

**CITY OF TERRE HAUTE, INDIANA
 PHASE 1 PROJECT 1-3 IMPROVEMENTS AT MAIN LIFT STATION PROJECT
 ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST**



Base Bid

Item #	Description	Qty	Unit	Total Price
1	High Rate Clarification (HRC) System	1	L.S.	\$ 9,064,200.00
5% Contingency				\$ 453,210.00
TOTAL				\$ 9,517,410.00

Mandatory Alternate Bid Items

Item #	Description	Qty	Unit	Total Price
MA-1	Excavate Entire Hill vs. Partial (To Accommodate Future Lift Station)	1	L.S.	\$ 318,500.00
MA-2	Excavation for Alternate Drive	1	L.S.	\$ 59,500.00
MA-3	COMAG	1	L.S.	\$ (535,100.00)
MA-4	Structural Foundation and Walls for Future Tanks	1	L.S.	\$ 116,900.00
MA-5	Alternate Drive Location (Contingent on Purchase of Land)	1	L.S.	\$ (41,600.00)

***Mandatory Alternate Bid Item Costs Include a 5% Contingency**

City of Terre Haute, Indiana - Project 1-3 Improvements at Main Lift Station Project
Summary for Estimate of Probable Construction Costs

Bid Item	Total Cost	Bid Amount
Base Bid - Actiflow Treatment Facility	\$ 9,517,456	\$ 9,517,500
Mandatory Alternate No. 1 - Removal of All Paper Product from Treatment Plant Site	\$ 318,462	\$ 318,500
Mandatory Alternate No. 2 - Alternate Access Road to Treatment Facility (Earthwork)	\$ 59,510	\$ 59,500
Mandatory Alternate No. 3 - Comag Treatment Facility	\$ (535,109)	\$ (535,100)
Mandatory Alternate No. 4 - Actiflow Treatment Facility Future Tanks	\$ 116,937	\$ 116,900
Mandatory Alternate No. 5 - Alternate Access Road to Treatment Facility (Paving)	\$ (41,616)	\$ (41,600)

City of Terre Haute, Indiana

Phase 1 Project 1-3 Improvements at Main Lift Station Project

Cost Estimate - Base Bid

City of Terre Haute, Indiana - Project 1-3 Improvements at Main Lift Station Project

Estimate of Probable Construction Costs - Base Bid (Actiflow)

Division	Description	Labor and Equipment Cost	Material / Subcontractor	Total Cost	Notes
2	Site Construction / Civil Work	\$ 1,370,890.00	\$ 573,640.00	\$ 1,944,530.00	
2	Demolition	\$ 9,341.00	\$ 5,400.00	\$ 14,741.00	
3	Concrete		\$ 643,450.00	\$ 643,450.00	
4	Masonry	\$ 2,466.00	\$ 108,480.00	\$ 110,946.00	
5	Metals	\$ 11,297.00	\$ 38,595.00	\$ 49,892.00	
6	Wood and Plastics	\$ 14,724.00	\$ 22,595.00	\$ 37,319.00	
7	Thermal and Moisture Protection	\$ -	\$ 14,451.00	\$ 14,451.00	
8	Doors and Windows	\$ -	\$ 40,500.00	\$ 40,500.00	
9	Finishes	\$ -	\$ 51,800.00	\$ 51,800.00	
10	Specialties	\$ 1,275.00	\$ 1,500.00	\$ 2,775.00	
11	Equipment	\$ 47,554.00	\$ 2,587,645.00	\$ 2,635,199.00	
12	Furnishings	\$ -	\$ -	\$ -	
13	Special Construction / I&C	\$ -	\$ 125,000.00	\$ 125,000.00	
14	Conveying Systems	\$ -	\$ -	\$ -	
15	Mechanical - Piping	\$ 217,159.00	\$ 637,673.00	\$ 854,832.00	
15	Mechanical - HVAC	\$ -	\$ 35,000.00	\$ 35,000.00	
16	Electrical	\$ 1,650.00	\$ 609,000.00	\$ 610,650.00	
Total Direct Cost				\$ 7,171,085	

Mobilization / Demobilization	\$ 38,036
Small Tools	\$ 71,711
Medium Tools	\$ 35,855
Contractor Supervision	\$ 364,875
Total Project Direct Cost	\$ 7,681,562

See Supv. Analysis Tab

Contractors OH & Profit - 18%	\$ 1,382,681
Total Bid	\$ 9,064,243
Lump Sum Price	\$ 9,064,243

Contingency - 5% **\$ 453,212**

Total Construction Cost with Contingency	\$ 9,517,456
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PROJECT: Terre Haute Actiflow Treatment
Mobilization / Demobilization

PG _____ OF _____

FAUSERS\ \ \ -EQ

SHEET	DESCRIPTION	QTY	UN	@	MTL/SUB TOTAL	UNIT LABOR CHECK	TOTAL LABOR CHECK	FORE	CARP	LAB	GROVE CRANE	CAT 420	HOE RAM	330	LOW BOY	
<u>Mobilization</u>																
	Jobsite Trailer	2	Trips		0	1079.5	2,159			1.0	1.0				1.5	
	Tool Trailer	1	Trips		0	1424.0	1,424			1.0	1.0				0.8	
	Excavator	6	Trips		0	735.0	4,410								4.5	
	Dozer	6	Trips		0	735.0	4,410								4.5	
	Loader/Backhoe	2	Trips		0	735.0	1,470								1.5	
	Crane	1	Trips		0	735.0	735								0.8	
	Medium Tools	4	Trips		0	735.0	2,940								3.0	
	Formwork	2	Trips		0	735.0	1,470								1.5	
<u>Demobilization</u>																
	Jobsite Trailer	2	Trips		0	1079.5	2,159			1.0	1.0				1.5	
	Tool Trailer	1	Trips		0	1424.0	1,424			1.0	1.0				0.8	
	Excavator	6	Trips		0	735.0	4,410								4.5	
	Dozer	6	Trips		0	735.0	4,410								4.5	
	Loader/Backhoe	2	Trips		0	735.0	1,470								1.5	
	Crane	1	Trips		0	735.0	735								0.8	
	Medium Tools	4	Trips		0	735.0	2,940								3.0	
	Formwork	2	Trips		0	735.0	1,470								1.5	
LABOR CHECK:						38,036		0.0	4.0	4.0	0.0	0.0	0.0	0.0	36.0	
re Haute Actiflow Treatment									380	339	350	980	708	1820	860	980
					LAB/EQ	MTL/SUB	TOTAL									
					-----	-----	-----									
					44 MANDAYS	0	38,036	0	1,356	1,400	0	0	0	0	35,280	
					=====	=====	=====									
											OPERATOR		420			
											OILER		323			

City of Terre Haute, Indiana - Project 1-3 Improvements at Main Lift Station Project

Contractor Supervision Analysis

Project Duration 14 Months / 60 Months

Position	Buyout	Submittals	Preplanning	Construction	Closeout	Total Weeks	Weekly Rate	Extension
Superintendent			2	60		62	\$2,800	\$173,600
Project Manager	1		1	15		17	\$2,400	\$40,800
Project Engineer	4	8	2	15	1	30	\$1,800	\$54,000
Field Engineer			2	45		47	\$1,600	\$75,200
Project Coordinator	2	4	0.5	8	4	18.5	\$1,150	\$21,275
								\$364,875

PROJECT: Project 1-3 Improvements at Main Lift Station Site
Division 2 - Demolition
Base Bid

SHEET	DESCRIPTION	QTY	UN	@	MTL/SUB TOTAL	UNIT		FORE	CARP	LAB	GROVE CRANE	CAT 420	HOE RAM	330	DUMP TRUCK
						LABOR CHECK	TOTAL LABOR CHECK								
					0	0.0	0								
PS7	Pipe S-1 - 36" CMP TO DITCH - 12' Deep	480	LF		0	4.9	2,340			3.0					1.5
PS7	Pipe S-3 - 24" CMP - 12' Deep	40	LF		0	9.8	390			0.5					0.3
PS7	Pipe W-1 - 36" RCP - Removed During Site Undercut	560	LF		0	0.9	529			0.5		0.5			
PS7	Pipe W-2 - 15" PVC - Removed During Site Undercut	480	LF		0	1.1	529			0.5		0.5			
PS7	Pipe W-3 - 24" PVC - Removed During Site Undercut	480	LF		0	1.1	529			0.5		0.5			
PS7	Manhole 4007 - 10' Deep	1	EA		0	352.0	352			0.5		0.3			
PS7	Manhole 4000 - 10' Deep	1	EA		0	352.0	352			0.5		0.3			
PS7	Pipe W-2 - 15" PVC Manhole #4007 to Ditch - 10' Deep	240	LF		0	6.5	1,560			2.0					1.0
PS7	Pipe W-3 - 24" PVC Manhole #4000 to Ditch - 10.5' Deep	240	LF		0	6.5	1,560			2.0					1.0
	Dumpsters	3	EA	500.00	1,500	400.0	1,200								2.0
	Granular Fill	650	TONS	6.00	3,900	0.0	0								
					0	0.0	0								
					0	0.0	0								
					0	0.0	0								
					0	0.0	0								
					0	0.0	0								
					0	0.0	0								
LABOR CHECK:						9,341		0.0	0.0	10.0	0.0	2.0	0.0	3.8	2.0
								500	385	350	1100	708	1820	860	600
		LAB/EQ			MTL/SUB		TOTAL								
		-----			-----		-----	0	0	3,500	0	1,416	0	3,225	1,200
18	MANDAYS	9,341			5,400		14,741								
		=====			=====		=====								
											OPERATOR		420		
											OILER		323		

SITE WORK

Terre Haute Project 1-3 Improvements at Main Lift Station Project				FAUSERS\														
Division 2 - BASE BID				MTL/SUB	UNIT	TOTAL	TOTAL							SHEEP FT				
DESCRIPTION	QUAN.	UN.	@	TOTAL	LABOR	LABOR	EQUIP	LABOR	LAB	330	416	DOZERS	DOZERS	ROLLER	DMP	PROD/		
					CHECK	CHECK	CHECK	FMN				D-4G	D-7	CS433	TRK	DAY		
STRUCTURAL EXCAV. & BKFFILL	INPUT	BELOW																
STR. EXCAV., MAJOR	219,475	CY	-		2.02	235,437	207,504	199.5			199.5		199.5					1100
STR. BKFL., MAJOR	189,537	CY	-		3.68	435,934	260,802	189.5	379.1				189.5	189.5				1000
BORROW REQ'D	-	CY	-		-													
SPOIL TO HAUL	50,656	CY	-		3.53		178,785									298.0		170
MAINT. SPOIL PILE	50,656	CY	-		0.20	4,255	6,079						10.1					5000
GRANULAR MATL	31,076	TON	6.00	186,456	-													
STR. EXCAVS., MINOR		CY	-		-													300
STR. BKFFILL, MINOR		CY	-		-													150
UNDRSLB DRNG COURSE		TON	8.40		-													1000
LEAN CONCRETE FILL		CY	45.00		-													
DISPOSAL FEE	30,326	CY	3.00	90,977	-													
CLEAR AND GRUB	-	ACRE	-		-													
STRIP TOPSOIL		CY	-		-	2,100	1,240					5.0						500
REPLACE TOPSOIL		CY	-		-	2,100	1,240					5.0						300
MASS CUTS	-	CY	-		-													700
MASS FILL	-	CY	-	XXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
(IF 0, GIVE REASON)	SHRINK @ 10.00%	XXXXXX	XXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
TOT FILL W/ SHRINK	-	CY	-		-													
BORROW REQUIRED	-	CY	-		-													
ROUGH GRADE SITE	-	SY	-		-	3,080	992		4.0			4.0						
FINE GRADE SITE	-	SY	-		-	1,540	496		2.0			2.0						2000
DRIVES, ALL	INPUT	BELOW																
DRIVES-GRANULAR	1,800	SF	-		-													
DEPTH IN INCHES	8	IN	-		-													
TONNAGE	90	TON	8.00	720	5.09	347	112		0.5			0.5						200
FINE GRADE	1,800	SF	-		-													
DRIVES, ASPHALT	5,920	SY	-		-													
DEPTH OF ASPHALT	8	IN	-		-													
DRIVES, ASPHALT	2,605	TON	56.00	145,869	-													
8" SUBBASE (-INPUT DEPTH)	2,434	TON	8.00	19,470	2.55	4,685	1,509		6.1			6.1						400
FINE GRD SUBGRADE	53,280	SF	-		0.12	4,685	1,509		6.1			6.1						400
FINE GRADE SUBBASE	53,280	SF	-		-													
LAYOUT / STAKING	-	LS	-		-													
DEWATERING:	1	LS	-		-													
DRILL WELLS	8	EA	1,500.00	12,000	-													
EQUIP RENTAL	8	MO	800.00	6,400	-													
DISCHG HOSE/PIPING	900	LF	3.00	2,700	4.86	3,080	1,296		4.0	2.0	2.0							
MOVING PUMPS	-	EA	-		-													
OPERATOR FOR PUMPS	-	MO	-		-													
MAINTAIN DWTR. SYSTEM	8.00	MO	-		350.00	2,800			8.0									
ELECT HOOKUP	1	W/ELECTRIC	3,500.00	3,500	-													
POWER USAGE	8	HP-MO	500.000	4,000	-													
POWER COST	4,401	KWH	0.065	286	-													
PULL WELLS	8	EA	-		151.25	770	440		1.0	1.0								
REMOVE PIPING	900	LF	-		1.48	1,120	208		2.0		1.0							
SHEETING/SHORING:																		
PZ-27 SHEETING	-	SF	-		-													
W/ 5% WASTE =	INCLUDED IN TONNAGE PRICE				-													
1st USE	-	TON	220.00		-													
2nd USE	-	TON	60.00		-													

