

Conceptual Engineering Cost Estimate

Detailed Cost Estimate Breakdown per FRA Categories

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Iowa DOT Bid Tabs

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Wyanet Connection Cost Estimate

Colona Cost Estimate

Station Cost Estimates

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Cat.	Description	Iowa Cost	Illinois Cost	Total Cost
10	TRACK STRUCTURES & TRACK			
10.01	Track Structure: Viaduct	\$ -	\$ -	\$ -
10.02	Track Structure: Major/Movable Bridge	\$ -	\$ -	\$ -
10.03	Track Structure: Undergrade Bridges	\$ 790,500	\$ -	\$ 790,500
10.04	Track Structure: Culverts and Drainage Structures	\$ 223,000	\$ 121,000	\$ 344,000
10.05	Track Structure: Cut and Fill (> 4' height/depth)	\$ -	\$ -	\$ -
10.06	Track Structure: At-Grade (grading and subgrade stabilization)	\$ 427,840	\$ 2,153,060	\$ 2,580,900
10.07	Track Structure: Tunnel	\$ -	\$ -	\$ -
10.08	Track Structure: Retaining Walls and Systems	\$ -	\$ 150,000	\$ 150,000
10.18	Other Linear Structures including Fencing, Sound Walls	\$ 50,000	\$ 50,000	\$ 100,000
	Bridges, Tunnels, and Other Structures Subcategory Total	\$ 1,491,340	\$ 2,474,060	\$ 3,965,400
10.09	Track New Construction: Conventional Ballasted	\$ 4,920,160	\$ 13,075,040	\$ 17,995,200
10.10	Track New Construction: Non-ballasted	\$ -	\$ -	\$ -
10.11	Track Rehabilitation: Ballast and surfacing	\$ 2,755,000	\$ 3,577,000	\$ 6,332,000
10.12	Track Rehabilitation: Ditching and Drainage	\$ 100,000	\$ 10,000	\$ 110,000
10.13	Track Rehabilitation: Component Replacement (rail, ties, etc)	\$ 6,157,000	\$ 6,010,000	\$ 12,167,000
10.14	Track: Special Track Work (switches, turnouts, insulated joints)	\$ 3,120,000	\$ 9,525,000	\$ 12,645,000
10.15	Track: Major Interlockings	\$ -	\$ 8,800,000	\$ 8,800,000
10.16	Track: Switch Heaters (with power and control)	\$ -	\$ -	\$ -
10.17	Track: Vibration and Noise Dampening	\$ -	\$ -	\$ -
	Track Construction and Rehabilitation Subcategory Total	\$ 17,052,160	\$ 40,997,040	\$ 58,049,200
	Category 10 Contingency	\$ 3,708,700	\$ 8,694,300	\$ 12,403,000
	Total for Category 10 TRACK STRUCTURES & TRACK	\$ 22,252,200	\$ 52,165,400	\$ 74,417,600
20	STATIONS, TERMINALS, INTERMODAL			
20.01	Station Buildings: Intercity passenger rail only	\$ -	\$ 150,000	\$ 150,000
20.02	Station Buildings: Joint use (commuter rail, intercity bus)	\$ -	\$ 185,000	\$ 185,000
20.03	Platforms	\$ 872,000	\$ 1,384,000	\$ 2,256,000
20.04	Elevators, escalators	\$ -	\$ -	\$ -
20.05	Joint commercial development	\$ -	\$ -	\$ -
20.06	Pedestrian / bike access and accomodation, landscaping, parking	\$ 751,600	\$ 461,000	\$ 1,212,600
20.07	Automobile, bus, van accessways including roads	\$ 245,000	\$ 350,000	\$ 595,000
20.08	Fare collection systems and equipment	\$ 78,000	\$ 104,000	\$ 182,000
20.09	Station security	\$ -	\$ -	\$ -
	Category 20 Contingency	\$ 584,000	\$ 790,200	\$ 1,374,200
	Total for Category 20 STATIONS, TERMINALS, INTERMODAL	\$ 2,530,600	\$ 3,424,200	\$ 5,954,800

Cat.	Description	Iowa Cost	Illinois Cost	Total Cost
30	SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS			
30.01	Administration building: Office, sales, storage, revenue counting	\$ -	\$ -	\$ -
30.02	Light Maintenance Facility	\$ 2,550,000	\$ -	\$ 2,550,000
30.03	Heavy Maintenance Facility	\$ -	\$ -	\$ -
30.04	Storage or Maintenance-of-Way building/bases	\$ -	\$ -	\$ -
30.05	Yard and yard track	\$ -	\$ -	\$ -
	Category 30 Contingency	\$ 765,000	\$ -	\$ 765,000
	Total for Category 30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	\$ 3,315,000	\$ -	\$ 3,315,000
40	SITWORK, RIGHT OF WAY, LAND, EXISTING IMPROVEMENTS			
40.07	Purchase or lease of real estate	\$ 700,000	\$ 1,470,000	\$ 2,170,000
	Purchase or lease of real estate Subcategory Total	\$ 700,000	\$ 1,470,000	\$ 2,170,000
40.01	Demolition, clearing, site preparation	\$ 425,550	\$ 625,425	\$ 1,050,975
40.02	Site utilities, utility relocation	\$ 225,000	\$ 865,000	\$ 1,090,000
40.03	Hazardous material, contaminated soil removal/mitigation, ground water treatments	\$ 125,000	\$ 125,000	\$ 250,000
40.04	Environmental mitigation: wetlands, historic/archeology, parks	\$ 250,000	\$ 2,950,000	\$ 3,200,000
40.05	Site structures including retaining walls, sound walls	\$ 400,000	\$ -	\$ 400,000
40.06	Temporary facilities and other indirect costs during construction	\$ -	\$ -	\$ -
40.08	Highway/pedestrian overpass/grade separations	\$ -	\$ -	\$ -
40.09	Relocation of existing households and businesses	\$ -	\$ -	\$ -
	All other Sitework, ROW, Existing Improvements Subcategory Total	\$ 1,425,550	\$ 4,565,425	\$ 5,990,975
	Category 40 Contingency	\$ 637,700	\$ 1,810,700	\$ 2,448,300
	Total for Category 40 SITWORK, RIGHT OF WAY, LAND, EXISTING IMPROVEMENTS	\$ 2,763,250	\$ 7,846,125	\$ 10,609,275
50	COMMUNICATIONS & SIGNALING			
50.01	Wayside signaling equipment	\$ 13,583,000	\$ 28,519,000	\$ 42,102,000
50.02	Signal power access and distribution	\$ -	\$ -	\$ -
50.03	On-board signaling equipment	\$ -	\$ -	\$ -
50.04	Traffic control and dispatching systems	\$ 3,150,000	\$ 1,550,000	\$ 4,700,000
50.05	Communications	\$ 1,000,000	\$ 1,000,000	\$ 2,000,000
50.06	Grade crossing protection	\$ 11,857,000	\$ 11,028,000	\$ 22,885,000
50.07	Hazard detectors (dragging equipment, slide, etc.)	\$ -	\$ -	\$ -
50.08	Station train approach warning system	\$ -	\$ -	\$ -
	Category 50 Contingency	\$ 5,918,000	\$ 8,419,400	\$ 14,337,400
	Total for Category 50 COMMUNICATIONS & SIGNALING	\$ 35,508,000	\$ 50,516,400	\$ 86,024,400

Cat.	Description	Iowa Cost	Illinois Cost	Total Cost
60	ELECTRIC TRACTION			
60.01	Traction power transmission: High voltage	\$ -	\$ -	\$ -
60.02	Traction power supply: Substations	\$ -	\$ -	\$ -
60.03	Traction power distribution: Catenary and third rail	\$ -	\$ -	\$ -
60.04	Traction power control	\$ -	\$ -	\$ -
	Category 60 Contingency	\$ -	\$ -	\$ -
	Total for Category 60 ELECTRIC TRACTION	\$ -	\$ -	\$ -
70	VEHICLES			
70.00	Vehicle acquisition: Electric locomotive	\$ -	\$ -	\$ -
70.01	Vehicle acquisition: Non-electric locomotive	\$ 4,050,000	\$ 10,950,000	\$ 15,000,000
70.02	Vehicle acquisition: Electric multiple unit	\$ -	\$ -	\$ -
70.03	Vehicle acquisition: Diesel multiple unit	\$ -	\$ -	\$ -
70.04	Veh acq: Loco-hauled passenger cars w/ ticketed space	\$ 5,265,000	\$ 14,235,000	\$ 19,500,000
70.05	Veh acq: Loco-hauled passenger cars w/o ticketed space	\$ 2,430,000	\$ 6,570,000	\$ 9,000,000
70.06	Vehicle acquisition: Maintenance of way vehicles	\$ -	\$ -	\$ -
70.07	Vehicle acquisition: Non-railroad support vehicles	\$ -	\$ -	\$ -
	Vehicle Acquisition Subcategory Total	\$ 11,745,000	\$ 31,755,000	\$ 43,500,000
70.08	Vehicle refurbishment: Electric locomotive	\$ -	\$ -	\$ -
70.09	Vehicle refurbishment: Non-electric locomotive	\$ -	\$ -	\$ -
70.1	Vehicle refurbishment: Electric multiple unit	\$ -	\$ -	\$ -
70.11	Vehicle refurbishment: Diesel multiple unit	\$ -	\$ -	\$ -
70.12	Veh refurb: Loco-hauled passenger cars w/ ticketed space	\$ -	\$ -	\$ -
70.13	Veh refurb: Loco-hauled passenger cars w/o ticketed space	\$ -	\$ -	\$ -
70.14	Vehicle refurbishment: Maintenance of way vehicles	\$ -	\$ -	\$ -
70.15	Spare parts	\$ 1,174,500	\$ 3,175,500	\$ 4,350,000
	Vehicle Refurbishment Subcategory Total	\$ 1,174,500	\$ 3,175,500	\$ 4,350,000
	Category 70 Contingency	\$ 3,875,900	\$ 10,479,200	\$ 14,355,000
	Total for Category 70 VEHICLES	\$ 16,795,400	\$ 45,409,700	\$ 62,205,000

Cat.	Description	Iowa Cost	Illinois Cost	Total Cost
80	PROFESSIONAL SERVICES			
80.01	Service Development Plan/Service Environmental	\$ -	\$ -	\$ -
	Service Development Plan/Service Environmental Subcategory Total	\$ -	\$ -	\$ -
80.02	Preliminary Engineering/Project Environmental	\$ 1,776,700	\$ 3,186,100	\$ 4,962,800
	Preliminary Engineering/Project Environmental Subcategory Total	\$ 1,776,700	\$ 3,186,100	\$ 4,962,800
80.03	Final Design	\$ 4,951,800	\$ 7,245,100	\$ 12,196,900
	Final Design Subcategory Total	\$ 4,951,800	\$ 7,245,100	\$ 12,196,900
80.04	Project management for design and construction	\$ 1,872,100	\$ 3,897,500	\$ 5,769,600
80.05	Construction administration & management	\$ 1,309,800	\$ 2,609,900	\$ 3,919,700
80.06	Professional liability and other non-construction insurance	\$ -	\$ -	\$ -
80.07	Legal; Permits; Review Fees by other agencies, cities, etc.	\$ -	\$ -	\$ -
80.08	Surveys, testing, investigation	\$ -	\$ -	\$ -
80.09	Engineering inspection	\$ -	\$ -	\$ -
80.10	Start up	\$ -	\$ -	\$ -
	All Other Professional Services Subcategory Total	\$ 3,181,900	\$ 6,507,400	\$ 9,689,300
	Category 80 Contingency	\$ 495,600	\$ 847,000	\$ 1,342,500
	Total for Category 80 PROFESSIONAL SERVICES	\$ 10,406,000	\$ 17,785,600	\$ 28,191,500
	Subtotal (10-80)	\$ 93,570,450	\$ 177,147,425	\$ 270,717,575
90	UNALLOCATED CONTINGENCY (5%)	\$ 4,678,600	\$ 8,857,400	\$ 13,535,900
	Subtotal (10-90)	\$ 98,249,050	\$ 186,004,825	\$ 284,253,475
100	FINANCE CHARGES			\$ -
	TOTAL CAPITAL COSTS (10-100)	\$ 98,249,050	\$ 186,004,825	\$ 284,253,475

Cat.	Description	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost	Detailed Description	Unit Cost Documentation
10	TRACK STRUCTURES & TRACK										
10.01	Track Structure: Viaduct						\$ -	\$ -	\$ -		
10.02	Track Structure: Major/Movable Bridge						\$ -	\$ -	\$ -		
10.03	Track Structure: Undergrade Bridges						\$ 790,500	\$ -	\$ 790,500		
10.04	Track Structure: Culverts and Drainage Structures						\$ 223,000	\$ 121,000	\$ 344,000		
10.05	Track Structure: Cut and Fill (> 4' height/depth)						\$ -	\$ -	\$ -		
10.06	Track Structure: At-Grade (grading and subgrade stabilization)						\$ 427,840	\$ 2,153,060	\$ 2,580,900		
10.07	Track Structure: Tunnel						\$ -	\$ -	\$ -		
10.08	Track Structure: Retaining Walls and Systems						\$ -	\$ 150,000	\$ 150,000		
10.18	Other Linear Structures including Fencing, Sound Walls						\$ 50,000	\$ 50,000	\$ 100,000		
	Bridges, Tunnels, and Other Structures Subcategory Total						\$ 1,491,340	\$ 2,474,060	\$ 3,965,400		
10.09	Track New Construction: Conventional Ballasted						\$ 4,920,160	\$ 13,075,040	\$ 17,995,200	See detailed description below	
10.10	Track New Construction: Non-ballasted						\$ -	\$ -	\$ -		
10.11	Track Rehabilitation: Ballast and surfacing						\$ 2,755,000	\$ 3,577,000	\$ 6,332,000		
10.12	Track Rehabilitation: Ditching and Drainage						\$ 100,000	\$ 10,000	\$ 110,000		
10.13	Track Rehabilitation: Component Replacement (rail, ties, etc)						\$ 6,157,000	\$ 6,010,000	\$ 12,167,000		
10.14	Track: Special Track Work (switches, turnouts, insulated joints)						\$ 3,120,000	\$ 9,525,000	\$ 12,645,000		
10.15	Track: Major Interlockings						\$ -	\$ 8,800,000	\$ 8,800,000		
10.16	Track: Switch Heaters (with power and control)						\$ -	\$ -	\$ -		
10.17	Track: Vibration and Noise Dampening						\$ -	\$ -	\$ -		
	Track Construction and Rehabilitation Subcategory Total						\$ 17,052,160	\$ 40,997,040	\$ 58,049,200		
	Category 10 Contingency						20% \$ 3,708,700	\$ 8,694,300	\$ 12,403,000		
	Total for Category 10 TRACK STRUCTURES & TRACK						\$ 22,252,200	\$ 52,165,400	\$ 74,417,600		
10.01	Track Structure: Viaduct										
	Not Applicable										
10.02	Track Structure: Major/Movable Bridge										
	Not Applicable										
10.03	Track Structure: Undergrade Bridges						Total: \$ 790,500	\$ -	\$ 790,500		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Replace Rail Fasteners: MP 182.76 (Brady Street)	1		1	L Sum	\$ 50,000	\$ 50,000	\$ -	\$ 50,000	steel bridges with direct mounting; allowance for misc. replacement & improvements to accommodate HSR	prior experience
	Replace Rail Fasteners: MP 182.83 (Main Street)	1		1	L Sum	\$ 50,000	\$ 50,000	\$ -	\$ 50,000	steel bridges with direct mounting; allowance for misc. replacement & improvements to accommodate HSR	prior experience
	Replace Rail Fasteners: MP 182.91 (Harrison Street)	1		1	L Sum	\$ 50,000	\$ 50,000	\$ -	\$ 50,000	steel bridges with direct mounting; allowance for misc. replacement & improvements to accommodate HSR	prior experience
	Deck Replacement: Bridge 184.2	108		108	FT	\$ 1,500	\$ 162,000	\$ -	\$ 162,000	open deck bridges: replace bridge ties (10"x10"x12') and walkway/handrails. Replace bridge stringers (if necessary)	prior experience
	Deck Replacement: Bridge 184.5	47		47	FT	\$ 1,500	\$ 70,500	\$ -	\$ 70,500	open deck bridges: replace bridge ties (10"x10"x12') and walkway/handrails. Replace bridge stringers (if necessary)	prior experience
	Deck Replacement: Bridge 186.6	65		65	FT	\$ 1,500	\$ 97,500	\$ -	\$ 97,500	open deck bridges: replace bridge ties (10"x10"x12') and walkway/handrails. Replace bridge stringers (if necessary)	prior experience
	Deck Replacement: Bridge 203.2	44		44	FT	\$ 1,500	\$ 66,000	\$ -	\$ 66,000	open deck bridges: replace bridge ties (10"x10"x12') and walkway/handrails. Replace bridge stringers (if necessary)	prior experience
	Deck Replacement: Bridge 211.4	75		75	FT	\$ 1,500	\$ 112,500	\$ -	\$ 112,500	open deck bridges: replace bridge ties (10"x10"x12') and walkway/handrails. Replace bridge stringers (if necessary)	prior experience
	Deck Replacement: Bridge 225.9	88		88	FT	\$ 1,500	\$ 132,000	\$ -	\$ 132,000	open deck bridges: replace bridge ties (10"x10"x12') and walkway/handrails. Replace bridge stringers (if necessary)	prior experience
10.04	Track Structure: Culverts and Drainage Structures						Total: \$ 223,000	\$ 121,000	\$ 344,000		

Cat.	Description	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost	Detailed Description	Unit Cost Documentation
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Replace 19' IBS with Pipe Culvert (MP 139.9)		1	1	L Sum	\$ 43,500	\$ -	\$ 43,500	\$ 43,500		IaDOT Bid Tab Reference # 2417-1040072 with 10% allowance for excavation, backfill, compaction and granular bedding
	Eola Yard Culvert Extension		1	1	L Sum	\$ 2,500	\$ -	\$ 2,500	\$ 2,500	Eola Yard Cost Estimate	Eola Yard Cost Estimate
	Replace 4'x4.5' RCB with Pipe Culvert (MP 197.3)	1		1	L Sum	\$ 26,000	\$ 26,000	\$ -	\$ 26,000		IaDOT Bid Tab Reference # 24152110404 with 10% allowance for excavation, backfill, compaction and granular bedding
	Replace 8'x8' RCB with Pipe Culvert (MP 233.8)	1		1	L Sum	\$ 13,000	\$ 13,000	\$ -	\$ 13,000		IaDOT Bid Tab Reference # 2415-2100000 with 10% allowance for excavation, backfill, compaction and granular bedding
	Concrete Repair Work (MP 203.2)	1		1	L Sum	\$ 10,000	\$ 10,000	\$ -	\$ 10,000	Allowance for Miscellaneous Concrete Repair	prior experience
	Extend 8'x6.5' RCB (MP 234.10)	1		1	L Sum	\$ 13,000	\$ 13,000	\$ -	\$ 13,000		IaDOT Bid Tab Reference # 2415-2100000 with 10% allowance for excavation, backfill, compaction and granular bedding
	Extend 36" Pipe Culvert (MP 233.90)	1		1	L Sum	\$ 3,000	\$ 3,000	\$ -	\$ 3,000		IaDOT Bid Tab Reference # 2416-1180036 with 10% allowance for excavation, backfill, compaction and granular bedding
	Extend 8'x8' RCB (MP 233.80)	1		1	L Sum	\$ 13,000	\$ 13,000	\$ -	\$ 13,000		IaDOT Bid Tab Reference # 2415-2100000 with 10% allowance for excavation, backfill, compaction and granular bedding
	Extend 8'x6' RCB (MP 231.70)	1		1	L Sum	\$ 13,000	\$ 13,000	\$ -	\$ 13,000		IaDOT Bid Tab Reference # 2415-2100000 with 10% allowance for excavation, backfill, compaction and granular bedding
	Extend 36" Pipe Culvert (MP 231.40)	1		1	L Sum	\$ 3,000	\$ 3,000	\$ -	\$ 3,000		IaDOT Bid Tab Reference # 2416-1180036 with 10% allowance for excavation, backfill, compaction and granular bedding
	Extend 6'x5.5' RCB (MP 231.10)	1		1	L Sum	\$ 13,000	\$ 13,000	\$ -	\$ 13,000		IaDOT Bid Tab Reference # 24152110404 with 10% allowance for excavation, backfill, compaction and granular bedding
	Extend 48" Pipe Culvert (MP 230.60)	1		1	L Sum	\$ 13,000	\$ 13,000	\$ -	\$ 13,000		IaDOT Bid Tab Reference # 24152110404
	Extend 36" Pipe Culvert (MP 230.60)	1		1	L Sum	\$ 3,000	\$ 3,000	\$ -	\$ 3,000		IaDOT Bid Tab Reference # 2416-1180036 with 10% allowance for excavation, backfill, compaction and granular bedding
	Extend 4'x4' RCB (MP 230.40)	1		1	L Sum	\$ 25,000	\$ 25,000	\$ -	\$ 25,000		IaDOT Bid Tab Reference # 24152110404 with 10% allowance for excavation, backfill, compaction and granular bedding
	Misc Other Drainage Work	0.5	0.5	1	L Sum	\$ 150,000	\$ 75,000	\$ 75,000	\$ 150,000	Allowance for Miscellaneous Grading for Culvert and Drainage Materials	prior experience
10.05	Track Structure: Cut and Fill (> 4' height/depth)										
	Not Applicable										
10.06	Track Structure: At-Grade (grading and subgrade stabilization)					Total:	\$ 427,840	\$ 2,153,060	\$ 2,580,900		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Iowa City Station Bypass	1,120		1,120	TF	\$ 20	\$ 22,400	\$ -	\$ 22,400		

Cat.	Description	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost	Detailed Description	Unit Cost Documentation
	Iowa City 1st Street Connection	765		765	TF	\$ 20	\$ 15,300	\$ -	\$ 15,300	clear & grub and site preparation to construct new tracks to existing embankment; cost to be refined on specific design and site conditions	prior experience
	Iowa City Industrial Complex Siding Extension	5,777		5,777	TF	\$ 20	\$ 115,540	\$ -	\$ 115,540		
	American Siding	12,280		12,280	TF	\$ 20	\$ 245,600	\$ -	\$ 245,600		
	Walcott Siding Extension	1,450		1,450	TF	\$ 20	\$ 29,000	\$ -	\$ 29,000		
	Rock Island Yard Bypass Mainline		4,220	4,220	TF	\$ 20	\$ -	\$ 84,400	\$ 84,400		
	Rock Island Yard Replacement Track		3,770	3,770	TF	\$ 20	\$ -	\$ 75,400	\$ 75,400		
	Moline 2nd Main (MP 178.36 - 180.44)		10,858	10,858	TF	\$ 20	\$ -	\$ 217,160	\$ 217,160		
	Moline Main Track Realignment		3,381	3,381	TF	\$ 20	\$ -	\$ 67,620	\$ 67,620		
	Moline 2nd Main (MP 175.34-177.18)		11,702	11,702	TF	\$ 20	\$ -	\$ 234,040	\$ 234,040		
	Moline Siding Replacement Track at Sylvis Yard		7,147	7,147	TF	\$ 20	\$ -	\$ 142,940	\$ 142,940		
	Eola Yard Earthwork and Subballast		20,804	20,804	TF	\$ 64	\$ -	\$ 1,331,500	\$ 1,331,500	Eola Yard Cost Estimate	Eola Yard Cost Estimate
10.07	Track Structure: Tunnel										
	Not Applicable										
10.08	Track Structure: Retaining Walls and Systems					Total:	\$ -	\$ 150,000	\$ 150,000		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Crash Wall for IL-5/92 Overpass		1	1	L Sum	\$ 150,000	\$ -	\$ 150,000	\$ 150,000	State Highway 4 lane overpass; allowance for 80'x12' crash wall (12' or greater off track center)	prior experience
10.18	Other Linear Structures including Fencing, Sound Walls					Total:	\$ 50,000	\$ 50,000	\$ 100,000		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Fencing Allowance	0.5	0.5	1	L Sum	\$ 100,000	\$ 50,000	\$ 50,000	\$ 100,000	Primarily barbed wire with minimal chain link fencing; allowance to address potential costs	prior experience
10.09	Track New Construction: Conventional Ballasted					Total:	\$ 4,920,160	\$ 13,075,040	\$ 17,995,200		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Iowa City Station Bypass	1,120		1,120	TF	\$ 230	\$ 257,600	\$ -	\$ 257,600	12" Track Ballast (\$31/TF); Wood RR Ties 24" OC (\$60 each); Rail #115 RE (CWR) (\$105/TF); OTM (\$5/TF); 6" Subballast (\$29/TF)	
	Iowa City 1st Street Connection	765		765	TF	\$ 230	\$ 175,950	\$ -	\$ 175,950		
	Iowa City Industrial Complex Siding Extension	5,777		5,777	TF	\$ 230	\$ 1,328,710	\$ -	\$ 1,328,710		
	American Siding	12,280		12,280	TF	\$ 230	\$ 2,824,400	\$ -	\$ 2,824,400		
	Walcott Siding Extension	1,450		1,450	TF	\$ 230	\$ 333,500	\$ -	\$ 333,500		
	Rock Island Yard Runaround		4,220	4,220	TF	\$ 230	\$ -	\$ 970,600	\$ 970,600		
	Rock Island Yard Replacement Track		3,770	3,770	TF	\$ 230	\$ -	\$ 867,100	\$ 867,100		
	Moline 2nd Main (MP 178.36 - 180.44)		10,858	10,858	TF	\$ 230	\$ -	\$ 2,497,340	\$ 2,497,340		
	Moline Main Track Realignment		3,381	3,381	TF	\$ 230	\$ -	\$ 777,630	\$ 777,630		
	Midland Siding		461	461	TF	\$ 230	\$ -	\$ 106,030	\$ 106,030		
	Moline 2nd Main (MP 175.34-177.18)		11,702	11,702	TF	\$ 230	\$ -	\$ 2,691,460	\$ 2,691,460		
	Moline Siding Replacement Track at Sylvis Yard		7,147	7,147	TF	\$ 230	\$ -	\$ 1,643,810	\$ 1,643,810		
	Sylvis Siding Improvements		799	799	TF	\$ 230	\$ -	\$ 183,770	\$ 183,770		
	Eola Yard Improvements		14,510	14,510	TF	\$ 230	\$ -	\$ 3,337,300	\$ 3,337,300		
10.10	Track New Construction: Non-ballasted										
	Not Applicable										
10.11	Track Rehabilitation: Ballast and surfacing					Total:	\$ 2,755,000	\$ 3,577,000	\$ 6,332,000		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Track Surfacing: MP 237.0 to MP 182.4	54.6		54.6	mile	\$ 30,000	\$ 1,638,000	\$ -	\$ 1,638,000	tamping and ballasting costs typical \$5 / TF and up depending on specific site conditions	
	Track Surfacing: MP 182.1 to MP 129.5		52.6	52.6	mile	\$ 30,000	\$ -	\$ 1,578,000	\$ 1,578,000	tamping and ballasting costs typical \$5 / TF and up depending on specific site conditions	
	Track Surfacing: Iowa City 2nd Main	1.9		1.9	mile	\$ 30,000	\$ 57,000	\$ -	\$ 57,000	tamping and ballasting costs typical \$5 / TF and up depending on specific site conditions	
	Track Surfacing: Moline Siding		1.3	1.3	mile	\$ 30,000	\$ -	\$ 39,000	\$ 39,000	tamping and ballasting costs typical \$5 / TF and up depending on specific site conditions	
	Track Undercutting: MP 236.2 to MP 235.2	1		1	mile	\$ 300,000	\$ 300,000	\$ -	\$ 300,000	includes specialized equipment for lifting track, clearing embankment and resurfacing track	typical costs start at \$50/TF

Cat.	Description	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost	Detailed Description	Unit Cost Documentation
	Track Undercutting: MP 180.5 to MP 178.5		2	2	mile	\$ 300,000	\$ -	\$ 600,000	\$ 600,000	includes specialized equipment for lifting track, clearing embankment and resurfacing track	typical costs start at \$50/TF
	Track Undercutting: MP 153.3 to MP 151.3		2	2	mile	\$ 300,000	\$ -	\$ 600,000	\$ 600,000	includes specialized equipment for lifting track, clearing embankment and resurfacing track	typical costs start at \$50/TF
	Track Undercutting: Spot Locations	2	2	4	each	\$ 30,000	\$ 60,000	\$ 60,000	\$ 120,000	allowance for specialized trackwork; site specific design required to refine costs	typical costs start at \$50/TF; assumed approximately 500' each location and \$60/TF due economies of scale for smaller areas
	Track Undercutting: Crossing Spot Locations	20	20	40	each	\$ 20,000	\$ 400,000	\$ 400,000	\$ 800,000	allowance for specialized trackwork; site specific design required to refine costs	typical costs start at \$50/TF; assumed higher cost per TF based economies of scale for smaller areas
	Track Undercutting: Closed Crossings / Crossings to be Closed	15	15	30	each	\$ 20,000	\$ 300,000	\$ 300,000	\$ 600,000	allowance for specialized trackwork; site specific design required to refine costs	typical costs start at \$50/TF; assumed higher cost per TF based economies of scale for smaller areas
10.12	Track Rehabilitation: Ditching and Drainage					Total:	\$ 100,000	\$ 10,000	\$ 110,000		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Ditching: MP 172.1 to MP 171.9		0.2	0.2	mile	\$ 50,000	\$ -	\$ 10,000	\$ 10,000	Typical 3' x 10' Ditch	\$5/CY Plus Misc. expenses for Haul,Waste,Seeding, Etc.
	Ditching: MP 185.8 to MP 183.8	2.0		2.0	mile	\$ 50,000	\$ 100,000	\$ -	\$ 100,000	Typical 3' x 10' Ditch	\$5/CY Plus Misc. expenses for Haul,Waste,Seeding, Etc.
10.13	Track Rehabilitation: Component Replacement (rail, ties, etc)					Total:	\$ 6,157,000	\$ 6,010,000	\$ 12,167,000		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Replace Jointed Rail with Continuously Welded Rail: MP 237.0 to MP 234.0	3.0		3.0	mile	\$ 450,000	\$ 1,350,000	\$ -	\$ 1,350,000	Rail removal, replacement and on-site installation & welding	IAIS historical typical cost; rail \$1300 / net ton plus tie plates \$13 ea.
	Replace Jointed Rail with Continuously Welded Rail: MP 183.0 to MP 182.3	0.7		0.7	mile	\$ 450,000	\$ 315,000	\$ -	\$ 315,000	Rail removal, replacement and on-site installation & welding	IAIS historical typical cost; rail \$1300 / net ton plus tie plates \$13 ea.
	Replace Jointed Rail with Continuously Welded Rail: MP 175.40 to MP 170.3		5.1	5.1	mile	\$ 450,000	\$ -	\$ 2,295,000	\$ 2,295,000	Rail removal, replacement and on-site installation & welding	IAIS historical typical cost; rail \$1300 / net ton plus tie plates \$13 ea.
	Replace Continuously Welded Rail on Curve: MP 185.2 to MP 185.7	0.5		0.5	mile	\$ 450,000	\$ 225,000	\$ -	\$ 225,000	Rail removal, replacement and on-site installation & welding	IAIS historical typical cost; rail \$1300 / net ton plus tie plates \$13 ea.
	Replace Continuously Welded Rail on Curve: MP 184.9 to MP 184.04	0.86		0.86	mile	\$ 450,000	\$ 387,000	\$ -	\$ 387,000	Rail removal, replacement and on-site installation & welding	IAIS historical typical cost; rail \$1300 / net ton plus tie plates \$13 ea.
	Continuously Welded Rail Joint Elimination		50	50	each	\$ 1,500	\$ -	\$ 75,000	\$ 75,000		IAIS historical typical cost
	Replace Crossties: MP 237.0 to MP 182.4	45,000		45,000	each	\$ 80	\$ 3,600,000	\$ -	\$ 3,600,000	Removal & disposal of existing tie; replace with wood ties and OTM	IAIS historical typical cost
	Replace Crossties: MP 175.4 to MP 180.5		4,000	4,000	each	\$ 80	\$ -	\$ 320,000	\$ 320,000	Removal & disposal of existing tie; replace with wood ties and OTM	IAIS historical typical cost
	Replace Crossties: MP 175.4 to MP 129.5		40,000	40,000	each	\$ 80	\$ -	\$ 3,200,000	\$ 3,200,000	Removal & disposal of existing tie; replace with wood ties and OTM	IAIS historical typical cost
	Replace Crossties: Iowa City 2nd Main	3,500		3,500	each	\$ 80	\$ 280,000	\$ -	\$ 280,000	Removal & disposal of existing tie; replace with wood ties and OTM	IAIS historical typical cost
	Replace Crossties: Moline Siding		1,500	1,500	each	\$ 80	\$ -	\$ 120,000	\$ 120,000	Removal & disposal of existing tie; replace with wood ties and OTM	IAIS historical typical cost
10.14	Track: Special Track Work (switches, turnouts, insulated joints)					Total:	\$ 3,120,000	\$ 9,525,000	\$ 12,645,000		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Iowa City Station Bypass: No. 15 Powered Turnout	1		1	each	\$ 200,000	\$ 200,000	\$ -	\$ 200,000		
	Iowa City Station Bypass: No. 11 Hand-Throw Turnout	2		2	each	\$ 140,000	\$ 280,000	\$ -	\$ 280,000		
	Iowa City Industrial Complex Siding Extension: No. 15 Powered Turnout	1		1	each	\$ 200,000	\$ 200,000	\$ -	\$ 200,000		
	Iowa City Industrial Complex Siding Extension: No. 11 Hand-Throw Turnout	6		6	each	\$ 140,000	\$ 840,000	\$ -	\$ 840,000		
	American Siding: No. 15 Powered Turnout	2		2	each	\$ 200,000	\$ 400,000	\$ -	\$ 400,000		

Cat.	Description	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost	Detailed Description	Unit Cost Documentation	
	Wilton Siding Upgrade: No. 15 Powered Turnout	3		3	each	\$ 200,000	\$ 600,000	\$ -	\$ 600,000		IAIS historical typical cost. Material Cost: no. 11 - \$40,000, no. 15 - \$54,000, no. 20 - \$65,000. Plus railroad freight, site preparation, installation, power operation equipment, contractors expenses and railroad signaling and commissioning costs.	
	Walcott Siding Extension: No. 15 Powered Turnout	2		2	each	\$ 200,000	\$ 400,000	\$ -	\$ 400,000			
	Missouri Division Junction: No. 15 Powered Turnout	1		1	each	\$ 200,000	\$ 200,000	\$ -	\$ 200,000			
	Rock Island Yard Runaround: No. 15 Powered Turnout		1	1	each	\$ 200,000	\$ -	\$ 200,000	\$ 200,000			
	Rock Island Yard Replacement Track: No. 9 Hand-Throw Turnout		6	6	each	\$ 130,000	\$ -	\$ 780,000	\$ 780,000			
	Moline West UXO: No. 15 Powered		1	1	L Sum	\$ 820,000	\$ -	\$ 820,000	\$ 820,000			
	Moline East UXO: No. 15 Powered		1	1	L Sum	\$ 1,025,000	\$ -	\$ 1,025,000	\$ 1,025,000			
	Midland Siding: No. 11 Powered Turnout		2	2	each	\$ 160,000	\$ -	\$ 320,000	\$ 320,000			
	Silvis Siding Upgrade: No. 15 Powered Turnout		2	2	each	\$ 200,000	\$ -	\$ 400,000	\$ 400,000			
	Silvis Siding Upgrade: No. 11 Hand-Throw Turnout		1	1	each	\$ 140,000	\$ -	\$ 140,000	\$ 140,000			
	Moline Siding Replacement Track at Sylvis Yard: No. 10 Hand-Throw Turnouts		4	4	each	\$ 140,000	\$ -	\$ 560,000	\$ 560,000			
	Atkinson Siding Upgrade: No. 15 Powered Turnout		2	2	each	\$ 200,000	\$ -	\$ 400,000	\$ 400,000			
	Annawan Siding Upgrade: Power Existing No. 11 Turnout		2	2	each	\$ 20,000	\$ -	\$ 40,000	\$ 40,000			
	Eola Yard: No. 24 Powered Turnout		14	14	each	\$ 300,000	\$ -	\$ 4,200,000	\$ 4,200,000	Eola Yard Cost Estimate		Eola Yard Cost Estimate
	Eola Yard: No. 11 Powered Turnout		4	4	each	\$ 160,000	\$ -	\$ 640,000	\$ 640,000	Eola Yard Cost Estimate		Eola Yard Cost Estimate
10.15	Track: Major Interlockings					Total:	\$ -	\$ 8,800,000	\$ 8,800,000			
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost			
	Wyanet Connection (BNSF / IAIS)		1	1	L Sum	\$ 7,200,000	\$ -	\$ 7,200,000	\$ 7,200,000	Wyanet Connection Cost Estimate	Wyanet Connection Cost Estimate	
	Colona Junction (BNSF / IAIS)		1	1	L Sum	\$ 1,600,000	\$ -	\$ 1,600,000	\$ 1,600,000	Colona Junction Cost Estimate	Colona Junction Cost Estimate	
10.16	Track: Switch Heaters (with power and control)											
	Included in Wayside Signaling Cost											
10.17	Track: Vibration and Noise Dampening											
	Not Applicable											

Cat.	Description	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost	Detailed Description	Unit Cost Documentation
20	STATIONS, TERMINALS, INTERMODAL										
20.01	Station Buildings: Intercity passenger rail only						\$ -	\$ 150,000	\$ 150,000	See detailed description below	
20.02	Station Buildings: Joint use (commuter rail, intercity bus)						\$ -	\$ 185,000	\$ 185,000		
20.03	Platforms						\$ 872,000	\$ 1,384,000	\$ 2,256,000		
20.04	Elevators, escalators						\$ -	\$ -	\$ -		
20.05	Joint commercial development						\$ -	\$ -	\$ -		
20.06	Pedestrian / bike access and accomodation, landscaping, parking						\$ 751,600	\$ 461,000	\$ 1,212,600		
20.07	Automobile, bus, van accessways including roads						\$ 245,000	\$ 350,000	\$ 595,000		
20.08	Fare collection systems and equipment						\$ 78,000	\$ 104,000	\$ 182,000		
20.09	Station security						\$ -	\$ -	\$ -		
	Category 20 Contingency					30%	\$ 584,000	\$ 790,200	\$ 1,374,200		
	Total for Category 20 STATIONS, TERMINALS, INTERMODAL						\$ 2,530,600	\$ 3,424,200	\$ 5,954,800		
20.01	Station Buildings: Intercity passenger rail only						Total: \$ -	\$ 150,000	\$ 150,000		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Geneseo		1	1	L Sum	\$ 150,000	\$ -	\$ 150,000	\$ 150,000	Geneseo Station Cost Estimate	Geneseo Station Cost Estimate
20.02	Station Buildings: Joint use (commuter rail, intercity bus)						Total: \$ -	\$ 185,000	\$ 185,000		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Moline		1	1	L Sum	\$ 185,000	\$ -	\$ 185,000	\$ 185,000	Moline Station Cost Estimate	Moline Station Cost Estimate
20.03	Platforms						Total: \$ 872,000	\$ 1,384,000	\$ 2,256,000		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Geneseo		1	1	L Sum	\$ 677,000	\$ -	\$ 677,000	\$ 677,000	Geneseo Station Cost Estimate	Geneseo Station Cost Estimate
	Moline		1	1	L Sum	\$ 707,000	\$ -	\$ 707,000	\$ 707,000	Moline Station Cost Estimate	Moline Station Cost Estimate
	Iowa City	1		1	L Sum	\$ 872,000	\$ 872,000	\$ -	\$ 872,000	Iowa City Station Cost Estimate	Iowa City Station Cost Estimate
20.04	Elevators, escalators										
	Not Applicable										
20.05	Joint commercial development										
	Not Applicable										
20.06	Pedestrian / bike access and accomodation, landscaping, parking						Total: \$ 751,600	\$ 461,000	\$ 1,212,600		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Geneseo		1	1	L Sum	\$ 196,000	\$ -	\$ 196,000	\$ 196,000	Geneseo Station Cost Estimate	Geneseo Station Cost Estimate
	Moline		1	1	L Sum	\$ 265,000	\$ -	\$ 265,000	\$ 265,000	Moline Station Cost Estimate	Moline Station Cost Estimate
	Iowa City	1		1	L Sum	\$ 751,600	\$ 751,600	\$ -	\$ 751,600	Iowa City Station Cost Estimate	Iowa City Station Cost Estimate
20.07	Automobile, bus, van accessways including roads						Total: \$ 245,000	\$ 350,000	\$ 595,000		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Geneseo		1	1	L Sum	\$ 20,000	\$ -	\$ 20,000	\$ 20,000	Geneseo Station Cost Estimate	Geneseo Station Cost Estimate
	Moline		1	1	L Sum	\$ 330,000	\$ -	\$ 330,000	\$ 330,000	Moline Station Cost Estimate	Moline Station Cost Estimate
	Iowa City	1		1	L Sum	\$ 245,000	\$ 245,000	\$ -	\$ 245,000	Iowa City Station Cost Estimate	Iowa City Station Cost Estimate
20.08	Fare collection systems and equipment						Total: \$ 78,000	\$ 104,000	\$ 182,000		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Geneseo		1	1	L Sum	\$ 26,000	\$ -	\$ 26,000	\$ 26,000	Geneseo Station Cost Estimate	Geneseo Station Cost Estimate
	Moline		1	1	L Sum	\$ 78,000	\$ -	\$ 78,000	\$ 78,000	Moline Station Cost Estimate	Moline Station Cost Estimate
	Iowa City	1		1	L Sum	\$ 78,000	\$ 78,000	\$ -	\$ 78,000	Iowa City Station Cost Estimate	Iowa City Station Cost Estimate
20.09	Station security										
	Not Applicable										

Cat.	Description	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost	Detailed Description	Unit Cost Documentation
30	SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS										
30.01	Administration building: Office, sales, storage, revenue counting						\$ -	\$ -	\$ -		
30.02	Light Maintenance Facility						\$ 2,550,000	\$ -	\$ 2,550,000		
30.03	Heavy Maintenance Facility						\$ -	\$ -	\$ -		
30.04	Storage or Maintenance-of-Way building/bases						\$ -	\$ -	\$ -		
30.05	Yard and yard track						\$ -	\$ -	\$ -		
	Category 30 Contingency					30%	\$ 765,000	\$ -	\$ 765,000		
	Total for Category 30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS						\$ 3,315,000	\$ -	\$ 3,315,000		
30.01	Administration building: Office, sales, storage, revenue counting										
	Not Applicable										
30.02	Light Maintenance Facility					Total:	\$ 2,550,000	\$ -	\$ 2,550,000		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Iowa City Layover Facilities	1		1	L Sum	\$ 750,000	\$ 750,000	\$ -	\$ 750,000	Iowa City Layover Facility Estimate	Iowa City Layover Facility Estimate
	Iowa City Layover Trackage	1		1	L Sum	\$ 900,000	\$ 900,000	\$ -	\$ 900,000	Iowa City Layover Facility Estimate	Iowa City Layover Facility Estimate
	Iowa City Layover Civil Site	1		1	L Sum	\$ 900,000	\$ 900,000	\$ -	\$ 900,000	Iowa City Layover Facility Estimate	Iowa City Layover Facility Estimate
30.03	Heavy Maintenance Facility										
	Not Applicable										
30.04	Storage or Maintenance-of-Way building/bases										
	Not Applicable										
30.05	Yard and yard track										
	Not Applicable										

Cat.	Description	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost	Detailed Description	Unit Cost Documentation
40	SITEWORK, RIGHT OF WAY, LAND, EXISTING IMPROVEMENTS										
40.07	Purchase or lease of real estate						\$ 700,000	\$ 1,470,000	\$ 2,170,000		
	Purchase or lease of real estate Subcategory Total						\$ 700,000	\$ 1,470,000	\$ 2,170,000		
40.01	Demolition, clearing, site preparation						\$ 425,550	\$ 625,425	\$ 1,050,975		
40.02	Site utilities, utility relocation						\$ 225,000	\$ 865,000	\$ 1,090,000		
40.03	Hazardous material, contaminated soil removal/mitigation, ground water treatments						\$ 125,000	\$ 125,000	\$ 250,000		
40.04	Environmental mitigation: wetlands, historic/archeology, parks						\$ 250,000	\$ 2,950,000	\$ 3,200,000		
40.05	Site structures including retaining walls, sound walls						\$ 400,000	\$ -	\$ 400,000		
40.06	Temporary facilities and other indirect costs during construction						\$ -	\$ -	\$ -		
40.08	Highway/pedestrian overpass/grade separations						\$ -	\$ -	\$ -		
40.09	Relocation of existing households and businesses						\$ -	\$ -	\$ -		
	All other Sitework, ROW, Existing Improvements Subcategory Total						\$ 1,425,550	\$ 4,565,425	\$ 5,990,975		
	Category 40 Contingency						30% \$ 637,700	\$ 1,810,700	\$ 2,448,300		
	Total for Category 40 SITEWORK, RIGHT OF WAY, LAND, EXISTING IMPROVEMENTS						\$ 2,763,250	\$ 7,846,125	\$ 10,609,275		
40.07	Purchase or lease of real estate						Total: \$ 700,000	\$ 1,470,000	\$ 2,170,000		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Wyanette Connection		7	7	Acre	\$ 10,000	\$ -	\$ 70,000	\$ 70,000	Wyanette Connection Cost Estimate	Wyanette Connection Cost Estimate
	Geneseo Station		1	1	L Sum	\$ 500,000	\$ -	\$ 500,000	\$ 500,000	Geneseo Station Cost Estimate	Geneseo Station Cost Estimate
	Moline Station		1	1	L Sum	\$ 900,000	\$ -	\$ 900,000	\$ 900,000	Moline Station Cost Estimate	Moline Station Cost Estimate
	Iowa City Station	1		1	L Sum	\$ 700,000	\$ 700,000	\$ -	\$ 700,000	Iowa City Station Cost Estimate	Iowa City Station Cost Estimate
40.01	Demolition, clearing, site preparation						Total: \$ 425,550	\$ 625,425	\$ 1,050,975		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Heavy Clearing	5	5	10	Acre	\$ 25,000	\$ 125,000	\$ 125,000	\$ 250,000		prior experience
	Light Clearing	25	25	50	Acre	\$ 5,000	\$ 125,000	\$ 125,000	\$ 250,000		prior experience
	Iowa City Station Bypass: Turnout Removal	2		2	EA	\$ 10,000	\$ 20,000	\$ -	\$ 20,000		prior experience
	Iowa City 1st Street Connection: Track Removal	190		190	TF	\$ 25	\$ 4,750	\$ -	\$ 4,750		prior experience
	Iowa City 1st Street Connection: Turnout Removal	2		2	EA	\$ 10,000	\$ 20,000	\$ -	\$ 20,000		prior experience
	Iowa City Industrial Complex Siding Extension: Track Removal	2,032		2,032	TF	\$ 25	\$ 50,800	\$ -	\$ 50,800		prior experience
	Iowa City Industrial Complex Siding Extension: Turnout Removal	6		6	EA	\$ 10,000	\$ 60,000	\$ -	\$ 60,000		prior experience
	Wilton Siding: Turnout Removal	3		3							prior experience
	Walcott Siding Extension: Turnout Removal	2		2	EA	\$ 10,000	\$ 20,000	\$ -	\$ 20,000		prior experience
	Missouri Division: Turnout Removal		1	1	EA	\$ 10,000	\$ -	\$ 10,000	\$ 10,000		prior experience
	Rock Island Yard: Track Removal		1,918	1,918	TF	\$ 25	\$ -	\$ 47,950	\$ 47,950		prior experience
	Rock Island Yard: Turnout Removal		5	5	EA	\$ 10,000	\$ -	\$ 50,000	\$ 50,000		prior experience
	Moline Main Track Realignment/2nd Main (MP 178.36-180.44): Track Removal		2,957	2,957	TF	\$ 25	\$ -	\$ 73,925	\$ 73,925		prior experience
	Moline Main Track Realignment/2nd Main (MP 178.36-180.44): Turnout Removal		2	2	EA	\$ 10,000	\$ -	\$ 20,000	\$ 20,000		prior experience
	Midland Siding: Track Removal		552	552	TF	\$ 25	\$ -	\$ 13,800	\$ 13,800		prior experience
	Midland Siding: Turnout Removal		2	2	EA	\$ 10,000	\$ -	\$ 20,000	\$ 20,000		prior experience
	Moline 2nd Main (MP 175.34-177.18): Track Removal		1,810	1,810	TF	\$ 25	\$ -	\$ 45,250	\$ 45,250		prior experience
	Moline 2nd Main (MP 175.34-177.18): Turnout Removal		2	2	EA	\$ 10,000	\$ -	\$ 20,000	\$ 20,000		prior experience
	Sylvis Siding Improvements: Track Removal		980	980	TF	\$ 25	\$ -	\$ 24,500	\$ 24,500		prior experience
	Sylvis Siding Improvements: Turnout Removal		3	3	EA	\$ 10,000	\$ -	\$ 30,000	\$ 30,000		prior experience
	Atkinson Siding Upgrade: Turnout Removal		2	2	EA	\$ 10,000	\$ -	\$ 20,000	\$ 20,000		prior experience
40.02	Site utilities, utility relocation						Total: \$ 225,000	\$ 865,000	\$ 1,090,000		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Project Utility Allowance	0.5	0.5	1.0	L Sum	\$ 250,000	\$ 125,000	\$ 125,000	\$ 250,000	miscellaneous utility relocations not responsibility of owner.	prior experience
	Geneseo Station Utility Allowance		1.0	1.0	L Sum	\$ 125,000	\$ -	\$ 125,000	\$ 125,000	Geneseo Station Cost Estimate	Geneseo Station Cost Estimate
	Moline Station Utility Allowance		1.0	1.0	L Sum	\$ 115,000	\$ -	\$ 115,000	\$ 115,000	Moline Station Cost Estimate	Moline Station Cost Estimate
	Iowa City Station Utility Allowance	1.0		1.0	L Sum	\$ 100,000	\$ 100,000	\$ -	\$ 100,000	Iowa City Station Cost Estimate	Iowa City Station Cost Estimate
	Eola Yard Utility Allowance		1.0	1.0	L Sum	\$ 500,000	\$ -	\$ 500,000	\$ 500,000	Eola Yard Cost Estimate	Eola Yard Cost Estimate
40.03	Hazardous material, contaminated soil removal/mitigation, ground water treatments						Total: \$ 125,000	\$ 125,000	\$ 250,000		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Project Hazardous Material Allowance	0.5	0.5	1.0	L Sum	\$ 250,000	\$ 125,000	\$ 125,000	\$ 250,000	allowance for work to be determined	prior experience
40.04	Environmental mitigation: wetlands, historic/archeology, parks						Total: \$ 250,000	\$ 2,950,000	\$ 3,200,000		

See detailed description below

Cat.	Description	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost	Detailed Description	Unit Cost Documentation
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Project Environmental Mitigation Allowance	0.5	0.5	1.0	L Sum	\$ 500,000	\$ 250,000	\$ 250,000	\$ 500,000	allowance for work to be determined	prior experience
	Wyandot Connection Permitting / Mitigation Allowance		1.0	1.0	L Sum	\$ 900,000	\$ -	\$ 900,000	\$ 900,000	NEPA-Environmental	NEPA-Environmental
	Eola Yard Permitting / Mitigation Allowance		1.0	1.0	L Sum	\$ 1,800,000	\$ -	\$ 1,800,000	\$ 1,800,000	NEPA-Environmental	NEPA-Environmental
40.05	Site structures including retaining walls, sound walls					Total:	\$ 400,000	\$ -	\$ 400,000		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Iowa City Station Retaining Wall	1.0		1.0	L Sum	\$ 400,000	\$ 400,000	\$ -	\$ 400,000	Iowa City Station Cost Estimate	Iowa City Station Cost Estimate
40.06	Temporary facilities and other indirect costs during construction										
	Not Applicable										
40.08	Highway/pedestrian overpass/grade separations										
	Not Applicable										
40.09	Relocation of existing households and businesses										
	Not Applicable										

