

APPENDIX A

COST ESTIMATES

Dover High School Pedestrian Study**Cost Summary****Concept Design - July 2013**

LOCATION	ESTIMATED COST	
Forrest Avenue (Route 8)		
Phase 1A	\$129,000	
Phase 1B	\$276,000	
Phase 2	\$370,000	
SUB TOTAL		\$775,000
Mifflin Road		
Phase 1 - East Side	\$953,500	
Phase 2 - West Side	\$1,232,000	
SUB TOTAL		\$2,185,500
Hazletville Road		
Phase 1	\$258,000	
Phase 2	\$111,000	
SUB TOTAL		\$369,000
Kenton Road		
Phase 1 - East Side	\$611,500	
Phase 2 - West Side	\$768,000	
SUB TOTAL		\$1,379,500
TOTAL IMPROVEMENT COST		\$4,709,000

Dover High School Pedestrian Study
Route 8 (New Dover High School to Mifflin Road)
Concept Design - July 2013

ITEM	5' S/W ADJACENT TO CURB		
	Phase 1		Phase 2
	Phase 1A	Phase 1B	
CONSTRUCTION COST			
TOTAL BASE CONSTRUCTION COST	\$95,000	\$190,000	\$232,000
TOTAL BASE CONSTRUCTION COST	\$95,000	\$190,000	\$232,000
DELDOT STANDARD CONSTRUCTION CONTINGENCY (10% OF TOTAL CONSTRUCTION COST)	\$10,000	\$19,000	\$24,000
DELDOT CONSTRUCTION ENGINEERING/INSPECTION (10% OF TOTAL CONSTRUCTION COST)	\$10,000	\$19,000	\$24,000
TOTAL CONSTRUCTION COST	\$115,000	\$228,000	\$280,000
ESTIMATED UTILITY RELOCATIONS	\$10,000	\$30,000	\$18,000
ESTIMATED RIGHT OF WAY	\$4,000	\$18,000	\$22,000
TOTAL PROJECT COST	\$129,000	\$276,000	\$320,000
ESTIMATED DESIGN COST	DeIDOT Design In-House		\$50,000
SUMMARIZED PROJECT COST	\$405,000		\$370,000
TOTAL COMBINED PROJECT COST	\$775,000		

Phase 1 - North Side of SR 8

Phase 1A - Marsh Creek Lane to Heatherfield Way -- Install approximately 625' of sidewalk behind existing curb avoiding conflicts with utility poles and mailboxes.

Phase 1B - Stoney Drive to Cranberry Run Drive -- Install approximately 900' of sidewalk with curb and gutter. Install headwall and possibly retaining wall along steep slope.

Phase 2 - South Side of SR 8

Phase 2 - Mifflin Road to New Dover High School East Entrance -- Install approximately 1500' of sidewalk behind existing curb, relocate existing lighting and adjust drainage inlet along properties. Avoid conflicts with utility poles and mailboxes. Install pedestrian crossing across Mifflin Road.