Terre Haute Project 1-3 Improvements at Main Lift Station Project

Earthwork Quantities - Base Bid

Existing Grade to Proposed Excavation - Paper Product at Plant Site

Cut Volume	30,517 CY	
Fill Volume	192 CY	
	30,326 CY	Export Volume

Proposed Excavation to Proposed Grade

Cut Volume	1,415 CY	
Fill Volume	22,132 CY	
	20,717 CY	Import Volume

Granular Fill		
Import Quantity	20,717 CY	
75%	15,538 CY	
Conversion	2	
Import Total	31,076 TONS	Import Tonnage

Base Bid - Ponds

Existing Grade to Proposed Excavation - Proposed Ponds

Cut Volume	187,543 CY	
Fill Volume	167,213 CY	
	20,330 CY	Export Volume

Totals

Excavation	219,475 CY
Backfill	189,537 CY
Export Volume	50,656 CY
Granular Fill	31,076 TONS

PROJECT **Project 1-3 Improvements at Main Lift Station Site** PG _____ OF _____ FAUSERS________-EQ
 Division 3 - Concrete
 Base Bid

SHEET	DESCRIPTION	QTY	UN	@	MTL/SUB TOTAL	UNIT LABOR CHECK	TOTAL LABOR CHECK	FORE	CARP	LAB	GROVE CRANE	CAT 420	HOE RAM	330	DUMP TRUCK
					0	0.0	0								
	Actiflow Structure - Concrete	1,514	CY	425.00	643,450	0.0	0								
					0	0.0	0								
					0	0.0	0								
					0	0.0	0								
					0	0.0	0								
					0	0.0	0								
					0	0.0	0								
					0	0.0	0								
					0	0.0	0								
					0	0.0	0								
					0	0.0	0								

LABOR CHECK:								0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						500	385	350	1100	708	1820	860	600			
		LAB/EQ			MTL/SUB			TOTAL								
-	MANDAYS	0			643,450			643,450	0	0	0	0	0	0	0	0
											OPERATOR	420				
											OILER	323				

PROJECT				Project 1-3 Improvements at Main Lift Station Site				PG	OF	FAUSERS\ \ -EQ						
Division 5 - Metals				Base Bid				MTL/SUB		UNIT	TOTAL	GROVE		CAT	HOE	DUMP
SHEET	DESCRIPTION	QTY	UN	@	TOTAL	LABOR	LABOR	FORE	CARP	LAB	CRANE	420	RAM	TRUCK		
						CHECK	CHECK									
P2-1	Handrail at NE Walkway	15	LF	35.00	525	14.7	220	0.3	0.3							
P2-1	NE Building Stairs	1	LS	4,500.00	4,500	3210.0	3,210	2.0	2.0	1.0	1.0					
P2-1	Handrail Around Opening	26	LF	35.00	910	16.9	440	0.5	0.5							
P2-1	Handrail At Settling Tank	50	LF	35.00	1,750	17.6	880	1.0	1.0							
					0	0.0	0									
S2-2	Handrail at UV Structure	124	LF	35.00	4,340	23.5	2,908	2.5	2.5				1.0			
S2-2	Grating	112	SF	30.00	3,360	11.8	1,320	1.5	1.5							
					0	0.0	0									
P2-13	Covering over Tanks	1	LS	17,500.00	17,500	0.0	0									
P2-13	Pipe Bollards	2	EA	125.00	250	389.5	779	0.5		0.5			0.5			
					0	0.0	0									
P2-4	Masonry Lintels	1	LS	3,500.00	3,500	0.0	0									
					0	0.0	0									
P3-1	Effluent Headwall Handrail	35	LF	35.00	1,225	25.1	880	1.0	1.0							
P4-1	Storm Sewer Outfall Handrail	7	LF	35.00	245	31.4	220	0.3	0.3							
P4-2	Storm Sewer Outfall to Lagoon	7	LF	35.00	245	31.4	220	0.3	0.3							
P4-3	Storm Sewer Outfall in Lagoon	7	LF	35.00	245	31.4	220	0.3	0.3							
					0	0.0	0									
					0	0.0	0									
LABOR CHECK:						11,297		10.0	9.5	1.5	1.0	1.5	0.0	0.0		
								500	380	350	1100	708	1820	600		
		LAB/EQ		MTL/SUB		TOTAL		-----		-----		-----		-----		
24	MANDAYS					11,297		5,000	3,610	525	1,100	1,062	0	0		
		=====		=====		=====										
												OPERATOR		420		
												OILER		323		

PROJECT Project 1-3 Improvements at Main Lift Station Site					PG _____	OF _____	FAUSERS________-EQ							
Division 7 - Thermal and Moisture Protection														
Base Bid														
SHEET	DESCRIPTION	QTY	UN	@	MTL/SUB TOTAL	UNIT LABOR CHECK	TOTAL LABOR CHECK	FORE	CARP	LAB	GROVE CRANE	CAT 420	HOE RAM	DUMP TRUCK
S2-4	Metal Roofing	5,400 SF		2.50	13,500	0.0	0							
S2-4	Gutter Installation	317 LF		3.00	951	0.0	0							
					0	0.0	0							
					0	0.0	0							
					0	0.0	0							
					0	0.0	0							
					0	0.0	0							
					0	0.0	0							
					0	0.0	0							
					0	0.0	0							
					0	0.0	0							
					0	0.0	0							
					0	0.0	0							
					0	0.0	0							
					0	0.0	0							
					0	0.0	0							
LABOR CHECK:							0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								500	380	350	980	708	1820	600
		LAB/EQ			MTL/SUB		TOTAL	-----						
-	MANDAYS	0.00			14,451		14,451	0	0	0	0	0	0	0
		=====			=====		=====							
											OPERATOR	420		
											OILER	323		

PROJECT	Project 1-3 Improvements at Main Lift Station Site				PG _____	OF _____	FAUSERS\ _ -EQ							
Division 11 - Equipment Installation														
Base Bid														
SHEET	DESCRIPTION	QTY	UN	@	MTL/SUB TOTAL	UNIT LABOR CHECK	TOTAL LABOR CHECK	FORE	CARP	LAB	GROVE CRANE	CAT 420	HOE RAM	DUMP TRUCK
					0	0.0	0							
	Actiflow Equipment	1	LS	1,975,000.00	1,975,000	0.0	0							
	Chemical Feed Equipment	1	LS	210,000.00	210,000	0.0	0							
					0	0.0	0							
P2-8	<u>Settling Tank</u>				0	0.0	0							
P2-8	Install Clarification Equipment	1	EA	incl	0	4791.0	4,791	1.5		3.0	1.5	2.0		
P2-8	Grout Tank Bottom	20	CY	110.00	2,200	112.5	2,250	1.0		2.0	1.0			
P2-8	Install Effluent Troughs	4	EA	incl	0	562.5	2,250	1.0		2.0	1.0			
P2-9	Install Access Bridge	1	EA	incl	0	1125.0	1,125	0.5		1.0	0.5			
P2-9	Install Handrail	34	LF	incl	0	16.9	575	0.5		1.0				
					0	0.0	0							
					0	0.0	0							
P2-7	<u>Maturation Tank</u>				0	0.0	0							
	Erect Draft Tube	1	EA	incl	0	2825.0	2,825	1.5		3.0	1.0			
	Install Bypass Baffle	2	EA	incl	0	1125.0	2,250	1.0		2.0	1.0			
	Install Draft Tube, Mixer, and Motor	1	EA	incl	0	2250.0	2,250	1.0		2.0	1.0			
					0	0.0	0							
					0	0.0	0							
P2-6	<u>Coagulation Tank</u>				0	0.0	0							
	Install Baffle Plates	4	EA	incl	0	562.5	2,250	1.0		2.0	1.0			
	Install Mixer and Motor	1	EA	incl	0	2250.0	2,250	1.0		2.0	1.0			
					0	0.0	0							
					0	0.0	0							
P2-2	Install Sand Recirculation Pumps				0	0.0	0							
	Install Pumps	3	EA	incl	0	575.0	1,725	1.5		3.0				
	Grout Pump Bases	3	EA	35.00	105	233.3	700			2.0				
	Anchor Bolts	12	EA	15.00	180	0.0	0							
					0	0.0	0							
					0	0.0	0							
P2-1	Hydrocyclones				0	0.0	0							
P2-7	Install Hydrocyclones	3	EA	incl	0	941.7	2,825	1.5		3.0	1.0			
P2-7	Grout Bases	3	EA	35.00	105	233.3	700			2.0				
	Anchor Bolts	12	EA	15.00	180	0.0	0							
					0	0.0	0							
					0	0.0	0							
					0	0.0	0							
	Polymer Makeup Unit				0	0.0	0							
P2-1	Install Mixing and Aging Tank	1	EA	incl	0	950.0	950	0.5		0.5	0.5			
P2-1	Install Polymer Make-up Unit	1	EA	incl	0	950.0	950	0.5		0.5	0.5			
P2-1	Install Defoaming Skid	1	EA	incl	0	475.0	475	0.3		0.3	0.3			
P2-2	Polymer Feed Skid	1	EA	incl	0	950.0	950	0.5		0.5	0.5			
P2-2	Polymer Dilution Panel	1	EA	incl	0	475.0	475	0.3		0.3	0.3			
					0	0.0	0							
					0	0.0	0							
	Alum Feed Equipment				0	0.0	0							
P2-2	Install Alum Feed Skid	1	EA	incl	0	950.0	950	0.5		0.5	0.5			
P2-1	Install Duplex Recirculation Pump Skid	1	EA	incl	0	950.0	950	0.5		0.5	0.5			
					0	0.0	0							
					0	0.0	0							
P2-3	Utility Sink	1	EA	500.00	500	800.0	800	1.0		1.0				
					0	0.0	0							

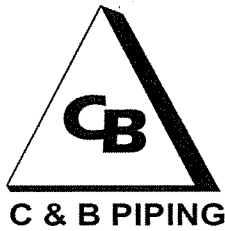
Project 1-3 Improvements at Main Lift Station Site				
Division 15, Mechanical Summary - Base Bid				
DESCRIPTION	L/E	MAT'L	SUB	TOTAL
Underground Pipe	149,847	441,219		591,066
Precast Structures	27,793	62,950		90,743
Exposed Pipe	26,019	91,504		117,523
Miscellaneous	13,500	7,000		20,500
Valves - Included with Pipe	-	-		-
HVAC	-	-	35,000	35,000
	217,159	602,673	35,000	854,832

Project 1-3 Improvements at Main Lift Station Site						WORK SHEET	PG	OF	EQUIP COMMENTS :						
Division 15, Underground Pipe - Base Bid											Track	Large Track	Track	RT	
SIZE	DESCRIPTION	QTY	UN	@	TOTAL	DPTH IN FT	COST/ FOOT	TOTAL LABOR	FMN	APP/ LAB	Hoe 330	Hoe 345	Loader 963	Hoe 420	Crane 35 Tn
	Influent Sewer Tie-in				-		-	-							
36	x 30 DI Tee	1	EA	3,217.56	3,218		7,125.00	7,125	2.5	5.0	2.5			2.5	
30	DI Sleeve	1	EA	1,236.38	1,236		-	-							
30	DI 90 Elbow	1	EA	1,815.31	1,815		-	-							
30	x 24 LEB Reducer	1	EA	917.88	918		-	-							
30	DI Pipe	36	LF	92.33	3,324		-	-							
24	DI 45 Elbow	1	EA	750.34	750		-	-							
24	x 20 DI Reducer	1	EA	667.95	668		-	-							
24	MJ x FL Wall Pipe, 1'-0" long	2	EA	2,350.31	4,701		-	-							
24	x 20 DI Reducer	1	EA	667.95	668		-	-							
20	Megalugs for Fittings	1	EA	264.89	265		-	-							
24	Megalugs for Fittings	4	EA	359.11	1,436		-	-							
30	Megalugs for Fittings	6	EA	822.82	4,937		-	-							
36	Megalugs for Fittings	2	EA	1,044.89	2,090		-	-							
	Influent Force Main				-		-	-							
24	DI Pipe	1,820	LF	71.52	130,166		15.66	28,500	10.0	20.0	10.0			10.0	
24	DI MJ 22-1/2 Bend	5	ea	692.28	3,461		-	-							
24	DI MJ 45 Bend	3	ea	750.34	2,251		-	-							
24	DI MJ 90 Bend	1	ea	1,131.32	1,131		-	-							
24	DI MJ 11-1/4 Bend	4	ea	648.05	2,592		-	-							
24	x 20 MJ Reducer	1	ea	667.95	668		-	-							
20	MJ X FL Wall Pipe, 2'-0" Long	1	ea	1,853.35	1,853		-	-							
20	DI MJ Sleeve	1	ea	447.88	448		-	-							
20	Megalugs for Fittings	3	ea	264.89	795		-	-							
24	Megalugs for Fittings	27	ea	359.11	9,696		-	-							
	UV Bypass				-		-	-							
18	FL x MJ Wall Pipe, 1'-6" Long	2	ea	1,494.07	2,988		-	-							
18	DI Pipe	72	lf	52.28	3,764		49.48	3,563	1.3	2.5	1.3			1.3	
18	DI MJ 45 Bend	2	ea	462.26	925		-	-							
18	DI MJ 90 Bend	1	ea	543.54	544		-	-							
18	DI MJ Sleeve	1	ea	375.00	375		-	-							
18	MJ Accessories	8	ea	73.42	587		-	-							
	Building Drain				-		-	-							
4	DI Pipe	80	lf	15.46	1,237		39.06	3,125	2.5	5.0					
6	DI Pipe	60	lf	13.49	809		-	-							
4	DI wye	2	ea	83.49	167		-	-							
4	DI 90 degree bend	5	ea	38.71	194		-	-							
4	DI 45 degree bend	3	ea	32.07	96		-	-							
4	x 6 MJ Reducer	1	ea	37.05	37		-	-							
6	DI wye	2	ea	126.62	253		-	-							
6	mj 45 bend	2	ea	51.42	103		-	-							
	floor drains	5	ea	350.00	1,750		-	-							
4	MJ Accessories	23	ea	13.44	309		-	-							
6	MJ Accessories	10	ea	17.33	173		-	-							
	Coagulation Tank Drain				-		-	-							
6	FL x MJ Wall Pipe, 2'-0" Long	2	ea	351.18	702		1,425.00	2,850	1.0	2.0	1.0			1.0	
6	MJ Valves	2	ea	850.00	1,700		-	-							
6	MJ 45 Bend	1	ea	51.42	51		-	-							

