



**District 8-0 Bridge Unit**  
**Department of Transportation**

CO. \_\_\_\_\_ **Summary** \_\_\_\_\_  
 S.R. \_\_\_\_\_ **SUBJECT** \_\_\_\_\_ **TIP Analysis** \_\_\_\_\_ **BY: DRM** \_\_\_\_\_ **DATE: 3/6/2023** \_\_\_\_\_  
 SEG. \_\_\_\_\_ **OFFSET** \_\_\_\_\_ **CHKD. BY:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**\*\*\*SHADED CELLS ARE INPUT\*\*\***

N/A
Local Projects
TIP Projects
Major Projects
TYP Projects
Preservation
Proposed Projects
Maint. Force
Misc. Structures
Medium BMC



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This sheet contains much of the inputs that are pulled into the rest of the sheet for Cost and Budget purposes.

## Costs

Cost data is pulled from the following location:

**File Location:** J:\Design Division\District Bridge Engineer\6 - Funding & Planning\1 - Unit Costs

**File Name:** Structure Unit Costs - 08-02-2019 to 08-02-2022

**Tab Name:** Summary

**Date of Data:** 2019 through 2022

		Total Replacement			Partial Replacement		Rehabilitation		Preservation	
		Culvert (2)	Bridge (3)	Com-bined	Super-structure	Deck	Stone Arch	Conc. Arch		
Design Cost (Total Cost)	Preliminary Engineering	\$296,242	\$319,848	\$310,518	\$215,915	\$138,765	\$196,528	\$220,848	\$107,492	
	Final Design	\$175,172	\$229,551	\$198,113	\$202,539	\$257,226	\$112,583	\$139,289	\$163,241	
	Preliminary + Final	\$471,414	\$549,398	\$508,631	\$418,454	\$395,991	\$309,111	\$360,136	\$270,733	
	Right-of-Way	\$17,438	\$19,732	\$18,385	\$4,271	\$7,098	\$18,365	\$26,709	\$238	
Design Cost (Cost per SF)	No. of Projects with Design Costs	37	27	64	10	3	3	5	10	
	Total Associated SF Area	30,912	100,284	131,196	25,303	20,722	4,222	11,883	143,199	
	Average SF Area	835	3,714	2,050	2,530	6,907	1,407	2,377	14,320	
	Total Design Cost (PE + FD + R/W)	\$18,383,784	\$15,346,797	\$33,710,629	\$4,227,253	\$1,209,270	\$982,427	\$1,934,228	\$2,709,704	
	Average Cost per SF	\$595	\$153	\$257	\$167	\$58	\$233	\$163	\$19	
Construction Cost (Cost per SF)	Structure Only	2020 Average	\$414	\$342	\$378	(1)	(1)	(1)	(1)	\$73
		2021 Average	\$449	\$406	\$426	(1)	(1)	(1)	(1)	\$64
		2022 Average	\$719	\$353	\$634	(1)	(1)	(1)	(1)	\$97
		Overall Average	\$507	\$365	\$446	\$236	\$143	\$372	\$157	\$72
	Low Bid (w/o CENG)	2020 Average	\$826	\$567	\$697	(1)	(1)	(1)	(1)	\$103
		2021 Average	\$877	\$752	\$812	(1)	(1)	(1)	(1)	\$125
		2022 Average	\$1,301	\$494	\$1,115	(1)	(1)	(1)	(1)	\$184
		Overall Average	\$974	\$627	\$825	\$402	\$233	\$596	\$356	\$133
	Constr. Engineering (CENG)		\$122	\$78	\$103	\$50	\$29	\$75	\$44	\$17
	Low Bid Average + CENG		\$1,096	\$706	\$928	\$452	\$262	\$671	\$400	\$149
	<b>Total (Cost per SF)</b>		<b>\$1,690</b>	<b>\$859</b>	<b>\$1,185</b>	<b>\$619</b>	<b>\$320</b>	<b>\$904</b>	<b>\$563</b>	<b>\$168</b>

Based on the above table, square foot unit costs were selected. It is important to note that these costs include all design & construction. Work that was already on the "TIP/TYP" only has the following notes for scope: "Preservation/Rehabilitation/Replacement". It is unknown what cost data was used to develop these TIP/TYP project cost estimates; thus we are using new unit costs to update these.



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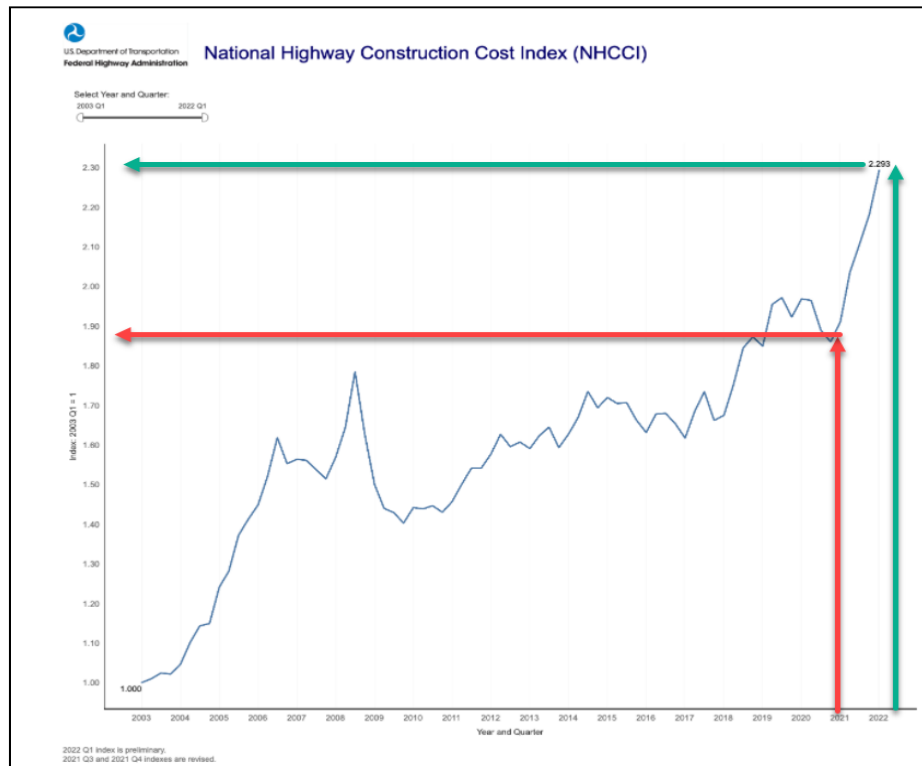
Updated Costs for Existing TIP/TYP	
Inflation Adjusted Costs	Cost / SF
Preservation	\$168
Rehabilitation	\$550 *
Replacment	\$859

\*Typically these are superstructure replacements, so weighted towards this cost.

Selected Cost Data - Total Cost		
#	Scope	Cost / SF
0	None	\$0
1	Minor Repairs	\$100
2	Preservation	\$168
3	Rehab & Deck Replacement	\$320
4	Rehab & SS Replacement	\$619
5	Full Replacement	\$859
6	Culvert Replacement	\$1,690
7	Culvert Relining	\$846

Inflation data is pulled from the National Highway Construction Cost Index (NHCCI). Initial year is high due to heavy inflation in 2021-2022., but typically becomes 3% over time.

2023 Inflation =	1.21
2024+ Inflation =	1.03
Base Year =	2023



Inflation data is pulled from the National Highway Construction Cost Index (NHCCI). Initial year is high due to heavy inflation in 2021-2022., but typically becomes 3% over time.



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**BAMs & D8-0 (MPO) Costs**

It is important to note that Bridge Care is PennDOT's in-house life cycle analysis software for Bridge Asset Management (BAMs). This program reduces the available budgets (discussed below) to 65% of the amount stated in the Financial Guidance document. This 35% reduction is to account for PE/FD/UTL/ROW/CMCI costs. MPO's program on the total cost though, so moving between MPO and BAMS requires a factor to account for this change.

BAMS --> D8-0 Cost Factor	1.54
D8-0 --> BAMS Cost Factor	0.65

BAMS Cost --> Major Project Cost	1.33
Major Project Cost --> BAMS Cost Factor	0.75



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## Budgets

Budgets are taken from Financial Guidance given to the Planning & Programming Unit. The different "buckets" are explained graphically below and an example for Lebanon County is explained in detail. Note that all funding buckets are combined into one for input into BAMs.