CRPAVE, TYPE B, 160 GYRATIONS, PG 64-22,PATCHING	TON	\$85.00	0
CRPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATE STONE)	TON	\$78.00	0
ED CONCRETE PIPE, 15", CLASS IV	LF	\$85.00	0
CEMENT CONCRETE CURB, TYPE 1-6	LF	\$22.00	0
PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-8	LF	\$18.00	0
PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-6	LF	\$18.00	0
NING, 4'	EACH	\$2,500.00	2
WALK, 4"	SF	\$5.00	2,83
WALK, 6"	SF	\$7.50	598
SURFACE DETECTABLE WARNING SYSTEM	SF	\$30.00	10
2, TYPE 1	SF	\$20.00	0
2, TYPE 5	SF	\$20.00	0
INLET, 34" X 24"	EACH	\$3,500.00	0
BOX, 48" X 30"	EACH	\$1,700.00	0
AND REPAIRING EXISTING DRAINAGE INLET	EACH	\$2,000.00	0
D REPAIR EXISTING SANITARY MANHOLE	EACH	\$900.00	1
4	TON	\$65.00	1
ES, RIPRAP	SY	\$6.00	3
' DEPTH	SY	\$7.50	35
T GRASS SEEDING, DRY GROUND	SY	\$1.50	35
PROPERTY OWNER PLANTER BOXES)	LS	\$2,000.00	1
ICE OF TRAFFIC	LS	\$20,000.00	1
T PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	SF	\$10.00	1,38
T PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$1.00	1,65
ON OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	EACH	\$70.00	6
ATER VALVE BOXES	EACH	\$325.00	5
DF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB,SIDEWALK, ETC.	SY	\$18.00	10
NG, HOT MIX	LF	\$2.00	140
NG, CONCRETE, FULL DEPTH	LF	\$5.00	10
isting Fence	LF	\$20.00	0
alls	SF	\$32.00	0
	L.S.	\$15,000.00	0
Sediment Controls	L.S.	\$2,000.00	1
SUBTOTAL			
se (5%)	L.S.	\$4,072.95	1
Engineering (5%)	L.S.	\$4,072.95	1
Contingency (5%)			
TOTAL BASE CONSTRUCTION COST			
elocations	EACH	\$10,000.00	1
elocations	EACH	\$3,000.00	0
Relocations	EACH	\$2,500.00	0
TOTAL UTILITY RELOCATION COST			
- Fee	S.F.	\$8.00	0
- PE	S.F.	\$8.00	25
- TCE	S.F.	\$2.00	1,53
TOTAL RIGHT OF WAY COST			

URPAVE, TYPE B, 160 GYRATIONS, PG 64-22,PATCHING	TON	\$85.00	6
URPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATE STONE)	TON	\$78.00	0
HD CONCRETE PIPE, 15", CLASS IV	LF	\$85.00	100
CEMENT CONCRETE CURB, TYPE 2	LF	\$22.00	75
PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-8	LF	\$18.00	0
PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-6	LF	\$18.00	0
PAVING, 4'	EACH	\$2,500.00	2
WALK, 4"	SF	\$5.00	6,06
WALK, 6"	SF	\$7.50	2,02
SURFACE DETECTABLE WARNING SYSTEM	SF	\$30.00	30
INLET, TYPE 1	SF	\$20.00	0
INLET, TYPE 5	SF	\$20.00	0
MANHOLE INLET, 34" X 24"	EACH	\$3,500.00	3
MANHOLE INLET, 48" X 30"	EACH	\$1,700.00	3
INSTALL AND REPAIRING EXISTING DRAINAGE INLET	EACH	\$2,000.00	4
REPAIR EXISTING SANITARY MANHOLE	EACH	\$900.00	5
INSTALL RIPRAP	TON	\$65.00	1
INSTALL RIPRAP	SY	\$6.00	3
INSTALL RIPRAP 6" DEPTH	SY	\$7.50	639
INSTALL T GRASS SEEDING, DRY GROUND	SY	\$1.50	639
INSTALL (PROPERTY OWNER PLANTERS)	LS	\$10,000.00	1
INSTALL STRIPING OF TRAFFIC	LS	\$40,000.00	1
INSTALL STRIPING PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	SF	\$10.00	277
INSTALL STRIPING PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$1.00	3,15
INSTALL OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	EACH	\$70.00	6
INSTALL WATER VALVE BOXES	EACH	\$325.00	4
REMOVE EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB,SIDEWALK, ETC.	SY	\$18.00	0
REMOVE ASPHALT, HOT MIX	LF	\$2.00	275
REMOVE ASPHALT, CONCRETE, FULL DEPTH	LF	\$5.00	0
REMOVE Existing Fence	LF	\$20.00	0
REMOVE Utility Malls	SF	\$32.00	0
REMOVE Sediment Controls	L.S.	\$4,000.00	1
REMOVE Traffic Signal	L.S.	\$25,000.00	1
SUBTOTAL			
Insurance (5%)	L.S.	\$10,041.25	1
Engineering (5%)	L.S.	\$10,041.25	1
Contingency (5%)			
TOTAL BASE CONSTRUCTION COST			
Relocations	EACH	\$10,000.00	0
Relocations	EACH	\$3,000.00	6
Relocations	EACH	\$2,500.00	0
TOTAL UTILITY RELOCATION COST			
Permit Fee	S.F.	\$8.00	0
Permit - PE	S.F.	\$8.00	1,33
Permit - TCE	S.F.	\$2.00	5,29
TOTAL RIGHT OF WAY COST			

