



APPENDIX G

DETAILED COST ESTIMATES

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LOCATION: Newport News/Williamsburg International Airpor				Reynolds, Smith and Hills, Inc.
PROJECT DESCRIPTION:				Prepared By: NML
Airport Master Plan				RS&H Project No. 201-1003-000
Order of Magnitude Cost Estimates				Project Number
Short-term EA				1
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Environmental Assessment	LSUM	1	\$500,000.00	\$500,000.00
TOTAL				\$500,000.00
0% PLANNING CONTINGENCY				
SUBTOTAL				\$500,000.00
Construction				\$500,000.00
Design/ CA/RPR				
TOTAL				\$500,000

LOCATION: Newport News/Williamsburg International Airpor		Reynolds, Smith and Hills, Inc.		
PROJECT DESCRIPTION: Airport Master Plan Order of Magnitude Cost Estimates		Prepared By: NML RS&H Project No. 201-1003-000		
				Project Number
Project A8 - Taxiway C at Taxiway A (Apron Access Improvements)				4
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization & General Conditions	LSUM	1	\$25,000.00	\$25,000.00
Safety and Security	LSUM	1	\$5,000.00	\$5,000.00
Project Survey and Stakeout	LSUM	1	\$5,000.00	\$5,000.00
Temporary Construction Items	LSUM	1	\$5,000.00	\$5,000.00
Concrete Pavement Demolition	SYD	1,200	\$15.00	\$18,000.00
Unclassified Excavation	CYD	1,000	\$8.00	\$8,000.00
Erosion and Sedimentation Control	LSUM	1	\$5,000.00	\$5,000.00
Runway and Taxiway Painting with Reflective Beads	SFT	1,000	\$2.00	\$2,000.00
Drainage Allowance	ALLOW	1	\$20,000.00	\$20,000.00
Seeding	ACRE	1.00	\$1,500.00	\$1,500.00
Sodding	SYD	200	\$5.00	\$1,000.00
Topsoiling	CYD	500	\$5.00	\$2,500.00
Mulching	ACRE	1.00	\$2,000.00	\$2,000.00
Airfield Lighting/Electrical Improvements	ALLOW	1	\$30,000.00	\$30,000.00
TOTAL				\$130,000.00
20% PLANNING CONTINGENCY				\$26,000.00
SUBTOTAL				\$156,000.00
				Construction \$156,000.00
				Design/ CA/RPR \$24,000.00
				TOTAL \$200,000

LOCATION: Newport News/Williamsburg International Airpor		Reynolds, Smith and Hills, Inc. Prepared By: NML RS&H Project No. 201-1003-000		
PROJECT DESCRIPTION: Airport Master Plan Order of Magnitude Cost Estimates		Project Number 5		
Project A6 - Taxiway D at Taxiway A (Apron Access Improvements)				
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization & General Conditions	LSUM	1	\$50,000.00	\$50,000.00
Safety and Security	LSUM	1	\$15,000.00	\$15,000.00
Project Survey and Stakeout	LSUM	1	\$10,000.00	\$10,000.00
Temporary Construction Items	LSUM	1	\$5,000.00	\$5,000.00
Asphalt Pavement Demolition	SYD	4,100	\$9.00	\$36,900.00
Unclassified Excavation	CYD	1,000	\$8.00	\$8,000.00
Erosion and Sedimentation Control	LSUM	1	\$5,000.00	\$5,000.00
Runway and Taxiway Painting with Reflective Beads	SFT	1,000	\$2.00	\$2,000.00
Drainage Allowance	ALLOW	1	\$50,000.00	\$50,000.00
Seeding	ACRE	1.00	\$1,500.00	\$1,500.00
Sodding	SYD	200	\$5.00	\$1,000.00
Topsoiling	CYD	500	\$5.00	\$2,500.00
Mulching	ACRE	1.00	\$2,000.00	\$2,000.00
Airfield Lighting/Electrical Improvements	ALLOW	1	\$70,000.00	\$70,000.00
TOTAL				\$258,900.00
20% PLANNING CONTINGENCY				\$51,780.00
SUBTOTAL				\$310,680.00
Construction				\$311,000.00
Design/ CA/RPR				\$47,000.00
TOTAL				\$400,000