Cat.	Description	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost	Detailed Description	Unit Cost Documentation
50	COMMUNICATIONS & SIGNALING										
50.01	Wayside signaling equipment						\$ 13,583,000	\$ 28,519,000	\$ 42,102,000	See detailed description below	
50.02	Signal power access and distribution						\$ -	\$ -	\$ -		
50.03	On-board signaling equipment						\$ -	\$ -	\$ -		
50.04	Traffic control and dispatching systems						\$ 3,150,000	\$ 1,550,000	\$ 4,700,000		
50.05	Communications						\$ 1,000,000	\$ 1,000,000	\$ 2,000,000		
50.06	Grade crossing protection						\$ 11,857,000	\$ 11,028,000	\$ 22,885,000		
50.07	Hazard detectors (dragging equipment, slide, etc.)						\$ -	\$ -	\$ -		
50.08	Station train approach warning system						\$ -	\$ -	\$ -		
	Category 50 Contingency						20%	\$ 5,918,000	\$ 8,419,400		\$ 14,337,400
	Total for Category 50 COMMUNICATIONS & SIGNALING						\$ 35,508,000	\$ 50,516,400	\$ 86,024,400		
50.01	Wayside signaling equipment						Total: \$ 13,583,000	\$ 28,519,000	\$ 42,102,000		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Illinois Wayside Signalling		1	1	L Sum	\$ 15,359,000	\$ -	\$ 15,359,000	\$ 15,359,000	Signal Cost Estimate	Signal Cost Estimate
	Eola Yard Signalling Improvements		1	1	L Sum	\$ 13,160,000	\$ -	\$ 13,160,000	\$ 13,160,000	Eola Yard Cost Estimate	Eola Yard Cost Estimate
	Iowa Wayside Signalling	1		1	L Sum	\$ 13,583,000	\$ 13,583,000	\$ -	\$ 13,583,000	Signal Cost Estimate	Signal Cost Estimate
50.02	Signal power access and distribution										
	Included in Wayside Signaling Cost										
50.03	On-board signaling equipment										
	Not Applicable										
50.04	Traffic control and dispatching systems						Total: \$ 3,150,000	\$ 1,550,000	\$ 4,700,000		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Traffic control and dispatching with PTC: Iowa Portion	1		1	L Sum	\$ 3,150,000	\$ 3,150,000	\$ -	\$ 3,150,000	Signal Cost Estimate	Signal Cost Estimate
	Traffic control and dispatching with PTC: Illinois Portion		1	1	L Sum	\$ 1,550,000	\$ -	\$ 1,550,000	\$ 1,550,000	Signal Cost Estimate	Signal Cost Estimate
50.05	Communications						Total: \$ 1,000,000	\$ 1,000,000	\$ 2,000,000		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Communications: Iowa Portion	1		1	L Sum	\$ 1,000,000	\$ 1,000,000	\$ -	\$ 1,000,000	Signal Cost Estimate	Signal Cost Estimate
	Communications: Illinois Portion		1	1	L Sum	\$ 1,000,000	\$ -	\$ 1,000,000	\$ 1,000,000	Signal Cost Estimate	Signal Cost Estimate
50.06	Grade crossing protection						Total: \$ 11,857,000	\$ 11,028,000	\$ 22,885,000		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Iowa: Private Residential Crossing Improvement	1		1	each	\$ 15,000	\$ 15,000	\$ -	\$ 15,000	Crossing Improvements	prior experience
	Iowa: Private Farm / Industrial Crossing Improvement	22		22	each	\$ 20,000	\$ 440,000	\$ -	\$ 440,000	Crossing Improvements	prior experience
	Iowa: Private Farm / Industrial Crossing Improvement - Major Profile Change	1		1	each	\$ 30,000	\$ 30,000	\$ -	\$ 30,000	Crossing Improvements	prior experience
	Iowa: Private Farm / Industrial Crossing Improvement - Additional Track	3		3	each	\$ 10,000	\$ 30,000	\$ -	\$ 30,000	Crossing Improvements	prior experience
	Iowa: Private Farm / Industrial Crossing Improvement - Add New Track	4		4	each	\$ 5,000	\$ 20,000	\$ -	\$ 20,000	Crossing Improvements	prior experience
	Iowa: Local Public Road Improvement	26		26	each	\$ 25,000	\$ 650,000	\$ -	\$ 650,000	Crossing Improvements	prior experience
	Iowa: Local Public Road Improvement - Major Profile Change	2		2	each	\$ 40,000	\$ 80,000	\$ -	\$ 80,000	Crossing Improvements	prior experience
	Iowa: Local Public Road Improvement - Additional Track	4		4	each	\$ 20,000	\$ 80,000	\$ -	\$ 80,000	Crossing Improvements	prior experience
	Iowa: Urban Public Road Improvement	1		1	each	\$ 50,000	\$ 50,000	\$ -	\$ 50,000	Crossing Improvements	prior experience
	Iowa: Urban Public Road Improvement - Add New Track	4		4	each	\$ 25,000	\$ 100,000	\$ -	\$ 100,000	Crossing Improvements	prior experience
	Iowa: Urban Public Road Improvement - Crossing Surface Replacement Only	3		3	each	\$ 25,000	\$ 75,000	\$ -	\$ 75,000	Crossing Improvements	prior experience
	Illinois: Private Residential Crossing Improvement		1	1	each	\$ 15,000	\$ -	\$ 15,000	\$ 15,000	Crossing Improvements	prior experience
	Illinois: Private Residential Crossing Improvement - Additional Track		1	1	each	\$ 10,000	\$ -	\$ 10,000	\$ 10,000	Crossing Improvements	prior experience
	Illinois: Private Farm / Industrial Crossing Improvement		3	3	each	\$ 20,000	\$ -	\$ 60,000	\$ 60,000	Crossing Improvements	prior experience
	Illinois: Private Farm / Industrial Crossing Improvement - Major Profile Change		6	6	each	\$ 30,000	\$ -	\$ 180,000	\$ 180,000	Crossing Improvements	prior experience
	Illinois: Local Public Road Improvement		11	11	each	\$ 25,000	\$ -	\$ 275,000	\$ 275,000	Crossing Improvements	prior experience
	Illinois: Local Public Road Improvement - Major Profile Change		4	4	each	\$ 40,000	\$ -	\$ 160,000	\$ 160,000	Crossing Improvements	prior experience
	Illinois: Local Public Road Improvement - Additional Track		3	3	each	\$ 20,000	\$ -	\$ 60,000	\$ 60,000	Crossing Improvements	prior experience
	Illinois: Local Public Road Improvement - Crossing Surface Replacement Only		3	3	each	\$ 20,000	\$ -	\$ 60,000	\$ 60,000	Crossing Improvements	prior experience
	Illinois: Local Public Road Improvement - Remove Track from Crossing		1	1	each	\$ 5,000	\$ -	\$ 5,000	\$ 5,000	Crossing Improvements	prior experience
	Illinois: Urban Public Road Improvement - Crossing Surface Replacement Only		15	15	each	\$ 25,000	\$ -	\$ 375,000	\$ 375,000	Crossing Improvements	prior experience
	Illinois: Urban Public Road Improvement - Remove Track from Crossing		1	1	each	\$ 10,000	\$ -	\$ 10,000	\$ 10,000	Crossing Improvements	prior experience
	Illinois: Colona Roadway Improvements		1	1	L Sum	\$ 200,000	\$ -	\$ 200,000	\$ 200,000	Crossing Improvements	prior experience
	Illinois: East Moline 7th Street Improvements		1	1	L Sum	\$ 100,000	\$ -	\$ 100,000	\$ 100,000	Crossing Improvements	prior experience
	Illinois Grade Crossing Signalization		1	1	L Sum	\$ 9,518,000	\$ -	\$ 9,518,000	\$ 9,518,000	Signal Cost Estimate	Signal Cost Estimate

Cat.	Description	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost	Detailed Description	Unit Cost Documentation
	Iowa Grade Crossing Signalization	1		1	L Sum	\$ 10,287,000	\$ 10,287,000	\$ -	\$ 10,287,000	Signal Cost Estimate	Signal Cost Estimate
50.07	Hazard detectors (dragging equipment, slide, etc.)										
	Included in Wayside Signaling Cost										
50.08	Station train approach warning system										
	Included in Wayside Signaling Cost										

Cat.	Description	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost	Detailed Description	Unit Cost Documentation
60	ELECTRIC TRACTION										
60.01	Traction power transmission: High voltage						\$ -	\$ -	\$ -	See detailed description below	
60.02	Traction power supply: Substations						\$ -	\$ -	\$ -		
60.03	Traction power distribution: Catenary and third rail						\$ -	\$ -	\$ -		
60.04	Traction power control						\$ -	\$ -	\$ -		
	Category 60 Contingency					0%	\$ -	\$ -	\$ -		
Total for Category 60 ELECTRIC TRACTION							\$ -	\$ -	\$ -		
60.01	Traction power transmission: High voltage										
	Not Applicable										
60.02	Traction power supply: Substations										
	Not Applicable										
60.03	Traction power distribution: Catenary and third rail										
	Not Applicable										
60.04	Traction power control										
	Not Applicable										

Cat.	Description	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost	Detailed Description	Unit Cost Documentation	
70	VEHICLES											
70.00	Vehicle acquisition: Electric locomotive						\$ -	\$ -	\$ -			
70.01	Vehicle acquisition: Non-electric locomotive						\$ 4,050,000	\$ 10,950,000	\$ 15,000,000			
70.02	Vehicle acquisition: Electric multiple unit						\$ -	\$ -	\$ -			
70.03	Vehicle acquisition: Diesel multiple unit						\$ -	\$ -	\$ -			
70.04	Veh acq: Loco-hauled passenger cars w/ ticketed space						\$ 5,265,000	\$ 14,235,000	\$ 19,500,000			
70.05	Veh acq: Loco-hauled passenger cars w/o ticketed space						\$ 2,430,000	\$ 6,570,000	\$ 9,000,000			
70.06	Vehicle acquisition: Maintenance of way vehicles						\$ -	\$ -	\$ -			
70.07	Vehicle acquisition: Non-railroad support vehicles						\$ -	\$ -	\$ -			
	Vehicle Acquisition Subcategory Total						\$ 11,745,000	\$ 31,755,000	\$ 43,500,000			
70.08	Vehicle refurbishment: Electric locomotive						\$ -	\$ -	\$ -	See detailed description below		
70.09	Vehicle refurbishment: Non-electric locomotive						\$ -	\$ -	\$ -			
70.10	Vehicle refurbishment: Electric multiple unit						\$ -	\$ -	\$ -			
70.11	Vehicle refurbishment: Diesel multiple unit						\$ -	\$ -	\$ -			
70.12	Veh refurb: Loco-hauled passenger cars w/ ticketed space						\$ -	\$ -	\$ -			
70.13	Veh refurb: Loco-hauled passenger cars w/o ticketed space						\$ -	\$ -	\$ -			
70.14	Vehicle refurbishment: Maintenance of way vehicles						\$ -	\$ -	\$ -			
70.15	Spare parts						\$ 1,174,500	\$ 3,175,500	\$ 4,350,000			
	Vehicle Refurbishment Subcategory Total						\$ 1,174,500	\$ 3,175,500	\$ 4,350,000			
	Category 70 Contingency						30% \$ 3,875,900	\$ 10,479,200	\$ 14,355,000			
	Total for Category 70 VEHICLES						\$ 16,795,400	\$ 45,409,700	\$ 62,205,000			
70	Vehicle acquisition: Electric locomotive										Per MOU - IL 73%, IA 27% split of costs for Rolling Stock	
	Not Applicable											
70.01	Vehicle acquisition: Non-electric locomotive						Total: \$ 4,050,000	\$ 10,950,000	\$ 15,000,000			
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost			
	Passenger Locomotive	27%	73%	3	each	\$ 5,000,000	\$ 4,050,000	\$ 10,950,000	\$ 15,000,000		experience with Metra North Railroad, Amtrak, and CSX	
70.02	Vehicle acquisition: Electric multiple unit											
	Not Applicable											
70.03	Vehicle acquisition: Diesel multiple unit											
	Not Applicable											
70.04	Veh acq: Loco-hauled passenger cars w/ ticketed space						Total: \$ 5,265,000	\$ 14,235,000	\$ 19,500,000			
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost			
	Coach Car	27%	73%	6	each	\$ 2,000,000	\$ 3,240,000	\$ 8,760,000	\$ 12,000,000		experience with Metra North Railroad, Amtrak, and CSX	
	Coach/Cab Car	27%	73%	3	each	\$ 2,500,000	\$ 2,025,000	\$ 5,475,000	\$ 7,500,000		experience with Metra North Railroad, Amtrak, and CSX	
70.05	Veh acq: Loco-hauled passenger cars w/o ticketed space						Total: \$ 2,430,000	\$ 6,570,000	\$ 9,000,000			
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost			
	Snack Car	27%	73%	3	each	\$ 3,000,000	\$ 2,430,000	\$ 6,570,000	\$ 9,000,000		experience with Metra North Railroad, Amtrak, and CSX	
70.06	Vehicle acquisition: Maintenance of way vehicles											
	Not Applicable											
70.07	Vehicle acquisition: Non-railroad support vehicles											
	Not Applicable											
70.08	Vehicle refurbishment: Electric locomotive											
	Not Applicable											
70.09	Vehicle refurbishment: Non-electric locomotive											
	Not Applicable											
70.1	Vehicle refurbishment: Electric multiple unit											

Cat.	Description	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost	Detailed Description	Unit Cost Documentation
	Not Applicable										
70.11	Vehicle refurbishment: Diesel multiple unit										
	Not Applicable										
70.12	Veh refurb: Loco-hauled passenger cars w/ ticketed space										
	Not Applicable										
70.13	Veh refurb: Loco-hauled passenger cars w/o ticketed space										
	Not Applicable										
70.14	Vehicle refurbishment: Maintenance of way vehicles										
	Not Applicable										
70.15	Spare parts						Total: \$ 1,174,500	\$ 3,175,500	\$ 4,350,000		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Spare Parts Allowance	27%	73%	1	LS	\$ 4,350,000	\$ 1,174,500	\$ 3,175,500	\$ 4,350,000		experience with Metra North Railroad, Amtrak, and CSX

Cat.	Description	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost	Detailed Description	Unit Cost Documentation
80	PROFESSIONAL SERVICES										
80.01	Service Development Plan/Service Environmental						\$ -	\$ -	\$ -		
	Service Development Plan/Service Environmental Subcategory Total						\$ -	\$ -	\$ -		
80.02	Preliminary Engineering/Project Environmental						\$ 1,776,700	\$ 3,186,100	\$ 4,962,800		
	Preliminary Engineering/Project Environmental Subcategory Total						\$ 1,776,700	\$ 3,186,100	\$ 4,962,800		
80.03	Final Design						\$ 4,951,800	\$ 7,245,100	\$ 12,196,900		
	Final Design Subcategory Total						\$ 4,951,800	\$ 7,245,100	\$ 12,196,900		
80.04	Project management for design and construction						\$ 1,872,100	\$ 3,897,500	\$ 5,769,600		
80.05	Construction administration & management						\$ 1,309,800	\$ 2,609,900	\$ 3,919,700		
80.06	Professional liability and other non-construction insurance						\$ -	\$ -	\$ -		
80.07	Legal; Permits; Review Fees by other agencies, cities, etc.						\$ -	\$ -	\$ -		
80.08	Surveys, testing, investigation						\$ -	\$ -	\$ -		
80.09	Engineering inspection						\$ -	\$ -	\$ -		
80.10	Start up						\$ -	\$ -	\$ -		
	All Other Professional Services Subcategory Total						\$ 3,181,900	\$ 6,507,400	\$ 9,689,300		
	Category 80 Contingency						5% \$ 495,600	\$ 847,000	\$ 1,342,500		
	Total for Category 80 PROFESSIONAL SERVICES						\$ 10,406,000	\$ 17,785,600	\$ 28,191,500		
80.01	Service Development Plan/Service Environmental										
	Not Applicable										
80.02	Preliminary Engineering/Project Environmental						Total: \$ 1,776,700	\$ 3,186,100	\$ 4,962,800		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Preliminary Engineering (Rail)	2%	2%	2%	L Sum	\$ 1,766,900	\$ 573,100	\$ 1,193,800	\$ 1,766,900		typical industry averages based on a percentage of total construction costs
	Preliminary Engineering (Stations)	4%	4%	4%	L Sum	\$ 385,900	\$ 163,600	\$ 222,300	\$ 385,900		typical industry averages based on a percentage of total construction costs
	Operations Planning	0.5	0.5	1	L Sum	\$ 1,000,000	\$ 500,000	\$ 500,000	\$ 1,000,000		typical industry averages based on a percentage of total construction costs
	Tier 2 NEPA: Illinois Track		1	1	L Sum	\$ 140,000	\$ -	\$ 140,000	\$ 140,000	NEPA-Environmental	NEPA-Environmental
	Tier 2 NEPA: Iowa Track	1		1	L Sum	\$ 160,000	\$ 160,000	\$ -	\$ 160,000	NEPA-Environmental	NEPA-Environmental
	Tier 2 NEPA: Geneseo Station		1	1	L Sum	\$ 150,000	\$ -	\$ 150,000	\$ 150,000	NEPA-Environmental	NEPA-Environmental
	Tier 2 NEPA: Iowa City Station	1		1	L Sum	\$ 200,000	\$ 200,000	\$ -	\$ 200,000	NEPA-Environmental	NEPA-Environmental
	Tier 2 NEPA: Moline Station		1	1	L Sum	\$ 100,000	\$ -	\$ 100,000	\$ 100,000	NEPA-Environmental	NEPA-Environmental
	Tier 2 NEPA: Iowa City Layover	1		1	L Sum	\$ 180,000	\$ 180,000	\$ -	\$ 180,000	NEPA-Environmental	NEPA-Environmental
	Tier 2 NEPA: Colona Junction		1	1	L Sum	\$ 30,000	\$ -	\$ 30,000	\$ 30,000	NEPA-Environmental	NEPA-Environmental
	Tier 2 NEPA: Rock Island Yard		1	1	L Sum	\$ 150,000	\$ -	\$ 150,000	\$ 150,000	NEPA-Environmental	NEPA-Environmental
	Tier 2 NEPA: Wyanet Connection		1	1	L Sum	\$ 200,000	\$ -	\$ 200,000	\$ 200,000	NEPA-Environmental	NEPA-Environmental
	Tier 2 NEPA: Eola Yard		1	1	L Sum	\$ 500,000	\$ -	\$ 500,000	\$ 500,000	NEPA-Environmental	NEPA-Environmental
80.03	Final Design						Total: \$ 4,951,800	\$ 7,245,100	\$ 12,196,900		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Final Design (Rail)	4%	4%	4%	L Sum	\$ 3,533,900	\$ 1,146,200	\$ 2,387,700	\$ 3,533,900		typical industry averages based on a percentage of total construction costs
	Final Design (Stations)	6%	6%	6%	L Sum	\$ 578,800	\$ 245,400	\$ 333,400	\$ 578,800		typical industry averages based on a percentage of total construction costs
	Iowa Wayside Signal Design	1		1	L Sum	\$ 781,000	\$ 781,000	\$ -	\$ 781,000	Signal Cost Estimate	Signal Cost Estimate
	Illinois Wayside Signal Design		1	1	L Sum	\$ 954,000	\$ -	\$ 954,000	\$ 954,000	Signal Cost Estimate	Signal Cost Estimate
	Eola Yard Signal Improvements Design		1	1	L Sum	\$ 840,000	\$ -	\$ 840,000	\$ 840,000	Signal Cost Estimate	Signal Cost Estimate
	Iowa Crossing Signal Design	1		1	L Sum	\$ 479,200	\$ 479,200	\$ -	\$ 479,200	Signal Cost Estimate	Signal Cost Estimate
	Illinois Crossing Signal Design		1	1	L Sum	\$ 430,000	\$ -	\$ 430,000	\$ 430,000	Signal Cost Estimate	Signal Cost Estimate
	PTC / Traffic Control Design	0.5	0.5	1	L Sum	\$ 4,000,000	\$ 2,000,000	\$ 2,000,000	\$ 4,000,000	Signal Cost Estimate	Signal Cost Estimate
	Communications System Design	0.5	0.5	1	L Sum	\$ 600,000	\$ 300,000	\$ 300,000	\$ 600,000	Signal Cost Estimate	Signal Cost Estimate
80.04	Project management for design and construction						Total: \$ 1,872,100	\$ 3,897,500	\$ 5,769,600		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		

See detailed description below

Cat.	Description	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost	Detailed Description	Unit Cost Documentation
	Project Management (Rail)	5%	5%	5%	L Sum	\$ 4,417,300	\$ 1,432,700	\$ 2,984,600	\$ 4,417,300		typical industry averages based on a percentage of total construction costs
	Project Management (Stations)	5%	5%	5%	L Sum	\$ 482,300	\$ 204,500	\$ 277,800	\$ 482,300		typical industry averages based on a percentage of total construction costs
	Project Management (Vehicles)	2%	2%	2%	L Sum	\$ 870,000	\$ 234,900	\$ 635,100	\$ 870,000	27% Iowa, 73% Illinois - 2% of Vehicle Acquisition Subtotal	27% Iowa, 73% Illinois - 2% of Vehicle Acquisition Subtotal
80.05	Construction administration & management					Total:	\$ 1,309,800	\$ 2,609,900	\$ 3,919,700		
	Item	IA QTY	IL QTY	Total QTY	UOM	Unit Cost	IA Cost	IL Cost	Total Cost		
	Construction Management (Rail)	4%	4%	4%	L Sum	\$ 3,533,900	\$ 1,146,200	\$ 2,387,700	\$ 3,533,900		typical industry averages based on a percentage of total construction costs
	Construction Management (Stations)	4%	4%	4%	L Sum	\$ 385,800	\$ 163,600	\$ 222,200	\$ 385,800		typical industry averages based on a percentage of total construction costs
80.06	Professional liability and other non-construction insurance										
	Included in other items										
80.07	Legal; Permits; Review Fees by other agencies, cities, etc.										
	Included in other items										
80.08	Surveys, testing, investigation										
	Included in other items										
80.09	Engineering inspection										
	Included in other items										
80.10	Start up										
	Included in other items										

Total NEPA Tier 2 Projects (2011\$)	Train Sets	Construction	NEPA	Prelim Design	Final Design	PM/CM	5% Contingency	Total	Ia DOT	Ill DOT	Iowa City Station	Moline Station	Geneseo Station	Total
Illinois Track Improvements	\$ -	\$ 41,212,140	\$ 146,680	\$ 1,149,880	\$ 1,702,780	\$ 2,817,890	\$ 2,475,230	\$ 49,504,600		\$ 49,504,600				\$ 49,504,600
Iowa Track Improvements	\$ -	\$ 37,589,600	\$ 167,580	\$ 1,054,500	\$ 1,563,510	\$ 2,388,585	\$ 2,250,725	\$ 45,014,500	\$ 45,014,500					\$ 45,014,500
Illinois Train Control & Comms	\$ -	\$ 21,437,035	\$ -	\$ -	\$ 3,408,125	\$ -	\$ 1,307,640	\$ 26,152,800		\$ 26,152,800				\$ 26,152,800
Iowa Train Control & Comms	\$ -	\$ 21,226,420	\$ -	\$ -	\$ 3,227,055	\$ -	\$ 1,287,025	\$ 25,740,500	\$ 25,740,500					\$ 25,740,500
Geneseo, Illinois, Station	\$ -	\$ 2,196,685	\$ 157,130	\$ 92,245	\$ 138,415	\$ 207,575	\$ 146,950	\$ 2,939,000					\$ 2,939,000	\$ 2,939,000
Iowa City, Iowa, Station	\$ -	\$ 4,080,345	\$ 209,475	\$ 171,380	\$ 257,070	\$ 385,605	\$ 268,625	\$ 5,372,500			\$ 5,372,500			\$ 5,372,500
Moline, Illinois, Station	\$ -	\$ 3,345,615	\$ 104,785	\$ 140,505	\$ 210,710	\$ 316,160	\$ 216,725	\$ 4,334,500				\$ 4,334,500		\$ 4,334,500
Iowa City, Iowa, Layover Facility	\$ -	\$ 3,306,760	\$ 188,575	\$ 69,445	\$ 138,890	\$ 312,455	\$ 211,375	\$ 4,227,500	\$ 4,227,500					\$ 4,227,500
Colona, Illinois, Improvements	\$ -	\$ 1,915,200	\$ 31,445	\$ 40,185	\$ 80,465	\$ 181,070	\$ 118,335	\$ 2,366,700		\$ 2,366,700				\$ 2,366,700
Rock Island, Illinois, Yard Bypass	\$ -	\$ 3,564,115	\$ 157,130	\$ 74,765	\$ 149,720	\$ 336,870	\$ 225,400	\$ 4,508,000		\$ 4,508,000				\$ 4,508,000
Wyanet Connection	\$ -	\$ 9,876,295	\$ 209,475	\$ 207,385	\$ 414,770	\$ 933,280	\$ 612,695	\$ 12,253,900		\$ 12,253,900				\$ 12,253,900
Eola Yard Improvements	\$ -	\$ 30,120,130	\$ 523,735	\$ 301,720	\$ 1,483,235	\$ 1,357,645	\$ 1,778,235	\$ 35,564,700		\$ 35,564,700				\$ 35,564,700
Train Sets	\$ 62,049,535	\$ -	\$ -	\$ -	\$ -	\$ 911,216	\$ 3,313,724	\$ 66,274,475	\$ 17,894,108	\$ 48,380,367				\$ 66,274,475
Total (2011 \$): (rounded)	\$ 62,049,535	\$ 179,870,340	\$ 1,896,010	\$ 3,302,010	\$ 12,774,745	\$ 10,148,351	\$ 14,212,684	\$ 284,253,675	\$ 92,880,000	\$ 178,730,000	\$ 5,370,000	\$ 4,330,000	\$ 2,940,000	\$ 284,250,000
20% Cost Share (2011\$) (rounded)									\$ 18,576,000	\$ 35,746,000	\$ 1,074,000	\$ 866,000	\$ 588,000	\$ 56,850,000
80% Funded (2011\$) (rounded)									\$ 74,304,000	\$ 142,984,000	\$ 4,296,000	\$ 3,464,000	\$ 2,352,000	\$ 227,400,000
Total NEPA Tier 2 Projects (YOY)														
Illinois Track Improvements	\$ -	\$ 47,029,898	\$ 146,680	\$ 1,149,880	\$ 1,859,478	\$ 3,215,681	\$ 2,810,611	\$ 56,212,228		\$ 56,210,000				\$ 56,210,000
Iowa Track Improvements	\$ -	\$ 42,895,978	\$ 167,580	\$ 1,054,500	\$ 1,707,392	\$ 2,725,772	\$ 2,555,327	\$ 51,106,550	\$ 51,110,000					\$ 51,110,000
Illinois Train Control & Comms	\$ -	\$ 24,463,218	\$ -	\$ -	\$ 3,721,758	\$ -	\$ 1,483,420	\$ 29,668,396		\$ 29,670,000				\$ 29,670,000
Iowa Train Control & Comms	\$ -	\$ 24,222,871	\$ -	\$ -	\$ 3,524,025	\$ -	\$ 1,460,363	\$ 29,207,259	\$ 29,210,000					\$ 29,210,000
Geneseo, Illinois, Station	\$ -	\$ 2,398,835	\$ 157,130	\$ 92,245	\$ 144,644	\$ 226,677	\$ 158,923	\$ 3,178,453					\$ 3,180,000	\$ 3,180,000
Iowa City, Iowa, Station	\$ -	\$ 4,455,839	\$ 209,475	\$ 171,380	\$ 268,638	\$ 421,090	\$ 290,864	\$ 5,817,287			\$ 5,820,000			\$ 5,820,000
Moline, Illinois, Station	\$ -	\$ 3,653,495	\$ 104,785	\$ 140,505	\$ 220,192	\$ 345,255	\$ 234,960	\$ 4,699,191				\$ 4,700,000		\$ 4,700,000
Iowa City, Iowa, Layover Facility	\$ -	\$ 3,611,065	\$ 188,575	\$ 69,445	\$ 145,140	\$ 341,209	\$ 229,233	\$ 4,584,667	\$ 4,580,000					\$ 4,580,000
Colona, Illinois, Improvements	\$ -	\$ 2,091,446	\$ 31,445	\$ 40,185	\$ 84,086	\$ 197,733	\$ 128,679	\$ 2,573,574		\$ 2,570,000				\$ 2,570,000
Rock Island, Illinois, Yard Bypass	\$ -	\$ 3,892,103	\$ 157,130	\$ 74,765	\$ 156,457	\$ 367,870	\$ 244,649	\$ 4,892,974		\$ 4,890,000				\$ 4,890,000
Wyanet Connection	\$ -	\$ 10,785,161	\$ 209,475	\$ 207,385	\$ 433,435	\$ 1,019,165	\$ 666,033	\$ 13,320,653		\$ 13,320,000				\$ 13,320,000
Eola Yard Improvements	\$ -	\$ 32,891,935	\$ 523,735	\$ 301,720	\$ 1,549,981	\$ 1,482,582	\$ 1,934,208	\$ 38,684,161		\$ 38,680,000				\$ 38,680,000
Train Sets	\$ 62,049,535	\$ -	\$ -	\$ -	\$ -	\$ 974,589	\$ 3,544,186	\$ 66,568,310	\$ 17,970,000	\$ 48,590,000				\$ 66,560,000
Total (YOY \$): (Rounded)	\$ 62,049,535	\$ 202,391,844	\$ 1,896,010	\$ 3,302,010	\$ 13,815,225	\$ 11,317,624	\$ 15,741,456	\$ 310,513,704	\$ 102,870,000	\$ 193,930,000	\$ 5,820,000	\$ 4,700,000	\$ 3,180,000	\$ 310,500,000
20% Cost Share (YOY\$) (rounded)									\$ 20,574,000	\$ 38,786,000	\$ 1,164,000	\$ 940,000	\$ 636,000	\$ 62,100,000
80% Funded (YOY\$) (rounded)									\$ 82,296,000	\$ 155,144,000	\$ 4,656,000	\$ 3,760,000	\$ 2,544,000	\$ 248,400,000

IOWA DOT Bid Tabs

Measurement

August 2009 thru July 2010

Total Cost Item Code - DOLLARS -	Unit Price in Dollars			Total Quantity
	Bid Item Description Low	High	Avg.	
2101-0850001 1,027,966.78	CLEARING AND GRUBBING 200.00	100,000.00	2,311.20	444.777 ACRE
2101-0850002 936,932.80	CLEARING AND GRUBBING 2.50	750.00	12.05	77,723.590 UNIT
2101-1001000 4,400.00	1, REMOVAL OF FLOOD DEBRIS 1,900.00	2,500.00	2,200.00	2.000 LS
2102-0425046 33,692.56	SELECTED BACKFILL 2.70	35.00	8.12	4,148.000 CY
2102-0425070 6,714,582.00	SPECIAL BACKFILL 7.50	60.00	11.97	560,903.470 TON
2102-0425071 289,218.34	SPECIAL BACKFILL 22.50	100.00	36.86	7,846.900 CY
2102-0425220 350.00	SPECIAL BACKFILL MATERIAL, PLACE ONLY 25.00	25.00	25.00	14.000 CY
2102-2625000 1,127,798.67	EMBANKMENT- IN PLACE 2.99	66.34	8.35	134,987.440 CY
2102-2710070 11,938,562.68	EXCAVATION, CLASS 10, 1.25	500.00	4.04	ROADWAY AND BORROW 2957052.070 CY
2102-2710080 36,527.30	EXCAVATION, CLASS 10, 2.25	33.00	7.31	UNSTABLE OR 4,998.000 CY
2102-2710090 333,684.85	EXCAVATION, CLASS 10, 2.00	15.80	7.26	WASTE 45,941.000 CY
2102-2712015 101,502.80	EXCAVATION, CLASS 12, 3.00	350.00	30.38	BOULDERS OR ROCK FRAGMENTS 3,341.000 CY
2102-2712070 138,485.00	EXCAVATION, CLASS 12, 2.25	50.00	3.48	ROADWAY AND BORROW 39,750.000 CY
2102-2713070 1,834,122.80	EXCAVATION, CLASS 13, 1.49	38.33	5.85	ROADWAY AND BORROW 313,445.910 CY
2102-2713090 1,693,334.87	EXCAVATION, CLASS 13, 4.00	123.00	7.08	WASTE 239,118.220 CY
2102-4560000 140,272.00	LOCATING TILE LINES 50.00	1,000.00	114.11	1,229.300 STA

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2102-6336000	PRESPLI TTI NG OF ROCK CUTS				1,789.600 SY
19,685.60	11.00	11.00	11.00		
2104-2710020	EXCAVATI ON, CLASS 10, CHANNEL				159,344.480 CY
699,935.76	1.49	52.80	4.39		
2104-2712020	EXCAVATI ON, CLASS 12, CHANNEL				289.000 CY
4,267.00	5.50	16.00	14.76		
2104-2713020	EXCAVATI ON, CLASS 13, CHANNEL				6,874.200 CY
62,873.33	2.25	12.48	9.15		
2105-8425005	TOPSO L, FURNI SH AND SPREAD				57,275.900 CY
881,254.68	6.00	200.00	15.39		
2105-8425011	TOPSO L, SPREAD				10,613.200 CY
40,408.40	3.00	27.00	3.81		
2105-8425015	TOPSO L, STRI P, SALVAGE AND SPREAD				441,287.200 CY
1,804,740.42	2.20	76.50	4.09		
2105-8425020	TOPSO L, STRI P AND STOCKPI LE				28,405.000 CY
82,152.75	2.00	7.10	2.89		
2107-0425020	COMPACTI NG BACKFI LL ADJACENT TO BRI DGES, CULVERTS OR STRUCTURES				2,878.300 CY
20,587.40	4.20	38.00	7.15		
2107-0875000	COMPACTI ON W TH MOI STURE AND DENSIT Y CONTROL				83,386.000 CY
125,381.62	0.01	22.00	1.50		
2107-0875100	COMPACTI ON W TH MOI STURE CONTROL				444,593.000 CY
334,078.88	0.25	3.00	0.75		
2107-3825025	GRANULAR MATERI AL FOR BLANKET AND SUBDRAI N				2,585.700 CY
71,636.28	18.85	45.00	27.70		
2108-5025000	OVERHAUL				5045969.140 ST-Y
123,599.87	0.01	0.15	0.02		
2109-8225100	SPECI AL COMPACTI ON OF SUBGRADE				790.120 STA
322,843.45	80.00	1,535.00	408.60		
2110-3825010	GRANULAR MATERI AL				1,000.590 TON
20,466.06	7.00	35.00	20.45		
2110-8200000	CONSTRUCTI ON OF SOI L AGGREGATE SUBBASE				11.310 M LE
67,170.00	5,000.00	7,000.00	5,938.99		
2111-8174100	GRANULAR SUBBASE				670,319.700 SY
3,879,134.41	1.90	28.00	5.79		
2111-8174200	GRANULAR SUBBASE, PLACE ONLY				92,153.000 SY
80,220.88	0.61	3.00	0.87		
2112-0000100	W CK DRAI N				14,192.000 LF
31,932.00	2.25	2.25	2.25		
2113-0001000	SUBGRADE STABI LI ZATI ON MATERI AL,				35.000 SY
350.00	10.00	10.00	10.00		

2113-0001100	SUBGRADE STABILIZATION MATERIAL, POLYMER GRID	394,146.950	SY
698,738.77	1.42 15.00 1.77		
2115-0100000	MODIFIED SUBBASE	315,315.783	CY
8,017,349.79	17.00 283.00 25.43		
2115-0100200	MODIFIED SUBBASE, PLACE ONLY	26,313.880	CY
92,668.74	1.50 6.02 3.52		
2116-0000210	ASPHALT STABILIZING AGENT	242.840	TON
149,346.60	615.00 615.00 615.00		
2121-7425010	GRANULAR SHOULDERS, TYPE A	168,425.900	TON
2,804,008.35	7.00 52.00 16.65		
2121-7425020	GRANULAR SHOULDERS, TYPE B	464,686.880	TON
8,925,503.44	8.06 93.50 19.21		
2121-7425021	GRANULAR SHOULDERS, TYPE B, AS PER PLAN	16.400	STA
7,568.20	228.00 775.00 461.48		
2121-8450810	TRENCHING AND RESHAPING	445.560	STA
50,813.61	100.00 1,000.00 114.04		
2122-5190007	PAVED SHOULDER, P. C. CONCRETE, 7 I N.	3,594.000	SY
277,898.85	40.00 175.00 77.32		
2122-5190008	PAVED SHOULDER, P. C. CONCRETE, 8 I N.	28,455.500	SY
637,464.49	20.75 63.00 22.40		
2122-5190009	PAVED SHOULDER, P. C. CONCRETE, 9 I N.	351.400	SY
14,758.80	42.00 42.00 42.00		
2122-5190010	PAVED SHOULDER, P. C. CONCRETE, 10 I N.	66.600	SY
4,781.88	71.80 71.80 71.80		
2122-5190012	PAVED SHOULDER, P. C. CONCRETE, 12 I N.	976.000	SY
102,814.00	60.00 123.22 105.34		
2122-5190110	PAVED SHOULDER, P. C. CONCRETE, 11 I N.	1,242.000	SY
64,584.00	52.00 52.00 52.00		
2122-5190501	PAVED SHOULDER, PORTLAND CEMENT CONCRETE (PAVED SHOULDER PANEL FOR BRIDGE END DRAIN)	2,804.090	SY
297,655.46	46.37 370.00 106.15		
2122-5191003	REINFORCED PAVED SHOULDER (RE-44J)	8,535.000	SY
663,030.00	75.00 90.00 77.68		
2122-5191004	REINFORCED PAVED SHOULDER	57.900	SY
16,291.20	191.00 298.00 281.37		
2122-5500060	PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 6 I N.	324,565.350	SY
7,840,206.96	9.70 150.00 24.16		
2122-5500080	PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 8 I N.	82,202.510	SY
2,662,390.11	26.43 100.00 32.39		
2122-5500090	PAVED SHOULDER, HOT MIX ASPHALT MIXTURE,	100.000	SY

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13,490.00	134.90 9 IN.	134.90	134.90	
23,375.00	2122-5500100 PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 10 IN.	42.50	42.50	42.50
				550.000 SY
251,421.45	2122-5500120 PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 12 IN.	45.00	68.25	51.34
				4,897.600 SY
269,587.72	2122-7450080 SHOULDER STRENGTHENING, OPTIONAL HOT MIX ASPHALT MIXTURE OR PORTLAND CEMENT CONC RETE, 8 IN.	45.00	80.00	52.66
				5,118.920 SY
1,435,325.03	2123-7450000 SHOULDER CONSTRUCTION, EARTH	39.03	892.50	137.68
				10,425.280 STA
1,009,034.98	2123-7450020 SHOULDER FINISHING, EARTH	24.00	825.00	131.01
				7,701.970 STA
43,170.00	2125-2225050 RESHAPING DITCHES	150.00	900.00	271.68
				158.900 STA
9,596.00	2126-8275058 RECLAIMING PRESENT SURFACING MATERIAL	3.60	6.50	5.30
				1,810.000 CY
80,943.80	2126-8300200 RECLAIM AND STOCKPILE PRESENT SURFACING MATERIAL	26.60	26.60	26.60
				3,043.000 CY
41,210.40	2127-6725020 RECONSTRUCTION OF ROADBED	156.10	156.10	156.10
				264.000 STA
143,557.00	2128-0000200 CONTRACTOR STOCKPILED SHOULDER MATERIAL	1.83	16.00	7.60
				18,880.000 TCN
7,031.50	2201-0505050 BASE, STANDARD OR SLIP FORM P. C. CONCRETE, 5 IN.	24.50	24.50	24.50
				287.000 SY
14,293.40	2201-0505060 BASE, STANDARD OR SLIP FORM P. C. CONCRETE, 6 IN.	39.87	39.87	39.87
				358.500 SY
325,045.50	2201-0505090 BASE, STANDARD OR SLIP FORM P. C. CONCRETE, 9 IN.	40.50	43.50	43.32
				7,503.000 SY
156,091.07	2210-0475105 CHOCHE STONE BASE	7.07	17.87	15.90
				9,816.000 TCN
13,700.00	2210-0475115 GRADED STONE BASE	10.00	10.00	10.00
				1,370.000 TCN
192,803.03	2210-0475290 MACADAM STONE BASE	7.95	32.00	18.15
				10,625.180 TCN
396,815.54	2212-0475095 CLEANING AND PREPARATION OF BASE	100.00	58,586.30	1,110.03
				357.483 M LE
	2212-5070310 PATCHES, FULL-DEPTH REPAIR			
				73,463.860 SY

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5, 978, 165. 53	34. 00	320. 00	81. 38	
2212- 5070320	PATCHES, PARTI AL- DEPTH REPAI R			24, 801. 400 SY
791, 523. 84	7. 75	236. 25	31. 91	
2212- 5070330	PATCHES BY COUNT (REPAI R)			3, 734. 000 EACH
538, 041. 13	32. 55	1, 700. 00	144. 09	
2212- 5075000	SURFACE PATCHES			100. 000 TON
33, 510. 00	170. 00	434. 50	335. 10	
2212- 5075001	HOT M X ASPHALT SURFACE PATCHES			1, 474. 550 TON
311, 985. 19	50. 00	1, 000. 00	211. 58	
2213- 2713300	EXCAVATI ON, CLASS 13, FOR W DENI NG			109, 793. 130 CY
1, 434, 346. 90	3. 25	105. 00	13. 06	
2213- 6745500	REMOVAL OF CURB			875. 096 STA
219, 119. 31	8. 40	12, 000. 00	250. 39	
2213- 6745700	REMOVAL OF FLUMES			5. 000 EACH
5, 010. 00	997. 50	1, 020. 00	1, 002. 00	
2213- 7100400	RELOCATI ON OF MAI L BOXES			346. 000 EACH
38, 394. 30	50. 00	365. 00	110. 97	
2213- 8200000	BASE W DENI NG, HOT M X ASPHALT M XTURE			66, 839. 940 TON
1, 995, 355. 23	20. 25	130. 00	29. 85	
2213- 8201030	BASE W DENI NG, 3 I N. HOT M X ASPHALT M XTURE			112. 700 SY
1, 771. 64	15. 72	15. 72	15. 72	
2213- 8201040	BASE W DENI NG, 4 I N. HOT M X ASPHALT M XTURE			613. 000 SY
16, 252. 00	24. 40	40. 00	26. 51	
2213- 8201045	BASE W DENI NG, 4. 5 I N. HOT M X ASPHALT M XTURE			647. 700 SY
15, 285. 72	23. 60	23. 60	23. 60	
2213- 8201055	BASE W DENI NG, 5. 5 I N. HOT M X ASPHALT M XTURE			960. 000 SY
38, 400. 00	40. 00	40. 00	40. 00	
2213- 8201060	BASE W DENI NG, 6 I N. HOT M X ASPHALT M XTURE			3, 161. 210 SY
130, 068. 70	33. 20	42. 00	41. 15	
2213- 8201080	BASE W DENI NG, 8 I N. HOT M X ASPHALT M XTURE			14, 697. 000 SY
632, 660. 00	41. 00	54. 00	43. 05	
2213- 8202080	BASE W DENI NG, 8 I N. PORTLAND CEMENT CONCRETE			979. 000 SY
41, 251. 00	40. 00	43. 00	42. 14	
2213- 8202090	BASE W DENI NG, 9 I N. PORTLAND CEMENT CONCRETE			9, 225. 000 SY
415, 789. 20	43. 60	50. 80	45. 07	
2214- 5145150	PAVEMENT SCARI FI CATI ON			1414852. 552 SY
3, 083, 651. 19	0. 31	119. 00	2. 18	

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2214-5145160	PAVEMENT SCARI FI CATI ON	109,256.520	TON
750,925.14	5.43 262.50 6.87		
2214-7450050	BLADI NG AND SHAPI NG SHOULDER MATERI AL	5,011.980	STA
184,870.16	5.00 840.50 36.89		
2216-0994000	CRACKI NG AND SEATI NG OF P. C. C. PAVEMENT	113,265.770	SY
35,856.00	0.16 2.42 0.32		
2217-1000000	RUBBLI ZED PAVEMENT	104,325.000	SY
106,243.25	0.90 1.15 1.02		
2301-0685550	BRI DGE APPROACH PAVEMENT, AS PER PLAN	7,620.260	SY
1,095,798.55	46.00 300.00 143.80		
2301-0690180	BRI DGE APPROACH, RK- 18	1,387.260	SY
154,307.00	69.70 130.00 111.23		
2301-0690190	BRI DGE APPROACH, RK- 19	6,645.940	SY
834,192.63	60.00 154.50 125.52		
2301-0690200	BRI DGE APPROACH, RK- 20	26,150.120	SY
3,815,341.96	110.00 200.00 145.90		
2301-0690250	BRI DGE APPROACH, RK- 25	4,230.600	SY
590,592.76	85.00 325.00 139.60		
2301-0690260	BRI DGE APPROACH, RK- 26	2,813.540	SY
412,706.60	110.00 210.00 146.69		
2301-1003080	STANDARD OR SLI P- FORM PORTLAND CEMENT CONCRETE PAVEMENT, QM C, CLASS 3 DURABI LY, 8 I N.	5,473.000	SY
194,838.80	35.60 35.60 35.60		
2301-1003100	STANDARD OR SLI P- FORM PORTLAND CEMENT CONCRETE PAVEMENT, QM C, CLASS 3 DURABI LY, 10 I N.	520,379.000	SY
13,265,121.50	25.00 26.50 25.49		
2301-1004110	STANDARD OR SLI P- FORM PORTLAND CEMENT CONCRETE PAVEMENT, QM C, CLASS 3I DURABI TY, 11 I N.	78,858.000	SY
2,838,888.00	36.00 36.00 36.00		
2301-1004120	STANDARD OR SLI P- FORM PORTLAND CEMENT CONCRETE PAVEMENT, QM C, CLASS 3I DURABI TY, 12 I N.	265,530.500	SY
8,754,540.59	32.97 32.97 32.97		
2301-1012090	STANDARD OR SLI P FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS A, CLASS 2 DURALI TY, 9 I N.	571.300	SY
38,848.40	68.00 68.00 68.00		
2301-1013080	STANDARD OR SLI P FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS A, CLASS 3 DURALI TY, 8 I N.	3,041.700	SY
129,424.34	42.55 42.55 42.55		
2301-1032000	STANDARD OR SLI P FORM PORTLAND CEMENT	16,879.000	SY
426,363.54	25.26 25.26 25.26		

		CONCRETE PAVEMENT, CLASS C, CLASS 2 DURALI TY, VARI ABLE THI CKNESS			
2301-1032060	STANDARD OR SLI P FORM PORTLAND CEMENT				1,742.000 SY
51,389.00		29.50	29.50	29.50	
		CONCRETE PAVEMENT, CLASS C, CLASS 2 DURALI TY, 6 I N.			
2301-1032070	STANDARD OR SLI P FORM PORTLAND CEMENT				4,865.000 SY
179,657.10		34.00	40.50	36.93	
		CONCRETE PAVEMENT, CLASS C, CLASS 2 DURALI TY, 7 I N.			
2301-1032080	STANDARD OR SLI P FORM PORTLAND CEMENT				36,153.400 SY
1,440,408.77		23.79	89.00	39.84	
		CONCRETE PAVEMENT, CLASS C, CLASS 2 DURALI TY, 8 I N.			
2301-1032090	STANDARD OR SLI P FORM PORTLAND CEMENT				92,411.530 SY
2,207,841.98		22.79	64.00	23.89	
		CONCRETE PAVEMENT, CLASS C, CLASS 2 DURALI TY, 9 I N.			
2301-1032100	STANDARD OR SLI P FORM PORTLAND CEMENT				13,455.300 SY
499,828.83		25.47	114.00	37.15	
		CONCRETE PAVEMENT, CLASS C, CLASS 2 DURALI TY, 10 I N.			
2301-1033000	STANDARD OR SLI P FORM PORTLAND CEMENT				46,730.660 SY
1,026,599.17		20.80	22.54	21.97	
		CONCRETE PAVEMENT, CLASS C, CLASS 3 DURALI TY, VARI ABLE THI CKNESS			
2301-1033060	STANDARD OR SLI P FORM PORTLAND CEMENT				15,665.000 SY
509,987.24		27.87	35.00	32.56	
		CONCRETE PAVEMENT, CLASS C, CLASS 3 DURALI TY, 6 I N.			
2301-1033070	STANDARD OR SLI P FORM PORTLAND CEMENT				34,810.440 SY
1,134,348.44		20.00	60.00	32.59	
		CONCRETE PAVEMENT, CLASS C, CLASS 3 DURALI TY, 7 I N.			
2301-1033080	STANDARD OR SLI P FORM PORTLAND CEMENT				165,634.450 SY
6,002,341.24		27.33	80.00	36.24	
		CONCRETE PAVEMENT, CLASS C, CLASS 3 DURALI TY, 8 I N.			
2301-1033085	STANDARD OR SLI P FORM PORTLAND CEMENT				13,997.150 SY
509,762.78		28.50	45.00	36.42	
		CONCRETE PAVEMENT, CLASS C, CLASS 3 DURALI TY, 8.5 I N.			
2301-1033090	STANDARD OR SLI P FORM PORTLAND CEMENT				92,211.020 SY
3,631,281.57		26.90	75.00	39.38	
		CONCRETE PAVEMENT, CLASS C, CLASS 3 DURALI TY, 9 I N.			
2301-1033095	STANDARD OR SLI P FORM PORTLAND CEMENT				53,623.900 SY
2,218,158.34		36.79	58.00	41.37	
		CONCRETE PAVEMENT, CLASS C, CLASS 3 DURALI TY, 9.5 I N.			

