CHANGE ORDER FORM

CHANGE ORDER NO. 20

DATE: May 30, 1980

OWNER: Hamilton Township Municipal Authority

ARROWOOD, INCORPORATED
CONSULTING ENGINEERS

PROJECT: Waste Water Collection System
E.P.A. No. C-420916010

CONTRACT NO. Alternate No. 1 - Pipeline

CONTRACTOR: The Gerl Construction Company
Post Office Box 21
Glen Rock, Pennsylvania 17327

THE FOLLOWING CHANGE IN THE CONTRACT LIMITS HAS BEEN REQUESTED BY THE: Owner

DESCRIPTION: Provide improved shoulders, one half, and full roadway paving overlay restoration consisting of 1" of ID-2A bituminous concrete wearing course plus base course where required, in addition to trench restoration as specified by the Contract. The roadways affected by this change order are shown on the following sheets of the Plans:
Contract No. 1, Shts: 2, 3, 4, 5, 6, & 7
Contract No. 2, Shts: 3, 4, 5, 6, 7, 9, 10, 12, 13, 14, 15, 16, 25, 26, 27, & 28
Contract No. 3, Shts: 15, 16, 18, 19, & 20
Contract No. 4, Shts: 8, 9, 14, 15, 16, 22 & 23

UNIT PRICE ITEM CHANGES OR BREAKDOWN OF COST:

ELIGIBLE ITEMS

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	TOTAL UNITS ORIGINAL	TOTAL UNITS REVISED	ORIGINAL TOTAL COST	REVISED TOTAL COST	TOTAL ADDITION	TOTAL DEDUCTION	REMARKS
67	9" Rein.ConcBase	S.Y.	54.90	69.1	171.0	3,793.59	9387.90	5,594.31		+ 101.9 S.Y.
68	5" B.C.B.C.	S.Y.	22.90	4,769.24	5,054.05	109,215.60	115737.75	6,522.15		+ 284.81 S.Y.
69	1-1/2"ID-2A BCBC	S.Y.	9.40	- 69.1	0	649.54	0		649.54	- 69.1 S.Y.
70	1"ID-2A B.C.W.C.	S.Y.	2.55	7,094.9	47,562.18	18,092.00	121283.56	103,191.56		+40,467.28 S.Y.
71	1-1/2"ID-2A BCWC	S.Y.	6.95	4,769.24	1,790.42	33,146.22	12443.42		20,702.80	- 2,978.82 S.Y.
76	Imp.Shld.Replmt.	S.Y.	3.05	9,919.7	4,229.66	30,255.08	12900.46		17,354.62	- 5,690.04 S.Y.
								115,308.02	38,706.96	SUB-TOTALS

	INELIGIBLE	ELIGIBLE	TOTAL
PRESENT TOTAL CONTRACT AMOUNT:	$514,819.19	$4,851,772.50	$5,366,591.69
THIS CHANGE:	+$ 3,721.33	+$ 76,601.06	+$ 80,322.39
REVISED TOTAL CONTRACT AMOUNT:	$518,540.52	$4,928,373.56	$5,446,914.08

$76,601.06 Addition (Eligible)
+$ 3,721.33 Addition (Ineligible)
$80,322.39 Total Addition

TOTAL COST CHANGE: $80,322.39 Addition

UNIT PRICE ITEM CHANGES OR BREAKDOWN OF COST:

INELIGIBLE ITEMS

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	TOTAL UNITS ORIGINAL	TOTAL UNITS REVISED	ORIGINAL TOTAL COST	REVISED TOTAL COST	TOTAL ADDITION	TOTAL DEDUCTION	REMARKS
6	9"Rein.Conc.Base	S.Y.	54.90	168.6	217.0	9,256.14	11,913.30	2,657.16		+ 48.4 S.Y.
7	5" B.C.B.C.	S.Y.	22.88	785.9	1,018.95	17,981.39	23,313.58	5,332.19		+ 233.05 S.Y.
8	1-1/2"ID-2A BCBC	S.Y.	9.40	168.6	0	1,584.84	0		1,584.84	- 168.6 S.Y.
9	1-1/2"ID-2A BCWC	S.Y.	6.95	785.9	405.25	5,462.01	2,816.49		2,645.52	- 380.65 S.Y.
10	1"ID-2A BCWC	S.Y.	2.55	168.6	323.02	429.93	823.70	393.77		+ 154.42 S.Y.
14	Imp.Shld.Replmt.	S.Y.	3.00	327.7	183.89	983.10	551.67		431.43	- 143.81 S.Y.
								8,383.12	4,661.79	SUB-TOTALS

