

ROADWAY

ITEM 201 - CLEARING AND GRUBBING

This item is paid for Lump Sum.

ITEM 202 - PAVEMENT REMOVED Note: Existing section is 9" reinforced concrete pavement

Station 27+30.00 28+53.90	to to to	Station 27+54.35 28+80.00		Length (ft) 24.35 26.10	x (x (Width 1 (ft) 28.00 28.00	+ +	Width 2 (ft 28.00 28.00	:)) / 2) / 2	=	Area (sf) 681.80 730.80	/	9 9	= =	75.76 81.20	SY SY
Total:															156.96	SY
Total for	Genera	al:												Say:	157	_SY
Total for ITE	M 202	- PAVEMEN	IT REMOVED:												157	_SY

ITEM 202 - WALK REMOVED

		CAD					
	Number	Area (s	f)				
Left Rear Sidewalk:	1	x 280.0) (1	=	280.00	SF
Right Rear Sidewalk:	1	x 244.0) (1	=	244.00	SF
Left Forward Sidewalk:	1	x 240.0) (1	=	240.00	SF
Right Forward Sidewalk:	1	x 312.0) (1	=	312.00	SF
Total:						1076.00	SF
Total for General:					Say:	1076	_SF
Total for ITEM 202 - WALK REMOVED:						1076	SF

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ITEM 202 - CURB REMOVED

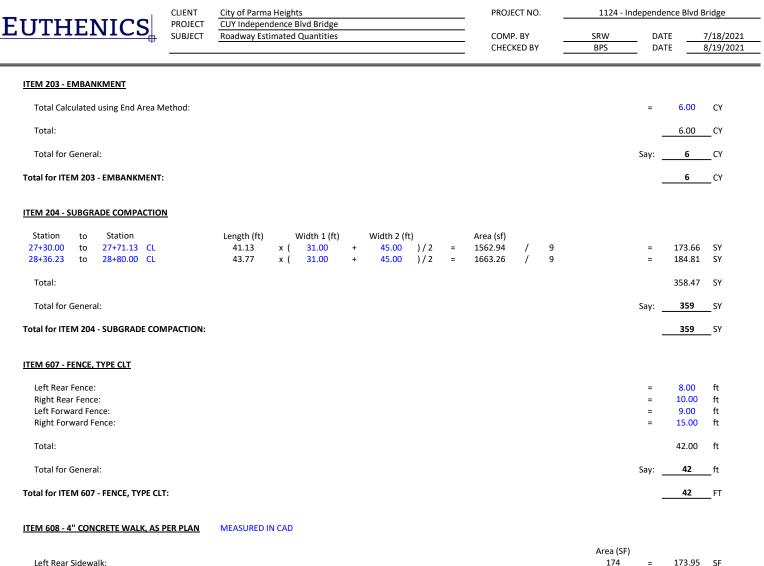
Station	to	Station		Number		Length (ft)			
27+30.00	to	27+86.32	LT	1	х	56.32	=	56.32	FT
27+30.00	to	27+76.83	RT	1	х	46.83	=	46.83	FT
28+30.42	to	28+80.00	LT	1	х	49.58	=	49.58	FT
28+20.88	to	28+80.00	RT	1	х	59.12	=	59.12	FT
Total:								211.85	FT
Total for 0	Genera	al:					Say:	212	FT
Total for ITE	M 202	- CURB REN	OVED:					212	_FT

ITEM 202 - FENCED REMOVED

Total for ITEM 202 - FENCED REMOVED:		64	FT
Total for General:	Say:	64	FT
Total:		64.00	FT
Right Forward Fence:	=	22.00	FT
Left Forward Fence:	=	14.00	FT
Right Rear Fence:	=	14.00	FT
Left Rear Fence:	=	14.00	FT