2301-1033100	STANDARD OR SLI P FORM PORTLAND CEMENT	147,339.200	SY
6,486,226.70	35.00 90.00 44.02 CONCRETE PAVEMENT, CLASS C, CLASS 3 DURALI TY, 10 I N.		
2301-1033110	STANDARD OR SLI P FORM PORTLAND CEMENT	3,058.200	SY
140,677.20	46.00 46.00 46.00 CONCRETE PAVEMENT, CLASS C, CLASS 3 DURALI TY, 11 I N.		
2301-1033120	STANDARD OR SLI P FORM PORTLAND CEMENT	42,970.920	SY
2,096,005.70	39.00 80.00 48.78 CONCRETE PAVEMENT, CLASS C, CLASS 3 DURALI TY, 12 I N.		
2301-1033125	STANDARD OR SLI P FORM PORTLAND CEMENT	328.200	SY
26,001.86	54.57 128.00 79.23 CONCRETE PAVEMENT, CLASS C, CLASS 3 DURALI TY, 12.5 I N.		
2301-1033130	STANDARD OR SLI P FORM PORTLAND CEMENT	34,612.000	SY
1,367,174.00	39.50 39.50 39.50 CONCRETE PAVEMENT, CLASS C, CLASS 3 DURALI TY, 13 I N.		
2301-1033140	STANDARD OR SLI P FORM PORTLAND CEMENT	37.000	SY
2,479.00	67.00 67.00 67.00 CONCRETE PAVEMENT, CLASS C, CLASS 3 DURALI TY, 14 I N.		
2301-1034080	STANDARD OR SLI P FORM PORTLAND CEMENT	77,917.490	SY
1,840,384.32	22.09 67.00 23.62 CONCRETE PAVEMENT, CLASS C, CLASS 3I DURI LI TY, 8 I N.		
2301-1034100	STANDARD OR SLI P FORM PORTLAND CEMENT	190.670	SY
11,487.87	60.25 60.25 60.25 CONCRETE PAVEMENT, CLASS C, CLASS 3I DURI LI TY, 10 I N.		
2301-1034110	STANDARD OR SLI P FORM PORTLAND CEMENT	4,534.000	SY
252,037.00	55.00 56.00 55.59 CONCRETE PAVEMENT, CLASS C, CLASS 3I DURI LI TY, 11 I N.		
2301-1034120	STANDARD OR SLI P FORM PORTLAND CEMENT	7,803.900	SY
501,892.47	53.71 117.36 64.31 CONCRETE PAVEMENT, CLASS C, CLASS 3I DURI LI TY, 12 I N.		
2301-1082080	STANDARD OR SLI P FORM PORTLAND CEMENT	349.220	SY
28,985.26	83.00 83.00 83.00 CONCRETE PAVEMENT, CLASS M, CLASS 2 DURALI TY, 8 I N.		
2301-1083070	STANDARD OR SLI P FORM PORTLAND CEMENT	1,030.000	SY
47,380.00	46.00 46.00 46.00 CONCRETE PAVEMENT, CLASS M, CLASS 3 DURALI TY, 7 I N.		
2301-1083080	STANDARD OR SLI P FORM PORTLAND CEMENT	25.000	SY
1,337.50	53.50 53.50 53.50 CONCRETE PAVEMENT, CLASS M, CLASS 3		

DURALI TY, 8 I N.					
2301-1083085	STANDARD OR SLI P FORM PORTLAND CEMENT				665.000 SY
36,242.50	54.50 54.50 54.50				
	CONCRETE PAVEMENT, CLASS M CLASS 3				
	DURALI TY, 8.5 I N.				
2301-1083095	STANDARD OR SLI P FORM PORTLAND CEMENT				2,095.000 SY
111,790.00	44.94 56.00 53.36				
	CONCRETE PAVEMENT, CLASS M CLASS 3				
	DURALI TY, 9.5 I N.				
2301-1083100	STANDARD OR SLI P FORM PORTLAND CEMENT				52.000 SY
3,218.80	61.90 61.90 61.90				
	CONCRETE PAVEMENT, CLASS M CLASS 3				
	DURALI TY, 10 I N.				
2301-4874006	MEDI AN, DOWELLED P. C. CONCRETE, AS PER				5,682.000 SY
464,446.00	39.00 275.00 81.74				
	PLAN				
2301-4874106	MEDI AN, DOWELLED P. C. CONCRETE, 6 I NCH				4,322.400 SY
203,481.93	38.00 98.73 47.08				
2301-4874500	MEDI AN, P. C. CONCRETE, AS PER PLAN				68.000 SY
4,665.00	60.50 75.00 68.60				
2301-4875004	MEDI AN, P. C. CONCRETE, 4 I N.				512.000 SY
22,161.00	40.50 48.00 43.28				
2301-4875006	MEDI AN, P. C. CONCRETE, 6 I N.				4,733.210 SY
219,602.24	32.50 121.70 46.40				
2301-4877020	2 I NCH CONDUI T, PAVED I SLAND				188.000 LF
5,300.00	25.00 30.00 28.19				
2301-6911722	PORTLAND CEMENT CONCRETE PAVEMENT				75.000 LS
139,782.00	250.00 10,000.00 1,863.76				
	SAMPLES				
2301-7000110	PAYMENT ADJUSTMENT				936,500.000 EACH
936,500.00	1.00 1.00 1.00				
	I NCENTI VE/ DI SI NCENTI VE FOR PCC PAVEMENT				
	E)				
2301-7000120	PAYMENT ADJUSTMENT				694,000.000 EACH
694,000.00	1.00 1.00 1.00				
	I NCENTI VE/ DI SI NCENTI VE FOR QM C PCC				
	PAVEORKABI LI TY FACTORS				
2301-9090000	QUALI TY MANAGEMENT - CONCRETE (QM C)				259,507.200 CY
259,507.20	1.00 1.00 1.00				
2301-9091000	RUMBLE STRI P PANEL (PCC SURFACE)				57.000 EACH
10,430.00	50.00 1,165.00 182.98				
2302-1200070	PORTLAND CEMENT CONCRETE PAVEMENT				103.400 SY
4,363.48	42.20 42.20 42.20				
	W DENI NG, 7 I N.				
2302-1200080	PORTLAND CEMENT CONCRETE PAVEMENT				4,477.000 SY
189,092.98	38.75 43.56 42.24				
	W DENI NG, 8 I N.				

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2302-1200095	PORTLAND CEMENT CONCRETE PAVEMENT 267,496.00	58.00	58.00	58.00	4,612.000 SY
	W DENI NG, 9.5 I N.				
2302-1200100	PORTLAND CEMENT CONCRETE PAVEMENT 113,968.00	47.50	59.00	52.09	2,188.000 SY
	W DENI NG, 10 I N.				
2302-7430100	SHOULDERS, TYPE A 6,000.00	1,000.00	1,000.00	1,000.00	6.000 STA
2302-7430200	SHOULDERS, TYPE B 51,708.00	40.00	40.00	40.00	1,292.700 STA
2303-0000100	HOT M X ASPHALT M XTURE, COMMERCI AL M X 373,003.50	83.00	285.00	107.35	3,474.600 TON
	(I NCLUDES ASPHALT BI NDER), AS PER PLAN				
2303-0001000	HOT M X ASPHALT M XTURE, WEDGE, LEVELI NG 936,079.34	19.52	175.85	46.44	20,156.420 TON
	OR STRENGTHENI NG COURSE				
2303-0013380	HOT M X ASPHALT M XTURE (100,000 ESAL), 62,752.00	53.00	53.00	53.00	1,184.000 TON
	BASE, I NTERMEDI ATE, OR SURFACE COURSE, 3 / 8 I N. M X, NO SPCL FRI C REQ				
2303-0013500	HOT M X ASPHALT M XTURE (100,000 ESAL), 243,527.00	60.00	175.00	60.61	4,018.000 TON
	BASE, I NTERMEDI ATE, OR SURFACE COURSE, 1 / 2 I N. M X, NO SPCL FRI C REQ				
2303-0021500	HOT M X ASPHALT M XTURE (300,000 ESAL), 501,277.01	29.54	87.90	36.76	13,636.430 TON
	BASE COURSE, 1/ 2 I N. M X				
2303-0021750	HOT M X ASPHALT M XTURE (300,000 ESAL), 662,261.25	32.25	145.00	33.00	20,068.500 TON
	BASE COURSE, 3/ 4 I N. M X				
2303-0023380	HOT M X ASPHALT M XTURE (300,000 ESAL), 258,907.50	83.25	83.25	83.25	3,110.000 TON
	I NTERMEDI ATE OR SURFACE COURSE, 3/ 8 I N. M X, NO SPCL FRI C REQ				
2303-0023500	HOT M X ASPHALT M XTURE (300,000 ESAL), 6,563,325.93	23.16	177.54	33.39	196,587.229 TON
	I NTERMEDI ATE OR SURFACE COURSE, 1/ 2 I N. M X, NO SPCL FRI C REQ				
2303-0031500	HOT M X ASPHALT M XTURE (1,000,000 2,313,302.47	23.88	70.00	29.50	78,421.870 TON
	ESAL), BASE COURSE, 1/ 2 I N. M X				
2303-0031750	HOT M X ASPHALT M XTURE (1,000,000 1,233,554.11	28.06	82.00	31.71	38,898.910 TON
	ESAL), BASE COURSE, 3/ 4 I N. M X				
2303-0032500	HOT M X ASPHALT M XTURE (1,000,000 4,128,974.94	18.48	135.00	31.84	129,683.660 TON
	ESAL), I NTERMEDI ATE COURSE, 1/ 2 I N. M X				

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2303-0032750	HOT M X ASPHALT M XTURE (1, 000, 000	7, 538. 000 TON
241, 735. 30	29. 74 95. 00 32. 07 ESAL), I NTERMEDI ATE COURSE, 3/ 4 I N. M X	
2303-0033380	HOT M X ASPHALT M XTURE (1, 000, 000	13. 660 TON
1, 570. 90	115. 00 115. 00 115. 00 ESAL), SURFACE COURSE, 3/ 8 I N. M X, NO SL FRI CTI ON REQUI REMENT	
2303-0033500	HOT M X ASPHALT M XTURE (1, 000, 000	143, 502. 350 TON
4, 884, 599. 28	17. 61 175. 00 34. 04 ESAL), SURFACE COURSE, 1/ 2 I N. M X, NO SL FRI CTI ON REQUI REMENT	
2303-0033504	HOT M X ASPHALT M XTURE (1, 000, 000	62, 645. 000 TON
2, 112, 243. 30	28. 10 180. 00 33. 72 ESAL), SURFACE COURSE, 1/ 2 I N. M X, FRI CL- 4	
2303-0041500	HOT M X ASPHALT M XTURE (3, 000, 000	30, 625. 240 TON
896, 020. 69	27. 75 47. 82 29. 26 ESAL), BASE COURSE, 1/ 2 I N. M X	
2303-0041750	HOT M X ASPHALT M XTURE (3, 000, 000	14, 547. 000 TON
599, 077. 68	25. 96 85. 00 41. 18 ESAL), BASE COURSE, 3/ 4 I N. M X	
2303-0042500	HOT M X ASPHALT M XTURE (3, 000, 000	148, 065. 880 TON
4, 640, 624. 68	21. 60 72. 00 31. 34 ESAL), I NTERMEDI ATE COURSE, 1/ 2 I N. M X	
2303-0042750	HOT M X ASPHALT M XTURE (3, 000, 000	4, 098. 000 TON
199, 367. 70	48. 65 48. 65 48. 65 ESAL), I NTERMEDI ATE COURSE, 3/ 4 I N. M X	
2303-0043500	HOT M X ASPHALT M XTURE (3, 000, 000	16, 106. 400 TON
715, 592. 82	32. 65 77. 00 44. 43 ESAL), SURFACE COURSE, 1/ 2 I N. M X, NO SL FRI CTI ON REQUI REMENT	
2303-0043502	HOT M X ASPHALT M XTURE (3, 000, 000	69. 700 TON
18, 933. 19	209. 58 706. 76 271. 64 ESAL), SURFACE COURSE, 1/ 2 I N. M X, FRI CL- 2	
2303-0043503	HOT M X ASPHALT M XTURE (3, 000, 000	92, 768. 850 TON
3, 561, 092. 88	26. 63 64. 75 38. 39 ESAL), SURFACE COURSE, 1/ 2 I N. M X, FRI CL- 3	
2303-0043504	HOT M X ASPHALT M XTURE (3, 000, 000	112, 055. 620 TON
3, 466, 535. 04	22. 06 147. 21 30. 94 ESAL), SURFACE COURSE, 1/ 2 I N. M X, FRI CL- 4	
2303-0052500	HOT M X ASPHALT M XTURE (10, 000, 000	20, 941. 500 TON
1, 103, 466. 39	42. 30 138. 16 52. 69 ESAL), I NTERMEDI ATE COURSE, 1/ 2 I N. M X	
2303-0053500	HOT M X ASPHALT M XTURE (10, 000, 000	4, 918. 300 TON
321, 334. 05	58. 75 96. 29 65. 33 ESAL), SURFACE COURSE, 1/ 2 I N. M X, NO SFRI C REQ	

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2303-0053502 620,665.53	HOT M X ASPHALT M XTURE (10,000,000 42.80 77.29 48.78 ESAL), SURFACE COURSE, 1/2 I N. M X, FRI C L-2	12,724.400 TON
2303-0053503 234,441.54	HOT M X ASPHALT M XTURE (10,000,000 50.80 185.46 69.57 ESAL), SURFACE COURSE, 1/2 I N. M X, FRI C L-3	3,370.100 TON
2303-0061500 44,938.86	HOT M X ASPHALT M XTURE (30,000,000 46.97 52.52 48.95 ESAL), BASE COURSE, 1/2 I N. M X	918.000 TON
2303-0061990 89,200.00	HOT M X ASPHALT M XTURE (30,000,000 40.00 40.00 40.00 ESAL), BASE COURSE, 1 I N. M X	2,230.000 TON
2303-0062500 3,162,519.12	HOT M X ASPHALT M XTURE (30,000,000 28.79 71.50 34.95 ESAL), I NTERMEDI ATE COURSE, 1/2 I N. M X	90,496.200 TON
2303-0063502 2,399,173.31	HOT M X ASPHALT M XTURE (30,000,000 31.83 73.70 38.94 ESAL), SURFACE COURSE, 1/2 I N. M X, FRI C L-2	61,612.100 TON
2303-0063503 207,956.88	HOT M X ASPHALT M XTURE (30,000,000 38.63 38.63 38.63 ESAL), SURFACE COURSE, 1/2 I N. M X, FRI C L-3	5,383.300 TON
2303-0063752 60,990.00	HOT M X ASPHALT M XTURE (30,000,000 57.00 57.00 57.00 ESAL), SURFACE COURSE, 3/4 I N. M X, FRI C L-2	1,070.000 TON
2303-0101000 440,481.38	HOT M X ASPHALT M XTURE, WEDGE, LEVELI NG 6.50 45.80 7.95 OR STRENGTHENI NG COURSE	55,422.700 SY
2303-0113500 7,838.92	HOT M X ASPHALT M XTURE (100,000 ESAL), 28.00 75.00 60.82 BASE, I NTERMEDI ATE, OR SURFACE COURSE, 1 /2 I N. M X, NO SPCL FRI C REQ	128.890 SY
2303-0131750 1,580,252.00	HOT M X ASPHALT M XTURE (1,000,000 19.00 77.66 19.99 ESAL), BASE COURSE, 3/4 I N. M X	79,053.000 SY
2303-0133500 65,349.00	HOT M X ASPHALT M XTURE (1,000,000 11.00 90.00 15.61 ESAL), SURFACE COURSE, 1/2 I N. M X, NO SL FRI CTI ON REQUI REMENT	4,187.000 SY
2303-0245000 49,000.00	ASPHALT BI NDER, PG 700.00 700.00 700.00	70.000 TON
2303-0245828 18,421,160.37	ASPHALT BI NDER, PG 58-28 450.00 700.00 512.46	35,946.453 TON
2303-0246422	ASPHALT BI NDER, PG 64-22	32,943.690 TON

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16,829,717.33	430.21	650.00	510.86	
2303-0246428	ASPHALT BI NDER, PG 64-28			10,312.770 TON
5,811,501.92	534.00	667.00	563.52	
2303-0247022	ASPHALT BI NDER, PG 70-22			4,140.140 TON
2,283,937.77	530.00	780.00	551.66	
2303-0247028	ASPHALT BI NDER, PG 70-28			1,665.400 TON
1,016,058.76	600.00	700.00	610.10	
2303-3250000	FABRI C REI NFORCEMENT W TH ADHESI VE			1,546.300 SY
7,978.91	5.16	5.16	5.16	
2303-3250011	FABRI C REI NFORCEMENT			1,030.900 SY
587.61	0.57	0.57	0.57	
2303-3400000	ADJUSTMENT OF FI XTURES			538.000 EACH
320,003.50	100.00	1,600.00	594.80	
2303-6911000	HOT M X ASPHALT PAVEMENT SAMPLES			131.000 LS
363,086.00	1.00	22,000.00	2,771.65	
2303-7000550	I NTELLI GENT COMPACTI ON- HMA			3.000 LS
125,000.00	35,000.00	50,000.00	41,666.67	
2303-9091010	RUMBLE STRI P PANEL (HMA SURFACE)			32.000 EACH
13,775.00	225.00	770.00	430.47	
2303-9091021	M LLED SHOULDER RUMBLE STRI PS, HMA SURFACE			2,073.000 STA
18,657.00	9.00	9.00	9.00	
2303-9093010	HOT M X ASPHALT, DRI VEWAY			1,904.570 SY
99,890.55	23.46	160.00	52.45	
2304-0100000	DETOUR PAVEMENT			128,036.480 SY
5,252,911.33	19.79	75.00	41.03	
2304-0101000	TEMPORARY PAVEMENT			15,764.300 SY
450,972.75	15.00	61.00	28.61	
2306-1000000	ASPHALT EMULSI ON FOR FOG SEAL (PAVEMENT)			937.600 GAL
9,173.68	9.63	100.00	9.78	
2307-0025003	AGGREGATE, ROADWAY COVER, 3/8 I N.			1,893.530 TON
46,053.72	24.00	45.00	24.32	
2307-0025005	AGGREGATE, ROADWAY COVER, 1/2 I N.			3,691.830 TON
95,554.62	25.28	65.00	25.88	
2307-0600000	BI NDER BI TUMEN			16,938.000 GAL
47,595.78	2.81	2.81	2.81	
2307-0600451	BI NDER BI TUMEN, MC-3000			90,222.000 GAL
246,897.66	2.73	3.60	2.74	
2307-0600456	BI NDER BI TUMEN, CRS-2P			38,655.930 GAL
111,709.77	2.70	20.00	2.89	
2307-1400000	ASPHALT EMULSI ON FOR DUST CONTROL			1,864.540 GAL
11,187.24	6.00	6.00	6.00	

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2308-1000000	ASPHALT EMULSION FOR FOG SEAL				146,584.580 GAL
514,878.79	(SHOULDERS)	2.55	140.00	3.51	
2310-5151040	PORTLAND CEMENT CONCRETE OVERLAY,				102,476.970 CY
6,626,491.34	FURNISH ONLY	53.00	150.00	64.66	
2310-5151051	PORTLAND CEMENT CONCRETE OVERLAY,				131,871.940 SY
509,656.68	PLACEMENT ONLY (BONDED)	2.25	130.00	3.86	
2310-5151251	PORTLAND CEMENT CONCRETE OVERLAY,				207,044.140 SY
977,122.69	PLACEMENT ONLY (UNBONDED)	3.43	9.80	4.72	
2310-5151551	PORTLAND CEMENT CONCRETE OVERLAY,				311,747.700 SY
874,878.48	PLACEMENT ONLY (WHI TE TOPPI NG)	2.40	4.45	2.81	
2310-8255550	SURFACE PREPARATI ON				177,547.600 SY
158,594.91		0.18	15.00	0.89	
2310-8300530	HOT M X ASPHALT STRESS RELI EF COURSE				42,745.000 SY
252,580.75		4.35	10.30	5.91	
2310-8300540	HOT M X ASPHALT STRESS RELI EF COURSE				6,349.200 TON
315,018.64		39.00	59.50	49.62	
2312-8260050	GRANULAR SURFACI NG ON ROAD, CLASS A				7.000 CY
324.94	CRUSHED STONE	46.42	46.42	46.42	
2312-8260051	GRANULAR SURFACI NG ON ROAD, CLASS A				60,702.130 TON
924,051.94	CRUSHED STONE	7.95	60.00	15.22	
2312-8260061	GRANULAR SURFACI NG ON ROAD, CLASS B				2,000.000 TON
26,200.00	CRUSHED STONE	13.10	13.10	13.10	
2312-8260081	GRANULAR SURFACI NG ON ROAD, CLASS D				18,183.000 TON
276,825.45	CRUSHED STONE	12.00	21.50	15.22	
2312-8260201	GRANULAR SURFACI NG ON ROAD, CLASS C				1,010.810 TON
17,022.33	GRAVEL	12.00	30.00	16.84	
2312-8260250	GRANULAR SURFACI NG ON ROAD, CRUSHED				3,151.000 TON
70,939.92	STONE	10.80	40.00	22.51	
2314-0775010	CALCI UM CHLORI DE APPLI ED				43.000 TON
19,298.80		300.00	656.00	448.81	
2314-0775015	WATER FOR SURFACE APPLI CATI ON OF CALCI UM				71.300 MGAL
6,986.50	CHLORI DE	55.00	150.00	97.99	
2315-8275025	SURFACI NG, DRI VEWAY, CLASS A CRUSHED				17,762.840 TON
283,624.82	STONE	8.40	197.50	15.97	

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2315-8275030	SURFACI NG,	DRI VEWAY,	CLASS C GRAVEL	836.000 TON
12,655.20	14.00	17.00	15.14	
2315-8275036	SURFACI NG,	DRI VEWAY,	CLASS D CRUSHED	1,923.150 TON
28,366.46	14.75	14.75	14.75	
	STONE			
2315-8275055	SURFACI NG,	DRI VEWAY		3,984.290 TON
79,430.66	5.50	50.00	19.94	
2317-7000110	PAYMENT ADJUSTMENT			523,000.000 EACH
523,000.00	1.00	1.00	1.00	
	I NCENTI VE/ DI SI NCENTI VE FOR PCC PAVEMENT LE)			
2317-7000120	PAYMENT ADJUSTMENT			864,000.000 EACH
864,000.00	1.00	1.00	1.00	
	I NCENTI VE/ DI SI NCENTI VE FOR HMA PAVEMENT LE)			
2318-1001100	COLD I N-PLACE RECYCLED ASPHALT PAVEMENT			1166844.430 SY
1,811,883.55	1.35	1.93	1.55	
2318-1001220	ASPHALT STABI LI ZI NG AGENT (FOAMED			2,840.400 TON
1,723,702.00	580.00	625.00	606.85	
	ASPHALT)			
2318-1001224	ASPHALT STABI LI ZI NG AGENT (STANDARD			399,614.700 GAL
779,975.18	1.75	2.21	1.95	
	ASPHALT EMULSI ON)			
2319-1000000	SLURRY LEVELI NG			32.930 M LE
99,294.70	1,799.00	5,000.00	3,015.33	
2319-2000102	SLURRY WEDGE FI NE AGGREGATE			543.000 TON
52,635.75	50.00	110.25	96.94	
2319-3000102	STRI P SLURRY TREATMENT FI NE AGGREGATE			1,142.300 TON
104,538.10	35.00	101.90	91.52	
2319-3000200	SURFACE PREPARATI ON FOR STRI P SLURRY			144.500 M LE
117,592.50	25.00	5,500.00	813.79	
	TREATMENT			
2319-4000000	ASPHALT EMULSI ON FOR SLURRY LEVELI NG,			78,680.700 GAL
181,842.60	2.00	3.75	2.31	
	SLURRY WEDGE, AND SLURRY TREATMENT			
2319-9990104	AGGREGATE FOR M CROSURFACI NG			1,131.500 TON
56,575.00	50.00	50.00	50.00	
2319-9990105	PREPARATI ON OF SURFACE FOR			8.040 M LE
40,200.00	5,000.00	5,000.00	5,000.00	
	M CROSURFACI NG			
2319-9990106	EMULSI FI ED ASPHALT FOR M CROSURFACI NG			41,745.000 GAL
125,235.00	3.00	3.00	3.00	
2401-6745065	REMOVAL OF BRI DGE END DRAI NS			2.000 EACH
2,000.00	1,000.00	1,000.00	1,000.00	
2401-6745354	REMOVAL OF CONCRETE FOOTI NGS, AS PER			70.000 EACH

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23,690.00	200.00	650.00	338.43		
	PLAN				
2401-6745355	REMOVAL OF CONCRETE FOOTINGS OF HIGHWAY			146.000	EACH
43,012.08	175.00	768.00	294.60		
	SIGNS				
2401-6745356	REMOVAL OF CONCRETE FOOTINGS OF LIGHT			120.000	EACH
47,247.64	130.00	1,500.00	393.73		
	POLES				
2401-6745625	REMOVAL OF EXISTING BRIDGE			123.000	LS
4,468,932.25	1,500.00	770,000.00	36,332.78		
2401-6745635	REMOVAL OF EXISTING HANDRAIL			4.000	LS
18,000.00	2,000.00	7,000.00	4,500.00		
2401-6745636	REMOVAL OF EXISTING HANDRAIL AND END			11.000	LS
43,600.00	2,500.00	8,000.00	3,963.64		
	POSTS				
2401-6745650	REMOVAL OF EXISTING STRUCTURES			62.000	LS
404,465.64	300.00	83,000.00	6,523.64		
2401-6745765	REMOVAL OF LIGHT POLES			179.000	EACH
72,221.70	78.00	884.48	403.47		
2401-6745830	REMOVAL OF P. C. CONCRETE MEDIAN BARRIER			5,458.500	LF
47,951.00	4.00	13.10	8.78		
2401-6745910	REMOVAL OF SIGN			587.000	EACH
65,255.24	25.32	740.00	111.17		
2401-6745915	REMOVAL OF SIGN SUPPORT STRUCTURE AND			4.000	EACH
43,254.00	8,480.00	14,000.00	10,813.50		
	FOOTING				
2401-6750001	REMOVALS, AS PER PLAN			101.000	LS
1,865,739.98	250.00	230,000.00	18,472.67		
2401-7207010	REMOVAL OF CONCRETE			2,579.500	SY
13,522.00	4.95	14.00	5.24		
2401-7207030	REMOVAL OF CONCRETE			3.000	LS
8,267.00	1,675.00	3,592.00	2,755.67		
2402-0425030	GRANULAR BACKFILL			4,512.490	CY
97,711.01	11.75	10,000.00	21.65		
2402-0425031	GRANULAR BACKFILL			86,420.390	TON
999,434.74	4.85	990.00	11.56		
2402-0425032	GRANULAR BACKFILL, PLACE ONLY			880.000	TON
5,612.50	6.25	10.00	6.38		
2402-0425033	GRANULAR BACKFILL, PLACE ONLY			133.600	CY
1,336.00	10.00	10.00	10.00		
2402-0425040	FLOODED BACKFILL			8,412.500	CY
240,281.84	13.40	112.50	28.56		
2402-2720000	EXCAVATION, CLASS 20			136,910.010	CY
1,564,515.79	2.45	250.00	11.43		

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2402-2720100	EXCAVATI ON, CLASS 20, FOR ROADWAY PI PE	23,962.610	CY
197,142.07	1.00 100.00 8.23 CULVERT		
2402-2721000	EXCAVATI ON, CLASS 21	4,927.000	CY
661,005.02	15.00 325.00 134.16		
2402-2722000	EXCAVATI ON, CLASS 22	5,668.070	CY
408,294.65	5.00 1,200.00 72.03		
2402-2723000	EXCAVATI ON, CLASS 23	3,362.980	CY
44,297.30	6.00 120.00 13.17		
2402-2723100	EXCAVATI ON, CLASS 23, FOR ROADWAY PI PE	6,033.550	CY
35,414.75	3.90 6.00 5.87 CULVERT		
2402-2724000	EXCAVATI ON, CLASS 24	1,304.000	CY
4,803.00	3.50 4.00 3.68		
2402-2724100	EXCAVATI ON, CLASS 24, FOR ROADWAY PI PE	5,904.000	CY
26,568.00	4.50 4.50 4.50 CULVERT		
2403-0100000	STRUCTURAL CONCRETE (M SCELLANEOUS)	2,665.180	CY
1,575,325.34	250.00 4,200.00 591.08		
2403-0100010	STRUCTURAL CONCRETE (BRI DGE)	51,696.400	CY
21,436,755.62	261.22 4,500.00 414.67		
2403-0100020	STRUCTURAL CONCRETE (ROB CULVERT)	14,294.144	CY
4,453,475.47	240.00 925.00 311.56		
2403-7000210	HIGH PERFORMANCE STRUCTURAL CONCRETE	4,987.000	CY
2,800,727.50	540.00 775.00 561.61		
2403-7000220	TRIAL BATCH HIGH PERFORMANCE STRUCTURAL CONCRETE	1.000	LS
200.00	200.00 200.00 200.00		
2403-7302000	CLORED SEALER COATI NG FOR STRUCTURAL CONCRETE	3,253.900	SY
65,423.96	12.69 45.00 20.11		
2404-7775000	REI NFORCI NG STEEL	5388221.410	LB
4,035,996.10	0.52 18.00 0.75		
2404-7775005	REI NFORCI NG STEEL, EPOXY COATED	10783150.17	LB
8,207,222.10	0.56 12.02 0.76		
2405-2705000	EXCAVATE AND DEWATER	3.000	LS
256,500.00	1,500.00 245,000.00 85,500.00		
2407-0550000	BEAMS, PRETENS I ONED PRESTRESSED CONCRETE,	98.000	EACH
1,198,500.00	5,000.00 25,000.00 12,229.59		
2407-0550001	BEAMS, PRETENS I ONED PRESTRESSED CONCRETE, ERECT AS PER PLAN	1.000	EACH
1,500.00	1,500.00 1,500.00 1,500.00		
2407-0551142	BEAMS, PRETENS I ONED PRESTRESSED	10.000	EACH

47,687.00	4,768.70	4,768.70	4,768.70	
	CONCRETE, A42			
2407-0551146	BEAMS, PRETENS I ONED PRESTRESSED			8.000 EACH
43,200.00	5,400.00	5,400.00	5,400.00	
	CONCRETE, A46			
2407-0551150	BEAMS, PRETENS I ONED PRESTRESSED			5.000 EACH
28,793.00	5,758.60	5,758.60	5,758.60	
	CONCRETE, A50			
2407-0551155	BEAMS, PRETENS I ONED PRESTRESSED			4.000 EACH
24,000.00	6,000.00	6,000.00	6,000.00	
	CONCRETE, A55			
2407-0551242	BEAMS, PRETENS I ONED PRESTRESSED			7.000 EACH
31,500.00	4,500.00	4,500.00	4,500.00	
	CONCRETE, B42			
2407-0551250	BEAMS, PRETENS I ONED PRESTRESSED			18.000 EACH
106,800.00	5,600.00	6,200.00	5,933.33	
	CONCRETE, B50			
2407-0551255	BEAMS, PRETENS I ONED PRESTRESSED			28.000 EACH
175,310.00	6,131.00	6,500.00	6,261.07	
	CONCRETE, B55			
2407-0551259	BEAMS, PRETENS I ONED PRESTRESSED			27.000 EACH
192,600.00	6,000.00	11,000.00	7,133.33	
	CONCRETE, B59			
2407-0551263	BEAMS, PRETENS I ONED PRESTRESSED			21.000 EACH
160,366.70	7,000.00	8,600.00	7,636.51	
	CONCRETE, B63			
2407-0551267	BEAMS, PRETENS I ONED PRESTRESSED			16.000 EACH
123,400.00	7,000.00	14,000.00	7,712.50	
	CONCRETE, B67			
2407-0551342	BEAMS, PRETENS I ONED PRESTRESSED			6.000 EACH
30,000.00	5,000.00	5,000.00	5,000.00	
	CONCRETE, C42			
2407-0551346	BEAMS, PRETENS I ONED PRESTRESSED			6.000 EACH
45,000.00	7,500.00	7,500.00	7,500.00	
	CONCRETE, C46			
2407-0551355	BEAMS, PRETENS I ONED PRESTRESSED			12.000 EACH
72,000.00	6,000.00	6,000.00	6,000.00	
	CONCRETE, C55			
2407-0551359	BEAMS, PRETENS I ONED PRESTRESSED			12.000 EACH
90,000.00	7,000.00	8,000.00	7,500.00	
	CONCRETE, C59			
2407-0551363	BEAMS, PRETENS I ONED PRESTRESSED			22.000 EACH
161,400.00	6,900.00	8,500.00	7,336.36	
	CONCRETE, C63			
2407-0551367	BEAMS, PRETENS I ONED PRESTRESSED			30.000 EACH
209,780.96	6,548.81	7,500.00	6,992.70	
	CONCRETE, C67			

2407-0551371	BEAMS, PRETENS I ONED PRESTRESSED	24.000	EACH
198,576.00	7,822.00 8,500.00 8,274.00		
	CONCRETE, C71		
2407-0551375	BEAMS, PRETENS I ONED PRESTRESSED	18.000	EACH
168,900.00	8,362.50 12,000.00 9,383.33		
	CONCRETE, C75		
2407-0551380	BEAMS, PRETENS I ONED PRESTRESSED	30.000	EACH
277,000.00	8,500.00 10,500.00 9,233.33		
	CONCRETE, C80		
2407-0551485	BEAMS, PRETENS I ONED PRESTRESSED	4.000	EACH
52,000.00	13,000.00 13,000.00 13,000.00		
	CONCRETE, D85		
2407-0551495	BEAMS, PRETENS I ONED PRESTRESSED	34.000	EACH
409,832.00	11,868.00 12,500.00 12,053.88		
	CONCRETE, D95		
2407-0551510	BEAMS, PRETENS I ONED PRESTRESSED	17.000	EACH
231,196.00	13,433.00 14,000.00 13,599.76		
	CONCRETE, D110		
2407-0562840	BEAMS, PRETENS I ONED PRESTRESSED	28.000	EACH
193,500.00	6,750.00 7,000.00 6,910.71		
	CONCRETE, BTB40		
2407-0562850	BEAMS, PRETENS I ONED PRESTRESSED	5.000	EACH
45,500.00	9,100.00 9,100.00 9,100.00		
	CONCRETE, BTB50		
2407-0562885	BEAMS, PRETENS I ONED PRESTRESSED	10.000	EACH
123,950.00	12,250.00 12,540.00 12,395.00		
	CONCRETE, BTB85		
2407-0562895	BEAMS, PRETENS I ONED PRESTRESSED	28.000	EACH
387,600.00	13,700.00 14,100.00 13,842.86		
	CONCRETE, BTB95		
2407-0562900	BEAMS, PRETENS I ONED PRESTRESSED	5.000	EACH
71,750.00	14,350.00 14,350.00 14,350.00		
	CONCRETE, BTB100		
2407-0563045	BEAMS, PRETENS I ONED PRESTRESSED	2.000	EACH
22,000.00	11,000.00 11,000.00 11,000.00		
	CONCRETE, BTC45		
2407-0563050	BEAMS, PRETENS I ONED PRESTRESSED	5.000	EACH
42,500.00	8,500.00 8,500.00 8,500.00		
	CONCRETE, BTC50		
2407-0563090	BEAMS, PRETENS I ONED PRESTRESSED	21.000	EACH
282,800.00	13,300.00 14,000.00 13,466.67		
	CONCRETE, BTC90		
2407-0563095	BEAMS, PRETENS I ONED PRESTRESSED	6.000	EACH
102,000.00	17,000.00 17,000.00 17,000.00		
	CONCRETE, BTC95		
2407-0563100	BEAMS, PRETENS I ONED PRESTRESSED	16.000	EACH
241,600.00	15,100.00 15,100.00 15,100.00		
	CONCRETE, BTC100		

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2407-0563105	BEAMS, PRETENS I ONED PRESTRESSED 184,000.00 14,000.00 18,000.00 15,333.33 CONCRETE, BTC105	12.000 EACH
2407-0563115	BEAMS, PRETENS I ONED PRESTRESSED 85,000.00 17,000.00 17,000.00 17,000.00 CONCRETE, BTC115	5.000 EACH
2407-0563120	BEAMS, PRETENS I ONED PRESTRESSED 447,400.00 16,000.00 21,000.00 18,641.67 CONCRETE, BTC120	24.000 EACH
2407-0564055	BEAMS, PRETENS I ONED PRESTRESSED 37,500.00 7,500.00 7,500.00 7,500.00 CONCRETE, BTD55	5.000 EACH
2407-0564065	BEAMS, PRETENS I ONED PRESTRESSED 42,500.00 8,500.00 8,500.00 8,500.00 CONCRETE, BTD65	5.000 EACH
2407-0564080	BEAMS, PRETENS I ONED PRESTRESSED 120,000.00 12,000.00 12,000.00 12,000.00 CONCRETE, BTD80	10.000 EACH
2407-0564095	BEAMS, PRETENS I ONED PRESTRESSED 72,500.00 14,500.00 14,500.00 14,500.00 CONCRETE, BTD95	5.000 EACH
2407-0564110	BEAMS, PRETENS I ONED PRESTRESSED 67,384.00 16,846.00 16,846.00 16,846.00 CONCRETE, BTD110	4.000 EACH
2407-0564115	BEAMS, PRETENS I ONED PRESTRESSED 305,000.00 17,000.00 19,000.00 17,941.18 CONCRETE, BTD115	17.000 EACH
2407-0564120	BEAMS, PRETENS I ONED PRESTRESSED 351,600.00 14,600.00 19,200.00 17,580.00 CONCRETE, BTD120	20.000 EACH
2407-0564125	BEAMS, PRETENS I ONED PRESTRESSED 114,000.00 19,000.00 19,000.00 19,000.00 CONCRETE, BTD125	6.000 EACH
2407-0564130	BEAMS, PRETENS I ONED PRESTRESSED 78,000.00 19,500.00 19,500.00 19,500.00 CONCRETE, BTD130	4.000 EACH
2407-0564135	BEAMS, PRETENS I ONED PRESTRESSED 722,174.00 18,423.00 21,645.00 19,518.22 CONCRETE, BTD135	37.000 EACH
2407-0564275	BEAMS, PRETENS I ONED PRESTRESSED 103,500.00 11,500.00 11,500.00 11,500.00 CONCRETE, BTE75	9.000 EACH
2407-0564280	BEAMS, PRETENS I ONED PRESTRESSED 108,000.00 12,000.00 12,000.00 12,000.00 CONCRETE, BTE80	9.000 EACH
2407-0564305	BEAMS, PRETENS I ONED PRESTRESSED 121,500.00 13,500.00 13,500.00 13,500.00	9.000 EACH

CONCRETE, BTE105

2407-0564325	BEAMS, PRETENS I ONED PRESTRESSED	9.000	EACH
171,000.00	19,000.00 19,000.00 19,000.00		
	CONCRETE, BTE125		
2407-0564330	BEAMS, PRETENS I ONED PRESTRESSED	27.000	EACH
513,000.00	19,000.00 19,000.00 19,000.00		
	CONCRETE, BTE130		
2407-0564335	BEAMS, PRETENS I ONED PRESTRESSED	14.000	EACH
307,272.00	21,948.00 21,948.00 21,948.00		
	CONCRETE, BTE135		
2407-0564340	BEAMS, PRETENS I ONED PRESTRESSED	9.000	EACH
189,000.00	21,000.00 21,000.00 21,000.00		
	CONCRETE, BTE140		
2407-0564345	BEAMS, PRETENS I ONED PRESTRESSED	2.000	EACH
53,150.00	26,575.00 26,575.00 26,575.00		
	CONCRETE, BTE145		
2407-0564350	BEAMS, PRETENS I ONED PRESTRESSED	40.000	EACH
1,012,000.00	25,000.00 28,000.00 25,300.00		
	CONCRETE, BTE150		
2407-0564355	BEAMS, PRETENS I ONED PRESTRESSED	15.000	EACH
434,250.00	28,000.00 30,000.00 28,950.00		
	CONCRETE, BTE155		
2407-0580146	BEAMS, PRETENS I ONED PRESTRESSED	6.000	EACH
32,640.00	5,440.00 5,440.00 5,440.00		
	CONCRETE, LXA46		
2407-0580150	BEAMS, PRETENS I ONED PRESTRESSED	12.000	EACH
68,340.00	5,695.00 5,695.00 5,695.00		
	CONCRETE, LXA50		
2407-0580267	BEAMS, PRETENS I ONED PRESTRESSED	9.000	EACH
68,300.00	7,100.00 8,200.00 7,588.89		
	CONCRETE, LXB67		
2407-0580380	BEAMS, PRETENS I ONED PRESTRESSED	12.000	EACH
144,000.00	12,000.00 12,000.00 12,000.00		
	CONCRETE, LXC80		
2407-0580490	BEAMS, PRETENS I ONED PRESTRESSED	2.000	EACH
20,000.00	10,000.00 10,000.00 10,000.00		
	CONCRETE, LXD90		
2407-0580500	BEAMS, PRETENS I ONED PRESTRESSED	2.000	EACH
24,000.00	12,000.00 12,000.00 12,000.00		
	CONCRETE, LXD100		
2408-6772011	REPAI R BEAM HEAT STRAI GHTENI NG AS PER	1.000	LS
37,950.00	37,950.00 37,950.00 37,950.00		
	PLAN		
2408-7700000	STRUCTURAL STEEL, HAULI NG AND STORI NG	2.000	LS
6,500.00	1,500.00 5,000.00 3,250.00		
2408-7800000	STRUCTURAL STEEL	3541922.300	LB
8,548,386.69	1.00 69.50 2.41		

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2408-7900020	SLOTTED DECK DRAIN				1.000	LS
52,000.00	52,000.00	52,000.00	52,000.00			
2408-8500100	REINFORCED NEOPRENE				1,154.000	SF
69,240.00	60.00	60.00	60.00			
2409-4200001	MISCELLANEOUS HARDWARE				713.000	LB
6,111.00	7.00	9.50	8.57			
2409-4575000	TREATED LUMBER				0.590	MFBM
4,012.00	6,800.00	6,800.00	6,800.00			
2409-4575001	TREATED TIMBER AND LUMBER				4.077	MFBM
12,231.00	3,000.00	3,000.00	3,000.00			
2409-4600001	UNTREATED TIMBER AND LUMBER				4.036	MFBM
32,086.20	7,950.00	7,950.00	7,950.00			
2412-0000100	LONGITUDINAL GROOVING IN CONCRETE				83,219.000	SY
249,564.65	1.40	35.00	3.00			
2413-0698041	DECK OVER-DEPTH OVERLAY (CLASS O PCC)				2,365.000	SY
164,860.00	58.00	200.00	69.71			
2413-0698066	DECK OVERLAY (CLASS O PCC)				17,160.060	SY
853,701.70	38.00	135.00	49.75			
2413-0698067	DECK OVERLAY (CLASS HPC-O PCC)				8,179.100	SY
415,341.40	44.00	60.00	50.78			
2413-0698074	DECK REPAIR, CLASS A				4,927.640	SY
741,392.90	60.00	380.00	150.46			
2413-0698075	DECK REPAIR, CLASS B				187.000	SY
67,425.00	225.00	900.00	360.56			
2413-0698081	DECK REPAIR, CLASS A, SPECIAL				237.000	SY
31,680.00	120.00	165.00	133.67			
2413-1100000	PREFORMED ELASTIC NEOPRENE JOINT				155.200	LF
8,487.00	45.00	90.00	54.68			
2413-1200000	STEEL EXTRUSION JOINT WITH NEOPRENE				2,369.567	LF
406,324.08	95.00	550.00	171.48			
2413-1200100	NEOPRENE GLAND INSTALLATION AND TESTING				2,283.767	LF
77,606.74	20.54	100.00	33.98			
2414-6424038	CONCRETE BARRIER RAIL, 3' - 8"				8,381.720	LF
707,356.55	41.00	110.00	84.39			
2414-6424110	CONCRETE BARRIER RAILING				20,572.190	LF
931,286.53	28.00	96.00	45.27			
2414-6424111	CONCRETE BARRIER RAILING, MEDIUM				2,328.000	LF
144,800.00	45.00	71.00	62.20			
2414-6424119	CONCRETE BARRIER RAILING, AESTHETIC				4,455.870	LF
372,097.66	56.00	145.00	83.51			
2414-6424120	CONCRETE OPEN RAILING				6,869.600	LF
383,274.20	40.00	98.00	55.79			

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2414-6424124	CONCRETE	OPEN RAI LI NG	TL- 4		12, 421. 180	LF
656, 903. 53	39. 70	65. 00	52. 89			
2414-6425410	CONCRETE	BARRI ER,	REI NFORCED,	SEPARATI ON	646. 060	LF
51, 897. 00	57. 00	111. 02	80. 33			
2414-6425420	CONCRETE	BARRI ER,	PARAPET		1, 000. 600	LF
67, 219. 60	54. 00	86. 00	67. 18			
2414-6431100	RETROFI T	CONCRETE	BARRI ER	RAI LI NG	4, 415. 300	LF
245, 661. 60	47. 00	71. 00	55. 64			
2414-6444100	STEEL PI PE	PEDESTRI AN	HAND RAI LI NG		2, 541. 020	LF
144, 768. 95	31. 00	193. 42	56. 97			
2414-6445100	STRUCTURAL	STEEL	PEDESTRI AN	HAND RAI LI NG	4, 072. 840	LF
570, 722. 81	109. 00	170. 00	140. 13			
2414-6446100	ALUM NUM	PEDESTRI AN	HAND RAI LI NG		371. 300	LF
66, 834. 00	180. 00	180. 00	180. 00			
2414-6460000	ORNAMENTAL	METAL	RAI LI NG		4, 269. 670	LF
686, 074. 71	44. 75	250. 00	160. 69			
2414-7200010	SAFETY GRATE,	TYPE 1,	CULVERT		3. 000	EACH
8, 603. 00	1, 551. 00	3, 526. 00	2, 867. 67			
2414-7200020	SAFETY GRATE,	TYPE 2,	CULVERT		5. 000	EACH
19, 000. 00	3, 800. 00	3, 800. 00	3, 800. 00			
2414-7200030	SAFETY GRATE,	TYPE 3,	CULVERT		5. 000	EACH
52, 820. 00	10, 564. 00	10, 564. 00	10, 564. 00			
2414-7200040	SAFETY GRATE,	TYPE 4,	CULVERT		1. 000	EACH
26, 520. 00	26, 520. 00	26, 520. 00	26, 520. 00			
2415-2100000	PRECAST	CONCRETE	BOX CULVERT,		76. 000	LF
31, 540. 00	415. 00	415. 00	415. 00			
2415-2110404	PRECAST	CONCRETE	BOX CULVERT,	4 FT. X 4	24. 000	LF
14, 400. 00	600. 00	600. 00	600. 00			
				FT.		
2415-2110604	PRECAST	CONCRETE	BOX CULVERT,	6 FT. X 4	20. 000	LF
4, 800. 00	240. 00	240. 00	240. 00			
				FT.		
2415-2110805	PRECAST	CONCRETE	BOX CULVERT,	8 FT. X 5	20. 000	LF
6, 800. 00	340. 00	340. 00	340. 00			
				FT.		
2415-2110806	PRECAST	CONCRETE	BOX CULVERT,	8 FT. X 6	3, 381. 000	LF
1, 157, 376. 00	338. 56	420. 00	342. 32			
				FT.		
2415-2111006	PRECAST	CONCRETE	BOX CULVERT,	10 FT. X 6	56. 000	LF
25, 200. 00	450. 00	450. 00	450. 00			
				FT.		
2415-2111007	PRECAST	CONCRETE	BOX CULVERT,	10 FT. X 7	36. 000	LF
34, 560. 00	960. 00	960. 00	960. 00			
				FT.		

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2415-2111010	PRECAST CONCRETE BOX CULVERT, 10 FT. X 10 FT.	562.00	759.88	599.31	560.000 LF
335,614.38					
2415-2111206	PRECAST CONCRETE BOX CULVERT, 12 FT. X 6 FT.	470.00	470.00	470.00	66.000 LF
31,020.00					
2415-2111208	PRECAST CONCRETE BOX CULVERT, 12 FT. X 8 FT.	1,330.00	1,330.00	1,330.00	12.000 LF
15,960.00					
2415-2111210	PRECAST CONCRETE BOX CULVERT, 12 FT. X 10 FT.	1,000.00	1,000.00	1,000.00	32.000 LF
32,000.00					
2415-2111212	PRECAST CONCRETE BOX CULVERT, 12 FT. X 12 FT.	537.25	537.25	537.25	96.000 LF
51,576.00					
2415-2200000	PRECAST CONCRETE BOX CULVERT STRAI GHT END SECTI ON,	5,847.00	5,847.00	5,847.00	2.000 EACH
11,694.00					
2415-2200404	PRECAST CONCRETE BOX CULVERT STRAI GHT END SECTI ON, 4 FT. X 4 FT.	2,500.00	2,500.00	2,500.00	2.000 EACH
5,000.00					
2415-2200604	PRECAST CONCRETE BOX CULVERT STRAI GHT END SECTI ON, 6 FT. X 4 FT.	3,800.00	3,800.00	3,800.00	2.000 EACH
7,600.00					
2415-2200805	PRECAST CONCRETE BOX CULVERT STRAI GHT END SECTI ON, 8 FT. X 5 FT.	5,400.00	5,400.00	5,400.00	2.000 EACH
10,800.00					
2415-2200806	PRECAST CONCRETE BOX CULVERT STRAI GHT END SECTI ON, 8 FT. X 6 FT.	7,000.00	7,000.00	7,000.00	4.000 EACH
28,000.00					
2415-2201006	PRECAST CONCRETE BOX CULVERT STRAI GHT END SECTI ON, 10 FT. X 6 FT.	7,500.00	7,500.00	7,500.00	2.000 EACH
15,000.00					
2415-2201007	PRECAST CONCRETE BOX CULVERT STRAI GHT END SECTI ON, 10 FT. X 7 FT.	8,000.00	8,000.00	8,000.00	2.000 EACH
16,000.00					
2415-2201010	PRECAST CONCRETE BOX CULVERT STRAI GHT END SECTI ON, 10 FT. X 10 FT.	4,000.00	16,271.00	12,475.99	12.000 EACH
149,711.88					
2415-2201206	PRECAST CONCRETE BOX CULVERT STRAI GHT END SECTI ON, 12 FT. X 6 FT.	10,000.00	10,000.00	10,000.00	2.000 EACH
20,000.00					
2415-2201210	PRECAST CONCRETE BOX CULVERT STRAI GHT END SECTI ON, 12 FT. X 10 FT.	8,000.00	8,000.00	8,000.00	2.000 EACH
16,000.00					
2415-2201212	PRECAST CONCRETE BOX CULVERT STRAI GHT	13,655.00	13,655.00	13,655.00	2.000 EACH
27,310.00					

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END SECTI ON, 12 FT. X 12 FT.

