

**APPENDIX F**  
**SAMPLE OWNER’S AGREEMENT, STANDARD UNIT PRICES,**  
**AND SAMPLE ENGINEER’S ESTIMATE**

The Standard Unit Prices are updated on a regular basis. Please check the Delaware County Engineer’s Website for the most current Unit Prices the Design Resource Page at:

<http://www.co.delaware.oh.us/engineer/drp.htm>

The direct link to the Unit Prices is at:

<http://www.co.delaware.oh.us/engineer/Review/Standards/Appendix/PDFs/f04%20Standard%20Unit%20Prices.pdf>

**PROJECT AGREEMENT**

**PROJECT NUMBER:** \_\_\_\_\_

**THIS AGREEMENT** executed on this \_\_\_\_ day of \_\_\_\_\_,  
\_\_\_\_\_ between \_\_\_\_\_  
hereinafter called ‘**OWNER**’ and the **BOARD OF COUNTY COMMISSIONERS OF DELAWARE COUNTY, OHIO (COUNTY COMMISSIONERS)**, for the project described as \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_,  
further identified as Project Number \_\_\_\_\_, is governed by the following considerations to wit:

Said **OWNER** is to construct, install or otherwise make all public improvements shown and set forth to be done and performed in compliance with the approved engineering drawings and specifications, all of which are a part of this **AGREEMENT**.

**OPTIONS**

1. Should **OWNER** elect to record the plat prior to beginning construction, **OWNER** shall execute bond, certified check, irrevocable letter of credit, or other approved financial warranties equal to the cost of construction as shown in **Exhibit “A”** attached hereto.
2. Should **OWNER** elect to proceed to construction prior to recording the plat, no approved financial warranties are necessary until such time as **OWNER** elects to record the plat. Such plat cannot be recorded until the County Engineer has determined the construction of the project is at least 80% complete. Then the **OWNER** shall execute approved financial warranties acceptable to the **COUNTY COMMISSIONERS**, forms of which are attached to this **AGREEMENT** as **Exhibit “B”**, equal to 20% of the cost of construction as shown in **Exhibit “A”** attached hereto.

**OWNER** hereby elects to use Option \_\_\_\_ for this project.

The financial warranties are to insure faithful performance of this **AGREEMENT** and the completion of all improvements in accordance with the **Delaware County Design, Construction and Surveying Standards and any supplements thereto**. The **OWNER** shall pay the entire cost and expense of said improvements, unless otherwise specifically noted herein.

The **OWNER** shall indemnify and save harmless **Delaware County, and all Townships and/or Villages** within Delaware County and all of their officials, employees or agents from all claims, suits, actions and proceedings which may originate from or on account of any death, injuries or damages to persons or property received or sustained as a consequence of any actions or omissions of any contractor or subcontractor or from any material, including explosives, or any method used in said work or by or on account of any accident caused by negligence or any other act or omission of any contractor or his agents or employees.

**All public improvement construction** shall be performed within one (1) year from the date on which this **AGREEMENT** is executed by the **COUNTY COMMISSIONERS**.

The **OWNER** shall have a competent representative who is familiar with the project on site during construction. The representative shall be capable of reading plans and specifications and shall have the authority to execute the plans and specifications and alterations required by the **COUNTY**. The representative shall be replaced by the **OWNER** when, in the opinion of the **COUNTY**, his performance is deemed inadequate.

The **OWNER** further agrees that any violations of or noncompliance with any of the provisions and stipulations of this **AGREEMENT** shall constitute a breach of contract, and the **COUNTY** shall have the right to stop work forthwith and act against the performance surety for the purpose of proper completion of the public improvements within this subdivision.

It is further agreed that upon execution of the **AGREEMENT**, the **OWNER** shall deposit \_\_\_\_\_ **DOLLARS** estimated to be necessary to pay the cost of inspection by the **Delaware County Engineer** and, if deemed necessary by the **Delaware County Engineer**, testing by an independent testing laboratory. When the fund has been depleted to **ten percent (10%)** of the original amount deposited, the **OWNER** shall replenish the account, upon notice by the **Delaware County Engineer**. Upon completion of the maintenance period and acceptance of the improvements by the Delaware County Commissioners, the remaining amount in the fund shall be returned to the **OWNER**.

**Upon the completion of construction, the OWNER shall be responsible for the maintenance, repair or reconstruction of any and all defective materials or workman-ship for a period of one year. Said OWNER’S bond, certified check, irrevocable letter of credit or other approved financial warranties may be reduced to 10% of the originally approved construction estimate as shown in Exhibit “A” for said maintenance. The reduction may be approved only after the County Engineer has been provided evidence that all work has been accomplished according to the approved plan and/or to the County Engineer’s satisfaction. All work is to be done in accordance with the Delaware County Design, Construction and Surveying Standards, and any supplements thereto.**

**Acceptance of the project** into the public system shall be completed only after written notice to the COUNTY COMMISSIONERS from the County Engineer of his approval. The OWNER’S maintenance responsibility as described above shall be completed upon formal acceptance by the COUNTY COMMISSIONERS.

**Any snow or ice removal, erosion and sediment control maintenance, or other safety requirements deemed necessary by the County Engineer** during the period of construction or maintenance shall be the responsibility of the OWNER. All of the funds set forth in the AGREEMENT shall be made available to the County Engineer to ensure proper safety compliance.

The OWNER shall, within thirty (30) days of completion of construction and prior to final acceptance, furnish to the COUNTY COMMISSIONERS, as required, “as built” drawings of the improvements, which plans shall become the property of the COUNTY and remain in the office of the Delaware County Engineer.

The OWNER shall, within thirty (30) days of completion of construction, furnish to the COUNTY COMMISSIONERS an itemized statement showing the cost of improvements and an affidavit that all material and labor costs have been paid. The OWNER shall indemnify and hold harmless Delaware County, and all Townships and/or Villages within Delaware County and all of their officials, employees or agents from expenses or claims for labor or material incident to said construction of improvements.

