

Final for Road and Bridge Project 1179

Unit of Measure Pay Estimate

ESTIMATE NO: 17 - Final

This Estimate Date: 12/29/2011

Page 1 of 13

COVERING PERIOD: 12/1/2011 THROUGH 12/25/2011	CONTRACT AWARDED: 6/8/2010	WORK COMMENCED: 8/23/2010
MAINTENANCE OR CONSTRUCTION: Construction	SUBSTANTIAL COMPLETION: 9/6/2011	WORK COMPLETED: 10/13/2011
CONTRACTOR: ANGEL BROTHERS ENTERPRISES, INC.	PERCENT COMPLETE THIS ESTIMATE: 100.00	
PROJECT NAME: KUYKENDAHL ROAD (SEGMENT B) - PCT. 4		

DESCRIPTION: KUYKENDAHL ROAD (SEGMENT B) FROM WILLOW CREEK BRIDGE TO AUGUSTA PINES DRIVE - PCT. 4

PURCHASE ORDER NO.: P175221 JOB NO: 10/0087

ITEM	UNIT OF MEASURE	CONTRACT ESTIMATE QUANTITY	TOTAL WORK DONE THIS ESTIMATE QUANTITY	TOTAL WORK DONE PREVIOUS ESTIMATE QUANTITY	TOTAL WORK DONE TO DATE ESTIMATE QUANTITY	PERCENT COMPLETE	CONTRACT PRICE	AMOUNT
1 - SITE PREPARATION AND EARTHWORK								
1. CLEARING AND GRUBBING	STA.	116.000	0.000	116.000	116.000	100%	\$465.00	\$53,940.00
2. CLEARING AND GRUBBING OF DETENTION POND	ACRE	2.000	0.000	2.000	2.000	100%	\$3,700.00	\$7,400.00
3. REMOVING OLD CONCRETE SLOPE PAVING/DRIVEWAYS (2)	S.Y.	3805.380	0.000	3805.380	3805.380	100%	\$3.00	\$11,416.14
4. REMOVING OLD CONCRETE (CURB) (2)	L.F.	0.000	0.000	0.000	0.000	100%	\$1.50	\$0.00
5. ROADWAY EXCAVATION WITH 3" TOPSOIL STRIPPING	C.Y.	43100.000	0.000	43100.000	43100.000	100%	\$7.50	\$323,250.00
6. DETENTION POND EXCAVATION	C.Y.	6910.000	0.000	6910.000	6910.000	100%	\$7.00	\$48,370.00
7. TOPSOIL FOR DETENTION POND	C.Y.	257.000	257.000	0.000	257.000	100%	\$6.00	\$1,542.00
8. MILING AND HAULING EXISTING ASPHALT PAVEMENT (ALL DEPTHS). MATERIAL IS TO BE HAULED TO THE INTERSECTION OF SPRING-STUEBNER ROAD AND KUYKENDAL ROAD. (3)	S.Y.	39743.030	0.000	39743.030	39743.030	100%	\$1.75	\$69,550.30
9. REMOVAL AND DISPOSE OF EXISTING CULVERT INCLUDING HEADWALLS/SET	L.F.	2743.000	446.000	2297.000	2743.000	100%	\$9.00	\$24,687.00
10. REMOVING EXISTING INLET	EA.	10.000	7.000	3.000	10.000	100%	\$250.00	\$2,500.00
11. REMOVE AND DISPOSE OF EXISTING HEADWALLS AT 10X10 BOX CULVERTS	EA.	2.000	0.000	2.000	2.000	100%	\$3,000.00	\$6,000.00
12. REMOVE OLD STRUCTURES (MBGF) (3)	L.F.	722.000	0.000	722.000	722.000	100%	\$6.00	\$4,332.00
13. REMOVE ROADWAY SIGNS	L.S.	1.000	0.000	1.000	1.000	100%	\$2,000.00	\$2,000.00
14. REMOVE & RELOCATE MAIL BOXES	L.S.	1.000	0.000	1.000	1.000	100%	\$500.00	\$500.00
15. VIDEO RECORDING CONSTRUCTION	L.S.	1.000	0.000	1.000	1.000	100%	\$200.00	\$200.00
16. TURF ESTABLISHMENT	ACRE	2.000	2.000	0.000	2.000	100%	\$1,250.00	\$2,500.00
2 - PAVING								
17. TYPE "A" HYDRATED LIME (2%) FOR SUB-GRADE (3)	TON	512.890	0.000	512.890	512.890	100%	\$139.00	\$71,291.71
18. MANIPULATION OF LIME-FLY ASH STABILIZED SUBGRADE (3)	S.Y.	81901.020	11734.003	70167.020	81901.023	100%	\$1.75	\$143,326.78
19. FLY ASH (8%) FOR SUB-GRADE STABILIZATION (3)	TON	1881.770	0.000	1881.770	1881.770	100%	\$49.75	\$93,618.06
19A. 6" LIMESTONE ACCESS ROAD	S.Y.	1641.000	0.000	1641.000	1641.000	100%	\$9.50	\$15,589.50
20. 8-INCH HOT MIX ASPHALTIC CONCRETE BASE COURSE (1) (3)	TON	40083.470	77.679	40005.790	40083.469	100%	\$50.00	\$2,004,173.50
21. TACK COAT (0.15 GAL/SY) (3)	Gal.	7145.000	0.000	7145.000	7145.000	100%	\$1.50	\$10,717.50