2416-0100012	APRONS, CONCRETE,	12 I N. DI A.	18.000 EACH
12,125.20	450.00 1,452.20	673.62	
2416-0100015	APRONS, CONCRETE,	15 I N. DI A.	81.000 EACH
52,086.00	250.00 1,350.00	643.04	
2416-0100018	APRONS, CONCRETE,	18 I N. DI A.	151.000 EACH
99,504.20	265.00 1,550.00	658.97	
2416-0100021	APRONS, CONCRETE,	21 I N. DI A.	1.000 EACH
659.70	659.70 659.70	659.70	
2416-0100024	APRONS, CONCRETE,	24 I N. DI A.	138.000 EACH
121,897.45	267.75 2,325.00	883.31	
2416-0100027	APRONS, CONCRETE,	27 I N. DI A.	2.000 EACH
1,035.05	341.25 693.80	517.53	
2416-0100030	APRONS, CONCRETE,	30 I N. DI A.	94.000 EACH
83,363.90	500.00 2,500.00	886.85	
2416-0100036	APRONS, CONCRETE,	36 I N. DI A.	35.000 EACH
38,650.30	700.00 2,300.00	1,104.29	
2416-0100042	APRONS, CONCRETE,	42 I N. DI A.	36.000 EACH
59,415.80	1,060.00 3,100.00	1,650.44	
2416-0100048	APRONS, CONCRETE,	48 I N. DI A.	36.000 EACH
66,688.08	821.54 4,570.00	1,852.45	
2416-0100054	APRONS, CONCRETE,	54 I N. DI A.	8.000 EACH
16,728.00	1,680.00 3,925.70	2,091.00	
2416-0100060	APRONS, CONCRETE,	60 I N. DI A.	22.000 EACH
54,912.00	1,500.00 4,870.00	2,496.00	
2416-0100066	APRONS, CONCRETE,	66 I N. DI A.	3.000 EACH
6,926.00	2,300.00 2,313.00	2,308.67	
2416-0100072	APRONS, CONCRETE,	72 I N. DI A.	13.000 EACH
33,484.00	1,680.00 4,835.00	2,575.69	
2416-0101036	REMOVE AND REI NSTALL CONCRETE PI PE	78.000 EACH	
42,875.00	310.00 2,000.00	549.68	
	APRONS LESS THAN OR EQUAL TO 36 I N.		
2416-0101136	REMOVE AND REI NSTALL CONCRETE PI PE	17.000 EACH	
12,530.00	450.00 1,870.00	737.06	
	APRONS GREATER THAN 36 I N.		
2416-0102022	APRONS, CONCRETE ARCH,	22 I N. X 14 I N.	2.000 EACH
2,400.00	1,200.00 1,200.00	1,200.00	
2416-0102029	APRONS, CONCRETE ARCH,	29 I N. X 18 I N.	3.000 EACH
1,725.00	400.00 925.00	575.00	
2416-0102037	APRONS, CONCRETE ARCH,	37 I N. X 23 I N.	5.000 EACH
7,625.00	700.00 2,075.00	1,525.00	
2416-0102044	APRONS, CONCRETE ARCH,	44 I N. X 27 I N.	6.000 EACH
7,838.40	1,306.40 1,306.40	1,306.40	

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2416-0102052	APRONS,	CONCRETE ARCH,	52 I N.	X 32 I N.	2.000 EACH
1,400.00	700.00	700.00	700.00		
2416-0102059	APRONS,	CONCRETE ARCH,	59 I N.	X 36 I N.	3.000 EACH
6,499.20	1,824.60	2,850.00	2,166.40		
2416-0102065	APRONS,	CONCRETE ARCH,	65 I N.	X 40 I N.	4.000 EACH
7,618.00	1,755.00	2,054.00	1,904.50		
2416-0102073	APRONS,	CONCRETE ARCH,	73 I N.	X 45 I N.	1.000 EACH
2,075.40	2,075.40	2,075.40	2,075.40		
2416-0102088	APRONS,	CONCRETE ARCH,	88 I N.	X 54 I N.	2.000 EACH
7,980.00	3,990.00	3,990.00	3,990.00		
2416-0102102	APRONS,	CONCRETE ARCH,	102 I N.	X 62 I N.	1.000 EACH
4,729.00	4,729.00	4,729.00	4,729.00		
2416-1160015	CULVERT,	CONCRETE ENTRANCE PI PE,	15 I N.		201.000 LF
11,524.80	35.50 DI A.	76.00	57.34		
2416-1160018	CULVERT,	CONCRETE ENTRANCE PI PE,	18 I N.		1,940.000 LF
71,956.00	33.00 DI A.	77.50	37.09		
2416-1160024	CULVERT,	CONCRETE ENTRANCE PI PE,	24 I N.		290.000 LF
12,754.00	42.00 DI A.	50.00	43.98		
2416-1160030	CULVERT,	CONCRETE ENTRANCE PI PE,	30 I N.		4.000 LF
1,025.00	256.25 DI A.	256.25	256.25		
2416-1160042	CULVERT,	CONCRETE ENTRANCE PI PE,	42 I N.		52.000 LF
6,396.00	95.00 DI A.	186.00	123.00		
2416-1160048	CULVERT,	CONCRETE ENTRANCE PI PE,	48 I N.		20.000 LF
3,940.00	197.00 DI A.	197.00	197.00		
2416-1165015	CULVERT,	2000D CONCRETE ENTRANCE PI PE,			455.000 LF
11,488.75	25.25 15 I N. DI A.	25.25	25.25		
2416-1165048	CULVERT,	2000D CONCRETE ENTRANCE PI PE,			168.000 LF
15,960.00	95.00 48 I N. DI A.	95.00	95.00		
2416-1180018	CULVERT,	CONCRETE ROADWAY PI PE,	18 I N.		436.000 LF
27,628.20	37.00 DI A.	75.00	63.37		
2416-1180024	CULVERT,	CONCRETE ROADWAY PI PE,	24 I N.		2,733.000 LF
150,803.65	18.25 DI A.	250.00	55.18		
2416-1180030	CULVERT,	CONCRETE ROADWAY PI PE,	30 I N.		1,152.000 LF
103,225.04	48.09 DI A.	315.00	89.61		

2416-1180036 48,664.90	CULVERT, 66.75 DI A.	CONCRETE 300.00	ROADWAY PI PE, 112.13	36 I N.	434.000 LF
2416-1180042 55,811.40	CULVERT, 95.00 DI A.	CONCRETE 183.00	ROADWAY PI PE, 125.99	42 I N.	443.000 LF
2416-1180048 76,915.20	CULVERT, 85.50 DI A.	CONCRETE 305.00	ROADWAY PI PE, 126.71	48 I N.	607.000 LF
2416-1180054 19,683.50	CULVERT, 133.35 DI A.	CONCRETE 212.00	ROADWAY PI PE, 164.03	54 I N.	120.000 LF
2416-1180060 130,820.00	CULVERT, 142.00 DI A.	CONCRETE 563.00	ROADWAY PI PE, 218.03	60 I N.	600.000 LF
2416-1180066 4,864.00	CULVERT, 304.00 DI A.	CONCRETE 304.00	ROADWAY PI PE, 304.00	66 I N.	16.000 LF
2416-1180072 53,266.00	CULVERT, 120.00 DI A.	CONCRETE 475.00	ROADWAY PI PE, 294.29	72 I N.	181.000 LF
2416-1190037 5,940.00	CULVERT, 90.00 I N. X 23 I N.	CONCRETE 90.00	ARCH ENTRANCE PI PE, 90.00	37	66.000 LF
2416-1190065 2,928.00	CULVERT, 244.00 I N. X 40 I N.	CONCRETE 244.00	ARCH ENTRANCE PI PE, 244.00	65	12.000 LF
2416-1190102 6,984.00	CULVERT, 582.00 102 I N. X 62 I N.	CONCRETE 582.00	ARCH ENTRANCE PI PE, 582.00		12.000 LF
2416-1200044 18,072.80	CULVERT, 155.80 I N. X 27 I N.	CONCRETE 155.80	ARCH ROADWAY PI PE, 155.80	44	116.000 LF
2416-1200052 11,180.00	CULVERT, 130.00 I N. X 32 I N.	CONCRETE 130.00	ARCH ROADWAY PI PE, 130.00	52	86.000 LF
2416-1200059 13,234.40	CULVERT, 190.45 I N. X 36 I N.	CONCRETE 595.00	ARCH ROADWAY PI PE, 300.78	59	44.000 LF
2416-1200065 7,200.00	CULVERT, 180.00 I N. X 40 I N.	CONCRETE 180.00	ARCH ROADWAY PI PE, 180.00	65	40.000 LF
2416-1200073 3,192.60	CULVERT, 266.05 I N. X 45 I N.	CONCRETE 266.05	ARCH ROADWAY PI PE, 266.05	73	12.000 LF
2416-1200088 33,062.40	CULVERT, 344.40 I N. X 54 I N.	CONCRETE 344.40	ARCH ROADWAY PI PE, 344.40	88	96.000 LF

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2416-1240042	CULVERT, 3000D CONCRETE ROADWAY PI PE, 42	120.000	LF
11,040.00	92.00 92.00 92.00 I N. DI A.		
2416-1240054	CULVERT, 3000D CONCRETE ROADWAY PI PE, 54	74.000	LF
11,840.00	160.00 160.00 160.00 I N. DI A.		
2416-1245036	CULVERT, 3750D CONCRETE ROADWAY PI PE, 36	26.000	LF
5,393.70	207.45 207.45 207.45 I N. DI A.		
2416-1262018	CULVERT, CONCRETE PI PE, 2000D, TRENCHLESS, 18 I N. DI A.	104.000	LF
24,960.00	240.00 240.00 240.00		
2416-1262024	CULVERT, CONCRETE PI PE, 2000D, TRENCHLESS, 24 I N. DI A.	130.000	LF
49,400.00	380.00 380.00 380.00		
2416-1262036	CULVERT, CONCRETE PI PE, 2000D, TRENCHLESS, 36 I N. DI A.	42.000	LF
22,050.00	525.00 525.00 525.00		
2416-1264018	CULVERT, CONCRETE PI PE, 3750D, TRENCHLESS, 18 I N. DI A.	188.000	LF
62,040.00	330.00 330.00 330.00		
2416-1541036	REMOVE AND REI NSTALL RI GI D PI PE CULVERT LESS THAN OR EQUAL TO 36 I N.	252.000	LF
24,114.00	15.00 130.00 95.69		
2416-1541136	REMOVE AND REI NSTALL RI GI D PI PE CULVERT GREATER THAN 36 I N.	54.000	LF
7,200.00	80.00 200.00 133.33		
2417-0225012	APRONS, METAL, 12 I N. DI A.	15.000	EACH
2,673.60	151.20 211.50 178.24		
2417-0225015	APRONS, METAL, 15 I N. DI A.	44.000	EACH
8,186.70	125.00 240.00 186.06		
2417-0225018	APRONS, METAL, 18 I N. DI A.	158.000	EACH
31,278.00	82.00 275.00 197.96		
2417-0225024	APRONS, METAL, 24 I N. DI A.	96.000	EACH
26,783.99	106.00 674.00 279.00		
2417-0225030	APRONS, METAL, 30 I N. DI A.	11.000	EACH
5,158.10	350.00 521.35 468.92		
2417-0225036	APRONS, METAL, 36 I N. DI A.	14.000	EACH
6,198.00	340.00 575.00 442.71		
2417-0225042	APRONS, METAL, 42 I N. DI A.	9.000	EACH
7,386.20	570.00 1,100.00 820.69		
2417-0225048	APRONS, METAL, 48 I N. DI A.	7.000	EACH
6,460.00	670.00 1,400.00 922.86		
2417-0225054	APRONS, METAL, 54 I N. DI A.	4.000	EACH
3,357.45	750.00 1,107.45 839.36		

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2417-0225060	APRONS, METAL, 60 I N. DI A.	1,000.00	1,000.00	1,000.00	1,000.00	1.000	EACH
2417-0225066	APRONS, METAL, 66 I N. DI A.	6,256.65	1,175.00	1,556.65	1,251.33	5.000	EACH
2417-0225072	APRONS, METAL, 72 I N. DI A.	7,000.00	1,750.00	1,750.00	1,750.00	4.000	EACH
2417-0225084	APRONS, METAL, 84 I N. DI A.	2,650.00	2,650.00	2,650.00	2,650.00	1.000	EACH
2417-0250035	APRONS, METAL, ARCH, 35 I N. X 24 I N.	1,900.00	475.00	475.00	475.00	4.000	EACH
2417-0250042	APRONS, METAL, ARCH, 42 I N. X 29 I N.	2,029.60	1,014.80	1,014.80	1,014.80	2.000	EACH
2417-0330018	APRONS, SAFETY SLOPE, 18 I N. DI A.	1,675.00	380.00	535.00	418.75	4.000	EACH
2417-0330024	APRONS, SAFETY SLOPE, 24 I N. DI A.	11,125.00	400.00	1,000.00	556.25	20.000	EACH
2417-0330030	APRONS, SAFETY SLOPE, 30 I N. DI A.	2,700.00	1,350.00	1,350.00	1,350.00	2.000	EACH
2417-0330036	APRONS, SAFETY SLOPE, 36 I N. DI A.	9,600.00	2,400.00	2,400.00	2,400.00	4.000	EACH
2417-0330060	APRONS, SAFETY SLOPE, 60 I N. DI A.	22,000.00	5,500.00	5,500.00	5,500.00	4.000	EACH
2417-0341036	REMOVE AND REINSTALL METAL APRONS LESS THAN OR EQUAL TO 36 I N.	690.00	690.00	690.00	690.00	1.000	EACH
2417-1007000	CORRUGATED PIPE CULVERT,	3,307.50	18.90	18.90	18.90	175.000	LF
2417-1040015	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 15 I N. DI A.	202,015.26	12.25	34.00	23.25	8,689.000	LF
2417-1040018	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 18 I N. DI A.	152,287.23	14.58	106.50	21.99	6,924.900	LF
2417-1040024	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 24 I N. DI A.	82,420.95	18.00	75.00	27.20	3,030.500	LF
2417-1040030	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 30 I N. DI A.	21,380.85	40.00	126.50	45.30	472.000	LF
2417-1040036	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 36 I N. DI A.	43,094.29	32.01	60.00	46.44	928.000	LF
2417-1040042	CULVERT, CORRUGATED METAL ENTRANCE PIPE,	2,340.00	45.00	45.00	45.00	52.000	LF

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	42 I N. DI A.		
2417-1040048	CULVERT, CORRUGATED METAL ENTRANCE PI PE, 6,450.00 50.00 51.25 50.39 48 I N. DI A.	128.000 LF	
2417-1040060	CULVERT, CORRUGATED METAL ENTRANCE PI PE, 8,265.00 71.25 71.25 71.25 60 I N. DI A.	116.000 LF	
2417-1040072	CULVERT, CORRUGATED METAL ENTRANCE PI PE, 30,184.20 77.85 145.00 91.61 72 I N. DI A.	329.500 LF	
2417-1040084	CULVERT, CORRUGATED METAL ENTRANCE PI PE, 2,800.00 175.00 175.00 175.00 84 I N. DI A.	16.000 LF	
2417-1060018	CULVERT, CORRUGATED METAL ROADWAY PI PE, 10,576.80 18.50 46.60 20.58 18 I N. DI A.	514.000 LF	
2417-1060024	CULVERT, CORRUGATED METAL ROADWAY PI PE, 48,370.50 21.00 102.00 34.80 24 I N. DI A.	1,390.000 LF	
2417-1060030	CULVERT, CORRUGATED METAL ROADWAY PI PE, 17,456.60 45.00 50.45 47.18 30 I N. DI A.	370.000 LF	
2417-1060036	CULVERT, CORRUGATED METAL ROADWAY PI PE, 36,363.20 42.00 73.30 57.63 36 I N. DI A.	631.000 LF	
2417-1060042	CULVERT, CORRUGATED METAL ROADWAY PI PE, 54,721.80 47.00 105.00 71.35 42 I N. DI A.	767.000 LF	
2417-1060048	CULVERT, CORRUGATED METAL ROADWAY PI PE, 25,462.00 67.00 87.00 73.59 48 I N. DI A.	346.000 LF	
2417-1060054	CULVERT, CORRUGATED METAL ROADWAY PI PE, 23,888.70 74.00 100.25 78.38 54 I N. DI A.	304.800 LF	
2417-1060060	CULVERT, CORRUGATED METAL ROADWAY PI PE, 18,138.28 85.00 183.19 98.58 60 I N. DI A.	184.000 LF	
2417-1060066	CULVERT, CORRUGATED METAL ROADWAY PI PE, 9,491.93 54.00 125.45 61.08 66 I N. DI A.	155.400 LF	
2417-1060072	CULVERT, CORRUGATED METAL ROADWAY PI PE, 10,992.00 91.60 91.60 91.60 72 I N. DI A.	120.000 LF	
2417-1080035	CULVERT, CORRUGATED METAL ARCH ENTRANCE 3,999.00 64.50 64.50 64.50 PIPE, 35 I N. X 24 I N.	62.000 LF	
2417-1100042	CULVERT, CORRUGATED METAL ARCH ROADWAY	184.000 LF	

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12,692.80	60.35	78.40	68.98	
	PI PE, 42 I N. X 29 I N.			
2417-1130015	CULVERT, CORRUGATED POLYETHYLENE			18.000 LF
972.00	54.00	54.00	54.00	
	ENTRANCE PI PE, 15 I N.			
2417-1140024	CULVERT, CORRUGATED POLYETHYLENE ROADWAY			52.000 LF
3,432.00	66.00	66.00	66.00	
	PI PE, 24 I N.			
2417-1461036	REMOVE AND REINSTALL CORRUGATED PI PE			313.000 LF
4,665.00	12.00	17.00	14.90	
	CULVERT LESS THAN OR EQUAL TO 36 I N.			
2417-2307030	DRAIN, CORRUGATED METAL SLOTTED PI PE, 30			504.000 LF
52,241.50	62.50	180.00	103.65	
	I N., W 6 I N. GRATE			
2417-2307036	DRAIN, CORRUGATED METAL SLOTTED PI PE, 36			364.000 LF
33,124.00	91.00	91.00	91.00	
	I N., W 6 I N. GRATE			
2417-3550024	SLOTTED FLUME, CORRUGATED METAL, 24 I N.			72.000 LF
2,736.00	38.00	38.00	38.00	
2417-5895015	BEVELED PI PE AND GUARD, 15 I NCH			46.000 EACH
54,714.00	650.00	1,650.00	1,189.43	
2418-1220000	PI PE INSTALLED BY TRENCHLESS			132.000 LF
47,520.00	360.00	360.00	360.00	
	CONSTRUCTION,			
2420-1280096	CULVERT, STRUCTURAL PLATE ROADWAY PI PE,			84.000 LF
31,080.00	370.00	370.00	370.00	
	96 I N. DI A.			
2420-1280108	CULVERT, STRUCTURAL PLATE ROADWAY PI PE,			88.000 LF
35,200.00	400.00	400.00	400.00	
	108 I N. DI A.			
2420-1280120	CULVERT, STRUCTURAL PLATE ROADWAY PI PE,			104.000 LF
42,640.00	410.00	410.00	410.00	
	120 I N. DI A.			
2420-1300117	CULVERT, STRUCTURAL PLATE PI PE ARCH, 117			107.000 LF
56,175.00	525.00	525.00	525.00	
	I N. X 79 I N.			
2422-0360015	APRONS, UNCLASSIFIED, 15 I N. DI A.			14.000 EACH
3,363.00	150.00	650.00	240.21	
2422-0360018	APRONS, UNCLASSIFIED, 18 I N. DI A.			69.000 EACH
26,849.00	140.00	649.00	389.12	
2422-0360021	APRONS, UNCLASSIFIED, 21 I N. DI A.			2.000 EACH
440.00	220.00	220.00	220.00	
2422-0360024	APRONS, UNCLASSIFIED, 24 I N. DI A.			70.000 EACH
41,913.50	160.00	674.00	598.76	
2422-0360030	APRONS, UNCLASSIFIED, 30 I N. DI A.			9.000 EACH
4,640.00	220.00	1,000.00	515.56	

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2422-0360036	APRONS,	UNCLASSI FI ED,	36 I N. DI A.	6.000 EACH
3,370.00	350.00	813.00	561.67	
2422-1722015	CULVERT,	UNCLASSI FI ED	ENTRANCE PI PE, 15	1,947.000 LF
39,679.60	12.20 I N. DI A.	26.00	20.38	
2422-1722018	CULVERT,	UNCLASSI FI ED	ENTRANCE PI PE, 18	2,631.000 LF
72,565.00	18.95 I N. DI A.	40.00	27.58	
2422-1722021	CULVERT,	UNCLASSI FI ED	ENTRANCE PI PE, 21	12.000 LF
354.60	29.55 I N. DI A.	29.55	29.55	
2422-1722024	CULVERT,	UNCLASSI FI ED	ENTRANCE PI PE, 24	5,117.000 LF
142,284.10	17.25 I N. DI A.	51.00	27.81	
2422-1722030	CULVERT,	UNCLASSI FI ED	ENTRANCE PI PE, 30	1,572.000 LF
46,573.60	27.40 I N. DI A.	49.00	29.63	
2422-1722036	CULVERT,	UNCLASSI FI ED	ENTRANCE PI PE, 36	811.000 LF
28,874.00	34.00 I N. DI A.	44.50	35.60	
2422-1722042	CULVERT,	UNCLASSI FI ED	ENTRANCE PI PE, 42	374.000 LF
14,964.30	39.45 I N. DI A.	42.45	40.01	
2422-1722048	CULVERT,	UNCLASSI FI ED	ENTRANCE PI PE, 48	381.000 LF
19,277.30	48.80 I N. DI A.	52.50	50.60	
2422-1722054	CULVERT,	UNCLASSI FI ED	ENTRANCE PI PE, 54	153.000 LF
16,193.85	100.45 I N. DI A.	125.45	105.84	
2422-1723024	CULVERT,	UNCLASSI FI ED	ROADWAY PI PE, 24	284.000 LF
14,111.12	35.04 I N. DI A.	70.90	49.69	
2422-1723030	CULVERT,	UNCLASSI FI ED	ROADWAY PI PE, 30	232.000 LF
10,390.40	30.00 I N. DI A.	69.20	44.79	
2422-1723036	CULVERT,	UNCLASSI FI ED	ROADWAY PI PE, 36	238.000 LF
13,535.20	40.00 I N. DI A.	74.40	56.87	
2422-1723048	CULVERT,	UNCLASSI FI ED	ROADWAY PI PE, 48	67.000 LF
5,092.00	76.00 I N. DI A.	76.00	76.00	
2422-1723054	CULVERT,	UNCLASSI FI ED	ROADWAY PI PE, 54	10.000 LF
1,250.00	125.00 I N. DI A.	125.00	125.00	
2423-1010700	OVERHEAD SI GN SUPPORT STRUCTURE,			1.000 EACH
38,500.00	38,500.00	38,500.00	38,500.00	
	ALUM NUM SUPERSTRUCTURE, 70 FT. SPAN			

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2423-1050330	OVERHEAD SI GN SUPPORT STRUCTURE, 300,000.00 22,500.00 27,750.00 27,272.73 CANTI LEVERED, 33 FT. ARM	11.000 EACH
2423-1050350	OVERHEAD SI GN SUPPORT STRUCTURE, 22,600.00 22,600.00 22,600.00 22,600.00 CANTI LEVERED, 35 FT. ARM	1.000 EACH
2424-6772250	SHOTCRETE 238,000.00 35.00 35.00 35.00	6,800.000 SF
2426-6772010	BEAM REPAI R, AS PER PLAN 17,500.00 2,500.00 6,000.00 4,375.00	4.000 LS
2426-6772013	REPAI R BEAM ENDS 24,350.00 350.00 3,640.00 1,521.88	16.000 EACH
2426-6772016	CONCRETE REPAI R 491,942.22 40.00 546.00 93.38	5,267.960 SF
2426-6772020	PARTI AL DEPTH BRI DGE DECK FI NI SH PATCH 179,758.77 35.40 40.61 38.14	4,713.000 SF
2427-0686010	BRI DGE CLEANI NG 273,835.76 2,500.00 40,000.00 18,255.72	15.000 LS
2429-0000100	PRE- ENGI NEERED STEEL TRUSS TRAI L BRI DGE, 605,140.00 47,140.00 300,000.00 121,028.00	5.000 EACH
2430-0000100	MODULAR BLOCK RETAI NI NG WALL 259,823.54 18.50 45.00 23.24	11,181.400 SF
2431-0000100	SEGMENTAL BLOCK RETAI NI NG WALL 411,564.06 17.00 50.66 24.84	16,569.000 SF
2432-0000100	MECHANI CALLY STABI LI ZED EARTH RETAI NI NG 3,358,621.45 20.70 32.00 22.71 WALL	147,921.000 SF
2433-0001030	CONCRETE DRI LLED SHAFT, 30 I N. DI AMETER 320,250.00 250.00 250.00 250.00	1,281.000 LF
2433-0001036	CONCRETE DRI LLED SHAFT, 36 I N. DI AMETER 156,400.00 575.00 575.00 575.00	272.000 LF
2433-0001060	CONCRETE DRI LLED SHAFT, 60 I N. DI AMETER 1,095,300.00 300.00 300.00 300.00	3,651.000 LF
2433-0002000	LOAD CELL TEST 206,000.00 103,000.00 103,000.00 103,000.00	2.000 EACH
2433-0003000	DEMONSTRATI ON SHAFT 172,425.00 400.00 1,000.00 914.72	188.500 LF
2434-0000100	DI SC BEARI NG ASSEMBLI ES 75,600.00 2,700.00 2,700.00 2,700.00	28.000 EACH
2435-0100490	MANHOLE, RA- 49 7,075.00 1,750.00 3,575.00 2,358.33	3.000 EACH
2435-0100500	MANHOLE, RA- 50 38,850.00 1,500.00 4,275.00 2,775.00	14.000 EACH

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2435-0130148	MANHOLE,	SANI TARY SEWER, SW 301,	48 I N.	38.000 EACH
114,333.25	1,827.03	4,120.00 3,008.77		
2435-0130348	MANHOLE,	SANI TARY SEWER, SW 303,	48 I N.	10.000 EACH
37,799.50	2,100.00	4,275.00 3,779.95		
2435-0130360	MANHOLE,	SANI TARY SEWER, SW 303,	60 I N.	2.000 EACH
10,608.00	5,304.00	5,304.00 5,304.00		
2435-0130384	MANHOLE,	SANI TARY SEWER, SW 303,	84 I N.	1.000 EACH
18,500.00	18,500.00	18,500.00 18,500.00		
2435-0140148	MANHOLE,	STORM SEWER, SW 401,	48 I N.	72.000 EACH
170,289.30	981.88	3,750.00 2,365.13		
2435-0140160	MANHOLE,	STORM SEWER, SW 401,	60 I N.	19.000 EACH
72,501.94	1,176.54	6,355.00 3,815.89		
2435-0140172	MANHOLE,	STORM SEWER, SW 401,	72 I N.	8.000 EACH
37,278.80	3,450.00	5,000.00 4,659.85		
2435-0140184	MANHOLE,	STORM SEWER, SW 401,	84 I N.	7.000 EACH
51,361.89	1,786.09	10,215.00 7,337.41		
2435-0140196	MANHOLE,	STORM SEWER, SW 401,	96 I N.	2.000 EACH
8,878.76	2,378.76	6,500.00 4,439.38		
2435-0140200	MANHOLE,	STORM SEWER, SW 402		18.000 EACH
70,580.41	1,600.00	6,083.10 3,921.13		
2435-0140204	MANHOLE,	STORM SEWER, SW 402, TOP ONLY		2.000 EACH
3,150.00	1,500.00	1,650.00 1,575.00		
2435-0140214	MANHOLE,	STORM SEWER, SW 402 MODI FI ED,		7.000 EACH
8,575.00	1,225.00	1,225.00 1,225.00		
	TOP ONLY			
2435-0140300	MANHOLE,	STORM SEWER, SW 403		10.000 EACH
59,066.40	2,900.00	17,000.00 5,906.64		
2435-0140310	MANHOLE,	STORM SEWER, SW 403 MODI FI ED		8.000 EACH
112,000.00	14,000.00	14,000.00 14,000.00		
2435-0140400	MANHOLE,	STORM SEWER, SW 404		1.000 EACH
3,441.90	3,441.90	3,441.90 3,441.90		
2435-0200400	I NTAKE,	RA- 40		27.000 EACH
68,663.60	2,065.90	3,600.00 2,543.10		
2435-0200410	I NTAKE,	RA- 41		8.000 EACH
20,736.00	1,859.00	3,500.00 2,592.00		
2435-0200420	I NTAKE,	RA- 42		4.000 EACH
6,350.00	1,400.00	1,650.00 1,587.50		
2435-0200430	I NTAKE,	RA- 43		16.000 EACH
34,889.40	1,165.00	4,000.00 2,180.59		
2435-0200471	BARRI ER I NTAKE,	RA- 47A		54.000 EACH
380,062.80	7,038.20	7,038.20 7,038.20		
2435-0200481	BARRI ER I NTAKE,	RA- 48A		52.000 EACH

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272, 957. 20	2, 787. 75	11, 200. 00	5, 249. 18		
2435- 0200600	I NTAKE,	RA- 60		6. 000	EACH
16, 915. 50	2, 819. 25	2, 819. 25	2, 819. 25		
2435- 0200610	I NTAKE,	RA- 61		1. 000	EACH
2, 000. 00	2, 000. 00	2, 000. 00	2, 000. 00		
2435- 0200620	I NTAKE,	RA- 62		1. 000	EACH
3, 100. 00	3, 100. 00	3, 100. 00	3, 100. 00		
2435- 0200630	I NTAKE,	RA- 63		52. 000	EACH
63, 186. 00	777. 00	2, 400. 00	1, 215. 12		
2435- 0200640	I NTAKE,	RA- 64		3. 000	EACH
5, 800. 00	1, 850. 00	2, 100. 00	1, 933. 33		
2435- 0200700	I NTAKE,	RA- 70		3. 000	EACH
9, 300. 00	3, 100. 00	3, 100. 00	3, 100. 00		
2435- 0250100	I NTAKE,	SW 501		134. 000	EACH
287, 337. 13	1, 250. 00	4, 605. 00	2, 144. 31		
2435- 0250104	I NTAKE,	SW 501, TOP ONLY		2. 000	EACH
4, 080. 00	2, 040. 00	2, 040. 00	2, 040. 00		
2435- 0250200	I NTAKE,	SW 502		3. 000	EACH
6, 984. 12	1, 884. 12	3, 000. 00	2, 328. 04		
2435- 0250300	I NTAKE,	SW 503		54. 000	EACH
181, 575. 60	2, 700. 00	4, 000. 00	3, 362. 51		
2435- 0250400	I NTAKE,	SW 504		2. 000	EACH
12, 546. 80	6, 273. 40	6, 273. 40	6, 273. 40		
2435- 0250404	I NTAKE,	SW 504, TOP ONLY		6. 000	EACH
16, 830. 00	2, 805. 00	2, 805. 00	2, 805. 00		
2435- 0250500	I NTAKE,	SW 505		81. 000	EACH
320, 466. 00	2, 600. 00	6, 451. 00	3, 956. 37		
2435- 0250600	I NTAKE,	SW 506		24. 000	EACH
148, 324. 80	3, 300. 00	9, 823. 70	6, 180. 20		
2435- 0250610	I NTAKE,	SW 506 MODI FI ED		2. 000	EACH
27, 530. 00	13, 765. 00	13, 765. 00	13, 765. 00		
2435- 0250700	I NTAKE,	SW 507		49. 000	EACH
157, 053. 30	1, 850. 00	7, 423. 50	3, 205. 17		
2435- 0250704	I NTAKE,	SW 507, TOP ONLY		10. 000	EACH
30, 018. 00	1, 200. 00	5, 239. 50	3, 001. 80		
2435- 0250710	I NTAKE,	SW 507 MODI FI ED		5. 000	EACH
16, 500. 00	2, 400. 00	3, 900. 00	3, 300. 00		
2435- 0250714	I NTAKE,	SW 507 MODI FI ED, TOP ONLY		4. 000	EACH
4, 800. 00	1, 200. 00	1, 200. 00	1, 200. 00		
2435- 0250800	I NTAKE,	SW 508		68. 000	EACH
197, 739. 40	1, 575. 00	4, 600. 00	2, 907. 93		
2435- 0250804	I NTAKE,	SW 508, TOP ONLY		10. 000	EACH

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30,600.00	3,060.00	3,060.00	3,060.00		
2435-0250810	I NTAKE,	SW 508	MODI FI ED	1.000	EACH
3,960.00	3,960.00	3,960.00	3,960.00		
2435-0250814	I NTAKE,	SW 508	MODI FI ED, TOP ONLY	2.000	EACH
5,000.00	2,500.00	2,500.00	2,500.00		
2435-0250900	I NTAKE,	SW 509		63.000	EACH
226,610.00	2,800.00	4,950.00	3,596.98		
2435-0250910	I NTAKE,	SW 509	MODI FI ED	18.000	EACH
87,300.00	4,850.00	4,850.00	4,850.00		
2435-0250912	I NTAKE,	SW 509	MODI FI ED, WELL ONLY	1.000	EACH
4,800.00	4,800.00	4,800.00	4,800.00		
2435-0251000	I NTAKE,	SW 510		70.000	EACH
222,507.35	2,200.00	5,200.00	3,178.68		
2435-0251004	I NTAKE,	SW 510,	TOP ONLY	48.000	EACH
171,360.00	3,570.00	3,570.00	3,570.00		
2435-0251010	I NTAKE,	SW 510	MODI FI ED	2.000	EACH
10,000.00	5,000.00	5,000.00	5,000.00		
2435-0251100	I NTAKE,	SW 511		18.000	EACH
54,295.90	1,900.00	4,990.30	3,016.44		
2435-0251218	I NTAKE,	SW 512,	18 I N.	23.000	EACH
31,510.00	900.00	1,600.00	1,370.00		
2435-0251224	I NTAKE,	SW 512,	24 I N.	12.000	EACH
18,081.00	825.00	2,330.00	1,506.75		
2435-0251226	I NTAKE,	SW 512,	24 I N., TOP ONLY	4.000	EACH
6,120.00	1,530.00	1,530.00	1,530.00		
2435-0251230	I NTAKE,	SW 512,	30 I N.	5.000	EACH
9,670.00	1,560.00	2,330.00	1,934.00		
2435-0251232	I NTAKE,	SW 512,	30 I N., TOP ONLY	1.000	EACH
2,040.00	2,040.00	2,040.00	2,040.00		
2435-0251236	I NTAKE,	SW 512,	36 I N.	14.000	EACH
16,950.00	850.00	2,600.00	1,210.71		
2435-0251300	I NTAKE,	SW 513		14.000	EACH
45,991.70	2,200.00	7,236.70	3,285.12		
2435-0254100	I NTAKE,	SW 541		17.000	EACH
61,370.00	2,765.00	5,100.00	3,610.00		
2435-0254104	I NTAKE,	SW 541,	TOP ONLY	1.000	EACH
1,500.00	1,500.00	1,500.00	1,500.00		
2435-0254110	I NTAKE,	SW 541	MODI FI ED	1.000	EACH
4,125.00	4,125.00	4,125.00	4,125.00		
2435-0254114	I NTAKE,	SW 541	MODI FI ED, TOP ONLY	1.000	EACH
2,600.00	2,600.00	2,600.00	2,600.00		
2435-0254200	I NTAKE	EXTENSI ON UNI T,	SW 542	5.000	EACH

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28,750.00	5,750.00	5,750.00	5,750.00	
2435-0254500	I NTAKE, SW 545			40.000 EACH
180,567.21	2,500.00	4,950.00	4,514.18	
2435-0254510	I NTAKE, SW 545 MODI FI ED			9.000 EACH
40,736.50	3,387.30	5,950.00	4,526.28	
2435-0254514	I NTAKE, SW 545 MODI FI ED, TOP ONLY			1.000 EACH
2,250.00	2,250.00	2,250.00	2,250.00	
2435-0254900	BARRI ER I NTAKE, SW 549			18.000 EACH
118,443.00	6,379.00	10,000.00	6,580.17	
2435-0500000	CASTI NG EXTENSI ON RI NGS			23.000 EACH
12,650.00	550.00	550.00	550.00	
2435-0600010	MANHOLE ADJUSTMENT, M NOR			102.000 EACH
67,702.22	168.00	1,475.00	663.75	
2435-0600020	MANHOLE ADJUSTMENT, MAJOR			52.000 EACH
75,249.12	725.00	5,700.00	1,447.10	
2435-0600110	I NTAKE ADJUSTMENT, M NOR			41.000 EACH
93,698.70	400.00	2,448.90	2,285.33	
2435-0600120	I NTAKE ADJUSTMENT, MAJOR			17.000 EACH
33,961.60	542.85	2,730.40	1,997.74	
2435-0700010	CONNECTI ON TO EXI STI NG MANHOLE			42.000 EACH
40,812.65	400.00	2,870.65	971.73	
2435-0700020	CONNECTI ON TO EXI STI NG I NTAKE			4.000 EACH
4,200.00	400.00	1,450.00	1,050.00	
2499-0100000	PI PE I NSTALLED BY TRENCHLESS CONSTRUCTI ON,			96.000 LF
55,142.40	574.40	574.40	574.40	
2499-0700008	ERECT DETOUR BRI DGE UNI TS			1.000 LS
11,500.00	11,500.00	11,500.00	11,500.00	
2499-0700009	HAUL DETOUR BRI DGE UNI TS			1.000 LS
14,000.00	14,000.00	14,000.00	14,000.00	
2499-0700070	BRI DGE RAI SI NG			1.000 LS
7,500.00	7,500.00	7,500.00	7,500.00	
2499-0800000	PAVI NG NOTCH REPLACEMENT			342.800 LF
46,264.00	100.00	230.00	134.96	
2499-2300001	DECK DRAI NS			3.000 LS
39,400.00	7,400.00	16,000.00	13,133.33	
2499-2300002	BRI DGE DRAI NAGE SYSTEM			1.000 LS
110,000.00	110,000.00	110,000.00	110,000.00	
2499-2300026	DRAI N EXTENSI ONS			86.000 EACH
46,860.00	250.00	1,000.00	544.88	
2499-4000036	SLI PLI NI NG EXI STI NG CULVERTS, LESS THAN OR EQUAL TO 36 I N. DI A. OR HEI GHT			58.000 LF
6,670.00	115.00	115.00	115.00	

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2499-4000136	SLI PLI NI NG EXI STI NG CULVERTS, GREATER				243.500	LF
36,507.50	142.00 165.00 149.93					
	THAN 36 I N. DI A. OR HEI GHT					
2501-0201042	PI LES, STEEL, HP 10 X 42				69,505.000	LF
2,013,603.30	20.00 140.00 28.97					
2501-0201057	PI LES, STEEL, HP 10 X 57				142,225.000	LF
4,862,894.60	24.00 60.00 34.19					
2501-0201253	PI LES, STEEL, HP 12 X 53				36,115.000	LF
1,227,960.00	26.00 50.00 34.00					
2501-0201473	PI LES, STEEL, HP 14 X 73				12,085.000	LF
523,756.00	34.45 46.00 43.34					
2501-0201489	PI LES, STEEL, HP 14 X 89				3,645.000	LF
176,850.00	46.00 55.00 48.52					
2501-5374060	TEST PI LE				1.000	LS
1,500.00	1,500.00 1,500.00 1,500.00					
2501-5475042	CONCRETE ENCASEMENT OF STEEL H PI LES, HP				5,340.580	LF
376,047.30	40.00 120.00 70.41					
	10 X 42 (P10A TYPE 3)					
2501-5475053	CONCRETE ENCASEMENT OF STEEL H PI LES, HP				2,559.200	LF
189,961.20	58.00 180.00 74.23					
	12 X 53 (P10A TYPE 3)					
2501-5478042	CONCRETE ENCASEMENT OF STEEL H PI LES, HP				1,889.600	LF
128,710.40	65.00 75.00 68.12					
	10 X 42 (P10L TYPE 3)					
2501-5478053	CONCRETE ENCASEMENT OF STEEL H PI LES, HP				3,349.100	LF
197,263.30	45.00 75.00 58.90					
	12 X 53 (P10L TYPE 3)					
2501-5478073	CONCRETE ENCASEMENT OF STEEL H PI LES, HP				1,594.000	LF
125,229.40	60.00 101.00 78.56					
	14 X 73 (P10L TYPE 3)					
2501-5650216	PI LES, PRESTRESSED CONCRETE, 16 I N.				1,440.000	LF
73,440.00	51.00 51.00 51.00					
	(P10A TYPE 2)					
2501-5658214	PI LES, PRESTRESSED CONCRETE, 14 I N.				1,170.000	LF
58,500.00	50.00 50.00 50.00					
	(P10L TYPE 2)					
2501-5658216	PI LES, PRESTRESSED CONCRETE, 16 I N.				1,440.000	LF
89,280.00	62.00 62.00 62.00					
	(P10L TYPE 2)					
2501-5775000	PI LES, STEEL SHEET				6,646.000	SF
142,271.75	17.00 32.75 21.41					
2501-6335010	PREBORED HOLES				11,507.000	LF
455,479.40	24.00 625.00 39.58					
2501-8400170	TEMPORARY SHEET PI LES AND SHORI NG				5.000	LS
532,720.00	16,220.00 316,000.00 106,544.00					

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2501-8400172	TEMPORARY SHORING				13.000	LS
459,800.00	2,000.00	100,000.00	35,369.23			
2501-8400179	TEMPORARY SUPPORTS				2.000	LS
55,000.00	24,000.00	31,000.00	27,500.00			
2502-2301000	FIN DRAIN, AS PER PLAN				895.000	LF
10,292.50	11.50	11.50	11.50			
2502-2308100	TRENCH DRAIN				1,695.000	LF
86,660.00	15.00	52.00	51.13			
2502-4388106	INTAKE, STANDPIPE, 6 IN., AS PER PLAN				1.000	EACH
250.00	250.00	250.00	250.00			
2502-4388108	INTAKE, STANDPIPE, 8 IN., AS PER PLAN				7.000	EACH
910.00	130.00	130.00	130.00			
2502-6745952	REMOVAL OF SUBDRAIN				52,125.600	LF
96,647.22	1.47	5.00	1.85			
2502-8212024	SUBDRAIN, LONGITUDINAL, (BACKSLOPE) 4 IN. DIA.				3,400.000	LF
36,000.00	10.00	12.00	10.59			
2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.				1101462.700	LF
5,685,249.43	2.90	141.40	5.16			
2502-8212036	SUBDRAIN, LONGITUDINAL, (SHOULDER) 6 IN. DIA.				49,205.000	LF
449,539.30	5.90	18.00	9.14			
2502-8212104	SUBDRAIN, PLASTIC PIPE, 4 IN.				4,116.000	LF
43,311.60	6.00	16.72	10.52			
2502-8212106	SUBDRAIN, PLASTIC PIPE, 6 IN.				20.000	LF
140.00	7.00	7.00	7.00			
2502-8212115	SUBDRAIN, PLASTIC PIPE, 15 IN.				30.000	LF
420.00	14.00	14.00	14.00			
2502-8212204	SUBDRAIN, PERFORATED PLASTIC PIPE, 4 IN. DIA.				19,046.500	LF
166,636.39	4.45	18.00	8.75			
2502-8212206	SUBDRAIN, PERFORATED PLASTIC PIPE, 6 IN. DIA.				14,500.000	LF
162,925.85	7.50	14.15	11.24			
2502-8212208	SUBDRAIN, PERFORATED PLASTIC PIPE, 8 IN. DIA.				2,070.000	LF
8,280.00	4.00	4.00	4.00			
2502-8212210	SUBDRAIN, PERFORATED PLASTIC PIPE, 10 IN. DIA.				114.000	LF
3,192.00	28.00	28.00	28.00			
2502-8212212	SUBDRAIN, PERFORATED PLASTIC PIPE, 12 IN. DIA.				19.000	LF
608.00	32.00	32.00	32.00			

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2502- 8212304	SUBDRAI N,	STANDARD,	PERFORATED,	4 I N. ,	14, 549. 900 LF
131, 160. 60	8. 50	20. 00	9. 01		
	AS PER PLAN				
2502- 8212306	SUBDRAI N,	STANDARD,	PERFORATED,	6 I N. ,	3, 650. 000 LF
32, 032. 50	1. 00	11. 00	8. 78		
	AS PER PLAN				
2502- 8212406	SUBDRAI N,	STANDARD,	NON- PERFORATED,	6	18. 000 LF
329. 94	18. 33	18. 33	18. 33		
	I N. , AS PER PLAN				
2502- 8212415	SUBDRAI N,	STANDARD,	NON- PERFORATED,	15	64. 000 LF
960. 00	15. 00	15. 00	15. 00		
	I N. , AS PER PLAN				
2502- 8213106	SUBDRAI N,	PVC, STANDARD,	NON- PERFORATED,	6 I N.	111. 000 LF
1, 282. 05	11. 55	11. 55	11. 55		
2502- 8213108	SUBDRAI N,	PVC, STANDARD,	NON- PERFORATED,	8 I N.	75. 000 LF
1, 125. 00	15. 00	15. 00	15. 00		
2502- 8213206	SUBDRAI N,	PVC, STANDARD,	PERFORATED,	6	7, 318. 000 LF
88, 445. 82	8. 70	15. 86	12. 09		
	I N.				
2502- 8213208	SUBDRAI N,	PVC, STANDARD,	PERFORATED,	8	709. 000 LF
11, 875. 75	16. 75	16. 75	16. 75		
	I N.				
2502- 8214515	SUBDRAI N,	1500D CONCRETE PI PE,	15 I N.		95. 000 LF
5, 809. 25	61. 15	61. 15	61. 15		
	DI A.				
2502- 8214521	SUBDRAI N,	1500D CONCRETE PI PE,	21 I N.		185. 000 LF
11, 886. 25	64. 25	64. 25	64. 25		
	DI A.				
2502- 8214536	SUBDRAI N,	1500D CONCRETE PI PE,	36 I N.		320. 000 LF
28, 128. 00	87. 90	87. 90	87. 90		
	DI A.				
2502- 8215012	SUBDRAI N,	2000D CONCRETE PI PE,	12 I N.		155. 000 LF
5, 437. 50	27. 30	67. 50	35. 08		
	DI A.				
2502- 8215018	SUBDRAI N,	2000D CONCRETE PI PE,	18 I N.		125. 000 LF
4, 331. 25	34. 65	34. 65	34. 65		
	DI A.				
2502- 8215024	SUBDRAI N,	2000D CONCRETE PI PE,	24 I N.		6. 000 LF
510. 00	85. 00	85. 00	85. 00		
	DI A.				
2502- 8215106	SUBDRAI N,	CORRUGATED METAL PI PE,	6 I N.		128. 000 LF
3, 352. 30	12. 85	50. 00	26. 19		
	DI A.				
2502- 8215112	SUBDRAI N,	CORRUGATED METAL PI PE,	12 I N.		362. 000 LF
21, 244. 50	15. 00	61. 65	58. 69		
	DI A.				