The OWNER shall obtain all other necessary utility services incident to the construction of the improvements and for their continued operation. The OWNER shall be responsible for all utility charges and installation costs. The utility user charges shall be paid by the OWNER and

maintained in continuous use throughout the construction and testing phases until accepted for operation and maintenance by the **County**.

**Should the OWNER become unable to carry out the provisions of this AGREEMENT, the OWNER'S heirs, successors or assigns shall complete and comply with all applicable terms, conditions, provisions and requirements of this AGREEMENT.**

**In consideration whereof, the BOARD OF COUNTY COMMISSIONERS OF DELAWARE COUNTY, OHIO, hereby grants the OWNER or his agent, the right and privileges to make the improvements stipulated herein.**

By:

Board of Commissioners  
Delaware County, Ohio:

\_\_\_\_\_  
For Owner

\_\_\_\_\_

\_\_\_\_\_  
Name (print)

\_\_\_\_\_

\_\_\_\_\_  
Witness

\_\_\_\_\_

\_\_\_\_\_  
Name (print)

Approved as to form:

\_\_\_\_\_  
Delaware County Prosecutor

**EXHIBIT "A"**

CONSTRUCTION COST ESTIMATE \$ \_\_\_\_\_

CONSTRUCTION BOND AMOUNT \$ \_\_\_\_\_

MAINTENANCE BOND AMOUNT \$ \_\_\_\_\_

INSPECTION FEE DEPOSIT \$ \_\_\_\_\_

COL	ODOT	ITEM DESCRIPTION	UNIT	PRICE	COMMENTS
ITEM	ITEM				
201	201	CLEARING AND GRUBBING	LIN FT	\$ 2.60	Use for basis of calc. when less than or equal to 5280 lin ft of street
201	201	CLEARING AND GRUBBING	LIN FT	\$ 1.74	Use for basis of calc. when greater than 5280 lin ft of street
201	201	CLEARING AND GRUBBING	LIN FT	\$ 3.04	Use for basis of calc. when less than or equal to 5280 lin ft of street (Wooded area)
201	201	CLEARING AND GRUBBING	LIN FT	\$ 2.17	Use for basis of calc. when greater than 5280 lin ft of street (Wooded area)
201	201	TREES AND/OR STUMPS REMOVED	EACH	\$ 286.50	
202	202	BASE REMOVED AND DISPOSED OF	SQ YD	\$ 9.38	
202	202	BUILDINGS REMOVED	LUMP SUM	\$ -	Price to be determined on project to project basis
202	202	CATCH BASIN ABANDONED	EACH	\$ 312.54	
202	202	CATCH BASIN REMOVED	EACH	\$ 364.63	
202	202	CONCRETE PAVEMENT REMOVED AND DISPOSED OF	SQ YD	\$ 9.69	
202	202	CURB AND GUTTER REMOVED AND DISPOSED OF	LIN FT	\$ 8.86	
202	202	CURB INLET REMOVED	EACH	\$ 364.63	
202	202	CURB REMOVED AND DISPOSED OF	LIN FT	\$ 7.81	
202	202	DRIVE APPROACH REMOVED AND DISPOSED OF	SQ YD	\$ 8.33	
202	202	FENCE REMOVED	LIN FT	\$ 5.21	
202	202	FENCE REMOVED FOR REUSE	LIN FT	\$ 10.42	
202	202	GATE REMOVED	EACH	\$ 153.98	
202	202	GUARD RAIL REMOVED AND DISPOSED OF	LIN FT	\$ 3.65	
202	202	HEADWALL REMOVED	EACH	\$ 212.01	
202	202	INLET ABANDONED	EACH	\$ 364.63	
202	202	MANHOLE ABANDONED	EACH	\$ 395.88	
202	202	MANHOLE REMOVED	EACH	\$ 468.81	
202	202	PAVEMENT REMOVED AND DISPOSED OF	SQ YD	\$ 6.41	
202	202	PIPE REMOVED	LIN FT	\$ 36.46	
202	202	PIPE REMOVED FOR STORAGE	LIN FT	\$ 10.26	
202	202	PORTIONS OF STRUCTURES REMOVED	LUMP SUM	\$ -	Price to be determined on project to project basis
202	202	PRE-CAST TRAFFIC DIVIDERS REMOVED FOR REUSE	EACH	\$ 19.64	
202	202	SANDSTONE CURB REMOVED AND DISPOSED OF	LIN FT	\$ 4.55	
202	202	SEPTIC TANK REMOVED	EACH	\$ 1,123.06	
202	202	SIDEWALK REMOVED AND DISPOSED OF	SQ YD	\$ 14.53	
202	202	SIDEWALK REMOVED AND DISPOSED OF	LIN FT	\$ 6.46	
202	202	SPECIAL - DRILLED WATER WELL ABANDONED	EACH	\$ 783.43	
202	202	SPECIAL - FILL AND PLUG EXISTING CONDUIT	LIN FT	\$ 38.96	
202	202	SPECIAL - PIPE CLEANOUT	LIN FT	\$ 14.48	
202	202	STRUCTURES AND OBSTRUCTIONS REMOVED	LUMP SUM	\$ -	Price to be determined on project to project basis
202	202	UNDERGROUND STORAGE TANK REMOVED	LUMP SUM	\$ -	Price to be determined on project to project basis
202	202	WEARING COURSE REMOVED AND DISPOSED OF	SQ YD	\$ 6.56	
203	203	BORROW	CU YD	\$ 7.97	
203	203	EMBANKMENT	CU YD	\$ 11.93	
203	203	EXCAVATION INCLUDING EMBANKMENT CONSTRUCTION	CU YD	\$ 6.77	