**File Location:** J:\Design Division\District Bridge Engineer\6 - Funding & Planning\7 - Financial Guidance

**File Name:** Pennsylvania 2023 Transportation Program Financial Guidance FINAL 3-8-22

# BRIDGE PLANNING

100% Bridge

40% Bridge

0% Bridge

## Bridge Programmatic Funding

Appendix 2: FFY 2023 -- Highway/Bridge Base Funding Allocation (\$000)

Region	NHPP	STP	State Highway (Capital)	State Bridge	Off System Bridges (BOF)	HSIP	Highway Freight Program	Rail Highway Safety	CMAQ	STP TAP Set-Aside	STP-Urban	Carbon Reduction	PROTECT	Bridge Formula Program (BRIP)	Total
DVRPC	121,609	27,899	43,021	38,354	3,472	24,528	0	0	39,553	7,932	85,174	0	0	41,313	448,080
SPC	93,590	38,926	45,969	49,056	3,128	13,550	0	0	22,909	3,657	39,272	0	0	52,795	393,854
Harrisburg	23,190	8,533	11,130	10,690	5,913	3,897	0	0	4,968	938	10,067	0	0	11,432	91,758
Scranton/WB	17,218	7,168	8,494	8,712	5,382	4,142	0	0	0	805	8,641	0	0	8,584	69,145
Lehigh Valley	19,691	6,836	9,906	7,581	5,514	5,224	0	0	6,386	1,333	14,320	0	0	7,848	84,638
NEPA	8,306	7,844	8,319	4,458	5,291	3,292	0	0	536	0	0	0	0	5,055	43,101
SEDA-COG	19,685	9,795	12,409	12,650	9,239	2,377	0	0	0	0	0	0	0	12,018	78,172
Altoona	3,167	2,345	2,293	2,674	2,297	1,302	0	0	0	0	0	0	0	2,472	16,550
Johnstown	6,765	2,524	3,642	3,328	2,106	1,133	0	0	1,418	0	0	0	0	3,005	23,920
Centre County	4,634	2,065	2,711	1,955	1,356	1,117	0	0	0	0	0	0	0	1,969	15,806
Williamsport	5,467	3,370	3,734	4,001	3,152	1,084	0	0	0	0	0	0	0	3,749	24,558
Erie	5,537	3,744	4,820	3,376	2,703	2,096	0	0	0	0	0	0	0	3,013	25,288
Lancaster	15,401	8,532	10,283	7,903	5,712	3,820	0	0	5,125	848	9,105	0	0	7,827	75,556
York	6,062	5,963	7,963	3,551	4,478	2,930	0	0	4,291	489	5,256	0	0	3,509	43,483
Reading	15,658	5,183	7,899	6,246	4,043	3,331	0	0	4,059	562	6,031	0	0	6,743	59,755
Lebanon	2,006	1,915	2,526	1,372	1,372	1,363	0	0	1,318	0	0	0	0	1,265	13,137
Morristown	1,806	3,031	3,317	2,494	2,676	1,198	0	0	0	0	0	0	0	2,310	17,667

Lebanon County - Without State Highway

Funding Pot	NHPP	STP	State Highway	State Bridge	BOF	BRIP
Amount	\$2,006	\$1,915	\$0	\$1,372	\$1,372	\$1,265
Bridge Allocation	\$802	\$766	\$0	\$1,372	\$1,372	\$1,265
Total	\$5,577					
BAMS Budget (65% of Total to account for design/insp costs)	\$3,625					

→ MPO Budget

→ BridgeCare Budget



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Again, BAMS assumes a reduced (65%) budget to account for PE/FD/UTL/ROW/CMCI costs. For the first two years of the TIP (2023 and 2024), most of this additional cost has been paid for in prior years of the TIP. Thus the budget for MPO & BAMS is set at the same (non-reduced) amount to account for this in years 1 & 2. This is noted in the blue cells.

<b>BAMS Budgets</b>						
Year	Adams	Franklin	HATS	Lancaster	Lebanon	York
2023	\$6,003,692	\$6,470,308	\$45,751,692	\$35,657,077	\$5,577,538	\$17,446,154
2024	\$5,906,308	\$6,420,154	\$45,185,385	\$35,302,308	\$5,524,308	\$17,333,385
2025	\$3,804,100	\$4,168,000	\$29,185,900	\$22,858,700	\$3,579,500	\$11,261,300
2026	\$3,766,000	\$4,159,800	\$28,982,500	\$22,755,700	\$3,565,600	\$11,249,300
2027	\$3,670,500	\$4,110,700	\$28,398,500	\$22,367,100	\$3,515,200	\$11,096,200
2028	\$3,598,900	\$4,074,100	\$27,963,100	\$22,076,900	\$3,477,600	\$10,981,900
2029	\$3,598,200	\$4,073,800	\$27,962,200	\$22,075,800	\$3,477,500	\$10,981,400
2030	\$3,596,900	\$4,073,400	\$27,960,600	\$22,073,700	\$3,477,400	\$10,980,400
2031	\$3,595,800	\$4,073,100	\$27,959,200	\$22,071,800	\$3,477,400	\$10,979,600
2032	\$3,594,400	\$4,072,600	\$27,957,400	\$22,069,600	\$3,477,300	\$10,978,600
2033	\$3,593,600	\$4,072,400	\$27,956,400	\$22,068,300	\$3,477,200	\$10,978,000
2034	\$3,592,100	\$4,071,900	\$27,954,600	\$22,065,900	\$3,477,200	\$10,977,000
Disc. 1	\$0	\$7,200,000	\$0	\$0	\$0	\$0
Disc. 2	\$0	\$3,400,000	\$0	\$0	\$0	\$0
<b>Total</b>	\$48,320,500	\$64,440,262	\$373,217,477	\$293,442,885	\$46,103,746	\$145,243,238

<b>MPO Budgets</b>						
Year	Adams	Franklin	HATS	Lancaster	Lebanon	York
2023	\$6,003,692	\$6,470,308	\$45,751,692	\$35,657,077	\$5,577,538	\$17,446,154
2024	\$5,906,308	\$6,420,154	\$45,185,385	\$35,302,308	\$5,524,308	\$17,333,385
2025	\$5,852,462	\$6,412,308	\$44,901,385	\$35,167,231	\$5,506,923	\$17,325,077
2026	\$5,793,846	\$6,399,692	\$44,588,462	\$35,008,769	\$5,485,538	\$17,306,615
2027	\$5,646,923	\$6,324,154	\$43,690,000	\$34,410,923	\$5,408,000	\$17,071,077
2028	\$5,536,769	\$6,267,846	\$43,020,154	\$33,964,462	\$5,350,154	\$16,895,231
2029	\$5,535,692	\$6,267,385	\$43,018,769	\$33,962,769	\$5,350,000	\$16,894,462
2030	\$5,533,692	\$6,266,769	\$43,016,308	\$33,959,538	\$5,349,846	\$16,892,923
2031	\$5,532,000	\$6,266,308	\$43,014,154	\$33,956,615	\$5,349,846	\$16,891,692
2032	\$5,529,846	\$6,265,538	\$43,011,385	\$33,953,231	\$5,349,692	\$16,890,154
2033	\$5,528,615	\$6,265,231	\$43,009,846	\$33,951,231	\$5,349,538	\$16,889,231
2034	\$5,526,308	\$6,264,462	\$43,007,077	\$33,947,538	\$5,349,538	\$16,887,692
Disc. 1	\$0	\$7,200,000	\$0	\$0	\$0	\$0
Disc. 2	\$0	\$3,400,000	\$0	\$0	\$0	\$0



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\*\*\*SHADED CELLS ARE INPUT\*\*\*

<b>Total</b>	\$67,926,154	\$86,490,154	\$525,214,615	\$413,241,692	\$64,950,923	\$204,723,692
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## Output Scenarios

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**File Location:** J:\Design Division\District Bridge Engineer\6 - Funding & Planning\2 - TIP\TIP Analysis\BridgeCare Outputs  
**File Name:** Varies

### Scenario 0 - TIP/TYP

*Case:* This is the current TIP/TYP. Not worth running in BAMS since its costs are badly out of date.

### Scenario 1 - Adjusted

*Case:* This is the existing TIP/TYP that has been updated for new unit costs & inflation.

*Surplus Funding:* No additional money has been assigned to either MPMS projects or BAMS.

*Deficit Funding:* No change is made, costs allowed to go over budget as much as needed to fit TIP/TYP.

*Output Notes:* N/A

### Scenario 2 - BAU

*Case:* This is the existing TIP/TYP that has been updated for new unit costs & inflation.

*Surplus Funding:* Funding has been assigned on a Business As Usual (BAU) case which is effectively Worst First Case.

*Deficit Funding:* Projects are cancelled as needed to reduce the costs to below budget.

*Output Notes:* Funding summaries can be inaccurate do to funding being manually manipulated to prevent BAMS from over-assigning work. Not done for every year/MPO, but done as needed to prevent errors in BAMS.

### Scenario 3 - R&R

*Case:* This is the existing TIP/TYP that has been rescoped during bridge scoping meetings and new unit costs/inflation.

*Surplus Funding:* Funding has been assigned according to BAMS internal rules.

*Deficit Funding:* N/A

*Output Notes:* Funding summaries can be inaccurate do to funding being manually manipulated to prevent BAMS from over-assigning work. Not done for every year/MPO, but done as needed to prevent errors in BAMS.