Dover High School Pedestrian Study		
Mifflin Road (Hazletville Road to Route 8)		
Concept Design - July 2013		
ITEM	5' S/W ADJACENT TO CURB	
	Phase 1	Phase 2
CONSTRUCTION COST		
TOTAL BASE CONSTRUCTION COST	\$633,000	\$845,000
TOTAL BASE CONSTRUCTION COST	\$633,000	\$845,000
DELDOT STANDARD CONSTRUCTION CONTINGENCY (10% OF TOTAL CONSTRUCTION COST)	\$64,000	\$85,000
DELDOT CONSTRUCTION ENGINEERING/INSPECTION (10% OF TOTAL CONSTRUCTION COST)	\$64,000	\$85,000
TOTAL CONSTRUCTION COST	\$761,000	\$1,015,000
ESTIMATED UTILITY RELOCATIONS	\$62,500	\$40,000
ESTIMATED DESIGN COST (15%)	\$115,000	\$153,000
ESTIMATED RIGHT OF WAY	\$15,000	\$24,000
TOTAL PROJECT COST	\$953,500	\$1,232,000
TOTAL COMBINED PROJECT COST	\$2,185,500	

Phase 1 - East Side of Mifflin Road

Phase 1 - Forrest Ave. to Hazletville Rd. -- Install approximately 2900' of sidewalk with curb and gutter. Adjust drainage inlets and install curb openings. Avoid conflicts with utilities and mailboxes.

Phase 2 - West Side of Mifflin Road

Phase 2 - Forrest Ave. to Hazletville Rd. -- Install approximately 3100' of sidewalk with curb and gutter. Install drainage inlets and pipe. Avoid conflicts with mailboxes.

CRPAVE, TYPE B, 160 GYRATIONS, PG 64-22,PATCHING	TON	\$85.00	20
CRPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATE STONE)	TON	\$78.00	0
ED CONCRETE PIPE, 15", CLASS IV	LF	\$85.00	86
CEMENT CONCRETE CURB, TYPE 1-6	LF	\$22.00	0
PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-8	LF	\$18.00	2,66
PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-6	LF	\$18.00	0
NING, 4'	EACH	\$2,500.00	10
WALK, 4"	SF	\$5.00	11,4
WALK, 6"	SF	\$7.50	2,36
SURFACE DETECTABLE WARNING SYSTEM	SF	\$30.00	50
2, TYPE 1	SF	\$20.00	0
2, TYPE 5	SF	\$20.00	0
INLET, 34" X 24"	EACH	\$3,500.00	14
AND REPAIRING EXISTING DRAINAGE INLET	EACH	\$2,000.00	10
D REPAIR EXISTING SANITARY MANHOLE	EACH	\$900.00	1
' DEPTH	SY	\$7.50	1,58
T GRASS SEEDING, DRY GROUND	SY	\$1.50	1,58
PROPERTY OWNER PLANTER BOXES)	LS	\$5,000.00	1
ICE OF TRAFFIC	LS	\$75,000.00	1
T PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	SF	\$10.00	417
T PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$1.00	3,15
ON OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	EACH	\$70.00	18
ATER VALVE BOXES	EACH	\$325.00	6
DF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB,SIDEWALK, ETC.	SY	\$18.00	71
NG, HOT MIX	LF	\$2.00	3,08
NG, CONCRETE, FULL DEPTH	LF	\$5.00	35
isting Fence	LF	\$20.00	0
alls	SF	\$32.00	0
Sediment Controls	LS	\$15,000.00	1
SUBTOTAL			
se (5%)	L.S.	\$24,991.65	1
Engineering (5%)	L.S.	\$24,991.65	1
Contingency (15%)			
TOTAL BASE CONSTRUCTION COST			
elocations	EACH	\$10,000.00	3
elocations	EACH	\$3,000.00	10
Relocations	EACH	\$2,500.00	1
TOTAL UTILITY RELOCATION COST			
- FEE	S.F.	\$8.00	0
- PE	S.F.	\$8.00	732
- TCE	S.F.	\$2.00	4,34
TOTAL RIGHT OF WAY COST			