Project 1-3 Improvements at Main Lift Station Site Division 15, Underground Pipe - Base Bid						WORK SHEET	PG	_____ OF _____	EQUIP COMMENTS :						
SIZE	DESCRIPTION	QTY	UN	@	TOTAL	DPTH IN FT	COST/ FOOT	TOTAL LABOR	FMN	APP/ LAB	Track Hoe 330	Large Track Hoe 345	Track Loader 963	RT Hoe 420	Crane 35 Tn
6	MJ wye	1	ea	126.62	127		-	-							
6	MJ 90 bend	2	ea	63.59	127		-	-							
6	DI Pipe	20	lf	13.49	270		-	-							
6	MJ Accessories	13	ea	17.33	225		-	-							
					-		-	-							
	Hydrocyclone Discharge Lines				-		-	-							
4	MJ 45 Bend	2	ea	32.07	64		712.50	1,425	0.5	1.0	0.5			0.5	
4	MJ 90 Bend	3	ea	38.71	116		-	-							
4	DI Pipe	40	lf	15.46	618		-	-							
4	MJ Accessories	10	ea	13.44	134		-	-							
					-		-	-							
	Maturation Tank Drain Lines				-		-	-							
6	FL x MJ Wall Pipe, 2'-0" Long	2	ea	351.18	702		1,425.00	2,850	1.0	2.0	1.0			1.0	
6	MJ Valves	2	ea	850.00	1,700		-	-							
6	MJ 45 Bend	1	ea	51.42	51		-	-							
6	MJ wye	1	ea	126.62	127		-	-							
6	MJ 90 bend	2	ea	63.59	127		-	-							
6	DI Pipe	20	lf	13.49	270		-	-							
6	MJ Accessories	9	ea	17.33	156		-	-							
					-		-	-							
	Settling Tank Drain Line				-		-	-							
6	FL x MJ Wall Pipe, 2'-0" Long	1	ea	351.18	351		2,850.00	2,850	1.0	2.0	1.0			1.0	
6	MJ Valve	1	ea	850.00	850		-	-							
6	MJ 45 Bend	3	ea	51.42	154		-	-							
6	DI Pipe	40	lf	13.49	540		-	-							
6	MJ Accessories	6	ea	17.33	104		-	-							
					-		-	-							
	HRC Drain Line MH#5 - MH #6				-		-	-							
12	DI Pipe	120	lf	27.68	3,322		23.75	2,850	1.0	2.0	1.0			1.0	
					-		-	-							
	HRC Drain Line MH #6 - MH #6a				-		-	-							
18	DI Pipe	120	lf	52.28	6,274		23.75	2,850	1.0	2.0	1.0			1.0	
					-		-	-							
	UV Drain Line				-		-	-							
18	DI Pipe	20	lf	52.28	1,046		71.25	1,425	0.5	1.0	0.5			0.5	
18	FL X MJ Wall Pipe, 1'-6" Long	1	ea	1,494.07	1,494		-	-							
18	MJ Accessories	1	ea	73.42	73		-	-							
					-		-	-							
	UV Effluent Line, Structure to Effluent MH #1				-		-	-							
36	FL X MJ Wall Pipe, 2'-0" Long	1	ea	4,602.89	4,603		4,275.00	4,275	1.5	3.0	1.5			1.5	
36	DI Pipe	144	lf	127.45	18,353		-	-							
36	DI MJ Tee	1	ea	3,809.76	3,810		-	-							
36	DI MJ 90 Bend	1	ea	2,837.69	2,838		-	-							
36	MJ Accessories	5	ea	424.65	2,123		-	-							
					-		-	-							
	Effluent MH #1 - Effluent MH #2				-		-	-							
36	DI Pipe	108	lf	127.45	13,765		26.39	2,850	1.0	2.0	1.0			1.0	
					-		-	-							
	Effluent MH #2 - Effluent MH #3				-		-	-							
36	DI Pipe	54	lf	127.45	6,882		26.39	1,425	0.5	1.0	0.5			0.5	
					-		-	-							
	Effluent MH #3 - Effluent MH #4				-		-	-							
48	RCP Pipe - 12'-14' Deep	280	lf	85.00	23,800		37.63	10,535	3.5	7.0		3.5		3.5	
					-		-	-							

Project 1-3 Improvements at Main Lift Station Site Division 15, Underground Pipe - Base Bid					WORK SHEET	PG	OF	EQUIP COMMENTS :							
SIZE	DESCRIPTION	QTY	UN	@	TOTAL	DPTH IN FT	COST/ FOOT	TOTAL LABOR	FMN	APP/ LAB	Track Hoe 330	Large Track Hoe 345	Track Loader 963	RT Hoe 420	Crane 35 Tn
	Effluent MH #4 - Effluent MH #5				-		-	-							
54	RCP Pipe - 14' - 16' Deep	580	lf	110.00	63,800		36.33	21,070	7.0	14.0		7.0	7.0		
	Effluent MH #5 - Outfall Structure				-		-	-							
54	RCP Pipe - 14' - 16' Deep	100	lf	110.00	11,000		45.15	4,515	1.5	3.0		1.5	1.5		
	Storm Piping				-		-	-							
15	Storm Manhole #9 - Storm Manhole #10	30	lf	13.00	390		47.50	1,425	0.5	1.0	0.5		0.5		
36	New Storm Manhole #7 - New Storm Manhole #8	90	lf	51.00	4,590		31.67	2,850	1.0	2.0	1.0		1.0		
36	New Storm Manhole #8 - New Outfall Structure #2	30	lf	51.00	1,530		47.50	1,425	0.5	1.0	0.5		0.5		
30	New Storm Manhole #10 - New Storm Manhole #11	150	lf	47.00	7,050		28.50	4,275	1.5	3.0	1.5		1.5		
30	New Storm Manhole #11 - New Storm Manhole #12	360	lf	47.00	16,920		19.79	7,125	2.5	5.0	2.5		2.5		
30	New Storm Manhole #12 - New Storm Manhole #13	120	lf	47.00	5,640		35.63	4,275	1.5	3.0	1.5		1.5		
18	New Storm Manhole #13 - New Storm Manhole #15	60	lf	16.00	960		47.50	2,850	1.0	2.0	1.0		1.0		
30	New Storm Manhole #13 - New Outfall Structure #3	40	lf	47.00	1,880		35.63	1,425	0.5	1.0	0.5		0.5		
18	New Storm Manhole #15 - New Storm Manhole #14	30	lf	16.00	480		47.50	1,425	0.5	1.0	0.5		0.5		
18	New Storm Manhole #14 - New Storm Outfall Structure #6	30	lf	16.00	480		47.50	1,425	0.5	1.0	0.5		0.5		
	Unload and String Pipe (All Materials)	1	LS		-		6,540.00	6,540		6.0			6.0		
	Yard Hydrants	2	Ea	1,750.00	3,500		2,412.00	4,824	3.0	3.0				3.0	
	Well Installation and Piping for New Ponds	1	LS	15,000.00	15,000		-	-							
DEFAULTS & TICKLERS:		-	-	-	-	-	-	-	-	-	-	-	-	-	-
	VALVES	-	ID	135.00	-	-	-	-							
	VALVE BOXES	-	EA	85.00	-	-	-	-							
	THRUST BLOCKS	3	EA	150.00	450	-	-	-							
	HAUL SPOIL		CY	5.00	-	-	-	-							
	TESTING	1	LS	4,500.00	4,500	-	5,900.00	5,900	5.0	9.0					
	ASPHALT PATCH 110#/in/sy		TON	60.00	-	-	-	-							
	FULL DEPTH GRANULAR	1000	TON	6.00	6,000	-	-	-							
	GRANULAR ENVELOPE	500	TON	12.00	6,000	-	-	-							
	CONCRETE ENCASEMENT	-	w/above		-	-	-	-							
								L/E CHECK:	149,847	55.3	112.5	32.8	12.0	50.8	3.0
										550	350	860	1020	740	708
				LAB/EQ	MTL/SUB		TOTAL			30,388	39,375	28,165	12,240	37,555	2,124
				149,847.00	441,219	=	591,066								0
				=====	=====		=====								
				LABOR COST/FT	=	31.06									OPERATOR =
				FT/MH	=	2.27	2,130	= TOTAL MANHOURS							LABORER =
				AVE PIPE SIZE	=	29.48	4,825	= TOT. FTG.							OILER =
															FITTER =
															500

Project 1-3 Improvements at Main Lift Station Site						WORK SHEET			PG _____ OF _____		EQUIP COMMENTS :							
Division 15, Exposed Pipe - Base Bid																		
SIZE	DESCRIPTION	QTY	UN	@	TOTAL	I.D.	COST/ I.D.	TOTAL LABOR	FMN	FTR	LAB	CRANES		MAN	Track Loader	RT Hoe	Other	
												M-50	35 Tn	LIFT	963	420		
		-			-	-	-	-										
	Unload and String	1	LS		-	-	-	529			0.5						0.5	
	Influent Junction Structure				-	80	23.50	1,880	1.0		1.0		1.0					
20	FL x FL Spool Piece, 2' Long	2	ea	950.00	1,900	40	-	-										
20	DI Motor Actuated Valve	1	ea	24,657.00	24,657	20	-	-										
20	Flanged Coupling Adapter	1	ea	2,000.00	2,000	20	-	-										
	Influent Pipe				-	-	-	-										
20	FL x FL Spool Piece, 1'-0" Long	1	ea	821.60	822	204	21.76	4,440	4.0		4.0						2.0	
20	Magnetic Flowmeter	1	ea	w/ I&C	-	20	-	-										
20	Flanged Coupling Adapter	1	ea	2,000.00	2,000	20	-	-										
20	FL x FL Spool Piece, 12'-0" Long	1	ea	2,020.80	2,021	20	-	-										
24	x 20 Flanged Reducer	1	ea	1,278.95	1,279	24	-	-										
24	Stainless Steel Spool Piece	1	ea	w/ Kruger	-	24	-	-										
24	FL x FL Spool Piece, 1'-0" Long	1	ea	645.60	646	24	-	-										
24	Inline Mixing Unit	1	ea	w/ Kruger	-	24	-	-										
24	FL x FL Spool Piece, 4'-0" Lon	1	ea	1,478.40	1,478	24	-	-										
24	FL X FL Wall Pipe, 2'-0" Long	1	ea	1,902.75	1,903	24	-	-										
	Water Supply Piping				-	108	36.94	3,990	3.5		3.5						2.0	
3	Flg 90 Degree Bend	8	ea	46.45	372	24	-	-										
3	Flg Tee	3	ea	66.35	199	9	-	-										
3	FL x FL Spool Piece, 13' Long	3	ea	469.60	1,409	9	-	-										
3	FL X FL Spool Piece, 8' Long	1	ea	318.40	318	3	-	-										
3	Flg Gate Valve	2	ea	300.00	600	6	-	-										
3	Backflow Preventer	1	ea	2,500.00	2,500	3	-	-										
3	FL x FL Spool Piece, 3' Long	1	ea	167.20	167	3	-	-										
3	FL x FL Spool Piece, 12' Long	1	ea	440.00	440	3	-	-										
3	FL x FL Spool Piece, 14' Long	2	ea	500.00	1,000	6	-	-										
3	FL x FL Spool Piece, 16' Long	1	ea	550.00	550	3	-	-										
3	FL x FL Spool Piece, 10' Long	1	ea	379.20	379	3	-	-										
3	Flanged Cross	1	ea	101.19	101	3	-	-										
3	DI Blind Flange	10	ea	18.80	188	30	-	-										
3	FL x FL Spool Piece, 4' Long	1	ea	197.60	198	3	-	-										
3	FL x MJ Wall Pipe, 2' Long	2	ea	195.20	390	6	-	-										
	Sand Recirculation Piping				-	102	34.71	3,540	3.0		3.0						2.0	
6	FL x MJ Wall Pipe, 2' Long	1	ea	526.77	527	6	-	-										
6	FL x FL Spool Piece, 1'-0" Long	1	ea	220.80	221	6	-	-										
6	Flanged Tee	2	ea	246.33	493	12	-	-										
6	Flanged 90 Degree Bend	2	ea	167.54	335	12	-	-										
6	FL x FL Spool Piece, 4'-0" Long	2	ea	337.20	674	12	-	-										
6	FL x FL Spool Piece, 1'-0" Long	3	ea	220.80	662	18	-	-										
6	FL x FL Spool Piece, 3'-0" Long	3	ea	298.80	896	18	-	-										
6	Flanged Plug Valve	3	ea	850.00	2,550	18	-	-										
					-	-	-	-										
					-	450	25.87	11,640	12.0		12.0						2.0	
6	FL x FL Spool Piece, 3'-0" Long	3	ea	298.80	896	18	-	-										
6	Flanged Plug Valve	3	ea	850.00	2,550	18	-	-										
6	FL x FL Spool Piece, 10' Long	3	ea	568.80	1,706	18	-	-										
6	Flanged 90 Bend	15	ea	167.54	2,513	90	-	-										



REPRESENTED BY:

PROJECT: INDIANAPOLIS, IN
TERRE HAUTE WET WEATHER PROJECT/ENGINEERING I
BID:
REVISION:
ADDENDUMS:
ESTIMATOR: ERIC THOMAS

We are pleased to offer for your consideration, our proposal covering ductile iron pipe and fittings for the above referenced project.

