



Computation for: **ESTIMATED QUANTITIES**

SFN: **4702345**

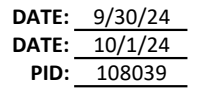
Structure: **LOR-20-24.97**

PID: **108039**

Design:	TLC	Date	July 11, 2023
Check:	MLF	Date	July 17, 2023
Update:	TLC	Date	September 30, 2024
Recheck:	BSM	Date	October 1, 2024

File Names

Comments

[illegible]



DESIGN: TLC
CHECK: MLF
STRUCTURE: LOR-20-24.97

DATE: 7/11/23
DATE: 7/17/23

UPDATE: TLC
RECHECK: BSM
SFN: 4702345

DATE: 9/30/24
DATE: 10/1/24
PID: 108039

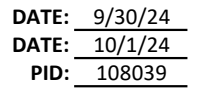
7887 Washington Village Drive, Ste 135 • Dayton, Ohio 45459
937-291-9092

ITEM: 511E43510 PAY UNIT: CY
SUBJECT: ESTIMATED QUANTITIES

DESCRIPTION: CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING

SUPPLEMENTAL DESCRIPTION: _____

			SUBTOTAL	TOTAL
Abut. Length =	66.5	ft		
Footing Width =	3	ft		
Footing Height =	3	ft		
Stem Width =	2.25	ft		
Avg. Stem Height =	2.30	ft		
Footing/Stem Volume =	69.82	CY	70	70
WW Width =	2.25	ft		
Rear Left WW Top Elev =	725.47			
Rear Left WW End Slope Elev. =	723.48			
Rear Left WW Bott. Elev =	722.4			
Rear Left WW Straight Length =	1.25	ft		
Rear Left WW Slope Length =	4	ft		
Rear Left Area =	13.49	sf		
Rear Right WW Top Elev =	725.40			
Rear Right WW End Slope Elev. =	723.43			
Rear Right WW Bott. Elev =	722.40			
Rear Right WW Straight Length =	1.66	ft		
Rear Right WW Slope Length =	4	ft		
Rear Right Area =	14.75	sf		
Fwd Left WW Top Elev =	725.72			
Fwd Left WW End Slope Elev. =	723.68			
Fwd Left WW Bott. Elev =	722.65			
Fwd Left WW Straight Length =	1.66	ft		
Fwd Left WW Slope Length =	4	ft		
Fwd Left Area =	15.01	sf		
Fwd Right WW Top Elev =	725.65			
Fwd Right WW End Slope Elev. =	723.48			
Fwd Right WW Bott. Elev =	722.65			
Fwd Right WW Straight Length =	1.25	ft		
Fwd Right WW Slope Length =	4	ft		
Fwd Right Area =	12.45	sf		
WW Volume =	4.64	CY	5	75
SPECIAL INSTRUCTIONS:			TOTAL	



DESCRIPTION: SEALING OF CONCRETE SURFACES (NON-EPOXY)
SUPPLEMENTAL DESCRIPTION: _____

Worksheet: 512E10050
14 OF 29



DESIGN: TLC
CHECK: MLF
STRUCTURE: LOR-20-24.97

DATE: 7/11/23
DATE: 7/17/23

UPDATE: TLC
RECHECK: BSM
SFN: 4702345

DATE: 9/30/24
DATE: 10/1/24
PID: 108039

7887 Washington Village Drive, Ste 135 • Dayton, Ohio 45459
937-291-9092

ITEM: 512E10100 PAY UNIT: SY
SUBJECT: ESTIMATED QUANTITIES

DESCRIPTION: SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

SUPPLEMENTAL DESCRIPTION:

				SUBTOTAL	TOTAL
Barrier & Slab Edge					
Sealed Slab Length =	79.27	ft			
Bridge Length =	82.77	ft			
Left Barrier/Sidewalk Perimeter =	6.20	ft			
Right Barrier/Sidewalk Perimeter =	6.30	ft			
Slab Sealed Perimeter =	2.00	ft			
Area = 150.11 SY				151	151
Abutment Face and WWs					
Rear Abut/Diaphragm Face =	124.48	sf			
Fwd Abut/Diaphragm Face =	124.48	sf			
Rear Right WW Face =	15.38	sf	* Measured in CAD		
Rear Left WW Face =	14.10	sf	* Measured in CAD		
Fwd Right WW Face =	14.39	sf	* Measured in CAD		
Fwd Left WW Face =	15.67	sf	* Measured in CAD		
Rear Right WW Top & Back Face Area =	20.82	sf	* Measured in CAD		
Rear Left WW Top & Back Face Area =	19.69	sf	* Measured in CAD		
Fwd Right WW Top & Back Face Area =	19.69	sf	* Measured in CAD		
Fwd Right WW Top & Back Face Area =	20.82	sf	* Measured in CAD		
Area = 43.28 SY				44	195
Pier Cap					
Cap Average Height =	2.29	ft			
Cap Width =	3.00	ft			
Straight Cap Perimeter	7.59	ft			
Straight Cap Length	49.00	ft			
End Cap Perimeter =	7.71	ft			
Area = 90.48 SY				91	286
App Slab Mounted Barrier & Slab Edge					
App Slab Length =	30	ft			
Left Barrier/Sidewalk Perimeter =	6.20	ft			
Right Barrier/Sidewalk Perimeter =	6.30	ft			
Area = 41.64 SY				42	328
SPECIAL INSTRUCTIONS:				TOTAL	