Dover High School Pedestrian Study	
Mifflin Road (Woodmill Drive and Fawn Street)	
Concept Design - July 2013	
ITEM	5' S/W ADJACENT TO CURB
	Phase 1
CONSTRUCTION COST	
TOTAL BASE CONSTRUCTION COST	\$120,000
TOTAL BASE CONSTRUCTION COST	\$120,000
DELDOT STANDARD CONSTRUCTION CONTINGENCY (10% OF TOTAL CONSTRUCTION COST)	\$12,000
DELDOT CONSTRUCTION ENGINEERING/INSPECTION (10% OF TOTAL CONSTRUCTION COST)	\$12,000
TOTAL CONSTRUCTION COST	\$144,000
ESTIMATED UTILITY RELOCATIONS	\$8,500
ESTIMATED DESIGN COST	\$44,000
ESTIMATED RIGHT OF WAY	\$3,000
TOTAL PROJECT COST	\$199,500
TOTAL COMBINED PROJECT COST	\$199,500

East Side of Mifflin Road between Woodmill Drive and Fawn Street

Install approximately 600' of sidewalk with curb and gutter. Adjust drainage inlets and install curb openings. Avoid conflicts with utilities and mailboxes. Add mid block crosswalk.

CRPAVE, TYPE B, 160 GYRATIONS, PG 64-22,PATCHING	TON	\$85.00	46
CRPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATE STONE)	TON	\$78.00	0
ED CONCRETE PIPE, 15", CLASS IV	LF	\$85.00	16
CEMENT CONCRETE CURB, TYPE 1-6	LF	\$22.00	0
PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-8	LF	\$18.00	603
PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-6	LF	\$18.00	0
NING, 4'	EACH	\$2,500.00	2
WALK, 4"	SF	\$5.00	2,79
WALK, 6"	SF	\$7.50	449
SURFACE DETECTABLE WARNING SYSTEM	SF	\$30.00	40
2, TYPE 1	SF	\$20.00	0
2, TYPE 5	SF	\$20.00	0
INLET, 34" X 24"	EACH	\$3,500.00	1
AND REPAIRING EXISTING DRAINAGE INLET	EACH	\$2,000.00	2
D REPAIR EXISTING SANITARY MANHOLE	EACH	\$900.00	
' DEPTH	SY	\$7.50	536
T GRASS SEEDING, DRY GROUND	SY	\$1.50	536
PROPERTY OWNER PLANTER BOXES)	LS	\$5,000.00	0
ICE OF TRAFFIC	LS	\$15,000.00	1
T PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	SF	\$10.00	489
T PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$1.00	100
ON OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	EACH	\$70.00	10
ATER VALVE BOXES	EACH	\$325.00	3
DF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB,SIDEWALK, ETC.	SY	\$18.00	39
NG, HOT MIX	LF	\$2.00	627
NG, CONCRETE, FULL DEPTH	LF	\$5.00	74
isting Fence	LF	\$20.00	0
alls	SF	\$32.00	0
Sediment Controls	LS	\$3,000.00	1
SUBTOTAL			
se (5%)	L.S.	\$4,721.28	1
Engineering (5%)	L.S.	\$4,721.28	1
Contingency (15%)			
TOTAL BASE CONSTRUCTION COST			
elocations	EACH	\$10,000.00	0
elocations	EACH	\$3,000.00	2
Relocations	EACH	\$2,500.00	1
TOTAL UTILITY RELOCATION COST			
- FEE	S.F.	\$8.00	0
- PE	S.F.	\$8.00	200
- TCE	S.F.	\$2.00	550
TOTAL RIGHT OF WAY COST			