LOCATION: Newport News/Williamsburg International Airpor				Reynolds, Smith and Hills, Inc. Prepared By: NML RS&H Project No. 201-1003-000	
PROJECT DESCRIPTION: Airport Master Plan Order of Magnitude Cost Estimates				Project Number 7	
Project A28-1 - South Corporate Area Development - Phase 1					
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	
Mobilization & General Conditions	LSUM	1	\$199,800.00	\$199,800.00	
Safety and Security	LSUM	1	\$99,900.00	\$99,900.00	
Project Survey and Stakeout	LSUM	1	\$124,875.00	\$124,875.00	
Temporary Construction Items	LSUM	1	\$99,900.00	\$99,900.00	
New Aircraft Pavement	SY	4,500.00	\$110.00	\$495,000.00	
New Hangar Construction (2 Hangars)	SF	45,000	\$100.00	\$4,500,000.00	
TOTAL				\$5,519,475.00	
20% PLANNING CONTINGENCY				\$1,103,895.00	
SUBTOTAL				\$6,623,370.00	
				Construction	\$6,624,000.00
				Design/ CA/RPR	\$994,000.00
				TOTAL	\$7,700,000

LOCATION: Newport News/Williamsburg International Airpor		Reynolds, Smith and Hills, Inc.		
PROJECT DESCRIPTION:		RS&H Project No. 201-1003-000		
Airport Master Plan		Project Number		
Order of Magnitude Cost Estimates		8		
Taxiway A Lighting and Shoulders				
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization & General Conditions	LSUM	1	\$50,000.00	\$50,000.00
Safety and Security	LSUM	1	\$50,000.00	\$50,000.00
Project Survey and Stakeout	LSUM	1	\$10,000.00	\$10,000.00
Temporary Construction Items	LSUM	1	\$5,000.00	\$5,000.00
Erosion and Sedimentation Control	LSUM	1	\$50,000.00	\$50,000.00
Shoulder Pavement	SY	40,000	\$40.00	\$1,600,000.00
Airfield Lighting/Electrical Improvements	ALLOW	1	\$200,000.00	\$200,000.00
TOTAL				\$1,965,000.00
20% PLANNING CONTINGENCY				\$393,000.00
SUBTOTAL				\$2,358,000.00
Construction				\$2,358,000.00
Design/ CA/RPR				\$118,000.00
TOTAL				\$2,500,000

LOCATION: Newport News/Williamsburg International Airpor			Reynolds, Smith and Hills, Inc.	
PROJECT DESCRIPTION:			Prepared By: NML	
Airport Master Plan			RS&H Project No. 201-1003-000	
Order of Magnitude Cost Estimates			<u>Project Number</u>	
Perimeter Road			9	
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization & General Conditions	LSUM	1	\$38,000.00	\$38,000.00
Safety and Security	LSUM	1	\$19,000.00	\$19,000.00
Project Survey and Stakeout	LSUM	1	\$23,750.00	\$23,750.00
Temporary Construction Items	LSUM	1	\$19,000.00	\$19,000.00
Erosion and Sedimentation Control	LSUM	1	\$100,000.00	\$100,000.00
Construct New Roadway	LANE-MI	1.00	\$750,000.00	\$750,000.00
Drainage Allowance	LSUM	1	\$100,000.00	\$100,000.00
				\$1,049,750.00
				\$209,950.00
				\$1,259,700.00
			Construction	\$1,260,000.00
			Design/ CA/RPR	\$189,000.00
			TOTAL	\$1,500,000

LOCATION: Newport News/Williamsburg International Airpor		Reynolds, Smith and Hills, Inc.		
PROJECT DESCRIPTION:		Prepared By: NML		
Airport Master Plan		RS&H Project No. 201-1003-000		
Order of Magnitude Cost Estimates		Project Number		
Project L6 - Oriana Road Relocation		10		
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization & General Conditions	LSUM	1	\$172,000.00	\$172,000.00
Safety and Security	LSUM	1	\$86,000.00	\$86,000.00
Project Survey and Stakeout	LSUM	1	\$107,500.00	\$107,500.00
Temporary Construction Items	LSUM	1	\$86,000.00	\$86,000.00
Erosion and Sedimentation Control	LSUM	1	\$200,000.00	\$200,000.00
Construct New Roadway	LANE-MI	3.90	\$1,000,000.00	\$3,900,000.00
Drainage Allowance	LSUM	1	\$200,000.00	\$200,000.00
TOTAL				\$4,751,500.00
20% PLANNING CONTINGENCY				\$950,300.00
SUBTOTAL				\$5,701,800.00
Construction				\$5,702,000.00
Design/ CA/RPR				\$856,000.00
TOTAL				\$6,600,000

