

LOCATION: McKinney National Airport

PROJECT: 2 - Relocate Portion of Taxiway B3 to Meet Airfield Geometry Standards

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 61,900.00	\$ 61,900.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 4,000.00	\$ 4,000.00
1.03	G-202	Safety and Security	LS	1	\$ 4,500.00	\$ 4,500.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 6,000.00	\$ 6,000.00
1.05	G-204	Pavement Marking Obliteration	LF	450	\$ 1.00	\$ 450.00
1.06	G-205	Temporary Construction Items	LS	1	\$ 9,000.00	\$ 9,000.00
1.07	FAA P-101	Asphalt Surface Course Removal	SY	2,037	\$ 2.00	\$ 4,074.00
1.08	FAA P-101	Asphalt Base Course Removal	SY	2,175	\$ 3.00	\$ 6,525.00
1.09	FAA P-101	Crushed Aggregate Base Course Removal	SY	2,420	\$ 5.00	\$ 12,100.00
1.10	FAA P-152	Unclassified Excavation	CY	333	\$ 15.00	\$ 4,995.00
1.11	FAA P-152	Embankment in Place	CY	333	\$ 20.00	\$ 6,660.00
1.12	FAA P-152	Undercut and Replace Unsuitable Subgrade	CY	34	\$ 55.00	\$ 1,870.00
1.13	FAA P-152	Subgrade Preparation/Mechanical Reworking of Existing Subgrade Material	CY	4,307	\$ 8.00	\$ 34,456.00
1.14	FAA P-155	Lime Treated Subgrade	SY	3,605	\$ 6.00	\$ 21,630.00
1.15	FAA P-155	Hydrated Lime	TON	73	\$ 200.00	\$ 14,600.00
1.16	FAA P-156	Installation and Removal of Silt Fence	LF	288	\$ 5.00	\$ 1,440.00
1.17	FAA P-401	4" HMA Stabilized Base Course	TON	746	\$ 180.00	\$ 134,280.00
1.18	FAA P-501	17" PCC Pavement	SY	3,314	\$ 75.00	\$ 248,550.00
1.19	FAA P-602	Bituminous Prime Coat	GAL	721	\$ 4.00	\$ 2,884.00
1.20	FAA P-603	Bituminous Tack Coat	GAL	361	\$ 4.00	\$ 1,444.00
1.21	FAA P-602	Reflectorized Pavement Marking (Yellow)	SF	279	\$ 2.00	\$ 558.00
1.22	FAA P-602	Non-Reflectorized Pavement Marking (Black)	SF	557	\$ 2.00	\$ 1,114.00
1.23	FAA D-701	Remove Existing Drainage Pipe	LF	159	\$ 30.00	\$ 4,770.00
1.24	FAA D-701	30" ASTM C-76, Class IV RCP	LF	244	\$ 150.00	\$ 36,600.00
1.25	FAA D-752	Remove Existing Sloped End Treatment	EA	2	\$ 1,500.00	\$ 3,000.00
1.26	FAA D-752	Sloped End Treatment	EA	2	\$ 5,000.00	\$ 10,000.00
1.27	FAA T-901	Seeding	SY	17,466	\$ 0.50	\$ 8,733.00
1.28	FAA T-904	Sodding	SY	1,370	\$ 4.00	\$ 5,480.00
1.29	FAA T-905	Topsoiling	SY	18,831	\$ 3.75	\$ 70,616.25
1.30	TxDOT 506	Stormwater Pollution Prevention Plan	LS	1	\$ 5,000.00	\$ 5,000.00
1.31	TxDOT 506	Temporary Rock Construction Exit, Type 1	EA	1	\$ 5,000.00	\$ 5,000.00
1.32	G-212	Coordination with Utility Companies	LS	1	\$ 1,000.00	\$ 1,000.00
1.33	16090	Remove and Salvage Sign/Remove Sign Pad	EA	6	\$ 500.00	\$ 3,000.00
1.34	16090	Remove and Salvage Elevated Edge Light/Remove Base Can in Modified Pavement Areas	EA	27	\$ 250.00	\$ 6,750.00
1.35	16090	Remove Existing Electrical Conduit and Cables	LF	1,345	\$ 3.00	\$ 4,035.00
1.36	16116	L-851 Cable and Counterpoise	LF	4,063	\$ 5.00	\$ 20,312.50
1.37	16116	Install new 2" Sched. 40 PVC Conduit	LF	1,625	\$ 5.00	\$ 8,125.00
1.38	16530	Re-connect to existing fixture	EA	4	\$ 1,000.00	\$ 4,000.00
1.39	16530	Install new Sign, 3-module incl. Foundation	EA	6	\$ 8,000.00	\$ 48,000.00
1.40	16530	Install new L-861T(L) fixture in new base can in modified pavement shoulder	EA	27	\$ 1,200.00	\$ 32,400.00