The bill of material listed in our proposal is our interpretation of the contract drawings. It is offered as assistance in preparing your total estimate but is not guaranteed as to the final material that would actually be required. We could furnish you with piping layout drawings detailing all the the above with a bill of material which would be for approval prior to ordering and manufacturing.

C&B Piping, Inc. is a fabricator of ductile iron pipe. We will furnish and fabricate flange pipe, wall pipe and factory restrained joint cut/weld pieces for this project.

All prices are FOB factory with full truckload freight allowed to jobsite. We do not include sales or use taxes. Our payment terms are less 2% if paid in 10 days and full payment in 30 days. All past due invoices will be charged 1-1/2% interest per month.

**** ESCALATION CLAUSE ****

Push-On and Restrained Joint pipe prices are firm for 90 days from bid date. Fabricated pipe & all fitting prices are firm for 6 months from bid date. All prices are subject to increase if not ordered within the above mentioned time periods.

Note the following:

- 1) **Pipe:**
 - a) We have quoted pipe class as shown.
 - b) Flanged Pipe is quoted as Class 53, with 125# flanges

- 2) **Fittings:**
 - a) Flange: Full Body Ductile Iron 125# (ANSI/AWWA C110/A21.10)
 - b) Mechanical Joint: Compact MJ (AWWA C153)
 - c)

- 3) **Lining:**
 - a) Standard Thickness Cement (ANSI/AWWA C104/A21.4)

- 4) **Coating:**
 - a) Buried: Standard Asphalt
 - b) Exposed: Tnemec Series 140-1211, 4-6 mils dft

- 5) **Restrained Joints:**
 - a) Pipe TYTON
 - b) Ftgs MJ w/ Wedge Restraints

- 6) **Gaskets:**
 - a) Standard SBR

- b)
- 7) **Hardware (where listed)**
 - a) MJ T-Bolts for buried MJ joints are quoted as Std Low Alloy Steel
 - b) Flanged Bolts A307B Carbon Steel
 - c)
- 8) **Origin:**
 - a) Some materials quoted may be globally sourced. If domestic only materials are required, prices may be adjusted accordingly.
- 9) **Wall Pipes:**
 - a) Wall Collars thicknesses are quoted as industry standard - C&B Submittal
 - b)
- 10) **Addenda:**
 - a) None
 - a) We have not accounted or any changes made by later addenda.

QUALIFICATIONS:

IMPORTANT INFORMATION CONCERNING FLANGED PIPE

30"-64" Flange Pipe fabricated by C&B Piping, Inc will be furnished with FLANGE-TYTE® Gaskets. Failure to use this gasket will result in voiding the manufacturer's warranty.

FLANGE-TYTE® GASKET FULL FACE -1/8" THICKNESS - 3 O-RING SEAL FEATURE

	Approximate Bolt Torque (ft-lb)																
	04"	06"	08"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"	54"	60"	64"
150 PSI --->	90	90	90	90	90	110	110	120	120	130	140	160	585	625	550	600	600
250 PSI --->	90	90	90	90	90	110	110	120	120	130	140	160	585	625			
350 PSI --->	110	110	110	130	130	150	160	180	200	220							

SEQ MARK	ADD MARK	QUAN	UNIT	DESCRIPTION	TOTAL WEIGHT	UNIT PRICE	TOTAL PRICE
10							
20							
30							
40				<u>INFLUENT SEWER TIE-IN</u>			
50		1	EA	36x30" MJ TEE C153 CL/TC	1,555.0	3,217.56	\$3,217.56
60		1	EA	30" MJ SLV LP C153 TL/TC	640.0	1,236.38	\$1,236.38
70		1	EA	30" MJ 90 C153 CL/TC	930.0	1,815.31	\$1,815.31
80		1	EA	30x24" MJ CON RED BB C153 CL/TC	478.0	917.88	\$917.88
90		36	FT	30" P.O. JOINT DIP CLASS 150 18' NOM CL/TC	3,978.0	92.33	\$3,323.86
100		1	EA	24" MJ 45 C153 CL/TC	405.0	750.34	\$750.34
110		2	EA	24" FLG x PE DIP CL53 1' 0" CL/PC 1-WC 1-TTMJ BELL 1-TF	568.0	2,350.31	\$4,700.61
120		1	EA	24x20" MJ CON RED BB C153 CL/TC	300.0	667.95	\$667.95
130		2	EA	36" TUF GRIP SET (DI)	726.0	1,044.89	\$2,089.79
140		6	EA	30" TUF GRIP SET (DI)	1,638.0	822.82	\$4,936.94
150		4	EA	24" TUF GRIP SET (DI)	624.0	359.11	\$1,436.42
160		1	EA	20" TUF GRIP SET (DI)	89.0	264.89	\$264.89
170							
180				<u>INFLUENT FORCE MAIN</u>			
190		1,820	FT	24" P.O. JOINT DIP CLASS 200 18' NOM CL/TC	156,702.0	71.52	\$130,162.12
200		5	EA	24" MJ 22.5 C153 CL/TC	2,060.0	692.28	\$3,461.41
210		3	EA	24" MJ 45 C153 CL/TC	1,215.0	750.34	\$2,251.02
220		1	EA	24" MJ 90 C153 CL/TC	565.0	1,131.32	\$1,131.32
230		4	EA	24" MJ 11.25 C153 CL/TC	1,260.0	648.05	\$2,592.19
240		1	EA	24x20" MJ CON RED BB C153 CL/TC	300.0	667.95	\$667.95
250		1	EA	20" FLG x PE DIP CL53 2' 0" CL/PC 1-WC 1-TTMJ BELL 1-TF	313.0	1,853.35	\$1,853.35

SEQ MARK	ADD MARK	QUAN	UNIT	DESCRIPTION	TOTAL WEIGHT	UNIT PRICE	TOTAL PRICE
260		1	EA	20" MJ SLV LP C153 TL/TC	255.0	447.88	\$447.88
270		27	EA	24" TUF GRIP SET (DI)	4,212.0	359.11	\$9,695.86
280		3	EA	20" TUF GRIP SET (DI)	267.0	264.89	\$794.68
290							
300				<u>UV BYPASS</u>			
310		2	EA	18" FLG x PE DIP CL53 1' 6" CL/PC 1-WC 1-TTMJ BELL 1-TF	460.0	1,494.07	\$2,988.14
320		72	FT	18" P.O. JOINT DIP CLASS 250 18' NOM CL/TC	4,356.0	52.28	\$3,764.33
330		2	EA	18" MJ 45 C153 CL/TC	500.0	462.26	\$924.52
340		1	EA	18" MJ 90 C153 CL/TC	335.0	543.54	\$543.54
350		8	EA	18" MJ ACC SET C153	376.0	73.42	\$587.39
360							
370				<u>BUILDING DRAIN</u>			
380		80	FT	04" P.O. JOINT DIP CLASS 350 20' NOM CL/TC	952.0	15.46	\$1,236.71
390		60	FT	06" P.O. JOINT DIP CLASS 350 20' NOM CL/TC	1,020.0	13.49	\$809.65
400		2	EA	04" MJ WYE C153 CL/TC	90.0	83.49	\$166.99
410		5	EA	04" MJ 90 C153 CL/TC	125.0	38.71	\$193.53
420		3	EA	04" MJ 45 C153 CL/TC	66.0	32.07	\$96.21
430		1	EA	06x04" MJ CON RED BB C153 CL/TC	24.0	37.05	\$37.05
440		2	EA	06" MJ WYE C153 CL/TC	186.0	126.62	\$253.25
450		2	EA	06" MJ 45 C153 CL/TC	64.0	51.42	\$102.85
460		23	EA	04" MJ ACC SET C153	184.0	13.44	\$309.01
470		10	EA	06" MJ ACC SET C153	120.0	17.33	\$173.29
480							
490				<u>COAGULATION TANK DRAIN</u>			
500		2	EA	06" FLG x PE DIP CL53 2' 0" CL/PC 1-WC 1-TTMJ BELL 1-TF	124.0	351.18	\$702.35
510		1	EA	06" MJ 45 C153 CL/TC	32.0	51.42	\$51.42
520		1	EA	06" MJ WYE C153 CL/TC	93.0	126.62	\$126.62
530		2	EA	06" MJ 90 C153 CL/TC	78.0	63.59	\$127.18
540		20	FT	06" P.O. JOINT DIP CLASS 350 20' NOM CL/TC	340.0	13.49	\$269.88
550		13	EA	06" MJ ACC SET C153	156.0	17.33	\$225.28
560							
570				<u>HYDROCYCLONE DISCH. LINES</u>			
580		2	EA	04" MJ 45 C153 CL/TC	44.0	32.07	\$64.14
590		3	EA	04" MJ 90 C153 CL/TC	75.0	38.71	\$116.12
600		40	FT	04" P.O. JOINT DIP CLASS 350 20' NOM CL/TC	476.0	15.46	\$618.35
610							
620				<u>MATURATION TANK DRAIN LINES</u>			
630		2	EA	06" FLG x PE DIP CL53 2' 0" CL/PC 1-WC 1-TTMJ BELL 1-TF	124.0	351.18	\$702.35
640		1	EA	06" MJ 45 C153 CL/TC	32.0	51.42	\$51.42
650		1	EA	06" MJ WYE C153 CL/TC	93.0	126.62	\$126.62
660		2	EA	06" MJ 90 C153 CL/TC	78.0	63.59	\$127.18
670		20	FT	06" P.O. JOINT DIP CLASS 350 20' NOM CL/TC	340.0	13.49	\$269.88
680		9	EA	06" MJ ACC SET C153	108.0	17.33	\$155.96
690							
700				<u>SETTLING TANK DRAIN LINE</u>			
710		1	EA	06" FLG x PE DIP CL53 2' 0" CL/PC 1-WC 1-TTMJ BELL 1-TF	62.0	351.18	\$351.18
720		3	EA	06" MJ 45 C153 CL/TC	96.0	51.42	\$154.27
730		40	FT	06" P.O. JOINT DIP CLASS 350 20' NOM CL/TC	680.0	13.49	\$539.76
740		6	EA	06" MJ ACC SET C153	72.0	17.33	\$103.98
750							
760				<u>HRC DRAIN LINES MH #5/MH #6</u>			
770		120	FT	12" P.O. JOINT DIP CLASS 350 20' NOM CL/TC	4,368.0	27.68	\$3,321.88
780							
790				<u>HRC DRAIN LINE MH #6 MH #61</u>			
800		120	FT	18" P.O. JOINT DIP CLASS 250 18' NOM CL/TC	7,260.0	52.28	\$6,273.88
810							

SEQ MARK	ADD MARK	QUAN	UNIT	DESCRIPTION	TOTAL WEIGHT	UNIT PRICE	TOTAL PRICE
820				<u>UV DRAIN LINE</u>			
830		20	FT	18" P.O. JOINT DIP CLASS 250 18' NOM CL/TC	1,210.0	52.28	\$1,045.65
840		1	EA	18" FLG x PE DIP CL53 1' 6" CL/PC 1-WC 1-TTMJ BELL 1-TF	230.0	1,494.07	\$1,494.07
850		1	EA	18" MJ ACC SET C153	47.0	73.42	\$73.42
860							
870				<u>UV EFF. LINE/STRUCTURE TO EFF. MH #1</u>			
880		1	EA	36" FLG x PE DIP CL53 2' 0" CL/PC 1-WC 1-TTMJ BELL 1-TF	770.0	4,602.89	\$4,602.89
890		144	FT	36" P.O. JOINT DIP CLASS 150 18' NOM CL/TC	21,268.8	127.45	\$18,352.38
900		1	EA	36" MJ TEE C153 CL/TC	1,900.0	3,809.76	\$3,809.76
910		1	EA	36" MJ 90 C153 CL/TC	1,450.0	2,837.69	\$2,837.69
920		5	EA	36" MJ ACC SET C153	785.0	424.65	\$2,123.24
930							
940				<u>EFF. MH #1/MH #2</u>			
950		108	FT	36" P.O. JOINT DIP CLASS 150 18' NOM CL/TC	15,951.6	127.45	\$13,764.28
960							
970				<u>EFF. MH #2/MH #3</u>			
980		54	FT	36" P.O. JOINT DIP CLASS 150 18' NOM CL/TC	7,975.8	127.45	\$6,882.14
990							
1000				<u>INF. JCT. STRUCTURE</u>			
1010		2	EA	20" FLG x PE DIP CL53 2' 0" CL/PC	626.0	596.00	\$1,192.00
1020		1	EA	20" BAKER #602 FLG CPLG ADAPTOR/EPOXY L & C		2,000.00	\$2,000.00
1030							
1040				<u>INF. PIPG</u>			
1050		1	EA	20" FLG x FLG DIP CL53 1' 0" CL/PC	329.0	821.60	\$821.60
1060		1	EA	20" FLG x FLG DIP CL53 12' 0" CL/PC	1,416.0	2,020.80	\$2,020.80
1070		1	EA	24x20" FLG CON RED C110 CL/PC	590.0	1,278.95	\$1,278.95
1080		1	EA	24" FLG x PE DIP CL53 1' 0" CL/PC	284.0	645.60	\$645.60
1090		1	EA	24" FLG x FLG DIP CL53 4' 0" CL/PC	816.0	1,478.40	\$1,478.40
1100		1	EA	24" FLG x FLG DIP CL53 2' 0" CL/PC 1-WC 1-TF	568.0	1,902.75	\$1,902.75
1110							
1120				<u>WATER SUPPLY PIPING</u>			
1130		8	EA	03" FLG 90 C110 CL/PC	200.0	46.45	\$371.58
1140		3	EA	03" FLG TEE C110 CL/PC	120.0	66.35	\$199.06
1150		3	EA	03" FLG x FLG DIP CL54 13' 0" CL/PC	657.0	469.60	\$1,408.80
1160		1	EA	03" FLG x FLG DIP CL54 8' 0" CL/PC	144.0	318.40	\$318.40
1170		1	EA	03" FLG x FLG DIP CL54 3' 0" CL/PC	69.0	167.20	\$167.20
1180		1	EA	03" FLG x FLG DIP CL54 12' 0" CL/PC	204.0	440.00	\$440.00
1190		2	EA	03" FLG x FLG DIP CL54 14' 0" CL/PC	468.0	500.00	\$1,000.00
1200		1	EA	03" FLG x FLG DIP CL54 15' 0" CL/PC	249.0	530.40	\$530.40
1210		1	EA	03" FLG x FLG DIP CL54 10' 0" CL/PC	174.0	379.20	\$379.20
1220		1	EA	03" FLG CROSS C110 CL/PC	50.0	101.19	\$101.19
1230		10	EA	03" BLIND FLG C110 /PC	90.0	18.80	\$188.00
1240		1	EA	03" FLG x FLG DIP CL54 4' 0" CL/PC	84.0	197.60	\$197.60
1250							
1260				<u>SAND RECIRC. PIPING</u>			
1270		1	EA	06" FLG x PE DIP CL53 2' 0" CL/PC 1-WC 1-TTMJ BELL 1-TF	62.0	351.18	\$351.18
1280		1	EA	06" FLG x FLG DIP CL53 1' 0" CL/PC	57.0	147.20	\$147.20
1290		2	EA	06" FLG TEE C110 CL/PC	190.0	164.22	\$328.45
1300		2	EA	06" FLG 90 C110 CL/PC	130.0	111.69	\$223.39
1310		2	EA	06" FLG x FLG DIP CL53 4' 0" CL/PC	248.0	224.80	\$449.60
1320		3	EA	06" FLG x FLG DIP CL53 1' 0" CL/PC	171.0	147.20	\$441.60
1330		3	EA	06" FLG x FLG DIP CL53 3' 0" CL/PC	306.0	199.20	\$597.60
1340							
1350		3	EA	06" FLG x FLG DIP CL53 3' 0" CL/PC	306.0	199.20	\$597.60
1360		3	EA	06" FLG x FLG DIP CL53 10' 0" CL/PC	780.0	379.20	\$1,137.60
1370		15	EA	06" FLG 90 C110 CL/PC	975.0	111.69	\$1,675.41