Dover High School Pedestrian Study		
Hazletville Road (Cannon Mill to Mifflin Road)		
Concept Design - July 2013		
ITEM	5' S/W ADJACENT TO CURB	
	Phase 1	Phase 2
CONSTRUCTION COST		
TOTAL BASE CONSTRUCTION COST	\$171,000.00	\$76,000.00
TOTAL BASE CONSTRUCTION COST	\$171,000.00	\$76,000.00
DELDOT STANDARD CONSTRUCTION CONTINGENCY (10% OF TOTAL CONSTRUCTION COST)	\$18,000	\$8,000
DELDOT CONSTRUCTION ENGINEERING/INSPECTION (10% OF TOTAL CONSTRUCTION COST)	\$18,000	\$8,000
TOTAL CONSTRUCTION COST	\$207,000	\$92,000
ESTIMATED UTILITY RELOCATIONS	\$0	\$0
ESTIMATED DESIGN COST (20%)	\$42,000	\$19,000
ESTIMATED RIGHT OF WAY	\$9,000	\$0
TOTAL PROJECT COST	\$258,000	\$111,000
TOTAL COMBINED PROJECT COST	\$369,000	

Phase 1 - North Side of Hazletville Road

Phase 1 - Install approximately 500' of sidewalk behind a proposed curb. Add inlets and drainage to tie into existing system.

Phase 2 - South Side of Hazletville Road

Phase 2 - Install approximately 700' of sidewalk offset from the roadway on top of existing berm. Berm is in an existing permanent easement.

** - This work to be funded/constructed by Nottingham Meadows developer, as directed by the City of Dover.

CRPAVE, TYPE B, 160 GYRATIONS, PG 64-22,PATCHING	TON	\$85.00	38
CRPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATE STONE)	TON	\$78.00	0
ED CONCRETE PIPE, 15", CLASS IV	LF	\$85.00	600
CEMENT CONCRETE CURB, TYPE 1-6	LF	\$22.00	0
PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-8	LF	\$18.00	0
PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-6	LF	\$18.00	492
NING, 4'	EACH	\$2,500.00	0
WALK, 4"	SF	\$5.00	1,95
WALK, 6"	SF	\$7.50	400
SURFACE DETECTABLE WARNING SYSTEM	SF	\$30.00	40
2, TYPE 1	SF	\$20.00	0
2, TYPE 5	SF	\$20.00	0
INLET, 34" X 24"	EACH	\$3,500.00	2
AND REPAIRING EXISTING DRAINAGE INLET	EACH	\$2,000.00	1
D REPAIR EXISTING SANITARY MANHOLE	EACH	\$900.00	0
' DEPTH	SY	\$7.50	283
T GRASS SEEDING, DRY GROUND	SY	\$1.50	283
	LS	\$2,000.00	0
ICE OF TRAFFIC	LS	\$25,000.00	1
T PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	SF	\$10.00	294
T PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$1.00	550
ON OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	EACH	\$70.00	2
ATER VALVE BOXES	EACH	\$325.00	0
DF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB,SIDEWALK, ETC.	SY	\$18.00	6
NG, HOT MIX	LF	\$2.00	572
NG, CONCRETE, FULL DEPTH	LF	\$5.00	10
isting Fence	LF	\$20.00	0
alls	SF	\$32.00	0
Sediment Controls	LS	\$2,000.00	1
SUBTOTAL			
se (5%)	L.S.	\$6,722.10	1
Engineering (5%)	L.S.	\$6,722.10	1
Contingency (15%)			
TOTAL BASE CONSTRUCTION COST			
elocations	EACH	\$10,000.00	0
elocations	EACH	\$3,000.00	0
Relaocations	EACH	\$2,500.00	0
TOTAL UTILITY RELOCATION COST			
- Fee	S.F.	\$8.00	0
- PE	S.F.	\$8.00	740
- TCE	S.F.	\$2.00	1,10
TOTAL RIGHT OF WAY COST			



