ 1.5% for 40 years
- Variable Water Rate Change
  - $5.07/1,000 gallons
    ↓
    $7.75±/1,000 gallons
  - 53%⬆

Project Updates

Questions?

Comments?