COL	ODOT	ITEM DESCRIPTION	UNIT	PRICE	COMMENTS
203	203	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION	CU YD	\$ 13.13	
204	203	PROOF ROLLING	HOURL	\$ 182.32	REQ'D. ON ALL ESTIMATES
204	203	SUBGRADE COMPACTION	SQ YD	\$ 1.04	REQ'D. ON ALL ESTIMATES
	203	WATER	M GAL	\$ 36.46	
	207	BEAVER DAM	EACH	\$ 53.81	
207	207	CONSTRUCTION ENTRANCE	SQ YD	\$ 5.37	
207	207	FILTER FABRIC FENCE	LIN FT	\$ 2.71	REQ'D. ON ALL ESTIMATES
	207	GRAVEL CURB - INLET FILTER	EACH	\$ 179.29	
207	207	INLET PROTECTION	EACH	\$ 59.90	
207	207	STRAW WADDLES	EACH	\$ 15.63	REQ'D. ON ALL ESTIMATES
207	207	TEMPORARY SEEDING AND MULCHING	SQ YD	\$ 0.89	REQ'D. ON ALL ESTIMATES
252	252	PERMANENT PAVEMENT REPLACED (TYPE 1A - RIGID BASE)	SQ YD	\$ 41.83	
252	252	PERMANENT PAVEMENT REPLACED (TYPE 1A - RIGID BASE)	CU YD	\$ 167.37	
252	252	PERMANENT PAVEMENT REPLACED [TYPE 1B-FLEXIBLE (NO BASE)]	SQ YD	\$ 35.84	
252	252	PERMANENT PAVEMENT REPLACED [TYPE 1B-FLEXIBLE (NO BASE)]	CU YD	\$ 143.46	
252	252	PERMANENT PAVEMENT REPLACED [TYPE 1C-FLEXIBLE (WITH BASE)]	SQ YD	\$ 29.90	
252	252	PERMANENT PAVEMENT REPLACED [TYPE 1C-FLEXIBLE (WITH BASE)]	CU YD	\$ 119.55	
252	252	PERMANENT PAVEMENT REPLACED [TYPE IIA (FOR BITUMINOUS AND BRICK)]	SQ YD	\$ 32.30	
252	252	PERMANENT PAVEMENT REPLACED [TYPE IIA (FOR BITUMINOUS AND BRICK)]	CU YD	\$ 131.48	
252	252	PERMANENT PAVEMENT REPLACED [TYPE IIB (FOR CONCRETE STREETS)]	SQ YD	\$ 29.90	
252	252	PERMANENT PAVEMENT REPLACED [TYPE IIB (FOR CONCRETE STREETS)]	CU YD	\$ 119.55	
252	252	PERMANENT PAVEMENT REPLACED [TYPE IIC (FOR FLEXIBLE STREETS)]	SQ YD	\$ 26.31	
252	252	PERMANENT PAVEMENT REPLACED [TYPE IIC (FOR FLEXIBLE STREETS)]	CU YD	\$ 107.57	
252	252	PERMANENT PAVEMENT REPLACED [TYPE IID (FOR BRICK STREETS)]	SQ YD	\$ 71.73	
252	252	PERMANENT PAVEMENT REPLACED [TYPE IID (FOR BRICK STREETS)]	CU YD	\$ 286.86	
252	252	PERMANENT PAVEMENT REPLACED [TYPE IIIA (FOR ASPHALT DRIVES)]	SQ YD	\$ 21.51	
252	252	PERMANENT PAVEMENT REPLACED [TYPE IIIA (FOR ASPHALT DRIVES)]	CU YD	\$ 89.65	
252	252	PERMANENT PAVEMENT REPLACED [TYPE IIIB (FOR CONCRETE DRIVES)]	SQ YD	\$ 29.90	
252	252	PERMANENT PAVEMENT REPLACED [TYPE IIIB (FOR CONCRETE DRIVES)]	CU YD	\$ 119.55	
252	252	PERMANENT PAVEMENT REPLACED [TYPE IIIC (FOR GRAVEL DRIVES)]	SQ YD	\$ 14.32	
252	252	PERMANENT PAVEMENT REPLACED [TYPE IIIC (FOR GRAVEL DRIVES)]	CU YD	\$ 59.80	
	252	FULL DEPTH PAVEMENT SAWING	LIN FT	\$ 2.34	
251	253	PAVEMENT REPAIR, AS PER PLAN	SQ YD	\$ 38.55	
254	254	PAVEMENT PLANNING	SQ YD	\$ 4.65	
301	301	BITUMINOUS AGGREGATE BASE (Specify Thickness)	CU YD	\$ 140.00	
304	304	AGGREGATE BASE (Specify Thickness)	CU YD	\$ 50.00	
911		COMPACTED BACKFILL	CU YD	\$ 25.00	
	304	COMPACTED GRANULAR BACKFILL	CU YD	\$ 25.00	
912		COMPACTED GRANULAR MATERIAL	CU YD	\$ 40.00	
305	305	8 IN. PORTLAND CEMENT CONCRETE BASE	SQ YD	\$ 54.59	Arterial
305	305	6 IN. PORTLAND CEMENT CONCRETE BASE	SQ YD	\$ 53.44	Arterial
305	305	5 IN. PORTLAND CEMENT CONCRETE BASE	SQ YD	\$ 50.42	Arterial
310		SUBBASE	CU YD	\$ 25.00	Based on 1997 Columbus CMS Item No.
402		ASPHALT CONCRETE (Specify Thickness)	CU YD	\$ 135.00	
402		ASPHALT CONCRETE, PG GRADE (DRIVEWAYS)	CU YD	\$ 180.00	
404		ASPHALT CONCRETE (Specify Thickness)	CU YD	\$ 185.00	
404		ASPHALT CONCRETE, PG GRADE (DRIVEWAYS)	CU YD	\$ 193.00	
407	407	TACK COAT	SQ YD	\$ 1.90	
407	407	TACK COAT	GALLON	\$ 3.25	
408	408	BITUMINOUS PRIME COAT	SQ YD	\$ 2.20	
409	409	SEAL COAT BITUMINOUS MATERIAL	GALLON	\$ 3.96	
409	409	SEAL COAT COVER AGGREGATE	TONS	\$ 45.53	
410	410	TRAFFIC COMPACTED SURFACE TYPE A	CU YD	\$ 44.38	
410	410	TRAFFIC COMPACTED SURFACE TYPE B	CU YD	\$ 50.94	
410	410	TRAFFIC COMPACTED SURFACE TYPE C	CU YD	\$ 34.90	
411	411	STABILIZED CRUSHED AGGREGATE	CU YD	\$ 45.34	
413		CRACK SEALING - - HOT APPLIED	LIN FT	\$ 0.57	