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2502-8215124	SUBDRAIN, CORRUGATED METAL PIPE, 24 IN. DIA.	5,760.00	48.00	48.00	48.00	120.000 LF
2502-8215804	SUBDRAIN, TILE, 4 IN. DIA.	69,705.00	3.00	10.50	8.93	7,804.000 LF
2502-8215806	SUBDRAIN, TILE, 6 IN. DIA.	2,318.00	9.40	50.00	15.99	145.000 LF
2502-8215810	SUBDRAIN, TILE, 10 IN. DIA.	814.40	13.00	23.10	18.51	44.000 LF
2502-8215812	SUBDRAIN, TILE, 12 IN. DIA.	25,028.00	14.00	30.50	25.91	966.000 LF
2502-8220193	SUBDRAIN OUTLET (RF-19C)	186,251.99	48.34	500.00	165.12	1,128.000 EACH
2502-8220196	SUBDRAIN OUTLET, RF-19E	673,236.09	25.00	1,000.00	165.86	4,059.000 EACH
2502-8220197	SUBDRAIN OUTLET (RF-19F)	12,289.43	150.00	1,000.00	299.74	41.000 EACH
2502-8221006	SUBDRAIN RISER, 6 IN., AS PER PLAN	5,221.98	120.33	250.00	153.59	34.000 EACH
2503-0110008	STORM SEWER GRAVITY MAIN, TRENCHED, 8 IN.	9,157.50	26.25	40.00	26.85	341.000 LF
2503-0110012	STORM SEWER GRAVITY MAIN, TRENCHED, 12 IN.	7,609.80	35.00	105.00	46.40	164.000 LF
2503-0110015	STORM SEWER GRAVITY MAIN, TRENCHED, 15 IN.	94,607.38	46.00	63.50	47.71	1,983.000 LF
2503-0110018	STORM SEWER GRAVITY MAIN, TRENCHED, 18 IN.	22,752.80	48.40	50.00	48.41	470.000 LF
2503-0110021	STORM SEWER GRAVITY MAIN, TRENCHED, 21 IN.	2,350.00	50.00	50.00	50.00	47.000 LF
2503-0110024	STORM SEWER GRAVITY MAIN, TRENCHED, 24 IN.	81,974.09	26.25	56.68	41.72	1,965.000 LF
2503-0110027	STORM SEWER GRAVITY MAIN, TRENCHED, 27 IN.	21,285.00	49.50	49.50	49.50	430.000 LF
2503-0110030	STORM SEWER GRAVITY MAIN, TRENCHED, 30 IN.	105,262.00	41.00	60.00	41.94	2,510.000 LF
2503-0110036	STORM SEWER GRAVITY MAIN, TRENCHED, 36 IN.	1,750.00	70.00	70.00	70.00	25.000 LF

I N

2503-0111015 1,066.00	STORM SEWER GRAVI TY MAI N, TRENCHED, HI GH 26.00 26.00 26.00 DENSI TY POLYETHYLENE PI PE (HDPE), 15 I N	41.000 LF
2503-0111018 6,090.00	STORM SEWER GRAVI TY MAI N, TRENCHED, HI GH 42.00 42.00 42.00 DENSI TY POLYETHYLENE PI PE (HDPE), 18 I N	145.000 LF
2503-0111024 558.00	STORM SEWER GRAVI TY MAI N, TRENCHED, HI GH 62.00 62.00 62.00 DENSI TY POLYETHYLENE PI PE (HDPE), 24 I N	9.000 LF
2503-0111030 2,105.60	STORM SEWER GRAVI TY MAI N, TRENCHED, HI GH 47.00 47.00 47.00 DENSI TY POLYETHYLENE PI PE (HDPE), 30 I N	44.800 LF
2503-0112008 277.50	STORM SEWER GRAVI TY MAI N, TRENCHED, 15.00 15.00 15.00 POLYVI NYL CHLORI DE PI PE (PVC), 8 I N.	18.500 LF
2503-0112010 5,158.13	STORM SEWER GRAVI TY MAI N, TRENCHED, 41.50 45.29 42.98 POLYVI NYL CHLORI DE PI PE (PVC), 10 I N.	120.000 LF
2503-0112012 2,703.00	STORM SEWER GRAVI TY MAI N, TRENCHED, 25.50 25.50 25.50 POLYVI NYL CHLORI DE PI PE (PVC), 12 I N.	106.000 LF
2503-0114212 124,876.29	STORM SEWER GRAVI TY MAI N, TRENCHED, 25.00 77.28 41.05 REI NFORCED CONCRETE PI PE (RCP), 2000D (C III), 12 I N.	3,042.000 LF
2503-0114215 1,298,328.91	STORM SEWER GRAVI TY MAI N, TRENCHED, 17.00 225.00 39.86 REI NFORCED CONCRETE PI PE (RCP), 2000D (C III), 15 I N.	32,568.500 LF
2503-0114218 317,706.90	STORM SEWER GRAVI TY MAI N, TRENCHED, 21.00 225.00 42.70 REI NFORCED CONCRETE PI PE (RCP), 2000D (C III), 18 I N.	7,441.100 LF
2503-0114221 33,366.00	STORM SEWER GRAVI TY MAI N, TRENCHED, 33.50 33.50 33.50 REI NFORCED CONCRETE PI PE (RCP), 2000D (C III), 21 I N.	996.000 LF
2503-0114224 717,596.65	STORM SEWER GRAVI TY MAI N, TRENCHED, 33.00 250.00 49.80 REI NFORCED CONCRETE PI PE (RCP), 2000D (C III), 24 I N.	14,411.000 LF
2503-0114227 43,780.12	STORM SEWER GRAVI TY MAI N, TRENCHED, 39.10 41.16 39.51 REI NFORCED CONCRETE PI PE (RCP), 2000D (C III), 27 I N.	1,108.000 LF

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2503-0114230 442,773.42	STORM SEWER GRAVITY MAIN, TRENCHED, 35.00 125.00 57.34 REINFORCED CONCRETE PIPE (RCP), 2000D (C III), 30 IN.	7,722.200 LF
2503-0114236 224,116.61	STORM SEWER GRAVITY MAIN, TRENCHED, 57.70 120.44 70.50 REINFORCED CONCRETE PIPE (RCP), 2000D (C III), 36 IN.	3,179.100 LF
2503-0114242 220,434.10	STORM SEWER GRAVITY MAIN, TRENCHED, 56.00 132.00 98.72 REINFORCED CONCRETE PIPE (RCP), 2000D (C III), 42 IN.	2,233.000 LF
2503-0114248 123,884.92	STORM SEWER GRAVITY MAIN, TRENCHED, 80.00 352.00 114.92 REINFORCED CONCRETE PIPE (RCP), 2000D (C III), 48 IN.	1,078.000 LF
2503-0114254 13,545.40	STORM SEWER GRAVITY MAIN, TRENCHED, 144.10 144.10 144.10 REINFORCED CONCRETE PIPE (RCP), 2000D (C III), 54 IN.	94.000 LF
2503-0114272 29,117.10	STORM SEWER GRAVITY MAIN, TRENCHED, 213.00 213.00 213.00 REINFORCED CONCRETE PIPE (RCP), 2000D (C III), 72 IN.	136.700 LF
2503-0114424 3,871.00	STORM SEWER GRAVITY MAIN, TRENCHED, 79.00 79.00 79.00 REINFORCED CONCRETE PIPE (RCP), 3000D (C IV), 24 IN.	49.000 LF
2503-0114460 65,325.00	STORM SEWER GRAVITY MAIN, TRENCHED, 195.00 195.00 195.00 REINFORCED CONCRETE PIPE (RCP), 3000D (C IV), 60 IN.	335.000 LF
2503-0114472 351,790.00	STORM SEWER GRAVITY MAIN, TRENCHED, 254.00 254.00 254.00 REINFORCED CONCRETE PIPE (RCP), 3000D (C IV), 72 IN.	1,385.000 LF
2503-0114615 130,104.00	STORM SEWER GRAVITY MAIN, TRENCHED, 31.50 43.00 35.04 REINFORCED CONCRETE PIPE (RCP), 3750D (C V), 15 IN.	3,713.000 LF
2503-0114618 113,951.50	STORM SEWER GRAVITY MAIN, TRENCHED, 36.50 53.00 39.75 REINFORCED CONCRETE PIPE (RCP), 3750D (C V), 18 IN.	2,867.000 LF
2503-0116222 9,118.10	STORM SEWER GRAVITY MAIN, TRENCHED, 39.15 68.00 58.08 REINFORCED CONCRETE ARCH PIPE (RCAP), 20(CLASS A-III), 22 IN. X 14 IN.	157.000 LF
2503-0116229 13,030.00	STORM SEWER GRAVITY MAIN, TRENCHED, 51.00 62.00 52.97	246.000 LF

	REINFORCED CONCRETE ARCH PIPE (RCAP), 20 (CLASS A-III), 29 IN. X 18 IN.		
2503-0116237 9,975.00	STORM SEWER GRAVITY MAIN, TRENCHED, 95.00 95.00 95.00 REINFORCED CONCRETE ARCH PIPE (RCAP), 20 (CLASS A-III), 37 IN. X 23 IN.	105.000 LF	
2503-0116252 9,435.00	STORM SEWER GRAVITY MAIN, TRENCHED, 185.00 185.00 185.00 REINFORCED CONCRETE ARCH PIPE (RCAP), 20 (CLASS A-III), 52 IN. X 32 IN.	51.000 LF	
2503-0116265 5,434.00	STORM SEWER GRAVITY MAIN, TRENCHED, 190.00 190.00 190.00 REINFORCED CONCRETE ARCH PIPE (RCAP), 20 (CLASS A-III), 65 IN. X 40 IN.	28.600 LF	
2503-0120024 27,300.00	STORM SEWER GRAVITY MAIN, TRENCHLESS, 24 IN. 350.00 350.00 350.00	78.000 LF	
2503-0120042 36,780.00	STORM SEWER GRAVITY MAIN, TRENCHLESS, 42 IN. 613.00 613.00 613.00	60.000 LF	
2503-0124218 26,137.00	STORM SEWER GRAVITY MAIN, TRENCHLESS, 221.50 221.50 221.50 REINFORCED CONCRETE PIPE (RCP), 2000D (CSS III), 18 IN.	118.000 LF	
2503-0124224 68,640.00	STORM SEWER GRAVITY MAIN, TRENCHLESS, 390.00 390.00 390.00 REINFORCED CONCRETE PIPE (RCP), 2000D (CSS III), 24 IN.	176.000 LF	
2503-0124227 29,486.00	STORM SEWER GRAVITY MAIN, TRENCHLESS, 320.50 320.50 320.50 REINFORCED CONCRETE PIPE (RCP), 2000D (CSS III), 27 IN.	92.000 LF	
2503-0124421 17,325.00	STORM SEWER GRAVITY MAIN, TRENCHLESS, 315.00 315.00 315.00 REINFORCED CONCRETE PIPE (RCP), 3000D (CSS IV), 21 IN.	55.000 LF	
2503-0124436 41,250.00	STORM SEWER GRAVITY MAIN, TRENCHLESS, 375.00 375.00 375.00 REINFORCED CONCRETE PIPE (RCP), 3000D (CSS IV), 36 IN.	110.000 LF	
2503-0124624 20,000.00	STORM SEWER GRAVITY MAIN, TRENCHLESS, 250.00 250.00 250.00 REINFORCED CONCRETE PIPE (RCP), 3750D (CSS V), 24 IN.	80.000 LF	
2503-0200036 300,015.80	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN. 4.25 54.00 12.29	24,406.500 LF	
2503-0200136 10,283.29	REMOVE STORM SEWER PIPE GREATER THAN 36 IN. 5.00 49.00 10.69	962.000 LF	

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2503-0200236	REMOVE AND REINSTALL STORM SEWER PIPE 4,192.00	50.00	54.00	52.40	80.000 LF
	LESS THAN OR EQUAL TO 36 IN.				
2503-0500400	BRI DGE END DRAIN, RF-40 250,850.00	1,300.00	5,000.00	2,668.62	94.000 EACH
2503-3775012	GATE, OUTLET CONTROL, FLAP, 12 IN. 1,130.90	1,130.90	1,130.90	1,130.90	1.000 EACH
2503-3775018	GATE, OUTLET CONTROL, FLAP, 18 IN. 1,435.40	1,435.40	1,435.40	1,435.40	1.000 EACH
2503-3775024	GATE, OUTLET CONTROL, FLAP, 24 IN. 6,950.00	550.00	2,200.00	1,737.50	4.000 EACH
2503-4360110	INTAKE, MODIFICATION 2,729.88	1,364.94	1,364.94	1,364.94	2.000 EACH
2503-4400000	INTAKE, TOP ONLY, AS PER PLAN 2,045.70	605.35	835.00	681.90	3.000 EACH
2503-4450245	INTAKE, REBUILDING, AS PER PLAN 1,600.00	450.00	700.00	533.33	3.000 EACH
2503-4450410	INTAKE, TYPE B, AS PER PLAN 11,600.00	2,900.00	2,900.00	2,900.00	4.000 EACH
2503-4450430	INTAKE, TYPE D, AS PER PLAN 11,100.00	3,700.00	3,700.00	3,700.00	3.000 EACH
2503-4470400	INTAKE, RA-40 12,239.00	2,200.00	3,239.00	2,447.80	5.000 EACH
2503-4470404	INTAKE, RA-40, TOP ONLY 2,200.00	2,200.00	2,200.00	2,200.00	1.000 EACH
2503-4470410	INTAKE, RA-41 4,169.00	4,169.00	4,169.00	4,169.00	1.000 EACH
2503-4470414	INTAKE, RA-41, TOP ONLY 8,360.00	4,180.00	4,180.00	4,180.00	2.000 EACH
2503-4470430	INTAKE, RA-43 23,100.00	3,300.00	3,300.00	3,300.00	7.000 EACH
2503-4470434	INTAKE, RA-43, TOP ONLY 3,900.00	1,300.00	1,300.00	1,300.00	3.000 EACH
2503-4470437	INTAKE, RA-43 MODIFIED, WELL ONLY 17,400.00	5,800.00	5,800.00	5,800.00	3.000 EACH
2503-4470610	INTAKE, RA-61 1,700.00	1,700.00	1,700.00	1,700.00	1.000 EACH
2503-4470630	INTAKE, RA-63 9,300.00	1,000.00	2,000.00	1,328.57	7.000 EACH
2503-4470704	INTAKE, RA-70 TOP ONLY 10,230.00	5,115.00	5,115.00	5,115.00	2.000 EACH
2503-4480500	STORM SEWER UTILITY ACCESS, RA-50 Page 45				8.000 EACH

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20,100.00	2,000.00	4,500.00	2,512.50	
2503-4480505	STORM SEWER UTI LI TY ACCESS, RA- 50			5.000 EACH
17,400.00	3,200.00	3,900.00	3,480.00	
	MODI FI ED			
2503-7181036	REMOVE STORM SEWER PI PE LESS THAN OR			325.000 LF
1,638.00	4.00	10.00	5.04	
	EQUAL TO 36 I N.			
2503-7181136	REMOVE STORM SEWER PI PE GREATER THAN 36			450.000 LF
3,600.00	8.00	8.00	8.00	
	I N.			
2503-7182036	REMOVE AND REI NSTALL STORM SEWER PI PE			55.000 LF
1,650.00	30.00	30.00	30.00	
	LESS THAN OR EQUAL TO 36 I N.			
2503-7325012	SEWER PI PE, 2000D STORM 12 I N. DI A.			595.000 LF
15,237.08	23.00	72.70	25.61	
2503-7325015	SEWER PI PE, 2000D STORM 15 I N. DI A.			1,172.000 LF
37,799.00	25.00	44.00	32.25	
2503-7325018	SEWER PI PE, 2000D STORM 18 I N. DI A.			1,375.000 LF
47,893.50	29.50	39.50	34.83	
2503-7325021	SEWER PI PE, 2000D STORM 21 I N. DI A.			51.500 LF
1,442.00	28.00	28.00	28.00	
2503-7325024	SEWER PI PE, 2000D STORM 24 I N. DI A.			1,290.000 LF
56,852.00	30.00	385.00	44.07	
2503-7325027	SEWER PI PE, 2000D STORM 27 I N. DI A.			276.000 LF
11,730.00	42.50	42.50	42.50	
2503-7325030	SEWER PI PE, 2000D STORM 30 I N. DI A.			980.500 LF
37,189.00	36.00	67.00	37.93	
2503-7325042	SEWER PI PE, 2000D STORM 42 I N. DI A.			165.000 LF
12,375.00	75.00	75.00	75.00	
2503-7325048	SEWER PI PE, 2000D STORM 48 I N. DI A.			384.000 LF
36,480.00	95.00	95.00	95.00	
2503-7325066	SEWER PI PE, 2000D STORM 66 I N. DI A.			414.000 LF
52,992.00	128.00	128.00	128.00	
2503-7326015	SEWER PI PE, 2000D JACKED STORM 15 I N.			32.000 LF
7,808.00	244.00	244.00	244.00	
	DI A.			
2503-7382008	SEWER PI PE, PLASTI C STORM 8 I N. DI A.			56.000 LF
700.00	12.50	12.50	12.50	
2503-7382010	SEWER PI PE, PLASTI C STORM 10 I N. DI A.			263.000 LF
5,391.50	20.50	20.50	20.50	
2504-0114008	SANI TARY SEWER GRAVI TY MAI N, TRENCHED,			1,892.000 LF
81,909.23	35.34	48.57	43.29	
	POLYVI NYL CHLORI DE PI PE (PVC) , 8 I N.			
2504-0114012	SANI TARY SEWER GRAVI TY MAI N, TRENCHED,			1,079.000 LF

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51, 997. 01	48. 19	48. 19	48. 19	
	POLYVI NYL CHLORI DE PI PE (PVC) , 12 I N.			
2504- 0114018	58. 94	58. 94	58. 94	1, 535. 000 LF
90, 472. 90	SANI TARY SEWER GRAVI TY MAI N, TRENCHED, POLYVI NYL CHLORI DE PI PE (PVC) , 18 I N.			
2504- 0114024	81. 10	81. 10	81. 10	140. 000 LF
11, 354. 00	SANI TARY SEWER GRAVI TY MAI N, TRENCHED, POLYVI NYL CHLORI DE PI PE (PVC) , 24 I N.			
2504- 0116004	43. 00	43. 00	43. 00	20. 000 LF
860. 00	SANI TARY SEWER GRAVI TY MAI N, TRENCHED, DUCTI LE I RON PI PE (DI P) , 4 I N.			
2504- 0116008	64. 00	73. 95	72. 79	86. 000 LF
6, 260. 20	SANI TARY SEWER GRAVI TY MAI N, TRENCHED, DUCTI LE I RON PI PE (DI P) , 8 I N.			
2504- 0116010	66. 00	66. 00	66. 00	47. 000 LF
3, 102. 00	SANI TARY SEWER GRAVI TY MAI N, TRENCHED, DUCTI LE I RON PI PE (DI P) , 10 I N.			
2504- 0116018	168. 00	168. 00	168. 00	161. 000 LF
27, 048. 00	SANI TARY SEWER GRAVI TY MAI N, TRENCHED, DUCTI LE I RON PI PE (DI P) , 18 I N.			
2504- 0119008	86. 00	86. 00	86. 00	80. 000 LF
6, 880. 00	SANI TARY SEWER GRAVI TY MAI N, TRENCHED, VI TRI FI ED CLAY PI PE (VCP) , EXTRA STRENGT, 8 I N.			
2504- 0119012	64. 00	64. 00	64. 00	24. 000 LF
1, 536. 00	SANI TARY SEWER GRAVI TY MAI N, TRENCHED, VI TRI FI ED CLAY PI PE (VCP) , EXTRA STRENGT, 12 I N.			
2504- 0119015	120. 00	120. 00	120. 00	6. 000 LF
720. 00	SANI TARY SEWER GRAVI TY MAI N, TRENCHED, VI TRI FI ED CLAY PI PE (VCP) , EXTRA STRENGT, 15 I N.			
2504- 0200404	35. 00	35. 00	35. 00	548. 000 LF
19, 180. 00	SANI TARY SEWER SERVI CE STUB, POLYVI NYL CHLORI DE PI PE (PVC) , 4 I N.			
2504- 0200406	27. 00	55. 62	38. 26	997. 000 LF
38, 148. 50	SANI TARY SEWER SERVI CE STUB, POLYVI NYL CHLORI DE PI PE (PVC) , 6 I N.			
2504- 0220000	320. 00	2, 250. 00	871. 43	7. 000 EACH
6, 100. 00	SANI TARY SEWER SERVI CE RELOCATI ON			
2504- 0230000	5, 300. 00	5, 300. 00	5, 300. 00	1. 000 EACH
5, 300. 00	SEWAGE AI R RELEASE VALVE AND PI T			
2504- 0240036	1. 03	94. 36	12. 28	3, 613. 000 LF
44, 381. 91	REMOVE SANI TARY SEWER PI PE LESS THAN OR EQUAL TO 36 I N.			
2504- 4650007	359. 69	359. 69	359. 69	1. 000 EACH
359. 69	UTI LI TY ACCESS, REBUI LD SANI TARY SEWER, TOP ONLY			

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2504-7065008	SEWER PI PE,	PLASTI C SANI TARY,	8 I N. DI A.	582. 500 LF
20, 856. 25	32. 50	36. 00	35. 80	
2504-7065015	SEWER PI PE,	PLASTI C SANI TARY,	15 I N.	2, 732. 000 LF
112, 012. 00	41. 00	41. 00	41. 00	
	DI A.			
2504-7065018	SEWER PI PE,	PLASTI C SANI TARY,	18 I N.	644. 000 LF
27, 370. 00	42. 50	42. 50	42. 50	
	DI A.			
2504-7065021	SEWER PI PE,	PLASTI C SANI TARY,	21 I N.	382. 500 LF
17, 212. 50	45. 00	45. 00	45. 00	
	DI A.			
2504-7398004	SEWER SERVI CE,	SANI TARY,	4 I N. DI A.	209. 400 LF
5, 444. 40	26. 00	26. 00	26. 00	
2504-7398006	SEWER SERVI CE,	SANI TARY,	6 I N. DI A.	775. 000 LF
42, 801. 00	55. 00	77. 00	55. 23	
2504-8462510	SANI TARY SEWER UTI LI TY ACCESS (PRECAST)			3. 000 EACH
7, 200. 00	2, 400. 00	2, 400. 00	2, 400. 00	
	(RA- 51)			
2504-8463500	UTI LI TY ACCESS, SANI TARY SEWER, STANDARD			20. 000 EACH
59, 975. 00	2, 500. 00	5, 000. 00	2, 998. 75	
2505-4008100	REMOVAL OF GUARDRAI L			9, 577. 000 LF
40, 226. 70	1. 50	10. 00	4. 20	
2505-4008120	REMOVAL OF STEEL BEAM GUARDRAI L			48, 879. 450 LF
222, 461. 04	1. 50	23. 00	4. 55	
2505-4008130	REMOVAL OF CABLE GUARDRAI L			32, 192. 000 LF
69, 930. 55	1. 00	5. 00	2. 17	
2505-4008200	I NSTALLATI ON OF GUARDRAI L			20, 337. 300 LF
270, 276. 70	4. 00	27. 00	13. 29	
2505-4008300	STEEL BEAM GUARDRAI L			28, 435. 050 LF
464, 334. 83	5. 50	120. 00	16. 33	
2505-4008400	STEEL BEAM GUARDRAI L BARRI ER TRANSI TI ON			445. 000 EACH
686, 120. 70	787. 50	2, 100. 00	1, 541. 84	
	SECTI ON			
2505-4020229	GUARDRAI L, END ANCHORAGE, CABLE, RE-29A			45. 000 EACH
41, 560. 00	800. 00	2, 160. 00	923. 56	
2505-4020580	GUARDRAI L, SPECI AL ANCHOR SECTI ON			20. 000 EACH
43, 050. 00	1, 050. 00	3, 150. 00	2, 152. 50	
2505-4021010	STEEL BEAM GUARDRAI L END ANCHOR, BOLTED			409. 000 EACH
98, 632. 40	100. 00	2, 100. 00	241. 16	
2505-4021020	STEEL BEAM GUARDRAI L END ANCHOR, W BEAM			17. 000 EACH
15, 450. 00	200. 00	2, 000. 00	908. 82	
2505-4021030	STEEL BEAM GUARDRAI L END ANCHOR, THRI E			9. 000 EACH
4, 150. 00	250. 00	1, 200. 00	461. 11	
	BEAM			

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2505-4021272	GUARDRAI L,	END ANCHORAGE,	BEAM	RE-27B	8.000	EACH
1,700.00	125.00	300.00	212.50			
2505-4021690	GUARDRAI L,	END ANCHORAGE,	BEAM	RE-69	97.000	EACH
24,320.00	120.00	325.00	250.72			
2505-4021700	STEEL BEAM GUARDRAI L	END TERM NAL			462.000	EACH
781,930.30	220.00	2,200.00	1,692.49			
2505-4021701	STEEL BEAM GUARDRAI L	FLARED END TERM NAL			38.000	EACH
66,955.00	1,250.00	3,000.00	1,761.97			
2505-4021762	GUARDRAI L	TERM NAL,	BEAM	FLARED, RE-76	118.000	EACH
152,986.00	1,000.00	1,800.00	1,296.49			
2505-4500370	GUARDRAI L,	SPECI AL	POST ADAPTER UNI T,		6.000	EACH
1,800.00	300.00	300.00	300.00			
	RE-37					
2505-6000111	HI GH TENS I ON CABLE	GUARDRAI L			224,238.800	LF
1,727,713.03	5.90	20.00	7.70			
2505-6000121	HI GH TENS I ON CABLE	GUARDRAI L,	END ANCHOR		145.000	EACH
306,273.84	1,600.00	3,150.00	2,112.23			
2505-6000131	HI GH TENS I ON CABLE	GUARDRAI L,	SPARE		13.000	EACH
22,094.62	1,200.00	2,625.00	1,699.59			
	PARTS KI T					
2505-6000211	LOW TENS I ON CABLE	GUARDRAI L			4,155.000	LF
23,974.00	4.00	14.10	5.77			
2505-6000221	LOW TENS I ON CABLE	GUARDRAI L	END ANCHOR		10.000	EACH
12,400.00	1,000.00	1,300.00	1,240.00			
2506-4984000	FLOWABLE MORTAR				1,566.480	CY
209,786.66	86.30	1,400.00	133.92			
2507-0050005	EARTH SCREW ANCHOR				225.000	EACH
9,391.80	35.00	64.90	41.74			
2507-3250005	ENGI NEERI NG FABRI C				157,775.450	SY
361,549.61	0.95	16.00	2.29			
2507-4011100	CONCRETE GROUT FOR	REVTMENT	OR GABI ON		247.500	CY
53,715.00	150.00	285.00	217.03			
2507-6799000	BANK SHAPI NG				4.000	LS
6,600.00	700.00	2,900.00	1,650.00			
2507-6800011	REVTMENT,	CLASS A			1,106.000	SY
21,567.00	19.50	19.50	19.50			
2507-6800021	REVTMENT,	CLASS B			6,910.000	TON
272,110.20	20.00	48.50	39.38			
2507-6800042	REVTMENT,	CLASS D			7,788.200	TON
290,484.40	25.00	55.00	37.30			
2507-6800061	REVTMENT,	CLASS E			129,898.730	TON
4,040,049.53	10.45	150.00	31.10			

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2507-6825001	REVETMENT,	CONCRETE,	HAUL AND PLACE	57.000 CY
2,850.00	50.00	50.00	50.00	
2507-6825005	REVETMENT,	CONCRETE,	HAUL AND PLACE	730.000 TCN
12,919.98	14.97	20.00	17.70	
2507-6850053	REVETMENT,	SPECI AL		470.000 TCN
15,040.00	32.00	32.00	32.00	
2507-6875002	REVETMENT,	REMOVE AND REPLACE		1,430.100 CY
25,721.50	12.00	65.00	17.99	
2507-8029000	EROSI ON STONE			13,195.470 TCN
303,055.60	10.00	100.00	22.97	
2507-8500040	FABRI C FORMED CONCRETE REVETMENT,			1,314.200 SY
49,584.15	35.00	38.50	37.73	
	ARTI CULATI NG BLOCK MAT, 4 I NCH			
2507-8500060	FABRI C FORMED CONCRETE REVETMENT,			1,581.600 SY
49,419.62	27.50	35.00	31.25	
	ARTI CULATI NG BLOCK MAT, 6 I NCH			
2507-8500080	FABRI C FORMED CONCRETE REVETMENT,			1,934.900 SY
72,880.13	28.95	40.00	37.67	
	ARTI CULATI NG BLOCK MAT, 8 I NCH			
2507-8501100	CONCRETE GROUT FOR FABRI C FORMED			795.300 CY
188,187.50	120.00	285.00	236.62	
	CONCRETE REVETMENT			
2508-0804000	BRI DGE CLEANI NG FOR PAI NTI NG			15.000 LS
276,720.00	810.00	120,000.00	18,448.00	
2508-0805000	BLAST CLEANI NG OF STRUCTURAL STEEL			16.000 LS
2,055,827.00	4,950.00	617,000.00	128,489.19	
2508-0970000	CONTAI NMENT			23.000 LS
889,810.00	550.00	200,000.00	38,687.39	
2508-0990000	PAI NT WASTE TRANSPORT AND DI SPOSAL			14.000 LS
110,200.00	1,000.00	40,000.00	7,871.43	
2508-0991000	PAI NTI NG OF STRUCTURAL STEEL			24.000 LS
843,121.00	3,000.00	130,000.00	35,130.04	
2509-0000012	TEMPORARY CRASH CUSHI ON			1.000 EACH
3,500.00	3,500.00	3,500.00	3,500.00	
2510-6745030	REMOVAL OF ANCHOR LUGS			6.000 EACH
3,600.00	600.00	600.00	600.00	
2510-6745640	REMOVAL OF EXI STI NG P. C. OVERLAY			8,159.200 SY
111,164.60	6.00	15.00	13.62	
2510-6745850	REMOVAL OF PAVEMENT			1394406.987 SY
6,463,553.71	1.55	191.00	4.64	
2510-6750501	REMOVAL AND CRUSHI NG OF PAVEMENT			261,627.720 SY
658,414.61	1.00	5.06	2.52	
2510-6750600	REMOVAL OF I NTAKES AND UTI LI TY ACCESSES			471.000 EACH
236,402.90	157.86	2,300.00	501.92	

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2511-0300000	REMOVAL OF RECREATI ONAL TRAI L				16,348.300	SY
55,833.22		2.50	5.25	3.42		
2511-0301300	RECREATI ONAL TRAI L, HOT M X ASPHALT, 3				1,908.000	SY
36,538.20	I N.	19.15	19.15	19.15		
2511-0301400	RECREATI ONAL TRAI L, HOT M X ASPHALT, 4				22,710.900	SY
424,336.60	I N.	16.00	25.00	18.68		
2511-0301500	RECREATI ONAL TRAI L, HOT M X ASPHALT, 5				2,058.000	SY
72,030.00	I N.	35.00	35.00	35.00		
2511-0301600	RECREATI ONAL TRAI L, HOT M X ASPHALT, 6				23,281.600	SY
735,641.80	I N.	7.00	40.00	31.60		
2511-0302500	RECREATI ONAL TRAI L, PORTLAND CEMENT				133,771.400	SY
3,056,835.51	CONCRETE, 5 I N.	21.00	45.00	22.85		
2511-0302600	RECREATI ONAL TRAI L, PORTLAND CEMENT				105,340.300	SY
2,415,989.15	CONCRETE, 6 I N.	20.57	67.00	22.94		
2511-0302700	RECREATI ONAL TRAI L, PORTLAND CEMENT				2,227.100	SY
55,578.66	CONCRETE, 7 I N.	24.41	29.45	24.96		
2511-0302800	RECREATI ONAL TRAI L, PORTLAND CEMENT				2,303.560	SY
89,617.25	CONCRETE, 8 I N.	29.53	75.00	38.90		
2511-0310100	SPECI AL COMPACTI ON OF SUBGRADE FOR				1,169.640	STA
141,071.66	RECREATI ONAL TRAI L	25.04	700.00	120.61		
2511-6745900	REMOVAL OF SI DEWALK				33,656.990	SY
255,281.12		2.00	120.00	7.58		
2511-7526004	SI DEWALK, P. C. CONCRETE, 4 I N.				40,099.810	SY
1,188,818.36		22.00	185.00	29.65		
2511-7526005	SI DEWALK, P. C. CONCRETE, 5 I N.				23,443.300	SY
729,682.65		25.00	102.00	31.13		
2511-7526006	SI DEWALK, P. C. CONCRETE, 6 I N.				13,253.080	SY
559,003.00		25.00	165.00	42.18		
2511-7526008	SI DEWALK, P. C. CONCRETE, 8 I N.				382.410	SY
18,873.75		32.00	120.00	49.35		
2511-7526106	SI DEWALK, REI NFORCED P. C. CONCRETE, 6				822.500	SY
31,658.50	I N.	35.00	200.00	38.49		
2511-7528100	DETECTABLE VARNI NGS FOR CURB RAMPS				17,885.200	SF
561,411.77		3.00	150.00	31.39		
2512-1725156	CURB AND GUTTER, P. C. CONCRETE, 1.5 FT.				8,353.000	LF

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187,689.95	18.00	55.00	22.47		
2512-1725206	CURB AND GUTTER, P. C.	CONCRETE,	2.0 FT.	8,050.000	LF
201,335.15	13.00	50.00	25.01		
2512-1725256	CURB AND GUTTER, P. C.	CONCRETE,	2.5 FT.	21,811.900	LF
521,720.84	18.00	52.50	23.92		
2512-1725306	CURB AND GUTTER, P. C.	CONCRETE,	3.0 FT.	4,014.200	LF
84,400.40	16.25	42.00	21.03		
2512-1725356	CURB AND GUTTER, P. C.	CONCRETE,	3.5 FT.	1,377.600	LF
47,705.80	25.00	36.00	34.63		
2512-1725406	CURB AND GUTTER, P. C.	CONCRETE,	4.0 FT.	831.000	LF
17,487.00	21.00	30.00	21.04		
2512-1725456	CURB AND GUTTER, P. C.	CONCRETE,	4.5 FT.	2,195.000	LF
76,825.00	35.00	35.00	35.00		
2512-1725506	CURB AND GUTTER, P. C.	CONCRETE,	5.0 FT.	223.000	LF
8,362.50	37.50	37.50	37.50		
2512-1725556	CURB AND GUTTER, P. C.	CONCRETE,	5.5 FT.	11,909.000	LF
285,816.00	24.00	24.00	24.00		
2512-1750006	CURB AND GUTTER, P. C.	CONCRETE,	AS PER	285.000	LF
13,466.25	47.25	47.25	47.25		
	PLAN				
2512-1859000	CURB, SPECI AL, AS PER PLAN			2,746.100	LF
40,701.00	10.00	16.00	14.82		
2513-0001020	CONCRETE BARRI ER, BA-102			481.900	LF
76,247.61	115.00	159.90	158.22		
2513-0001050	CONCRETE BARRI ER, BA-105			7.000	EACH
13,181.00	1,325.00	1,976.00	1,883.00		
2513-0001070	CONCRETE BARRI ER RAI L, BA-107			7.000	EACH
11,953.00	1,465.00	1,748.00	1,707.57		
2513-0001080	CONCRETE BARRI ER RAI L, BA-108			10.000	EACH
36,000.00	2,500.00	5,000.00	3,600.00		
2513-0471000	CONCRETE BARRI ER, APPROACH, AS PER PLAN			3.000	EACH
15,750.00	3,750.00	6,000.00	5,250.00		
2513-0471001	CONCRETE BARRI ER, APPROACH, MODI FI ED			4.000	EACH
24,400.00	6,100.00	6,100.00	6,100.00		
2513-0471046	CONCRETE BARRI ER, APPROACH, RE-46			9.000	EACH
26,764.56	1,700.00	3,500.00	2,973.84		
2513-0473441	CONCRETE BARRI ER, RE-44A			7,789.500	LF
451,791.00	58.00	58.00	58.00		
2513-0473443	CONCRETE BARRI ER, RE-44C			1,598.700	LF
90,326.55	56.50	56.50	56.50		
2513-0473445	CONCRETE BARRI ER, RE-44E			2,039.800	LF
95,666.60	42.00	65.00	46.90		

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2513-0473446	CONCRETE BARRI ER, RE-44F	47.50	47.50	47.50	4,470.000 LF
212,325.00					
2513-0473448	CONCRETE BARRI ER, RE-44H	1,600.00	1,600.00	1,600.00	2.000 EACH
3,200.00					
2513-0474990	CONCRETE BARRI ER, REI NFORCED, AS PER PLAN	140.70	475.00	160.01	936.700 LF
149,879.32					
2513-0475000	CONCRETE BARRI ER TRANSI TI ON SECTI ON	1,500.00	1,500.00	1,500.00	9.000 EACH
13,500.00					
2515-2475005	DRI VEWAY, P. C. CONCRETE, 5 I N.	20.20	50.00	28.47	941.000 SY
26,792.00					
2515-2475006	DRI VEWAY, P. C. CONCRETE, 6 I N.	26.50	107.00	38.69	18,212.350 SY
704,608.59					
2515-2475007	DRI VEWAY, P. C. CONCRETE, 7 I N.	26.50	54.00	39.69	11,933.030 SY
473,566.42					
2515-2475008	DRI VEWAY, P. C. CONCRETE, 8 I N.	30.00	77.00	39.53	9,933.260 SY
392,636.92					
2515-2475009	DRI VEWAY, P. C. CONCRETE, 9 I N.	46.51	47.99	47.56	3,883.000 SY
184,684.61					
2515-6745600	REMOVAL OF PAVED DRI VEWAY	3.15	74.00	6.24	49,089.740 SY
306,233.59					
2516-6745375	REMOVAL OF CONCRETE STEPS	442.00	925.00	489.04	11.500 CY
5,624.00					
2516-6745877	REMOVAL OF RETAI NI NG WALLS AND FOOTI NGS	550.00	21,400.00	6,263.75	8.000 LS
50,110.00					
2516-7825000	P. C. CONCRETE STEPS	750.00	1,000.00	776.33	10.800 CY
8,384.37					
2516-8625000	COMBI NED CONCRETE SI DEWALK AND RETAI NI NG WALL	500.00	2,000.00	633.82	163.870 CY
103,863.54					
2516-8725000	P. C. CONCRETE RETAI NI NG WALL	627.50	1,005.00	693.90	276.240 CY
191,683.70					
2516-8725006	LI MESTONE RETAI NI NG WALL, AS PER PLAN	36.00	36.00	36.00	1,110.000 SF
39,960.00					
2516-8725065	SPECI AL RETAI NI NG WALL, AS PER PLAN	21.00	44.40	28.23	463.000 SF
13,069.20					
2517-4225210	RAI LROAD APPROACH SECTI ON, P. C. C.	46.00	105.00	87.67	392.640 SY
34,422.00					
2517-4225220	RAI LROAD APPROACH SECTI ON, HMA	275.00	275.00	275.00	48.800 SY
13,420.00					
2518-0470005	CROSSOVER BARRI CADE	3,600.00	3,600.00	3,600.00	1.000 EACH
3,600.00					
2518-6765001	REMOVE AND REI NSTALL CROSSOVER				4.000 EACH

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5, 000. 00	750. 00	2, 750. 00	1, 250. 00	BARRI CADES
2518- 6890032	ROAD CLOSURE (URBAN) ,	PERMANENT,	RE- 3B	12. 000 EACH
9, 523. 70	530. 00	970. 00	793. 64	
2518- 6891810	PERMANENT ROAD CLOSURE,	RURAL,	SI - 181	32. 000 LF
2, 720. 00	85. 00	85. 00	85. 00	
2518- 6891820	PERMANENT ROAD CLOSURE,	URBAN,	SI - 182	3. 000 EACH
1, 930. 00	600. 00	730. 00	643. 33	
2518- 6910000	SAFETY CLOSURE			1, 540. 000 EACH
215, 197. 30	10. 00	695. 00	139. 74	
2519- 1001000	FENCE, CHAI N LI NK,	VI NYL COATED		12, 876. 000 LF
195, 346. 12	12. 96	52. 00	15. 17	
2519- 1002042	FENCE, CHAI N LI NK,	42 I N. HEI GHT		40. 000 LF
1, 200. 00	30. 00	30. 00	30. 00	
2519- 1002048	FENCE, CHAI N LI NK,	48 I N. HEI GHT		410. 000 LF
6, 835. 00	16. 30	17. 25	16. 67	
2519- 1002060	FENCE, CHAI N LI NK,	60 I N. HEI GHT		486. 500 LF
12, 162. 50	25. 00	25. 00	25. 00	
2519- 1002072	FENCE, CHAI N LI NK,	72 I N. HEI GHT		4, 873. 200 LF
77, 121. 71	3. 30	43. 00	15. 83	
2519- 1002096	FENCE, CHAI N LI NK,	96 I N. HEI GHT		207. 200 LF
11, 112. 14	53. 63	53. 63	53. 63	
2519- 1002120	FENCE, CHAI N LI NK,	120 I N. HEI GHT		1, 600. 000 LF
31, 533. 00	18. 40	27. 50	19. 71	
2519- 1003072	FENCE, CHAI N LI NK W TH SECURI TY TOP,	72		181. 000 LF
3, 511. 40	19. 40	19. 40	19. 40	I N. HEI GHT
2519- 1004072	FENCE, CHAI N LI NK,	72 I N. HEI GHT, ON		445. 000 LF
15, 395. 81	33. 19	35. 00	34. 60	WALL
2519- 1010010	FENCE, REMOVE AND REI NSTALL CHAI N LI NK,			4, 110. 000 LF
49, 678. 85	9. 00	47. 00	12. 09	AS PER PLAN
2519- 1010020	REMOVAL OF CHAI N LI NK FENCE,	AS PER PLAN		17, 850. 000 LF
39, 135. 42	1. 15	10. 00	2. 19	
2519- 2000010	FENCE, CHANNEL CROSSI NG,	TYPE A		301. 000 LF
3, 125. 50	10. 00	11. 75	10. 38	
2519- 3280000	FENCE, FI EL D			29, 737. 000 LF
123, 687. 10	0. 00	25. 00	4. 16	
2519- 3280510	REMOVE AND REI NSTALL FI EL D FENCE			3, 558. 000 LF
27, 654. 15	3. 80	32. 15	7. 77	
2519- 3300400	FI EL D FENCE BRACE PANELS			265. 000 EACH
36, 319. 64	101. 00	309. 66	137. 06	

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2519-3300600	FENCE, SAFETY				23,444.000	LF
63,118.42	0.10	15.00	2.69			
2519-3700000	GATE, AS PER PLAN				29.000	EACH
9,990.00	300.00	1,590.00	344.48			
2519-3710014	GATE, SINGLE CHAIN LINK ASSEMBLY, 14 FT.				2.000	EACH
11.50	5.75	5.75	5.75			
2519-3711600	GATE ASSEMBLY, CHAIN LINK, 16 FT.				2.000	EACH
1,434.00	717.00	717.00	717.00			
2519-3750012	GATE, FIELD FENCE, 12 FT.				23.000	EACH
5,860.00	200.00	300.00	254.78			
2519-3750016	GATE, FIELD FENCE, 16 FT. (RC-8A)				2.000	EACH
900.00	450.00	450.00	450.00			
2519-3750017	GATE, FIELD FENCE, 16 FT.				15.000	EACH
4,475.00	275.00	300.00	298.33			
2519-3750024	GATE, FIELD FENCE, 24 FT.				1.000	EACH
400.00	400.00	400.00	400.00			
2519-3760000	ENTRANCE BOLLARD				28.000	EACH
9,060.00	200.00	430.00	323.57			
2520-3350010	FIELD LABORATORY				18.000	EACH
68,182.00	500.00	10,000.00	3,787.89			
2520-3350015	FIELD OFFICE				27.000	EACH
141,225.00	1,500.00	10,000.00	5,230.56			
2522-8929100	LIGHTING TOWER, 100 FT.				5.000	EACH
120,000.00	24,000.00	24,000.00	24,000.00			
2522-8930230	LUMINAIRE, TOWER FLOODLIGHTING				50.000	EACH
35,000.00	700.00	700.00	700.00			
2523-0000100	LIGHTING POLES				518.000	EACH
1,279,277.96	656.00	5,426.00	2,469.65			
2523-0000200	ELECTRICAL CIRCUITS				159,944.000	LF
1,363,167.34	4.14	87.00	8.52			
2523-0000310	HANDHOLES AND JUNCTION BOXES				790.000	EACH
381,670.74	165.00	2,600.00	483.13			
2523-0000400	CONTROL CABINET				46.000	EACH
217,092.18	2,829.00	6,515.00	4,719.40			
2523-0000500	UNDER DECK LIGHTING (RM 41)				5.000	EACH
2,805.00	325.00	1,230.00	561.00			
2523-6765009	REMOVE AND REINSTALL LIGHT POLE AND LUMINAIRE				40.000	EACH
66,810.85	720.00	5,000.00	1,670.27			
2524-6765010	REMOVE AND REINSTALL SIGN AS PER PLAN				296.000	EACH
61,826.60	70.00	720.00	208.87			
2524-6765015	REMOVE AND REINSTALL DELINEATOR POSTS				17.000	EACH
1,301.35	76.55	76.55	76.55			

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2524-9081260	CONCRETE FOOTI NG FOR BREAKAWAY SI GN	236.000	EACH
108,540.30	250.00 798.38 459.92 POST, 2' - 0" DI A. X 6' - 0"		
2524-9081275	CONCRETE FOOTI NG FOR BREAKAWAY SI GN	169.000	EACH
127,520.60	560.00 960.05 754.56 POST, 2' - 8" DI A. X 7' - 6"		
2524-9081290	CONCRETE FOOTI NG FOR BREAKAWAY SI GN	139.000	EACH
123,563.20	635.00 1,212.00 888.94 POST, 2' - 8" DI A. X 9' - 0"		
2524-9089100	DELI NEATOR, RI GI D - TYPE I	161.000	EACH
7,195.00	35.00 100.00 44.69		
2524-9089110	DELI NEATOR, RI GI D - TYPE I A	567.000	EACH
25,144.76	42.00 45.23 44.35		
2524-9089200	DELI NEATOR, RI GI D - TYPE II	72.000	EACH
3,040.00	40.00 80.00 42.22		
2524-9090001	DELI NEATORS, AS PER PLAN	16.000	EACH
1,447.50	52.50 120.00 90.47		
2524-9090010	DELI NEATORS, SI NGLE WHI TE (RE-7)	613.000	EACH
24,796.00	36.00 48.00 40.45		
2524-9090011	DELI NEATORS, DOUB LE WHI TE (RE-7)	17.000	EACH
850.00	50.00 50.00 50.00		
2524-9090021	DELI NEATORS, DOUB LE YELLOW	22.000	EACH
946.00	43.00 43.00 43.00		
2524-9100020	OBJECT MARKER, TYPE 2	90.000	EACH
6,750.40	40.00 170.00 75.00		
2524-9100030	OBJECT MARKER, TYPE 3	24.000	EACH
3,970.76	85.00 300.00 165.45		
2524-9130011	GUI DANCE MARKER, CHEVRON W- 8 (SPECI AL)	17.000	EACH
5,885.00	345.00 350.00 346.18		
2524-9210005	M LEPOST MARKERS, D10- 3A	69.000	EACH
8,775.00	120.00 150.00 127.17		
2524-9265010	POSTS, STEEL, AS PER PLAN	238.000	EACH
40,167.59	100.00 575.00 168.77		
2524-9275100	WOOD POSTS FOR TYPE A OR B SI GNS, 4 I N.	4,691.500	LF
50,181.45	3.50 33.33 10.70 X 4 I N.		
2524-9275222	WOOD POSTS FOR TYPE A OR B SI GNS, 4 I N.	9,602.000	LF
72,286.82	3.50 12.29 7.53 X 6 I N.		
2524-9281090	STEEL BREAKAWAY SI GN POSTS FOR TYPE A OR	30.000	LF
1,500.00	50.00 50.00 50.00 B SI GNS, W 6 X 9		
2524-9281121	STEEL BREAKAWAY SI GN POSTS FOR TYPE A OR	1,495.000	LF
33,936.50	22.70 22.70 22.70		

	B SI GNS, W 6 X 12			
2524-9281210	STEEL BREAKAWAY SI GN POSTS FOR TYPE A OR	1,350.152	LF	
59,077.14	40.83 50.00 43.76			
	B SI GNS, W 8 X 21			
2524-9281426	STEEL BREAKAWAY SI GN POSTS FOR TYPE A OR	1,032.373	LF	
53,887.92	50.00 75.75 52.20			
	B SI GNS, W 12 X 26			
2524-9290000	SI GNI NG	1.000	LS	
8,200.00	8,200.00 8,200.00 8,200.00			
2524-9290006	MODI FI CATI ON OF EXI STI NG SI GNS	3.000	EACH	
472.50	157.50 157.50 157.50			
2524-9290009	SI GN MOUNTI NG BRACKETS, SPECI AL	2,511.000	EACH	
34,705.06	13.55 128.00 13.82			
2524-9325001	TYPE A SI GNS, SHEET ALUM NUM	4,055.250	SF	
95,354.43	15.00 155.00 23.51			
2524-9325005	TYPE A SI GNS, GALVANI ZED STEEL	24.000	SF	
660.00	27.50 27.50 27.50			
2524-9380001	TYPE B SI GNS, EXTRUDED ALUM NUM	13,804.000	SF	
244,369.04	15.00 31.50 17.70			
	STRUCTURAL PANEL			
2524-9700000	SI GN, I NSTALL ONLY	391.000	EACH	
13,965.70	30.00 155.00 35.72			
2525-0000100	TRAFFI C SI GNALI ZATI ON	37.000	LS	
5,879,541.37	300.00 530,740.22 158,906.52			
2525-0000120	REMOVAL OF TRAFFI C SI GNALI ZATI ON	13.000	LS	
60,764.64	770.00 10,000.00 4,674.20			
2525-0000200	LOOP DETECTORS (ADDI TI ON OR REPLACEMENT	178.000	EACH	
169,618.60	745.00 1,800.00 952.91			
	TO AN EXI STI NG TRAFFI C SI GNAL SYSTEM)			
2526-8285000	CONSTRUCTI ON SURVEY	153.000	LS	
1,109,173.93	100.00 75,000.00 7,249.50			
2526-8286000	GLOBAL POSTI ONI NG SYSTEM (GPS) MACHI NE	2.000	LS	
22,500.00	2,500.00 20,000.00 11,250.00			
	CONTROL GRADI NG			
2527-8400065	TEMPORARY DELI NEATORS	60.000	EACH	
1,200.00	20.00 20.00 20.00			
2527-9263005	RAI SED PAVEMENT MARKERS	3,754.000	EACH	
9,625.02	1.80 3.09 2.56			
2527-9263109	PAI NTED PAVEMENT MARKI NG, WATERBORNE OR	141,892.498	STA	
1,931,826.23	6.25 700.00 13.61			
	SOLVENT-BASED			
2527-9263112	PAI NTED PAVEMENT MARKI NGS, HI GHBUI LD	1,498.100	STA	
19,734.92	11.20 87.00 13.17			
	WATERBORNE			

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2527-9263117	PAI NTED PAVEMENT MARKI NGS, DURABLE	32.47	2,390.00	83.77	3,563.160 STA
298,499.50					
2527-9263124	PERMANENT TAPE MARKI NGS, PREFORMED	416.85	470.80	436.97	38.270 STA
16,722.72	POLYMER MARKI NG MATERI AL				
2527-9263126	PERMANENT TAPE MARKI NGS, PROFI LED	273.00	425.00	298.10	580.801 STA
173,138.01	PAVEMENT MARKI NG TAPE				
2527-9263128	PERMANENT TAPE MARKI NGS, I NTERSECTI ON	315.00	407.00	372.79	127.950 STA
47,698.45	MARKI NG TAPE				
2527-9263130	REMOVABLE TAPE MARKI NGS	28.00	300.00	102.25	2,329.360 STA
238,167.71					
2527-9263137	PAI NTED SYMBOLS AND LEGENDS, WATERBORNE	13.00	346.50	81.68	1,071.000 EACH
87,480.93	OR SOLVENT- BASED				
2527-9263138	PAI NTED SYMBOLS AND LEGENDS, HI GHBUI LD	100.00	100.00	100.00	4.000 EACH
400.00	WATERBORNE				
2527-9263143	PAI NTED SYMBOLS AND LEGENDS, DURABLE	85.00	789.00	208.30	292.000 EACH
60,822.80					
2527-9263152	PRE- CUT SYMBOLS AND LEGENDS, REGULAR	140.00	140.00	140.00	18.000 EACH
2,520.00	MARKI NG TAPE				
2527-9263154	PRE- CUT SYMBOLS AND LEGENDS, PREFORMED	526.90	526.90	526.90	4.000 EACH
2,107.60	POLYMER MARKI NG MATERI AL				
2527-9263156	PRE- CUT SYMBOLS AND LEGENDS, PROFI LED	365.00	450.00	368.82	89.000 EACH
32,825.00	PAVEMENT MARKI NG TAPE				
2527-9263158	PRE- CUT SYMBOLS AND LEGENDS,	335.00	478.50	420.18	111.000 EACH
46,639.50	I NTERSECTI ON MARKI NG TAPE				
2527-9263180	PAVEMENT MARKI NGS REMOVED	1.00	1,110.00	21.44	16,054.010 STA
344,182.16					
2527-9263190	SYMBOLS AND LEGENDS REMOVED	20.00	103.00	76.30	307.000 EACH
23,425.50					
2527-9270111	GROOVES CUT FOR PAVEMENT MARKI NGS	13.81	35.00	17.29	7,628.010 STA
131,891.24					
2527-9270120	GROOVES CUT FOR SYMBOLS AND LEGENDS	60.00	125.00	90.79	104.000 EACH
9,442.00					
2528-3800000	MODULAR GLARE SCREEN SYSTEM	4.00	7.75	5.50	91,373.500 LF
502,236.06					
2528-4983200	MONI TORI NG W TH I NCI DENT RESPONSE	909.00	1,100.00	993.72	715.000 CDAY
710,510.00					

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2528-5160000	NO EXCUSE ROAD OPENING BONUS,				8.000	LS
1,295,000.00	20,000.00	450,000.00	161,875.00			
2528-5160100	CRI TI CAL CLOSURE ACTI VI TY I NCENTI VE				60.000	CDAY
240,000.00	4,000.00	4,000.00	4,000.00			
	PAYMENT (OR DI SI NCENTI VE ASSESSMENT)					
2528-8400048	TEMPORARY BARRI ER RAI L, CONCRETE				314,184.400	LF
2,718,875.55	2.36	49.00	8.65			
2528-8400049	TEMPORARY BARRI ER RAI L, STEEL				1,800.000	LF
28,800.00	16.00	16.00	16.00			
2528-8400055	TEMPORARY TO PERMANENT BARRI ER				24.000	EACH
57,631.36	1,000.00	3,240.68	2,401.31			
	CONNECTI ON					
2528-8400157	TEMPORARY FLOODLI GHTI NG LUM NAI RE				199.000	EACH
565,884.22	1,224.81	5,900.00	2,843.64			
2528-8400256	TEMPORARY TRAFFI C SI GNALS				45.000	EACH
259,795.00	1,500.00	24,000.00	5,773.22			
2528-8445110	TRAFFI C CONTROL				853.000	LS
5,265,424.86	0.00	115,000.00	6,172.83			
2528-8445112	FLAGGERS				8,787.000	DAY
2,647,550.00	295.00	560.00	301.30			
2528-8445113	FLAGGERS				7,620.000	EACH
2,257,050.00	295.00	600.00	296.20			
2528-8445114	PI LOT CARS				2,262.000	DAY
1,026,340.00	445.00	840.00	453.73			
2528-8445115	PI LOT CARS				1,630.000	EACH
729,900.00	445.00	900.00	447.79			
2528-9109010	MODULAR LANE SEPARATOR SYSTEM				11,681.000	LF
146,636.25	8.25	16.25	12.55			
2528-9109020	TEMPORARY LANE SEPARATOR SYSTEM				4,744.000	LF
38,284.00	6.60	11.00	8.07			
2528-9290004	CHANGEABLE MESSAGE SI GNS, PORTABLE				490.000	CDAY
34,530.00	10.00	2,000.00	70.47			
2529-0400057	HOT M X ASPHALT (COMPOSI TE SECTI ON)				214.400	TCN
42,880.00	200.00	200.00	200.00			
2529-2242304	CD JOI NT ASSEMBLY				2,635.000	EACH
290,477.19	80.00	300.00	110.24			
2529-2242320	CT JOI NT				931.000	EACH
122,991.00	75.00	250.00	132.11			
2529-5070110	PATCHES, FULL- DEPTH FI NI SH, BY AREA				120,015.870	SY
10,765,119.53	46.74	260.82	89.70			
2529-5070120	PATCHES, FULL- DEPTH FI NI SH, BY COUNT				8,858.000	EACH
1,360,888.74	32.00	1,500.00	153.63			
2529-8174010	SUBBASE (PATCHES)				27,401.390	SY

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308,496.47	5.87	50.00	11.26	
2529-8201000	JOI NT ASSEMBLY, EF			174.000 EACH
78,865.00	250.00	630.00	453.25	
2529-8202000	RUMBLE STRI P PANEL (I N FULL DEPTH PATCH)			25.000 EACH
11,200.00	350.00	600.00	448.00	
2530-0400061	HOT M X ASPHALT (PARTI AL DEPTH PATCH			13,718.460 TON
1,360,473.88	50.00	300.00	99.17	
	MATERI AL)			
2530-5070210	PATCHES, PARTI AL- DEPTH P. C. C. FI NI SH			1,227.000 SF
28,758.00	22.00	50.00	23.44	
2530-5070221	REGULAR PARTI AL DEPTH HOT M X ASPHALT			44,269.940 SY
1,729,153.01	12.36	300.00	39.06	
	FI NI SH PATCHES, BY AREA			
2530-5070231	I RREGULAR PARTI AL DEPTH HOT M X ASPHALT			1,231.900 SY
84,528.25	48.75	133.00	68.62	
	FI NI SH PATCHES, BY AREA			
2531-5200020	PAVEMENT SURFACE REPAI R (M LLI NG GRAVEL)			11,200.000 SY
28,000.00	2.50	2.50	2.50	
2532-5200001	PAVEMENT SURFACE REPAI R (GRI NDI NG			28,921.060 SY
97,765.91	1.85	4.55	3.38	
	LI MESTONE)			
2533-4980005	MOBI LI ZATI ON			879.000 LS
26,455,190.31	0.00	1420000.00	30,096.92	
2535-2000440	MODULAR BLOCK RETAI NI NG WALL			12.580 SF
314.50	25.00	25.00	25.00	
2535-2000460	SEGMENTAL RETAI NI NG WALL			8,689.000 SF
142,327.09	15.49	20.30	16.38	
2536-6745045	REMOVAL OF ASBESTOS			6.000 LS
106,600.00	1,500.00	95,000.00	17,766.67	
2537-8900000	REME DI ATI ON OF PETROLEUM CONTAM NATED			90.000 CY
9,000.00	100.00	100.00	100.00	
	SOI L			
2537-8900100	SAMPLI NG AND TESTI NG FOR PETROLEUM			6.000 EACH
3,000.00	500.00	500.00	500.00	
	CONTAM NATI ON (WATER AND SOI L SAMPLES			
	FOEDI ATI ON OF PETROLEUM CONTAM NATED SOI			
2537-8900500	AMENDED SOI L			1,182.000 CY
42,459.45	30.00	38.80	35.92	
2538-6970000	SALVAGE, REMOVAL, AND DI SPOSAL OF			48.000 LS
432,147.50	2,750.00	63,400.00	9,003.07	
	OBSTRUCTI ONS ON PARCEL NO.			
2538-6970010	SALVAGE, REMOVAL, AND DI SPOSAL OF			1.000 LS
15,000.00	15,000.00	15,000.00	15,000.00	
	OBSTRUCTI ONS			
2538-6975110	SEALI NG WELLS			2.000 EACH

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650.00	325.00	325.00	325.00	
2539-6500000	RAW POLYURETHANE MATERI AL			6,000.000 LB
36,000.00	6.00	6.00	6.00	
2540-4480507	LONGI TUDI NAL JOI NT REPAI R			65,159.000 LF
345,317.99	3.28	16.85	5.30	
2541-1003001	SAW NG AND SEALI NG JOI NTS (HMA SURFACES)			3,642.600 LF
13,659.75	3.75	3.75	3.75	
2541-1004011	CRACK AND JOI NT CLEANI NG AND SEALI NG			340.630 M LE
345,103.32	337.57	10,967.61	1,013.13	
	(HMA SURFACES)			
2541-1005001	SEALER MATERI AL (HMA SURFACES)			556,758.000 LB
556,758.00	1.00	1.00	1.00	
2542-1006010	CRACK AND JOI NT CLEANI NG AND SEALI NG			47.135 M LE
498,589.10	7,145.00	45,000.00	10,577.90	
	(PCC PAVEMENT)			
2542-1007000	SEALER MATERI AL (PCC PAVEMENT)			71,183.110 LB
71,183.11	1.00	1.00	1.00	
2543-1000000	TRANSVERSE JOI NT REPAI R			156.160 TON
47,835.71	279.47	387.00	306.32	
2543-1000110	TRANSVERSE JOI NT CLEANI NG AND SEALI NG			18.490 M LE
73,364.80	3,343.00	7,964.09	3,967.81	
2543-1000120	TRANSVERSE JOI NT LEVELI NG			109,091.000 LB
68,991.65	0.52	0.65	0.63	
2544-1001100	CLEANI NG AND FI LLI NG CRACKS (PAVEMENT			347.628 M LE
830,719.63	498.00	8,926.95	2,389.68	
	MAI NTENANCE)			
2544-1001200	CLEANI NG AND FI LLI NG CRACKS (SHOULDER			16.400 M LE
11,624.81	672.10	934.00	708.83	
	MAI NTENANCE)			
2544-1002010	HOT M X ASPHALT FOR CRACK FI LLI NG			46.700 TON
10,860.00	80.00	500.00	232.55	
2544-1003000	FI LLER MATERI AL (MAI NTENANCE)			117,170.700 GAL
298,917.17	2.10	4.50	2.55	
2546-1000100	GABI ONS OR MATTRESSES			118.000 CY
10,186.60	48.60	285.00	86.33	
2548-0000100	M LLED SHOULDER RUMBLE STRI PS, HMA			14,490.090 STA
186,156.63	6.00	2,449.61	12.85	
	SURFACE			
2548-0000200	M LLED SHOULDER RUMBLE STRI PS, PCC			2,097.820 STA
38,396.12	12.50	1,000.00	18.30	
	SURFACE			
2549-0001036	PI PE LI NI NG, RESI N, CURED-I N-PLACE, LESS			321.200 LF
61,028.00	190.00	190.00	190.00	
	THAN OR EQUAL TO 36 I N. DI A. OR HEI GHT			

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2549-0001037	PI PE LI NI NG, RESI N, CURED- I N- PLACE,	250.00	250.00	250.00	150.700 LF
37,675.00	GREATER THAN 36 I N. DI A. OR HEI GHT				
2549-0004036	PI PE LI NI NG, SLI PLI NI NG, LESS THAN OR	100.00	100.00	100.00	2,945.000 LF
294,500.00	EQUAL TO 36 I N. DI A. OR HEI GHT				
2549-0006100	BUI LDI NG SANI TARY SEWER SERVI CE	875.00	875.00	875.00	29.000 EACH
25,375.00	RECONNECTI ON				
2549-0006210	SPOT REPAI R BY PI PE REPLACEMENT, BY	1,800.00	1,800.00	1,800.00	2.000 EACH
3,600.00	COUNT				
2549-0006220	SPOT REPAI R BY PI PE REPLACEMENT, BY	180.00	180.00	180.00	20.000 LF
3,600.00	LI NEAR FOOT				
2549-0006310	RUBBER CHI MNEY SEAL	550.00	630.00	561.43	14.000 EACH
7,860.00					
2551-0000110	TEMP CRASH CUSHI ON	855.00	3,250.00	1,659.08	205.000 EACH
340,112.26					
2551-0000120	TEMP CRASH CUSHI ON, REDI RECTI VE (R)	2,400.00	2,400.00	2,400.00	12.000 EACH
28,800.00					
2551-0000130	TEMP CRASH CUSHI ON, SEVERE USE (SU)	2,100.00	8,000.00	3,862.50	8.000 EACH
30,900.00					
2551-0000230	PERMANENT CRASH CUSHI ON, SEVERE USE (SU)	19,100.00	22,000.00	19,716.67	6.000 EACH
118,300.00					
2551-0000300	PERMANENT CRASH CUSHI ON SPARE PARTS KI T	500.00	1,800.00	833.33	6.000 EACH
5,000.00					
2552-0000140	ROCK EXCAVATI ON	60.00	60.00	60.00	127.000 CY
7,620.00					
2552-0000210	TRENCH FOUNDATI ON	15.78	19.87	17.25	156.000 TCN
2,690.72					
2552-0000300	TRENCH COMPACTI ON TESTI NG	3,000.00	15,000.00	7,333.33	3.000 LS
22,000.00					
2554-0112004	WATER MAI N, TRENCHED, DUCTI LE I RON PI PE	34.95	34.95	34.95	90.000 LF
3,145.50	(DI P), 4 I N.				
2554-0112006	WATER MAI N, TRENCHED, DUCTI LE I RON PI PE	30.00	53.30	43.16	949.000 LF
40,961.38	(DI P), 6 I N.				
2554-0112008	WATER MAI N, TRENCHED, DUCTI LE I RON PI PE	36.82	100.00	44.42	2,744.000 LF
121,877.48	(DI P), 8 I N.				
2554-0112010	WATER MAI N, TRENCHED, DUCTI LE I RON PI PE	75.00	75.00	75.00	35.000 LF
2,625.00	(DI P), 10 I N.				