LOCATION: McKinney National Airport

PROJECT: 2 - Relocate Portion of Taxiway B3 to Meet Airfield Geometry Standards

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Subtotal (Estimated):						\$ 859,851.75
20% Contingencies:						\$ 171,970.35
Total w/ Contingencies (Estimated):						\$ 1,031,822.10
Anticipated Construction Duration: 90 Calendar Days						

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$56,000.00
Survey:	\$5,000.00
Geotechnical Investigating:	\$8,300.00
Engineering Construction Administration:	\$24,000.00
Resident Project Representative:	\$52,800.00
Construction Materials Testing:	\$19,900.00
Construction Survey Verification:	\$3,400.00
Close-Out:	\$2,800.00

Subtotal:	\$172,200.00
10% Contingencies:	\$17,300.00
Total w/ Contingencies:	\$189,500.00

TOTAL: \$ 1,221,322.10

Basis for EOPC:

- No Design Completed
- 90% Design Documents
- Sealed Documents

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Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 3 - Reconstruct Taxiway A

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 379,900.00	\$ 379,900.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 4,000.00	\$ 4,000.00
1.03	G-202	Safety and Security	LS	1	\$ 9,000.00	\$ 9,000.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 12,000.00	\$ 12,000.00
1.05	G-205	Temporary Construction Items	LS	1	\$ 18,000.00	\$ 18,000.00
1.06	FAA P-101	3" HMA Overlay Removal	SY	28,628	\$ 2.00	\$ 57,256.00
1.07	FAA P-101	5" HMA Surface Course Removal	SY	28,628	\$ 3.00	\$ 85,884.00
1.08	FAA P-101	10.5" Crushed Aggregate Base Course Removal	SY	31,642	\$ 5.00	\$ 158,210.00
1.09	FAA P-101	10" PCC Removal	SY	1,282	\$ 8.00	\$ 10,256.00
1.10	FAA P-101	8" Lime Treated Subgrade Removal	SY	1,397	\$ 2.00	\$ 2,794.00
1.11	FAA P-152	Unclassified Excavation	CY	3,624	\$ 15.00	\$ 54,360.00
1.12	FAA P-152	Embankment in Place	CY	3,657	\$ 20.00	\$ 73,140.00
1.13	FAA P-152	Undercut and Replace Unsuitable Subgrade	CY	1,879	\$ 55.00	\$ 103,345.00
1.14	FAA P-156	Installation and Removal of Silt Fence	LF	9,845	\$ 5.00	\$ 49,225.00
1.15	FAA P-301	Soil-Cement Base Course	SY	37,738	\$ 6.00	\$ 226,428.00
1.16	FAA P-301	Portland Cement (30 lbs/SY)	TON	567	\$ 200.00	\$ 113,400.00
1.17	FAA P-401	4" HMA Stabilized Base Course	TON	7,434	\$ 180.00	\$ 1,338,120.00
1.18	FAA P-501	17" PCC Pavement	SY	29,910	\$ 75.00	\$ 2,243,250.00
1.19	FAA P-602	Bituminous Prime Coat	GAL	6,608	\$ 4.00	\$ 26,432.00
1.20	FAA P-603	Bituminous Tack Coat	GAL	3,304	\$ 4.00	\$ 13,216.00
1.21	FAA P-602	Reflectorized Pavement Marking (Yellow)	SF	14,975	\$ 2.00	\$ 29,950.00
1.22	FAA P-602	Non-Reflectorized Pavement Marking (Black)	SF	24,632	\$ 2.00	\$ 49,264.00
1.23	FAA T-901	Seeding	SY	7,067	\$ 0.50	\$ 3,533.50
1.24	FAA T-904	Sodding	SY	8,080	\$ 4.00	\$ 32,320.00
1.25	FAA T-905	Topsoiling	SY	15,144	\$ 3.75	\$ 56,790.00
1.26	TxDOT 506	Stormwater Pollution Prevention Plan	LS	1	\$ 5,000.00	\$ 5,000.00
1.27	TxDOT 506	Temporary Rock Construction Exit, Type 1	EA	1	\$ 5,000.00	\$ 5,000.00
1.28	G-210	Coordination with Utility Companies	LS	1	\$ 1,000.00	\$ 1,000.00
1.29	G-211	Protect Existing Utilities in Place	LS	1	\$ 10,000.00	\$ 10,000.00
					Subtotal (Estimated):	\$ 5,171,073.50
					20% Contingencies:	\$ 1,034,214.70
					Total w/ Contingencies (Estimated):	\$ 6,205,288.20
Anticipated Construction Duration: 180 Calendar Days						