COL	ODOT	ITEM DESCRIPTION	UNIT	PRICE	COMMENTS
413		CRACK SEALING - - HOT APPLIED	SQ YD	\$ 2.40	
	422	SINGLE CHIP SEAL WITH POLYMER BINDER	SQ YD	\$ 1.30	
	448	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22	CU YD	\$ 135.00	
	448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22	CU YD	\$ 185.00	
	452	NON-REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT, 8" IN DRIVEWAY APPROACH	SQ YD	\$ 52.09	
452	452	NON-REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT, 6" IN DRIVEWAY APPROACH	SQ YD	\$ 49.80	
454		PAVEMENT RELIEF JOINTS	LIN FT	\$ 14.32	
502	502	TEMPORARY BRIDGE	LUMP SUM	\$ -	All 500 prefix item costs for Delaware County CIP projects shall use ODOT Summary of Contracts Awarded Unit Prices
503	503	COFFERDAMS, CRIBS AND SHEETING	LUMP SUM	\$ -	
503	503	ROCK EXCAVATION	CU YD	\$ 59.80	
503	503	SHALE EXCAVATION	CU YD	\$ 59.80	
503	503	UNCLASSIFIED EXCAVATION	CU YD	\$ 26.30	
503	503	UNCLASSIFIED EXCAVATION - ROCK	CU YD	\$ 40.63	
503	503	UNCLASSIFIED EXCAVATION - SHALE	CU YD	\$ 40.63	
	505	TEST PILE	LUMP SUM	\$ -	
506	506	PILE TEST LOAD	LUMP SUM	\$ -	
506	506	SUBSEQUENT PILE TEST LOAD	EACH	\$ 4,375.56	
507	507	PREBORED HOLES	LIN FT	\$ 47.82	
507	507	STEEL SHOES	EACH	\$ 87.51	
507	507	STEEL POINTS	EACH	\$ 74.49	
507	507	STEEL PILES (H.P. 12 X 53)	LIN FT	\$ 26.31	
507	507	STEEL PILES (H.P. 14 X 73)	LIN FT	\$ 34.66	
507	507	STEEL PILES (H.P. 10 X 42)	LIN FT	\$ 23.91	
507	507	12 IN. DIAMETER (CAST IN PLACE) REINFORCED CONCRETE PILES	LIN FT	\$ 26.31	
507	507	14 IN. DIAMETER (CAST IN PLACE) REINFORCED CONCRETE PILES	LIN FT	\$ 32.30	
509	509	REINFORCING STEEL	POUND	\$ 1.35	
510	510	DOWEL HOLES	EACH	\$ 11.98	
510	510	DOWEL HOLES	LIN FT	\$ 13.13	
511	511	CLASS C CONCRETE	CU YD	\$ 390.68	
	511	CLASS C CONCRETE ABUTMENTS	CU YD	\$ 390.68	
	511	CLASS C CONCRETE FOOTINGS	CU YD	\$ 312.54	
	511	CLASS C CONCRETE PIERS ABOVE FOOTINGS	CU YD	\$ 442.77	
	511	CLASS C CONCRETE RETAINING WALLS	CU YD	\$ 416.72	
	511	CLASS S CONCRETE SUPER-STRUCTURE	CU YD	\$ 625.08	
	512	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	SQ YD	\$ 10.89	
	512	SEALING OF CONCRETE SURFACES (NON-EPOXY)	SQ YD	\$ 7.08	
512	512	TYPE 2 WATERPROOFING (FOR BOX CULVERTS)	SQ YD	\$ 15.11	
512	512	TYPE 3 WATERPROOFING (FOR BOX CULVERTS)	SQ YD	\$ 21.98	
512	512	TYPE A WATERPROOFING	SQ YD	\$ 32.82	
512	512	TYPE B WATERPROOFING	SQ YD	\$ 28.44	
512	512	TYPE D WATERPROOFING	SQ YD	\$ 15.37	
513	513	STRUCTURAL STEEL	POUND	\$ 2.60	
513	513	STRUCTURAL STEEL	LUMP SUM	\$ -	
	513	WELDED STUD SHEAR CONNECTORS	EACH	\$ 4.69	
514	514	FIELD PAINTING OF STRUCTURAL STEEL	POUND	\$ 1.04	
514	514	FIELD PAINTING OF STRUCTURAL STEEL	LUMP SUM	\$ -	
516	516	EXPANSION AND CONTRACTION JOINTS	LIN FT	\$ 298.84	
516	516	EXPANSION AND CONTRACTION JOINTS	POUND	\$ 2.40	
516	516	JOINT SEALER	LIN FT	\$ 5.98	
517	517	RAILING TYPE 1	LIN FT	\$ 131.53	
517	517	RAILING TYPE 2	LIN FT	\$ 107.57	