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2554-0112012	594,045.90	WATER MAIN, TRENCHED, (DI P), 12 I N.	39.48 100.10 54.32	DUCTILE IRON PIPE 10,936.000 LF
2554-0112016	10,725.00	WATER MAIN, TRENCHED, (DI P), 16 I N.	165.00 165.00 165.00	DUCTILE IRON PIPE 65.000 LF
2554-0112020	65,625.00	WATER MAIN, TRENCHED, (DI P), 20 I N.	75.00 75.00 75.00	DUCTILE IRON PIPE 875.000 LF
2554-0114004	897.00	WATER MAIN, TRENCHED, PIPE (PVC), 4 I N.	29.90 29.90 29.90	POLYVINYL CHLORIDE 30.000 LF
2554-0114006	10,784.00	WATER MAIN, TRENCHED, PIPE (PVC), 6 I N.	19.00 120.00 37.97	POLYVINYL CHLORIDE 284.000 LF
2554-0114008	78,534.00	WATER MAIN, TRENCHED, PIPE (PVC), 8 I N.	13.00 95.00 32.71	POLYVINYL CHLORIDE 2,401.000 LF
2554-0114012	129,073.50	WATER MAIN, TRENCHED, PIPE (PVC), 12 I N.	18.50 88.37 26.30	POLYVINYL CHLORIDE 4,907.000 LF
2554-0114016	29,536.00	WATER MAIN, TRENCHED, PIPE (PVC), 16 I N.	38.00 320.00 53.60	POLYVINYL CHLORIDE 551.000 LF
2554-0124008	87,940.00	WATER MAIN, TRENCHLESS, CHLORIDE PIPE (PVC), 8 I N.	60.00 142.00 66.17	POLYVINYL 1,329.000 LF
2554-0134012	36,820.00	WATER MAIN WITH CASING PIPE, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 12 I N.	131.50 131.50 131.50	POLYVINYL CHLORIDE PIPE (PVC), 12 I N. 280.000 LF
2554-0142012	152,820.00	WATER MAIN WITH CASING PIPE, TRENCHLESS, DUCTILE IRON PIPE (DI P), 12 I N.	212.25 212.25 212.25	DUCTILE IRON PIPE (DI P), 12 I N. 720.000 LF
2554-0202200	31,555.00	FITTINGS BY COUNT,	300.00 1,440.00 595.38	DUCTILE IRON, 53.000 EACH
2554-0203000	142,836.38	FITTINGS BY WEIGHT,	1.60 10.00 5.11	DUCTILE IRON 27,956.000 LB
2554-0204107	98,473.33	WATER SERVICE STUB, COPPER, 3/4 I N.	942.61 2,015.00 1,262.48	COPPER, 3/4 I N. 78.000 EACH
2554-0204110	61,547.20	WATER SERVICE STUB, COPPER, 1 I N.	715.00 3,800.00 1,367.72	COPPER, 1 I N. 45.000 EACH
2554-0204115	19,750.00	WATER SERVICE STUB, COPPER, 1-1/2 I N.	1,600.00 2,400.00 1,795.45	COPPER, 1-1/2 I N. 11.000 EACH
2554-0204120	5,978.20	WATER SERVICE STUB, COPPER, 2 I N.	1,689.10 2,600.00 1,992.73	COPPER, 2 I N. 3.000 EACH
2554-0207004		VALVE, GATE, DI P, 4 I N.		8.000 EACH

5,505.50	600.00	765.50	688.19	
2554-0207006	VALVE, GATE, DI P, 6 I N.			32.000 EACH
27,112.68	805.68	1,055.00	847.27	
2554-0207008	VALVE, GATE, DI P, 8 I N.			41.000 EACH
40,728.73	775.00	1,450.00	993.38	
2554-0207010	VALVE, GATE, DI P, 10 I N.			1.000 EACH
1,500.00	1,500.00	1,500.00	1,500.00	
2554-0207012	VALVE, GATE, DI P, 12 I N.			52.000 EACH
90,085.76	865.00	2,000.00	1,732.42	
2554-0208006	TAPPI NG VALVE ASSEMBLY, 6 I N.			5.000 EACH
15,080.00	2,815.00	3,100.00	3,016.00	
2554-0208008	TAPPI NG VALVE ASSEMBLY, 8 I N.			3.000 EACH
5,875.00	1,200.00	3,475.00	1,958.33	
2554-0208012	TAPPI NG VALVE ASSEMBLY, 12 I N.			1.000 EACH
4,304.40	4,304.40	4,304.40	4,304.40	
2554-0210201	FI RE HYDRANT ASSEMBLY, VM-201			50.000 EACH
138,943.83	1,715.00	4,725.00	2,778.88	
2554-0211000	FLUSHI NG DEVI CE (BLOWOFF) ,			9.000 EACH
5,400.00	600.00	600.00	600.00	
2554-0212020	VALVE BOX EXTENSI ON			7.000 EACH
700.00	100.00	100.00	100.00	
2554-0212030	VALVE BOX REPLACEMENT			42.000 EACH
18,586.54	160.00	695.00	442.54	
2554-0214000	FI RE HYDRANT ADJUSTMENT			17.000 EACH
13,125.00	425.00	2,000.00	772.06	
2555-0000010	DELI VER AND STOCKPI LE SALVAGED MATERI ALS			11.000 LS
202,146.05	1,000.00	77,000.00	18,376.91	
2594-8995030	BENCHES			4.000 EACH
8,000.00	2,000.00	2,000.00	2,000.00	
2594-8996187	AI R RELEASE VALVES			1.000 EACH
750.00	750.00	750.00	750.00	
2595-0000010	RAI LROAD I NSURANCE PROVI SI ONS			5.000 LS
28,900.00	3,100.00	10,000.00	5,780.00	
2595-0000100	UPRR I NSURANCE PROVI SI ONS			21.000 LS
130,240.70	750.00	20,000.00	6,201.94	
2595-0000105	BNSFRR I NSURANCE PROVI SI ONS			3.000 LS
45,500.00	3,000.00	39,000.00	15,166.67	
2595-0450079	RAI LROAD SUBBALLAST, FURNI SH AND PLACE			1,585.000 TCN
22,903.25	14.45	14.45	14.45	
2595-0450081	RAI LROAD BALLAST			58.000 TCN
1,528.30	26.35	26.35	26.35	
2595-7400100	REMOVAL OF RAI LROAD CROSSI NG			1.000 LS

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4,500.00	4,500.00	4,500.00	4,500.00	
2595-7400200	REMOVAL OF RAILROAD TRACK			280.000 TLF
8,058.75	14.25	53.00	28.78	
2598-3380010	FIRE HYDRANT ASSEMBLIES			14.000 EACH
44,000.00	3,000.00	3,250.00	3,142.86	
2598-3380040	RELOCATE FIRE HYDRANT			3.000 EACH
4,200.00	1,400.00	1,400.00	1,400.00	
2598-3778004	GATE VALVE AND VALVE BOX, 4 IN.			3.000 EACH
2,100.00	700.00	700.00	700.00	
2598-3778008	GATE VALVE AND VALVE BOX, 8 IN.			20.000 EACH
20,000.00	1,000.00	1,000.00	1,000.00	
2598-8805606	WATER MAIN, DUCTILE IRON, 6 IN.			215.000 LF
7,447.50	28.50	45.00	34.64	
2598-8805608	WATER MAIN, DUCTILE IRON, 8 IN.			1,968.000 LF
67,020.00	33.50	40.00	34.05	
2598-8805612	WATER MAIN, DUCTILE IRON, 12 IN.			1,642.000 LF
68,964.00	42.00	42.00	42.00	
2598-8805808	WATER MAIN, PVC, 8 IN. DIA.			1,680.000 LF
26,880.00	16.00	16.00	16.00	
2598-8810000	WATER MAIN ENCASEMENT			131.000 LF
34,060.00	260.00	260.00	260.00	
2598-8810200	WATER MAIN FITTINGS			2,865.000 LB
5,730.00	2.00	2.00	2.00	
2598-8821010	NEW WATER SERVICE			8.000 EACH
16,080.00	2,010.00	2,010.00	2,010.00	
2598-8821100	WATER SERVICE PIPE, COPPER, 1 INCH			240.000 LF
9,600.00	40.00	40.00	40.00	
2601-2632110	FERTILIZING			8.340 ACRE
2,579.00	150.00	750.00	309.23	
2601-2633100	MOWING			2,115.340 ACRE
87,673.00	30.00	100.00	41.45	
2601-2634100	MULCHING			908.078 ACRE
635,654.60	700.00	700.00	700.00	
2601-2634105	MULCHING, BONDED FIBER MATRIX			102.070 ACRE
300,808.78	690.00	10,000.00	2,947.08	
2601-2634150	MULCHING, WOOD CELLULOSE FIBER			25.480 ACRE
36,331.64	480.00	3,300.00	1,425.89	
2601-2634450	COMPOST			3.000 ACRE
6,750.00	2,250.00	2,250.00	2,250.00	
2601-2634500	OVERSEEDING AND FERTILIZING			39.000 ACRE
33,300.00	850.00	1,000.00	853.85	
2601-2636015	NATIVE GRASS SEEDING			261.920 ACRE

142,592.80	150.00	5,000.00	544.41	
2601-2636018	WETLAND GRASS SEEDING			1.930 ACRE
5,055.00	1,800.00	3,500.00	2,619.17	
2601-2636041	SEEDING AND FERTILIZING			19.350 ACRE
23,389.50	450.00	6,000.00	1,208.76	
2601-2636043	SEEDING AND FERTILIZING (RURAL)			590.375 ACRE
372,957.48	275.00	30,000.00	631.73	
2601-2636044	SEEDING AND FERTILIZING (URBAN)			198.109 ACRE
271,650.62	700.00	30,765.00	1,371.22	
2601-2636045	SEEDING SPECIAL AREAS			4.740 ACRE
2,568.00	450.00	700.00	541.77	
2601-2636054	WILDFLOWER SEEDING			0.680 ACRE
3,340.00	2,000.00	13,000.00	4,911.76	
2601-2638105	SLOPE PROTECTION, BONDED FIBER MATRIX			22.000 SQ
550.00	25.00	25.00	25.00	
2601-2638351	SLOPE PROTECTION, WOOD EXCELISOR MAT (RC-14)			9,824.480 SQ
144,213.78	2.00	105.00	14.68	
2601-2638352	SLOPE PROTECTION, WOOD EXCELISOR MAT			3,210.500 SQ
37,318.90	9.45	20.00	11.62	
2601-2638620	MACADAM STONE SLOPE PROTECTION			23,932.400 SY
727,838.30	20.00	73.00	30.41	
2601-2638900	SLOPE RESHAPING			359.000 SQ
6,780.00	10.00	20.00	18.89	
2601-2639010	SODDING			9,205.850 SQ
334,843.34	22.00	500.00	36.37	
2601-2640251	SPECIAL DITCH CONTROL, JUTE MESH (RC-13)			35.000 SQ
630.00	18.00	18.00	18.00	
2601-2640350	SPECIAL DITCH CONTROL, WOOD EXCELISOR MAT			7,151.200 SQ
103,246.75	12.00	37.80	14.44	
2601-2642100	STABILIZING CROP - SEEDING AND FERTILIZING			642.892 ACRE
166,064.42	51.50	4,500.00	258.31	
2601-2642120	STABILIZING CROP - SEEDING AND FERTILIZING (URBAN)			50.000 ACRE
25,024.80	100.00	2,200.00	500.50	
2601-2643110	WATERING FOR SOD, SPECIAL DITCH CONTROL, OR SLOPE PROTECTION			6,418.100 MGAL
317,118.00	30.00	60.00	49.41	
2601-2643300	MOBILIZATION FOR WATERING			22.000 EACH
7,700.00	350.00	350.00	350.00	
2601-2643400	TURF REINFORCED MAT			2.400 SQ
720.00	300.00	300.00	300.00	

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2601-2643401	TURF REI NFORCEMENT MAT				1, 192. 150	SQ
79, 893. 52	11. 25	300. 00	67. 02			
2601-2700010	OUTLET OR CHANNEL SCOUR PROTECTI ON				3, 080. 000	SF
51, 509. 44	12. 00	50. 00	16. 72			
2602-0000010	SI LT DI TCHES				2, 010. 000	LF
4, 233. 00	1. 25	5. 00	2. 11			
2602-0000020	SI LT FENCE				586, 288. 950	LF
1, 035, 793. 55	1. 00	40. 00	1. 77			
2602-0000030	SI LT FENCE FOR DI TCH CHECKS				53, 860. 000	LF
119, 782. 68	0. 85	19. 00	2. 22			
2602-0000040	SI LT DI KES				3, 538. 000	LF
5, 338. 00	1. 00	4. 00	1. 51			
2602-0000050	SI LT BASI NS				97. 000	EACH
20, 624. 00	75. 00	512. 00	212. 62			
2602-0000060	REMOVAL OF SI LT FENCE				286, 016. 100	LF
96, 006. 31	0. 02	3. 00	0. 34			
2602-0000070	REMOVAL OF SI LT FENCE FOR DI TCH CHECKS				25, 580. 000	LF
8, 871. 35	0. 02	2. 00	0. 35			
2602-0000090	CLEAN- OUT OF SI LT FENCE				342, 093. 300	LF
136, 330. 41	0. 03	5. 00	0. 40			
2602-0000100	CLEAN- OUT OF SI LT FENCE FOR DI TCH CHECK				27, 473. 000	LF
20, 162. 42	0. 05	10. 00	0. 73			
2602-0000110	BALES FOR DI TCH CHECKS				49. 000	EACH
817. 00	7. 00	25. 00	16. 67			
2602-0000210	FLOATI NG SI LT CURTAI N, MOVI NG WATER				240. 000	LF
8, 000. 00	32. 00 (RC- 18)	40. 00	33. 33			
2602-0000221	FLOATI NG SI LT CURTAI N, STI LL WATER				300. 000	LF
7, 500. 00	25. 00	25. 00	25. 00			
2602-0000312	PERI METER AND SLOPE SEDI MENT CONTROL				1, 040. 000	LF
4, 090. 00	2. 25 DEVI CE, 12 I N. DI A.	4. 00	3. 93			
2602-0000320	PERI METER AND SLOPE SEDI MENT CONTROL				3, 709. 000	LF
13, 949. 20	2. 90 DEVI CE, 20 I N. DI A.	6. 00	3. 76			
2610-0000110	SHRUBS				102. 000	EACH
3, 003. 90	29. 45	29. 45	29. 45			
2610-0000120	TREES				63. 000	EACH
14, 166. 03	159. 53	1, 250. 00	224. 86			
2610-0000130	VI NES				146. 000	EACH
2, 190. 00	15. 00	15. 00	15. 00			
2610-0000150	TREE, TRANSPLANTI NG				79. 000	EACH
29, 625. 00	375. 00	375. 00	375. 00			

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2610-0000180	FLOWERS, AS PER PLAN				2.000 LS
6,349.00	840.00	5,509.00	3,174.50		
2610-0000200	MULCH				185.000 CY
6,274.25	26.75	38.80	33.91		
2610-0000212	MULCH, SHREDDED BARK				10.000 CY
300.00	30.00	30.00	30.00		
2610-0000214	MULCH, WOOD CHIPS				110.000 CY
5,342.72	33.60	53.44	48.57		
2610-0000400	WATERING FOR PLANTS				74.000 MGAL
6,480.00	60.00	90.00	87.57		
2610-0000600	TILLAGE				6.000 LS
20,160.00	500.00	6,430.00	3,360.00		
2611-0000100	SHRUBS, FURNISHED AND INSTALLED (WITH WARRANTY)				8,690.000 EACH
298,746.42	11.00	58.00	34.38		
2611-0000200	TREES, FURNISHED AND INSTALLED (WITH WARRANTY)				2,813.000 EACH
536,826.68	140.00	315.00	190.84		
2612-0000500	ROADSIDE SPRAYING				177.360 ACRE
23,308.65	70.00	350.00	131.42		
2612-0000520	ROADSIDE SPRAY FOR WEED CONTROL				64.250 ACRE
19,825.00	300.00	500.00	308.56		

Eola Yard Improvements Cost Estimate

EOLA YARD IMPROVEMENTS COST ESTIMATE

ITEM	QTY	UNIT	UNIT COST	TOTAL COST	APPLICATION CATEGORY	UNIT COST DOCUMENTATION
TRACK	14510	TF	\$230	\$3,337,300	10.09	12" Track Ballast (\$31/TF); Wood RR Ties 24" OC (\$60 each); Rail #115 RE (CWR) (\$105/TF); OTM (\$5/TF); 6" Subballast (\$29/TF)
TURNOUT (#11)	4	EA	\$160,000	\$640,000	10.14	IAIS historical typical cost. Material Cost: no. 11 - \$40,000, no. 15 - \$54,000, no. 20 - \$65,000. Plus railroad freight, site preparation, installation, power operation equipment, contractors expenses and railroad signaling and commissioning costs.
TURNOUT (#24)	14	EA	\$300,000	\$4,200,000	10.14	
EARTHWORK (1.75 CY/FT)	36407	CY	\$16	\$582,500	10.06	prior experience for a project of this size
SUBBALLAST (0.9 CY/FT)	18723.6	CY	\$40	\$749,000	10.06	prior experience for a project of this size
CULVERT EXTENSION	50	LF	\$50	\$2,500	10.04	prior experience
TRACKWORK SUBTOTAL				\$9,511,300		
TRACKWORK CONTIGENCY	1	LS	20%	\$ 1,902,300		
TRACK REMOVAL	9750	TF	\$25	\$243,750	40.01	prior experience
TURNOUT REMOVAL	15	EA	\$10,000	\$150,000	40.01	prior experience
REMOVE CROSSING	2	EA	\$10,000	\$20,000	40.01	prior experience
UTILITY RELOCATION	1	LS	\$500,000	\$500,000	40.02	prior experience
PERMITTING / MITIGATION (WATERWAY IMPACTS)	1	LS	\$1,800,000	\$1,800,000	40.04	NEPA-Environmental
SITWORK SUBTOTAL				\$2,713,750		
SITWORK CONTINGENCY	1	LS	30%	\$ 814,125		
SIGNAL	1	LS	\$13,160,000	\$13,160,000	50.01	Signal Cost Estimate
SIGNAL SUBTOTAL				\$13,160,000		
SIGNAL CONTINGENCY	1	LS	20%	\$ 2,632,000		
PROJECT CONSTRUCTION SUBTOTAL				\$ 30,733,475		
DESIGN:						
NEPA	1	LS	\$500,000	\$500,000	80.02	NEPA-Environmental
PRELIMINARY DESIGN (2% W/OUT SIGNAL)	1	LS	2%	29882950%	80.02	typical industry averages based on a percentage of total construction costs
FINAL DESIGN (4% W/OUT SIGNAL)	1	LS	4%	59765900%	80.03	typical industry averages based on a percentage of total construction costs
SIGNAL DESIGN	1	LS	\$840,000	\$840,000	80.03	Signal Cost Estimate
PROJECT MANAGEMENT (5% W/OUT SIGNAL)	1	LS	5%	74707375%	80.04	typical industry averages based on a percentage of total construction costs
CONSTRUCTION MANAGEMENT (4% W/OUT SIGNAL)	1	LS	4%	59765900%	80.05	typical industry averages based on a percentage of total construction costs
PROJECT DESIGN SUBTOTAL				\$ 3,581,200		
PROJECT DESIGN CONTINGENCY	1	LS	5%	\$ 179,100		
UNALLOCATED CONTINGENCY	1	LS	5%	\$ 1,724,700		
TOTAL				\$36,218,475		

Mikepost

36.54	RETIRE SIGNAL BRIDGE	80,000
36.80	Install New SIGNAL BRIDGE	250,000
36.70	HIGHWAY REARRANGE XING	500,000
36.31	WOOD ST REARRANGE XING	500,000
36.10	OHIO ST REARRANGE XING	500,000
35.00	CP WEST EOLA	
To	POWER OPERATED TURNOUTS 22	2,640,000
35.00	22 ea @ \$120,000	
	Control Signals	644,000
	14 ea @ \$46,000	
34.8	CP WITH 1 POTO & 3 SIGNALS	800,000
33.59	CP EDLA	
To	POWER OPERATED TURNOUTS	4,080,000
33.27	34 ea @ \$120,000	
	Control Signals	1,104,000
	24 ea @ \$46,000	
33.51	ELOA RD REARRANGE XING	500,000
32.96	CP ON EJ & E	800,000
	Total	\$12,398,000
	20% Contingency	2,479,600
		<u>14,877,600</u>

EOLA YARD IMPROVEMENTS COST ESTIMATE

ITEM	QTY	UNIT	UNIT COST	TOTAL COST	APPLICATION CATEGORY	UNIT COST DOCUMENTATION
TRACK	14510	TF	\$230	\$3,337,300	10.09	12" Track Ballast (\$31/TF); Wood RR Ties 24" OC (\$60 each); Rail #115 RE (CWR) (\$105/TF); OTM (\$5/TF); 6" Subballast (\$29/TF)
TURNOUT (#11)	4	EA	\$160,000	\$640,000	10.14	IAIS historical typical cost. Material Cost: no. 11 - \$40,000, no. 15 - \$54,000, no. 20 - \$65,000. Plus railroad freight, site preparation, installation, power operation equipment, contractors expenses and railroad signaling and commissioning costs.
TURNOUT (#24)	14	EA	\$300,000	\$4,200,000	10.14	
EARTHWORK (1.75 CY/FT)	36407	CY	\$16	\$582,500	10.06	prior experience for a project of this size
SUBBALLAST (0.9 CY/FT)	18723.6	CY	\$40	\$749,000	10.06	prior experience for a project of this size
CULVERT EXTENSION	50	LF	\$50	\$2,500	10.04	prior experience
TRACKWORK SUBTOTAL				\$9,511,300		
TRACKWORK CONTIGENCY	1	LS	20%	\$ 1,902,300		
TRACK REMOVAL	9750	TF	\$25	\$243,750	40.01	prior experience
TURNOUT REMOVAL	15	EA	\$10,000	\$150,000	40.01	prior experience
REMOVE CROSSING	2	EA	\$10,000	\$20,000	40.01	prior experience
UTILITY RELOCATION	1	LS	\$500,000	\$500,000	40.02	prior experience
PERMITTING / MITIGATION (WATERWAY IMPACTS)	1	LS	\$1,800,000	\$1,800,000	40.04	NEPA-Environmental
SITWORK SUBTOTAL				\$2,713,750		
SITWORK CONTINGENCY	1	LS	30%	\$ 814,125		
SIGNAL	1	LS	\$13,160,000	\$13,160,000	50.01	Signal Cost Estimate
SIGNAL SUBTOTAL				\$13,160,000		
SIGNAL CONTINGENCY	1	LS	20%	\$ 2,632,000		
PROJECT CONSTRUCTION SUBTOTAL				\$ 30,733,475		
DESIGN:						
NEPA	1	LS	\$500,000	\$500,000	80.02	NEPA-Environmental
PRELIMINARY DESIGN (2% W/OUT SIGNAL)	1	LS	2%	29882950%	80.02	typical industry averages based on a percentage of total construction costs
FINAL DESIGN (4% W/OUT SIGNAL)	1	LS	4%	59765900%	80.03	typical industry averages based on a percentage of total construction costs
SIGNAL DESIGN	1	LS	\$840,000	\$840,000	80.03	Signal Cost Estimate
PROJECT MANAGEMENT (5% W/OUT SIGNAL)	1	LS	5%	74707375%	80.04	typical industry averages based on a percentage of total construction costs
CONSTRUCTION MANAGEMENT (4% W/OUT SIGNAL)	1	LS	4%	59765900%	80.05	typical industry averages based on a percentage of total construction costs
PROJECT DESIGN SUBTOTAL				\$ 3,581,200		
PROJECT DESIGN CONTINGENCY	1	LS	5%	\$ 179,100		
UNALLOCATED CONTINGENCY	1	LS	5%	\$ 1,724,700		
TOTAL				\$36,218,475		

Wyernet Connection Cost Estimate

Cost Estimate for Wyanet Connection

A design for the Wyanet Connection was completed by Design Nine, Inc. in 2001. The Conceptual Engineering Plans submitted with this application vary by the degree of curve and superelevation from the Design Nine, Inc. design. The differences in the designs are minimal, so the detailed cost estimate produced by Design Nine, Inc. has been used as a basis for the cost estimate for the Wyanet Connection for this application.

Design Nine, Inc. Project Cost = \$3,989,581

With Escalation from 2001 to 2010 (4.5%) = \$5,928,897

2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%
3,989,581	4,169,112	4,356,722	4,552,775	4,757,650	4,971,744	5,195,472	5,429,269	5,673,586	5,928,897

Contingency (20%) = \$1,185,779

Total Cost = \$7,114,676

For the cost estimate, the Total Cost is \$7,200,000 based on rounding up to the nearest \$100,000.

DESIGN NINE, INC.

ENGINEERING SERVICES FOR
RAILROADS AND INDUSTRY

11166 TESSON FERRY ROAD - SUITE 100
ST. LOUIS, MO (314) 729-7600

ILLINOIS DEPARTMENT OF TRANSPORTATION

PRELIMINARY COST ESTIMATE

Project Description and Location
Amtrak Service Chicago to Quad Cities, IL via Burlington Northern Santa Fe
between Chicago and Wyanet, IL and Iowa Interstate Railroad
between Wyanet and the Quad Cities, IL
Connection Track between BNSF/IAIS, Crossover and Turnout on BNSF
and Turnout on IAIS

Project Number: 158 Prepared by: G.T. Hay Checked by: Date: July 27, 2001 Sheet: 1 of 1

ITEM AND DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	TOTAL
LABOR AND EQUIPMENT					
Clearing and grubbing	Acre	11	\$3,000.00	\$33,000	
Excavation to embankment and waste	C.Y.	103,762	\$3.50	\$363,167	
Subballast	N.T.	8,060	\$8.50	\$68,510	
Construct Dbl 10'x9' box culvert with wingwalls	L.F.	112	\$900.00	\$100,800	
Construct 10'x10' box culvert with wingwalls	L.F.	100	\$475.00	\$47,500	
Place rip rap around box culvert	N.T.	1,300	\$25.00	\$32,500	
Construct property fencing	L.F.	4,500	\$3.00	\$13,500	
Unload rail and OTM	L.F.	7,968	\$2.50	\$19,920	
Unload cross ties	Each	2,452	\$1.00	\$2,452	
Construct and place BNSF No. 24 turnouts	Each	3	\$90,000.00	\$270,000	
Construct and place IAIS No. 24 turnout	Each	1	\$45,000.00	\$45,000	
Construct track	T.F.	3,984	\$20.00	\$79,680	
Unload ballast	N.T.	4,300	\$1.50	\$6,450	
Surface, line and dress track and turnouts	T.F.	6,600	\$3.50	\$23,100	
Construct timber/asphalt grade crossing	T.F.	16	\$100.00	\$1,600	
BNSF flagging	Day	35	\$500.00	\$17,500	
IAIS flagging	Day	35	\$500.00	\$17,500	
Thermite welds	Each	112	\$350.00	\$39,200	
Utility/fiber optic adjustments	L.S.	1	\$35,000.00	\$35,000	
Construct walkways	N.T.	1,900	\$2.50	\$4,750	
Permitting	%	1,221,129	5%	\$61,056	
Contingencies	%	1,282,185	15%	\$192,328	
Engineering	%	1,474,513	15%	\$221,177	
Total Labor and Equipment					\$1,695,690
MATERIAL					
Property acquisition	Acre	7	\$7,500.00	\$52,500	
Subballast	N.T.	8,060	\$15.00	\$120,900	
7"x9"x9' Cross ties	Each	2,462	\$40.00	\$98,480	
CWR (136#)	N.T.	179	\$600.00	\$107,400	
Ballast	N.T.	4,300	\$12.00	\$51,600	
Walkway ballast	N.T.	1,900	\$10.00	\$19,000	
Tie plates	Each	4,904	\$5.00	\$24,520	
Spikes	Keg	81	\$65.00	\$5,265	
Thermite welds	Each	112	\$150.00	\$16,800	
Rail anchors	Each	8,024	\$1.50	\$12,036	
Timber grade crossings with timber screws	T.F.	16	\$60.00	\$960	
Asphalt paving	N.T.	16	\$50.00	\$800	
No. 24 136# turnout complete	Each	4	\$175,000.00	\$700,000	
Concrete with reinforcement, Dbl box culvert	L.F.	112	\$820.00	\$91,840	
Concrete with reinforcement, box culvert	L.F.	100	\$435.00	\$43,500	
Rip rap	N.T.	1,300	\$10.00	\$13,000	
Contingencies	%	1,358,601	15%	\$203,790	
Total Material					\$1,562,391
SIGNALS					
BBRS Signal Costs	L.S.	1	\$731,500.00	\$731,500	
Total Signals					\$731,500
PROJECT TOTAL					\$3,989,581

No rehabilitation work included on BNSF double track mainlines north of new connection located south of Wyanet

Colona Junction Cost Estimate

COLONA JUNCTION COST ESTIMATE

ITEM	QTY	UNIT	UNIT COST	TOTAL COST	APPLICATION CATEGORY	UNIT COST DOCUMENTATION
TRACK	2388	TF	\$230	\$549,240	10.15	12" Track Ballast (\$31/TF); Wood RR Ties 24" OC (\$60 each); Rail #115 RE (CWR) (\$105/TF); OTM (\$5/TF); 6" Subballast (\$29/TF)
TURNOUT (#20 POTO)	2	EA	\$275,000	\$550,000	10.15	IAIS historical typical cost. Material Cost: no. 11 - \$40,000, no. 15 - \$54,000, no. 20 - \$65,000. Plus railroad freight, site preparation, installation, power operation equipment, contractors expenses and railroad signaling and commissioning costs.
TRACK SHIFT	655	TF	\$60	\$39,300	10.15	prior experience
36" CMP (860 LF)	1	LS	\$91,300	\$91,300	10.15	IaDOT Bid Tab Reference # 2416-1180036 with 10% allowance for excavation, backfill, compaction and granular bedding
TRACKWORK SUBTOTAL				\$1,229,840		
TRACK REMOVAL	2356	TF	\$25	\$58,900	10.15	prior experience
TURNOUT REMOVAL	2	EA	\$10,000	\$20,000	10.15	prior experience
SITE GRADING	1	LS	\$50,000	\$50,000	10.15	prior experience
MISCELLANEOUS SITEWORK	1	LS	\$200,000	\$200,000	10.15	prior experience
SITWORK SUBTOTAL				\$328,900		
PROJECT CONSTRUCTION SUBTOTAL				\$ 1,558,740		
			USE	\$ 1,600,000		
PROJECT CONSTRUCTION CONTINGENCY			20%	\$ 320,000		
TOTAL				\$1,878,740		

Station Cost Estimates

**Chicago to Iowa City Intercity Passenger Rail
Geneseo, IL Passenger Station Conceptual Cost Estimate**

8/6/2010

Conceptual Cost Estimate - Geneseo Station - Minimum Build Out						
ITEMS	Unit	Quantity	Qty Total	Unit Cost *	Total Cost	Application Category
Platform Construction Incl. Tactile	LF	600	600	\$ 650	\$ 390,000	20.03
Relocate Station Away From Track	L Sum	1	1	\$ 150,000	\$ 150,000	20.01
Utility/Fiber Optic Relocation	L Sum	1	1	\$ 100,000	\$ 100,000	40.02
Renovate Station Building	L Sum	-	-	\$ 500,000	\$ -	-
Canopy (25' Long)	L Sum	1	1	\$ 50,000	\$ 50,000	20.03
Platform & Parking Lighting	L Sum	1	1	\$ 80,000	\$ 80,000	20.03
PA System/Passenger Information Display	L Sum	1	1	\$ 20,000	\$ 20,000	20.03
Electrical Service	L Sum	1	1	\$ 25,000	\$ 25,000	40.02
Wheel Chair Lift & Storage Enclosure	Each	1	1	\$ 12,000	\$ 12,000	20.03
Flagging	Day	60	60	\$ 1,000	\$ 60,000	20.03
QuickTrak ticketing kiosks	Each	1	1	\$ 26,000	\$ 26,000	20.08
Acquisition of Depot Property	Allow	1	1	\$ 500,000	\$ 500,000	40.07
Warming Shelter	L Sum	1	1	\$ 40,000	\$ 40,000	20.03
New signage	L Sum	1	1	\$ 25,000	\$ 25,000	20.03
New sidewalk + landscape	SQ FT	10 x 560	5600	\$ 10	\$ 56,000	20.06
Surface parking construction	Stall	20	20	\$ 7,000	\$ 140,000	20.06
Roadway Improvements (E 1st St)	LS	1	1	\$ 20,000.0	\$ 20,000.0	20.07

* See Station Cost Estimate Justification for unit cost documentation

**Chicago to Iowa City Intercity Passenger Rail
Geneseo, IL Passenger Station Conceptual Cost Estimate**

8/6/2010

	Subtotal	\$ 1,694,000
Contingency	30%	\$ 508,200
	Subtotal	\$ 2,202,200
	NEPA	\$ 150,000
	Preliminary Design (4%)	\$ 88,088
	Final Design (6%)	\$ 132,132
	Proj. Mgmt- Design/Const (5%)	\$ 110,110
	Const. Admin/Mgmt(4%)	\$ 88,088
	5% Mgmt. Contingency	\$ 28,421
	5% Unallocated Contingency	\$ 139,952
	Total Cost	\$ 2,938,991

NOTES:

1. Cost of railroad signalization, crossing signals, and track reconstruction is not included
These costs are assumed to be part of track and signal design/construction
2. Cost of QuickTrak ticketing kiosks are initial costs (from Amtrak) only and do not include monthly fees of \$800
3. City plans to buy station and property. This cost is a placeholder only, no appraisals have been done to date.
4. Relocation is required to obtain Amtrak-required 600' platform.
5. Renovation of the station building is not included. A partial renovation may be less expensive than a separate, new waiting shelter
6. Assumes existing storm drainage system can accommodate additional flow
7. Given ridership and ready access between parking and platform, one 25' canopy, separate from the station/warming shelter, is included
8. Evaluate cost of warming shelter vs renovating one portion of the station building
9. If tenants are allowed to stay in the building, income from tenants has not been included as a credit

**Chicago to Iowa City Intercity Passenger Rail
Moline, IL Passenger Station Conceptual Cost Estimate**

8/6/2010

Conceptual Cost Estimate - Moline Station - Minimum Build Out						
ITEMS	Unit	Quantity	Qty Total	Unit Cost *	Total Cost	Application Category
Platform Construction Incl. Tactile	LF	600	600	\$ 650	\$ 390,000	20.03
Platform Lighting	L Sum	1	1	\$ 100,000	\$ 100,000	20.03
Canopy	L Sum	1	1	\$ 100,000	\$ 100,000	20.03
Utility/Fiber Optic Relocation	Allow	1	1	\$ 75,000	\$ 75,000	40.02
PA System/Passenger Information Display	L Sum	1	1	\$ 20,000	\$ 20,000	20.03
Wheel Chair Lift & Storage Enclosure	Each	1	1	\$ 12,000	\$ 12,000	20.03
Electrical/Water/Data Service	L Sum	1	1	\$ 40,000	\$ 40,000	40.02
Flagging	Day	60	60	\$ 1,000	\$ 60,000	20.03
O'Rourke Bldg Renovation	L Sum	1	1	\$ 185,000	\$ 185,000	20.02
QuickTrak ticketing kiosks	Each	3	3	\$ 26,000	\$ 78,000	20.08
Concrete Sidewalk	SQ FT	2,000	2,000	\$ 5	\$ 10,000	20.06
Landscaping	L Sum	1	1	\$ 25,000	\$ 25,000	20.06
Exterior Signage	L Sum	1	1	\$ 25,000	\$ 25,000	20.03
New pickup/dropoff w/parking	SQ FT	75 x 400	30,000	\$ 11	\$ 330,000	20.07
New walkway/entryway to station	SQ FT	40 x 115	4,600	\$ 50	\$ 230,000	20.06
Property Acquisition (O'Rourke Bldg)	Allow	1	1	\$ 900,000.00	\$ 900,000.00	40.07

* See Station Cost Estimate Justification for unit cost documentation

**Chicago to Iowa City Intercity Passenger Rail
Moline, IL Passenger Station Conceptual Cost Estimate**

8/6/2010

Subtotal	\$ 2,580,000
30% Contingency	\$ 774,000
Subtotal	\$ 3,354,000
NEPA	\$ 100,000
Preliminary Design (4%)	\$ 134,160
Final Design (6%)	\$ 201,240
Proj. Mgmt- Design/Const (5%)	\$ 167,700
Const. Admin/Mgmt(4%)	\$ 134,160
5% Design Contingency	\$ 36,863
5% Unallocated Contingency	\$ 206,406
Total Cost	\$ 4,334,529

NOTES:

1. Cost of railroad signalization, crossing signals, and track reconstruction is not included
These costs are assumed to be part of track and signal design/construction
2. Cost of QuickTrak ticketing kiosks are initial costs only and do not include monthly fees of \$800
3. City plans to buy O'Rourke Building at a cost of approximately \$900,000. Property includes two adjacent
4. The City has access to additional parking within a block of the station
5. If tenants are allowed to stay in the building, income from tenants has not been included as a credit
6. The City plans to renovate the first floor of the O'Rourke Building for use as a waiting area and ticketing facility
7. A \$75k allowance has been made for buried utility relocation (fiber optic, gas, etc)

**Chicago to Iowa City Intercity Passenger Rail
Iowa City, IA Passenger Station Conceptual Cost Estimate**

8/6/2010

Conceptual Cost Estimate - Iowa City Station - Minimum Build Out						
ITEMS	Unit	Quantity	Qty Total	Unit Cost *	Total Cost	Application Category
Platform Construction Incl. Tactile	LF	600	600	\$ 650	\$ 390,000	20.03
Platform Lighting	L Sum	1	1	\$ 100,000	\$ 100,000	20.03
PA System/Passenger Information Display	L Sum	1	1	\$ 20,000	\$ 20,000	20.03
Electrical/Water/Data Service	L Sum	1	1	\$ 25,000	\$ 25,000	40.02
Wheel Chair Lift & Storage Enclosure	Each	1	1	\$ 12,000	\$ 12,000	20.03
Retaining Wall for East End of Platform	SF	20 x 200	4,000	\$ 100	\$ 400,000	40.05
Platform Pedestrian Handrail/Guardrail	LF	300	300	\$ 150	\$ 45,000	20.03
Canopies (50' long)	Each	1	1	\$ 100,000	\$ 100,000	20.03
Utility/Fiber Optic Relocation	LS	1	1	\$ 75,000	\$ 75,000	40.02
Flagging	Day	75	75	\$ 1,000	\$ 75,000	20.03
QuickTrak ticketing kiosks	Each	3	3	\$ 26,000	\$ 78,000	20.08
Acquisition of Depot Property	Allow	1	1	\$ 700,000	\$ 700,000	40.07
Tennant Relocation costs	Allow	-	-	\$ 50,000	\$ -	-
Renovation of Depot	Allow	-	-	\$ 1,000,000	\$ -	-
Warming Shelter	L Sum	1	1	\$ 100,000	\$ 100,000	20.03
Exterior signage	L Sum	1	1	\$ 30,000	\$ 30,000	20.03
New pickup + dropoff area (Wright St)	SQ FT	65 x 300	19,500	\$ 10	\$ 195,000	20.07
Concrete Sidewalk	SQ FT	1,200	1,200	\$ 5.5	\$ 6,600.0	20.06
Roadway Closure (Dubuque St)	L Sum	1	1	\$ 50,000	\$ 50,000	20.07
Landscaping	L Sum	1	1	\$ 35,000	\$ 35,000	20.06
Parking (Surface), Prop. Acquis., Const. & Reloc.	Allow	1	1	\$ 700,000	\$ 700,000	20.06
Parking Structure (per space provided)	Space	-	-	\$ 25,000	\$ -	-
Ped Grade Separation to Parking South of Trks.	L Sum	-	-	\$ 1,000,000	\$ -	-
Pedestrian Protection - chainlink fence	L Sum	1	1	\$ 10,000	\$ 10,000	20.06

* See Station Cost Estimate Justification for unit cost documentation

**Chicago to Iowa City Intercity Passenger Rail
Iowa City, IA Passenger Station Conceptual Cost Estimate**

8/6/2010

	Subtotal	\$ 3,146,600
Contingency	30%	\$ 943,980
	Subtotal	\$ 4,090,580
	NEPA	\$ 200,000
	Preliminary Design (4%)	\$ 163,623
	Final Design (6%)	\$ 245,435
	Proj. Mgmt- Design/Const (5%)	\$ 204,529
	Const. Admin/Mgmt(4%)	\$ 163,623
	5% Mgmt. Contingency	\$ 48,861
	5% Unallocated Contingency	\$ 255,833
	Total Cost	\$ 5,372,483

NOTES:

1. Cost of railroad signalization, crossing signals, and track reconstruction is not included
These costs are assumed to be part of track and signal design/construction
2. Cost of QuickTrak ticketing kiosks are initial costs only and do not include monthly fees of \$800
3. City plans to buy station and property at a cost of approximately \$700,000. Property includes two adjacent parking lots with space for 18 vehicles (to be used for ADA parking)
4. An allowance of \$700k has been provided to acquire additional property and construct surface parking on the north side of the tracks
5. The City has access to additional parking at the County lot 1 block away
6. Platform is lengthened across Dubuque Street, retaining wall is constructed adjacent to IAIS tracks to support platform
Dubuque Street is closed at tracks
7. Evaluate cost of warming shelter vs renovating one portion of the station building
8. If tenants are allowed to stay in the building, income from tenants has not been included as a credit
9. Warming shelter serves in lieu of one canopy
10. A \$75k allowance has been made for buried utility relocation (fiber optic, gas, etc)
11. Retaining wall to support east end of platform is assumed to be a combination concrete cantilever and soldier pile wall

Station Cost Estimate Background

Platform Construction Including Tactile (Linear Foot, \$650/LF): Includes forming and pouring a reinforced concrete platform and footing with cantilevered edge, typically 15' wide, with detectable warning tile edging. The unit cost is based on typical unit costs for structural concrete, adjusted for the difficulty of constructing a platform within the railroad operating envelope, which will require cessation of all construction activities whenever a train is approaching. This unit cost has also been verified by recent station construction experience and review of associated bids.

Platform Lighting (LS, typically \$75-\$100K): Includes luminaires along the platform and at approaches to the platform. The cost assumes approximately 20 luminaires and associated conduits and wiring along the platform and at approach walkways or adjacent passenger drop-off area. Exact illumination requirements will need to be determined based on a photometric study of each site that identifies ambient light levels that may increase or decrease the amount of new illumination required. Recent construction costs also informed this unit cost.

PA System/Passenger Information Display (LS, typically \$20,000): Assumes ADA compliant PIDS signs at one or two locations along platform where passengers are likely to congregate (eg, at shelter/station building and at canopy). Estimate based on off the shelf components linked to Amtrak's back-office systems installed at other Amtrak stations.

Electrical/Water/Data Service (LS, typically \$25,000): Assumes all utilities are available immediate vicinity of station. This item brings these utilities to the station site. Data and phone line service entrances are assumed to already exist. Water and electrical cost based on assumed connection costs to adjacent street or overhead line poles. Cost based on experience from recent, similar projects.

Wheel Chair Lift and Enclosure: Assumed cost based on commercially available lift. Enclosure adjacent to or combined with shelter.

Canopy (LS, unit cost typically about \$100,000 for approximately 50' canopy): Based on relatively simple structure, with concrete and/or steel columns and metal roofing system. Assumed cost based on recent cost experience for shelter fabrication and typical costs for structural concrete and steel fabrication, adjusted for small quantities.

Utility/Fiber Optic Relocation (Allowance, typically \$75,000 to \$100,000): Cost based on assumed utility relocation costs. Fiber is known to exist in R/W, but exact location is unknown. Other utility locations are unknown. Historically, there is some utility relocation associated with many station projects.

Flagging (\$1000/day): Based on typical wages for M/W employees for 10-hour day, plus markup for vehicles, tools, etc.

Quick Track Ticket Vending Machine Kiosks (\$26,000 Each): Cost provided by Amtrak during hi-rail trip June 22.

Property Acquisition (costs vary): At Iowa City and Moline, estimated property acquisition costs were provided by the Cities based on their experience. However, appraisals were not always available. At Geneseo, an assumed cost was used.

Tenant Relocation (varies): An assumed cost was used.

Relocate Station Away from Track (LS \$150,000): Involves moving the Geneseo station building approximately 10' away from track. Cost developed by architects with similar experience. Assumes relocation of only the historic structure.

Renovation of Existing Structure or Depot (varies): At Iowa City and Geneseo, this cost was based on a brief site review by architects. At Moline, this cost is an assumed cost for renovating a portion of the interior of the O'Rourke Building (based on conversations with the City, the entire building does not require renovation).

Warming Shelter (varies, \$40,000 at Geneseo and \$100,000 at Iowa City): Assumes stock shelter at Geneseo, based on ridership estimates. Shelter at Iowa City would be more elaborate, with cost based on recent costs for customized transit waiting shelters.

Exterior Signage (\$25,000 to \$30,000): Based on recent cost experience with signage at Amtrak stations.

