

BRIDGE REPLACEMENT OPTIONS

10' x 12' Box Option Oldcastle

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 27,900.00	\$ 27,900
102	10-FOOT x 12-FOOT RC BOX CULVERT OLDCASTLE	LF	45	\$ 3,000.00	\$ 135,000
103	10-FOOT x 12-FOOT RC BOX END TYPE 1 APRON	EA	2	\$ 40,000.00	\$ 80,000
104	INSTALL CULVERT DROP WALL	EA	2	\$ 4,000.00	\$ 8,000
105	GRANULAR BEDDING MATERIAL	CY	50	\$ 38.09	\$ 1,905
106	SEED MIX 25-142 W/MNDOT EROSION CONTROL BLANKET CATEGORY 3	SY	500	\$ 3.50	\$ 1,750
107	CLASS III RIPRAP WITH GEOTEXTILE FABRIC	CY	200	\$ 85.00	\$ 17,000
108	INSTALL SEDIMENT CONTROL LOG	LF	100	\$ 14.00	\$ 1,400
109	AGGREGATE BASE (CV) (P), CLASS V (ACCESS ROAD)	CY	20	\$ 50.84	\$ 1,017
110	REMOVE CONCRETE CHANNEL STRUCTURE	EA	1	\$ 2,025.00	\$ 2,025
111	REMOVE EXISTING BRIDGE	EA	1	\$ 6,000.00	\$ 6,000
112	CLAY BORROW (P) (CV)	CY	150	\$ 12.00	\$ 1,800
SUBTOTAL CONSTRUCTION COST					\$ 283,796
10% UNFORSEEN					\$ 28,380
TOTAL CONSTRUCTION COST					\$ 312,176
TEMPORARY DAMAGES		AC	0.20	\$ 650.00	\$ 130
TOTAL 10' X 12' BOX OPTION OLDCASTLE COST					\$ 312,306

10' x 12' Box Option Cemcast

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 11,310.00	\$ 11,310
102	10-FOOT x 12-FOOT RC BOX END TYPE 1 APRON	EA	2	\$ 40,000.00	\$ 80,000
103	INSTALL CULVERT DROP WALL	EA	2	\$ 4,000.00	\$ 8,000
104	GRANULAR BEDDING MATERIAL	CY	50	\$ 38.09	\$ 1,905
105	SEED MIX 25-142 W/MNDOT EROSION CONTROL BLANKET CATEGORY 3	SY	500	\$ 3.50	\$ 1,750
106	CLASS III RIPRAP WITH GEOTEXTILE FABRIC	CY	200	\$ 85.00	\$ 17,000
107	INSTALL SEDIMENT CONTROL LOG	LF	100	\$ 14.00	\$ 1,400
108	AGGREGATE BASE (CV) (P), CLASS V (ACCESS ROAD)	CY	20	\$ 50.84	\$ 1,017
109	REMOVE CONCRETE CHANNEL STRUCTURE	EA	1	\$ 2,025.00	\$ 2,025
110	REMOVE EXISTING BRIDGE	EA	1	\$ 6,000.00	\$ 6,000
111	CLAY BORROW (P) (CV)	CY	150	\$ 12.00	\$ 1,800
112	10-FOOT x 12-FOOT RC BOX CULVERT CEMCAST	LF	45	\$ 2,300.00	\$ 103,500
SUBTOTAL CONSTRUCTION COST					\$ 235,706
10% UNFORSEEN					\$ 23,571
TOTAL CONSTRUCTION COST					\$ 259,277
TEMPORARY DAMAGES		AC	0.20	\$ 650.00	\$ 130
TOTAL 10' X 12' BOX OPTION CEMCAST IMPROVEMENT COST					\$ 259,407

Timber Panel-Lam Bridge

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 18,400.00	\$ 18,400
102	SEED MIX 25-142 W/MNDOT EROSION CONTROL BLANKET CATEGORY 3	SY	150	\$ 3.50	\$ 525
103	CLASS III RIPRAP WITH GEOTEXTILE FABRIC	CY	50	\$ 85.00	\$ 4,250
104	INSTALL SEDIMENT CONTROL LOG	LF	100	\$ 14.00	\$ 1,400
105	REMOVE CONCRETE CHANNEL STRUCTURE	EA	1	\$ 2,025.00	\$ 2,025
106	REMOVE EXISTING BRIDGE	EA	1	\$ 6,000.00	\$ 6,000
107	CONSTRUCT TIMBER PANEL-LAM BRIDGE	EA	1	\$ 267,000.00	\$ 267,000
108	CONSTRUCT TIMBER ABUTMENTS & DRIVE PILES	EA	1	\$ 84,000.00	\$ 84,000
SUBTOTAL CONSTRUCTION COST					\$ 383,600
10% UNFORSEEN					\$ 38,360
TOTAL CONSTRUCTION COST					\$ 421,960
TEMPORARY DAMAGES		AC	0.20	\$ 650.00	\$ 130
TOTAL TIMBER PANEL-LAM BRIDGE IMPROVEMENT COST					\$ 422,090