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**Deck Area Weighting for BMC**

County	Deck Area	Sus. River Bridge	Comparative DA	Percentage
Adams	642,929	0	642,929	5%
Cumberland	1,672,200	0	1,672,200	14%
Dauphin	4,741,296	1,877,396	2,863,900	24%
Franklin	733,369	0	733,369	6%
Lancaster	3,601,473	930,889	2,670,584	23%
Lebanon	753,004	0	753,004	6%
Perry	556,915	0	556,915	5%
York	1,911,081	0	1,911,081	16%

Bridge	BRKEY	Deck Area	County
South Bridge	14257	367,302	Dauphin
South Bridge Viaduct	14258	217,167	Dauphin
Walnut West	14568	29,400	Dauphin
Walnut East	40215	29,820	Dauphin
Market West	14529	77,674	Dauphin
Mart East	14531	81,504	Dauphin
Wade	14214	602,846	Dauphin
Harvey Taylor	14543	310,097	Dauphin
Clarks Ferry	14144	51,569	Dauphin
Clarks Ferry	14146	55,984	Dauphin
Clarks Ferry	14151	54,033	Dauphin
Subtotal =		1,877,396	

Bridge	BRKEY	Deck Area	County
SR 30	20997	489,552	Lancaster
Columbia Wrightsville	21270	319,536	Lancaster
Normanwood	21239	121,801	Lancaster
Subtotal =		930,889	



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**Costs**

- Design Support:** N/A
- Wall inspection:** Sandeep email 4/28/2023
- Sign Inspection:** Sandeep email 4/28/2023

Anticipated Need for Design Support =	\$ 3,000,000
Anticipated Need for Test Borings =	\$ 3,000,000
Anticipated Need for wall inspections =	\$ 300,000
Anticipated Need for wall inspections =	\$ 1,200,000
<b>Total =</b>	<b>\$ 7,500,000</b>

Weighting			
County	Percentage	Cost	Cost/Yr
Adams	5%	<b>\$ 410,000</b>	\$34,167
Cumberland	14%	<b>\$ 1,070,000</b>	\$89,167
Dauphin	24%	<b>\$ 1,820,000</b>	\$151,667
Franklin	6%	<b>\$ 470,000</b>	\$39,167
Lancaster	23%	<b>\$ 1,700,000</b>	\$141,667
Lebanon	6%	<b>\$ 480,000</b>	\$ 40,000
Perry	5%	<b>\$ 360,000</b>	\$ 30,000
York	16%	<b>\$ 1,220,000</b>	\$101,667



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2023 Inflation =   
 2024+ Inflation =   
 Base Year =

ation Contract Value =  \$/yr  
 ation Contract Value =  \$/yr  
 TIP Length =  YR (ignore 1st year)

2027 Inflation =   
 ation Contract Value =  \$/yr  
 ation Contract Value =  \$/yr  
 1st TYP Length =  YR

2031 Inflation =   
 ation Contract Value =  \$/yr  
 ation Contract Value =  \$/yr  
 2nd TYP Length =  YR

Summary - TIP (2023-2026)			
County	Percentage	Light Pres.	Medium Pres.
Adams	5%	\$330,000	\$330,000
Cumberland	14%	\$850,000	\$850,000
Dauphin	24%	\$1,460,000	\$1,460,000
Franklin	6%	\$380,000	\$380,000
Lancaster	23%	\$1,360,000	\$1,360,000
Lebanon	6%	\$390,000	\$390,000
Perry	5%	\$290,000	\$290,000
York	16%	\$980,000	\$980,000

Summary - TYP (2027-2030)			
County	Percentage	Light Pres.	Medium Pres.
Adams	5%	\$580,000	\$580,000
Cumberland	14%	\$1,500,000	\$1,500,000
Dauphin	24%	\$2,570,000	\$2,570,000
Franklin	6%	\$660,000	\$660,000



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Lancaster	23%	\$2,400,000	\$2,400,000
Lebanon	6%	\$680,000	\$680,000
Perry	5%	\$500,000	\$500,000
York	16%	\$1,720,000	\$1,720,000

**Summary - TYP (2031-2034)**

County	Percentage	Light Pres.	Medium Pres.
Adams	5%	\$650,000	\$650,000
Cumberland	14%	\$1,690,000	\$1,690,000
Dauphin	24%	\$2,890,000	\$2,890,000
Franklin	6%	\$740,000	\$740,000
Lancaster	23%	\$2,700,000	\$2,700,000
Lebanon	6%	\$760,000	\$760,000
Perry	5%	\$570,000	\$570,000
York	16%	\$1,930,000	\$1,930,000



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Department of Transportation

CO. \_\_\_\_\_ All \_\_\_\_\_

S.R. \_\_\_\_\_ SUBJECT \_\_\_\_\_ TYP Update \_\_\_\_\_

BY: DRM

DATE: 4/9/2023

SEG. \_\_\_\_\_ OFFSET \_\_\_\_\_

CHKD. BY: \_\_\_\_\_

DATE: \_\_\_\_\_

\*\*\*SHADED CELLS ARE INPUT\*\*\*

#	Scope	Cost / SF
0	None	\$0
1	Minor Repairs	\$100
2	Preservation	\$168
3	Rehab & Deck Replacement	\$320
4	Rehab & SS Replacement	\$619
5	Full Replacement	\$859
6	Culvert Replacement	\$1,690
7	Culvert Relining	\$846

	Width
0	None
1	Minor Neck Down
2	"1 Lane Bridge"

BAMS --> D8-0 Cost Factor	1.54
D8-0 --> BAMS Cost Factor	0.65

Inflation Adjusted Costs	Cost / SF
Preservation	\$168
Rehabilitation	\$550
Replacement	\$859

Inflation Data	Factor
2023 Inflation =	1.21
2024+ Inflation =	1.03
Base Year =	2023



District 8-0 Bridge Unit  
Department of Transportation

CO.                                           All                     

S.R.                      SUBJECT                      TYP Update

BY:                       DRM                     

DATE:                       4/9/2023                     

SEG.            OFFSET                     

CHKD. BY:                     

DATE:                     

**\*\*\*SHADED CELLS ARE INPUT\*\*\***

		BAMs Budget Comparison											
		Adams		Franklin		HATS		Lancaster		Lebanon		York	
Scenario	Title	Funding	%	Funding	%	Funding	%	Funding	%	Funding	%	Funding	%
-	BAMS Budget	\$48,320,500		\$64,440,262		\$373,217,477		\$293,442,885		\$46,103,746		\$145,243,238	
2	BAMS Cost	\$23,410,674		\$54,314,818		\$306,126,030		\$287,678,820		\$54,117,556		\$166,894,593	
	BAU Budget	\$24,909,826		\$10,125,443		\$67,091,447		\$5,764,064		-\$8,013,810		-\$21,651,355	
	BAU Projects	\$24,697,739		\$10,118,232		\$67,010,731		\$75,907,275		\$0		\$0	
	<b>Delta</b>	<b>\$212,087</b>		<b>\$7,211</b>		<b>\$80,716</b>		<b>-\$70,143,211</b>		<b>-\$8,013,810</b>		<b>-\$21,651,355</b>	
	<b>Good / Bad?</b>	<b>Good</b>		<b>Good</b>		<b>Good</b>		<b>Bad</b>		<b>Bad</b>		<b>Bad</b>	

Adams				
MPMS	BRKEY	Scope	BAMs Cost	LET
BAU	41	Replacement	\$986,844	2028
	54		\$5,128,491	2033
	61		\$3,165,856	2033
	67		\$207,140	2025
	86		\$749,718	2025
	97		\$2,571,781	2034
	114		\$3,479,380	2025
	173		\$864,860	2026
	190		\$224,945	2026
	213		\$179,395	2026
	245		\$298,991	2026
	255		\$228,298	2029
	267		\$988,517	2027
	292		\$1,831,144	2028
	331		\$467,567	2029
	339		\$394,963	2029
	349		\$301,547	2029
407	\$1,739,740	2031		
425	\$380,812	2032		

Franklin				
MPMS	BRKEY	Scope	BAMs Cost	LET
BAU	17281	Replacement	\$574,861	0
	17295		\$383,240	0
	17340		\$455,022	0
	17348		\$364,991	0
	17383		\$4,912,169	0
	17457		\$462,626	0
	17500		\$209,109	0
	17508		\$306,973	0
	17530		\$359,288	0
	17582		\$484,449	0
	17610		\$1,605,504	0
		0	0	
		0	0	
		0	0	
		0	0	
		0	0	
		0	0	
		0	0	
		0	0	

Lebanon				
MPMS	BRKEY	Scope	BAMs Cost	LET
BAU	N/A	Replacement	N/A	0
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	



**District 8-0 Bridge Unit**  
 Department of Transportation

CO.                      **All**

S.R.                      **SUBJECT**                      TYP Update

BY:   **DRM**  

DATE:   **4/9/2023**  

SEG.            **OFFSET**                     

CHKD. BY:                     

DATE:                     