LOCATION: Newport News/Williamsburg International Airpor		Reynolds, Smith and Hills, Inc.		
PROJECT DESCRIPTION:		Prepared By: NML		
Airport Master Plan		RS&H Project No. 201-1003-000		
Order of Magnitude Cost Estimates		<u>Project Number</u>		
Project P6 - Power Line Relocation		11		
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization & General Conditions	LSUM	1	\$228,000.00	\$228,000.00
Safety and Security	LSUM	1	\$114,000.00	\$114,000.00
Project Survey and Stakeout	LSUM	1	\$142,500.00	\$142,500.00
Temporary Construction Items	LSUM	1	\$114,000.00	\$114,000.00
Demo Existing Power Line	MILE	3	\$400,000.00	\$1,200,000.00
Construct New Power Line	MILE	3	\$1,500,000.00	\$4,500,000.00
TOTAL				\$6,298,500.00
20% PLANNING CONTINGENCY				\$1,259,700.00
SUBTOTAL				\$7,558,200.00
Construction				\$7,559,000.00
Design/ CA/RPR				\$1,134,000.00
TOTAL				\$8,700,000

LOCATION: Newport News/Williamsburg International Airpor			Reynolds, Smith and Hills, Inc.	
PROJECT DESCRIPTION: Airport Master Plan Order of Magnitude Cost Estimates			Prepared By: NML RS&H Project No. 201-1003-000	
Project A28-2 - South Corporate Area Development - Phase 2			Project Number 12	
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization & General Conditions	LSUM	1	\$286,000.00	\$286,000.00
Safety and Security	LSUM	1	\$143,000.00	\$143,000.00
Project Survey and Stakeout	LSUM	1	\$178,750.00	\$178,750.00
Temporary Construction Items	LSUM	1	\$143,000.00	\$143,000.00
New Hangar Construction (3 Hangars)	SF	67,500	\$100.00	\$6,750,000.00
Construct New Roadway	Lane-mi	0.25	\$1,000,000.00	\$250,000.00
Utility Corridor	LS	1.00	\$150,000.00	\$150,000.00
		TOTAL		\$7,900,750.00
		20% PLANNING CONTINGENCY		\$1,580,150.00
		SUBTOTAL		\$9,480,900.00
			Construction	\$9,481,000.00
			Design/ CA/RPR	\$1,423,000.00
			TOTAL	\$11,000,000

LOCATION: Newport News/Williamsburg International Airpor		Reynolds, Smith and Hills, Inc.		
PROJECT DESCRIPTION: Airport Master Plan Order of Magnitude Cost Estimates		Prepared By: NML RS&H Project No. 201-1003-000		
		Project Number 13		
Project A25 - Obstruction Removal				
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization & General Conditions	LSUM	1	\$50,000.00	\$50,000.00
Safety and Security	LSUM	1	\$15,000.00	\$15,000.00
Project Survey and Stakeout	LSUM	1	\$15,000.00	\$15,000.00
Temporary Construction Items	LSUM	1	\$15,000.00	\$15,000.00
Erosion and Sedimentation Control	LSUM	1	\$50,000.00	\$50,000.00
Tree Clearing	ACRE	50.00	\$7,000.00	\$350,000.00
Trim/Remove Isolated Tree	EA	400	\$400.00	\$160,000.00
TOTAL				\$655,000.00
20% PLANNING CONTINGENCY				\$131,000.00
SUBTOTAL				\$786,000.00
				Construction \$786,000.00
				Design/ CA/RPR \$118,000.00
				TOTAL \$1,000,000

LOCATION: Newport News/Williamsburg International Airpor		Reynolds, Smith and Hills, Inc.		
PROJECT DESCRIPTION: Airport Master Plan Order of Magnitude Cost Estimates		Prepared By: NML RS&H Project No. 201-1003-000		
		Project Number 14		
Mid-term EA				
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Environmental Assessment	LSUM	1	\$500,000.00	\$500,000.00
TOTAL				\$500,000.00
0% PLANNING CONTINGENCY				
SUBTOTAL				\$500,000.00
				Construction
				Design/ CA/RPR
				\$500,000.00
				TOTAL
				\$500,000