ITEM 203 - EXCAVATION

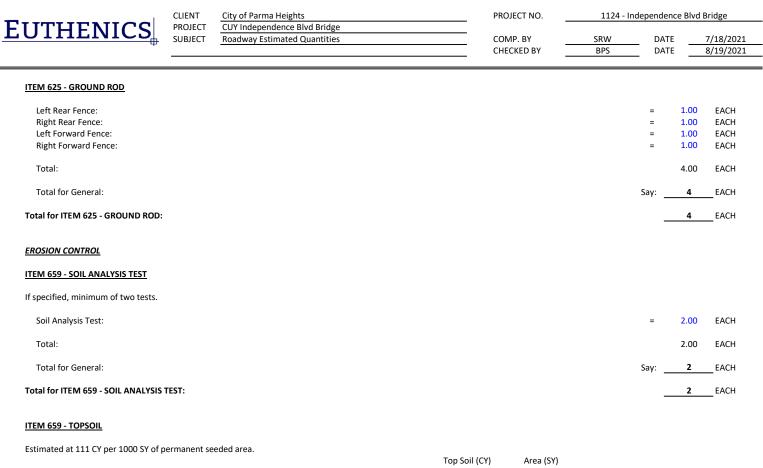
Total Calculated using End Area Method:	=	120.00	CY
Total:		120.00	CY
Total for General:	Say:	120	CY
Total for ITEM 203 - EXCAVATION:		120	_CY



Total for ITEM 608 - 4" CONCRETE WALK, AS PER PLAN:			631	SF	
Total for General:		Say:	631	_SF	
Total:			630.96	SF	
Right Forward Sidewalk:	85	=	195.87	SF	
Left Forward Sidewalk:	136	=	136.48	SF	
Right Rear Sidewalk:	125	=	124.66	SF	
Left Rear Sidewalk:	174	=	173.95	SF	

ITEM 609 - CURB, TYPE 6

Station	to	Station		Number		Length (ft)			
27+30.00	to	27+60.00	LT	1	х	30.00	=	30.00	ft
27+30.00	to	27+52.00	RT	1	х	22.00	=	22.00	ft
28+55.00	to	28+80.00	LT	1	х	25.00	=	25.00	ft
28+47.33	to	28+80.00	RT	1	х	32.67	=	32.67	ft
Total:								109.67	ft
Total for (Genera	al:					Say:	110	ft
Total for ITE	M 609	- CURB, TYP	E 6:					110	ft



Top Soil:	111	x	171	/	1000	=	18.98	CY
Total:							18.98	CY
Total for General:						Say:	19	_CY
Total for ITEM 659 - TOPSOIL:							19	CY
ITEM 659 - SEEDING AND MULCHING								
Total Calculated using End Area Method:						=	171.00	SY

Total:		171.00	SY
Total for General:	Say:	171	SY
Total for ITEM 659 - SEEDING AND MULCHING:		171	SY

ITEM 659 - REPAIR SEEDING AND MULCHING

Estimated at 5% of the permanent seeding and mulching area.

Repair Seeding and Mulching:	Area (SY) 171	x	Rate 0.05	=	8.55	SY
Total:					8.55	SY
Total for General:				Say:	9	_SY
Total for ITEM 659 - REPAIR SEEDING AND MULCHING:				_	9	_SY



City of Parma Heights	PROJECT NO.	1124 - In	dependence B	lvd Bridge
T CUY Independence Blvd Bridge				
T Roadway Estimated Quantities	COMP. BY	SRW	DATE	7/18/2021
	CHECKED BY	BPS	DATE	8/19/2021
	CT CUY Independence Blvd Bridge	T CUY Independence Blvd Bridge T Roadway Estimated Quantities COMP. BY	T CUY Independence Blvd Bridge T Roadway Estimated Quantities COMP. BY SRW	T CUY Independence Blvd Bridge T Roadway Estimated Quantities COMP. BY SRW DATE

ITEM 659 - INTER-SEEDING

Estimated at 5% of the permanent seeding and mulching area.

	Area (SY)		Rate			
Inter-seeding:	171	х	0.05	=	8.55	SY
Total:					8.55	SY
Total for General:				Say:	9	SY
Total for ITEM 659 - INTER-SEEDING:				_	9	_SY

ITEM 659 - COMMERCIAL FERTILIZER

Estimated at 30 LBS per 1000 SF of permanent seeded area. If inter-seeding is provided, use an additional 20 LBS per 1000 SF for the inter-seeded area.