3,721.33 Addition (Ineligible)

TOTAL DAYS CONTRACT TIME ALTERED BY THIS CHANGE: 45

REASON: The additional paving restoration(s) requested by this change order are the minimum requirements of the Pennsylvania Department of Transportation and are in compliance to the Department's 945-B specifications. No restoration requirement issued by the Pennsylvania Department of Transportation represents a betterment of any of the roadways involved.

SUMMARY CONTRACT TIME:

PRESENT CONTRACT TIME: 598 CALENDAR DAYS

PRESENT COMPLETION DATE: August 30, 19 80

THIS CHANGE: 45 CALENDAR DAYS

REVISED CONTRACT TIME: 643 CALENDAR DAYS

REVISED COMPLETION DATE: October 14, 19 80

APPROVED: ARROWOOD, INCORPORATED
CONSULTING ENGINEERS
DATE: 23 July, 1980

[illegible], P.E.

ARROWOOD, INCORPORATED

RESIDENT PROJECT REPRESENTATIVE

APPROVED: The Gerl Construction Company
(CONTRACTOR)

Rodney L. Kurtz V. Pres.
(NAME AND TITLE)

DATE: Aug. 11, 19 80

APPROVED: Hamilton Township Municipal Authority
(OWNER)

Harry M. [illegible] Chairman
(NAME AND TITLE)

DATE: 23 July, 1980

FARMERS HOME ADMINISTRATION APPROVAL

Murray E. Shaw 12-3-80
FmHA REPRESENTATIVE DATE

ENVIRONMENTAL PROTECTION AGENCY APPROVAL

E.P.A. REPRESENTATIVE DATE

PA. DEPARTMENT OF ENVIRONMENTAL RESOURCES APPROVAL

D.E.R. REPRESENTATIVE DATE

COST OR PRICE SUMMARY FORMAT FOR SUBAGREEMENTS UNDER U.S. EPA GRANTS

(See accompanying instructions before completing this form)

Form Approved
OMB No. 158-R0143

PART I - GENERAL

1. GRANTEE Hamilton Township Municipal Authority	2. GRANT NUMBER C-420916010
3. NAME OF CONTRACTOR OR SUBCONTRACTOR The Gerl Construction Company	4. DATE OF PROPOSAL July 26, 1978
5. ADDRESS OF CONTRACTOR OR SUBCONTRACTOR *(Include ZIP code)* RD #2, PO Box #21 Glen Rock, Penna. 17327	6. TYPE OF SERVICE TO BE FURNISHED 1" ID-2A BCWC Pavement Replacement State Road

PART II - COST SUMMARY

7. DIRECT LABOR *(Specify labor categories)*	ESTIMATED HOURS	HOURLY RATE	ESTIMATED COST	TOTALS
Part II - Cost Summary - Not Applicable; Cost for all items to be reinstated in Contract "Alternate No. 1" are at the original unit bid prices for the existing Contract. See attached copy of bid tabulation. Total cost for change order #20 is $103,191.56.		$	$	
DIRECT LABOR TOTAL:				$

8. INDIRECT COSTS *(Specify indirect cost pools)*	RATE	× BASE =	ESTIMATED COST	
		$	$	
INDIRECT COSTS TOTAL:				$

9. OTHER DIRECT COSTS				
a. TRAVEL			ESTIMATED COST	
(1) TRANSPORTATION			$	
(2) PER DIEM			$	
TRAVEL SUBTOTAL:			$	
b. EQUIPMENT, MATERIALS, SUPPLIES *(Specify categories)*	QTY	COST	ESTIMATED COST	
		$	$	
EQUIPMENT SUBTOTAL:				
c. SUBCONTRACTS			ESTIMATED COST	
			$	
SUBCONTRACTS SUBTOTAL:			$	
d. OTHER *(Specify categories)*			ESTIMATED COST	
			$	
OTHER SUBTOTAL:			$	
e. OTHER DIRECT COSTS TOTAL:				$
10. TOTAL ESTIMATED COST				$
11. PROFIT				$
12. TOTAL PRICE				$