SEQ MARK	ADD MARK	QUAN	UNIT	DESCRIPTION	TOTAL WEIGHT	UNIT PRICE	TOTAL PRICE
1380		3	EA	06" FLG x FLG DIP CL53 6' 0" CL/PC	510.0	276.00	\$828.00
1390		3	EA	06" FLG x FLG DIP CL53 17' 0" CL/PC	1,254.0	559.20	\$1,677.60
1400		3	EA	06" FLG x FLG DIP CL53 11' 0" CL/PC	849.0	404.80	\$1,214.40
1410		3	EA	06" FLG x FLG DIP CL53 3' 0" CL/PC	306.0	199.20	\$597.60
1420		3	EA	06" FLG x FLG DIP CL53 10' 0" CL/PC	780.0	379.20	\$1,137.60
1430		3	EA	06" FLG x PE DIP CL53 3' 0" CL/PC	255.0	147.20	\$441.60
1440		3	EA	06" BAKER #602 FLG CPLG ADAPTOR		250.00	\$750.00
1450		3	EA	06" FLG x FLG DIP CL53 14' 0" CL/PC	1,050.0	482.40	\$1,447.20
1460		3	EA	06" FLG x FLG DIP CL53 4' 0" CL/PC	372.0	224.80	\$674.40
1470		3	EA	04" FLG x FLG DIP CL53 3' 0" CL/PC	207.0	148.80	\$446.40
1480		9	EA	04" FLG 90 C110 CL/PC	360.0	71.88	\$646.94
1490		9	EA	04" FLG x FLG DIP CL53 1' 0" CL/PC	351.0	106.40	\$957.60
1500		3	EA	04" FLG x FLG DIP CL53 5' 0" CL/PC	297.0	191.20	\$573.60
1510		6	EA	04" FLG 45 C110 CL/PC	240.0	64.14	\$384.85
1520		3	EA	04" FLG x FLG DIP CL53 2' 0" CL/PC	162.0	128.00	\$384.00
1530		3	EA	04" FLG x PE DIP CL53 17' 0" CL/PC	801.0	408.00	\$1,224.00
1540		1	EA	APPROX. FREIGHT CHARGE		500.00	\$500.00
1550		1		<u>TOTAL ALL ITEMS LISTED ABOVE</u>			<u>\$296,544.34</u>

City of Terre Haute, Indiana

Phase 1 Project 1-3 Improvements at Main Lift Station Project

Cost Estimate – Mandatory Alternate No. 1

City of Terre Haute, Indiana - Project 1-3 Improvements at Main Lift Station Project

Estimate of Probable Construction Costs - Mandatory Alternate No. 1 - Removal of All Paper Mill Product from Treatment Facility Site

Division	Description	Labor and Equipment Cost	Material / Subcontractor	Total Cost	Notes
2	Site Construction / Civil Work	\$ 210,532.00	\$ 42,701.00	\$ 253,233.00	
2	Demolition	\$ -	\$ -	\$ -	
3	Concrete	\$ -	\$ -	\$ -	
4	Masonry	\$ -	\$ -	\$ -	
5	Metals	\$ -	\$ -	\$ -	
6	Wood and Plastics	\$ -	\$ -	\$ -	
7	Thermal and Moisture Protection	\$ -	\$ -	\$ -	
8	Doors and Windows	\$ -	\$ -	\$ -	
9	Finishes	\$ -	\$ -	\$ -	
10	Specialties	\$ -	\$ -	\$ -	
11	Equipment	\$ -	\$ -	\$ -	
12	Furnishings	\$ -	\$ -	\$ -	
13	Special Construction / I&C	\$ -	\$ -	\$ -	
14	Conveying Systems	\$ -	\$ -	\$ -	
15	Mechanical - Piping	\$ -	\$ -	\$ -	
15	Mechanical - HVAC	\$ -	\$ -	\$ -	
16	Electrical	\$ -	\$ -	\$ -	
Total Direct Cost				\$ 253,233	\$ -

Mobilization / Demobilization	\$ -	Included in Base Bid
Small Tools	\$ 2,532	
Medium Tools	\$ 1,266	
Contractor Supervision	\$ -	Included in Base Bid
Total Project Direct Cost	\$ 257,031	

Contractors OH & Profit - 18%	\$ 46,266
Total Bid	\$ 303,297
Lump Sum Price	\$ 303,297

Contingency - 5% **\$ 15,165**

Total Cost with Contingency	\$ 318,462
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CITY OF TERRE HAUTE - PROJECT 1-3 IMPROVEMENTS AT MAIN LIFT STATION SITE																							
Mandatory Alternate No. 1 - Division 2				MTL/SUB TOTAL	UNIT LABOR CHECK	TOTAL LABOR CHECK	TOTAL EQUIP CHECK	LABOR FMN	LAB	HOE		LOADER		DOZERS		SHEEP FT		MISC EQUIP	PROD/ DAY				
DESCRIPTION	QUAN.	UN.	@							330	416	963	950	D-4G	D-7	ROLLER	DMP			TRK			
STRUCTURAL EXCAV. & BKFFILL				INPUT BELOW																			
STR. EXCAV., MAJOR	40,360	CY	-		2.02	43,296	38,159	36.7		36.7					36.7					1100			
STR. BKFL., MAJOR	3,174	CY	-		3.68	7,300	4,367	3.2	6.3			3.2			3.2	3.2				1000			
BORROW REQ'D	-	CY	-		-																		
SPOIL TO HAUL	31,449	CY	-		3.53		110,995										185.0			170			
MAINT. SPOIL PILE	31,449	CY	-		0.20	2,642	3,774							6.3						5000			
GRANULAR MATL	-8,607	TON	6.00	(51,643)	-																		
STR. EXCAVS., MINOR		CY	-		-															300			
STR. BKFFILL, MINOR		CY	-		-															150			
UNDRSLB DRNG COURSE		TON	8.40		-															1000			
LEAN CONCRETE FILL		CY	45.00		-																		
DISPOSAL FEE	31,448	CY	3.00	94,344	-																		
CLEAR AND GRUB	-	ACRE	-		-																		
STRIP TOPSOIL		CY	-		-															500			
REPLACE TOPSOIL		CY	-		-															300			
				42,701.25		53,237	157,295	40	6	37	-	3	-	-	46	3	185						
				LABOR & EQUIPMENT CHECK:				210,533	Daily Labor Rate				340	350	420	420	420	420	420	420			
									Oiler Labor Rate														
									Hourly Eq Rate						55	26	62	42	31	75	35	75	1
									Total Daily Rate				340	350	860	628	916	756	668	1,020	700	600	1
				LABOR	EQ	MTL/SUB	TOTAL	13,554	2,222	31,555		2,907			47,078	2,222	110,995						
				53,237	157,295	42,701	=	253,234													Operator	420	
																					Oiler	330	

Terre Haute Project 1-3 Improvements at Main Lift Station Project

Base Bid

Existing Grade to Proposed Excavation - Paper Product

Cut Volume 30,517 CY
 Fill Volume 192 CY
 30,326 CY Export Volume

Proposed Excavation to Proposed Grade

Cut Volume 1,415 CY
 Fill Volume 22,132 CY
 20,717 CY Import Volume

Granular Fill
 Import Quantity 20,717 CY
 75% 15,538 CY
 Conversion 2
 Import Total 31,076 TONS Import Tonnage

Base Bid - Ponds

Existing Grade to Proposed Excavation

Cut Volume 187,543 CY
 Fill Volume 167,213 CY
 20,330 CY Export Volume

Totals

Excavation	219,475 CY
Backfill	189,537 CY
Export Volume	50,656 CY
Granular Fill	31,076 TONS

Mandatory Alternate #1 - Remove Paper Product Complete

Existing Grade to Proposed Excavation - Paper Product

Cut Volume 61,970 CY
 Fill Volume 196 CY
 61,774 CY Export Volume

Proposed Excavation to Proposed Grade

Cut Volume 10,323 CY
 Fill Volume 25,302 CY
 14,979 CY Import Volume

Granular Fill
 Import Quantity 14,979 CY
 75% 11,234 CY
 Conversion 2
 Import Total 22,469 TONS Import Tonnage

Base Bid - Ponds

Existing Grade to Proposed Excavation

Cut Volume 187,543 CY
 Fill Volume 167,213 CY
 20,330 CY Export Volume

Totals

Excavation	259,836 CY	40,360 CY
Backfill	192,711 CY	3,174 CY
Export Volume	82,104 CY	31,449 CY
Granular Fill	22,469 TONS	-8,607 TONS

Additional Work in Mandatory Alt. No. 1

Disposal Fee

City of Terre Haute, Indiana

Phase 1 Project 1-3 Improvements at Main Lift Station Project

Cost Estimate – Mandatory Alternate No. 2

City of Terre Haute, Indiana - Project 1-3 Improvements at Main Lift Station Project

Estimate of Probable Construction Costs - Mandatory Alternate No. 2

Division	Description	Labor and Equipment Cost	Material / Subcontractor	Total Cost	Notes
2	Site Construction / Civil Work	\$ 77,004.00	\$ (29,683.00)	\$ 47,321.00	
2	Demolition	\$ -	\$ -	\$ -	
3	Concrete	\$ -	\$ -	\$ -	
4	Masonry	\$ -	\$ -	\$ -	
5	Metals	\$ -	\$ -	\$ -	
6	Wood and Plastics	\$ -	\$ -	\$ -	
7	Thermal and Moisture Protection	\$ -	\$ -	\$ -	
8	Doors and Windows	\$ -	\$ -	\$ -	
9	Finishes	\$ -	\$ -	\$ -	
10	Specialties	\$ -	\$ -	\$ -	
11	Equipment	\$ -	\$ -	\$ -	
12	Furnishings	\$ -	\$ -	\$ -	
13	Special Construction / I&C	\$ -	\$ -	\$ -	
14	Conveying Systems	\$ -	\$ -	\$ -	
15	Mechanical - Piping	\$ -	\$ -	\$ -	
15	Mechanical - HVAC	\$ -	\$ -	\$ -	
16	Electrical	\$ -	\$ -	\$ -	
Total Direct Cost				\$ 47,321	\$ -

Mobilization / Demobilization	\$ -	Included in Base Bid
Small Tools	\$ 473	
Medium Tools	\$ 237	
Contractor Supervision	\$ -	Included in Base Bid
Total Project Direct Cost	\$ 48,031	

Contractors OH & Profit - 18%	\$ 8,646
Total Bid	\$ 56,676
Lump Sum Price	\$ 56,676

Contingency - 5% \$ 2,834

Total Cost with Contingency	\$ 59,510
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Terre Haute Project 1-3 Improvements at Main Lift Station Project

Base Bid

Existing Grade to Proposed Excavation - Paper Product

Cut Volume	30,517 CY	
Fill Volume	192 CY	
	30,326 CY	Export Volume

Proposed Excavation to Proposed Grade

Cut Volume	1,415 CY	
Fill Volume	22,132 CY	
	20,717 CY	Import Volume

Granular Fill		
Import Quantity	20,717 CY	
	75%	15,538 CY
Conversion	2	
Import Total	31,076 TONS	Import Tonnage

