TYPICAL PROJECT ELEMENTS

MOBILIZATION
TRAFFIC CONTROL
EROSION CONTROL
CLEARING AND GRUBBING
CONSTRUCTION ENGINEERING
CONTINGENCY
SOFT COSTS (DESIGN ENGINEERING)
SOFT COSTS (DESIGN ENGINEERING, PERMITTING)
ROW

REMOVALS

REMOVE ASPHALT PAVEMENT

REMOVE CONCRETE CURB & GUTTER

REMOVE CONCRETE SIDEWALK

REMOVE LANE LINE STRIPE

REMOVE PAVEMENT MARKING

REMOVE LANDSCAPED MEDIAN

REMOVE CATCH BASIN

REMOVE SIGN

MODIFICATIONS

MODIFY EXISTING UNDERGROUND DRAINAGE SYSTEM MODIFY BIKE/PED CONNECTIONS - MINOR INTERSECTION MODIFY BIKE/PED CONNECTIONS - MAJOR INTERSECTION WIDEN SHOULDER WITH AGGREGATE BASE WIDEN EXISTING BRIDGE

INSTALLS - DRAINAGE

INSTALL UNDERGROUND PIPE/INLET DRAINAGE SYSTEM INSTALL CATCH BASIN INSTALL BIO-SWALE INFILTRATION

INSTALLS - CIVIL

INSTALL ASPHALT PAVEMENT

INSTALL CONCRETE SIDEWALK

INSTALL CONCRETE CURB & GUTTER

INSTALL CONCRETE MEDIAN

INSTALL CONCRETE CURB EXTENSION - PARTIAL CORNER

(INCLUSIVE OF ROAD/SIDEWALK/STORM RECONSTRUCTION COSTS)

INSTALL CONCRETE CURB EXTENSION - FULL CORNER

(INCLUSIVE OF ROAD/SIDEWALK/STORM RECONSTRUCTION COSTS)

INSTALL LANDSCAPED MEDIAN

INSTALL RETAINING WALL, 0-4 FT HEIGHT

INSTALL RETAINING WALL, 4-8 FT HEIGHT

INSTALL 30' WIDE RAILROAD UNDERPASS

INSTALL TRAIL EXTENSION

INSTALLS - CURB RAMPS

INSTALL ADA CURB RAMP
INSTALL ADA CURB RAMP

(INCLUSIVE OF ROAD/SIDEWALK RECONSTRUCTION COSTS)

INSTALLS - STRIPING

INSTALL LANE LINE STRIPE

INSTALL 8" INTERNAL BUFFER HATCH MARKING

INSTALL 1' WIDE STOP LINE

INSTALL BIKE LANE SYMBOL AND ARROW MARKING

INSTALL PEDESTRIAN LANE SYMBOL AND BI-DIRECTIONAL ARROW MARKING

INSTALL SHARED LANE MARKING

INSTALL TURN ARROW PAVEMENT MARKING

INSTALL MARKED CROSSWALK

INSTALLS - SIGNS, POSTS, BEACONS, SIGNALS, LIGHTING

INSTALL FLEXIBLE DELINEATOR

INSTALL STOP SIGN

INSTALL BIKE LANE SIGN

INSTALL NO PARKING SIGN

INSTALL CROSSWALK WARNING SIGN

INSTALL SET OF RRFBs

INSTALL HAWK/PHB - SIDE-MOUNTED

INSTALL HAWK/PHB - OVERHEAD MOUNTED

INSTALL TRAFFIC SIGNAL

INSTALL STREET LIGHTING - ONE LUMINAIRE

INSTALL STREET LIGHTING - ONE SIDED ALONG ROADWAY

ASSUMED %

10%

15%

2%

1%

15%

40%

15% 20%

5%

MEASUREMENT COST/UNIT

SF	\$ 5
	5
LF	\$ 7
SF	\$ 7
LF	\$ 3
SF	\$ 5
SF	\$ 5
EA	\$ 500
EA	\$ 100

MEASUREMENT COST/UNIT

LF	\$ 80
EA	\$ 100,000
EA	\$ 200,000
CY	\$ 60
SF	\$ 200

MEASUREMENT COST/UNIT

LF	\$ 145
EA	\$ 10,000
SF	\$ 50

MEASUREMENT COST/UNIT

SF SF LF SF	\$ \$ \$ \$ \$	10 30 50 30
EA	\$	5,000
EA	\$	10 000
L/\	Ф	10,000
	•	
SF	\$	45
	\$ \$	
SF	\$ \$ \$	45
SF SF	\$ \$	45 80

MEASUREMENT COST/UNIT

EA	\$ 6,000
EA	\$ 10,000

MEASUREMENT	CC	ST/UNIT
LF	\$	2
LF	\$	2
LF	\$	10
EA	\$	250
EA	\$	300
EA	\$	250
EA	\$	250
SF	\$	10
MEASUREMENT	CC	ST/UNIT
		31/ OIII
EA	\$	50
		•
EA	\$	50
EA EA	\$ \$	50 250
EA EA EA	\$ \$ \$	50 250 250
EA EA EA EA	\$ \$ \$	50 250 250 150
EA EA EA EA	\$ \$ \$ \$	50 250 250 150 250
EA EA EA EA EA	\$ \$ \$ \$ \$ \$	50 250 250 150 250 20,000
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