LOCATION: Newport News/Williamsburg International Airpor		Reynolds, Smith and Hills, Inc.		
PROJECT DESCRIPTION:		Prepared By: NML		
Airport Master Plan		RS&H Project No. 201-1003-000		
Order of Magnitude Cost Estimates		Project Number		
Project A1 - Runway 2/20 Threshold Relocation		15		
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization & General Conditions	LSUM	1	\$246,750.00	\$246,750.00
Safety and Security	LSUM	1	\$82,250.00	\$82,250.00
Engineer's Field Office	LSUM	1	\$100,000.00	\$100,000.00
Project Survey and Stakeout	LSUM	1	\$180,950.00	\$180,950.00
Temporary Construction Items	LSUM	1	\$82,250.00	\$82,250.00
Concrete Pavement Demolition	SYD	20,000	\$15.00	\$300,000.00
Pavement Surface Milling	SYD	500	\$6.00	\$3,000.00
Unclassified Excavation	CYD	220,000	\$8.00	\$1,760,000.00
New Aircraft Pavement	SYD	40,000	\$110.00	\$4,400,000.00
Erosion and Sedimentation Control	LSUM	1	\$125,000.00	\$125,000.00
Bituminous Runway Pavement Grooving	SYD	17,000	\$3.00	\$51,000.00
Runway and Taxiway Painting with Reflective Beads	SFT	140,000	\$2.00	\$280,000.00
Drainage Allowance	ALLOW	1	\$200,000.00	\$200,000.00
Utility Relocation Allowance	ALLOW	1	\$50,000.00	\$50,000.00
Seeding	ACRE	30.00	\$1,500.00	\$45,000.00
Sodding	SYD	3,200	\$5.00	\$16,000.00
Topsolling	CYD	27,000	\$5.00	\$135,000.00
Mulching	ACRE	30.00	\$2,000.00	\$60,000.00
Airfield Lighting/Electrical Improvements	ALLOW	1	\$800,000.00	\$800,000.00
TOTAL				\$8,917,200.00
20% PLANNING CONTINGENCY				\$1,783,440.00
SUBTOTAL				\$10,700,640.00
			Construction	\$10,701,000.00
			Design/ CA/RPR	\$1,285,000.00
			TOTAL	\$12,000,000

LOCATION: Newport News/Williamsburg International Airpor		Reynolds, Smith and Hills, Inc.		
PROJECT DESCRIPTION:		Prepared By: NML		
Airport Master Plan		RS&H Project No. 201-1003-000		
Order of Magnitude Cost Estimates		Project Number		
Project A3 - Taxiways A, D, J Improvements		16		
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization & General Conditions	LSUM	1	\$202,400.00	\$202,400.00
Safety and Security	LSUM	1	\$101,200.00	\$101,200.00
Engineer's Field Office	LSUM	1	\$100,000.00	\$100,000.00
Project Survey and Stakeout	LSUM	1	\$126,500.00	\$126,500.00
Temporary Construction Items	LSUM	1	\$101,200.00	\$101,200.00
Pavement Surface Milling	SYD	1,500	\$6.00	\$9,000.00
Unclassified Excavation	CYD	5,000	\$8.00	\$40,000.00
New Aircraft Pavement	SYD	36,000	\$110.00	\$3,960,000.00
Erosion and Sedimentation Control	LSUM	1	\$75,000.00	\$75,000.00
Runway and Taxiway Painting with Reflective Beads	SFT	11,500	\$2.00	\$23,000.00
Drainage Allowance	ALLOW	1	\$250,000.00	\$250,000.00
Seeding	ACRE	18.00	\$1,500.00	\$27,000.00
Sodding	SYD	6,000	\$5.00	\$30,000.00
Topsoiling	CYD	10,000	\$5.00	\$50,000.00
Mulching	ACRE	18.00	\$2,000.00	\$36,000.00
Airfield Lighting/Electrical Improvements	ALLOW	1	\$560,000.00	\$560,000.00
TOTAL				\$5,691,300.00
20% PLANNING CONTINGENCY				\$1,138,260.00
SUBTOTAL				\$6,829,560.00
Construction				\$6,830,000.00
Design/ CA/RPR				\$1,025,000.00
TOTAL				\$7,900,000

LOCATION: Newport News/Williamsburg International Airpor		Reynolds, Smith and Hills, Inc.		
PROJECT DESCRIPTION:		Prepared By: NML		
Airport Master Plan		RS&H Project No. 201-1003-000		
Order of Magnitude Cost Estimates		<u>Project Number</u>		
Project A28-3 - South Corporate Area Development - Phase 3		17		
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization & General Conditions	LSUM	1	\$396,000.00	\$396,000.00
Safety and Security	LSUM	1	\$198,000.00	\$198,000.00
Project Survey and Stakeout	LSUM	1	\$247,500.00	\$247,500.00
Temporary Construction Items	LSUM	1	\$198,000.00	\$198,000.00
New Hangar Construction (3 Hangars)	SF	67,500	\$100.00	\$6,750,000.00
New Aircraft Pavement	SY	25,000.00	\$110.00	\$2,750,000.00
Construct New Roadway	Lane-mi	0.25	\$1,000,000.00	\$250,000.00
Utility Corridor	LS	1.00	\$150,000.00	\$150,000.00
				\$10,939,500.00
				\$2,187,900.00
				\$13,127,400.00
			Construction	\$13,128,000.00
			Design/ CA/RPR	\$1,970,000.00
			TOTAL	\$15,100,000