New Pickup/Drop-off Area (\$10/SF to \$11/SF): Cost for paving, striping, curb and gutter, minor landscaping to improve roadway vicinity of station. Based on typical unit costs for roadway excavation, granular backfill, asphalt paving, and curb and gutter.

Sidewalk (\$5/SF to \$10/SF): Assumes typical concrete sidewalk construction costs, with allowance for "decorative" joint pattern. The higher number (\$10/SF) allows for sidewalk and landscaping. Also includes cost for curb cuts.

Roadway Closure (Dubuque Street) (\$50,000): Assumes closure of the grade crossing at Dubuque Street to provide a 600' long platform at Iowa City station. Allows for sawcutting, removal of crossing at track, new curb and gutter, minor paving at curb and gutter, striping, and signage on either side of the tracks. Based on typical unit costs for small quantities of each of these items.

Landscaping (LS, \$25,000 to \$35,000): Provides for landscaping and site plantings. Based on assumed quantity of landscaping along site.

Surface parking Construction (\$7000/Stall): Geneseo only) Conceptual cost number supported by bid tabs for projects of similar size. Accounts for relatively small quantity of work.

NEPA-Environmental Cost Estimate

**Cost Estimate - Eola Main Line Improvements Tier 2 NEPA
High- Speed Intercity Passenger Chicago to Iowa City Tier 2 NEPA Compliance**

Professional Staff Hour Tabulation

TASK	Prin. PM	Sr. NEPA Sr. Rail	Env. Planner/ Rail Eng.	Designer/ GIS/ CADD	Acctg/ Editor	Labor TOTAL
1. Site Visits and Data Collection						
1.1 Site Visit	8	16	80	24	16	144
1.2 Data Collection	4	24	80	80	0	188
1.3 Technical Memorandum	4	24	120	24	24	196
	16	64	280	128	40	528
2. Agency and Public Involvement						
2.1 Agency Coordination	40	24	80	40		184
2.2 Public Involvement	24	16	120	24		184
	64	40	200	64	0	368
3. TIER 2 EA						
3.1 Introduction	4	4	16		8	32
3.2 Purpose and need	32	40	80		8	160
3.3 Alternatives	40	80	24	80	8	232
3.4 Affected Environment and Environmental Consequences	4	8	24		26	62
3.4.1 Introduction/Tier 1 EA cross reference			4	4		8
3.4.2 Transportation		32	80	32		144
3.4.3 Noise and Vibration		6	72			78
3.4.4 Air Quality		4	10			14
3.4.5 Hazardous Materials			40	4		44
3.4.6 Cultural Resources			40			40
3.4.7 Section 4(f) Resources			32			32
3.4.8 Waterways (Stream Relocation)	24	40	120	80	4	268
3.4.9 Wetlands	24	40	120	80		264
3.4.10 Water Quality			8			8
3.4.11 Floodplains		24	32	8		64
3.4.12 Construction Impacts	12	24	40	40	16	132
3.4.13 Irreversible and Irretrievable Commitment of Resources		4	16			20
3.4.14 Indirect and Cumulative Impacts	4	12	24			40
3.4.15 Summary of Impacts of Eola Yard		12	40	40		92
3.5 Comments and Coordination	40	24	80	160	120	424
3.6 Mitigation	24	40	120	120	80	384
3.7 TOC, A/A, References		1			8	9
3.8 Appendices			120		1	121
3.9 FONSI	24	12	40		6	82
	232	407	1182	648	285	2754
4. TASK ORDER MANAGEMENT						
4.1 Management, Coordination, and Liaison	24	0	0	0	8	32
4.2 DOT Coordination	40	4	12	8	0	64
4.3 Quality Review of Project Deliverables	40	80	4	0	0	124
	104	84	16	8	8	220
TOTAL HOURS	416	595	1678	848	333	3870

FEE SUMMARY

I. Estimated Direct Labor Costs			
CLASSIFICATION	TOTAL HOURS	HOURLY RATE	DIRECT LABOR COST
Principal / Project Manager	416	\$68.00	\$28,288
Senior Engr.	595	\$79.00	\$47,005
Design Engineer / Planner / Env Scientist	1678	\$34.00	\$57,052
Designer / CADD	848	\$25.00	\$21,200
Clerical	333	\$20.00	\$6,660
TOTAL DIRECT LABOR COST	3870		\$160,205
II. Payroll Burden and OH Costs	Overhead = 157.76%		\$252,739
III. Direct Project Expenses			
Travel - Rental Car	12 Days	at \$100.00	\$1,200
Travel - Meals	32 Meals	at \$6.00	\$192
Travel - Airfare	6 Roundtrip	at \$600.00	\$3,600
Travel - Hotel	12 Days	at \$75.00	\$900
Specialty Support Staff	0 hours	at \$150.00	\$0
Technology Charge	3870 Hours	at \$3.70	\$14,319
General Photocopies	500 Sheets	at \$0.07	\$35
Telephone - Conference Calls	4 each	at \$30.00	\$120
Shipping	3 mailings	at \$20.00	\$60
TOTAL ESTIMATED DIRECT EXPENSE			\$20,426
IV. Subconsultant Expenses			
A. n/a			\$0
TOTAL SUBCONSULTANT EXPENSES			\$0
IV. Estimated Actual Costs (I + II + III), Rounded			\$433,370
V. FIXED FEE	13% x (I + II)		\$53,683
VII. Unauthorized Contingency	0% x (I + II + III)		\$0
VIII. Cost Plus Fixed Fees			\$487,053
Cost Estimate For HSIPR Grant Application		Use	\$500,000

**Cost Estimate - Wyanet Connection Tier 2 NEPA
High-Speed Intercity Passenger Chicago to Iowa City Tier 2 NEPA Compliance**

Professional Staff Hour Tabulation

TASK	Prin.	Sr. NEPA	Env.	Designer/	Acctg/ Editor	Labor TOTAL
	PM	Sr. Rail	Planner/ Rail Eng.	GIS/ CADD		
1. Site Visits and Data Collection						
1.1 Site Visit	1	1	8	8	16	34
1.2 Data Collection	4	12	12	12	0	40
1.3 Technical Memorandum	4	24	24	12	24	88
	9	37	44	32	40	162
2. Agency and Public Involvement						
2.1 Agency Coordination	12	12	24	24		72
2.2 Public Involvement	8	12	0	0		20
	20	24	24	24	0	92
3. TIER 2 EA						
3.1 Introduction	4	4	16		8	32
3.2 Purpose and need	1	4	4		8	17
3.3 Alternatives	24	40	24	80	8	176
3.4 Affected Environment and Environmental Consequences	4	8	12		26	50
3.4.1 Introduction/Tier 1 EA cross reference			4	4		8
3.4.2 Transportation		4	4	4		12
3.4.3 Noise and Vibration		4	24			28
3.4.4 Air Quality		4	10			14
3.4.5 Hazardous Materials			40	4		44
3.4.6 Cultural Resources			8			8
3.4.7 Section 4(f) Resources	4	4	4			12
3.4.8 Waterways (Stream Relocation)	24	40	80	60	4	208
3.4.9 Wetlands	16	24	80	60		180
3.4.10 Water Quality			8			8
3.4.11 Floodplains		12	24	8		44
3.4.12 Construction Impacts	4	4	8	8	16	40
3.4.13 Irreversible and Irrecoverable Commitment of Resources		4	12			16
3.4.14 Indirect and Cumulative Impacts	4	4	8			16
3.4.15 Summary of Impacts Wyanet Connection			24	16		40
3.5 Comments and Coordination	4	4	12	12	12	44
3.6 Mitigation	16	24	40	24	32	136
3.7 TOC, A/A, References		1			8	9
3.8 Appendices			40		1	41
3.9 FONSI	12	12	24		6	54
	117	201	510	280	129	1237
4. TASK ORDER MANAGEMENT						
4.1 Management, Coordination, and Liaison	12	0	0	0	8	20
4.2 DOT Coordination	2	4	12	8	0	26
4.3 Quality Review of Project Deliverables	12	16	4	0	0	32
	26	20	16	8	8	78
TOTAL HOURS	172	282	594	344	177	1569

FEE SUMMARY

I. Estimated Direct Labor Costs				
CLASSIFICATION	TOTAL HOURS	HOURLY RATE	DIRECT LABOR COST	
Principal / Project Manager	172	\$68.00	\$11,696	
Senior Engr.	282	\$79.00	\$22,278	
Design Engineer / Planner / Env Scientist	594	\$34.00	\$20,196	
Designer / CADD	344	\$25.00	\$8,600	
Clerical	177	\$20.00	\$3,540	
TOTAL DIRECT LABOR COST	1569		\$66,310	
II. Payroll Burden and OH Costs		Overhead = 157.76%	\$104,611	
III. Direct Project Expenses				
Travel - Rental Car	2 Days	at \$100.00	\$200	
Travel - Meals	12 Meals	at \$6.00	\$72	
Travel - Airfare	2 Roundtrip	at \$600.00	\$1,200	
Travel - Hotel	12 Days	at \$75.00	\$900	
Specialty Support Staff	0 hours	at \$150.00	\$0	
Technology Charge	1569 Hours	at \$3.70	\$5,805	
General Photocopies	500 Sheets	at \$0.07	\$35	
Telephone - Conference Calls	4 each	at \$30.00	\$120	
Shipping	3 mailings	at \$20.00	\$60	
TOTAL ESTIMATED DIRECT EXPENSE			\$8,392	
IV. Subconsultant Expenses				
A. n/a			\$0	
TOTAL SUBCONSULTANT EXPENSES			\$0	
IV. Estimated Actual Costs (I + II + III), Rounded			\$179,313	
V. FIXED FEE			13% x (I + II)	
			\$22,220	
VII. Unauthorized Contingency			0% x (I + II + III)	
			\$0	
VIII. Cost Plus Fixed Fees			\$201,533	
Cost Estimate For HSIPR Grant Application			Use	\$200,000

**Cost Estimate - Moline Station Tier 2 NEPA
High-Speed Intercity Passenger Chicago to Iowa City Tier 2 NEPA Compliance**

Professional Staff Hour Tabulation

TASK	Prin.	Sr. NEPA	Env.	Designer/	Acctg/	Labor
	PM	Sr. Rail	Planner/ Rail Eng.	GIS/ CADD	Editor	
1. Site Visits and Data Collection						
1.1 Site Visit	1	2	24	0	0	27
1.2 Data Collection	1	2	16	0	0	19
1.3 Technical Memorandum	1	2	24	4	8	39
	3	6	64	4	8	85
2. Agency and Public Involvement						
2.1 Agency Coordination	12	12	24	24		72
2.2 Public Involvement	24	24	40	24	12	124
	36	36	64	48	12	196
3. TIER 2 EA						
3.1 Introduction	1	1	8		2	12
3.2 Purpose and need	4	1	4		2	11
3.3 Alternatives	2	1	4	8	2	17
3.4 Affected Environment and Environmental Consequences	4	8			26	38
3.4.1 Introduction/Tier 1 EA cross reference			4	4		8
3.4.2 Transportation			4			4
3.4.3 Noise and Vibration		6	72			78
3.4.4 Air Quality		1	4			5
3.4.5 Hazardous Materials			20	4		24
3.4.6 Cultural Resources	24	40	120	40		224
3.4.7 Section 4(f) Resources			4			4
3.4.8 Waterways (Stream Relocation)			4	4	4	12
3.4.9 Wetlands			4	4		8
3.4.10 Water Quality			8			8
3.4.11 Floodplains			12	8		20
3.4.12 Construction Impacts		1	8			9
3.4.13 Irreversible and Irrecoverable Commitment of Resources		1	4			5
3.4.14 Indirect and Cumulative Impacts		1	4			5
3.4.15 Summary of Impacts		1	8			9
3.5 Comments and Coordination	1	1	8		1	11
3.6 Mitigation	1	1	4		1	7
3.7 TOC, A/A, References		1			8	9
3.8 Appendices			4		1	5
3.9 FONSI	1	8	40		6	55
	38	73	352	72	53	588
4. TASK ORDER MANAGEMENT						
4.1 Management, Coordination, and Liaison	4	0	0	0	8	12
4.2 DOT Coordination	4	4	12	8	0	28
4.3 Quality Review of Project Deliverables	4	4	4	0	0	12
	12	8	16	8	8	52
TOTAL HOURS	65	99	456	108	69	797

FEE SUMMARY

I. Estimated Direct Labor Costs			
CLASSIFICATION	TOTAL HOURS	HOURLY RATE	DIRECT LABOR COST
Principal / Project Manager	65	\$68.00	\$4,420
Senior Engr.	99	\$79.00	\$7,821
Design Engineer / Planner / Env Scientist	456	\$34.00	\$15,504
Designer / CADD	108	\$25.00	\$2,700
Clerical	69	\$20.00	\$1,380
TOTAL DIRECT LABOR COST	797		\$31,825
II. Payroll Burden and OH Costs			
Overhead =	157.76%		\$50,207
III. Direct Project Expenses			
Travel - Rental Car	2 Days	at \$100.00	\$200
Travel - Meals	12 Meals	at \$6.00	\$72
Travel - Airfare	2 Roundtrip	at \$600.00	\$1,200
Travel - Hotel	6 Days	at \$75.00	\$450
Specialty Support Staff	0 hours	at \$150.00	\$0
Technology Charge	797 Hours	at \$3.70	\$2,949
General Photocopies	500 Sheets	at \$0.07	\$35
Telephone - Conference Calls	4 each	at \$30.00	\$120
Shipping	3 mailings	at \$20.00	\$60
TOTAL ESTIMATED DIRECT EXPENSE			\$5,086
IV. Subconsultant Expenses			
A. n/a			\$0
TOTAL SUBCONSULTANT EXPENSES			\$0
IV. Estimated Actual Costs (I + II + III), Rounded			
			\$87,118
V. FIXED FEE			
13% x (I + II)			\$10,664
VII. Unauthorized Contingency			
0% x (I + II + III)			\$0
VIII. Cost Plus Fixed Fees			
			\$97,782
Cost Estimate For HSIPR Grant Application		Use	\$100,000

**Cost Estimate - Rock Island Yard Tier 2 NEPA
High-Speed Intercity Passenger Chicago to Iowa City Tier 2 NEPA Compliance**

Professional Staff Hour Tabulation

TASK	Prin.	Sr. NEPA	Env.	Designer/	Acctg/	Labor
	PM	Sr. Rail	Planner/ Rail Eng.	GIS/ CADD	Editor	
1. Site Visits and Data Collection						
1.1 Site Visit	1	12	12	0	0	25
1.2 Data Collection	1	8	8	0	0	17
1.3 Technical Memorandum	1	2	24	4	8	39
	3	22	44	4	8	81
2. Agency and Public Involvement						
2.1 Agency Coordination	12	12	24	24		72
2.2 Public Involvement	4	8	8	8	12	40
	16	20	32	32	12	112
3. TIER 2 EA						
3.1 Introduction	1	1	8		2	12
3.2 Purpose and need	4	1	4		2	11
3.3 Alternatives	32	56	80	40	2	210
3.4 Affected Environment and Environmental Consequences	4	8			26	38
3.4.1 Introduction/Tier 1 EA cross reference			4	4		8
3.4.2 Transportation	12	12	24	24		72
3.4.3 Noise and Vibration	6	12	60	40		118
3.4.4 Air Quality		1	4			5
3.4.5 Hazardous Materials	12	24	40	40		116
3.4.6 Cultural Resources		4	12	40		56
3.4.7 Section 4(f) Resources			4			4
3.4.8 Waterways (Stream Relocation)			4	4	4	12
3.4.9 Wetlands			4	4		8
3.4.10 Water Quality			8			8
3.4.11 Floodplains	4	8	24	8		44
3.4.12 Construction Impacts	12	24	24	24		84
3.4.13 Irreversible and Irrecoverable Commitment of Resources		1	4			5
3.4.14 Indirect and Cumulative Impacts	4	4	24			32
3.4.15 Summary of Impacts		1	8			9
3.5 Comments and Coordination	1	1	8		1	11
3.6 Mitigation	1	1	4		1	7
3.7 TOC, A/A, References		1			8	9
3.8 Appendices			4		1	5
3.9 FONSI	1	8	40		6	55
	94	168	396	228	53	939
4. TASK ORDER MANAGEMENT						
4.1 Management, Coordination, and Liaison	4	0	0	0	8	12
4.2 DOT Coordination	4	4	12	8	0	28
4.3 Quality Review of Project Deliverables	4	4	4	0	0	12
	12	8	16	8	8	52
TOTAL HOURS	121	210	480	264	69	1144

FEE SUMMARY

I. Estimated Direct Labor Costs			
CLASSIFICATION	TOTAL HOURS	HOURLY RATE	DIRECT LABOR COST
Principal / Project Manager	121	\$68.00	\$8,228
Senior Engr.	210	\$79.00	\$16,590
Design Engineer / Planner / Env Scientist	480	\$34.00	\$16,320
Designer / CADD	264	\$25.00	\$6,600
Clerical	69	\$20.00	\$1,380
TOTAL DIRECT LABOR COST	1144		\$49,118
II. Payroll Burden and OH Costs	Overhead = 157.76%		\$77,489
III. Direct Project Expenses			
Travel - Rental Car	2 Days	at \$100.00	\$200
Travel - Meals	12 Meals	at \$6.00	\$72
Travel - Airfare	2 Roundtrip	at \$600.00	\$1,200
Travel - Hotel	6 Days	at \$75.00	\$450
Specialty Support Staff	0 hours	at \$150.00	\$0
Technology Charge	1144 Hours	at \$3.70	\$4,233
General Photocopies	500 Sheets	at \$0.07	\$35
Telephone - Conference Calls	4 each	at \$30.00	\$120
Shipping	3 mailings	at \$20.00	\$60
TOTAL ESTIMATED DIRECT EXPENSE			\$6,370
IV. Subconsultant Expenses			
A. n/a			\$0
TOTAL SUBCONSULTANT EXPENSES			\$0
IV. Estimated Actual Costs (I + II + III), Rounded			\$132,977
V. FIXED FEE	13% x (I + II)		\$16,459
VII. Unauthorized Contingency	0% x (I + II + III)		\$0
VIII. Cost Plus Fixed Fees			\$149,436
Cost Estimate For HSIPR Grant Application		Use	\$150,000

**Cost Estimate - Geneseo Tier 2 NEPA
High-Speed Intercity Passenger Chicago to Iowa City Tier 2 NEPA Compliance**

Professional Staff Hour Tabulation

TASK	Prin.	Sr. NEPA	Env.	Designer/	Acctg/	Labor
	PM	Sr. Rail	Planner/ Rail Eng.	GIS/ CADD	Editor	
1. Site Visits and Data Collection						
1.1 Site Visit	1	2	24	0	0	27
1.2 Data Collection	1	2	16	0	0	19
1.3 Technical Memorandum	1	2	24	4	8	39
	3	6	64	4	8	85
2. Agency and Public Involvement						
2.1 Agency Coordination	12	12	24	24		72
2.2 Public Involvement	24	24	40	24	12	124
	36	36	64	48	12	196
3. TIER 2 EA						
3.1 Introduction	1	1	8		2	12
3.2 Purpose and need	4	1	4		2	11
3.3 Alternatives	32	56	80	40	2	210
3.4 Affected Environment and Environmental Consequences	4	8			26	38
3.4.1 Introduction/Tier 1 EA cross reference			4	4		8
3.4.2 Transportation			4			4
3.4.3 Noise and Vibration		6	72			78
3.4.4 Air Quality		1	4			5
3.4.5 Hazardous Materials			20	4		24
3.4.6 Cultural Resources	12	40	80	40		172
3.4.7 Section 4(f) Resources			4			4
3.4.8 Waterways (Stream Relocation)			4	4	4	12
3.4.9 Wetlands			4	4		8
3.4.10 Water Quality			8			8
3.4.11 Floodplains			12	8		20
3.4.12 Construction Impacts	32	24	60	24		140
3.4.13 Irreversible and Irretrievable Commitment of Resources		1	4			5
3.4.14 Indirect and Cumulative Impacts	4	4	24			32
3.4.15 Summary of Impacts		1	8			9
3.5 Comments and Coordination	1	1	8		1	11
3.6 Mitigation	1	1	4		1	7
3.7 TOC, A/A, References		1			8	9
3.8 Appendices			4		1	5
3.9 FONSI	1	8	40		6	55
	92	154	460	128	53	887
4. TASK ORDER MANAGEMENT						
4.1 Management, Coordination, and Liaison	4	0	0	0	8	12
4.2 DOT Coordination	4	4	12	8	0	28
4.3 Quality Review of Project Deliverables	4	4	4	0	0	12
	12	8	16	8	8	52
TOTAL HOURS	119	180	564	164	69	1096

FEE SUMMARY

I. Estimated Direct Labor Costs			
CLASSIFICATION	TOTAL HOURS	HOURLY RATE	DIRECT LABOR COST
Principal / Project Manager	119	\$68.00	\$8,092
Senior Engr.	180	\$79.00	\$14,220
Design Engineer / Planner / Env Scientist	564	\$34.00	\$19,176
Designer / CADD	164	\$25.00	\$4,100
Clerical	69	\$20.00	\$1,380
TOTAL DIRECT LABOR COST	1096		\$46,968
II. Payroll Burden and OH Costs	Overhead = 157.76%		\$74,097
III. Direct Project Expenses			
Travel - Rental Car	2 Days	at \$100.00	\$200
Travel - Meals	12 Meals	at \$6.00	\$72
Travel - Airfare	2 Roundtrip	at \$600.00	\$1,200
Travel - Hotel	6 Days	at \$75.00	\$450
Specialty Support Staff	0 hours	at \$150.00	\$0
Technology Charge	1096 Hours	at \$3.70	\$4,055
General Photocopies	500 Sheets	at \$0.07	\$35
Telephone - Conference Calls	4 each	at \$30.00	\$120
Shipping	3 mailings	at \$20.00	\$60
TOTAL ESTIMATED DIRECT EXPENSE			\$6,192
IV. Subconsultant Expenses			
A. n/a			\$0
TOTAL SUBCONSULTANT EXPENSES			\$0
IV. Estimated Actual Costs (I + II + III), Rounded			\$127,257
V. FIXED FEE	13% x (I + II)		\$15,738
VII. Unauthorized Contingency	0% x (I + II + III)		\$0
VIII. Cost Plus Fixed Fees			\$142,995
Cost Estimate For HSIPR Grant Application		Use	\$150,000

**Cost Estimate - Illinois Track Improvements Tier 2 NEPA
High-Speed Intercity Passenger Chicago to Iowa City Tier 2 NEPA Compliance**

Professional Staff Hour Tabulation

TASK	Prin.	Sr. NEPA	Env.	Designer/	Acctg/	Labor
	PM	Sr. Rail	Planner/ Rail Eng.	GIS/ CADD	Editor	
1. Site Visits and Data Collection						
1.1 Site Visit	1	2	24	0	0	27
1.2 Data Collection	1	2	16	0	0	19
1.3 Technical Memorandum	1	2	24	4	8	39
	3	6	64	4	8	85
2. Agency and Public Involvement						
2.1 Agency Coordination	4	4	8	8		24
2.2 Public Involvement	4	8	12	12	12	48
	8	12	20	20	12	72
3. TIER 2 EA						
3.1 Introduction	1	1	8		2	12
3.2 Purpose and need	4	1	4		2	11
3.3 Alternatives	4	24	24	24	2	78
3.4 Affected Environment and Environmental Consequences	4	8			26	38
3.4.1 Introduction/Tier 1 EA cross reference			4	4		8
3.4.2 Transportation	24	32	40	40		136
3.4.3 Noise and Vibration	24	24	80	32		160
3.4.4 Air Quality		1	4			5
3.4.5 Hazardous Materials			20	4		24
3.4.6 Cultural Resources	2	4	24	12		42
3.4.7 Section 4(f) Resources	12	12	24	24		72
3.4.8 Waterways (Stream Relocation)	4	8	12	12	4	40
3.4.9 Wetlands	4	12	12	24		52
3.4.10 Water Quality			8			8
3.4.11 Floodplains			12	8		20
3.4.12 Construction Impacts	12	12	40	24		88
3.4.13 Irreversible and Irrecoverable Commitment of Resources		1	4			5
3.4.14 Indirect and Cumulative Impacts	4	4	24			32
3.4.15 Summary of Impacts		1	8			9
3.5 Comments and Coordination	1	1	8		1	11
3.6 Mitigation	1	1	4		1	7
3.7 TOC, A/A, References		1			8	9
3.8 Appendices			4		1	5
3.9 FONSI	1	8	40		6	55
	102	156	408	208	53	927
4. TASK ORDER MANAGEMENT						
4.1 Management, Coordination, and Liaison	4	0	0	0	8	12
4.2 DOT Coordination	4	4	12	8	0	28
4.3 Quality Review of Project Deliverables	4	4	4	0	0	12
	12	8	16	8	8	52
TOTAL HOURS	121	174	496	228	69	1088

FEE SUMMARY

I. Estimated Direct Labor Costs			
CLASSIFICATION	TOTAL HOURS	HOURLY RATE	DIRECT LABOR COST
Principal / Project Manager	121	\$68.00	\$8,228
Senior Engr.	174	\$79.00	\$13,746
Design Engineer / Planner / Env Scientist	496	\$34.00	\$16,864
Designer / CADD	228	\$25.00	\$5,700
Clerical	69	\$20.00	\$1,380
TOTAL DIRECT LABOR COST	1088		\$45,918
II. Payroll Burden and OH Costs	Overhead = 157.76%		\$72,440
III. Direct Project Expenses			
Travel - Rental Car	2 Days	at \$100.00	\$200
Travel - Meals	12 Meals	at \$6.00	\$72
Travel - Airfare	2 Roundtrip	at \$600.00	\$1,200
Travel - Hotel	6 Days	at \$75.00	\$450
Specialty Support Staff	0 hours	at \$150.00	\$0
Technology Charge	1088 Hours	at \$3.70	\$4,026
General Photocopies	500 Sheets	at \$0.07	\$35
Telephone - Conference Calls	4 each	at \$30.00	\$120
Shipping	3 mailings	at \$20.00	\$60
TOTAL ESTIMATED DIRECT EXPENSE			\$6,163
IV. Subconsultant Expenses			
A. n/a			\$0
TOTAL SUBCONSULTANT EXPENSES			\$0
IV. Estimated Actual Costs (I + II + III), Rounded			\$124,521
V. FIXED FEE	13% x (I + II)		\$15,387
VII. Unauthorized Contingency	0% x (I + II + III)		\$0
VIII. Cost Plus Fixed Fees			\$139,908
Cost Estimate For HSIPR Grant Application		Use	\$140,000

**Cost Estimate - Iowa Track Improvements Tier 2 NEPA
High-Speed Intercity Passenger Chicago to Iowa City Tier 2 NEPA Compliance**

Professional Staff Hour Tabulation

TASK	Prin.	Sr. NEPA	Env.	Designer/	Acctg/ Editor	Labor TOTAL
	PM	Sr. Rail	Planner/ Rail Eng.	GIS/ CADD		
1. Site Visits and Data Collection						
1.1 Site Visit	8	8	24	0	0	40
1.2 Data Collection	1	2	16	0	0	19
1.3 Technical Memorandum	1	2	24	4	8	39
	10	12	64	4	8	98
2. Agency and Public Involvement						
2.1 Agency Coordination	4	4	8	8		24
2.2 Public Involvement	4	8	12	12	12	48
	8	12	20	20	12	72
3. TIER 2 EA						
3.1 Introduction	1	1	8		2	12
3.2 Purpose and need	4	1	4		2	11
3.3 Alternatives	4	24	24	24	2	78
3.4 Affected Environment and Environmental Consequences	4	8			26	38
3.4.1 Introduction/Tier 1 EA cross reference			4	4		8
3.4.2 Transportation	24	32	40	40		136
3.4.3 Noise and Vibration	32	32	80	40		184
3.4.4 Air Quality		1	4			5
3.4.5 Hazardous Materials	4	24	20	4		52
3.4.6 Cultural Resources	2	4	24	12		42
3.4.7 Section 4(f) Resources	12	12	24	24		72
3.4.8 Waterways (Stream Relocation)	4	8	12	12	4	40
3.4.9 Wetlands	4	12	12	24		52
3.4.10 Water Quality			8			8
3.4.11 Floodplains			12	8		20
3.4.12 Construction Impacts	12	12	40	24		88
3.4.13 Irreversible and Irrecoverable Commitment of Resources		1	4			5
3.4.14 Indirect and Cumulative Impacts	4	4	24			32
3.4.15 Summary of Impacts		1	8			9
3.5 Comments and Coordination	1	1	8		1	11
3.6 Mitigation	1	1	4		1	7
3.7 TOC, A/A, References		1			8	9
3.8 Appendices			4		1	5
3.9 FONSI	1	8	40		6	55
	114	188	408	216	53	979
4. TASK ORDER MANAGEMENT						
4.1 Management, Coordination, and Liaison	4	0	0	0	8	12
4.2 DOT Coordination	4	4	12	8	0	28
4.3 Quality Review of Project Deliverables	4	4	4	0	0	12
	12	8	16	8	8	52
TOTAL HOURS	140	212	496	236	69	1153

FEE SUMMARY

I. Estimated Direct Labor Costs			
CLASSIFICATION	TOTAL HOURS	HOURLY RATE	DIRECT LABOR COST
Principal / Project Manager	140	\$68.00	\$9,520
Senior Engr.	212	\$79.00	\$16,748
Design Engineer / Planner / Env Scientist	496	\$34.00	\$16,864
Designer / CADD	236	\$25.00	\$5,900
Clerical	69	\$20.00	\$1,380
TOTAL DIRECT LABOR COST	1153		\$50,412
II. Payroll Burden and OH Costs		Overhead = 157.76%	\$79,530
III. Direct Project Expenses			
Travel - Rental Car	2 Days	at \$100.00	\$200
Travel - Meals	12 Meals	at \$6.00	\$72
Travel - Airfare	2 Roundtrip	at \$600.00	\$1,200
Travel - Hotel	6 Days	at \$75.00	\$450
Specialty Support Staff	0 hours	at \$150.00	\$0
Technology Charge	1153 Hours	at \$3.70	\$4,266
General Photocopies	500 Sheets	at \$0.07	\$35
Telephone - Conference Calls	4 each	at \$30.00	\$120
Shipping	3 mailings	at \$20.00	\$60
TOTAL ESTIMATED DIRECT EXPENSE			\$6,403
IV. Subconsultant Expenses			
A. n/a			\$0
TOTAL SUBCONSULTANT EXPENSES			\$0
IV. Estimated Actual Costs (I + II + III), Rounded			\$136,345
V. FIXED FEE			13% x (I + II)
			\$16,892
VII. Unauthorized Contingency			0% x (I + II + III)
			\$0
VIII. Cost Plus Fixed Fees			\$153,237
Cost Estimate For HSIPR Grant Application		Use	\$160,000

**Cost Estimate - Iowa City Tier 2 NEPA
High-Speed Intercity Passenger Chicago to Iowa City Tier 2 NEPA Compliance**

Professional Staff Hour Tabulation

TASK	Prin.	Sr. NEPA	Env.	Designer/	Acctg/	Labor
	PM	Sr. Rail	Planner/ Rail Eng.	GIS/ CADD	Editor	
1. Site Visits and Data Collection						
1.1 Site Visit	8	8	24	0	0	40
1.2 Data Collection	8	8	32	16	4	68
1.3 Technical Memorandum	4	4	40	32	8	88
	20	20	96	48	12	196
2. Agency and Public Involvement						
2.1 Agency Coordination	12	12	24	24		72
2.2 Public Involvement	24	24	40	24	12	124
	36	36	64	48	12	196
3. TIER 2 EA						
3.1 Introduction	1	1	8		2	12
3.2 Purpose and need	4	1	4		2	11
3.3 Alternatives	12	24	40	32	2	110
3.4 Affected Environment and Environmental Consequences	4	8			26	38
3.4.1 Introduction/Tier 1 EA cross reference			4	4		8
3.4.2 Transportation	4	24	24			52
3.4.3 Noise and Vibration	4	12	80	32		128
3.4.4 Air Quality		1	4			5
3.4.5 Hazardous Materials			20	4		24
3.4.6 Cultural Resources	24	40	120	40		224
3.4.7 Section 4(f) Resources	4	24	24	12		64
3.4.8 Waterways (Stream Relocation)			4	4	4	12
3.4.9 Wetlands			4	4		8
3.4.10 Water Quality			8			8
3.4.11 Floodplains			12	8		20
3.4.12 Construction Impacts		1	8			9
3.4.13 Irreversible and Irrecoverable Commitment of Resources		1	4			5
3.4.14 Indirect and Cumulative Impacts		1	4			5
3.4.15 Summary of Impacts		4	16		16	36
3.5 Comments and Coordination	8	12	24	24	8	76
3.6 Mitigation	12	24	40	40	8	124
3.7 TOC, A/A, References		1			8	9
3.8 Appendices	12	24	40	80	24	180
3.9 FONSI	1	8	40		6	55
	90	211	532	284	106	1223
4. TASK ORDER MANAGEMENT						
4.1 Management, Coordination, and Liaison	4	0	0	0	8	12
4.2 DOT Coordination	4	4	12	8	0	28
4.3 Quality Review of Project Deliverables	4	4	4	0	0	12
	12	8	16	8	8	52
TOTAL HOURS	134	251	668	364	126	1543

FEE SUMMARY

I. Estimated Direct Labor Costs			
CLASSIFICATION	TOTAL HOURS	HOURLY RATE	DIRECT LABOR COST
Principal / Project Manager	134	\$68.00	\$9,112
Senior Engr.	251	\$79.00	\$19,829
Design Engineer / Planner / Env Scientist	668	\$34.00	\$22,712
Designer / CADD	364	\$25.00	\$9,100
Clerical	126	\$20.00	\$2,520
TOTAL DIRECT LABOR COST	1543		\$63,273
II. Payroll Burden and OH Costs	Overhead = 157.76%		\$99,819
III. Direct Project Expenses			
Travel - Rental Car	2 Days	at \$100.00	\$200
Travel - Meals	12 Meals	at \$6.00	\$72
Travel - Airfare	2 Roundtrip	at \$600.00	\$1,200
Travel - Hotel	6 Days	at \$75.00	\$450
Specialty Support Staff	0 hours	at \$150.00	\$0
Technology Charge	1543 Hours	at \$3.70	\$5,709
General Photocopies	500 Sheets	at \$0.07	\$35
Telephone - Conference Calls	4 each	at \$30.00	\$120
Shipping	3 mailings	at \$20.00	\$60
TOTAL ESTIMATED DIRECT EXPENSE			\$7,846
IV. Subconsultant Expenses			
A. n/a			\$0
TOTAL SUBCONSULTANT EXPENSES			\$0
IV. Estimated Actual Costs (I + II + III), Rounded			\$170,938
V. FIXED FEE	13% x (I + II)		\$21,202
VII. Unauthorized Contingency	0% x (I + II + III)		\$0
VIII. Cost Plus Fixed Fees			\$192,140
Cost Estimate For HSIPR Grant Application		Use	\$200,000

**Cost Estimate - Iowa City Layover Facility Tier 2 NEPA
High-Speed Intercity Passenger Chicago to Iowa City Tier 2 NEPA Compliance**

Professional Staff Hour Tabulation

TASK	Prin.	Sr. NEPA	Env.	Designer/	Acctg/ Editor	Labor TOTAL
	PM	Sr. Rail	Planner/ Rail Eng.	GIS/ CADD		
1. Site Visits and Data Collection						
1.1 Site Visit	8	8	24	0	0	40
1.2 Data Collection	8	8	32	16	4	68
1.3 Technical Memorandum	4	4	40	32	8	88
	20	20	96	48	12	196
2. Agency and Public Involvement						
2.1 Agency Coordination	12	12	24	24		72
2.2 Public Involvement	24	24	40	24	12	124
	36	36	64	48	12	196
3. TIER 2 EA						
3.1 Introduction	1	1	8		2	12
3.2 Purpose and need	4	1	4		2	11
3.3 Alternatives	12	24	40	32	2	110
3.4 Affected Environment and Environmental Consequences	4	8			26	38
3.4.1 Introduction/Tier 1 EA cross reference			4	4		8
3.4.2 Transportation	4	24	24			52
3.4.3 Noise and Vibration	4	12	80	32		128
3.4.4 Air Quality		1	4			5
3.4.5 Hazardous Materials			20	4		24
3.4.6 Cultural Resources	4	4	32	12		52
3.4.7 Section 4(f) Resources	4	24	24	12		64
3.4.8 Waterways (Stream Relocation)			4	4	4	12
3.4.9 Wetlands			4	4		8
3.4.10 Water Quality			8			8
3.4.11 Floodplains			12	8		20
3.4.12 Construction Impacts	4	12	24	12		52
3.4.13 Irreversible and Irrecoverable Commitment of Resources		1	4			5
3.4.14 Indirect and Cumulative Impacts		1	4			5
3.4.15 Summary of Impacts		4	16		16	36
3.5 Comments and Coordination	8	12	24	24	8	76
3.6 Mitigation	12	24	40	40	8	124
3.7 TOC, A/A, References		1			8	9
3.8 Appendices	12	24	40	80	24	180
3.9 FONSI	1	8	40		6	55
	74	186	460	268	106	1094
4. TASK ORDER MANAGEMENT						
4.1 Management, Coordination, and Liaison	4	0	0	0	8	12
4.2 DOT Coordination	4	4	12	8	0	28
4.3 Quality Review of Project Deliverables	4	4	4	0	0	12
	12	8	16	8	8	52
TOTAL HOURS	118	226	596	348	126	1414

FEE SUMMARY

I. Estimated Direct Labor Costs			
CLASSIFICATION	TOTAL HOURS	HOURLY RATE	DIRECT LABOR COST
Principal / Project Manager	118	\$68.00	\$8,024
Senior Engr.	226	\$79.00	\$17,854
Design Engineer / Planner / Env Scientist	596	\$34.00	\$20,264
Designer / CADD	348	\$25.00	\$8,700
Clerical	126	\$20.00	\$2,520
TOTAL DIRECT LABOR COST	1414		\$57,362
II. Payroll Burden and OH Costs		Overhead = 157.76%	\$90,494
III. Direct Project Expenses			
Travel - Rental Car	2 Days	at \$100.00	\$200
Travel - Meals	12 Meals	at \$6.00	\$72
Travel - Airfare	2 Roundtrip	at \$600.00	\$1,200
Travel - Hotel	6 Days	at \$75.00	\$450
Specialty Support Staff	0 hours	at \$150.00	\$0
Technology Charge	1414 Hours	at \$3.70	\$5,232
General Photocopies	500 Sheets	at \$0.07	\$35
Telephone - Conference Calls	4 each	at \$30.00	\$120
Shipping	3 mailings	at \$20.00	\$60
TOTAL ESTIMATED DIRECT EXPENSE			\$7,369
IV. Subconsultant Expenses			
A. n/a			\$0
TOTAL SUBCONSULTANT EXPENSES			\$0
IV. Estimated Actual Costs (I + II + III), Rounded			\$155,225
V. FIXED FEE			13% x (I + II)
			\$19,221
VII. Unauthorized Contingency			0% x (I + II + III)
			\$0
VIII. Cost Plus Fixed Fees			\$174,446
Cost Estimate For HSIPR Grant Application		Use	\$180,000

**Cost Estimate - Colona Junction Tier 2 NEPA
High-Speed Intercity Passenger Chicago to Iowa City Tier 2 NEPA Compliance**

Professional Staff Hour Tabulation

TASK	Prin.	Sr. NEPA	Env.	Designer/	Acctg/	Labor
	PM	Sr. Rail	Planner/ Rail Eng.	GIS/ CADD	Editor	
1. Site Visits and Data Collection						
1.1 Site Visit	1	2	4	0	0	7
1.2 Data Collection	1	2	4	0	0	7
1.3 Technical Memorandum	1	2	4	4	0	11
	3	6	12	4	0	25
2. Agency and Public Involvement						
2.1 Agency Coordination	2	4	4	4		14
2.2 Public Involvement			2		2	4
	2	4	6	4	2	18
3. TIER 2 EA						
3.1 Introduction	1	1	4		2	8
3.2 Purpose and need	4	1	4		2	11
3.3 Alternatives	2	1	4	4	2	13
3.4 Affected Environment and Environmental Consequences	2	2			4	8
3.4.1 Introduction/Tier 1 EA cross reference			4	4		8
3.4.2 Transportation			4			4
3.4.3 Noise and Vibration		4	8			12
3.4.4 Air Quality		1	4			5
3.4.5 Hazardous Materials			8			8
3.4.6 Cultural Resources			4			4
3.4.7 Section 4(f) Resources			4			4
3.4.8 Waterways (Stream Relocation)			8	4		12
3.4.9 Wetlands			4	4		8
3.4.10 Water Quality			4			4
3.4.11 Floodplains			4			4
3.4.12 Construction Impacts		1	4			5
3.4.13 Irreversible and Irrecoverable Commitment of Resources		1	4			5
3.4.14 Indirect and Cumulative Impacts		1	4			5
3.4.15 Summary of Impacts		1	4			5
3.5 Comments and Coordination	1	1	4		1	7
3.6 Mitigation	1	1	4		1	7
3.7 TOC, A/A, References		1			4	5
3.8 Appendices			2		1	3
3.9 FONSI	1	4	4		4	13
	12	21	98	16	21	168
4. TASK ORDER MANAGEMENT						
4.1 Management, Coordination, and Liaison	4	0	0	0		4
4.2 DOT Coordination	4				0	4
4.3 Quality Review of Project Deliverables	4	4	0	0	0	8
	12	4	0	0	0	16
TOTAL HOURS	29	35	114	24	21	223

FEE SUMMARY

I. Estimated Direct Labor Costs			
CLASSIFICATION	TOTAL HOURS	HOURLY RATE	DIRECT LABOR COST
Principal / Project Manager	29	\$68.00	\$1,972
Senior Engr.	35	\$79.00	\$2,765
Design Engineer / Planner / Env Scientist	114	\$34.00	\$3,876
Designer / CADD	24	\$25.00	\$600
Clerical	21	\$20.00	\$420
TOTAL DIRECT LABOR COST	223		\$9,633
II. Payroll Burden and OH Costs		Overhead = 157.76%	\$15,197
III. Direct Project Expenses			
Travel - Rental Car	1 Days	at \$100.00	\$100
Travel - Meals	6 Meals	at \$6.00	\$36
Travel - Airfare	1 Roundtrip	at \$600.00	\$600
Travel - Hotel	1 Days	at \$75.00	\$75
Specialty Support Staff	0 hours	at \$150.00	\$0
Technology Charge	223 Hours	at \$3.70	\$825
General Photocopies	500 Sheets	at \$0.07	\$35
Telephone - Conference Calls	2 each	at \$30.00	\$60
Shipping	1 mailings	at \$20.00	\$20
TOTAL ESTIMATED DIRECT EXPENSE			\$1,751
IV. Subconsultant Expenses			
A. n/a			\$0
TOTAL SUBCONSULTANT EXPENSES			\$0
IV. Estimated Actual Costs (I + II + III), Rounded			\$26,581
V. FIXED FEE	13% x (I + II)		\$3,228
VII. Unauthorized Contingency	0% x (I + II + III)		\$0
VIII. Cost Plus Fixed Fees			\$29,809
Cost Estimate For HSIPR Grant Application		Use	\$30,000

**Cost Estimate for Eola Yard Permitting and Mitigation
High- Speed Intercity Passenger Chicago to Iowa City Tier 2 NEPA Compliance**

	Number	Units	Unit Cost	Total
Mitigation Concept Development				
Field Work	200	hours	\$ 110.00	\$ 22,000.00
Prepare Design	320	hours	\$ 110.00	\$ 35,200.00
Section 404 Permit Application				
Prepare Individual Permit Appl	240	Hours	\$ 90.00	\$ 21,600.00
Coordination With Corps of Engineers	240	Hours	\$ 120.00	\$ 28,800.00
Mitigation Final Design				
Final Design	240	Hours	\$ 110.00	\$ 26,400.00
Negotiate Conservcation Easements	180	Hours	\$ 125.00	\$ 22,500.00
Total				
Mitigation Construction				
Construction	4900	LF	\$250	\$ 1,225,000.00
Monitoring and Obervation	600	Hours	\$ 90.00	\$ 54,000.00
Contingency	25	Percent		\$ 306,250.00
Total Permitting and Mitigation Cost				\$ 1,741,750.00
			use	\$ 1,800,000.00

**Cost Estimate for Wyanet Connection Permitting and Mitigation
High- Speed Intercity Passenger Chicago to Iowa City Tier 2 NEPA Compliance**

	Number	Units	Unit Cost		Total
Mitigation Concept Development					
Field Work	40	hours	\$ 110.00	\$	4,400.00
Prepare Design	240	hours	\$ 110.00	\$	26,400.00
Section 404 Permit Application					
Prepare Individual Permit Appl	120	Hours	\$ 90.00	\$	10,800.00
Coordination With Corps of Engineers	80	Hours	\$ 120.00	\$	9,600.00
Mitigation Final Design					
Final Design	160	Hours	\$ 110.00	\$	17,600.00
Negotiate Conservcation Easements	80	Hours	\$ 125.00	\$	10,000.00
Total					
Mitigation Construction					
Construction	2070	LF	\$250	\$	517,500.00
Monitoring and Obervation	500	Hours	\$ 90.00	\$	45,000.00
Contingency	25	Percent		\$	129,375.00
Total Permitting and Mitigation Cost				\$	770,675.00
			use	\$	900,000.00

Iowa City Layover Facility Cost Estimate

IOWA CITY LAYOVER FACILITY						
ITEM	QTY	UNIT	UNIT COST	TOTAL COST	APPLICATION CATEGORY	UNIT COST DOCUMENTATION
TRACK	1312	TF	\$230	\$301,760	30.02	12" Track Ballast (\$31/TF); Wood RR Ties 24" OC (\$60 each); Rail #115 RE (CWR) (\$105/TF); OTM (\$5/TF); 6" Subballast (\$29/TF)
TURNOUT (#15 POTO)	1	EA	\$200,000	\$200,000	30.02	IAIS historical typical cost. Material Cost: no. 11 - \$40,000, no. 15 - \$54,000, no. 20 - \$65,000. Plus railroad freight, site preparation, installation, power operation equipment, contractors expenses and railroad signaling and commissioning costs.
TURNOUT (#15 HTOO)	1	EA	\$180,000	\$180,000	30.02	
HAND THROWN DOUBLE SWITCH POINT DERAIL	2	EA	\$25,000	\$50,000	30.02	prior experience
GRADING AND SUBBALLAST	2200	CY	\$64	\$140,800	30.02	earthwork (1.75 CY/FT at \$16/CY); subballast (0.9 CY/FT at \$40CY)
DRAINAGE	100	LF	\$140	\$14,000	30.02	prior experience
TRACKWORK SUBTOTAL				\$886,560		
			USE	\$900,000		
BUILDING	2000	SF	\$200	\$400,000	30.02	prior experience
SHED	1000	SF	\$100	\$100,000	30.02	prior experience
MISCELLANEOUS FACILITIES	1	LS	\$250,000	\$250,000	30.02	prior experience
FACILITIES SUBTOTAL			USE	\$750,000		
PARKING	6400	SF	\$10	\$64,000	30.02	prior experience
ACCESS ROAD	1300	SF	\$10	\$13,000	30.02	prior experience
MISCELLANEOUS PAVING (SIDEWALKS, ETC.)	5000	SF	\$5	\$25,000	30.02	prior experience
SITE LIGHTING	15	EA	\$5,000	\$75,000	30.02	prior experience
FENCING	2000	LF	\$30	\$60,000	30.02	prior experience
DETENTION POND	1	LS	\$150,000	\$150,000	30.02	prior experience
UTILITY SERVICE	1	LS	\$250,000	\$250,000	30.02	prior experience
AGGREGATE TRACK ACCESS PAD	755	CY	\$40	\$30,200	30.02	prior experience
DRIP PANS	400	TF	\$100	\$40,000	30.02	prior experience
LANDSCAPING	1	LS	\$50,000	\$50,000	30.02	prior experience
SITE GRADING	3025	CY	\$10	\$30,250	30.02	prior experience
MISCELLANEOUS SITEWORK	1	LS	\$50,000	\$50,000	30.02	prior experience
SITWORK SUBTOTAL				\$837,450		
			USE	\$900,000		
PROJECT CONSTRUCTION SUBTOTAL				\$ 2,550,000		
PROJECT CONSTRUCTION CONTINGENCY			30%	\$ 765,000		
TOTAL				\$3,315,000		

**Cost Estimate for Eola Yard Permitting and Mitigation
High- Speed Intercity Passenger Chicago to Iowa City Tier 2 NEPA Compliance**

	Number	Units	Unit Cost	Total
Mitigation Concept Development				
Field Work	200	hours	\$ 110.00	\$ 22,000.00
Prepare Design	320	hours	\$ 110.00	\$ 35,200.00
Section 404 Permit Application				
Prepare Individual Permit Appl	240	Hours	\$ 90.00	\$ 21,600.00
Coordination With Corps of Engineers	240	Hours	\$ 120.00	\$ 28,800.00
Mitigation Final Design				
Final Design	240	Hours	\$ 110.00	\$ 26,400.00
Negotiate Conservcation Easements	180	Hours	\$ 125.00	\$ 22,500.00
Total				
Mitigation Construction				
Construction	4900	LF	\$250	\$ 1,225,000.00
Monitoring and Obervation	600	Hours	\$ 90.00	\$ 54,000.00
Contingency	25	Percent		\$ 306,250.00
Total Permitting and Mitigation Cost				\$ 1,741,750.00
			use	\$ 1,800,000.00

**Cost Estimate for Wyanet Connection Permitting and Mitigation
High- Speed Intercity Passenger Chicago to Iowa City Tier 2 NEPA Compliance**

	Number	Units	Unit Cost		Total
Mitigation Concept Development					
Field Work	40	hours	\$ 110.00	\$	4,400.00
Prepare Design	240	hours	\$ 110.00	\$	26,400.00
Section 404 Permit Application					
Prepare Individual Permit Appl	120	Hours	\$ 90.00	\$	10,800.00
Coordination With Corps of Engineers	80	Hours	\$ 120.00	\$	9,600.00
Mitigation Final Design					
Final Design	160	Hours	\$ 110.00	\$	17,600.00
Negotiate Conservcation Easements	80	Hours	\$ 125.00	\$	10,000.00
Total					
Mitigation Construction					
Construction	2070	LF	\$250	\$	517,500.00
Monitoring and Obervation	500	Hours	\$ 90.00	\$	45,000.00
Contingency	25	Percent		\$	129,375.00
Total Permitting and Mitigation Cost				\$	770,675.00
			use	\$	900,000.00

Signal Cost Estimate

IAIS Signal Cost Estimate (Without PTC Interface Costs)