BRIDGE REPLACEMENT OPTIONS

Road Realignment

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 7,130.00	\$ 7,130
102	CONNECT EXISTING TILE (SIZE & MATERIAL MAY VARY)	EA	2	\$ 500.00	\$ 1,000
103	INSTALL 12-INCH ASI RISER ASSEMBLY W/TRASH GRATE	EA	3	\$ 1,292.60	\$ 3,878
104	INSTALL 12-INCH ASI OUTLET ASSEMBLY	EA	3	\$ 1,210.40	\$ 3,631
105	COMPACTED CLAY BORROW (P) (CV)	CY	4400	\$ 10.20	\$ 44,880
106	TOP SOIL STRIP & REDRESS (P) (EV)	CY	2650	\$ 2.50	\$ 6,625
107	ROAD EDGE SEEDING (SEED MIX: 25-142 WITH TYPE 3 MULCH)	AC	1	\$ 1,388.40	\$ 1,388
108	AGGREGATE BASE (CV) (P), CLASS V (ACCESS ROAD)	CY	1000	\$ 50.84	\$ 50,840
109	REMOVE EXISTING BRIDGE	EA	1	\$ 6,000.00	\$ 6,000
110	REMOVE AND REINSTALL EXISTING 15" HDPE SIDE INTAKE	EA	1	\$ 700.00	\$ 700
111	ROAD AND ROW GRADING AND TOPSOIL REMOVAL & DRESSING	CY	3000	\$ 7.00	\$ 21,000
112	SIDESLOPE REPAIR REDRESS AND SEEDING IN REMOVED BRIDGE AREA	LS	1	\$ 1,500.00	\$ 1,500
SUBTOTAL CONSTRUCTION COST					\$ 148,572
20% UNFORSEEN					\$ 29,714
TOTAL CONSTRUCTION COST					\$ 178,287
TEMPORARY DAMAGES		AC	0.29	\$ 650.00	\$ 189
LAND ACQUISITION/ PERMANENT DAMAGES		AC	2.64	\$ 8,000.00	\$ 21,120
TOTAL ROAD REALIGNMENT IMPROVEMENT COST					\$ 199,595

144" CMP Option Contech

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 5,950.00	\$ 5,950
102	144-INCH CORRUGATED METAL CULVERT CONTECH	LF	85	\$ 760.00	\$ 64,600
103	GRANULAR BEDDING MATERIAL	CY	50	\$ 38.09	\$ 1,905
104	SEED MIX 25-142 W/MNDOT EROSION CONTROL BLANKET CATEGORY 3	SY	500	\$ 3.50	\$ 1,750
105	CLASS III RIPRAP WITH GEOTEXTILE FABRIC	CY	100	\$ 85.00	\$ 8,500
106	INSTALL SEDIMENT CONTROL LOG	LF	100	\$ 14.00	\$ 1,400
107	AGGREGATE BASE (CV) (P), CLASS V (ACCESS ROAD)	CY	20	\$ 50.84	\$ 1,017
108	REMOVE CONCRETE CHANNEL STRUCTURE	EA	1	\$ 2,025.00	\$ 2,025
109	REMOVE EXISTING BRIDGE	EA	1	\$ 6,000.00	\$ 6,000
110	CLAY BORROW (P) (CV)	CY	150	\$ 12.00	\$ 1,800
111	CONCRETE SLOPED HEADWALL (CAST IN PLACE)	CY	150	\$ 140.00	\$ 21,000
112	INSTALL CULVERT DROP WALL (CAST IN PLACE)	EA	2	\$ 4,000.00	\$ 8,000
SUBTOTAL CONSTRUCTION COST					\$ 123,946
20% UNFORSEEN					\$ 24,789
TOTAL CONSTRUCTION COST					\$ 148,736
TEMPORARY DAMAGES		AC	0.20	\$ 650.00	\$ 130
TOTAL 144" CMP OPTION CONTECH IMPROVEMENT COST					\$ 148,866



BRIDGE REPLACEMENT OPTIONS
144" CMP Option TrueNorth

Item No.	Item	Unit	Quantity	Unit Price	Amount
101	MOBILIZATION	LS	1	\$ 6,330.00	\$ 6,330
102	144-INCH CORRUGATED METAL CULVERT TRUENORTH	LF	85	\$ 850.00	\$ 72,250
103	GRANULAR BEDDING MATERIAL	CY	50	\$ 38.09	\$ 1,905
104	SEED MIX 25-142 W/MNDOT EROSION CONTROL BLANKET	SY	500	\$ 3.50	\$ 1,750
105	CLASS III RIPRAP WITH GEOTEXTILE FABRIC	CY	100	\$ 85.00	\$ 8,500
106	INSTALL SEDIMENT CONTROL LOG	LF	100	\$ 14.00	\$ 1,400
107	AGGREGATE BASE (CV) (P), CLASS V (ACCESS ROAD)	CY	20	\$ 50.84	\$ 1,017
108	REMOVE CONCRETE CHANNEL STRUCTURE	EA	1	\$ 2,025.00	\$ 2,025
109	REMOVE EXISTING BRIDGE	EA	1	\$ 6,000.00	\$ 6,000
110	CLAY BORROW (P) (CV)	CY	150	\$ 12.00	\$ 1,800
111	CONCRETE SLOPED HEADWALL (CAST IN PLACE)	CY	150	\$ 140.00	\$ 21,000
112	INSTALL CULVERT DROP WALL (CAST IN PLACE)	EA	2	\$ 4,000.00	\$ 8,000
SUBTOTAL CONSTRUCTION COST					\$ 131,976
20% UNFORSEEN					\$ 26,395
TOTAL CONSTRUCTION COST					\$ 158,372
TEMPORARY DAMAGES		AC	0.20	\$ 650.00	\$ 130
TOTAL 144" CMP OPTION TRUENORTH IMPROVEMENT COST					\$ 158,502

BRIDGE REPLACEMENT COST OPTIONS

Oldcastle Box Culvert	\$ 312,306
Cemcast Box Culvert	\$ 259,407
Timber Bridge	\$ 422,090
Road Realignment	\$ 199,595
144" CMP Option Contech	\$ 148,866
144" CMP Option TrueNorth	\$ 158,502