<b>***SHADED CELLS ARE INPUT***</b>											
	447		\$507,749	2032					0		0

Total =

Total =

Total =



**District 8-0 Bridge Unit**  
**Department of Transportation**

CO. \_\_\_\_\_ **All** \_\_\_\_\_

S.R. \_\_\_\_\_ **SUBJECT** \_\_\_\_\_ TYP Update

BY: **DRM**

DATE: **4/9/2023**

SEG. \_\_\_\_\_ **OFFSET** \_\_\_\_\_

CHKD. BY: \_\_\_\_\_

DATE: \_\_\_\_\_

**\*\*\*SHADED CELLS ARE INPUT\*\*\***

Cumberland/Dauphin/Perry				
MPMS	BRKEY	Scope	BAMs Cost	LET
BAU	14644	Replacement	\$1,301,801	2027
	14693		\$2,056,724	2027
	14064		\$2,619,114	2027
	14048		\$1,630,293	2027
	29753		\$314,805	2027
	14750		\$2,031,174	2027
	14560		\$845,638	2027
	29635		\$1,304,842	2027
	29726		\$350,619	2027
	14645		\$413,656	2027
	14739		\$3,370,539	2027
	14724		\$1,650,671	2027
	14737		\$549,083	2027
	14558		\$23,321,777	2027
	14631		\$1,403,694	2027
	29622		\$1,720,020	2027
	14472		\$576,457	2027
	13818		\$434,339	2027
	13943		\$349,023	2027
	13919		\$351,760	2027
	29523		\$364,991	2027
	29643		\$1,272,906	2027
	40691		\$473,424	2027
	14551		\$16,642,672	2027
	14099		\$1,660,709	2027
	0		\$0	0

Total = **\$67,010,731**





**District 8-0 Bridge Unit**  
Department of Transportation

CO.                                                   All                         

S.R.                                                   SUBJECT                          TYP Update

BY:                          DRM                         

DATE:                          4/9/2023                         

SEG.                                                   OFFSET                         

CHKD. BY:                         

DATE:                         

\*\*\*SHADED CELLS ARE INPUT\*\*\*

Lancaster				
MPMS	BRKEY	Scope	BAMs Cost	LET
BAU	22129	Replacement	\$2,237,563	2033
	22164		\$655,725	2033
	21505		\$5,720,114	2033
	21715		\$1,806,830	2033
	21384		\$339,938	2033
	21681		\$4,471,222	2033
	21869		\$2,685,730	2033
	21953		\$745,885	2033
	21720		\$4,582,447	2033
	21701		\$3,926,722	2033
	22143		\$915,218	2033
	21964		\$835,318	2033
	21292		\$1,691,519	2033
	21907		\$492,565	2033
	22100		\$1,113,243	2033
	21836		\$522,074	2033
	21325		\$255,135	2033
	21912		\$1,420,223	2033
	21856		\$691,317	2033
	21685		\$588,355	2033
	21126		\$603,790	2033
	21632		\$472,136	2033
	21378		\$835,318	2033
	21647		\$229,531	2033
	21657		\$199,750	2033
	21453		\$1,265,507	2033
	21492		\$789,013	2033
	22087		\$1,716,034	2033
	21894		\$2,179,091	2033
	22015		\$431,460	2033
	21896		\$719,100	2033

York				
MPMS	BRKEY	Scope	BAMs Cost	LET
BAU	N/A	Replacement	N/A	0
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	
			0	

Total = 

\$0
-----



District 8-0 Bridge Unit  
 Department of Transportation

CO.                          All    

S.R.                          SUBJECT         TYP Update    

BY:     DRM    

DATE:     4/9/2023    

SEG.          OFFSET    

CHKD. BY:                     

DATE:                     

\*\*\*SHADED CELLS ARE INPUT\*\*\*

21885	\$878,900	2033
21818	\$2,940,865	2033
22062	\$1,453,454	2033
21834	\$626,489	2033
22054	\$815,979	2033
57570	\$637,384	2033
21210	\$372,261	2033
21470	\$1,152,376	2033
21669	\$1,753,624	2033
21987	\$545,136	2033
22116	\$654,454	2033
69104	\$578,367	2033
21289	\$737,713	2033
21708	\$263,307	2033
21862	\$648,280	2033
21811	\$588,355	2033
21515	\$259,675	2033
21759	\$3,586,421	2033
21892	\$612,688	2033
21846	\$494,654	2033
57591	\$563,840	2033
21838	\$829,961	2033
21726	\$3,997,906	2033
21155	\$4,183,855	2033
22044	\$1,593,460	2033

Total = \$75,907,275



District 8-0 Bridge Unit  
Department of Transportation

CO. \_\_\_\_\_ All \_\_\_\_\_

S.R. \_\_\_\_\_ SUBJECT \_\_\_\_\_ TYP Update \_\_\_\_\_ BY: DRM

DATE: 4/9/2023

SEG. \_\_\_\_\_ OFFSET \_\_\_\_\_ CHKD. BY: \_\_\_\_\_

DATE: \_\_\_\_\_

**\*\*\*SHADED CELLS ARE INPUT\*\*\***

#	Scope	Cost / SF
8	Department Force Culvert	



District 8-0 Bridge Unit  
Department of Transportation

CO. \_\_\_\_\_ All \_\_\_\_\_

S.R. \_\_\_\_\_ SUBJECT \_\_\_\_\_ TYP Update \_\_\_\_\_

BY: DRM

DATE: 4/9/2023

SEG. \_\_\_\_\_ OFFSET \_\_\_\_\_

CHKD. BY: \_\_\_\_\_

DATE: \_\_\_\_\_

\*\*\*SHADED CELLS ARE INPUT\*\*\*

BAMs Budget Comparison												
Title	Adams		Franklin		HATS		Lancaster		Lebanon		York	
	Funding	%	Funding	%	Funding	%	Funding	%	Funding	%	Funding	%
MFC Budget												
MFC Costs	\$0		\$0		\$0		\$0		\$0		\$0	
Delta	#REF!		#REF!		#REF!		#REF!		#REF!		#REF!	
Good / Bad?	#REF!		#REF!		#REF!		#REF!		#REF!		#REF!	

Adams				
MPMS	BRKEY	Scope	BAMs Cost	LET
BAU		Replacement		

Total =

Franklin				
MPMS	BRKEY	Scope	BAMs Cost	LET
BAU	17281	Replacement		

Total =

Lebanon				
MPMS	BRKEY	Scope	BAMs Cost	LET
BAU	N/A	Replacement		

Total =



**District 8-0 Bridge Unit**  
 Department of Transportation

CO. \_\_\_\_\_ **All** \_\_\_\_\_

S.R. \_\_\_\_\_ **SUBJECT** \_\_\_\_\_ TYP Update

BY: **DRM**

DATE: **4/9/2023**

SEG. \_\_\_\_\_ **OFFSET** \_\_\_\_\_

CHKD. BY: \_\_\_\_\_

DATE: \_\_\_\_\_

**\*\*\*SHADED CELLS ARE INPUT\*\*\***

Cumberland/Dauphin/Perry				
MPMS	BRKEY	Scope	BAMs Cost	LET
BAU		Replacement		

Total =

York				
MPMS	BRKEY	Scope	BAMs Cost	LET
BAU	N/A	Replacement	N/A	0
				0

Total =



**District 8-0 Bridge Unit**  
 Department of Transportation

CO. \_\_\_\_\_ All \_\_\_\_\_

S.R. \_\_\_\_\_ SUBJECT \_\_\_\_\_ TYP Update \_\_\_\_\_

BY: DRM

DATE: 4/9/2023

SEG. \_\_\_\_\_ OFFSET \_\_\_\_\_

CHKD. BY: \_\_\_\_\_

DATE: \_\_\_\_\_

**\*\*\*SHADED CELLS ARE INPUT\*\*\***

Lancaster				
MPMS	BRKEY	Scope	BAMs Cost	LET
BAU		Replacement		

Total =



**District 8-0 Bridge Unit**  
**Department of Transportation**

CO.                                           All                     

S.R.                                           SUBJECT                      TYP Update                      BY:                                           DRM                      DATE:                                           4/9/2023                     

SEG.                      OFFSET                                           CHKD. BY:                                           DATE:                                          

\*\*\*SHADED CELLS ARE INPUT\*\*\*

#	Scope	Cost / SF
0	None	\$0
1	Minor Repairs	\$100
2	Preservation	\$168
3	Rehab & Deck Replacement	\$320
4	Rehab & SS Replacement	\$619
5	Full Replacement	\$859
6	Culvert Replacement	\$1,690
7	Culvert Relining	\$846

Width	
0	None
1	Minor Neck Down
2	"1 Lane Bridge"

Inflation Adjusted Costs		Cost / SF
Preservation		\$168
Rehabilitation		\$550
Replacement		\$859

BAMS --> D8-0 Cost Factor	1.54
D8-0 --> BAMS Cost Factor	0.65

Inflation Data		Factor
2023 Inflation =		1.21
2024+ Inflation =		1.03
Base Year =		2023