LOCATION: Newport News/Williamsburg International Airpor		Reynolds, Smith and Hills, Inc. Prepared By: NML RS&H Project No. 201-1003-000		
PROJECT DESCRIPTION: Airport Master Plan Order of Magnitude Cost Estimates		Project Number 18		
Project A2-1 - Taxiway J Extension and Connectors				
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization & General Conditions	LSUM	1	\$96,030.00	\$96,030.00
Safety and Security	LSUM	1	\$53,350.00	\$53,350.00
Engineer's Field Office	LSUM	0	\$100,000.00	\$0.00
Project Survey and Stakeout	LSUM	1	\$122,705.00	\$122,705.00
Temporary Construction Items	LSUM	1	\$80,025.00	\$80,025.00
Asphalt Pavement Demolition	SYD	2,500	\$9.00	\$22,500.00
Pavement Surface Milling	SYD	500	\$6.00	\$3,000.00
Unclassified Excavation	CYD	4,000	\$8.00	\$32,000.00
Borrow Excavation (Off-Site)	CYD	12,000	\$18.00	\$216,000.00
New Aircraft Pavement	SYD	32,000	\$110.00	\$3,520,000.00
Erosion and Sedimentation Control	LSUM	1	\$100,000.00	\$100,000.00
Runway and Taxiway Painting with Reflective Beads	SFT	12,000	\$2.00	\$24,000.00
Drainage Allowance	ALLOW	1	\$200,000.00	\$200,000.00
Seeding	ACRE	25.00	\$1,500.00	\$37,500.00
Sodding	SYD	13,000	\$5.00	\$65,000.00
Topsoiling	CYD	13,000	\$5.00	\$65,000.00
Mulching	ACRE	25.00	\$2,000.00	\$50,000.00
Airfield Lighting/Electrical Improvements	ALLOW	1	\$1,000,000.00	\$1,000,000.00
		TOTAL		\$5,687,110.00
		20% PLANNING CONTINGENCY		\$1,137,422.00
		SUBTOTAL		\$6,824,532.00
			Construction	\$6,825,000.00
			Design/ CA/RPR	\$819,000.00
			TOTAL	\$7,700,000

LOCATION: Newport News/Williamsburg International Airpor		Reynolds, Smith and Hills, Inc.		
PROJECT DESCRIPTION: Airport Master Plan Order of Magnitude Cost Estimates		Prepared By: NML RS&H Project No. 201-1003-000		
				Project Number
				19
Project A4-2 - Taxiway D Rehabilitation				
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization & General Conditions	LSUM	1	\$221,609.18	\$221,609.18
Safety and Security	LSUM	1	\$110,804.59	\$110,804.59
Engineer's Field Office	LSUM	1	\$100,000.00	\$100,000.00
Project Survey and Stakeout	LSUM	1	\$73,869.73	\$73,869.73
Temporary Construction Items	LSUM	1	\$96,030.64	\$96,030.64
Pavement Surface Milling	SYD	2,000	\$6.00	\$12,000.00
Concrete Pavement Demolition	SYD	50,000	\$15.00	\$750,000.00
New Aircraft Pavement	SYD	50,000	\$110.00	\$5,500,000.00
Erosion and Sedimentation Control	LSUM	1	\$100,000.00	\$100,000.00
Runway and Taxiway Painting with Reflective Beads	SFT	14,000	\$2.00	\$28,000.00
Drainage Allowance	ALLOW	1	\$50,000.00	\$50,000.00
Seeding	ACRE	9.00	\$1,500.00	\$13,500.00
Sodding	SYD	3,000	\$5.00	\$15,000.00
Topsoiling	CYD	95	\$5.00	\$472.50
Mulching	ACRE	9.00	\$2,000.00	\$18,000.00
Airfield Lighting/Electrical Improvements	ALLOW	1	\$900,000.00	\$900,000.00
TOTAL				\$7,989,286.63
20% PLANNING CONTINGENCY				\$1,597,857.33
SUBTOTAL				\$9,587,143.96
			Construction	\$9,588,000.00
			Design/ CA/RPR	\$1,161,000.00
			TOTAL	\$10,750,000