Dover High School Pedestrian Study		
Kenton Road (Forrest Ave. to Walker Road)		
Concept Design - July 2013		
ITEM	5' S/W ADJACENT TO CURB	
	Phase 1	Phase 2
CONSTRUCTION COST		
TOTAL BASE CONSTRUCTION COST	\$379,000	\$519,000
TOTAL BASE CONSTRUCTION COST	\$379,000	\$519,000
DELDOT STANDARD CONSTRUCTION CONTINGENCY (10% OF TOTAL CONSTRUCTION COST)	\$38,000	\$52,000
DELDOT CONSTRUCTION ENGINEERING/INSPECTION (10% OF TOTAL CONSTRUCTION COST)	\$38,000	\$52,000
TOTAL CONSTRUCTION COST	\$455,000	\$623,000
ESTIMATED UTILITY RELOCATIONS	\$45,500	\$9,000
ESTIMATED DESIGN COST (20%)	\$91,000	\$125,000
ESTIMATED RIGHT OF WAY	\$20,000	\$11,000
TOTAL PROJECT COST	\$611,500	\$768,000
TOTAL COMBINED PROJECT COST	\$1,379,500	

Phase 1 - East Side of Kenton Road

Phase 1 - Forrest Ave to Walker Road -- Install approximately 1450' of sidewalk with curb and gutter. Adjust drainage inlets and install curb openings where existing drainage exists; install closed drainage in other areas. May need retaining wall at north end of project.

Phase 2 - West Side of Kenton Road

Phase 2 - Forrest Ave to Walker Road -- Install approximately 2000' of sidewalk with curb and gutter. Adjust drainage inlets and install curb openings where existing drainage exists; install closed drainage in other areas. New pedestrian crossing at Walker Rd intersection. Right of way concerns at southern project limits.

CRPAVE, TYPE B, 160 GYRATIONS, PG 64-22,PATCHING	TON	\$85.00	80
CRPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATE STONE)	TON	\$78.00	0
ED CONCRETE PIPE, 15", CLASS IV	LF	\$85.00	600
CEMENT CONCRETE CURB, TYPE 1-6	LF	\$22.00	0
PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-8	LF	\$18.00	1,03
PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-6	LF	\$18.00	0
NING, 4'	EACH	\$2,500.00	6
WALK, 4"	SF	\$5.00	7,10
WALK, 6"	SF	\$7.50	0
SURFACE DETECTABLE WARNING SYSTEM	SF	\$30.00	100
2, TYPE 1	SF	\$20.00	0
2, TYPE 5	SF	\$20.00	0
INLET, 34" X 24"	EACH	\$3,500.00	4
AND REPAIRING EXISTING DRAINAGE INLET	EACH	\$2,000.00	4
D REPAIR EXISTING SANITARY MANHOLE	EACH	\$900.00	0
' DEPTH	SY	\$7.50	785
T GRASS SEEDING, DRY GROUND	SY	\$1.50	785
	LS	\$15,000.00	1
ICE OF TRAFFIC	LS	\$50,000.00	1
T PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	SF	\$10.00	677
T PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$1.00	2,65
ON OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	EACH	\$70.00	15
ATER VALVE BOXES	EACH	\$325.00	6
DF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB,SIDEWALK, ETC.	SY	\$18.00	17
NG, HOT MIX	LF	\$2.00	1,03
NG, CONCRETE, FULL DEPTH	LF	\$5.00	30
isting Fence	LF	\$20.00	0
alls	SF	\$32.00	300
Sediment Controls	LS	\$6,000.00	1
SUBTOTAL			
se (5%)	L.S.	\$14,962.90	1
Engineering (5%)	L.S.	\$14,962.90	1
Contingency (15%)			
TOTAL BASE CONSTRUCTION COST			
elocations	EACH	\$10,000.00	4
elocations	EACH	\$3,000.00	1
Relaocations	EACH	\$2,500.00	1
TOTAL UTILITY RELOCATION COST			
- Fee	S.F.	\$8.00	0
- PE	S.F.	\$8.00	1,53
- TCE	S.F.	\$2.00	3,60
TOTAL RIGHT OF WAY COST			