PART III - PRICE SUMMARY

13. COMPETITOR'S CATALOG LISTINGS, IN-HOUSE ESTIMATES, PRIOR QUOTES (Indicate basis for price comparison)	MARKET PRICE(S)	PROPOSED PRICE
Part III - Price Summary - Not Applicable:		
Cost for all items to be reinstated in Contract "Alternate No. 1" are at		
the orininal unit Bid prices for the existing Contract.		
		$

PART IV - CERTIFICATIONS

14. CONTRACTOR

14a. HAS A FEDERAL AGENCY OR A FEDERALLY CERTIFIED STATE OR LOCAL AGENCY PERFORMED ANY REVIEW OF YOUR ACCOUNTS OR RECORDS IN CONNECTION WITH ANY OTHER FEDERAL GRANT OR CONTRACT WITHIN THE PAST TWELVE MONTHS?

[ ] YES [ ] NO (If "Yes" give name address and telephone number of reviewing office)

14b. THIS SUMMARY CONFORMS WITH THE FOLLOWING COST PRINCIPLES

14c.

This proposal is submitted for use in connection with and in response to (1) Change Order #20 _____. This is to certify to the best of my knowledge and belief that the cost and pricing data summarized herein are complete, current, and accurate as of (2) August 11, 1980 and that a financial management capability exists to fully and accurately account for the financial transactions under this project. I further certify that I understand that the subagreement price may be subject to downward renegotiation and/or recoupment where the above cost and pricing data have been determined, as a result of audit, not to have been complete, current and accurate as of the date above.

(3) August 11, 1980
DATE OF EXECUTION

Rodney L Ruhl
SIGNATURE OF PROPOSER

Vice President
TITLE OF PROPOSER

14. GRANTEE REVIEWER

I certify that I have reviewed the cost/price summary set forth herein and the proposed costs/price appear acceptable for subagreement award.

DATE OF EXECUTION

SIGNATURE OF REVIEWER

TITLE OF REVIEWER

15. EPA REVIEWER (If applicable)

DATE OF EXECUTION

SIGNATURE OF REVIEWER

TITLE OF REVIEWER

CONTRACT NO. ALTERNATE NO. 1
PIPELINE CONSTRUCTION – SHT. 5 OF 6

GERL CONST. CO.
P.O. BOX 21
GLEN ROCK, PA. 17327

ITEM NO.	DESCRIPTION	EST. QUANTITY	UNIT	TOTAL
	ELIGIBLE ITEMS			
1	8" G.S., CL. 2400, 0-6'	42664 L.F.	15.45	659158.60
2	8" G.S., CL. 2400, 6'-8'	27565 L.F.	17.41	479906.65
3	8" G.S., CL. 2400, 8'-10'	14588 L.F.	19.84	289425.92
4	8" G.S., CL. 2400, 10'-12'	7206 L.F.	23.91	172295.46
5	8" G.S., CL. 2400, 12-14'	4630 L.F.	27.17	125797.10
6	8" G.S., CL. 2400, 14'-16'	2440 L.F.	32.05	78202.00
7	8" G.S., CL. 2400, 16'-18'	1322 L.F.	35.55	46997.10
8	8" G.S., CL. 2400, 18'-20'	11 L.F.	46.71	513.81
9	8" G.S., CL. 3300, 0-6'	569 L.F.	15.45	8791.05
10	8" G.S., CL. 3300, 6-8'	10 L.F.	17.41	174.10
11	8" G.S., CL. 3300, 8'-10'	10 L.F.	19.84	198.40
12	8" G.S., CL. 3300, 10-12'	9 L.F.	23.91	215.19
13	8" G.S., CL. 3300, 12'-14'	107 L.F.	27.17	2907.19
14	8" G.S., CL. 3300, 14-16'	126 L.F.	32.05	4038.30
15	8" G.S., CL. 3300, 18'-20'	1341 L.F.	46.71	62638.[illegible]
16	8" G.S., CL. 3300, 20'-22'	300 L.F.	58.61	17583.00
17	8" G.S., CL. 3300, 22'-24'	61 L.F.	72.77	4438.97
18	8" G.S., CL. 3300, 24-26'	14 L.F.	85.80	1201.20
19	10" G.S., CL. 2400, 0'-6'	3151 L.F.	16.98	53503.98
20	10" G.S., CL. 2400, 6'-8'	2858 L.F.	19.13	54673.54
21	10" G.S., CL. 2400, 8'-10'	1601 L.F.	21.06	33717.06
22	10" G.S., CL. 2400, 10'-12'	527 L.F.	26.61	14023.47
23	10" G.S., CL. 3300, 12-14'	343 L.F.	30.56	10482.08
24	10" G.S., CL. 3300, 14-16'	228 L.F.	36.77	8383.56
25	12" G.S., CL. 2400, 0-6'	2865 L.F.	18.70	53947.50
26	12" G.S., CL. 2400, 6'-8'	3137 L.F.	21.06	66065.22
27	12" G.S., CL. 2400, 8'-10'	3650 L.F.	23.23	84787.50
28	12" G.S., CL. 2400, 10'-12'	21 L.F.	27.16	587.16
29	12" G.S., CL. 3300, 0-6'	296 L.F.	18.70	5535.20