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Page 2 of 13

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2 - PAVING (CONTINUED)								
22. 4-INCH HOT MIX-HOT LAID ASPHALTIC CONCRETE PAVEMENT (3)	TON	19894.710	2022.711	17872.000	19894.711	100%	\$56.00	\$1,114,103.76
23. REINFORCED CONCRETE SLOPE PAVING (8") (1) (2)	S.Y.	176.670	0.000	176.670	176.670	100%	\$60.00	\$10,600.20
23A. REINFORCED CONCRETE SLOPE PAVING (5") (1)	S.Y.	2923.020	0.000	2923.020	2923.020	100%	\$42.50	\$124,228.35
24. FLEX BEAM GUARD RAIL WITH 2 FOOT CONCRETE MOWING STRIP (1)	L.F.	2040.000	0.000	2040.000	2040.000	100%	\$26.00	\$53,040.00
25. FLEX BEAM GUARD RAIL TURN DOWN SECTION (WITH 2 FOOT MOWING STRIP)	EA.	10.000	0.000	10.000	10.000	100%	\$950.00	\$9,500.00
26. 5 1/2" NON-MOUNTABLE CURB (3)	L.F.	0.000	0.000	0.000	0.000	100%	\$4.00	\$0.00
27. CURB RAMPS AND WHEELCHAIR PADS COLORED BRICK RED WITH TRUNCATED DOMES ON BOTTOM 2 FEET OF PAD (3)	S.Y.	121.810	0.000	121.810	121.810	100%	\$90.00	\$10,962.90
3 - DRAINAGE								
28. CONCRETE (WINGWALLS)	EA.	2.000	0.000	2.000	2.000	100%	\$31,000.00	\$62,000.00
29. CONCRETE STRUCTURE 10'X10' CONCRETE BOX CULVERT, (CAST-IN-PLACE) (CLASS B-2 CONCRETE, EXCEPT FOR CLASS A-2 CONCRETE FOR TOP SLAB) WITH RAMNECK JOINT	L.F.	40.000	0.000	40.000	40.000	100%	\$1,200.00	\$48,000.00
30. 24-INCH REINFORCED CONCRETE PIPE (TONGUE & GROOVE) (2)	L.F.	2858.000	0.000	2858.000	2858.000	100%	\$42.00	\$120,036.00
31. 30-INCH REINFORCED CONCRETE PIPE (TONGUE & GROOVE) (2)	L.F.	64.000	0.000	64.000	64.000	100%	\$64.00	\$4,096.00
32. 36-INCH REINFORCED CONCRETE PIPE (TONGUE & GROOVE) (2)	L.F.	52.000	0.000	52.000	52.000	100%	\$120.00	\$6,240.00
32A. 24-INCH CORRUGATED GALVANIZED METAL PIPE (14 GAUGE) (2)	L.F.	120.000	0.000	120.000	120.000	100%	\$52.00	\$6,240.00
33. 36-INCH CORRUGATED GALVANIZED METAL PIPE (14 GAUGE) (1)	L.F.	216.000	0.000	216.000	216.000	100%	\$120.00	\$25,920.00
34. JUNCTION BOX	EA.	1.000	0.000	1.000	1.000	100%	\$1,700.00	\$1,700.00
35. TYPE "A" INLET (2)	EA.	8.000	0.000	8.000	8.000	100%	\$1,350.00	\$10,800.00

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Page 3 of 13

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DESCRIPTION: KUYKENDAHL ROAD (SEGMENT B) FROM WILLOW CREEK BRIDGE TO AUGUSTA PINES DRIVE - PCT. 4

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3 - DRAINAGE (CONTINUED)								
35A. CONCRETE BACK SLOPE INTERCEPTOR STRUCTURE	EA.	2.000	0.000	2.000	2.000	100%	\$1,400.00	\$2,800.00
36. 18" STONE CONCRETE RIP-RAP (1)	S.Y.	317.000	0.000	317.000	317.000	100%	\$46.00	\$14,582.00
37. SAFETY END TREATMENTS TY II, (PSET) (3:1) FOR 24" RCP (2)	EA.	77.000	0.000	77.000	77.000	100%	\$575.00	\$44,275.00
38. SAFETY END TREATMENTS TY II, (PSET-SPR) (3:1) FOR 30" RCP	EA.	4.000	0.000	4.000	4.000	100%	\$975.00	\$3,900.00
39. TYPE M MANHOLE WITH GRATE COVER (FOR PIPES LESS THAN 48") (2)	EA.	6.000	0.000	6.000	6.000	100%	\$1,950.00	\$11,700.00
40. FURNISH AND INSTALL FLOATABLES COLLECTION SCREEN SYSTEM COMPLETE IN PLACE AS SHOWN IN PLANS	L.S.	1.000	0.000	1.000	1.000	100%	\$4,500.00	\$4,500.00
41. TYPE "H" INLET (MOD)(WITH 2-FOOT MOWING STRIP) (3)	EA.	7.000	0.000	7.000	7.000	100%	\$2,100.00	\$14,700.00
42. CCTV INSPECTION OF AS BUILT STORM SEWERS (3)	L.S.	0.000	0.000	0.000	0.000	100%	\$2,500.00	\$0.00
4 - PERMANENT TRAFFIC CONTROL								
43. ALUMINUM SIGNS WITH HIGH INTENSITY SHEETING (3)	EA.	47.000	1.000	46.000	47.000	100%	\$225.00	\$10,575.00
44. OBJECT MARKERS (OM-2Y) (WC) (GND) (3)	EA.	0.000	0.000	0.000	0.000	100%	\$50.00	\$0.00
45. DELINEATORS (D-SY) SZ (TYC) (GF1) (3)	EA.	0.000	0.000	0.000	0.000	100%	\$24.00	\$0.00
46. DELINEATORS (D-SY) SZ 2 (WC) (GND) (3)	EA.	0.000	0.000	0.000	0.000	100%	\$50.00	\$0.00
47. REFLECTORIZED PAVEMENT MARKINGS (TYPE I) (THERMOPLASTIC) (4" BROKEN) (WHITE) (3)	L.F.	8845.000	2354.000	6491.000	8845.000	100%	\$0.48	\$4,245.60
48. REFLECTORIZED PAVEMENT MARKINGS (TYPE I) (THERMOPLASTIC) (4" BROKEN) (YELLOW) (3)	L.F.	4690.000	0.000	4690.000	4690.000	100%	\$0.49	\$2,298.10
49. REFLECTORIZED PAVEMENT MARKINGS (TYPE I) (THERMOPLASTIC) (4" SOLID) (WHITE) (3)	L.F.	23723.000	0.000	23723.000	23723.000	100%	\$0.34	\$8,065.82
50. REFLECTORIZED PAVEMENT MARKINGS (TYPE I) (THERMOPLASTIC) (4" SOLID) (YELLOW) (2)	L.F.	29594.000	0.000	29594.000	29594.000	100%	\$0.35	\$10,357.90