Base Bid - Ponds

Existing Grade to Proposed Excavation

Cut Volume	187,543 CY	
Fill Volume	167,213 CY	
	20,330 CY	Export Volume

Totals

Excavation	219,475 CY
Backfill	189,537 CY
Export Volume	50,656 CY
Granular Fill	31,076 TONS

Mandatory Alternate No. 2 - Alternate Drive to Actiflow Facility

Existing Grade to Proposed Excavation - Paper Product

Cut Volume	38,763 CY	
Fill Volume	1,117 CY	
	37,646 CY	Export Volume

Proposed Excavation to Proposed Grade

Cut Volume	10,323 CY	
Fill Volume	25,302 CY	
	14,979 CY	Import Volume

Granular Fill		
Import Quantity	14,979 CY	
	75%	11,234 CY
Conversion	2	
Import Total	22,469 TONS	Import Tonnage

Base Bid - Ponds

Existing Grade to Proposed Excavation

Cut Volume	187,543 CY	
Fill Volume	167,213 CY	
	20,330 CY	Export Volume

Totals

Excavation	236,629 CY
Backfill	193,632 CY
Export Volume	57,976 CY
Granular Fill	22,469 TONS

Additional Work In Mandatory Alternate No. 2

Excavation	17,154 CY
Backfill	4,096 CY
Export Volume	7,320 CY
Granular Fill	-8,607 TONS

City of Terre Haute, Indiana

Phase 1 Project 1-3 Improvements at Main Lift Station Project

Cost Estimate – Mandatory Alternate No. 3

City of Terre Haute, Indiana - Project 1-3 Improvements at Main Lift Station Project
 Estimate of Probable Construction Costs - Mandatory Alternate No. 3 (COMAG Treatment Process)

Division	Description	Labor and Equipment Cost	Material / Subcontractor	Total Cost	Base Bid (Actiflow) Totals
2	Site Construction / Civil Work	\$ 1,370,890.00	\$ 573,640.00	\$ 1,944,530.00	\$ 1,944,530.00
2	Demolition	\$ 9,341.00	\$ 5,400.00	\$ 14,741.00	\$ 14,741.00
3	Concrete		\$ 674,475.00	\$ 674,475.00	\$ 643,450.00
4	Masonry	\$ 2,466.00	\$ 108,480.00	\$ 110,946.00	\$ 110,946.00
5	Metals	\$ 11,297.00	\$ 38,595.00	\$ 49,892.00	\$ 49,892.00
6	Wood and Plastics	\$ 14,724.00	\$ 22,595.00	\$ 37,319.00	\$ 37,319.00
7	Thermal and Moisture Protection	\$ -	\$ 14,451.00	\$ 14,451.00	\$ 14,451.00
8	Doors and Windows	\$ -	\$ 40,500.00	\$ 40,500.00	\$ 40,500.00
9	Finishes	\$ -	\$ 51,800.00	\$ 51,800.00	\$ 51,800.00
10	Specialties	\$ 1,275.00	\$ 1,500.00	\$ 2,775.00	\$ 2,775.00
11	Equipment	\$ 38,397.00	\$ 2,087,590.00	\$ 2,125,987.00	\$ 2,635,199.00
12	Furnishings	\$ -	\$ -	\$ -	
13	Special Construction / I&C	\$ -	\$ 125,000.00	\$ 125,000.00	\$ 125,000.00
14	Conveying Systems	\$ -	\$ -	\$ -	
15	Mechanical - Piping	\$ 215,111.00	\$ 639,721.00	\$ 854,832.00	\$ 854,832.00
15	Mechanical - HVAC	\$ -	\$ 35,000.00	\$ 35,000.00	\$ 35,000.00
16	Electrical	\$ 1,650.00	\$ 609,000.00	\$ 610,650.00	\$ 610,650.00

Total Direct Cost \$ **6,692,898** \$ **7,171,085.00**

Comag Costs Above (Below) Base Bid \$ **(478,187)**

Mobilization / Demobilization	\$ -
Small Tools	\$ (4,782)
Medium Tools	\$ (2,391)
Contractor Supervision	\$ -
Total Project Direct Cost	\$ (485,360)

Same as Base Bid (Actiflow)

Contractors OH & Profit - 5% \$ **(24,268)**

Total Bid \$ **(509,628)**

Lump Sum Price	\$ (509,628)
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Contingency - 5% \$ **(25,481)**

Total Cost with Contingency	\$ (535,109)
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PROJECT	Project 1-3 Improvements at Main Lift Station Site				PG _____	OF _____	FAUSERS\ \ \ \ -EQ							
	Division 11 - Equipment Installation													
	Mandatory Alternate No. 3 (COMAG)													
SHEET	DESCRIPTION	QTY	UN	@	MTL/SUB TOTAL	UNIT LABOR CHECK	TOTAL LABOR CHECK	FORE	CARP	LAB	GROVE CRANE	CAT 420	HOE RAM	DUMP TRUCK
					0	0.0	0							
	Comag Equipment	1	LS	1,475,000.00	1,475,000	0.0	0							
	Chemical Feed Equipment	1	LS	210,000.00	210,000	0.0	0							
					0	0.0	0							
	Ballast Tank				0	0.0	0							
MA3	Install Equipment	1	EA	incl	0	2629.0	2,629	1.5		3.0	0.5	0.5		
MA3	Install 36" x 48" Access Hatch	1	EA	1,100.00	1,100	365.0	365		0.5	0.5				
					0	0.0	0							
					0	0.0	0							
	Polymer Tank				0	0.0	0							
MA3	Assemble Mixer and Drive Unit	1	EA	incl	0	2275.0	2,275	1.5		3.0	0.5			
MA3	Install Mixer and Drive Unit	1	EA	incl	0	1125.0	1,125	0.5		1.0	0.5			
MA3	Grout Mixer Unit	1	EA	50.00	50	175.0	175			0.5				
MA3	Install 36" x 48" Hatch	1	EA	1,100.00	1,100	365.0	365		0.5	0.5				
					0	0.0	0							
	Settling Tank				0	0.0	0							
MA3	Assemble and Install Scraper Mechanism	1	EA	incl	0	3400.0	3,400	2.0		4.0	1.0			
MA3	Install Effluent Weirs	4	EA	incl	0	568.8	2,275	1.5		3.0	0.5			
MA3	Install Settling Plates	1	EA	incl	0	2300.0	2,300	2.0		4.0				
					0	0.0	0							
					0	0.0	0							
	Install Magnetic Return Pumps				0	0.0	0							
MA3	Install Pumps	2	EA	incl	0	1412.5	2,825	1.5		3.0	1.0			
MA3	Grout Pump Bases	2	EA	35.00	70	262.5	525			1.5				
MA3	Anchor Bolts	12	EA	15.00	180	0.0	0							
					0	0.0	0							
					0	0.0	0							
	Magnetic Drum Separator				0	0.0	0							
MA3	Install Separator	1	EA	incl	0	1700.0	1,700	1.0		2.0	0.5			
MA3	Grout Base	1	EA	35.00	35	350.0	350			1.0				
MA3	Anchor Bolts	12	EA	15.00	180	0.0	0							
					0	0.0	0							
					0	0.0	0							
	Polymer Makeup Unit				0	0.0	0							
MA3	Install Mixing and Aging Tank	1	EA	incl	0	950.0	950	0.5		0.5	0.5			
MA3	Install Polymer Make-up Unit	1	EA	incl	0	950.0	950	0.5		0.5	0.5			
MA3	Install Defoaming Skid	1	EA	incl	0	475.0	475	0.3		0.3	0.3			
MA3	Polymer Feed Skid	1	EA	incl	0	950.0	950	0.5		0.5	0.5			
MA3	Polymer Dilution Panel	1	EA	incl	0	475.0	475	0.3		0.3	0.3			
					0	0.0	0							
					0	0.0	0							
	Alum Feed Equipment				0	0.0	0							
MA3	Install Alum Feed Skid	1	EA	incl	0	950.0	950	0.5		0.5	0.5			
MA3	Install Duplex Recirculation Pump Skid	1	EA	incl	0	950.0	950	0.5		0.5	0.5			
					0	0.0	0							
					0	0.0	0							
MA3	Utility Sink	1	EA	500.00	500	800.0	800	1.0		1.0				
					0	0.0	0							
					0	0.0	0							
MA3	Submersible Sump Pumps	2	EA	650.00	1,300	600.0	1,200	1.5		1.5				
MA3	Grating	4	SF	30.00	120	45.6	183		0.3	0.3				

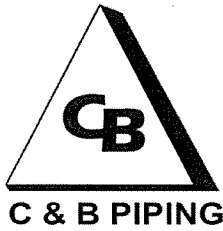
Project 1-3 Improvements at Main Lift Station Site				
Division 15, Mechanical Summary - Mandatory Alternate No. 3				
DESCRIPTION	L/E	MAT'L	SUB	TOTAL
Underground Pipe	150,559	442,870		593,429
Precast Structures	27,793	62,950		90,743
Exposed Pipe	23,259	91,901		115,160
Miscellaneous	13,500	7,000		20,500
Valves - Included with Pipe	-	-		-
HVAC	-	-	35,000	35,000
	215,111	604,721	35,000	854,832
	-			
			TOTAL	854,832

Project 1-3 Improvements at Main Lift Station Site Division 15, Underground Pipe - Mandatory Alternate No. 3						WORK SHEET	PG	OF	EQUIP COMMENTS :							
SIZE	DESCRIPTION	QTY	UN	@	TOTAL	DEPTH IN FT	COST/ FOOT	TOTAL LABOR	FMN	APP/ LAB	Track Hoe 330	Large Track Hoe 345	Track Loader 963	RT Hoe 420	Crane 35 Tn	Other
	Influent Sewer Tie-in				-		-	-								
36	x 30 DI Tee	1	EA	3,217.56	3,218		7,125.00	7,125	2.5	5.0	2.5					2.5
30	DI Sleeve	1	EA	1,236.38	1,236		-	-								
30	DI 90 Elbow	1	EA	1,815.31	1,815		-	-								
30	x 24 LEB Reducer	1	EA	917.88	918		-	-								
30	DI Pipe	36	LF	92.33	3,324		-	-								
24	DI 45 Elbow	1	EA	750.34	750		-	-								
24	x 20 DI Reducer	1	EA	667.95	668		-	-								
24	MJ x FL Wall Pipe, 1'-0" long	2	EA	2,350.31	4,701		-	-								
24	x 20 DI Reducer	1	EA	667.95	668		-	-								
20	Megalugs for Fittings	1	EA	264.89	265		-	-								
24	Megalugs for Fittings	4	EA	359.11	1,436		-	-								
30	Megalugs for Fittings	6	EA	822.82	4,937		-	-								
36	Megalugs for Fittings	2	EA	1,044.89	2,090		-	-								
					-		-	-								
	Influent Force Main				-		-	-								
24	DI Pipe	1,820	LF	71.52	130,166		15.66	28,500	10.0	20.0	10.0					10.0
24	DI MJ 22-1/2 Bend	5	ea	692.28	3,461		-	-								
24	DI MJ 45 Bend	3	ea	750.34	2,251		-	-								
24	DI MJ 90 Bend	1	ea	1,131.32	1,131		-	-								
24	DI MJ 11-1/4 Bend	4	ea	648.05	2,592		-	-								
24	x 20 MJ Reducer	1	ea	667.95	668		-	-								
20	MJ X FL Wall Pipe, 2'-0" Long	1	ea	1,853.35	1,853		-	-								
20	DI MJ Sleeve	1	ea	447.88	448		-	-								
20	Megalugs for Fittings	3	ea	264.89	795		-	-								
24	Megalugs for Fittings	27	ea	359.11	9,696		-	-								
					-		-	-								
	UV Bypass				-		-	-								
18	FL x MJ Wall Pipe, 1'-6" Long	2	ea	1,494.07	2,988		-	-								
18	DI Pipe	72	lf	52.28	3,764		49.48	3,563	1.3	2.5	1.3					1.3
18	DI MJ 45 Bend	2	ea	462.26	925		-	-								
18	DI MJ 90 Bend	1	ea	543.54	544		-	-								
18	DI MJ Sleeve	1	ea	375.00	375		-	-								
18	MJ Accessories	8	ea	73.42	587		-	-								
					-		-	-								
	Building Drain				-		-	-								
4	DI Pipe	80	lf	15.46	1,237		39.06	3,125	2.5	5.0						
6	DI Pipe	60	lf	13.49	809		-	-								
4	DI wye	2	ea	83.49	167		-	-								
4	DI 90 degree bend	5	ea	38.71	194		-	-								
4	DI 45 degree bend	3	ea	32.07	96		-	-								
4	x 6 MJ Reducer	1	ea	37.05	37		-	-								
6	DI wye	2	ea	126.62	253		-	-								
6	mj 45 bend	2	ea	51.42	103		-	-								
	floor drains	5	ea	350.00	1,750		-	-								
4	MJ Accessories	23	ea	13.44	309		-	-								
6	MJ Accessories	10	ea	17.33	173		-	-								
					-		-	-								
	Magnetic Drum Drain Line				-		-	-								
4	DI Pipe	36	lf	15.46	557		39.58	1,425	0.5	1.0	0.5					0.5
4	MJ 45 Bend	4	ea	32.07	128		-	-								
					-		-	-								
	Ballast Tank Drain				-		-	-								
6	FL x MJ Wall Pipe, 2'-0" Long	2	ea	351.18	702		1,425.00	2,850	1.0	2.0	1.0					1.0