LOCATION: Newport News/Williamsburg International Airpor		Reynolds, Smith and Hills, Inc.		
PROJECT DESCRIPTION:		Prepared By: NML		
Airport Master Plan		RS&H Project No. 201-1003-000		
Order of Magnitude Cost Estimates		Project Number		
Project L1 - Brick Kiln Boulevard Realignment		20		
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization & General Conditions	LSUM	1	\$50,000.00	\$50,000.00
Safety and Security	LSUM	1	\$20,000.00	\$20,000.00
Project Survey and Stakeout	LSUM	1	\$20,000.00	\$20,000.00
Temporary Construction Items	LSUM	1	\$15,000.00	\$15,000.00
Erosion & Sedimentation Control	LSUM	1	\$50,000.00	\$50,000.00
Asphalt Pavement Demolition	SY	4,700	\$9.00	\$42,300.00
Construct New Roadway	LANE-MI	0.60	\$1,000,000.00	\$600,000.00
Drainage Allowance	LSUM	1.00	\$100,000.00	\$100,000.00
	TOTAL			\$897,300.00
	20% PLANNING CONTINGENCY			\$179,460.00
	SUBTOTAL			\$1,076,760.00
			Construction	\$1,077,000.00
			Design/ CA/RPR	\$162,000.00
			TOTAL	\$1,300,000

LOCATION: Newport News/Williamsburg International Airpor		Reynolds, Smith and Hills, Inc.		
PROJECT DESCRIPTION:		Prepared By: NML		
Airport Master Plan		RS&H Project No. 201-1003-000		
Order of Magnitude Cost Estimates		<u>Project Number</u>		
Project A31 - General Aviation Apron Rehabilitation		21		
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization & General Conditions	LSUM	1	\$99,000.00	\$99,000.00
Safety and Security	LSUM	1	\$49,500.00	\$49,500.00
Project Survey and Stakeout	LSUM	1	\$61,875.00	\$61,875.00
Temporary Construction Items	LSUM	1	\$49,500.00	\$49,500.00
Concrete Pavement Demolition	SY	19,000	\$15.00	\$285,000.00
Erosion & Sedimentation Control	LSUM	1	\$100,000.00	\$100,000.00
New Aircraft Pavement	SY	19,000	\$110.00	\$2,090,000.00
TOTAL				\$2,734,875.00
20% PLANNING CONTINGENCY				\$546,975.00
SUBTOTAL				\$3,281,850.00
Construction				\$3,282,000.00
Design/ CA/RPR				\$493,000.00
TOTAL				\$3,800,000

LOCATION: Newport News/Williamsburg International Airpor		Reynolds, Smith and Hills, Inc.		
PROJECT DESCRIPTION:		Prepared By: NML		
Airport Master Plan		RS&H Project No. 201-1003-000		
Order of Magnitude Cost Estimates		Project Number		
Project A30 - Small Aircraft Apron Rehabilitation		22		
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization & General Conditions	LSUM	1	\$50,000.00	\$50,000.00
Safety and Security	LSUM	1	\$15,000.00	\$15,000.00
Project Survey and Stakeout	LSUM	1	\$10,000.00	\$10,000.00
Temporary Construction Items	LSUM	1	\$10,000.00	\$10,000.00
Asphalt Pavement Demolition	SY	2,600	\$9.00	\$23,400.00
Erosion & Sedimentation Control	LSUM	1	\$50,000.00	\$50,000.00
New Aircraft Pavement	SY	2,600	\$150.00	\$390,000.00
TOTAL				\$548,400.00
20% PLANNING CONTINGENCY				\$109,680.00
SUBTOTAL				\$658,080.00
Construction				\$659,000.00
Design/ CA/RPR				\$99,000.00
TOTAL				\$800,000

LOCATION: Newport News/Williamsburg International Airpor Reynolds, Smith and Hills, Inc.