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Page 4 of 13

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4 - PERMANENT TRAFFIC CONTROL (CONTINUED)								
51. REFLECTORIZED PAVEMENT MARKINGS (TYPE I) (THERMOPLASTIC) (8" SOLID) (WHITE) (3)	L.F.	1718.000	944.000	774.000	1718.000	100%	\$0.95	\$1,632.10
52. REFLECTORIZED PAVEMENT MARKINGS (TYPE I) (THERMOPLASTIC) (12" SOLID) (WHITE) (3)	L.F.	1653.000	0.000	1653.000	1653.000	100%	\$2.10	\$3,471.30
53. REFLECTORIZED PAVEMENT MARKINGS (TYPE I) (THERMOPLASTIC) (24" SOLID) (WHITE) (3)	L.F.	710.000	0.000	710.000	710.000	100%	\$4.00	\$2,840.00
54. REFLECTORIZED PAVEMENT MARKINGS (TYPE I) (THERMOPLASTIC) (24" SOLID) (YELLOW) (2)	L.F.	2250.000	0.000	2250.000	2250.000	100%	\$4.25	\$9,562.50
55. REFLECTORIZED PAVEMENT MARKINGS "ONLY" TYPE 1 (2) (3)	EA.	17.000	4.000	13.000	17.000	100%	\$115.00	\$1,955.00
56. REFLECTORIZED PAVEMENT MARKINGS DOUBLE "LEFT TURN ARROW" TYPE 1 (2)	EA.	22.000	0.000	22.000	22.000	100%	\$113.00	\$2,486.00
57. REFLECTORIZED PAVEMENT MARKINGS "LEFT TURN ARROW" TYPE 1 (2) (3)	EA.	17.000	4.000	13.000	17.000	100%	\$90.00	\$1,530.00
58. NON-REFLECTORIZED TRAFFIC BUTTON (2) (3)	EA.	566.000	343.000	223.000	566.000	100%	\$3.00	\$1,698.00
59. REFLECTORIZED PAVEMENT MARKER TYPE II-C-R (3)	EA.	208.000	54.000	154.000	208.000	100%	\$3.15	\$655.20
60. TYPE I-C REFLECTORIZED PAVEMENT MARKER (3)	EA.	578.000	51.000	527.000	578.000	100%	\$3.15	\$1,820.70
61. TYPE II (A-A) REFLECTORIZED PAVEMENT MARKER (2)	EA.	1534.000	0.000	1534.000	1534.000	100%	\$3.10	\$4,755.40
62. REMOVING EXISTING PAVEMENT MARKING (4" WIDTH) (2)	L.F.	24807.000	0.000	24807.000	24807.000	100%	\$0.21	\$5,209.47
63. REMOVING EXISTING PAVEMENT MARKING (8" WIDTH) (2)	L.F.	1137.000	0.000	1137.000	1137.000	100%	\$0.25	\$284.25
64. REMOVING EXISTING PAVEMENT MARKING (12" WIDTH) (3)	L.F.	0.000	0.000	0.000	0.000	100%	\$1.05	\$0.00
65. REMOVING EXISTING PAVEMENT MARKING (24" WIDTH) (3)	L.F.	1893.000	0.000	1893.000	1893.000	100%	\$0.53	\$1,003.29
66. REMOVING EXISTING PAVEMENT MARKING (WORD) (2)	EA.	14.000	0.000	14.000	14.000	100%	\$11.00	\$154.00