Project 1-3 Improvements at Main Lift Station Site Division 15, Underground Pipe - Mandatory Alternate No. 3					WORK SHEET	PG	EQUIP COMMENTS :									
SIZE	DESCRIPTION	QTY	UN	@	TOTAL	DEPTH IN FT	COST/ FOOT	TOTAL LABOR	FMN	APP/ LAB	Track Hoe 330	Large Track Hoe 345	Track Loader 963	RT Hoe 420	Crane 35 Tn	Other
6	MJ Valves	2	ea	850.00	1,700		-	-								
6	MJ 45 Bend	1	ea	51.42	51		-	-								
6	MJ wye	1	ea	126.62	127		-	-								
6	MJ 90 bend	2	ea	63.59	127		-	-								
6	DI Pipe	20	lf	13.49	270		-	-								
6	MJ Accessories	13	ea	17.33	225		-	-								
	Polymer Tank Drain Lines															
6	FL x MJ Wall Pipe, 2'-0" Long	2	ea	351.18	702		712.50	1,425	0.5	1.0	0.5			0.5		
6	DI Pipe	18	lf	13.49	243		-	-								
6	MJ Valve	2	ea	850.00	1,700		-	-								
6	MJ 90 Bend	2	ea	63.59	127		-	-								
6	MJ Tee	1	ea	110.00	110		-	-								
	Settling Tank Drain Line															
6	FL x MJ Wall Pipe, 2'-0" Long	1	ea	351.18	351		2,850.00	2,850	1.0	2.0	1.0			1.0		
6	MJ Valve	1	ea	850.00	850		-	-								
6	MJ 45 Bend	3	ea	51.42	154		-	-								
6	DI Pipe	40	lf	13.49	540		-	-								
6	MJ Accessories	6	ea	17.33	104		-	-								
	Magnetic Return Pump Suction Line															
10	FL x PE Spool Piece, 6'-0" Long	2	ea	384.00	768		1,068.75	2,138	0.8	1.5	0.8			0.8		
10	DI Pipe	36	lf	22.73	818		-	-								
10	MJ 45 Bend	1	ea	110.04	110		-	-								
10	MJ 90 Bend	2	ea	147.64	295		-	-								
10	MJ Accessories	6	ea	26.38	158		-	-								
	HRC Drain Line MH#5 - MH #6															
12	DI Pipe	120	lf	27.68	3,322		23.75	2,850	1.0	2.0	1.0			1.0		
	HRC Drain Line MH #6 - MH #6a															
18	DI Pipe	120	lf	52.28	6,274		23.75	2,850	1.0	2.0	1.0			1.0		
	UV Drain Line															
18	DI Pipe	20	lf	52.28	1,046		71.25	1,425	0.5	1.0	0.5			0.5		
18	FL X MJ Wall Pipe, 1'-6" Long	1	ea	1,494.07	1,494		-	-								
18	MJ Accessories	1	ea	73.42	73		-	-								
	UV Effluent Line, Structure to Effluent MH #1															
36	FL X MJ Wall Pipe, 2'-0" Long	1	ea	4,602.89	4,603		4,275.00	4,275	1.5	3.0	1.5			1.5		
36	DI Pipe	144	lf	127.45	18,353		-	-								
36	DI MJ Tee	1	ea	3,809.76	3,810		-	-								
36	DI MJ 90 Bend	1	ea	2,837.69	2,838		-	-								
36	MJ Accessories	5	ea	424.65	2,123		-	-								
	Effluent MH #1 - Effluent MH #2															
36	DI Pipe	108	lf	127.45	13,765		26.39	2,850	1.0	2.0	1.0			1.0		
	Effluent MH #2 - Effluent MH #3															
36	DI Pipe	54	lf	127.45	6,882		26.39	1,425	0.5	1.0	0.5			0.5		
	Effluent MH #3 - Effluent MH #4															
48	RCP Pipe - 12'-14' Deep	280	lf	85.00	23,800		37.63	10,535	3.5	7.0		3.5		3.5		
	Effluent MH #4 - Effluent MH #5															
54	RCP Pipe - 14' - 16' Deep	580	lf	110.00	63,800		36.33	21,070	7.0	14.0		7.0		7.0		

Project 1-3 Improvements at Main Lift Station Site Division 15, Underground Pipe - Mandatory Alternate No. 3					WORK SHEET	PG	OF	EQUIP COMMENTS :								
SIZE	DESCRIPTION	QTY	UN	@	TOTAL	DEPTH IN FT	COST/ FOOT	TOTAL LABOR	FMN	APP/ LAB	Track Hoe 330	Large Track Hoe 345	Track Loader 963	RT Hoe 420	Crane 35 Tn	Other
	Effluent MH #5 - Outfall Structure				-		-	-								
54	RCP Pipe - 14' - 16' Deep	100	If	110.00	11,000		45.15	4,515	1.5	3.0		1.5	1.5			
					-		-	-								
	Storm Piping				-		-	-								
15	Storm Manhole #9 - Storm Manhole #10	30	If	13.00	390		47.50	1,425	0.5	1.0	0.5		0.5			
36	New Storm Manhole #7 - New Storm Manhole #8	90	If	51.00	4,590		31.67	2,850	1.0	2.0	1.0		1.0			
36	New Storm Manhole #8 - New Outfall Structure #2	30	If	51.00	1,530		47.50	1,425	0.5	1.0	0.5		0.5			
30	New Storm Manhole #10 - New Storm Manhole #11	150	If	47.00	7,050		28.50	4,275	1.5	3.0	1.5		1.5			
30	New Storm Manhole #11 - New Storm Manhole #12	360	If	47.00	16,920		19.79	7,125	2.5	5.0	2.5		2.5			
30	New Storm Manhole #12 - New Storm Manhole #13	120	If	47.00	5,640		35.63	4,275	1.5	3.0	1.5		1.5			
18	New Storm Manhole #13 - New Storm Manhole #15	60	If	16.00	960		47.50	2,850	1.0	2.0	1.0		1.0			
30	New Storm Manhole #13 - New Outfall Structure #3	40	If	47.00	1,880		35.63	1,425	0.5	1.0	0.5		0.5			
18	New Storm Manhole #15 - New Storm Manhole #14	30	If	16.00	480		47.50	1,425	0.5	1.0	0.5		0.5			
18	New Storm Manhole #14 - New Storm Outfall Structure #6	30	If	16.00	480		47.50	1,425	0.5	1.0	0.5		0.5			
					-		-	-								
	Unload and String Pipe (All Materials)	1	LS		-		6,540.00	6,540		6.0			6.0			
					-		-	-								
	Yard Hydrants	2	Ea	1,750.00	3,500		2,412.00	4,824	3.0	3.0					3.0	
					-		-	-								
	Well Installation and Piping for New Ponds	1	LS	15,000.00	15,000		-	-								
					-		-	-								
					-		-	-								
DEFAULTS & TICKLERS:																
	VALVES	-	ID	135.00	-		-	-								
	VALVE BOXES	-	EA	85.00	-		-	-								
	THRUST BLOCKS	3	EA	150.00	450		-	-								
	HAUL SPOIL		CY	5.00	-		-	-								
	TESTING	1	LS	4,500.00	4,500		5,900.00	5,900	5.0	9.0						
	ASPHALT PATCH 110#/in/sy		TON	60.00	-		-	-								
	FULL DEPTH GRANULAR	1000	TON	6.00	6,000		-	-								
	GRANULAR ENVELOPE	500	TON	12.00	6,000		-	-								
	CONCRETE ENCASMENT	-	w/above		-		-	-								
								150,559	55.5	113.0	33.0	12.0	51.0	3.0	0.0	0.0
									550	350	860	1020	740	708	700	1
					LAB/EQ	MTL/SUB		TOTAL								
					150,559.00	442,870	=	593,429	30,525	39,550	28,380	12,240	37,740	2,124	0	0
					=====	=====		=====								
					LABOR COST/FT	=	31.60									
					FT/MH	=	2.23	2,140	= TOTAL MANHOURS							
					AVE PIPE SIZE	=	29.81	4,764	= TOT. FTG.							
									OPERATOR = 420							
									LABORER = 350							
									OILER = 323							
									FITTER = 500							

Project 1-3 Improvements at Main Lift Station Site						WORK SHEET			PG _____ OF _____		EQUIP COMMENTS :							
Division 15, Exposed Pipe - Mandatory Alternate No. 3											CRANES			MAN	Track	RT		
SIZE	DESCRIPTION	QTY	UN	@	TOTAL	I.D.	COST/ I.D.	TOTAL LABOR	FMN	FTR	LAB	M-50	35 Tn	LIFT	Loader 963	Hoe 420	Other	
	Unload and String	1	LS		-	-	-	529			0.5						0.5	
	Influent Junction Structure				-	80	23.50	1,880	1.0		1.0		1.0					
20	FL x FL Spool Piece, 2' Long	2	ea	950.00	1,900	40	-	-										
20	DI Motor Actuated Valve	1	ea	24,657.00	24,657	20	-	-										
20	Flanged Coupling Adapter	1	ea	2,000.00	2,000	20	-	-										
	Influent Pipe				-													
20	FL x FL Spool Piece, 1'-0" Long	1	ea	821.60	822	204	21.76	4,440	4.0		4.0						2.0	
20	Magnetic Flowmeter	1	ea	w/ I&C	-	20	-	-										
20	Flanged Coupling Adapter	1	ea	2,000.00	2,000	20	-	-										
20	FL x FL Spool Piece, 12'-0" Long	1	ea	2,020.80	2,021	20	-	-										
24	x 20 Flanged Reducer	1	ea	1,278.95	1,279	24	-	-										
24	Stainless Steel Spool Piece	1	ea	Comag	-	24	-	-										
24	FL x FL Spool Piece, 1'-0" Long	1	ea	645.60	646	24	-	-										
24	Inline Mixing Unit	1	ea	Comag	-	24	-	-										
24	FL x FL Spool Piece, 4'-0" Lon	1	ea	1,478.40	1,478	24	-	-										
24	FL X FL Wall Pipe, 2'-0" Long	1	ea	1,902.75	1,903	24	-	-										
	Water Supply Piping				-	108	36.94	3,990	3.5		3.5						2.0	
3	Flg 90 Degree Bend	8	ea	46.45	372	24	-	-										
3	Flg Tee	3	ea	66.35	199	9	-	-										
3	FL x FL Spool Piece, 13' Long	3	ea	469.60	1,409	9	-	-										
3	FL X FL Spool Piece, 8' Long	1	ea	318.40	318	3	-	-										
3	Flg Gate Valve	2	ea	300.00	600	6	-	-										
3	Backflow Preventer	1	ea	2,500.00	2,500	3	-	-										
3	FL x FL Spool Piece, 3' Long	1	ea	167.20	167	3	-	-										
3	FL x FL Spool Piece, 12' Long	1	ea	440.00	440	3	-	-										
3	FL x FL Spool Piece, 14' Long	2	ea	500.00	1,000	6	-	-										
3	FL x FL Spool Piece, 16' Long	1	ea	550.00	550	3	-	-										
3	FL x FL Spool Piece, 10' Long	1	ea	379.20	379	3	-	-										
3	Flanged Cross	1	ea	101.19	101	3	-	-										
3	DI Blind Flange	10	ea	18.80	188	30	-	-										
3	FL x FL Spool Piece, 4' Long	1	ea	197.60	198	3	-	-										
3	FL x MJ Wall Piece, 2'-0" Long	2	ea	195.20	390	6	-	-										
6	x 3 Flanged Concentric Reducer	1	ea	91.00	91	6	-	-										
6	Flanged 90 Bend	1	ea	111.69	112	6	-	-										
6	FL x FL Spool Piece, 10'-0" Long	1	ea	379.20	379	6	-	-										
6	Flanged 90 Bend	1	ea	111.69	112	6	-	-										
	Magnetic Pump Influent Piping				-	70	28.29	1,980	1.5		1.5						1.5	
10	Flanged Tee	1	ea	416.92	417	10	-	-										
10	FL x FL Spool Piece, 1'-0" Long	2	ea	257.60	515	20	-	-										
10	Flanged 90 Bend	2	ea	291.95	584	20	-	-										
10	FL x FL Spool Piece, 4'-0" Long	2	ea	384.80	770	20	-	-										
	Magnetic Pump Discharge Piping				-	314	26.94	8,460	8.0		8.0						3.0	
10	FL x FL Spool Piece, 1' Long	2	ea	257.60	515	20	-	-										
10	Flanged Check Valve	2	ea	1,750.00	3,500	20	-	-										
10	Flanged Plug Valve	2	ea	2,450.00	4,900	20	-	-										
10	FL x FL Spool Piece, 2'-0" Long	2	ea	300.00	600	20	-	-										
10	Flanged 90 Bend	1	ea	291.95	292	10	-	-										
10	FL X FL Spool Piece, 2'-0" Long	1	ea	300.00	300	10	-	-										
10	Flanged Plug Valve	1	ea	2,450.00	2,450	10	-	-										
10	FL X FL Spool Piece, 2'-0" Long	1	ea	300.00	300	10	-	-										
10	Flanged Tee	1	ea	416.92	417	10	-	-										
10	Flanged 90 Bend	1	ea	291.95	292	10	-	-										



PROJECT: INDIANAPOLIS, IN
TERRE HAUTE WET WEATHER PROJECT/ENGINEERING I

BID:

REVISION:

ADDENDUMS:

ESTIMATOR: ERIC THOMAS

We are pleased to offer for your consideration, our proposal covering ductile iron pipe and fittings for the above referenced project.

The bill of material listed in our proposal is our interpretation of the contract drawings. It is offered as assistance in preparing your total estimate but is not guaranteed as to the final material that would actually be required. We could furnish you with piping layout drawings detailing all the the above with a bill of material which would be for approval prior to ordering and manufacturing.

C&B Piping, Inc. is a fabricator of ductile iron pipe. We will furnish and fabricate flange pipe, wall pipe and factory restrained joint cut/weld pieces for this project.