Medium BMC Budgets												
Title	Adams		Franklin		HATS		Lancaster		Lebanon		York	
	Funding	%	Funding	%	Funding	%	Funding	%	Funding	%	Funding	%
Candidate Costs	\$477,768		\$971,895		\$4,318,327		\$6,132,971		\$1,121,422		\$5,723,565	
Med. BMC Budget	\$1,560,000		\$1,780,000		\$12,320,000		\$6,460,000		\$1,830,000		\$4,630,000	
<b>Delta</b>	<b>\$1,082,232</b>		<b>\$808,105</b>		<b>\$8,001,673</b>		<b>\$327,029</b>		<b>\$708,578</b>		<b>-\$1,093,565</b>	
<b>Good / Bad?</b>	<b>Good</b>		<b>Good</b>		<b>Good</b>		<b>Good</b>		<b>Good</b>		<b>Bad</b>	

Adams				Franklin				Cumberland				Dauphin				Perry			
MPMS	BRKEY	Risk	Cost	MPMS	BRKEY	Risk	Cost	MPMS	BRKEY	Risk	Cost	MPMS	BRKEY	Risk	Cost	MPMS	BRKEY	Risk	Cost
99751	249	1702	\$297,126	100023	17309	2802	\$161,262	90734	13816	767	\$91,158	100036	14317	9052	\$374,662	90712	29531	1168	\$28,174
99751	250	744	\$58,541	100027	17310	2797	\$180,359	99685	13721	27832	\$ 500,000	93583	14319	1432	\$ 51,000	90718	29595	878	\$69,342
99756	253	1264	\$122,102	90845	17401	1089	\$130,495	99787	13769	2598	\$176,872	99895	14384	16458	\$ 30,000	101121	29611	320	\$60,297
				100261	17547	1604	\$286,688	100035	13806	3323	\$ 150,000	90781	14462	874	\$ 200,000	-	29667	518	\$ 10,000
				100143	17608	1245	\$213,089	100044	13808	2595	\$ 200,000	100090	14474	1346	\$182,290				
								99799	13832	7407	\$ 100,000	99879	14522	2270	\$65,046				
								99800	13855	2130	\$ 50,000	100109	14526	4944	\$198,714				
								99801	13858	3903	\$178,962	100119	14575	2817	\$329,469				
								100025	13888	1498	\$62,642	19110	14576	3558	\$ 200,000				
								99692	13906	3809	\$415,716								
								-	13891	14179	\$ 500,000	100233	14592	393	\$93,983				
<b>Total =</b>			<b>\$477,768</b>	<b>Total =</b>			<b>\$971,895</b>	<b>Total =</b>			<b>\$2,425,350</b>	<b>Total =</b>			<b>\$1,725,164</b>	<b>Total =</b>			<b>\$167,813</b>



District 8-0 Bridge Unit  
Department of Transportation

CO.                     All                    

S.R.                      SUBJECT                      TYP Update                      BY:           DRM          

DATE:           4/9/2023          

SEG.            OFFSET                      CHKD. BY:                     

DATE:                     

**\*\*\*SHADED CELLS ARE INPUT\*\*\***





**District 8-0 Bridge Unit**  
**Department of Transportation**

CO.                     All                    

S.R.                     SUBJECT                     TYP Update **BY:           DRM**

DATE:           4/9/2023          

SEG.           OFFSET                     **CHKD. BY:**

DATE:                     

**\*\*\*SHADED CELLS ARE INPUT\*\*\***

Lancaster				Lebanon				York			
MPMS	BRKEY	Risk	Cost	MPMS	BRKEY	Risk	Cost	MPMS	BRKEY	Risk	Cost
101282	20982	8796	\$ 300,000	117412	22613	3232	\$99,033	117716	37808	394	\$87,399
97263	21160	7557	\$376,020	100337	22604	4191	\$517,768	117666	37849	348	\$253,321
97263	21161	6909	\$314,216	90340	22614	3441	\$117,245	117676	37875	6277	\$472,023
101106	21229	11447	\$ 200,000	100291	22675	2730	\$157,577	21169	37838	538	\$258,797
101132	21322	13687	\$ 250,000	100327	22814	5257	\$229,799	100215	37944	5036	\$ 200,000
101135	21327	8214	\$949,681					73962	37349	45626	\$ 100,000
101141	21361	4063	\$304,166					100038	37352	2211	\$116,494
101271	21583	2240	\$213,187					100180	37490	2211	\$345,704
101069	21612	437	\$208,445					91354	37549	1149	\$ 400,000
101275	21633	839	\$68,571					81040	37626	2991	\$ 250,000
101127	21649	1417	\$539,878					100075	37650	992	\$120,345
101130	21659	1018	\$253,678					100159	37652	4834	\$1,080,640
101296	21691	7181	\$1,317,660					100164	37723	820	\$65,367
101264	21726	7346	\$737,469					100091	37776	449	\$208,431
-	21278	16992	\$ 100,000					97195	37828	4023	\$254,941
								87599	37832	2226	\$315,544
								100209	37852	6443	\$174,639
								91368	37887	935	\$77,187
								91369	37888	1090	\$58,914
								91373	37928	6698	\$123,254
								100139	37973	5900	\$760,565
<b>Total =</b>			<b>\$6,132,971</b>	<b>Total =</b>			<b>\$1,121,422</b>	<b>Total =</b>			<b>\$5,723,565</b>

CD: AB  
SR: 01/01/21 11/1/2021 BY: DDM DATE: 4/2/2021  
SEC: 00/00/01 CD: 00/00/01 DATE:

**\*\*\*SHARED CELLS ARE FPLT\*\*\***

#	Scope	Cont'd	Unit	Volume Adjusted Cost	Cont'd
1	Scope	0	0	0	0
1	Minor Repairs	2,000	1	2,000	2,000
1	Inspection	2,000	1	2,000	2,000
1	Retain & Deck Replacement	2,000	1	2,000	2,000
1	Retain & Deck Replacement	2,000	1	2,000	2,000
1	Full Replacement	2,000	1	2,000	2,000
1	Column Replacement	2,000	1	2,000	2,000
1	Column Retaining	2,000	1	2,000	2,000

#	Scope	Quantity Unit				Cost Breakdown								
		P1	P2	R/W	U/T/L	Subtotal	P1	P2	R/W	U/T/L	Subtotal			
1	Scope	1	1	0	0	1	0	0	0	1	0	0	0	1
1	Minor Repairs	1	1	0	0	1	0	0	0	1	0	0	0	1
1	Inspection	1	1	0	0	1	0	0	0	1	0	0	0	1
1	Retain & Deck Replacement	1	1	0	0	1	0	0	0	1	0	0	0	1
1	Retain & Deck Replacement	1	1	0	0	1	0	0	0	1	0	0	0	1
1	Full Replacement	1	1	0	0	1	0	0	0	1	0	0	0	1
1	Column Replacement	1	1	0	0	1	0	0	0	1	0	0	0	1
1	Column Retaining	1	1	0	0	1	0	0	0	1	0	0	0	1

**CHANGING CELLS ARE HIGHLIGHTED**

Scenario	Title	Admits	Funding	Cost	Funding %	Cost %	Priority	Location	Lebanon	York
1	MPO Budget	548,000,544	548,000,544	548,000,544	100%	100%	1		548,000,544	0
1	Lebanon	129,335,638	129,335,638	129,335,638	100%	100%	1		129,335,638	0
1	YORK	418,664,906	418,664,906	418,664,906	100%	100%	1		0	418,664,906

Scenario	Title	Admits	Funding	Cost	Funding %	Cost %	Priority	Location	Lebanon	York
1	MPO Budget	548,000,544	548,000,544	548,000,544	100%	100%	1		548,000,544	0
1	Lebanon	129,335,638	129,335,638	129,335,638	100%	100%	1		129,335,638	0
1	YORK	418,664,906	418,664,906	418,664,906	100%	100%	1		0	418,664,906

Admits	Scenario	Code	Year	Start	End	MPO District	Category	Priority	Location	Lebanon	York	Cost
1	18191	001	2024	2024	2024	1	Lebanon	1	Lebanon	0	0	0
1	18191	001	2024	2024	2024	1	Lebanon	1	Lebanon	0	0	0
1	18191	001	2024	2024	2024	1	Lebanon	1	Lebanon	0	0	0
1	18191	001	2024	2024	2024	1	Lebanon	1	Lebanon	0	0	0

Scenario	Year	Lebanon	York	Preservation	Rehab	Employment
1	2024	0	0	0	0	0
1	2025	0	0	0	0	0
1	2026	0	0	0	0	0
1	2027	0	0	0	0	0
1	2028	0	0	0	0	0
1	2029	0	0	0	0	0
1	2030	0	0	0	0	0
1	2031	0	0	0	0	0
1	2032	0	0	0	0	0
1	2033	0	0	0	0	0
1	2034	0	0	0	0	0

**District 8.0 Bridge Unit**  
 Department of Transportation

CID: AB COUNTY: DEWITT DISTRICT: 8.0 DATE: 4/2/2023  
 SEQ: OFFSET CHRD: 81 DATE:

**\*\*\*SHARED CELLS ARE APPLICABLE\*\*\***

Year	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Local Project Cost																				
Existing TYP Project Cost																				
Existing Major Project Cost																				
Proposed Project Cost																				
Proposed Project Cost																				
Minor Structures																				
Total Cost																				
In Budget within Forecast																				
Total Price Cost Const																				
BAMA Price Const Const																				