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Page 5 of 13

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4 - PERMANENT TRAFFIC CONTROL (CONTINUED)								
67. REMOVING EXISTING PAVEMENT MARKING (ARROW) (2)	EA.	20.000	0.000	20.000	20.000	100%	\$7.50	\$150.00
5 - TEMPORARY TRAFFIC CONTROL DEVICES								
68. 8-INCH HOT MIX ASPHALTIC CONCRETE BASE COURSE (3)	TON	122.300	0.000	122.300	122.300	100%	\$62.50	\$7,643.75
69. 2-INCH HOT MIX HOT LAID ASPHALTIC CONCRETE PAVEMENT (3)	TON	0.000	0.000	0.000	0.000	100%	\$68.00	\$0.00
70. REMOVE AND DISPOSE OF TEMPORARY PAVEMENT (3)	S.Y.	0.000	0.000	0.000	0.000	100%	\$3.00	\$0.00
71. WORK ZONE PAVEMENT MARKINGS, 4" WIDE WHITE (REMOVABLE) (2)	L.F.	47494.000	0.000	47494.000	47494.000	100%	\$0.50	\$23,747.00
72. WORK ZONE PAVEMENT MARKINGS, 4" WIDE YELLOW (REMOVABLE) (3)	L.F.	59015.000	0.000	59015.000	59015.000	100%	\$0.50	\$29,507.50
73. WORK ZONE PAVEMENT MARKINGS, 8" WIDE WHITE (REMOVABLE) (2)	L.F.	1495.000	0.000	1495.000	1495.000	100%	\$1.00	\$1,495.00
74. WORK ZONE PAVEMENT MARKINGS, 24" WIDE YELLOW (REMOVABLE) (3)	L.F.	39.000	0.000	39.000	39.000	100%	\$7.50	\$292.50
75. WORK ZONE PAVEMENT MARKINGS, 24" WIDE WHITE (REMOVABLE) (2)	L.F.	447.000	0.000	447.000	447.000	100%	\$7.50	\$3,352.50
76. WORK ZONE PAVEMENT MARKINGS, REMOVABLE TURN ARROW	EA.	13.000	0.000	13.000	13.000	100%	\$125.00	\$1,625.00
77. WORK ZONE PAVEMENT MARKINGS, REMOVABLE (W) (WORD) (3)	EA.	12.000	0.000	12.000	12.000	100%	\$165.00	\$1,980.00
78. BARRICADES, BARRIERS, CONES, SIGNING, FLAGMEN, ETC. FOR TRAFFIC CONTROL PLAN	MO	12.000	0.000	12.000	12.000	100%	\$2,500.00	\$30,000.00
78A. FURNISH, INSTALL AND REMOVE TEMPORARY COMMERCIAL DRIVEWAY (2)	EA.	14.000	0.000	14.000	14.000	100%	\$900.00	\$12,600.00
78B. FURNISH, INSTALL AND REMOVE TEMPORARY RESIDENTIAL DRIVEWAY (3)	EA.	9.000	0.000	9.000	9.000	100%	\$600.00	\$5,400.00
79. VEHICLE DETECTION SYSTEM (VIVDS)	EA.	2.000	0.000	2.000	2.000	100%	\$13,800.00	\$27,600.00
80. PROJECT SIGN (HARRIS COUNTY)	EA.	2.000	0.000	2.000	2.000	100%	\$600.00	\$1,200.00
6 - TRAFFIC SIGNALIZATION (WEST RAYFORD)								

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Page 6 of 13

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6 - TRAFFIC SIGNALIZATION (WEST RAYFORD) (CONTINUED)								
81. FURNISH AND INSTALL 36" DRILLED SHAFT TRAFFIC POLE FOUNDATION AND ANCHOR BOLTS FOR 34' STEEL STRAIN POLE	C.Y.	16.000	0.000	16.000	16.000	100%	\$825.00	\$13,200.00
82. FURNISH AND INSTALL "KUYKENDAHL RD" OVERHEAD SIGN, WITH DIAMOND GRADING SHEETING	EA.	2.000	0.000	2.000	2.000	100%	\$400.00	\$800.00
83. FURNISH AND INSTALL "WEST RAYFORD RD" OVERHEAD SIGN, WITH DIAMOND GRADING SHEETING	EA.	2.000	0.000	2.000	2.000	100%	\$400.00	\$800.00
84. FURNISH AND INSTALL 34' STEEL STRAIN POLES INCLUDING ANCHOR BOLTS	EA.	4.000	0.000	4.000	4.000	100%	\$4,000.00	\$16,000.00
85. FURNISH AND INSTALL 15' PEDESTAL POLE INCLUDING 24"X48" REINFORCED CONCRETE FOUNDATION	EA.	2.000	0.000	2.000	2.000	100%	\$1,000.00	\$2,000.00
86. FURNISH AND INSTALL 400 WATT HPS LUMINAIRES ON 15' ARMS WITH P.E. CELL	EA.	2.000	0.000	2.000	2.000	100%	\$1,150.00	\$2,300.00
87. FURNISH AND INSTALL ONE-WAY, 3 SECTION, 12" HORIZONTAL SIGNAL HEAD (R,Y,G) WITH GLASS LENS	EA.	8.000	0.000	8.000	8.000	100%	\$450.00	\$3,600.00
88. FURNISH AND INSTALL ONE-WAY, 4 SECTION. 12" HORIZONTAL SIGNAL HEAD (RR,<Y,<G) WITH GLASS LENS	EA.	4.000	0.000	4.000	4.000	100%	\$760.00	\$3,040.00
89. FURNISH AND INSTALL PEDESTRIAN SIGNAL HEAD TWO INDICATIONS, WITH PUSHBUTTON AND SIGN	EA.	8.000	0.000	8.000	8.000	100%	\$325.00	\$2,600.00
90. FURNISH AND INSTALL PEDESTRIAN SIGNAL HEAD "INTERNATIONAL" INDICATIONS, WITH PUSH BUTTON AND SIGN	EA.	8.000	0.000	8.000	8.000	100%	\$325.00	\$2,600.00
91. SAW CUT, FURNISH AND INSTALL LOOP DETECTORS	L.F.	2559.000	0.000	2559.000	2559.000	100%	\$7.50	\$19,192.50

Final for Road and Bridge Project 1179

Unit of Measure Pay Estimate

ESTIMATE NO: 17 - Final

This Estimate Date: 12/29/2011

Page 7 of 13

COVERING PERIOD: 12/1/2011 THROUGH 12/25/2011	CONTRACT AWARDED: 6/8/2010	WORK COMMENCED: 8/23/2010
MAINTENANCE OR CONSTRUCTION: Construction	SUBSTANTIAL COMPLETION: 9/6/2011	WORK COMPLETED: 10/13/2011
CONTRACTOR: ANGEL BROTHERS ENTERPRISES, INC.	PERCENT COMPLETE THIS ESTIMATE: 100.00	
PROJECT NAME: KUYKENDAHL ROAD (SEGMENT B) - PCT. 4		