Permanent seeded area: Inter-seeded area:	Area (SY) 171 9	x x	Rate (SF/SY) 9.0000 9.0000	x x	Rate (LB/SF) 0.0300 0.0300	x x	Rate (TON/L 0.0005 0.0005	B) = =	0.023 0.001	TONS TONS
Total:									0.02	TONS
Total for General:								Say:	0.02	TONS
Total for ITEM 659 - COMMERCIAL FERTILIZER:									0.02	TONS

ITEM 659 - LIME

	Area (SY)		Rate (SF/SY)	R	ate (SF/ACR	ES)		
Lime:	171	х	9.00	/	43560	=	0.04	ACRES
Total:							0.04	ACRES
Total for General:						Say:	0.04	ACRES
Total for ITEM 659 - LIME:							0.04	ACRES

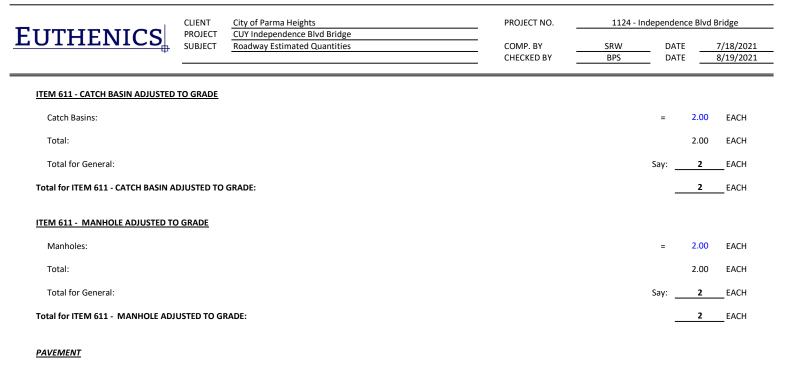
ITEM 659 - WATER

Estimate at 0.0027 M Gallons per SY per application. Apply two applications for permanent seeded area. Apply an additional application if interseeding is provided.

Permanent seeded area: Inter-seeded area:	Number 2 1	x x	Area (SY) 171 9	x x	Rate 0.0027 0.0027	= =	0.92 0.02	M GAL M GAL
Total:							0.95	M GAL
Total for General:						Say:	0.95	_ M GAL
Total for ITEM 659 - WATER:							0.95	_ M GAL
ITEM 832 - EROSION CONTROL								
Erosion Control:						=	5000.00	EACH
Total:							5000.00	EACH
Total for General:						Say:	5000	EACH
Total for ITEM 832 - EROSION CONTROL:							5000	EACH
DRAINAGE								

ITEM 605 - 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC

6" Base Pipe:	=	96.00	ft
Total:		96.00	ft
Total for General:	Say: _	96	_ft
Total for ITEM 605 - 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC:		96	ft



ITEM 301 - ASPHALT CONCRETE BASE, PG64-22

Station 27+30.00 28+51.23	to to to	Station 27+56.13 28+80.00		Length (ft) 26.13 28.77	\ × (× (Width 1 (ft) 28.00 28.00	+ +	Width 2 (fr 28.00 28.00	t))/2)/2	= =	Area (sf) 731.64 805.56	x x	Depth (ft) 0.75 0.75	/ /	27 27	= =	20.32 22.38	CY CY
Total:																	42.70	CY
Total for	Genera	al:														Say: _	43	CY
Total for ITE	M 301	- ASPHALT	CONCRETE BAS	E, PG64-22:												_	43	CY

ITEM 304 - 6" AGGREGATE BASE, AS PER PLAN

Station 27+30.00	to to	Station 27+71.13	CL	Length (ft) 41.13	۷ × (Vidth 1 (ft) 31.00	+	Width 2 (fi 45.00	:))/2	=	Area (sf) 1562.94	x	Depth (ft) 0.50	/	27	=	28.94	CY
28+36.23	to	28+80.00	CL	43.77	х (31.00	+	45.00)/2	=	1663.26	х	0.50	/	27	=	30.80	CY
Total:																	59.74	CY
Total for 0	Genera	al:														Say: _	60	_CY
Total for ITE	M 304	- 6" AGGRE	GATE BASE, AS	PER PLAN:												-	60	CY

ITEM 407 - TACK COAT (RATE 0.06 GAL/SY)