Year	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Local Project Cost																				
Existing TYP Project Cost																				
Existing Major Project Cost																				
Proposed Project Cost																				
Proposed Project Cost																				
Minor Structures																				
Total Cost																				
In Budget within Forecast																				
Total Price Const Const																				
BAMA Price Const Const																				

Local Project Cost = \$1,430,000  
 Existing TYP Project Cost = \$3,600,000  
 Existing Major Project Cost = \$0 (Enclosed Projects)  
 Proposed Project Cost = \$3,320,000 (Life & Modern Programmatic Provisions)  
 Proposed Project Cost = \$30,000,000 (New Program Assets)  
 Minor Structures = \$0  
 Total Cost = \$5,380,000  
 In Budget within Forecast = \$5,380,000 (Within IM)







**District 8.0 Bridge Unit**  
**Department of Transportation**

CO:   88   DATE:   6/9/2023    
 SR:   01000000   VVV (pages) BY:   DMM   DATE:   6/9/2023    
 SEC:   000000   CHECK: BY:    DATE:   

***REQUIRED CELLS ARE EMPTY***			
1350,176,002	1353,871,384	1353,808,678	1344,060,762
Total Price Const. Const.		1348,198,832	Total Const. = 1328,197,768
BAAAs Price Const. Const.		1352,136,028	Total Budget = 1325,214,215
			Is Budget within Tolerance? Yes (within 1%)











District 8.0 Bridge Units  
Department of Transportation

CD: AB  
SR: ST/BLT YTD Dates: BY: RDM DATE: 4/9/2021  
SLC: OBTST CHRD: 83: DATE:

**\*\*SHARED CELLS ARE EXP'T\*\***

2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
\$1,139,385.12	\$1,114,571,475.6	\$158,434,811.2	0	\$3,228,880.0	\$5,768,935.0	0	0	0	0	0	0	0	0	0	0
39%	44%	18%													

2027	2028	2029	2030
\$5,498,413.0	\$7,730,213.1	\$7,452,413.0	\$3,081,699.0
2031	2032	2033	2034
\$4,047,211.0	\$4,292,699.0	\$3,137,319.0	\$2,781,381.0
Total Price Cost Costs = \$17,469,724.0			
BAMA Price Cost Costs = \$5,117,536.0			

Local Project Cost = \$4,119,438.0 (27%)  
Existing ITP Project Cost = \$5,768,935.0  
Existing Other Project Cost = \$0.0 (Acquired Projects)  
Existing ITP Project Cost = \$5,768,935.0 (Light & Medium Programmatic Preservations)  
Proposed Project Cost = \$3,885,000.0 (Over Project Admit)  
Misc. Structures = \$49,206.0  
Total Revised Cost = \$6,403,141.0  
In Budget within 100% (Within 1M)

2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
\$189,771,413.0																	
\$189,771,413.0																	













CO. Cumberland (21)  
S.R. SUBJECT TIP Analysis BY: RRS DATE: 2/22/2023  
SEC. OFFSET CHKD. BY: DATE:

\*\*\*SHADED CELLS ARE INPUT\*\*\*


BAU Candidates

Sort Superstructure CR to less than 4.5

BRKEY	Super CR	DA (SF)	Scope	LET	SYR	Proposed	
						Cost	BAMS Cost
14644	0.00	1712.00	S	2027	859	\$2,002,771	\$1,301,801
14693	0.00	2704.80	S	2027	859	\$1,164,190	\$2,056,724
14664	0.25	3444.40	S	2027	859	\$4,029,406	\$2,619,114
14648	0.57	2144.00	S	2027	859	\$2,628,143	\$1,630,293
29753	0.58	414.00	S	2027	859	\$484,315	\$314,805
14750	0.81	2671.20	S	2027	859	\$3,124,884	\$2,031,174
14560	1.38	1111.10	S	2027	859	\$1,320,982	\$863,618
29635	1.82	1716.00	S	2027	859	\$2,007,450	\$1,304,842
29726	2.03	461.10	S	2027	859	\$539,414	\$350,619
14645	2.08	544.00	S	2027	859	\$636,394	\$413,656
14739	2.17	4432.60	S	2027	859	\$5,185,444	\$3,370,539
14724	2.25	2170.80	S	2027	859	\$2,539,494	\$1,650,671
14737	2.46	722.10	S	2027	859	\$844,743	\$549,083
14558	2.49	30670.50	S	2027	859	\$35,879,658	\$23,321,777
14631	2.50	1846.00	S	2027	859	\$2,150,529	\$1,403,694
29622	2.54	2262.00	S	2027	859	\$2,646,184	\$1,720,620
14472	2.96	798.10	S	2027	859	\$886,958	\$574,417
13818	3.12	571.20	S	2027	859	\$668,214	\$434,319
13943	3.15	459.00	S	2027	859	\$536,958	\$349,023
13919	3.16	462.60	S	2027	859	\$541,169	\$351,760
29523	3.47	480.00	S	2027	859	\$561,524	\$364,991
29643	3.55	1674.00	S	2027	859	\$1,958,317	\$1,272,906
40691	3.57	622.50	S	2027	859	\$738,344	\$473,424
14551	4.13	1186.80	S	2027	859	\$25,604,111	\$16,442,672
14099	3.66	2184.00	S	2027	859	\$2,554,936	\$1,660,709

14101	3.62	800.00	S	2027	859	\$935,874	\$608,318
29431	4.19	4136.00	S	2027	859	\$4,838,469	\$3,145,005
14091	3.67	991.50	S	2027	859	\$1,162,356	\$753,511
13584	4.19	#####	S	2027	859	\$21,374,194	\$13,893,226
29713	4.25	1411.20	S	2027	859	\$1,650,882	\$1,073,073
29711	4.26	855.60	S	2027	859	\$1,000,917	\$660,506
13912	4.27	342.00	S	2027	859	\$400,086	\$260,056
29633	4.33	32787.20	S	2027	859	\$14,959,011	\$9,723,357
14683	4.35	1481.20	S	2027	859	\$1,735,111	\$1,127,822
14632	4.37	1845.00	S	2027	859	\$2,158,360	\$1,402,534
14191	4.37	787.20	S	2027	859	\$920,900	\$598,585
14387	4.37	3962.70	S	2027	859	\$4,635,735	\$3,013,228
14306	4.38	4213.60	S	2027	859	\$4,925,646	\$3,193,220
13759	4.38	5291.00	S	2027	859	\$6,189,637	\$4,023,264
29717	4.41	350.00	S	2027	859	\$409,445	\$266,139
14566	4.42	1952.00	S	2027	859	\$5,162,207	\$3,355,435
13669	4.42	8700.00	S	2027	859	\$10,177,631	\$6,615,460
29789	4.43	522.00	S	2027	859	\$610,658	\$396,928
14697	4.44	2022.60	S	2027	859	\$2,242,717	\$1,523,772
14344	4.45	4195.80	S	2027	859	\$4,908,426	\$3,190,477
29737	4.46	1288.00	S	2027	859	\$1,518,456	\$986,996
14634	4.47	1845.00	S	2027	859	\$2,158,360	\$1,402,534
14651	4.47	1809.00	S	2027	859	\$2,116,245	\$1,375,659
13889	4.49	#####	S	2027	859	\$22,648,153	\$14,721,299
14529	2.94	#####	S	2027	859	\$90,366,354	\$59,063,130
29748	3.84	721.00	S	2027	859	\$841,457	\$548,247
13941	3.87	395.60	S	2027	859	\$462,790	\$300,813
14655	3.91	501.80	S	2027	859	\$587,027	\$381,568
29679	4.01	310.00	S	2027	859	\$386,048	\$250,911
14736	4.01	468.00	S	2027	859	\$547,486	\$355,866
29714	4.06	1756.80	S	2027	859	\$2,055,179	\$1,335,867
29752	4.07	771.80	S	2027	859	\$920,385	\$586,874
13655	4.42	5382.00	S	2027	859	\$6,296,093	\$4,092,460
13653	4.41	6051.50	S	2027	859	\$7,079,303	\$4,601,547
13679	4.09	1883.50	S	2027	859	\$1,969,430	\$1,280,130



 District 8-0 Bridge Unit  
Department of Transportation

CO. Dauphin (2)  
 S.R. \_\_\_\_\_ SUBJECT \_\_\_\_\_ TIP Analysis BY: RBS DATE: 2/23/2023  
 SEG. \_\_\_\_\_ OFFSET \_\_\_\_\_ CHKD. BY: \_\_\_\_\_ DATE: \_\_\_\_\_

***SHADED CELLS ARE INPUTS***												
MPMS	BRKLY	B/C/A/S	ADT	Detour	Risk	LA (ft)	Width	Cost \$	Scope	LET	PM	Notes
105643	14670	B	75	4	237	754	2	5652,386	Replacement		2025	
117667	14734	A	8000	2	3850	4278	0	\$3,850,000	Replacement		2030	
117665	14746	B	7500	2	7345	7354	0	56,500,000	Replacement		2030	