DESCRIPTION: KUYKENDAHL ROAD (SEGMENT B) FROM WILLOW CREEK BRIDGE TO AUGUSTA PINES DRIVE - PCT. 4

PURCHASE ORDER NO.: P175221 JOB NO: 10/0087

ITEM	UNIT OF MEASURE	CONTRACT ESTIMATE QUANTITY	TOTAL WORK DONE THIS ESTIMATE QUANTITY	TOTAL WORK DONE PREVIOUS ESTIMATE QUANTITY	TOTAL WORK DONE TO DATE ESTIMATE QUANTITY	PERCENT COMPLETE	CONTRACT PRICE	AMOUNT
6 - TRAFFIC SIGNALIZATION (WEST RAYFORD) (CONTINUED)								
92. FURNISH AND INSTALL METER LOOP WITH SERVICE WIRE & DISCONNECT, (TY D 120/240 070 NS GS T SP O) ON 4"X4"X21' STEEL POLE. INCLUDES DISCONNECT, MAIN BREAKERS, ENCLOSURES, LUMINAIRE ARRESTORS, PHOTO CELL, AND P.E./W SAFETY SWITCH	EA.	1.000	0.000	1.000	1.000	100%	\$3,000.00	\$3,000.00
93. FURNISH AND INSTALL AN ISOLATED HIGHWAY TRAFFIC SIGNAL WITH DRAWINGS AND SPECIFICATIONS, EXCLUDING ITEMS LISTED COMPLETE IN PLACE IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS	L.S.	1.000	0.000	1.000	1.000	100%	\$31,500.00	\$31,500.00
94. FURNISH AND INSTALL HC ITS GROUND MOUNTED CABINET INCLUDING FOUNDATION	EA.	1.000	0.000	1.000	1.000	100%	\$22,000.00	\$22,000.00
95. FURNISH AND INSTALL AN ATC 2070 HC (ITS) CONTROLLER	EA.	1.000	0.000	1.000	1.000	100%	\$2,800.00	\$2,800.00
7 - TRAFFIC SIGNALIZATION (LONDON WAY)								
96. FURNISH AND INSTALL 36" DRILLED SHAFT TRAFFIC POLE FOUNDATION AND ANCHOR BOLTS FOR 34' STEEL STRAIN POLE	C.Y.	8.000	0.000	8.000	8.000	100%	\$825.00	\$6,600.00
97. FURNISH AND INSTALL 34' STEEL STRAIN POLES INCLUDING ANCHOR BOLTS	EA.	2.000	0.000	2.000	2.000	100%	\$4,000.00	\$8,000.00
98. FURNISH AND INSTALL 15' PEDESTAL POLE INCLUDING 24"X48" REINFORCED CONCRETE FOUNDATION	EA.	2.000	0.000	2.000	2.000	100%	\$1,000.00	\$2,000.00
99. FURNISH AND INSTALL 400 WATT HPS LUMINAIRES ON 15' ARMS WITH P.E. CELL	EA.	1.000	0.000	1.000	1.000	100%	\$1,150.00	\$1,150.00
100. FURNISH AND INSTALL ONE-WAY, 3 SECTION. 12" HORIZONTAL SIGNAL HEAD (R,Y,G) WITH GLASS LENS	EA.	2.000	0.000	2.000	2.000	100%	\$450.00	\$900.00
101. FURNISH AND INSTALL PEDESTRIAN SIGNAL HEAD TWO INDICATIONS, WITH PUSHBUTTON AND SIGN	EA.	8.000	0.000	8.000	8.000	100%	\$325.00	\$2,600.00

Final for Road and Bridge Project 1179

Unit of Measure Pay Estimate

ESTIMATE NO: 17 - Final

This Estimate Date: 12/29/2011

Page 8 of 13

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CONTRACTOR: ANGEL BROTHERS ENTERPRISES, INC.	PERCENT COMPLETE THIS ESTIMATE: 100.00	
PROJECT NAME: KUYKENDAHL ROAD (SEGMENT B) - PCT. 4		