COL	ODOT	ITEM DESCRIPTION	UNIT	PRICE	COMMENTS
518	518	6 IN. STD. PIPE DOWNSPOUT GALVANIZED STEEL 707.08 INC. SPEC.	LIN FT	\$ 99.23	
518	518	8 IN. STD. PIPE DOWNSPOUT GALVANIZED STEEL 707.08 INC. SPEC.	LIN FT	\$ 95.64	
518	518	PIPE HORIZONTAL CONDUCTORS	LIN FT	\$ 68.13	
518	518	PIPE HORIZONTAL CONDUCTORS	LUMP SUM	\$ -	
518	518	POROUS BACKFILL	CU YD	\$ 34.69	
518	518	POROUS BACKFILL WITH FILTER FABRIC	CU YD	\$ 59.38	
518	518	SCUPPERS	EACH	\$ 596.64	
	518	SUBDRAINAGE FOR WEARING COURSE	LIN FT	\$ 17.92	
518	518	THROUGH HORIZONTAL CONDUCTORS	LIN FT	\$ 102.83	
518	518	THROUGH HORIZONTAL CONDUCTORS	LUMP SUM	\$ -	
	519	PATCHING CONCRETE STRUCTURE	SQ FT	\$ 47.82	
520	520	PNEUMATICALLY PLACED MORTAR METHOD A	SQ FT	\$ 47.82	
	520	PNEUMATICALLY PLACED MORTAR METHOD B	SQ FT	\$ 52.61	
521		BRIDGE TIMBERS	M.B.M.	\$ 4,781.29	
601	601	CONCRETE SLOPE PROTECTION	SQ YD	\$ 59.47	
601	601	PAVED GUTTER, TYPE _	LIN FT	\$ 55.22	TYPE 1 THRU 4 RANGE
601	601	RIPRAP USING 6" REINFORCED CONCRETE SLAB	CU YD	\$ 138.77	
601	601	ROCK CHANNEL PROTECTION TYPE B, WITH FILTER	CU YD	\$ 65.28	
601	601	ROCK CHANNEL PROTECTION TYPE C, WITH FILTER	CU YD	\$ 63.98	
602	602	CONCRETE MASONRY	CU YD	\$ 910.55	
603	603	4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	LIN FT	\$ 11.04	
603	603	6" CONDUIT, TYPE F FOR DRAINAGE	LIN FT	\$ 13.49	
603	603	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	LIN FT	\$ 13.65	
603	603	12" CONDUIT, TYPE A, CLASS _	LIN FT	\$ 62.51	
603	603	12" CONDUIT, TYPE A, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 70.01	
603	603	12" CONDUIT, TYPE B, CLASS _	LIN FT	\$ 54.47	
603	603	12" CONDUIT, TYPE B, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 61.00	
603	603	12" CONDUIT, TYPE F	LIN FT	\$ 44.93	
603	603	12" CONDUIT, TYPE C, CLASS _	LIN FT	\$ 36.85	
603	603	15" CONDUIT, TYPE A, CLASS _	LIN FT	\$ 65.63	
603	603	15" CONDUIT, TYPE A, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 73.51	
603	603	15" CONDUIT, TYPE B, CLASS _	LIN FT	\$ 57.30	
603	603	15" CONDUIT, TYPE B, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 64.17	
603	603	15" CONDUIT, TYPE C, CLASS _	LIN FT	\$ 41.22	
603	603	15" CONDUIT, TYPE F, CLASS _	LIN FT	\$ 52.23	
603	603	18" CONDUIT, TYPE A, CLASS _	LIN FT	\$ 69.96	
603	603	18" CONDUIT, TYPE A, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 78.35	
603	603	18" CONDUIT, TYPE B, CLASS _	LIN FT	\$ 62.51	
603	603	18" CONDUIT, TYPE B, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 70.01	
603	603	18" CONDUIT, TYPE C, CLASS _	LIN FT	\$ 45.27	
603	603	21" CONDUIT, TYPE A, CLASS _	LIN FT	\$ 81.26	
603	603	21" CONDUIT, TYPE A, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 91.01	
603	603	21" CONDUIT, TYPE B, CLASS _	LIN FT	\$ 72.96	
603	603	21" CONDUIT, TYPE B, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 81.71	
603	603	21" CONDUIT, TYPE C, CLASS _	LIN FT	\$ 54.75	
603	603	24" CONDUIT, TYPE A, CLASS _	LIN FT	\$ 88.55	
603	603	24" CONDUIT, TYPE A, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 101.84	
603	603	24" CONDUIT, TYPE B, CLASS _	LIN FT	\$ 78.01	
603	603	24" CONDUIT, TYPE B, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 89.71	
603	603	24" CONDUIT, TYPE C, CLASS _	LIN FT	\$ 60.42	
603	603	27" CONDUIT, TYPE A, CLASS _	LIN FT	\$ 105.74	
603	603	27" CONDUIT, TYPE A, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 121.60	
603	603	27" CONDUIT, TYPE B, CLASS _	LIN FT	\$ 83.34	
603	603	27" CONDUIT, TYPE B, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 95.85	
603	603	27" CONDUIT, TYPE C, CLASS _	LIN FT	\$ 68.02	
603	603	30" CONDUIT, TYPE A, CLASS _	LIN FT	\$ 125.02	
603	603	30" CONDUIT, TYPE A, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 143.77	
603	603	30" CONDUIT, TYPE B, CLASS _	LIN FT	\$ 98.97	