MADE BY: TLC		DATE: 7/17/2023		ESTIMATED QUANTITIES					STRUCTURAL FILE NUMBER: 4702345	
CHECKED BY: MLF		DATE: 7/17/2023								
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIER	SUPER.	GEN.	REFERENCE SHEET NO.	
202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN					2/25	
503	11100	LUMP		COFFERDAMS AND EXCAVATION BRACING						
503	21100	1,760	CY	UNCLASSIFIED EXCAVATION				1,760		
507	00101	600	FT	STEEL PILES HP10X42, FURNISHED, AS PER PLAN	600				2/25	
507	00201	640	FT	STEEL PILES HP12X53, FURNISHED, AS PER PLAN		640			2/25	
507	71200	195	FT	SPECIAL - PILE ENCASEMENT		195			2/25	
507	92201	620	FT	PREBORED HOLES, AS PER PLAN	356	264			2/25	
509	10000	81,499	LB	EPOXY COATED STEEL REINFORCEMENT	7,722	3,995	69,782			
510	10000	230	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT			166	64		
511	33312	272	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE		27	245			
511	43510	75	CY	CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING	75					
511	51512	47	CY	CLASS QC2 CONCRETE WITH QC/QA, SIDEWALK			34	13		
512	10050	177	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)			130	47		
512	10100	328	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	44	91	151	42		
512	33000	16	SY	TYPE 2 WATERPROOFING				16		
516	13200	84	SF	1/2" PREFORMED EXPANSION JOINT FILLER	84					
516	13600	112	SF	1" PREFORMED EXPANSION JOINT FILLER	102			10		
516	14014	133	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL	133					
517	75121	226	FT	RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING), AS PER PLAN			166	60	2.18 TO 21/25	
518	21200	68	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	68					
518	40000	133	FT	6" PERFORATED CORRUGATED PLASTIC PIPE				133		
518	40012	60	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE				60		
526	10001	176	SY	REINFORCED CONCRETE APPROACH SLABS (T=12"), AS PER PLAN				176	22/25	
530	00200	LUMP		SPECIAL - STRUCTURES (EXISTING STRUCTURE REPAIR)					2/25	
601	32200	361	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER				361		
625	33000	1	EACH	STRUCTURE GROUNDING SYSTEM				1		
Bla	k Est	0	0	0						
Qry	temE2	0	0							

MADE BY: TLC CHECKED BY: MLF		DATE: 7/17/2023 DATE: 7/17/2023		ESTIMATED QUANTITIES					STRUCTURAL FILE NUMBER: 4702345	
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIER	SUPER.	GEN.	REFERENCE SHEET NO.	
202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN					2/24	
503	11100	LUMP		COFFERDAMS AND EXCAVATION BRACING						
503	21100		CY	UNCLASSIFIED EXCAVATION						
507	00101		FT	STEEL PILES HP10X42, FURNISHED, AS PER PLAN					2/24	
507	00201		FT	STEEL PILES HP12X53, FURNISHED, AS PER PLAN					2/24	
507	92201		FT	PREBORED HOLES, AS PER PLAN					2/24	
509	10000		LB	EPOXY COATED STEEL REINFORCEMENT						
510	10000		EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT						
511	33312		CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE						
511	43510		CY	CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING						
511	51512		CY	CLASS QC2 CONCRETE WITH QC/QA, SIDEWALK						
512	10050		SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)						
512	10100		SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)						
512	33000		SY	TYPE 2 WATERPROOFING						
516	13200		SF	1/2" PREFORMED EXPANSION JOINT FILLER						
516	13600		SF	1" PREFORMED EXPANSION JOINT FILLER						
516	14014		FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL						
517	75121		FT	RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING), AS PER PLAN					2, 19 TO 21/24	
518	21200		CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC						
518	40000		FT	6" PERFORATED CORRUGATED PLASTIC PIPE						
518	40012		FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE						
526	10000		#REF!	#REF!						
530	00200	LUMP		SPECIAL - STRUCTURES (EXISTING STRUCTURE REPAIR)					2/24	
601	32200		CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER						
625	33000		EACH	STRUCTURE GROUNDING SYSTEM						