DESCRIPTION: KUYKENDAHL ROAD (SEGMENT B) FROM WILLOW CREEK BRIDGE TO AUGUSTA PINES DRIVE - PCT. 4

PURCHASE ORDER NO.: P175221 JOB NO: 10/0087

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7 - TRAFFIC SIGNALIZATION (LONDON WAY) (CONTINUED)								
102. FURNISH AND INSTALL PEDESTRIAN SIGNAL HEAD "INTERNATIONAL" INDICATIONS, WITH PUSH BUTTON AND SIGN	EA.	3.000	0.000	3.000	3.000	100%	\$325.00	\$975.00
103. MODIFY AND ISOLATED HIGHWAY TRAFFIC SIGNAL	L.S.	1.000	0.000	1.000	1.000	100%	\$45,000.00	\$45,000.00
104. SAW CUT FURNISH AND INSTALL LOOP DETECTORS	L.F.	1737.000	0.000	1737.000	1737.000	100%	\$7.50	\$13,027.50
8 - TRAFFIC SIGNALIZATION (HUFSMITH)								
105. FURNISH AND INSTALL 36" DRILLED SHAFT TRAFFIC POLE FOUNDATION AND ANCHOR BOLTS FOR 34' STEEL STRAIN POLE	C.Y.	16.000	0.000	16.000	16.000	100%	\$825.00	\$13,200.00
106. FURNISH AND INSTALL "KUYKENDAHL RD" OVERHEAD SIGN, WITH DIAMOND GRADING SHEETING	EA.	2.000	0.000	2.000	2.000	100%	\$400.00	\$800.00
107. FURNISH AND INSTALL "HUFSMITH RD" OVERHEAD SIGN, WITH DIAMOND GRADING SHEETING	EA.	2.000	0.000	2.000	2.000	100%	\$400.00	\$800.00
108. FURNISH AND INSTALL 34' STEEL STRAIN POLES INCLUDING ANCHOR BOLTS	EA.	4.000	0.000	4.000	4.000	100%	\$4,000.00	\$16,000.00
109. FURNISH AND INSTALL 15' PEDESTAL POLE INCLUDING 24"X48" REINFORCED CONCRETE FOUNDATION	EA.	2.000	0.000	2.000	2.000	100%	\$1,000.00	\$2,000.00
110. FURNISH AND INSTALL 400 WATT HPS LUMINAIRES ON 15' ARMS WITH P.E. CELL	EA.	2.000	0.000	2.000	2.000	100%	\$1,150.00	\$2,300.00
111. FURNISH AND INSTALL ONE-WAY, 3 SECTION. 12" HORIZONTAL SIGNAL HEAD (R,Y,G) WITH GLASS LENS	EA.	8.000	0.000	8.000	8.000	100%	\$450.00	\$3,600.00
112. FURNISH AND INSTALL ONE-WAY, 4 SECTION. 12" HORIZONTAL SIGNAL HEAD (RR,<Y,<G) WITH GLASS LENS	EA.	2.000	0.000	2.000	2.000	100%	\$760.00	\$1,520.00
113. FURNISH AND INSTALL PEDESTRIAN SIGNAL HEAD TWO INDICATIONS, WITH PUSHBUTTON AND SIGN	EA.	6.000	0.000	6.000	6.000	100%	\$325.00	\$1,950.00

Final for Road and Bridge Project 1179

Unit of Measure Pay Estimate

ESTIMATE NO: 17 - Final

This Estimate Date: 12/29/2011

Page 9 of 13

COVERING PERIOD: 12/1/2011 THROUGH 12/25/2011	CONTRACT AWARDED: 6/8/2010	WORK COMMENCED: 8/23/2010
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CONTRACTOR: ANGEL BROTHERS ENTERPRISES, INC.	PERCENT COMPLETE THIS ESTIMATE: 100.00	
PROJECT NAME: KUYKENDAHL ROAD (SEGMENT B) - PCT. 4		

DESCRIPTION: KUYKENDAHL ROAD (SEGMENT B) FROM WILLOW CREEK BRIDGE TO AUGUSTA PINES DRIVE - PCT. 4

PURCHASE ORDER NO.: P175221 JOB NO: 10/0087

ITEM	UNIT OF MEASURE	CONTRACT ESTIMATE QUANTITY	TOTAL WORK DONE THIS ESTIMATE QUANTITY	TOTAL WORK DONE PREVIOUS ESTIMATE QUANTITY	TOTAL WORK DONE TO DATE ESTIMATE QUANTITY	PERCENT COMPLETE	CONTRACT PRICE	AMOUNT
8 - TRAFFIC SIGNALIZATION (HUFSMITH) (CONTINUED)								
114. FURNISH AND INSTALL PEDESTRIAN SIGNAL HEAD "INTERNATIONAL" INDICATIONS, WITH PUSH BUTTON AND SIGN	EA.	6.000	0.000	6.000	6.000	100%	\$325.00	\$1,950.00
115. SAW CUT, FURNISH AND INSTALL LOOP DETECTORS	L.F.	1414.000	0.000	1414.000	1414.000	100%	\$7.50	\$10,605.00
116. FURNISH AND INSTALL METER LOOP WITH SERVICE WIRE & DISCONNECT, (TY D 120/240 070 NS GS T SP O) ON 4"X4"X21' STEEL POLE. INCLUDES DISCONNECT, MAIN BREAKERS, ENCLOSURES, LUMINAIRE ARRESTORS, PHOTO CELL, AND P.E./W SAFETY SWITCH	EA.	1.000	0.000	1.000	1.000	100%	\$3,000.00	\$3,000.00
117. FURNISH AND INSTALL VIDEO DETECTION SYSTEM (VIVDS), (1 CAMERA) COMPLETE IN PLACE	EA.	1.000	0.000	1.000	1.000	100%	\$6,300.00	\$6,300.00
118. FURNISH AND INSTALL AN ISOLATED HIGHWAY TRAFFIC SIGNAL WITH DRAWINGS AND SPECIFICATIONS, EXCLUDING ITEMS LISTED COMPLETE IN PLACE IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS	L.S.	1.000	0.000	1.000	1.000	100%	\$26,000.00	\$26,000.00
119. FURNISH AND INSTALL HC ITS GROUND MOUNTED CABINET INCLUDING FOUNDATION	EA.	1.000	0.000	1.000	1.000	100%	\$22,000.00	\$22,000.00
120. FURNISH AND INSTALL ADVANCED TRANSPORTATION CONTROLLER (TYPE 2070)	EA.	1.000	0.000	1.000	1.000	100%	\$2,800.00	\$2,800.00
9 - FIBER OPTIC INTERCONNECT								
121. FURNISH PART# RS900-24-N-L5L500 RUGGEDCOM MANAGED ETHERNET SWITCH, 50KM OPTICS, 24VDC (3)	EA.	0.000	0.000	0.000	0.000	100%	\$1,800.00	\$0.00
122. FURNISH PART# 41-81-0007 RUGGEDCOM RACK MOUNTING BRACKET (3)	EA.	0.000	0.000	0.000	0.000	100%	\$140.00	\$0.00
123. FURNISH DC POWER CABLE FOR RUGGEDCOM SWITCH-SGI DATA COM PART# PC24VDCPT (3)	EA.	0.000	0.000	0.000	0.000	100%	\$42.00	\$0.00
124. FURNISH PART# 615802R5131003F CORNING FIBER JUMBER 3 FT, ST-SC, DUPLEX SINGLEMODE ULTRA PC (3)	EA.	0.000	0.000	0.000	0.000	100%	\$20.00	\$0.00