District 8-0 Bridge Unit  
Department of Transportation

CO: Lancaster (36)  
S.R. SUBJECT: TIP Analysis BY: RRS DATE: 2/15/2023  
SEC. OFFSET: CHKD. BY: DATE:

\*\*\*SHADDED CELLS ARE FUNNED\*\*\*

#	Scope	Cost (\$)	Cost (\$)	Cost (\$)
1	Minor Repairs	5200	0	5200
2	Preservation	5248	0	5248
3	Rehab & Deck Replacement	5230	0	5230
4	Rehab & SS Replacement	5219	0	5219
5	Full Replacement	5259	0	5259
6	Calvert Replacement	5149	0	5149
7	Calvert Redding	5246	0	5246

Item	Sub-Item	Quantity	Unit	Cost (\$)
1	Minor Repairs	0	sq yd	52.00
	Preservation	0	sq yd	52.48
2	Rehab & Deck Replacement	1	sq yd	5230
	Rehab & SS Replacement	1	sq yd	5219
3	Full Replacement	0	sq yd	5259
	Calvert Replacement	0	sq yd	5149
7	Calvert Redding	0	sq yd	5246

Inflation Adjusted Costs	
Year	Cost (\$)
2023	5200
2024	5200
2025	5200

M/MS	BR/RT	B/C/A/S	AST	Detour	Risk	DA (SF)	Width	Status			Scope	Estimate	BAMS Cost	Proposed		Savings-Base	Savings-Adj.	County	PM	Notes
								Start	Est. Only \$	Cost				Save %	Scope					
105531	20981	#	10822	#	10005	10562	0	\$2,046,286	Replacement	2023	2023	100	0	0	0	0	Lancaster	Rehab		
79020	20997	#	52070	#	348020	489552	0	\$5,630,000	Rehabilitation	2023	2023	100	0	0	0	0	Lancaster	Rehab		
87531	21039	#	59338	#	5609	10095	0	\$1,182,000	Replacement	2023	2023	100	0	0	0	0	Lancaster	Rehab		
87500	21044	#	15870	#	5133	728	0	\$1,912,903	Replacement	2023	2023	100	0	0	0	0	Lancaster	Rehab		
97013	21078	#	28866	#	52079	8200	0	\$1,100,000	Replacement	2023	2023	100	0	0	0	0	Lancaster	Rehab		

Major																				
M/MS	BR/RT	B/C/A/S	AST	Detour	Risk	DA (SF)	Width	Status			Scope	Estimate	BAMS Cost	Proposed		Savings-Base	Savings-Adj.	County	PM	Notes
								Start	Est. Only \$	Cost				Save %	Scope					
105531	20981	#	10822	#	10005	10562	0	\$2,046,286	Replacement	2023	2023	100	0	0	0	0	Lancaster	Rehab		
79020	20997	#	52070	#	348020	489552	0	\$5,630,000	Rehabilitation	2023	2023	100	0	0	0	0	Lancaster	Rehab		
87531	21039	#	59338	#	5609	10095	0	\$1,182,000	Replacement	2023	2023	100	0	0	0	0	Lancaster	Rehab		
87500	21044	#	15870	#	5133	728	0	\$1,912,903	Replacement	2023	2023	100	0	0	0	0	Lancaster	Rehab		

Redundant & Fund																				
M/MS	BR/RT	B/C/A/S	AST	Detour	Risk	DA (SF)	Width	Status			Scope	Estimate	BAMS Cost	Proposed		Savings-Base	Savings-Adj.	County	PM	Notes
								Start	Est. Only \$	Cost				Save %	Scope					
105531	20981	#	10822	#	10005	10562	0	\$2,046,286	Replacement	2023	2023	100	0	0	0	0	Lancaster	Rehab		
79020	20997	#	52070	#	348020	489552	0	\$5,630,000	Rehabilitation	2023	2023	100	0	0	0	0	Lancaster	Rehab		
87531	21039	#	59338	#	5609	10095	0	\$1,182,000	Replacement	2023	2023	100	0	0	0	0	Lancaster	Rehab		
87500	21044	#	15870	#	5133	728	0	\$1,912,903	Replacement	2023	2023	100	0	0	0	0	Lancaster	Rehab		

M/MS	BR/RT	B/C/A/S	AST	Detour	Risk	DA (SF)	Width	Status			Scope	Estimate	BAMS Cost	Proposed		Savings-Base	Savings-Adj.	County	PM	Notes
								Start	Est. Only \$	Cost				Save %	Scope					
105531	20981	#	10822	#	10005	10562	0	\$2,046,286	Replacement	2023	2023	100	0	0	0	0	Lancaster	Rehab		
79020	20997	#	52070	#	348020	489552	0	\$5,630,000	Rehabilitation	2023	2023	100	0	0	0	0	Lancaster	Rehab		
87531	21039	#	59338	#	5609	10095	0	\$1,182,000	Replacement	2023	2023	100	0	0	0	0	Lancaster	Rehab		
87500	21044	#	15870	#	5133	728	0	\$1,912,903	Replacement	2023	2023	100	0	0	0	0	Lancaster	Rehab		

New adds from BAMS																				
M/MS	BR/RT	B/C/A/S	AST	Detour	Risk	DA (SF)	Width	Status			Scope	Estimate	BAMS Cost	Proposed		Savings-Base	Savings-Adj.	County	PM	Notes
								Start	Est. Only \$	Cost				Save %	Scope					
2129	2129	#	2129	#	2129	2129	0	\$15,000,000	Replacement	2023	2023	100	0	0	0	0	Lancaster	Rehab		
2130	2130	#	2130	#	2130	2130	0	\$15,000,000	Replacement	2023	2023	100	0	0	0	0	Lancaster	Rehab		
2131	2131	#	2131	#	2131	2131	0	\$15,000,000	Replacement	2023	2023	100	0	0	0	0	Lancaster	Rehab		
2132	2132	#	2132	#	2132	2132	0	\$15,000,000	Replacement	2023	2023	100	0	0	0	0	Lancaster	Rehab		

District 8-0 Bridge Unit  
Department of Transportation

CO Lancaster (36)  
S.R. SUBJECT TIP Analysis BY: RRS DATE: 2/15/2023  
SEG OFFSET CHKD BY: DATE:

\*\*\*SHADED CELLS ARE INPUT\*\*\*

21012	7,471
21020	9,353
21021	9,509
21027	10,820
21112	9,526
21113	9,741
21147	32,660
21171	3,368
21661	14,271
21698	10,608
21700	28,294
21728	9,573
22217	12,146
22227	12,120
21250	9,675
21171	5,368
21274	4,840
21291	8,800
21675	6,012
21683	4,544
21229	813
21220	3,047
21020	1,968
21759	3,950
21134	486
21065	990
21681	4,525
21026	977
21236	990
21291	447
21274	792
21274	1,863
21274	946

1	2032	100	\$1
1	2027	100	\$1,273,726
1	2027	100	\$1,303,310
1	2027	100	\$1,474,593
1	2027	100	\$1,297,313
1	2027	100	\$1,136,798
1	2027	100	\$300,000
1	2020	100	\$709,757
1	2028	100	\$2,003,824
1	2030	100	\$1,578,627
1	2030	100	\$4,000,000
1	2027	100	\$1,123,666
1	2027	100	\$1,654,095
1	2027	100	\$909,648
1	2028	100	\$160,000
1	2028	100	\$75,000
1	2028	100	\$5,000
2	2028	168	\$2,073,784
2	2028	168	\$1,416,771
6	2030	1690	\$3,908,362
4	2030	619	\$748,445
4	2027	619	\$4,254,595
4	2027	619	\$1,650,014
4	2029	619	\$3,532,616
6	2029	1690	\$1,063,388
6	2029	1690	\$1,485,730
4	2029	619	\$4,404,144
4	2029	619	\$873,942
4	2028	619	\$809,602
4	2028	619	\$1,404,144
1	2028	100	\$25,990
6	2028	1690	\$1,677,515
5	2030	859	\$2,381,508
1	2028	100	\$50,000

Medium BMC
Paint & joints
Paint & joints
LMC & Ap Slab (new deck 2008)
Paint & joints
Paint & joints
Medium BMC
Header needs rebuilt
Overlay
fill paint & glands
Epoxy overlay and patching
Overlay
Overlay
Overlay
Medium BMC
Medium BMC (glands)
Medium BMC (glands)
Pier Cap encasement zone paint
-
-
-
-
-
-
-
-
-
-
-
-
Medium BMC (shotcrete)
-
-
Medium BMC (shotcrete)