PROJECT DESCRIPTION:
Airport Master Plan
Order of Magnitude Cost Estimates

Prepared By: NML
RS&H Project No. 201-1003-000

Project Number

24

Long-term EA

WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Environmental Assessment	LSUM	1	\$500,000.00	\$500,000.00
TOTAL				\$500,000.00
0% PLANNING CONTINGENCY				
SUBTOTAL				\$500,000.00

Construction \$500,000.00
Design/ CA/RPR
TOTAL \$500,000

LOCATION: Newport News/Williamsburg International Airpor			Reynolds, Smith and Hills, Inc.	
PROJECT DESCRIPTION:			Prepared By: NML	
Airport Master Plan			RS&H Project No. 201-1003-000	
Order of Magnitude Cost Estimates			<u>Project Number</u>	
Project L4 - Auto Parking Lot Expansion			25	
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization & General Conditions	LSUM	1	\$50,000.00	\$50,000.00
Safety and Security	LSUM	1	\$15,000.00	\$15,000.00
Project Survey and Stakeout	LSUM	1	\$15,000.00	\$15,000.00
Temporary Construction Items	LSUM	1	\$15,000.00	\$15,000.00
Erosion and Sedimentation Control	LSUM	1	\$75,000.00	\$75,000.00
Drainage Allowance	LSUM	1.00	\$100,000.00	\$100,000.00
Parking Lot Pavement	SF	60,000.00	\$4.00	\$240,000.00
New Revenue Control Device	EA	2.00	\$50,000.00	\$100,000.00
TOTAL				\$610,000.00
20% PLANNING CONTINGENCY				\$122,000.00
SUBTOTAL				\$732,000.00
			Construction	\$732,000.00
			Design/ CA/RPR	\$110,000.00
			TOTAL	\$900,000

LOCATION: Newport News/Williamsburg International Airpor		Reynolds, Smith and Hills, Inc.		
PROJECT DESCRIPTION: Airport Master Plan Order of Magnitude Cost Estimates		Prepared By: NML RS&H Project No. 201-1003-000		
		Project Number 27		
Airport Master Plan				
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Airport Master Plan Update	LSUM	1	\$1,000,000.00	\$1,000,000.00
TOTAL				\$1,000,000.00
0% PLANNING CONTINGENCY				
SUBTOTAL				\$1,000,000.00
Construction Design/ CA/RPR				\$1,000,000.00
TOTAL				\$1,000,000

LOCATION: Newport News/Williamsburg International Airpor		Reynolds, Smith and Hills, Inc.		
PROJECT DESCRIPTION:		Prepared By: NML		
Airport Master Plan		RS&H Project No. 201-1003-000		
Order of Magnitude Cost Estimates		Project Number		
Project L2-1 - Terminal Loop Road Realignment		28		
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization & General Conditions	LSUM	1	\$120,904.90	\$120,904.90
Safety and Security	LSUM	1	\$61,926.90	\$61,926.90
Project Survey and Stakeout	LSUM	1	\$74,017.39	\$74,017.39
Temporary Construction Items	LSUM	1	\$61,926.90	\$61,926.90
Erosion & Sedimentation Control	LSUM	1	\$115,000.00	\$115,000.00
Asphalt Pavement Demolition	SY	12,100	\$9.00	\$108,900.00
Construct New Roadway	LANE-MI	2.40	\$1,000,000.00	\$2,400,000.00
Drainage Allowance	LSUM	1.00	\$125,000.00	\$125,000.00
Wetlands Mitigation	ACRE	2.00	\$100,000.00	\$200,000.00
TOTAL				\$3,267,676.09
20% PLANNING CONTINGENCY				\$653,535.22
SUBTOTAL				\$3,921,211.31
Construction				\$3,922,000.00
Design/ CA/RPR				\$589,000.00
TOTAL				\$4,600,000

LOCATION: Newport News/Williamsburg International Airpor		Reynolds, Smith and Hills, Inc.		
PROJECT DESCRIPTION:		Prepared By: NML		
Airport Master Plan		RS&H Project No. 201-1003-000		
Order of Magnitude Cost Estimates		Project Number		
Project L2-2 - Primary Airport Access Improvements		29		
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization & General Conditions	LSUM	1	\$95,000.00	\$95,000.00
Safety and Security	LSUM	1	\$47,500.00	\$47,500.00
Project Survey and Stakeout	LSUM	1	\$59,375.00	\$59,375.00
Temporary Construction Items	LSUM	1	\$47,500.00	\$47,500.00
Erosion & Sedimentation Control	LSUM	1	\$75,000.00	\$75,000.00
Construct New Roadway	LANE-MI	2.00	\$1,000,000.00	\$2,000,000.00
Drainage Allowance	LSUM	1.00	\$100,000.00	\$100,000.00
Wetlands Mitigation	ACRE	2.00	\$100,000.00	\$200,000.00
TOTAL				\$2,624,375.00
20% PLANNING CONTINGENCY				\$524,875.00
SUBTOTAL				\$3,149,250.00
Construction				\$3,150,000.00
Design/ CA/RPR				\$473,000.00
TOTAL				\$3,700,000