Final for Road and Bridge Project 1179

Unit of Measure Pay Estimate

ESTIMATE NO: 17 - Final

This Estimate Date: 12/29/2011

Page 10 of 13

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DESCRIPTION: KUYKENDAHL ROAD (SEGMENT B) FROM WILLOW CREEK BRIDGE TO AUGUSTA PINES DRIVE - PCT. 4

PURCHASE ORDER NO.: P175221 JOB NO: 10/0087

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9 - FIBER OPTIC INTERCONNECT (CONTINUED)								
125. FURNISH PART# 619802RJ131025F CORNING FIBER JUMBER 25 FT, ST-MTRJ, DUPLEX SINGLEMODE ULTRA PC (3)	EA.	0.000	0.000	0.000	0.000	100%	\$26.00	\$0.00
126. FURNISH CAT5E DROP CABLE, 7 FT (WITH BOOTS) (3)	EA.	0.000	0.000	0.000	0.000	100%	\$2.00	\$0.00
127. FURNISH CAT5E DROP CABLE, 25 FT (WITH BOOTS) (3)	EA.	0.000	0.000	0.000	0.000	100%	\$5.00	\$0.00
128. FURNISH PART# FG6-1S SUPERIOR MODULAR PRODUCTS FIBER GUARD, OSP ENCLOSURE, 5 PORT (3)	EA.	0.000	0.000	0.000	0.000	100%	\$375.00	\$0.00
129. FURNISH PART # FGD-1H SUPERIOR MODULAR PRODUCTS FIBER GUARD DROP CABLE KIT, 1-HOLE (3)	EA.	0.000	0.000	0.000	0.000	100%	\$35.00	\$0.00
130. FURNISH PART# FD-1T SUPERIOR MODULAR PRODUCTS FIBER GUARD DROP CABLE KIT, 2 HOLE (3)	EA.	0.000	0.000	0.000	0.000	100%	\$35.00	\$0.00
131. FURNISH PART# FGT-24S SUPERIOR MODULAR PRODUCTS FIBER GUARD SPLICE TRAY (3)	EA.	0.000	0.000	0.000	0.000	100%	\$47.00	\$0.00
132. FURNISH & INSTALL PART# RTR12B12SMST SUPERIOR MODULAR PRODUCTS RACK MOUNT CABINET (3)	EA.	0.000	0.000	0.000	0.000	100%	\$330.00	\$0.00
133. FURNISH & INSTALL PART # 616101R3131001F CORNING FIBER JUMBER 1 FT, ST-ST SIMPLEX SINGLEMODE HIGH TEMP RATED ULTRA PC (3)	EA.	0.000	0.000	0.000	0.000	100%	\$26.00	\$0.00
134. FURNISH & INSTALL PART# STUPC12X8R-XXXXF SUPERIOR MODULAR PRODUCTS SINGLEMODE DROP CABLE PRE-ASSEMBLED, FACTORY POLISHED CONNECTORS, XXXX FT (3)	EA.	0.000	0.000	0.000	0.000	100%	\$440.00	\$0.00
135. FURNISH & INSTALL FIBER OPTIC CABLE, 144 STRAND SINGLE MODE (3)	L.F.	0.000	0.000	0.000	0.000	100%	\$5.80	\$0.00
136. FURNISH & INSTALL 2" RIGID METAL CONDUIT (3)	L.F.	0.000	0.000	0.000	0.000	100%	\$14.00	\$0.00
137. FURNISH & INSTALL AERIAL SPLICE ENCLOSURE (3)	EA.	0.000	0.000	0.000	0.000	100%	\$700.00	\$0.00
10 - POLLUTION PREVENTION PLAN								

Final for Road and Bridge Project 1179

Unit of Measure Pay Estimate

ESTIMATE NO: 17 - Final

This Estimate Date: 12/29/2011

Page 11 of 13

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DESCRIPTION: KUYKENDAHL ROAD (SEGMENT B) FROM WILLOW CREEK BRIDGE TO AUGUSTA PINES DRIVE - PCT. 4