COL	ODOT	ITEM DESCRIPTION	UNIT	PRICE	COMMENTS
603	603	30" CONDUIT, TYPE B, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 113.82	
603	603	30" CONDUIT, TYPE C, CLASS _	LIN FT	\$ 77.09	
603	603	33" CONDUIT, TYPE A, CLASS _	LIN FT	\$ 138.77	
603	603	33" CONDUIT, TYPE A, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 159.58	
603	603	33" CONDUIT, TYPE B, CLASS _	LIN FT	\$ 128.54	
603	603	33" CONDUIT, TYPE B, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 147.82	
603	603	33" CONDUIT, TYPE C, CLASS _	LIN FT	\$ 85.26	
603	603	36" CONDUIT, TYPE A, CLASS _	LIN FT	\$ 156.12	
603	603	36" CONDUIT, TYPE A, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 179.54	
603	603	36" CONDUIT, TYPE B, CLASS _	LIN FT	\$ 136.06	
603	603	36" CONDUIT, TYPE B, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 156.47	
603	603	36" CONDUIT, TYPE C, CLASS _	LIN FT	\$ 92.72	
603	603	42" CONDUIT, TYPE A, CLASS _	LIN FT	\$ 187.52	
603	603	42" CONDUIT, TYPE A, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 225.03	
603	603	42" CONDUIT, TYPE B, CLASS _	LIN FT	\$ 140.38	
603	603	42" CONDUIT, TYPE B, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 168.46	
603	603	42" CONDUIT, TYPE C, CLASS _	LIN FT	\$ 100.98	
603	603	48" CONDUIT, TYPE A, CLASS _	LIN FT	\$ 242.74	
603	603	48" CONDUIT, TYPE A, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 291.29	
603	603	48" CONDUIT, TYPE B, CLASS _	LIN FT	\$ 176.13	
603	603	48" CONDUIT, TYPE B, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 211.35	
603	603	48" CONDUIT, TYPE C, CLASS _	LIN FT	\$ 132.38	
603	603	54" CONDUIT, TYPE A, CLASS _	LIN FT	\$ 311.25	
603	603	54" CONDUIT, TYPE A, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 373.50	
603	603	54" CONDUIT, TYPE B, CLASS _	LIN FT	\$ 201.86	
603	603	54" CONDUIT, TYPE B, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 242.23	
603	603	60" CONDUIT, TYPE A, CLASS _	LIN FT	\$ 322.96	
603	603	60" CONDUIT, TYPE A, CLASS _ WITH CONCRETE ENCASEMENT	LIN FT	\$ 387.55	
603	603	ELLIPTICAL CONDUITS	LIN FT	\$ -	USE ODOT AVG UNIT PRICE AWARDED
604	604	2-2A CATCH BASIN	EACH	\$ 1,085.33	
604	604	2-2B CATCH BASIN	EACH	\$ 1,014.68	
604	604	2-3 CATCH BASIN	EACH	\$ 1,448.76	
604	604	2-4 CATCH BASIN	EACH	\$ 2,064.79	
604	604	2-5 CATCH BASIN	EACH	\$ 2,758.06	
604	604	2-6 CATCH BASIN	EACH	\$ 2,919.23	
604	604	42 IN. CURB INLETS	EACH	\$ 836.72	
604	604	42 IN. CURB INLETS WITH EXTENSIONS	EACH	\$ 956.27	
604	604	60 IN. CURB INLETS	EACH	\$ 956.27	
604	604	60 IN. CURB INLETS WITH EXTENSIONS	EACH	\$ 1,075.81	
604	604	CATCH BASIN (48 IN. INLET)	EACH	\$ 956.27	
	604	CATCH BASIN 12 IN. DIAMETER	EACH	\$ 627.58	
	604	CATCH BASIN 24 IN. DIAMETER	EACH	\$ 812.81	
604	604	CATCH BASIN 3 X 3	EACH	\$ 1,448.76	
604	604	CATCH BASIN 4 X 4	EACH	\$ 2,064.79	
604	604	CATCH BASIN 42 IN. DIAMETER	EACH	\$ 812.81	
604	604	CATCH BASIN 5 X 5	EACH	\$ 2,758.06	
604	604	CATCH BASIN 6 X 6	EACH	\$ 2,919.23	
604	604	CATCH BASIN RECONSTRUCTED TO GRADE	EACH	\$ 880.50	
604	604	CATCH BASINS ADJUSTED TO GRADE	EACH	\$ 437.84	
604	604	CURB AND GUTTER INLET	EACH	\$ 1,291.83	
604	604	HEADWALL FOR 12 IN. PIPE	EACH	\$ 713.63	
604	604	HEADWALL FOR 15 IN. PIPE	EACH	\$ 891.78	
604	604	HEADWALL FOR 18 IN. PIPE	EACH	\$ 1,069.93	
604	604	HEADWALL FOR 21 IN. PIPE	EACH	\$ 1,248.08	
604	604	HEADWALL FOR 24 IN. PIPE	EACH	\$ 1,426.22	
604	604	HEADWALL FOR 30 IN. PIPE	EACH	\$ 1,782.52	
604	604	INLETS ADJUSTED TO GRADE	EACH	\$ 525.40	