Illinois

M.P.	Location	Estimate Type	Labor	Material	Design	Total
128.78	Distant Signal	Install Active Distant Signal & Sign 1Trk	\$ 43,000	\$ 51,000	\$ 5,000	\$ 99,000
128.78	Distant Signal	AC Power Feed	\$ 7,000	\$ 10,000	\$ 1,000	\$ 18,000
128.78	Detector HBD/DED	1 Trk HBD/DED	\$ 52,000	\$ 146,000	\$ 8,000	\$ 206,000
130.25	CP 130 WYANET	1 POTO #24 w/ PO Derail & 3 Signals	\$ 255,000	\$ 314,000	\$ 33,000	\$ 602,000
130.25	CP 130 WYANET	2 ea Switch Heater	\$ 35,000	\$ 50,000	\$ 1,000	\$ 86,000
130.25	CP 130 WYANET	AC Power Feed, DATA Radio, & TAW's	\$ 30,000	\$ 35,000	\$ 6,000	\$ 71,000
132.22	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
134.19	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
136.36	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
136.37	4X4 Remote for Main & Reed	Install Remote 1 Trk GCP	\$ 33,000	\$ 44,000	\$ 8,000	\$ 85,000
136.4	Electric Lock or Leaving Signal	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
138.64	Detector HBD/DED	1 Trk HBD/DED	\$ 52,000	\$ 146,000	\$ 8,000	\$ 206,000
138.64	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
140.96	CP 141 MINERAL HOLD	DATA Radio, & HVLC Equipment	\$ 25,000	\$ 40,000	\$ 4,000	\$ 69,000
140.96	CP 141 MINERAL HOLD	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
143.21	Remote GCP for Patroit Way	Install Remote 2 Trk GCP	\$ 42,000	\$ 64,000	\$ 8,000	\$ 114,000
143.22	CP 143 EAST ANNAWAN	1 POTO #11 w/ PO Derail & 3 Signals	\$ 230,000	\$ 284,000	\$ 30,000	\$ 544,000
143.22	CP 143 EAST ANNAWAN	2 ea Switch Heater	\$ 35,000	\$ 50,000	\$ 1,000	\$ 86,000
143.22	CP 143 EAST ANNAWAN	AC Power Feed, DATA Radio, & TAW's	\$ 30,000	\$ 35,000	\$ 6,000	\$ 71,000
145.04	CP 145 WEST ANNAWAN	1 POTO #11 w/ PO Derail & 3 Signals	\$ 230,000	\$ 284,000	\$ 30,000	\$ 544,000
145.04	CP 145 WEST ANNAWAN	2 ea Switch Heater	\$ 35,000	\$ 50,000	\$ 1,000	\$ 86,000
145.04	CP 145 WEST ANNAWAN	AC Power Feed, DATA Radio, & TAW's	\$ 30,000	\$ 35,000	\$ 6,000	\$ 71,000
147.5	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
147.5	Detector HBD/DED	1 Trk HBD/DED	\$ 52,000	\$ 146,000	\$ 8,000	\$ 206,000
149.98	CP 150 EAST ATKINSON	1 POTO #15 w/ PO Derail & 3 Signals	\$ 230,000	\$ 284,000	\$ 30,000	\$ 544,000
149.98	CP 150 EAST ATKINSON	2 ea Switch Heater	\$ 35,000	\$ 50,000	\$ 1,000	\$ 86,000
149.98	CP 150 EAST ATKINSON	AC Power Feed, DATA Radio, & TAW's	\$ 30,000	\$ 35,000	\$ 6,000	\$ 71,000
151.07	Electric Lock or Leaving Signal	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
151.94	Remote GCP for Xings East	Install Remote 2 Trk GCP	\$ 42,000	\$ 64,000	\$ 8,000	\$ 114,000
151.95	CP 152 WEST ATKINSON	1 POTO #15 w/ PO Derail & 3 Signals	\$ 230,000	\$ 284,000	\$ 30,000	\$ 544,000
151.95	CP 152 WEST ATKINSON	2 ea Switch Heater	\$ 35,000	\$ 50,000	\$ 1,000	\$ 86,000
151.95	CP 152 WEST ATKINSON	AC Power Feed, DATA Radio, & TAW's	\$ 30,000	\$ 35,000	\$ 6,000	\$ 71,000
154.24	Signal Intermediate Back to Back	Install Remote 2 Trk GCP	\$ 42,000	\$ 64,000	\$ 8,000	\$ 114,000
156.54	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
158.4	Electric Lock or Leaving Signal	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
158.8	GENESEO Leaving Signal EB	Install Station Leaving Signal 1Trk	\$ 43,000	\$ 51,000	\$ 5,000	\$ 99,000
159.38	GENESEO Leaving Signal WB	Install Station Leaving Signal 1Trk	\$ 43,000	\$ 51,000	\$ 5,000	\$ 99,000
159.38	Remote for Xings West & East	Install Additional DAX Cable to 159.04 to.68	\$ 12,000	\$ 12,000	\$ 1,000	\$ 25,000
159.38	Detector HBD/DED	1 Trk HBD/DED	\$ 52,000	\$ 146,000	\$ 8,000	\$ 206,000
161.54	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
163.7	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
165.86	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
168.02	CP 168 COLONA HOLD	DATA Radio, & HVLC Equipment	\$ 25,000	\$ 40,000	\$ 4,000	\$ 69,000
168.02	CP 168 COLONA HOLD	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
169.95	COLONA BNSF Interlocker	Rearrange Circuits in Interlocker	\$ 300,000	\$ 400,000	\$ 50,000	\$ 750,000
171.78	Detector HBD/DED	1 Trk HBD/DED	\$ 52,000	\$ 146,000	\$ 8,000	\$ 206,000
171.82	CP 172 EAST SILVIS	1 POTO #15 w/ PO Derail & 3 Signals	\$ 230,000	\$ 284,000	\$ 30,000	\$ 544,000
171.82	CP 172 EAST SILVIS	2 ea Switch Heater	\$ 35,000	\$ 50,000	\$ 1,000	\$ 86,000
171.82	CP 172 EAST SILVIS	AC Power Feed, DATA Radio, & TAW's	\$ 30,000	\$ 35,000	\$ 6,000	\$ 71,000
171.9	East End SilvisYard	Install Switch Circuit Controler NWTTPR	\$ 19,000	\$ 11,000	\$ 1,000	\$ 31,000
172.6	Silvis Electric Lock X-Over	Electric Lock Crossover	\$ 132,000	\$ 118,000	\$ 14,000	\$ 264,000
173.4	Electric Lock or Leaving Signal	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
174.1	West End Silvis Yard	Install Switch Circuit Controler NWTTPR	\$ 19,000	\$ 11,000	\$ 1,000	\$ 31,000
174.2	CP 174 WEST SILVIS	1 POTO #15 w/ PO Derail & 3 Signals	\$ 230,000	\$ 284,000	\$ 30,000	\$ 544,000
174.2	CP 174 WEST SILVIS	2 ea Switch Heater	\$ 35,000	\$ 50,000	\$ 1,000	\$ 86,000
174.2	CP 174 WEST SILVIS	AC Power Feed, DATA Radio, & TAW's	\$ 30,000	\$ 35,000	\$ 6,000	\$ 71,000
174.21	Remote GCP for Xings East	Install Remote 2 Trk GCP	\$ 42,000	\$ 64,000	\$ 8,000	\$ 114,000
174.25	Electric Lock or Leaving Signal	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
175.46	CP 175 7TH AVE.	6ea #15 POTO'sw/ 1PO Derails& 5 Signals	\$ 394,000	\$ 445,000	\$ 41,000	\$ 880,000
175.46	CP 175 7TH AVE.	7 ea Switch Heater	\$ 110,000	\$ 190,000	\$ 1,000	\$ 301,000
175.46	CP 175 7TH AVE.	AC Power Feed, DATA Radio, & TAW's	\$ 30,000	\$ 35,000	\$ 6,000	\$ 71,000
177.12	Signal Intermediate Back to Back	2 Trk Back to Back w/ DED	\$ 78,000	\$ 71,000	\$ 11,000	\$ 160,000
177.12	Remote GCP for Xings East	Install Remote 2 Trk GCP	\$ 42,000	\$ 64,000	\$ 8,000	\$ 114,000
177.37	East End Scrap Yard	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
177.66	East End BN Siding	Install Switch Circuit Controler NWTTPR	\$ 19,000	\$ 11,000	\$ 1,000	\$ 31,000
178.02	West End Scrap Yard	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
178.25	West End BN Siding	Install Switch Circuit Controler NWTTPR	\$ 19,000	\$ 11,000	\$ 1,000	\$ 31,000
178.76	Circus Ramp Sw (Do Not Clear)	Install Switch Circuit Controler NWTTPR	\$ 19,000	\$ 11,000	\$ 1,000	\$ 31,000
179	Signal Intermed Leaving Station	Install Station Leaving Signal 1Trk	\$ 43,000	\$ 51,000	\$ 5,000	\$ 99,000
179.61	CP 179 MOLINE	4 POTO #15 w/ PO Derail & 4 Signals	\$ 335,000	\$ 357,000	\$ 44,000	\$ 736,000
179.61	CP 179 MOLINE	5 ea Switch Heater	\$ 70,000	\$ 90,000	\$ 1,000	\$ 161,000
179.61	CP 179 MOLINE	AC Power Feed, DATA Radio, & TAW's	\$ 30,000	\$ 35,000	\$ 6,000	\$ 71,000
180.38	Distant Signal	Install Active Distant Signal & Sign 1Trk	\$ 43,000	\$ 51,000	\$ 5,000	\$ 99,000
180.38	Distant Signal	AC Power Feed	\$ 7,000	\$ 10,000	\$ 1,000	\$ 18,000
181.37	Distant Signal	Retire existing equip	\$ 4,000	\$ 1,000	\$ 1,000	\$ 6,000
181.56	CP 181 WEST ROCK ISLAND	1 POTO #15 w/ PO Derail & 3 Signals	\$ 230,000	\$ 284,000	\$ 30,000	\$ 544,000
181.56	CP 181 WEST ROCK ISLAND	2 ea Switch Heater	\$ 35,000	\$ 50,000	\$ 1,000	\$ 86,000
181.56	CP 181 WEST ROCK ISLAND	AC Power Feed, DATA Radio, & TAW's	\$ 30,000	\$ 35,000	\$ 6,000	\$ 71,000
181.8	Arsenal Lead Track	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000

IAIS Signal Cost Estimate (Without PTC Interface Costs)						
181.89	East End Arsenal Siding HTTO	Install Electric Lock w/Bridge Locking	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
181.93	East End Arsenal Siding Derail	Install Electric Lock w/Bridge Locking	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
182.23	West End Arsenal Siding Derail	Install Electric Lock w/Bridge Locking	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
182.45	West End Arsenal Siding HTTO	Install Electric Lock w/Bridge Locking	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
182.2	BRIDGE 1882 Swingspan *	New Bridge Interlocking Controls,POderails	\$ 1,000,000	\$ 1,000,000	\$ 200,000	\$ 2,200,000
			\$ 6,948,000	\$ 8,411,000	\$ 954,000	\$ 16,313,000
		Additive for Wayside Signal Equipment 20%				\$ 3,262,600
	<i>* previous documentation used as information only for assisting in developing this cost (COE - Govt Br Cost Est)</i>					
Total Wayside Signal Estimate in Illinois without PTC Costs						\$ 19,575,600

IAIS Signal Cost Estimate (Without PTC Interface Costs)

Iowa

M.P.	Location	Estimate Type	Labor	Material	Design	Total
183.7	CP 184 MO DIV JCT	1 POTO #15 w/ PO Derail & 3 Signals	\$ 230,000	\$ 284,000	\$ 30,000	\$ 544,000
183.7	CP 184 MO DIV JCT	2 ea Switch Heater	\$ 35,000	\$ 50,000	\$ 1,000	\$ 86,000
183.7	CP 184 MO DIV JCT	AC Power Feed, DATA Radio, & TAW's	\$ 30,000	\$ 35,000	\$ 6,000	\$ 71,000
185.75	CP 186 FARNUM HOLD	DATA Radio, & HVLC Equipment	\$ 25,000	\$ 40,000	\$ 4,000	\$ 69,000
185.75	CP 186 FARNUM HOLD	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
185.75	Detector HBD/DED	1 Trk HBD/DED	\$ 52,000	\$ 146,000	\$ 8,000	\$ 206,000
186.17	Electric Lock or Leaving Signal	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
186.2	Electric Lock or Leaving Signal	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
186.29	Electric Lock or Leaving Signal	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
187.58	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
189.41	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
191.08	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
192.65	Remote GCP for Xings East	Install Remote 2 Trk GCP	\$ 42,000	\$ 64,000	\$ 8,000	\$ 114,000
192.66	CP 193 EAST WALCOTT	1 POTO #10 w/ PO Derail & 3 Signals	\$ 230,000	\$ 284,000	\$ 30,000	\$ 544,000
192.66	CP 193 EAST WALCOTT	2 ea Switch Heater	\$ 35,000	\$ 50,000	\$ 1,000	\$ 86,000
192.66	CP 193 EAST WALCOTT	AC Power Feed, DATA Radio, & TAW's	\$ 30,000	\$ 35,000	\$ 6,000	\$ 71,000
194.36	CP 194 WEST WALCOTT	1 POTO #15 w/ PO Derail & 3 Signals	\$ 230,000	\$ 284,000	\$ 30,000	\$ 544,000
194.36	CP 194 WEST WALCOTT	2 ea Switch Heater	\$ 35,000	\$ 50,000	\$ 1,000	\$ 86,000
194.36	CP 194 WEST WALCOTT	AC Power Feed, DATA Radio, & TAW's	\$ 30,000	\$ 35,000	\$ 6,000	\$ 71,000
194.9	Electric Lock or Leaving Signal	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
194.91	1 Trk Regen Repeater		\$ 26,000	\$ 34,000	\$ 4,000	\$ 64,000
196.33	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
198.39	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
198.39	Detector HBD/DED	1 Trk HBD/DED	\$ 52,000	\$ 146,000	\$ 8,000	\$ 206,000
200.45	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
201.9	Electric Lock or Leaving Signal	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
202.4	Electric Lock or Leaving Signal	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
202.61	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
203.1	Electric Lock or Leaving Signal	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
203.5	Electric Lock or Leaving Signal	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
204.5	Electric Lock or Leaving Signal	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
204.51	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
206.58	CP 207 TWIN STATES HOLD	DATA Radio, & HVLC Equipment	\$ 25,000	\$ 40,000	\$ 4,000	\$ 69,000
206.58	CP 207 TWIN STATES HOLD	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
207.68	Electric Lock or Leaving Signal	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
208.06	Electric Lock or Leaving Signal	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
208.19	Remote GCP for Xings East	Install Remote 2 Trk GCP	\$ 42,000	\$ 64,000	\$ 8,000	\$ 114,000
208.2	CP 208 EAST WILTON	POTO #15 X-Over & 4 Signals	\$ 230,000	\$ 284,000	\$ 30,000	\$ 544,000
208.2	CP 208 EAST WILTON	2 ea Switch Heater	\$ 35,000	\$ 50,000	\$ 1,000	\$ 86,000
208.2	CP 208 EAST WILTON	AC Power Feed, DATA Radio, & TAW's	\$ 30,000	\$ 35,000	\$ 6,000	\$ 71,000
208.83	J M Spur	Install Switch Circuit Controler NWTTPR	\$ 19,000	\$ 11,000	\$ 1,000	\$ 31,000
209.4	North Star	Install Switch Circuit Controler NWTTPR	\$ 19,000	\$ 11,000	\$ 1,000	\$ 31,000
209.81	2 Trk Regen Repeater		\$ 39,000	\$ 49,000	\$ 7,000	\$ 95,000
210.9	CP 211 WEST WILTON	1 POTO #10 w/ PO Derail & 3 Signals	\$ 230,000	\$ 284,000	\$ 30,000	\$ 544,000
210.9	CP 211 WEST WILTON	2 ea Switch Heater	\$ 35,000	\$ 50,000	\$ 1,000	\$ 86,000
210.9	CP 211 WEST WILTON	AC Power Feed, DATA Radio, & TAW's	\$ 30,000	\$ 35,000	\$ 6,000	\$ 71,000
210.91	Remote GCP for Xings East	Install Remote 2 Trk GCP	\$ 42,000	\$ 64,000	\$ 8,000	\$ 114,000
212.3	Electric Lock or Leaving Signal	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
212.5	606836W Public (X-Bucks)	1 GCP & 4 Gates (Must Be Steel House)	\$ 82,000	\$ 207,000	\$ 16,000	\$ 305,000
213.27	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
213.27	Detector HBD/DED	1 Trk HBD/DED	\$ 52,000	\$ 146,000	\$ 8,000	\$ 206,000
215.18	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
216.3	Atalissa Elevator Trk	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
216.47	1 Trk Regen Repeater		\$ 26,000	\$ 34,000	\$ 4,000	\$ 64,000
217.1	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
219	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
220.9	CP 221 E LIBERTY HOLD	DATA Radio, & HVLC Equipment	\$ 25,000	\$ 40,000	\$ 4,000	\$ 69,000
220.9	CP 221 E LIBERTY HOLD	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
221.3	East End East Liberty	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
222.2	West End East Liberty	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
222.6	East End West Liberty	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
222.9	West End West Liberty	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
222.95	CP 223 W LIBERTY HOLD	DATA Radio, & HVLC Equipment	\$ 25,000	\$ 40,000	\$ 4,000	\$ 69,000
222.95	CP 223 W LIBERTY HOLD	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
225.27	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
225.27	Detector HBD/DED	1 Trk HBD/DED	\$ 52,000	\$ 146,000	\$ 8,000	\$ 206,000
226.85	Downey Elevator Track	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
227.6	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
229.98	CP 230 EAST AMERICAN	1 POTO #10 w/ PO Derail & 3 Signals	\$ 230,000	\$ 284,000	\$ 30,000	\$ 544,000
229.98	CP 230 EAST AMERICAN	2 ea Switch Heater	\$ 35,000	\$ 50,000	\$ 1,000	\$ 86,000
229.98	CP 230 EAST AMERICAN	AC Power Feed, DATA Radio, & TAW's	\$ 30,000	\$ 35,000	\$ 6,000	\$ 71,000
232.3	CP 232WEST AMERICAN	1 POTO #15 w/ PO Derail & 3 Signals	\$ 230,000	\$ 284,000	\$ 30,000	\$ 544,000
232.3	CP 232WEST AMERICAN	2 ea Switch Heater	\$ 35,000	\$ 50,000	\$ 1,000	\$ 86,000
232.3	CP 232WEST AMERICAN	AC Power Feed, DATA Radio, & TAW's	\$ 30,000	\$ 35,000	\$ 6,000	\$ 71,000
233.75	Industry Track	Install Electric Lock or Leaving Signal	\$ 58,000	\$ 49,000	\$ 8,000	\$ 115,000
233.56	CP 234 SCOTT BLVD	1 POTO #15 w/ PO Derail & 3 Signals	\$ 230,000	\$ 284,000	\$ 30,000	\$ 544,000
233.56	CP 234 SCOTT BLVD	2 ea Switch Heater	\$ 35,000	\$ 50,000	\$ 1,000	\$ 86,000
233.56	CP 234 SCOTT BLVD	AC Power Feed, DATA Radio, & TAW's	\$ 30,000	\$ 35,000	\$ 6,000	\$ 71,000
235.07	2 Trk Regen Repeater	Install 2 Trk Regen Repeater	\$ 39,000	\$ 49,000	\$ 7,000	\$ 95,000

IAIS Signal Cost Estimate (Without PTC Interface Costs)						
236.2	#11 HT X-Over	Install Switch Circuit Controler HT X-Over	\$ 48,000	\$ 32,000	\$ 3,000	\$ 83,000
236.3	East End North Siding	Install Switch Circuit Controler NWTTPR	\$ 19,000	\$ 11,000	\$ 1,000	\$ 31,000
236.6	West End North Siding	Install Switch Circuit Controler NWTTPR	\$ 19,000	\$ 11,000	\$ 1,000	\$ 31,000
236.78	#11 HT X-Over	Install Switch Circuit Controler HT X-Over	\$ 48,000	\$ 32,000	\$ 3,000	\$ 83,000
236.8	Iowa City Leaving Signal EB	Install Station Leaving Signal 1Trk	\$ 43,000	\$ 51,000	\$ 5,000	\$ 99,000
236.99	CP 237 WEST IOWA CITY	1 POTO #15 w/ PO Derail & 3 Signals	\$ 230,000	\$ 284,000	\$ 30,000	\$ 544,000
236.99	CP 237 WEST IOWA CITY	2 ea Switch Heater	\$ 35,000	\$ 50,000	\$ 1,000	\$ 86,000
236.99	CP 237 WEST IOWA CITY	AC Power Feed, DATA Radio, & TAW's	\$ 30,000	\$ 35,000	\$ 6,000	\$ 71,000
238.37	Detector HBD/DED	1 Trk HBD/DED	\$ 52,000	\$ 146,000	\$ 8,000	\$ 206,000
238.37	CP 238 HAWKEYE HOLD	DATA Radio, & HVLC Equipment	\$ 25,000	\$ 40,000	\$ 4,000	\$ 69,000
238.37	CP 238 HAWKEYE HOLD	1 Tk Back - Back (Begin CTC&Begin TWC)	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
238.37	CP 238 HAWKEYE HOLD	AC Power Feed - Rearrange Existing	\$ 1,000	\$ 1,000	\$ 1,000	\$ 3,000
239.58	Signal Intermediate Back to Back	1 Trk Back to Back w/ DED	\$ 45,000	\$ 53,000	\$ 5,000	\$ 103,000
240.72	1 Trk Regen Repeater	Install 1 Track Regen Repeater	\$ 26,000	\$ 34,000	\$ 4,000	\$ 64,000
240.74	Industry Track (Do Not Clear)	Install Switch Circuit Controler NWTTPR	\$ 19,000	\$ 11,000	\$ 1,000	\$ 31,000
241.62	CP 241 CORALVILLE	1 POTO #15 w/ PO Derail & 3 Signals	\$ 230,000	\$ 284,000	\$ 30,000	\$ 544,000
241.62	CP 241 CORALVILLE	2 ea Switch Heater	\$ 35,000	\$ 50,000	\$ 1,000	\$ 86,000
241.62	CP 241 CORALVILLE	AC Power Feed, DATA Radio, & TAW's	\$ 30,000	\$ 35,000	\$ 6,000	\$ 71,000
241.62	Remote GCP for Xings East	Install Remote 2 Trk GCP	\$ 44,000	\$ 66,000	\$ 8,000	\$ 118,000
241.84	East End CORALVILLE HT Derail	Install Switch Circuit Controler NWTTPR	\$ 19,000	\$ 11,000	\$ 1,000	\$ 31,000
241.89	East End CORALVILLE #15HTTO	Install Switch Circuit Controler NWTTPR	\$ 19,000	\$ 11,000	\$ 1,000	\$ 31,000
242.64	Distant Signal	Install Active Distant Signal & Sign 1Trk	\$ 43,000	\$ 51,000	\$ 5,000	\$ 99,000
242.64	Distant Signal	AC Power Feed - Rearrange Existing	\$ 1,000	\$ 1,000	\$ 1,000	\$ 3,000
			\$ 6,062,000	\$ 7,521,000	\$ 781,000	\$ 14,364,000
		Additive for Wayside Signal Equipment 20%				\$ 2,872,800
Total Wayside Signal Estimate in Iowa						\$ 17,236,800

November 19, 2001

Corp of Engineers
Attn: Perry Hubert PM-M
P.O. Box 2004
Rock Island, IL 61204-2004
RE: Arsenal Bridge

Dear Mr. Hubert,

The following is a preliminary range of magnitude outlining possible scenarios to address the signaling on the Mississippi Arsenal Bridge. These scenarios are based on comments and concerns addressed during a meeting and preliminary site investigation on July 31, 2001 with all applicable parties in attendance.

The concerns addressed were rail shorting, wire and cable condition, condition of plans, etc., as well as other miscellaneous conditions observed. These conditions were used as the basis to develop this response.

Scenario 1

1. Install a vital microprocessor on the bridge with vital radio (spread spectrum) links to secondary microprocessors (2) located on either side of the bridge.
2. Install a new control panel in the operator's room.
3. Renew cabling to existing functions located on the bridge.
4. Interface to existing equipment located on the bridge.
5. Remove DC Track Circuits and replace with vital wheel counters.
6. Renew signals and cable at the home signal locations.

Estimated Cost: \$1,911,454.85

Scenario 2

1. Install vital microprocessors (2) at the interlocking limits, either side of the bridge.
2. Install a new control panel in the operator's room.
3. Retain DC Track Circuits.
4. Communications between the tower and microprocessor locations will be via vital radio (spread spectrum) links

5. Renew signals and cable at the home signal locations.

Estimated Cost: \$1,787,409.81

Scenario 3

1. Maintain the existing technology, renew the components, e.g. commutator rings, cable, etc.
2. Renew signals and cable at the home signal locations.

Estimated Cost: \$776,791.40

These estimates are strictly preliminary and shouldn't be considered detailed estimates. If you would like detailed estimates we can do that, but it will take at least three working days to accomplish, provided funding is in place to cover our costs. By providing these preliminary estimates perhaps the Army Corp can choose one scenario or combination of scenarios for us to prepare a final detailed estimate. Please let us know how you would like us to proceed.

The three- (3) scenarios do not include any bridge, electrical, track or airline work and does not include any work to the approach signals to the bridge. The estimates also do not entail any changes in bridge or train operation, which are items that you may want to visit to ensure future expandability of the signaling system.

Cost for further site investigation to develop one of these scenarios hasn't been included in any of the three scenarios.

Very Truly Yours
Balfour Beatty Rail Systems, INC.

Rick Brown
Director Business Development

CC: Pat Sheldon(IAIS)

IAIS Grade Crossing Signal Estimate (Without PTC Interface Costs)

Illinois

M.P.	Location	Signal Estimate Type	Sig Labor	Sig Material	Sig Design	Signal Total
130.78	863562D Public Xing (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
133.04	863564? Public Xing (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
133.86	863565Y Public Xing (6X6w/Gates)	Add GCP, Shunts, Batt, Rect, LED Lights	\$ 22,000	\$ 56,000	\$ 3,000	\$ 81,000
134.84	863566F Public Xing (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
136.34	863568U Mason St (FlashersNow	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
136.48	863569B Main St (Old Gates Ect	Install 2 Trk GCP & 2 Gates	\$ 87,000	\$ 125,000	\$ 9,000	\$ 221,000
136.82	863570V Reed St (Flashers Now)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
137.32	863572J Public Xing (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
140.26	606928J Public Xing (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
140.98	606929R Public Xing (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
141.88	606930K Lincoln St (Flashers)	Close Crossing and retire existing equip	\$ 8,000	\$ 1,000	\$ 1,000	\$ 10,000
142.8	Patroit Way (New w/CWT	Adjust for new train speed	\$ 2,000	\$ 2,000	\$ 1,000	\$ 5,000
142	606931S Center St (Flashers)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
145.12	Private (New Xing)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
145.64	606938P East St (6X6 wFlashers)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
145.78	606939W Main St (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
145.9	606940R State St (Flashers)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
147.22	606942E Public Xing (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
148.28	606945A Public Xing (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
149.96	606948V Industrial Xing	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
151.36	606949C Spring St. (6X6w/Gates	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
151.56	606950W School St. (Flashers)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
151.76	606951D Church St. (6X6w/Gates	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
152.94	606952K Public Xing (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
153.94	606953S Public Xing (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
154.48	606954Y Public Xing (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
155.48	606956M Public Xing (6X6w/Gates	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
156.52	606957U Public Xing (X-Bucks)	Install 2 Trk GCP & 2 Gates	\$ 87,000	\$ 125,000	\$ 9,000	\$ 221,000
157.02	606958B Public Xing (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
157.3	606959H Ind Xing (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
157.68	606960C Public (6X6w/Gates)	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
158.62	606962R Chicago St(6X6w/Gates)	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
159.04	606963X Spring St (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
159.18	606964E Oakwood St (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
159.28	606965L State St (Flashers)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
159.36	606966T Center St (Flashers)	Install 2 Trk GCP & 2 Gates	\$ 87,000	\$ 125,000	\$ 9,000	\$ 221,000
159.68	606968G Stewart St (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
160.7	606969N Public Xing (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
161.76	606970H Public Xing (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
163.34	606971P Public Xing (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
164.8	606972W Public Xing (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
168	606974K Public Xing (Old Equip)	Install 2 Trk GCP & 2 Gates	\$ 87,000	\$ 125,000	\$ 9,000	\$ 221,000
169.72	606976Y Broadway (Old Equip)	Install 2 Trk GCP & 2 Gates	\$ 87,000	\$ 125,000	\$ 9,000	\$ 221,000
170	606977F Cleveland (4X6w/Gates)	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
171.8	916106D N First Ave. (Old Equip)	Install 2 Trk GCP & 2 Gates	\$ 87,000	\$ 125,000	\$ 9,000	\$ 221,000
174.32	605942B 19th St. (Good Eqiup)	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
174.48	605941Y 17th St (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
174.74	605940M 13th St. (Good Eqiup)	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
175.04	605939T 10th St (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
175.16	605938L 9th St (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
175.34	605937E 7th St (Old Equip)	Install 2 Trk GCP & 2 Gates	\$ 87,000	\$ 125,000	\$ 9,000	\$ 221,000
175.76	605935R 3rd St (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
176.12	605934J 1st St (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
177.1	605933C 41st St (Old Equip)	Install 2 Trk GCP & 2 Gates	\$ 87,000	\$ 125,000	\$ 9,000	\$ 221,000
177.6	605932V 34th St (Old Equip)	Install 2 Trk GCP & 2 Gates	\$ 87,000	\$ 125,000	\$ 9,000	\$ 221,000
178.7	605930G 23rd St. (Good Eqiup)	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
178.92	605930G 19th St. (Good Eqiup)	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
178.98	605929M 17th St (Good Equip)	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
179.14	604314S 15th St. (Good Eqiup)	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
179.4	604316F 12th St. (Good Eqiup)	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
179.76	604319B 6th St (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
180.24	604322J 1ST St (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
180.36	604324X 44th St. (Good Eqiup)	Install 2 Trk GCP & 2 Gates	\$ 87,000	\$ 125,000	\$ 9,000	\$ 221,000
			\$ 4,135,000	\$ 5,383,000	\$ 430,000	\$ 9,948,000
		Additive for Grade Crossing Signal Equipment 20%				\$ 1,989,600
<p><i>Note the grade crossing changes from Rock Island to 7th Ave in Moline are covered by changing the additive from 10% to 20%.</i></p>						
Illinois Total Grade Crossing Signal Estimate						\$ 11,937,600

IAIS Grade Crossing Signal Estimate (Without PTC Interface Costs)

Iowa

M.P.	Location	Signal Estimate Type	Sig Labor	Sig Material	Sig Design	Signal Total
183.08	604341N Western St (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
183.16	604342V Gaines St (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
183.24	604342C Brown St (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
183.31	604344J Warren St (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
183.57	603892T Marquette St (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
183.65	603893A Taylor St (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
185.87	606780E Central Pk (Good Equip)	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
186.5	606781L PRIVATE RES XING	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
186.93	393008N Fairmont St (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
189.18	606787C Utah Ave. (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
190.28	606792Y 110th St. (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
191.24	606794M Public (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
192.33	606797H Public (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
192.65	606798P Public (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
194.38	606803J 70th St (Good Equip)	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
194.8	606804R Henry St (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
194.93	606803Y Main St (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
196.35	606807L Public (X-Bucks)	Install 2 Trk GCP & 2 Gates	\$ 87,000	\$ 125,000	\$ 9,000	\$ 221,000
199.25	606808T Iowa St (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
200.43	606809A Public (X-Bucks)	Install 2 Trk GCP & 2 Gates	\$ 87,000	\$ 125,000	\$ 9,000	\$ 221,000
201.45	606811B 14th Ave (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
201.88	606812H 8th Ave. (Good Equip)	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
202.03	606813P 6th Ave. (Good Equip)	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
202.13	606814W 5th Ave. (Good Equip)	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
202.6	917612H (PTMW 6X6&FL	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
203.3	Consolidate Industry Priv. Xings	Install 2 Trk GCP & 2 Gates	\$ 87,000	\$ 125,000	\$ 9,000	\$ 221,000
204.53	606818Y Trall Ave (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
205.53	606819F Thayer Ave (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
206.6	606821G Public (X-Bucks)	Install 2 Trk GCP & 2 Gates	\$ 87,000	\$ 125,000	\$ 9,000	\$ 221,000
207.35	606822N Cypress St(Good Equip)	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
207.57	606824C Chestnut (Good Equip)	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
207.8	939007G W 1st St (verify)	Install 2 Trk GCP & 2 Gates	\$ 87,000	\$ 125,000	\$ 9,000	\$ 221,000
208	606828E Liberty St (Good Equip)	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
209.83	606832U Public (Good Equip)	Install 4 Trk GCP & 2 Gates	\$ 99,000	\$ 145,000	\$ 12,000	\$ 256,000
211	606834H 6th St (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
211.15	606835P 4th St (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
212.5	606836W Public (X-Bucks)	1 GCP & 2 Gates (Must Be Steel House)	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
213.25	606838K Public (X-Bucks)	Install 2 Trk GCP & 2 Gates	\$ 87,000	\$ 125,000	\$ 9,000	\$ 221,000
215.33	606839S Public (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
215.83	606840L Lundy St (Good Equip)	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
215.87	606841T Cherry St (Old Equip)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
216.05	606842A Oak St (Old Equip)	Install 2 Trk GCP & 2 Gates	\$ 87,000	\$ 125,000	\$ 9,000	\$ 221,000
216.45	606843G Hwy 6 (Good Equip)	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
217.75	606839S Iron City Ave (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
219.97	606849X Green Ave (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
220.97	606850S Columbus St (FLS only)	Install 2 Trk GCP & 2 Gates	\$ 87,000	\$ 125,000	\$ 9,000	\$ 221,000
221.02	606851Y Calhoun St (FLS only)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
221.25	606852F Priarie St (FLS only)	1 GCP & 2 Gates (Need to Verify)	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
222.52	606854U Hwy 6 (4X6 Cants only)	1 GCP & 2 Gates use existing Cants	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
226.57	606860X Baker St (FLS only)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
226.82	606861E Adams Sy (X-Bucks)	Install 2 Trk GCP & 2 Gates	\$ 87,000	\$ 125,000	\$ 9,000	\$ 221,000
228.55	606863T Oasis Rd (X-Bucks)	Install 2 Trk GCP & 2 Gates	\$ 87,000	\$ 125,000	\$ 9,000	\$ 221,000
232.52	606869J 420th St (FLS only)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
232.75	606870D Taft Ave (X-Bucks)	1 GCP & 2 Gates	\$ 80,000	\$ 95,000	\$ 8,000	\$ 183,000
233.9	606872S Scott Blvd (Good Equip)	Install 2 Trk GCP & 2 Gates	\$ 87,000	\$ 125,000	\$ 9,000	\$ 221,000
235.07	606873Y First Ave. (Double Trk)	Install 4 Trk GCP & 2 Gates	\$ 99,000	\$ 145,000	\$ 12,000	\$ 256,000
236.82	606878H Dubuque St (Double Trk	4 Trk GCP & 2 Gates Cohab w/ Wayside	\$ 74,000	\$ 78,000	\$ 12,400	\$ 164,400
236.92	606879P Clinton St (Double Trk)	4 Trk GCP & 2 Gates Cohab w/ Wayside	\$ 74,000	\$ 78,000	\$ 12,400	\$ 164,400
237.5	606882X Greenwood Dr (FLS only)	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
238.35	914517C Finkbine Dr (FLS only)	Add 2 Trk GCP	\$ 28,000	\$ 73,000	\$ 4,000	\$ 105,000
239.6	606885T 10th St (Good Equip)	Add 2 Trk GCP	\$ 28,000	\$ 73,000	\$ 4,000	\$ 105,000
240.7	606887G 22nd Ave (Good Equip)	Add 2 Trk GCP	\$ 28,000	\$ 73,000	\$ 4,000	\$ 105,000
241.18	917610U 25th Ave (Good Equip)	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
241.58	New Xing to Coralville Station	4 Trk GCP & 2 Gates Cohab w/ Wayside	\$ 74,000	\$ 78,000	\$ 12,400	\$ 164,400
242.02	608006A 340th St (Old Equip)	Add GCP	\$ 21,000	\$ 43,000	\$ 3,000	\$ 67,000
242.5	917609A Westcor Dr.	Add 2 Trk GCP	\$ 28,000	\$ 73,000	\$ 4,000	\$ 105,000
			\$ 4,402,000	\$ 5,885,000	\$ 479,200	\$ 10,766,200
		Additive for Grade Crossing Signal Equipment 20%				\$ 2,153,240
		Iowa Total Grade Crossing Signal Estimate				\$ 12,919,440

Crossing Improvements							
Iowa Interstate MP 130 - 237							
M.P.	FRA I.D.	Street	Location	Existing Signals	Existing Surface	Ex Status	Status
130.78	863562D	1200 St E		Crossbucks			improve - local
132.68	863563?	Private - Farm				Closed	gone
133.04	863564?	CR-975 E		Crossbucks			okay
133.86	863565Y	900 St E (IL-40)		6x6 w/ Gates	Concrete		okay
134.84	863566F	800 St E		Crossbucks	Gravel		improve - local
135.51	863567M	Private - Farm					improve - farm
136.34	863568U	N Mason St (US-6/34)	Sheffield, IL	Flashers	Concrete		okay
136.48	863569B	N Main St	Sheffield, IL	Old Gates Ect	Rubber / Asphalt		improve - local
136.82	863570V	N Reed St	Sheffield, IL	Flashers	Timber		reprofile - local
137.32	863572J	550 St E		Crossbucks			improve - local
137.78	863573R	Private - Farm				Closed	gone
138.14	863574X	Private - Farm				Closed	gone
138.42	863575E	Private - Residence					reprofile - farm
139.24	863576L	Private - Residence					reprofile - farm
139.85		300 St E ?					reprofile - farm
140.26	606928J	270 St E		Crossbucks			improve - local
140.98	606929R	200 St E		Crossbucks			improve - local
141.88	606930K	Lincoln St	Mineral, IL	Flashers			okay
142.00	606931S	N Central St	Mineral, IL	Flashers	Timber		okay
142.80		Patriot Way		New Crossing	Concrete		okay
142.92	606932Y	Private - Residence				Closed	gone
143.30	606933F	Private - Residence				Closed	gone
143.58	606934M	Private - Residence				Closed	gone
144.08	606935U	E 2900 St		Crossbucks		Closed	gone
144.60	606936B	Private - Residence			Gravel		improve - home
145.12		Private - Industrial		New Crossing		???	improve - local
145.64	606938P	East St (IL-78)	Annawan, IL	6x6 w/ Flashers	Concrete		okay
145.78	606939W	Main St	Annawan, IL	Old Equipment	Timber		okay
145.90	606940R	State St	Annawan, IL	Flashers	Timber		okay
146.08	606941X	West St	Annawan, IL			Closed	gone
147.22	606942E	E 2600 St		Crossbucks	Asphalt		reprofile - local
147.70	606943L	Private - Residence			Gravel		reprofile - farm
148.04	606944T	Private - Farm			Gravel		reprofile - farm
148.28	606945A	E 2500 St		Crossbucks	Timber		reprofile - local
149.30	606947N	Private - Farm			Gravel		reprofile - farm
149.96	606948V	Private - Industrial			Gravel		improve - local
151.36	606949C	Spring St	Atkinson, IL	6x6 w/ Gates	Asphalt		improve - local x
151.56	606950W	School St	Atkinson, IL	Flashers	Asphalt		improve - local x
151.76	606951D	Church St	Atkinson, IL	6x6 w/ Gates	Asphalt		improve - local x
152.94	606952K	E 2050 St		Crossbucks			reprofile - local
153.75		Private - Farm					okay
153.94	606953S	E 1950 St		Crossbucks	Timber		okay
154.48	606954Y	E 1900 St		Crossbucks			okay
154.78	606955F	Private - Farm				Closed	gone
155.48	606956M	E 1800 St		6x6 w/ Gates			okay
156.52	606957U	E 1700 St		Crossbucks			okay
157.02	606958B	E 1650 St		Crossbucks			improve - local
157.30	606959H	Private - Industrial		Crossbucks			improve - local
157.68	606960C	Ford Rd		6x6 w/ Gates	Timber		okay
157.82	606961J	Private - Farm				Closed	gone
158.62	606962R	S Chicago St	Geneseo, IL	6x6 w/ Gates	Timber		okay
159.04	606963X	S Spring St	Geneseo, IL	Old Equipment	Metal / Timber		okay
159.18	606964E	N Oakwood Ave	Geneseo, IL	Old Equipment	Metal / Timber		okay
159.28	606965L	N State St	Geneseo, IL	Flashers	Metal / Timber		okay
159.36	606966T	N Center St	Geneseo, IL	Flashers	Metal / Timber		okay
159.68	606968G	N Stewart St	Geneseo, IL	Old Equipment			okay
160.70	606969N	E 1300 St		Crossbucks			okay
161.76	606970H	Hazelwood West Rd		Crossbucks	Asphalt / Timber		okay
163.34	606971P	E 1050 St		Crossbucks			improve - local
164.80	606972W	Potters Bridge Rd (IL-13)		Old Equipment	Timber		okay
167.86	606973D	Private - Residence					improve - farm
168.00	606974K	Bridge St (IL-15)	Green River, IL	Old Equipment	Timber		okay
169.72	606976Y	Broadway St	Colona, IL	Old Equipment	Asphalt		improve - local
170.00	606977F	Cleveland Rd	Colona, IL	4x6 w/ Gates	Concrete		improve - local
170.08	863563?	Private - Farm	Colona, IL		Gravel		improve - farm
171.80	916106D	N 1st Ave	Carbon Cliff, IL	Old Equipment	Timber		improve - urban x
172.88	605934H	IL-5/92 Overpass	Silvis, IL	Overpass			bridge
173.80		Private - Industrial	Silvis, IL			Closed	gone
174.32	605942B	19th St	East Moline, IL	Good Equipment	Concrete		improve - urban x
174.48	605941Y	17th St	East Moline, IL	Old Equipment	Timber		improve - urban x
174.74	605940M	13th St	East Moline, IL	Good Equipment	Metal / Timber		improve - urban x
175.04	605939T	10th St	East Moline, IL	Old Equipment	Metal / Timber		improve - urban x
175.16	605938L	9th St	East Moline, IL	Old Equipment	Concrete		improve - urban x
175.34	605937E	7th St	East Moline, IL	Old Equipment	Timber		improve - urban x
175.56	605936X	5th St	East Moline, IL			Closed	gone
175.76	605935R	3rd St	East Moline, IL	Old Equipment	Asphalt		okay
176.12	605934J	1st St	East Moline, IL	Old Equipment	Concrete		okay
177.10	605933C	41st St	Moline, IL	Old Equipment	Metal / Timber		okay
177.60	605932V	34th St	Moline, IL	Old Equipment	Metal / Timber		okay
178.70	605930G	23rd St	Moline, IL	Good Equipment	Metal / Timber		improve - urban x
178.92	605930G	19th St	Moline, IL	Good Equipment	Metal / Timber		improve - urban x
178.98	605929M	17th St	Moline, IL	Good Equipment	Metal / Timber		improve - urban x
179.14	604314S	15th St	Moline, IL	Good Equipment	Metal / Timber		improve - urban x
179.40	604316F	12th St	Moline, IL	Good Equipment	Metal / Timber		improve - urban x

Crossing Improvements							
Iowa Interstate MP 130 - 237							
M.P.	FRA I.D.	Street	Location	Existing Signals	Existing Surface	Ex Status	Status
179.50	604317M	11th St	Moline, IL			Closed	gone
179.62	604318U	8th St	Moline, IL			Closed	gone
179.76	604319B	6th St	Moline, IL	Old Equipment	Concrete		improve - urban x
179.82	604320V	5th St	Moline, IL			Closed	gone
180.06	604321C	3rd St	Moline, IL			Closed	gone
180.24	604322J	1st St	Moline, IL	Old Equipment	Asphalt		improve - urban x
180.30	604323R	45th St	Rock Island, IL			Closed	gone
180.36	604324X	44th St	Rock Island, IL	Good Equipment	Concrete		improve - urban x
180.60	604325E	Private - Industrial	Rock Island, IL		Metal / Timber		okay
183.08	604341N	Western Ave	Davenport, IA	Old Equipment	Asphalt		okay
183.16	604342V	Gaines St	Davenport, IA	Old Equipment	Concrete		okay
183.24	604343C	Brown St	Davenport, IA	Old Equipment	Concrete		okay
183.31	604344J	Warren St	Davenport, IA	Old Equipment	Timber		okay
183.47	603891L	Myrtle St	Davenport, IA			Closed	gone
183.57	603892T	Marquette St	Davenport, IA	Old Equipment	Concrete		okay
183.65	603893A	Taylor St	Davenport, IA	Old Equipment	Asphalt / Timber		okay
185.87	606780E	W Central Park Ave	Davenport, IA	Good Equipment	Concrete		okay
186.50	606781L	Private - Residence	Davenport, IA		Timber		improve - local
186.93	393008N	Fairmont St	Davenport, IA	Old Equipment	Concrete		improve - urban
187.73	606784G	Private - Farm			Gravel		improve - farm
188.85	606786V	Private - Farm					improve - farm
189.18	606787C	Utah Ave		Crossbucks	Asphalt / Timber		reprofile - local
189.70	606788J	Private - Farm			Gravel		improve - farm
189.98	606790K	Private - Farm			Gravel		improve - farm
190.15	606791S	Private - Farm				Closed	gone
190.28	606792Y	110th Ave		Crossbucks	Asphalt / Timber		okay
191.08	606794M	Private - Farm			Gravel	Closed	gone
191.24	606794M	100th Ave		Crossbucks	Asphalt / Timber		improve - local
191.63	606795U	Private - Farm			Gravel		improve - farm
191.98	606796B	Private - Farm				Closed	gone
192.33	606797H	90th Ave		Crossbucks	Timber		improve - local
192.65	606798P	190th St		Crossbucks	Timber		improve - local
192.68	606799W	Private - Residence			Timber		improve - home
192.88	606800N	Private - Farm			Gravel		improve - farm
193.13	606801V	Private - Farm			Timber		improve - farm
193.60	606802C	Private - Farm			Timber		improve - farm
194.38	606803J	70th Ave	Walcott, IA	Good Equipment	Concrete		okay
194.80	606804R	S Henry St	Walcott, IA	Old Equipment	Timber		okay
194.93	606803Y	S Main St	Walcott, IA	Old Equipment	Rubber / Timber		okay
195.88	606806C	Private - Farm			Gravel		improve - farm
196.35	606807L	York Ave		Crossbucks	Timber		improve - local
199.25	606808T	Iowa St	Stockton, IA	Crossbucks	Asphalt / Timber		okay
200.43	606809A	Verde Ave		Crossbucks	Timber		improve - local
201.45	606811B	14th Ave	Durant, IA	Old Equipment	Concrete		okay
201.88	606812H	8th Ave	Durant, IA	Good Equipment	Concrete		okay
202.03	606813P	6th Ave	Durant, IA	Good Equipment	Concrete		okay
202.13	606814W	5th Ave	Durant, IA	Good Equipment	Concrete		okay
202.60	917612H	W 2nd Ave		PTM w/ 6x6 & FL	Concrete		okay
203.23	606815D	Private - Industrial		Crossbucks	Asphalt / Timber		improve - local
203.48	606600E	Private - Industrial		Crossbucks	Asphalt / Timber		improve - local
203.93	606817S	Private - Industrial		Crossbucks	Timber		improve - local
204.53	606818Y	Trail Ave		Crossbucks	Timber		improve - local
205.53	606819F	Thayer Ave		Crossbucks	Timber		improve - local
205.93	606820A	Private - Farm					improve - farm
206.60	606821G	Taylor Ave		Crossbucks	Timber		okay
207.35	606822N	Cypress St	Wilton, IA	Good Equipment	Timber		okay
207.57	606824C	Chestnut St	Wilton, IA	Good Equipment	Timber		okay
207.83	606827X	Cherry St	Wilton, IA		Timber		okay
208.00	606828E	Liberty St	Wilton, IA	Good Equipment	Timber		okay
208.45	606829L	Private - Farm			Gravel		improve - farm
209.83	606832U	N Isett Ave		Good Equipment	Timber		okay
211.00	606834H	6th St	Moscow, IA	Crossbucks	Timber		okay
211.15	606835P	4th St (Moscow Rd)	Moscow, IA	Old Equipment	Timber		reprofile - local
212.50	606836W	Hinkeyville Ave		Crossbucks	Timber		improve - local
212.97	606837D	Private - Farm			Gravel		improve - farm
213.25	606838K	Mohawk Ave		Crossbucks	Timber		improve - local
215.33	606839S	Penn Ave Rd		Crossbucks			improve - local
215.83	606840L	Lundy St	Atalissa, IA	Good Equipment	Asphalt / Timber		improve - local
215.87	606841T	Cherry St	Atalissa, IA	Old Equipment	Asphalt / Timber		improve - local
216.05	606842A	Oak St	Atalissa, IA	Old Equipment	Asphalt / Timber		improve - local
216.45	606843G	US-6		Good Equipment	Concrete		okay
217.00	606844N	Private - Farm			Timber		reprofile - farm
217.75	606839S	Iron City Ave		Crossbucks	Timber		improve - local
218.83	606846C	Private - Farm					improve - farm
219.18	606847J	Private - Farm				Closed	gone
219.48	606848R	Private - Farm			Timber		improve - farm
219.97	606849X	Green Ave		Crossbucks	Timber		improve - local
220.97	606850S	N Columbus St	West Liberty, IA	Flashers	Concrete		improve - local
221.02	606851Y	N Calhoun St	West Liberty, IA	Flashers	Concrete		improve - local
221.25	606852F	W Prarie St	West Liberty, IA	Flashers	Concrete		improve - local
222.42	606853M	Private - Farm				Closed	gone
222.52	606854U	US-6		Good Equipment	Concrete		okay
223.60	606855B	Private - Farm					improve - farm
224.67	606856H	Private - Farm					improve - farm

Crossing Improvements							
Iowa Interstate MP 130 - 237							
M.P.	FRA I.D.	Street	Location	Existing Signals	Existing Surface	Ex Status	Status
225.42	606858W	Private - Farm					improve - farm
226.22	606859D	Private - Farm				Closed	gone
226.57	606860X	Baker St	Downey, IA	Flashers			okay
226.82	606861E	Adams St	Downey, IA	Crossbucks			improve - local
227.50		Private - Farm					improve - farm
228.55	606863T	Oasis Rd SE		Crossbucks			improve - local
230.10	606865G	Private - Farm					improve - farm
231.55	606866N	Private - Farm					improve - farm
232.32	606868C	Private - Farm					improve - farm
232.52	606869J	420th St SE		Flashers			improve - local
232.75	606870D	Taft Ave SE		Crossbucks			improve - local
233.10	606871K	Private - Farm					improve - farm
233.90	606872S	S Scott Blvd	Iowa City, IA	Good Equipment	Concrete		okay
235.07	606873Y	S 1st Ave	Iowa City, IA	Good Equipment	Concrete		improve - urban x
236.82	606878H	S Dubuque St	Iowa City, IA	Flashers	Concrete		improve - urban x
236.92	606879P	S Clinton St	Iowa City, IA	Flashers	Concrete		improve - urban x
237.50	606882X	Greenwood Dr	Iowa City, IA	Flashers			
238.35	914517C	Finkbine Commuter Dr	Iowa City, IA	Flashers			
239.60	606885T	10th Ave (Industry)	Coralville, IA				
240.70	606887G	22nd Ave	Coralville, IA				
241.18	917610U	25th Ave	Coralville, IA				
241.53		Private - Residence	Coralville, IA				
241.75		Private - Residence	Coralville, IA				
241.90	607997V	Private - Farm	Coralville, IA				

PTC Unit Cost Documentation

Positive Train Control (PTC) and PTC communications systems cost estimates are necessarily high-level as this technology is not yet implemented under 49 CFR 236 Subpart I, beyond a prototype basis. Cost knowledge is accordingly uncertain. Certain aspects of the technology are at this time have fairly well known probable costs, such as locomotive hardware, backoffice servers, computer-aided aided dispatching consoles, and wayside interface units. The principle unknown hardware cost is the communications backbone; the amount of bandwidth requirement and communications connectivity is increasing. Initial communications design definitions are pointing toward a requirement for much greater bandwidth, reduction in message latency periods, and encryption strength than was anticipated at the beginning of PTC exploratory designs. The largest single factor in cost is software development, systems management and requirements development, testing and validation of system vitality, and fulfilling regulatory requirements.

Cost information used to develop the estimates were drawn from BNSF Railway's Beardstown Subdivision ETMS prototype system, foreign installations of Wabtec CBTC systems; Union Pacific Railroad's PTC development team, and discussions with the AAR and TTCl. Costs for the communications backbone, software, systems management, and testing and validation at this time remain a significant unknown.