32	12" G.S. CL 3300, 12'-14'	855	L.F.	31.42	27[illegible]736
33	12" G.S. CL 3300, 14'-16'	551	L.F.	38.13	21[illegible]463
34	12" G.S. CL. 3300, 16'-18'	429	L.F.	42.77	18345.33
35	12" G.S., CL 4000, 0'-6'	276	L.F.	18.70	5161.20
36	12" G.S., CL. 4000, 6'-8'	23	L.F.	21.06	484.38
37	12" G.S., CL. 4000, 12'-14'	41	L.F.	31.42	1288.72
38	12" G.S., CL 4000, 14'-16'	68	L.F.	38.13	2592.84
39	12" G.S., CL. 4000, 16'-18'	95	L.F.	42.77	4063.15
40	12" G.S., CL. 4000, 18'-20'	43	L.F.	53.64	2306.52
41	12" G.S., CL. 4000, 20'-22'	40	L.F.	61.62	2464.80
42	12" G.S., CL. 4000, 22'-24'	79	L.F.	75.35	5952.65
43	14" G.S., CL. 2400, 0'-6'	125	L.F.	20.83	2603.75
44	14" G.S., CL. 2400, 6'-8'	643	L.F.	23.25	14949.75
45	14" G.S., CL 2400, 8'-10'	690	L.F.	25.00	17250.00
46	14" G.S., CL. 3300, 10'-12'	727	L.F.	31.33	22776.91
47	14" G.S., CL. 3300, 12'-14'	541	L.F.	36.21	19589.61
48	14" G.S., CL 3300, 14'-16'	332	L.F.	39.71	13183.72
49	14" G.S., CL 4000, 16'-18'	80	L.F.	44.36	3548.80
50	12" G.S., D.I. C.L., 0'-6'	28	L.F.	35.87	1004.36
51	12" G.S., D.I. C.L., INSTALLED ON PIERS	29	L.F.	34.94	1013.26
52	14" G.S., D.I. C.L., 6-8'	38	L.F.	42.21	1603.98
53	PRECAST M.H., 0'-6' C.I.P. WITH B.F.&C.	509	EA	732.00	372588.00
54	M.H. EXTRA DEPTH OVER 6' DEEP C.I.P.	1205.6	V.F.	31.40	37855.84
55	DROP M.H. CONNECTIONS, C.I.P.	294.49	V.F.	128.10	37724.17
56	ADDIT. CHARGE FOR WATERTIGHT M.H. F.&C.	29	EA.	67.10	1945.90
57	8" CLEAN OUT, C.I.P.	10.9	V.F.	97.60	1063.84
58	6" STUB OUT @ M.H.	4	EA	40.25	161.00
59	8" STUB OUT @ M.H.	35	EA.	42.70	1494.50
60	10" STUB OUT @ M.H.	2	EA	55.00	110.00
61	CONNECTION TO EXIST. M.H.	5	EA.	1037.00	5185.00
62	8" x 4" WYES, C.I.P.	757	EA	32.44	24535.50
63	8" x 6" WYES, C.I.P.	3	EA.	41.50	124.50
64	10" x 4" WYES, C.I.P.	12	EA	46.50	558.00
65	12" x 4" WYES, C.I.P.	90	EA	52.50	4725.00
66	14" x 6" WYES, C.I.P.	1	EA	80.00	80.00
67	9" REINF CONC BASE COURSE ST RD.	691	SY	54.40	3743.59
68	5" REINF CONC BASE COURSE ST RD.	4702.1	SY	[illegible]	[illegible]41