COL	ODOT	ITEM DESCRIPTION	UNIT	PRICE	COMMENTS
604	604	MANHOLES (TYPE A CLASS A)	EACH	\$ 1,168.90	
604	604	MANHOLES (TYPE A CLASS B)	EACH	\$ 1,291.83	
604	604	MANHOLES (TYPE A CLASS C)	EACH	\$ 1,500.19	
604	604	MANHOLES (TYPE A CLASS D)	EACH	\$ 1,367.36	
604	604	MANHOLES (TYPE A CLASS E)	EACH	\$ 1,162.23	
604	604	MANHOLES (TYPE A CLASS F)	EACH	\$ 1,203.28	
604	604	MANHOLES (TYPE A CLASS G)	EACH	\$ 1,230.63	
604	604	MANHOLES (TYPE A CLASS H)	EACH	\$ 1,264.80	
604	604	MANHOLES (TYPE A CLASS J)	EACH	\$ 1,333.19	
604	604	MANHOLES (TYPE A CLASS K)	EACH	\$ 1,367.36	
604	604	MANHOLES (TYPE C) (Specify Grate Lid/Special Casting, if req'd.)	EACH	\$ 2,083.60	
604	604	MANHOLES (TYPE D) (Specify Grate Lid/Special Casting, if req'd.)	EACH	\$ 1,168.90	
604	604	MANHOLES (TYPE E) (Specify Grate Lid/Special Casting, if req'd.)	EACH	\$ 5,104.82	
604	604	MANHOLES (TYPE F) (Specify Grate Lid/Special Casting, if req'd.)	EACH	\$ 1,168.90	
604	604	MANHOLES ADJUSTED TO GRADE	EACH	\$ 781.35	
604	604	MANHOLES AS PER PLAN	EACH	\$ 1,401.22	
604	604	MANHOLES RECONSTRUCTED TO GRADE	EACH	\$ 1,313.42	
604	604	NO. 5 CATCH BASIN	EACH	\$ 2,517.33	
604	604	RECTANGULAR CATCH BASIN	EACH	\$ 785.00	
604	604	STANDARD CATCH BASIN	EACH	\$ 785.00	
604	604	STANDARD CATCH BASIN 2 X 2	EACH	\$ 1,014.68	
604	604	STANDARD CATCH BASIN 2 X 2 (24" SIDE INLETS)	EACH	\$ 1,085.33	
604	604	STANDARD CATCH BASIN WITH 24 IN. SIDE INLETS	EACH	\$ 693.32	
604	604	STANDARD CURB INLET	EACH	\$ 812.81	
604	604	STANDARD CURB INLET MANHOLE	EACH	\$ 956.27	
604	604	STANDARD CURB INLET MANHOLE WITH H-H TRAP	EACH	\$ 1,045.92	
604	604	STANDARD CURB INLET WITH H-H TRAP	EACH	\$ 1,623.12	
605	605	6 IN. AGGREGATE DRAINS	LIN FT	\$ 7.58	
605	605	4 IN. PIPE UNDERDRAIN	LIN FT	\$ 4.57	
605	605	6 IN. PIPE UNDERDRAIN	LIN FT	\$ 5.37	
606	606	ANCHOR ASSEMBLY (TYPE T)	LIN FT	\$ 619.25	
606	606	ANCHOR ASSEMBLY TYPE E-98	EACH	\$ 2,058.69	
606	606	BRIDGE TERMINAL ASSEMBLY	EACH	\$ 479.23	
606	606	GUARD RAIL (TYPE 5 WITH TUBULAR BACKUP)	LIN FT	\$ 89.39	
606	606	GUARD RAIL (TYPE 5)	LIN FT	\$ 15.63	
606	606	GUARD RAIL REBUILT (TYPE 5)	LIN FT	\$ 9.01	
607	607	FENCE (TYPE 47)	LIN FT	\$ 6.87	
607	607	FENCE (TYPE CL)	LIN FT	\$ 15.16	
607	607	GATE (TYPE 47)	EACH	\$ 717.23	
607	607	GATE (TYPE CL)	EACH	\$ 930.64	
608	608	4 IN. CONCRETE WALK (Specify width)	SQ FT	\$ 3.87	
608	608	CONCRETE STEPS	LIN FT	\$ 146.22	
608	608	WHEELCHAIR RAMP	EACH	\$ 2,083.60	
609	609	STANDARD CONCRETE CURB AND GUTTER	LIN FT	\$ 15.99	
609	609	CURB (TYPE 2B)	LIN FT	\$ 7.98	
	613	LOW STRENGTH MORTAR BACKFILL	CU YD	\$ 65.63	
614	614	DETOUR SIGN	LUMP SUM	\$ 9,376.20	
614	614	LAW ENFORCEMENT OFFICER WITH PATROL CAR	hour	\$ 45.32	
614	614	MAINTAINING TRAFFIC	LUMP SUM	\$ -	MUST PROVIDE ESTIMATE WHEN WORKING ON EXISTING ROAD
614	614	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	SIGN MNTH	\$ 1,069.15	
615	615	PAVEMENT FOR MAINTAINING TRAFFIC	SQ YD	\$ 35.63	
616	616	CALCIUM CHLORIDE	TONS	\$ 287.30	REQ'D. ON ALL ESTIMATES
616	616	WATER	M GALLON	\$ 33.49	REQ'D. ON ALL ESTIMATES
617	617	COMPACTED AGGREGATE, TYPE A	CU YD	\$ 33.70	
617	617	SHOULDER RECONDITIONING	CU YD	\$ 26.05	
623	623	CONSTRUCTION LAYOUT STAKES	LUMP SUM	\$ 7,800.00	REQ'D. ON ALL ESTIMATES