LOCATION: Newport News/Williamsburg International Airpor		Reynolds, Smith and Hills, Inc.		
PROJECT DESCRIPTION:		Prepared By: NML		
Airport Master Plan		RS&H Project No. 201-1003-000		
Order of Magnitude Cost Estimates		Project Number		
Project L2-3 - East Bypass Road		30		
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization & General Conditions	LSUM	1	\$42,000.00	\$42,000.00
Safety and Security	LSUM	1	\$21,000.00	\$21,000.00
Project Survey and Stakeout	LSUM	1	\$26,250.00	\$26,250.00
Temporary Construction Items	LSUM	1	\$21,000.00	\$21,000.00
Erosion & Sedimentation Control	LSUM	1	\$50,000.00	\$50,000.00
Construct New Roadway	LANE-MI	0.90	\$1,000,000.00	\$900,000.00
Drainage Allowance	LSUM	1.00	\$100,000.00	\$100,000.00
TOTAL				\$1,160,250.00
20% PLANNING CONTINGENCY				\$232,050.00
SUBTOTAL				\$1,392,300.00
Construction				\$1,393,000.00
Design/ CA/RPR				\$209,000.00
TOTAL				\$1,700,000

LOCATION: Newport News/Williamsburg International Airpor		Reynolds, Smith and Hills, Inc.		
PROJECT DESCRIPTION:		Prepared By: NML		
Airport Master Plan		RS&H Project No. 201-1003-000		
Order of Magnitude Cost Estimates		<u>Project Number</u>		
Project L3 - Auto Parking Garage Construction		31		
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization & General Conditions	LSUM	1	\$304,000.00	\$304,000.00
Safety and Security	LSUM	1	\$152,000.00	\$152,000.00
Project Survey and Stakeout	LSUM	1	\$190,000.00	\$190,000.00
Temporary Construction Items	LSUM	1	\$152,000.00	\$152,000.00
Drainage Allowance	LSUM	1.00	\$100,000.00	\$100,000.00
New Parking Garage	SF	100,000.00	\$75.00	\$7,500,000.00
TOTAL				\$8,398,000.00
20% PLANNING CONTINGENCY				\$1,679,600.00
SUBTOTAL				\$10,077,600.00
Construction				\$10,078,000.00
Design/ CA/RPR				\$1,512,000.00
TOTAL				\$11,600,000

LOCATION: Newport News/Williamsburg International Airpor		Reynolds, Smith and Hills, Inc.		
PROJECT DESCRIPTION:		Prepared By: NML		
Airport Master Plan		RS&H Project No. 201-1003-000		
Order of Magnitude Cost Estimates		Project Number		
Project L2-5 - Two-Way North/South Arterial Road		32		
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization & General Conditions	LSUM	1	\$57,600.00	\$57,600.00
Safety and Security	LSUM	1	\$28,800.00	\$28,800.00
Project Survey and Stakeout	LSUM	1	\$36,000.00	\$36,000.00
Temporary Construction Items	LSUM	1	\$28,800.00	\$28,800.00
Erosion & Sedimentation Control	LSUM	1	\$40,000.00	\$40,000.00
Construct New Roadway	LANE-MI	1.30	\$1,000,000.00	\$1,300,000.00
Drainage Allowance	LSUM	1.00	\$100,000.00	\$100,000.00
TOTAL				\$1,591,200.00
20% PLANNING CONTINGENCY				\$318,240.00
SUBTOTAL				\$1,909,440.00
Construction				\$1,910,000.00
Design/ CA/RPR				\$287,000.00
TOTAL				\$2,200,000

LOCATION: Newport News/Williamsburg International Airpor			Reynolds, Smith and Hills, Inc.	
PROJECT DESCRIPTION:			Prepared By: NML	
Airport Master Plan			RS&H Project No. 201-1003-000	
Order of Magnitude Cost Estimates			<u>Project Number</u>	
Project L5 - Rental Car Relocation/Expansion			33	
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization & General Conditions	LSUM	1	\$25,000.00	\$25,000.00
Safety and Security	LSUM	1	\$10,000.00	\$10,000.00
Project Survey and Stakeout	LSUM	1	\$5,000.00	\$5,000.00
Temporary Construction Items	LSUM	1	\$1,200.00	\$1,200.00
Pavement Marking / Bollards	LSUM	1.00	\$60,000.00	\$60,000.00
TOTAL				\$101,200.00
20% PLANNING CONTINGENCY				\$20,240.00
SUBTOTAL				\$121,440.00
				Construction \$122,000.00
				Design/ CA/RPR \$19,000.00
				TOTAL \$200,000