69	1½" ID-2A BC BC PAV REPLMT, ST RD.	64.1	SY	7.40	641.34
70	1" ID-2A BC WC. PAV. REPLMT, ST. RD.	7594.1	SY	2.55	19369.00
71	1½" ID-2A BC. WC, ST RD	4762.1	SY	6.95	33102.16
72	2" BIT MATERIAL TEMP PAVING, ST RD	4832.0	SY	4.40	21260.80
73	2¾" CP-2 MATL & 6" STONE PAV REP. TWP RD	10595.0	SY	10.30	109128.50
74	2¾" CP-2 MATL. & 6" STONE TEMP PAV, TWP RD	10595.0	SY	0.01	105.95
75	6" 2-RC STONE TWP RD REPLMT.	98.6	SY	2.75	271.15
76	IMP SHOULDER REPLMT. ST RD.	9919.7	SY	3.05	30255.08
77	RELOCATE 3/4" WATER LINE	156	LF	7.90	1232.40
78	4" B.C. 6" STONE BASE PAV DRWY. REPAV. C.I.P	1658.1	SY	12.20	20228.82
79	6" 2-RC STONE DRIVEWAY REPLMT.	544.7	SY	4.27	2325.87
80	4" CONC SIDEWALK REPLMT. C.I.P.	5.4	SY	36.60	197.64
81	2¾" CP-2 MATL. & 6" STONE PAV. @ METER STA CIP	227.5	SY	10.30	2343.25
82	2-RC STONE PIPELINE BEDDING FRVD & INSTL	20955.1	CY	8.26	171511.62
83	2-RC STONE SELECT MATL. BK.FL. PRVD & INSTL.	24001.6	CY	13.65	327621.84
84	TOPSOIL, PROVIDE & INSTALL	83367.6	SY	1.00	83367.60
85	FERTILIZER, MULCH & SEEDING, FRVD & INSTL.	83367.6	SY	0.25	20841.90
86	8" MAIN, TYPE I, 6" CONC ENCASEMENT	462	LF	30.50	14091.00
87	10" MAIN, TYPE I, 6" CONC. ENCASEMENT	150	LF	34.16	5124.00
88	14" MAIN, TYPE I, 6" CONC. ENCASEMENT	10	LF	42.70	427.00
89	8" MAIN - 12" CONC. ENCASEMENT	40	LF	54.10	2164.00
90	COMPACTED SELECT FILL C.I.P.	2960.5	CY	4.00	11842.00
91	UNCOMPACTED SELECT FILL C.I.P.	55	CY	1.25	68.[illegible]
92	18" C.M.P., 14 GA. GALVANIZED, C.I.P	30	LF	36.60	1098.[illegible]
93	18" C.M.P., 12 GA. GALVANIZED, C.I.P	50	LF	36.60	1830.00
94	24" C.M.P., 14 GA., C.I.P.	42	LF	40.25	1690.50
95	36" C.M.P. 12 GA., C.I.P.	55	LF	36.60	2013.00
96	CONC PIERS SHT NO. 27	2	EA	2200.00	4400.00
97	6" F.M. IN G.S. TRENCH C.I.P	7535	LF	12.00	90420.00
98	6" F.M. IN NEW TRENCH C.I.P	500	LF	15.26	7630.00
99	8" F.M. IN G.S. TRENCH C.I.P.	6098	LF	13.82	84274.36
100	8" F.M. IN NEW TRENCH C.I.P.	710	LF	17.34	12314.40
101	10" F.M. IN G.S. TRENCH C.I.P	14451	LF	15.63	225915.33
102	10" F.M. IN NEW TRENCH C.I.P	3253	LF	19.75	64[illegible]
103	AIR RELEASE VALVE CHAMBER, 6" F.M. COMP.	3	EA	1200.00	3600.00