COL	ODOT	ITEM DESCRIPTION	UNIT	PRICE	COMMENTS
624	624	MOBILIZATION	LUMP SUM	\$ 15,600.00	REQ'D. ON ALL ESTIMATES
625	625	ANCHOR BOLT SET	EACH	\$ 65.22	
625	625	CABLE SPLICING KIT	EACH	\$ 59.90	
625	625	CONDUIT, 2" PVC	LIN FT	\$ 5.42	
625	625	CONDUIT, 3/4" PVC	LIN FT	\$ 4.43	
625	625	CONDUIT, 4" GRC STEEL SLEEVE	LIN FT	\$ 8.23	
625	625	CONNECTOR KIT, FUSED, TYPE II	EACH	\$ 63.19	
625	625	CONNECTOR KIT, FUSED, TYPE III	EACH	\$ 62.72	
625	625	CONTROL ENCLOSURE WITH FOUNDATION	EACH	\$ 2,062.97	
625	625	GROUND ROD	EACH	\$ 151.27	
625	625	LIGHT POLE FOUNDATION		\$ 1,098.58	
625	625	LIGHT POLE WITH TRANSFORMER BASE	EACH	\$ 2,196.90	
625	625	LUMINAIRE, TYPE II	EACH	\$ 359.42	
625	625	LUMINAIRE, TYPE III	EACH	\$ 359.42	
625	625	NO. 10 AWG, TYPE XHHW, 600V POLE & BRACKET	LIN FT	\$ 0.99	
625	625	NO. 12 AWG, 600V CONTROL CABLE	LIN FT	\$ 0.89	
625	625	NO. 4 AWG, TYPE XHHW, 600V DISTRIBUTION CABLE	LIN FT	\$ 1.56	
625	625	NO. 8 AWG, GROUND WIRE, 600V	LIN FT	\$ 1.35	
625	625	POWER SERVICE	EACH	\$ 2,630.34	
625	625	PULLBOX	EACH	\$ 608.20	
625	625	TRENCH	LIN FT	\$ 3.59	
625	625	TRENCH UNDER PAVEMENT	LIN FT	\$ 25.42	
630	630	GROUND MOUNTED SUPPORT, NO 2 POST	LIN FT	\$ 7.29	
630	630	GROUND MOUNTED SUPPORT, NO 3 POST	LIN FT	\$ 8.33	
630	630	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	EACH	\$ 11.31	
630	630	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	EACH	\$ 9.08	
630	630	REMOVAL OF GROUND MOUNTED SIGN AND RE-ERECTION	EACH	\$ 55.75	
630	630	SIGN, DOUBLE FACED STREET NAME - COLLECTOR	EACH	\$ 156.27	
630	630	SIGN, DOUBLE FACED STREET NAME - RESIDENTIAL	EACH	\$ 104.18	
630	630	SIGN, DOUBLE FACED W/GROUND MOUNTED SUPPORT - COLLECTOR	EACH	\$ 156.27	
630	630	SIGN, DOUBLE FACED W/GROUND MOUNTED SUPPORT - RESIDENTIAL	EACH	\$ 156.27	
630	630	SIGN, FLAT SHEET (Specify sign type, e.g., Stop Sign, etc.)	SQ FT	\$ 15.11	
630	630	SPEED LIMIT SIGN W/GROUND MOUNTED SUPPORT	EACH	\$ 156.27	
630	630	STOP SIGN W/GROUND MOUNTED SUPPORT	EACH	\$ 171.90	
630	630	STREET NAME SIGN SUPPORT - COLLECTOR	EACH	\$ 208.36	
630	630	STREET NAME SIGN SUPPORT - RESIDENTIAL	EACH	\$ 156.27	
634	634	GABION EMBANKMENT	CU YD	\$ 149.39	
644	644	CENTERLINE	MILE	\$ 3,439.10	
644	644	CHANNELIZING	LIN FT	\$ 1.98	
644	644	CROSSWALK LINE	LIN FT	\$ 2.60	
644	644	EDGE LINE	MILE	\$ 1,658.27	
644	644	ISLAND MARKING	SQ FT	\$ 2.57	
644	644	LANE ARROW	EACH	\$ 119.81	
644	644	REMOVAL OF PAVEMENT MARKING	FT	\$ 1.56	
644	644	RR SYMBOL MARKING, 96-IN	EACH	\$ 520.90	
644	644	SCHOOL SYMBOL MARKING, 96-IN	EACH	\$ 461.69	
644	644	STOP LINE	LIN FT	\$ 7.29	
644	644	TRANSVERSE LINE	LIN FT	\$ 6.25	
644	644	WORD ON PAVEMENT, 72 IN.	EACH	\$ 135.43	
	651	TOPSOIL STOCKPILED	EACH	\$ 5.83	
	653	TOPSOIL FURNISHED AND PLACED	CU YD	\$ 31.25	
	659	AGRICULTURAL LIMING	TON	\$ 52.51	
	659	COMMERCIAL FERTILIZER	TON	\$ 656.33	REQ'D. ON ALL ESTIMATES
659	659	REPAIR SEEDING AND MULCHING	SQ YD	\$ 1.04	REQ'D. ON ALL ESTIMATES
659	659	SEEDING AND MULCHING	SQ YD	\$ 1.41	REQ'D. ON ALL ESTIMATES < 10,000 SQ YDS

COL	ODOT	ITEM DESCRIPTION	UNIT	PRICE	COMMENTS
659	659	SEEDING AND MULCHING	SQ YD	\$ 0.78	USE ON MAINTENANCE BOND ESTIMATES OR WHEN QUANTITIES ARE > 10,000 SQ YDS
659	659	WATER	M GALLON	\$ 30.63	REQ'D. ON ALL ESTIMATES
660	660	SODDING	SQ YD	\$ 4.83	
667	667	SEEDING AND JUTE MATTING	SQ YD	\$ 3.45	
670	670	DITCH EROSION PROTECTION	SQ YD	\$ 1.61	
670	670	SLOPE EROSION CONTROL	SQ YD	\$ 1.77	
	SPEC	TEMPORARY BARRICADES	EACH	\$ 687.59	
604	SPEC	ORIFICE PLATE	EACH	\$ 312.54	

**ENGINEER'S COST ESTIMATE**

Project: [REDACTED] Date:  
Job No.: [REDACTED] Revised:  
Contact: [REDACTED] Revised:  
Ext: [REDACTED] Revised:

**CONSTRUCTION COST SUMMARY**

---

DEMOLITION / SEDIMENT & EROSION CONTROL	\$	132,778.45
ROADWAY / PAVING	\$	550,818.55
STORM SEWER	\$	213,511.83
<hr/>		
TOTAL ESTIMATE	\$	897,108.83
	Maintenance	
Bonded in the name of <i>Developer</i>	Bond Amount @ 10%	\$ 89,710.88
<i>ATTN: Developer Contact</i>		
<i>Address Line 1</i>	Inspection Deposit @ 8%	\$ 71,768.71
<i>Address Line 2</i>		

Signed:

\_\_\_\_\_  
State of Ohio No.  
Registered Engineer

\_\_\_\_\_  
Date

\_\_\_\_\_  
Delaware County Engineer

\_\_\_\_\_  
Date