BAU Candidates

Sort Superstructure CR to less than 4.5

BRKEY	Super CR	DA (SF)	Scope	LET	S/F	Proposed		BAMS Cost
						Cost	CR	
22129	0.00	2464.40	S	2033	859	\$1,442,405	\$2,237,563	
22164	0.00	1722.20	S	2033	859	\$1,609,807	\$65,725	
21595	1.04	6300.00	S	2033	859	\$8,800,175	\$5,720,114	
21715	1.12	1390.00	S	2033	859	\$2,779,738	\$1,806,830	
21884	2.28	1746.40	S	2033	859	\$2,921,962	\$393,958	
21681	2.37	4924.50	S	2033	859	\$6,878,804	\$4,471,232	
21089	2.45	2058.00	S	2033	859	\$4,111,890	\$2,485,730	
21053	2.86	821.50	S	2033	859	\$1,147,535	\$745,465	
21720	3.02	5047.00	S	2033	859	\$7,049,918	\$4,582,447	
21701	3.07	6124.80	S	2033	859	\$6,041,111	\$3,506,723	
22141	3.08	1008.00	S	2033	859	\$1,408,028	\$915,218	
21964	3.10	920.00	S	2033	859	\$1,285,105	\$835,318	
21282	3.10	1880.00	S	2033	859	\$3,403,139	\$1,451,819	
21907	3.12	542.50	S	2033	859	\$757,793	\$492,565	
22190	3.30	1226.10	S	2033	859	\$1,712,682	\$1,113,243	
21886	3.32	1378.40	S	2033	859	\$803,191	\$522,074	
21235	3.34	281.00	S	2033	859	\$392,516	\$265,135	
21912	3.34	1554.00	S	2033	859	\$2,184,958	\$1,420,273	
21896	3.37	701.40	S	2033	859	\$1,050,564	\$651,317	
21685	3.42	648.00	S	2033	859	\$905,161	\$588,355	
21126	3.43	665.00	S	2033	859	\$928,907	\$603,790	
21642	3.43	520.00	S	2033	859	\$729,364	\$471,134	
21378	3.50	920.00	S	2033	859	\$1,285,105	\$835,318	
21647	3.56	252.80	S	2033	859	\$353,125	\$229,531	
21607	3.56	1200.00	S	2033	859	\$397,308	\$399,750	
21483	3.57	1393.80	S	2033	859	\$1,946,934	\$1,265,507	
21482	3.62	869.60	S	2033	859	\$1,213,868	\$789,013	
22087	3.62	1890.00	S	2033	859	\$3,440,051	\$1,716,034	
21894	3.64	2400.00	S	2033	859	\$1,352,448	\$2,179,091	
22035	3.65	475.20	S	2033	859	\$661,789	\$431,460	
21896	3.74	792.00	S	2033	859	\$1,106,308	\$719,100	
21885	3.75	968.00	S	2033	859	\$1,352,154	\$878,900	
21838	3.79	1239.00	S	2033	859	\$1,524,408	\$1,840,868	
22062	3.80	1600.80	S	2033	859	\$2,236,083	\$1,453,454	
21834	3.83	690.00	S	2033	859	\$961,829	\$626,489	
22054	3.83	698.70	S	2033	859	\$1,235,352	\$815,979	
57570	3.85	702.00	S	2033	859	\$880,591	\$637,384	
21210	3.86	410.00	S	2033	859	\$572,710	\$372,261	
21470	3.87	1269.00	S	2033	859	\$1,712,886	\$1,153,378	
21669	3.88	1931.40	S	2033	859	\$2,697,882	\$1,753,624	
21987	3.90	600.40	S	2033	859	\$838,671	\$545,136	
22116	3.92	720.80	S	2033	859	\$1,006,852	\$654,454	
69104	3.93	637.00	S	2033	859	\$889,796	\$578,367	
21289	3.97	812.50	S	2033	859	\$1,134,943	\$727,713	
21538	3.98	1200.00	S	2033	859	\$405,087	\$403,307	
21882	3.98	714.00	S	2033	859	\$997,353	\$648,280	
21811	3.99	648.00	S	2033	859	\$905,161	\$588,355	
21515	4.00	286.00	S	2033	859	\$399,500	\$259,675	
21799	4.05	1990.00	S	2033	859	\$5,517,570	\$3,586,421	
21882	4.06	1074.80	S	2033	859	\$942,597	\$613,688	
21846	4.07	544.80	S	2033	859	\$765,006	\$484,654	
57591	4.24	621.00	S	2033	859	\$867,446	\$563,840	
21858	4.26	1044.00	S	2033	859	\$1,276,964	\$829,961	
21726	4.31	4403.20	S	2033	859	\$6,150,624	\$3,997,906	
21155	4.50	4608.00	S	2033	859	\$6,436,700	\$4,183,855	
22044	4.54	1755.00	S	2033	859	\$3,453,477	\$1,528,469	
21087	4.51	882.20	S	2033	859	\$533,677	\$367,020	
22089	4.51	2299.50	S	2033	859	\$3,232,054	\$2,087,842	
21628	4.65	812.00	S	2033	859	\$413,818	\$281,282	
21737	4.46	959.40	S	2033	859	\$1,361,141	\$871,092	
21301	4.46	8800.00	S	2033	859	\$12,292,309	\$7,990,001	
21675	4.49	6012.00	S	2033	859	\$8,397,882	\$5,458,623	
21111	4.23	9000.00	S	2033	859	\$20,018,701	\$13,531,156	







CO. York (66)  
S.R.            SUBJECT            TIP Analysis BY: RRS DATE: 2/15/2023  
SEC.            OFFSET            CHKD. BY:            DATE:           

**\*\*\*SHADED CELLS ARE INPUT\*\*\***

MPMS	BRKEY	B/C/A/S	ADT	Detour	Risk	DA (SF)	Width	Const S	Scope	LET	PM	Notes											
91372	37901	C	7558	4	2052	558	0	\$300,000	Replacement	2034	\$802,827	\$521,838	90%	7	2033	TIP	1690	\$1,533,481	\$996,763	\$-1,233,481	\$-730,654	York	
100133	37907	C	1241	6	771	480	0	\$500,000	Preservation	2034	\$135,666	\$87,793	80%	2	2033	TIP	168	\$11,132	\$85,236	\$368,868	\$3,334	York	
400436	37900	#	4656	0	2574	4000	0	\$400,000	Preservation	2034	\$4436,844	\$733,070	100%	0	2034	TIP	0	\$0	\$400,000	\$4,436,844		York	Pave Streambed
91373	37928	B	4496	10	6698	493	0	\$250,000	Replacement	2034	\$709,308	\$461,050	100%	2	2030	TIP	168	\$123,254	\$0	\$126,746	\$586,054	York	Medium BMC; Move UP
78896	37955	B	3037	8	3990	544	2	\$4,600,000	Replacement	2034	\$480,685	\$608,745	100%	0	2034	TIP	0	\$0	\$4,600,000	\$788,686	York		
100137	37955	B	764	1	362	377	2	\$50,000	Preservation	2034	\$49,806	\$21,374	0%	6	2033	TIP	1690	\$978,854	\$632,355	\$922,854	\$-923,048	York	
100217	37968	B	4138	10	2880	882	0	\$750,000	Replacement	2034	\$4,284,034	\$833,357	100%	0	2034	TIP	0	\$0	\$750,000	\$4,284,034	York		
100139	37973	B	5558	6	5900	2784	0	\$250,000	Preservation	2034	\$783,382	\$509,198	90%	2	2033	TIP	168	\$760,565	\$494,367	\$510,565	\$22,817	York	Medium BMC; Latex/PPC
400445	28024	#	4084	2	4020	990	2	\$190,000	Preservation	2034	\$270,432	\$476,586	100%	0	2034	TIP	0	\$0	\$0	\$490,000	\$270,432	York	Consider replacement beyond TYP

**Local Bridges - Can't change**

MPMS	BRKEY	B/C/A/S	ADT	Detour	Risk	DA (SF)	Width	Const S	Scope	LET	PM	Notes

**New adds from BAMS**

MPMS	BRKEY	B/C/A/S	ADT	Detour	Risk	DA (SF)	Width	Const S	Scope	LET	PM	Notes
37374			26,182							1	2031	LMC in 2002
37368			19,480							1	2029	Study
40605			25,054							1	2029	Study (combine w/ 37368)
37367			19,720							1	2029	Study (combine w/ 37368)
37807			16,920							1	2034	Paint, glands, overlay
43566			14,255							1	2027	structural overlay
37509			19,326							1	2027	joints, overlay
37564			8,405							1	2027	zone paint, glands
37677			7,715							1	2027	pier cap encasement
37574			627							6	2030	
37664			14,742							1	2029	Abutment face repairs
37376			4,287							1	2032	Medium BMC (Zone Pt)
37382			7,318							1	2030	Paint
37387			6,813							1	2028	Open Street
37499			7,728							2	2030	Pier encasement, js, overlay
37511			13,981							1	2023	Hydro latex, js
37512			6,616							1	2024	Hydro latex, js
37513			11,150							1	2024	Hydro latex, js
37513			270							6	2030	
37414			13,377							1	2030	overlay
37511			308							7	2028	
37648			7,584							1	2030	Rehab in 2009
37655			2,070							1	2024	Medium BMC
37690			252							6	2029	
37881			6,342							3	2032	
37910			408							7	2028	
37919			12,775							3	2030	
37964			480							6	2030	
37996			293							7	2028	