RPAVE, TYPE C, 160 GYRATIONS, PG 64-22,PATCHING	TON	\$100.00	53
RPAVE, TYPE B, 160 GYRATIONS, PG 64-22,PATCHING	TON	\$85.00	156
RPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATE STONE)	TON	\$78.00	0
RD CONCRETE PIPE, 15", CLASS IV	LF	\$85.00	550
CEMENT CONCRETE CURB, TYPE 1-6	LF	\$22.00	0
PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-8	LF	\$18.00	0
PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-6	LF	\$18.00	2,04
PIPING, 4'	EACH	\$2,500.00	10
WALK, 4"	SF	\$5.00	9,87
WALK, 6"	SF	\$7.50	95
SURFACE DETECTABLE WARNING SYSTEM	SF	\$30.00	50
INLET, TYPE 1	SF	\$20.00	0
INLET, TYPE 5	SF	\$20.00	0
DRAINAGE INLET, 34" X 24"	EACH	\$3,500.00	8
DRAINAGE BOX, 48" X 30"	EACH	\$1,700.00	1
INSTALL AND REPAIRING EXISTING DRAINAGE INLET	EACH	\$2,000.00	6
REPAIR EXISTING SANITARY MANHOLE	EACH	\$900.00	0
INLET TO 4' DEPTH	SY	\$7.50	1,13
INSTALL GRASS SEEDING, DRY GROUND	SY	\$1.50	1,13
REMOVE EXISTING ASPHALT PAVEMENT	LS	\$1,000.00	1
REMOVE EXISTING TRAFFIC SIGN(S)	LS	\$60,000.00	1
INSTALL NEW TRAFFIC STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	SF	\$10.00	415
INSTALL NEW TRAFFIC STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$1.00	2,65
INSTALL OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	EACH	\$70.00	16
INSTALL WATER VALVE BOXES	EACH	\$325.00	0
REMOVE EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB,SIDEWALK, ETC.	SY	\$18.00	9
PAVEMENT, HOT MIX	LF	\$2.00	2,06
PAVEMENT, CONCRETE, FULL DEPTH	LF	\$5.00	15
REMOVE EXISTING Fence	LF	\$20.00	130
REMOVE EXISTING Walls	SF	\$32.00	0
INSTALL Sediment Controls	LS	\$3,000.00	1
INSTALL Traffic Signal	LS	\$50,000.00	1
SUBTOTAL			
Permit Fee (5%)	L.S.	\$20,505.93	1
Engineering (5%)	L.S.	\$20,505.93	1
Contingency (15%)			
TOTAL BASE CONSTRUCTION COST			
Relocations	EACH	\$10,000.00	0
Relocations	EACH	\$3,000.00	3
Relocations	EACH	\$2,500.00	1
TOTAL UTILITY RELOCATION COST			
Asphalt Fee	S.F.	\$8.00	0
Asphalt PE	S.F.	\$8.00	886
Asphalt TCE	S.F.	\$2.00	1,88
TOTAL RIGHT OF WAY COST			