Station 27+30.00	to to	Station 27+56.13		Length (ft) 26.13	x (Width 1 (ft) 28.00	+	Width 2 (fr 28.00	,)/2	=	Area (sf) 731.64	x	Rate (gal/sy) 0.12	1	9	=	9.76	GAL
28+51.23 Total:	to	28+80.00	CL	28.77	х (28.00	+	28.00)/2	=	805.56	x	0.12	/	9	=	10.74 20.50	GAL GAL
Total for (Genera	al:														Say:	21	GAL
Total for ITE	M 407	- ТАСК СОА	T (RATE 0.06	5 GAL/SY):													21	GAL

ITEM 441 - 3" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG64-22

Station	to	Station		Length (ft)	١	Vidth 1 (ft)		Width 2 (ft)		Area (sf)		Depth (ft)					
27+30.00	to	27+56.13	CL	26.13	х (28.00	+	28.00)/2	=	731.64	х	0.25	/	27	=	6.77	CY
28+51.23	to	28+80.00	CL	28.77	x (28.00	+	28.00)/2	=	805.56	x	0.25	/	27	=	7.46	CY
Total:																	14.23	CY
Total for (Genera	al:														Say:	14	_CY
Total for ITE	M 441	- 3" ASPHAI	LT CONCRETE SURI	ACE COURSE,	TYPE 1,	(448), AS PE	R PL	AN, PG64-22	:								14	_CY



CLIENT	City of Parma Heights	PROJECT NO.	1124 - Ind	ependence E	Blvd Bridge
PROJECT	CUY Independence Blvd Bridge				
SUBJECT	Roadway Estimated Quantities	COMP. BY	SRW	DATE	7/18/2021
-		CHECKED BY	BPS	DATE	8/19/2021

Water Work

Valve Boxes Adjusted	=	1.00	EACH
Total:	-	1.00	EACH
Total for General:	60.0	1.00	
	Say:		_EACH
Total for ITEM 638 - VALVE BOX ADJUSTED TO GRADE:		1	EACH
TRAFFIC CONTROL			
ITEM 630 - REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL			
Signs:	=	4.00	EACH
Total:		4.00	EACH
Total for General:	Say:	4	EACH
Total for ITEM 630 - REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL:		4	EACH
ITEM 630 - REMOVAL OF GROUND MOUNTED SIGN AND DELIVERY			
Signs:	=	1.00	EACH
Total:		1.00	EACH
Total for General:	Say:	1	EACH
Total for ITEM 630 - REMOVAL OF GROUND MOUNTED SIGN AND DELIVERY:		1	EACH
ITEM 630 - REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL			
Signs:	=	4.00	EACH
Total:		4.00	EACH
Total for General:	Say:	4	EACH
Total for ITEM 630 - REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL:		4	EACH
ITEM 630 - REMOVAL OF GROUND MOUNTED POST SUPPORT AND DELIVERY			
Signs:	=	1.00	EACH
Total:		1.00	EACH
Total for General:	Say:	1	EACH
Total for ITEM 630 - REMOVAL OF GROUND MOUNTED POST SUPPORT AND DELIVERY:	,	1	EACH

ITEM 642 - CENTER LINE, TYPE 1

Station 27+25.00	to to	Station 29+03.00	L	Length (ft) 178.00	/	5280	=	0.03	MI
Total:								0.03	MI
Total for (Genera	l:					Say: _	0.03	MI
Total for ITE	M 642	- CENTER LI	E, TYPE 1:				_	0.03	м



1	CLIENT	City of Parma Heights	PROJECT NO.	1124 - Independence Blvd Bridge			
2	PROJECT	CUY Independence Blvd Bridge					
_	SUBJECT	Roadway Estimated Quantities	COMP. BY	SRW	DATE	7/18/2021	
-			CHECKED BY	BPS	DATE	8/19/2021	

MAINTENANCE OF TRAFFIC

ITEM 614 - DETOUR SIGNING

This item is paid for Lump Sum.

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE

Law Enforcement Officer with Patrol Car for Assistance:	=	24.00	HOUR
Total:		24.00	HOUR
Total for General:	Say:	24	HOUR
Total for ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE:		24	HOUR

INCIDENTALS

ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN

This item is paid for Lump Sum.

ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING

This item is paid for Lump Sum.

ITEM 624 - MOBILIZATION

This item is paid for Lump Sum.