All prices are FOB factory with full truckload freight allowed to jobsite. We do not include sales or use taxes. Our payment terms are less 2% if paid in 10 days and full payment in 30 days. All past due invoices will be charged 1-1/2% interest per month.

**** ESCALATION CLAUSE ****

Push-On and Restrained Joint pipe prices are firm for 90 days from bid date. Fabricated pipe & all fitting prices are firm for 6 months from bid date. All prices are subject to increase if not ordered within the above mentioned time periods.

Note the following:

- 1) **Pipe:**
 - a) We have quoted pipe class as shown.
 - b) Flanged Pipe is quoted as Class 53, with 125# flanges

- 2) **Fittings:**
 - a) Flange: Full Body Ductile Iron 125# (ANSI/AWWA C110/A21.10)
 - b) Mechanical Joint: Compact MJ (AWWA C153)
 - c)

- 3) **Lining:**
 - a) Standard Thickness Cement (ANSI/AWWA C104/A21.4)

- 4) **Coating:**
 - a) Buried: Standard Asphalt
 - b) Exposed: Tnemec Series 140-1211, 4-6 mils dft

- 5) **Restrained Joints:**
 - a) Pipe TYTON
 - b) Ftgs MJ w/ Wedge Restraints

- 6) **Gaskets:**
 - a) Standard SBR

- b)
- 7) **Hardware (where listed)**
 - a) MJ T-Bolts for buried MJ joints are quoted as Std Low Alloy Steel
 - b) Flanged Bolts A307B Carbon Steel
 - c)
- 8) **Origin:**
 - a) Some materials quoted may be globally sourced. If domestic only materials are required, prices may be adjusted accordingly.
- 9) **Wall Pipes:**
 - a) Wall Collars thicknesses are quoted as industry standard - C&B Submittal
 - b)
- 10) **Addenda:**
 - a) None
 - a) We have not accounted or any changes made by later addenda.

QUALIFICATIONS:

IMPORTANT INFORMATION CONCERNING FLANGED PIPE

30"-64" Flange Pipe fabricated by C&B Piping, Inc will be furnished with FLANGE-TYTE® Gaskets. Failure to use this gasket will result in voiding the manufacturer's warranty.

FLANGE-TYTE® GASKET FULL FACE -1/8" THICKNESS - 3 O-RING SEAL FEATURE

	Approximate Bolt Torque (ft-lb)																
	04"	06"	08"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"	54"	60"	64"
150 PSI --->															550	600	600
250 PSI --->	90	90	90	90	90	110	110	120	120	130	140	160	585	625			
350 PSI --->	110	110	110	130	130	150	160	180	200	220							

SEQ	ADD	MARK	MARK	QUAN	UNIT	DESCRIPTION	TOTAL WEIGHT	UNIT PRICE	TOTAL PRICE
COMAG ALTERNATE									
1580				1	EA	10" FLG TEE C110 CL/PC	270.0	416.92	\$416.92
1590				2	EA	10" FLG x FLG DIP CL53 1' 0" CL/PC	226.0	257.60	\$515.20
1600				2	EA	10" FLG 90 C110 CL/PC	330.0	291.95	\$583.91
1610				2	EA	10" FLG x FLG DIP CL53 4' 0" CL/PC	476.0	384.80	\$769.60
1620									
1630						MAG. PUMP DISCH.			
1640				2	EA	10" FLG x FLG DIP CL53 1' 0" CL/PC	226.0	257.60	\$515.20
1650				2	EA	10" FLG CHECK VALVE W/OW&L		1,750.00	\$3,500.00
1660				2	EA	10" FLG PLUG VALVE W/GEAR/HW		2,450.00	\$4,900.00
1670				2	EA	10" FLG x FLG DIP CL53 2' 0" CL/PC	310.0	300.00	\$600.00
1680				1	EA	10" FLG 90 C110 CL/PC	165.0	291.95	\$291.95
1690				1	EA	10" FLG x FLG DIP CL53 2' 0" CL/PC	155.0	300.00	\$300.00
1700				1	EA	10" FLG PLUG VALVE W/GEAR/HW		2,450.00	\$2,450.00
1710				1	EA	10" FLG x FLG DIP CL53 2' 0" CL/PC	155.0	300.00	\$300.00
1720				1	EA	10" FLG TEE C110 CL/PC	270.0	416.92	\$416.92
1730				1	EA	10" FLG 90 C110 CL/PC	165.0	291.95	\$291.95
1740				1	EA	10" FLG x FLG DIP CL53 4' 0" CL/PC	238.0	384.80	\$384.80
1750				1	EA	10" FLG 90 C110 CL/PC	165.0	291.95	\$291.95
1760				1	EA	10" FLG x FLG DIP CL53 2' 0" CL/PC	155.0	300.00	\$300.00
1770				1	EA	10x04" FLG TEE C110 CL/PC	205.0	366.05	\$366.05

SEQ MARK	ADD MARK	QUAN	UNIT	DESCRIPTION	TOTAL WEIGHT	UNIT PRICE	TOTAL PRICE
1780		1	EA	10" FLG x FLG DIP CL53 2' 0" CL/PC	155.0	300.00	\$300.00
1790		1	EA	10" FLG MODULATING VALVE??JUST A GUESS		3,500.00	\$3,500.00
1800		1	EA	10" FLG x FLG DIP CL53 17' 0" CL/PC	776.0	936.80	\$936.80
1810		1	EA	10" FLG x FLG DIP CL53 1' 0" CL/PC	113.0	257.60	\$257.60
1820		1	EA	10" FLG 90 C110 CL/PC	165.0	291.95	\$291.95
1830		1	EA	10" FLG x FLG DIP CL53 4' 0" CL/PC	238.0	384.80	\$384.80
1840		1	EA	10" FLG x FLG DIP CL53 2' 0" CL/PC 1-WC 2-TF	155.0	633.53	\$633.53
1850		1	EA	10" FLG x PE DIP CL53 1' 0" CL/PC	77.0	164.00	\$164.00
1860		1	EA	04" FLG x FLG DIP CL53 0' 6" CL/PC	39.0	106.40	\$106.40
1870		1	EA	04" FLG x FLG DIP CL53 6' 0" CL/PC	114.0	212.80	\$212.80
1880		1	EA	04" FLG MODULATING VALVE/JUST A GUESS		1,500.00	\$1,500.00
1890		1	EA	04" FLG x PE DIP CL53 17' 0" CL/PC	267.0	408.00	\$408.00
1900		1	EA	04" FLG x FLG DIP CL53 3' 0" CL/PC	69.0	148.80	\$148.80
1910		1	EA	04" FLG 90 C110 CL/PC	40.0	71.88	\$71.88
1920		1	EA	04" FLG x FLG DIP CL53 2' 0" CL/PC	54.0	128.00	\$128.00
1930		2	EA	04" FLG 90 C110 CL/PC	80.0	71.88	\$143.76
1940		1	EA	04" FLG x PE DIP CL53 3' 0" CL/PC	57.0	111.20	\$111.20
1950		1	EA	04" BAKER #603 FLG CPLG ADAPTOR		350.00	\$350.00
1960		1	EA	04x03" FLG CON RED C110 CL/PC	31.0	49.21	\$49.21
1970		1	EA	06" FLG x PE DIP CL53 5' 0" CL/PC	130.0	201.60	\$201.60
1980							
1990				MAGNETIC DRAIN LINE			
2000		1	EA	04" FLG x FLG DIP CL53 2' 0" CL/PC	54.0	128.00	\$128.00
2010		1	EA	04" FLG 90 C110 CL/PC	40.0	71.88	\$71.88
2020		1	EA	04" FLG x PE DIP CL53 4' 0" CL/PC	72.0	132.00	\$132.00
2030		1	EA	04" BAKER #603 FLG CPLG ADAPTOR		350.00	\$350.00
2040		1	EA	04" FLG 90 C110 CL/PC	40.0	71.88	\$71.88
2050		1	EA	04" FLG x FLG DIP CL53 2' 0" CL/PC	54.0	128.00	\$128.00
2060		1	EA	04" FLG 90 C110 CL/PC	40.0	71.88	\$71.88
2070		1	EA	04" FLG x PE DIP CL53 17' 0" CL/PC	267.0	408.00	\$408.00
2080		1	EA	04" FLG x FLG DIP CL53 5' 0" CL/PC	99.0	191.20	\$191.20
2090		1	EA	04" FLG x PE DIP CL53 2' 0" CL/PC 1-WC 1-TTMJ BELL 1-TF	42.0	288.13	\$288.13
2100							
2110				MAGNETIC RETURN PUMP SUCTION LINE			
2120							
2130		2	EA	10" FLG x PE DIP CL53 6' 0" CL/PC	568.0	384.00	\$768.00
2140		36	FT	10" P.O. JOINT DIP CLASS 350 20' NOM CL/TC	1,022.4	22.73	\$818.26
2150		1	EA	10" MJ 45 C153 CL/TC	70.0	110.04	\$110.04
2160		2	EA	10" MJ 90 C153 CL/TC	178.0	147.64	\$295.27
2170		6	EA	10" MJ ACC SET C153	120.0	26.38	\$158.26
2180		1		TOTAL WEIGHT FOR ABOVE ITEMS	8,737.4		
2190		1		TOTAL ALL ITEMS LISTED ABOVE			\$31,085.58

City of Terre Haute, Indiana

Phase 1 Project 1-3 Improvements at Main Lift Station Project

Cost Estimate – Mandatory Alternate No. 4

City of Terre Haute, Indiana - Project 1-3 Improvements at Main Lift Station Project

Estimate of Probable Construction Costs - Mandatory Alternate No. 4 - Slab and Walls for Future Actiflo Tanks

Division	Description	Labor and Equipment Cost	Material / Subcontractor	Total Cost	Notes
2	Site Construction / Civil Work	\$ -	\$ -	\$ -	
2	Demolition	\$ -	\$ -	\$ -	
3	Concrete	\$ 2,685.00	\$ 88,382.00	\$ 91,067.00	
4	Masonry	\$ -	\$ -	\$ -	
5	Metals	\$ 1,168.00	\$ 750.00	\$ 1,918.00	
6	Wood and Plastics	\$ -	\$ -	\$ -	
7	Thermal and Moisture Protection	\$ -	\$ -	\$ -	
8	Doors and Windows	\$ -	\$ -	\$ -	
9	Finishes	\$ -	\$ -	\$ -	
10	Specialties	\$ -	\$ -	\$ -	
11	Equipment	\$ -	\$ -	\$ -	
12	Furnishings	\$ -	\$ -	\$ -	
13	Special Construction / I&C	\$ -	\$ -	\$ -	
14	Conveying Systems	\$ -	\$ -	\$ -	
15	Mechanical - Piping	\$ -	\$ -	\$ -	
15	Mechanical - HVAC	\$ -	\$ -	\$ -	
16	Electrical	\$ -	\$ -	\$ -	

Total Direct Cost \$ **92,985** \$ -

Mobilization / Demobilization	\$ -	Included in Base Bid
Small Tools	\$ 930	
Medium Tools	\$ 465	Included in Base Bid
Contractor Supervision	\$ -	
Total Project Direct Cost	\$ 94,380	

Contractors OH & Profit - 18% \$ **16,988**

Total Bid \$ **111,368**

Lump Sum Price \$ **111,368**

Contingency - 5% \$ **5,568**

Total Cost with Contingency \$ **116,937**

City of Terre Haute, Indiana

Phase 1 Project 1-3 Improvements at Main Lift Station Project

Cost Estimate – Mandatory Alternate No. 5

City of Terre Haute, Indiana - Project 1-3 Improvements at Main Lift Station Project

Estimate of Probable Construction Costs - Mandatory Alternate No. 5 - Alternate Access Drive Location (Paving Only)

Division	Description	Labor and Equipment Cost	Material / Subcontractor	Total Cost	Notes
2	Site Construction / Civil Work	\$ (2,216.00)	\$ (34,973.00)	\$ (37,189.00)	
2	Demolition	\$ -	\$ -	\$ -	
3	Concrete	\$ -	\$ -	\$ -	
4	Masonry	\$ -	\$ -	\$ -	
5	Metals	\$ -	\$ -	\$ -	
6	Wood and Plastics	\$ -	\$ -	\$ -	
7	Thermal and Moisture Protection	\$ -	\$ -	\$ -	
8	Doors and Windows	\$ -	\$ -	\$ -	
9	Finishes	\$ -	\$ -	\$ -	
10	Specialties	\$ -	\$ -	\$ -	
11	Equipment	\$ -	\$ -	\$ -	
12	Furnishings	\$ -	\$ -	\$ -	
13	Special Construction / I&C	\$ -	\$ -	\$ -	
14	Conveying Systems	\$ -	\$ -	\$ -	
15	Mechanical - Piping	\$ -	\$ -	\$ -	
15	Mechanical - HVAC	\$ -	\$ -	\$ -	
16	Electrical	\$ -	\$ -	\$ -	
			Total Direct Cost	\$ (37,189)	\$ -

Mobilization / Demobilization	\$ -	Included in Base Bid
Small Tools	\$ (372)	
Medium Tools	\$ (186)	
Contractor Supervision	\$ -	Included in Base Bid
Total Project Direct Cost	\$ (37,747)	

Contractors OH & Profit - 5% \$ (1,887)

Total Bid \$ (39,634)

Lump Sum Price	\$ (39,634)
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Contingency - 5% \$ (1,982)

Total Cost with Contingency	\$ (41,616)
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Terre Haute Project 1-3 Improvements at Main Lift Station Project

Mandatory Alternate No. 5 - Alternate Drive Location Paving

Base Bid Paving	5,920 SY
Alternate Location	4,642 SY
Total	-1,278 SY