106	REMOVE & REPLACE CATCH BASIN	1	EA	[illegible]	[illegible]
107	REMOVE & REPLACE 8" UNDERDRAIN	105	LF	10.00	1050.00
108	MISC. MASS CONC. FOR G.S.	40	CY	85.40	3416.00
109	SHEETING & SHORING, LEFT IN PLACE	8	MBFM	0.01	0.08
110	CONSTRUCTION STAKE OUT	133621	LF	0.30	40086.30
111	TV INSPECTION OF G.S. LINES	50000	LF	0.30	15000.00
111A	METER STATION, C.I.P.	LUMP SUM		14233.30	14233.30
112	REMOVE CONFLICTING BURIED FUEL TANKS	LUMP SUM		1464.00	1464.00
113	MISC. UTILITY RELOCATION, COMP:	———		———	———
	a. 1/2"-1" COPPER WATER SERVICE LINES	600	LF	5.50	3300.00
	b. 1"-2" COPPER WATER SERVICE LINES	600	LF	9.00	5400.00
	c. 1"-2" PVC WATER LINES	600	LF	8.00	4800.00
	d. 4" PVC WATER LINES	400	LF	17.00	6800.00
	e. 6" PVC WATER LINES	400	LF	19.00	7600.00
	f. 8" A.C. WATER LINES	200	LF	21.00	4200.00
	TYPE OF PIPING SELECTED: GRAVITY:			PVC & AC	
	PRESSURE:			PVC & AC	
	TOTAL BID PRICE				(4665524.12) 4504488.34

INELIGIBLE ITEMS

1	4" SERVICE LATERALS CIP	16595	LF	18.00	298710.00
2	6" SERVICE LATERALS CIP	70	LF	18.46	1292.20
3	SERVICE LATERAL DROP CONNECTIONS	1263.5	VF	43.37	54778.00
4	2-RC STONE PIPELINE BEDDING PRVD & INSTL	1977.4	CY	8.17	16155.36
5	2-RC STONE SELECT MATL. BK FL PRVD & INSTL.	1442.0	CY	13.66	19697.72
6	9" REINF. CONC. BASE COURSE, ST RD.	165.6	SY	54.90	9256.14
7	5" BIT CONC BASE COURSE, ST RD	776.9	SY	22.88	17821.23
8	1½" ID-2A BC BC. PAV. REPLMT., ST. RD	168.6	SY	9.40	1584.04
9	1½ ID-2A BC. WC. PAV REPLMT., ST. RD.	776.9	SY	6.95	5413.36
10	1" ID-2A BC. WC. PAV REPLMT., ST. RD	168.6	SY	2.55	429.93
11	2" BIT MATERIAL TEMP PAVING, ST. RD	947.5	SY	4.40	4169.00
11A	2¾" CP-2 MATL & 6" STONE TEMP PAV. TWP RD	1432.4	SY	0.01	14.32
12	2¾" CP-2 MATL & 6" STONE PAV REPLMT TWP RD	1432.4	SY	10.31	14768.04
13	6" 2-RC STONE RD REPLMT., TWP. RD.	12.4	SY	2.75	34.10
14	IMP SHOULDER REPLMT. ST. RD	326.6	SY	3.00	979.80
15	4" BC. 6" STONE BASE PAV. DRWY REPAV CIP	76.7	SY	12.20	935.74
16	6" 2-RC STONE DRIVEWAY REPLMT.	29.0	SY	4.27	123.83
17	TOPSOIL, PROVIDE & INSTALL	6973.7	SY	0.98	6834.23
18	FERTILIZER, MULCH & SEEDING, PRVD. & INSTL	6973.7	SY	0.25	2243.42
19	PENNDOT INSPECTION	1200	MAN DAYS	0.01	12.00
	TOTAL BID PRICE				457733.26