PURCHASE ORDER NO.: P175221 JOB NO: 10/0087

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10 - POLLUTION PREVENTION PLAN (CONTINUED)								
138. BLOCK SOD (3)	S.Y.	3350.000	0.000	3350.000	3350.000	100%	\$3.50	\$11,725.00
139. HYDROMULCH SEEDING; COMPLETE IN PLACE	ACRE	17.000	0.000	17.000	17.000	100%	\$1,200.00	\$20,400.00
140. TPDES GENERAL PERMIT NO. TXR150000; NOTICE OF INTENT (NOI) APPLICATION FEE (\$325) (COUNTY'S AND CONTRACTOR'S NOI)	EA.	2.000	0.000	2.000	2.000	100%	\$325.00	\$650.00
141. REINFORCED FILTER FABRIC FENCE (2)	L.F.	2068.000	0.000	2068.000	2068.000	100%	\$1.40	\$2,895.20
142. REINFORCED FILTER FABRIC BARRIER	L.F.	424.000	0.000	424.000	424.000	100%	\$2.50	\$1,060.00
143. INLET PROTECTION BARRIER (2)	EA.	9.000	0.000	9.000	9.000	100%	\$75.00	\$675.00
144. CONSTRUCTION ACCESS (3)	S.Y.	0.000	0.000	0.000	0.000	100%	\$15.00	\$0.00
145. ROCK FILTER DAM TY 2 (3)	L.F.	120.000	30.000	90.000	120.000	100%	\$47.00	\$5,640.00
145A. SWPPP INSPECTION AND MAINTENANCE (MIN. BID \$800/MO)	MO	12.000	0.000	12.000	12.000	100%	\$800.00	\$9,600.00
146. CONCRETE TRUCK WASHOUT STRUCTURE	L.S.	1.000	0.000	1.000	1.000	100%	\$500.00	\$500.00
11 - EXTRA WORK ITEMS								
147. SEAL SLAB FOR STORM SEWER (7" THICK) (MIN. BID \$25/SY) (2)	S.Y.	0.000	0.000	0.000	0.000	100%	\$25.00	\$0.00
148. WELL POINTING (MIN BID. \$15/LF) (2)	L.F.	0.000	0.000	0.000	0.000	100%	\$15.00	\$0.00
149. OFF DUTY UNIFORMED POLICE OFFICER-AS DIRECTED BY ENGINEER (MIN. BID \$25/HR) (3)	HR	269.250	0.000	269.250	269.250	100%	\$38.00	\$10,231.50
12 - ITEMS ASSOCIATED WITH CIC# 10/0087-1								
150. TEMPORARY 35 MPH SPEED LIMIT SIGNS INCLUDING INSTALLATION AND REMOVAL OF EIGHT (8) SIGNS	L.S.	1.000	0.000	1.000	1.000	100%	\$1,557.92	\$1,557.92
151. RELOCATE EXISTING ADVANCED WARNING FLASHING BEACON	L.S.	1.000	0.000	1.000	1.000	100%	\$762.15	\$762.15
152. TEMPORARY WHITE OR YELLOW PAVEMENT TABS (3)	EA.	0.000	0.000	0.000	0.000	100%	\$1.00	\$0.00
13 - ITEMS ASSOCIATED WITH CIC# 10/0087-2								
153. 6" DOWELED-ON CONCRETE CURB (3)	L.F.	946.000	0.000	946.000	946.000	100%	\$5.50	\$5,203.00

Final for Road and Bridge Project 1179

Unit of Measure Pay Estimate

ESTIMATE NO: 17 - Final

This Estimate Date: 12/29/2011

Page 12 of 13

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CONTRACTOR: ANGEL BROTHERS ENTERPRISES, INC.	PERCENT COMPLETE THIS ESTIMATE: 100.00	
PROJECT NAME: KUYKENDAHL ROAD (SEGMENT B) - PCT. 4		

DESCRIPTION: KUYKENDAHL ROAD (SEGMENT B) FROM WILLOW CREEK BRIDGE TO AUGUSTA PINES DRIVE - PCT. 4

PURCHASE ORDER NO.: P175221 JOB NO: 10/0087

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13 - ITEMS ASSOCIATED WITH CIC# 10/0087-2 (CONTINUED)								
154. REFLECTORIZED PAVEMENT MARKING, TYPE II FOR 6" CONCRETE CURB (3)	L.F.	946.000	0.000	946.000	946.000	100%	\$1.75	\$1,655.50

Final for Road and Bridge Project 1179

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Page 13 of 13

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PURCHASE ORDER NO.: P175221 JOB NO: 10/0087

_____ Fund \$ _____
 _____ Fund \$ _____
 _____ Fund \$ _____

 County Auditor/Date

Total amount of work done to-date		\$5,215,086.85
Previous payments	\$4,960,514.15	
Damages and items in contract not performed	\$0.00	
Total deductions	\$4,960,514.15	\$4,960,514.15
Amount due for payment		\$254,572.70

ORDER OF PAYMENT BY COURT

Houston, Texas _____, 20 ____

FINAL ESTIMATE (To be signed by Contractor)

THE STATE OF TEXAS COUNTY OF HARRIS

I have read this bill and certify that it includes all items and balances due me remaining unpaid on this contract and I hereby accept it in full release to Harris County and in final and complete satisfaction of any and all claims due me from Harris County by virtue of this contract and work arising under it.

I further certify that all bills for labor, materials, and supplies going into the contract for which this Final Estimate is received have been paid in full.

 Contractor/Date

Sworn to and subscribed before me, the undersigned authority, at

_____ day of _____, 20

 Notary Public in and for the State of Texas

Approvals

 Architect/Engineer in Charge/Date

 Director or Designee/Date

 Precinct Commissioner or Department Head/Date

Total Calendar Days Allowed By Contract (360 + 22)	382
Total Calendar Days Used To Beginning of Period	380 + 85 S.C
Calendar Days Used This Period	0 + 25 S.C
Total Calendar Days Used At End Of This Period	380 + 110 S.C
Balance Of Calendar Days Allowed Under Contract	2

Number of Inclement Weather Days This Period: 0
 Number of Inclement Weather Days to Date: 17

DAMAGES

Liq. Damages per Day:	\$0.00	for	0 Days This Estimate
Total Liq. Damages:	\$0.00	for	0 Days Total Project
Non-Liquidated Damages this Estimate:	\$0.00		
Total Non-Liquidated Damages:	\$0.00		

Original Days: 360 Original Amount: \$5,032,091.48

Change in Contracts

- 22 Days and \$260,641.62 Added by No. 10/0087-1 (1)
- 0 Days and \$69,870.69 Added by No. 10/0087-2 (2)
- 0 Days and (\$147,516.94) Added by No. 10/0087-3 (3)

Total Contract Days: 382 Total Contract Amount: \$5,215,086.8

audited by _____
 date audit completed _____
 comments _____

The below named Project Manager certifies that the work has progressed as above and complies with the contract documents.

Project Manager _____ Date _____