LOCATION: McKinney National Airport

PROJECT: 3 - Reconstruct Taxiway A

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
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Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$293,200.00
Survey:	\$22,500.00
Geotechnical Investigating:	\$74,800.00
Engineering Construction Administration:	\$48,000.00
Resident Project Representative:	\$105,600.00
Construction Materials Testing:	\$179,500.00
Construction Survey Verification:	\$30,000.00
Close-Out:	\$14,700.00

Subtotal: \$768,300.00

10% Contingencies: \$76,900.00

Total w/ Contingencies: \$845,200.00

TOTAL: \$ 7,050,488.20

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Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 5 - Relocate Hold Position Markings to 256' to Meet RDC D-III Design Standards

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 16,100.00	\$ 16,100.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 3,000.00	\$ 3,000.00
1.03	G-202	Safety and Security	LS	1	\$ 3,000.00	\$ 3,000.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 3,000.00	\$ 3,000.00
1.05	G-205	Temporary Construction Items	LS	1	\$ 6,000.00	\$ 6,000.00
1.06	16530	Relocate Hold Position Markings to Meet RDC D-III Standards	LS	1	\$ 130,000.00	\$ 130,000.00
Subtotal (Estimated):						\$ 161,100.00
25% Contingencies:						\$ 40,275.00
Total w/ Contingencies (Estimated):						\$ 201,375.00
Anticipated Construction Duration: 60 Calendar Days						

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$15,400.00
Survey:	\$5,000.00
Geotechnical Investigating:	\$2,000.00
Engineering Construction Administration:	\$16,000.00
Resident Project Representative:	\$17,600.00
Construction Materials Testing:	\$4,000.00
Construction Survey Verification:	\$0.00
Close-Out:	\$800.00

Subtotal:	\$60,800.00
10% Contingencies:	\$6,100.00
Total w/ Contingencies:	\$66,900.00

TOTAL: \$ 268,275.00

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Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 7.1 - Extend Hangar Access Taxilane (Extension of TW B5)

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 33,100.00	\$ 33,100.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 4,000.00	\$ 4,000.00
1.03	G-202	Safety and Security	LS	1	\$ 3,000.00	\$ 3,000.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 4,000.00	\$ 4,000.00
1.05	G-205	Temporary Construction Items	LS	1	\$ 6,000.00	\$ 6,000.00
1.06	G-206	Trench Safety	LS	1	\$ 7,500.00	\$ 7,500.00
1.07	G-209	Drainage Improvements	LS	1	\$ 15,000.00	\$ 15,000.00
1.08	FAA P-152	Unclassified Excavation	CY	2,261	\$ 15.00	\$ 33,915.00
1.09	FAA P-152	Embankment in Place	CY	2,261	\$ 20.00	\$ 45,220.00
1.10	FAA P-152	Undercut and Replace Unsuitable Subgrade	CY	227	\$ 55.00	\$ 12,485.00
1.11	FAA P-152	Subgrade Preparation/Mechanical Reworking of Existing Subgrade Material	CY	2,386	\$ 8.00	\$ 19,088.00
1.12	FAA P-155	Lime Treated Subgrade	SY	2,261	\$ 6.00	\$ 13,566.00
1.13	FAA P-155	Hydrated Lime	TON	46	\$ 200.00	\$ 9,200.00
1.14	FAA P-156	Installation and Removal of Silt Fence	LF	1,039	\$ 5.00	\$ 5,195.00
1.15	FAA P-401	4" HMA Stabilized Base Course	TON	454	\$ 180.00	\$ 81,720.00
1.16	FAA P-501	17" PCC Pavement	SY	1,856	\$ 75.00	\$ 139,200.00
1.17	FAA P-602	Bituminous Prime Coat	GAL	453	\$ 4.00	\$ 1,812.00
1.18	FAA P-603	Bituminous Tack Coat	GAL	202	\$ 4.00	\$ 808.00
1.19	FAA T-901	Seeding	SY	3,250	\$ 0.50	\$ 1,625.00
1.20	FAA T-904	Sodding	SY	640	\$ 4.00	\$ 2,560.00
1.21	FAA T-905	Topsoiling	SY	3,889	\$ 3.75	\$ 14,583.75
1.22	TxDOT 506	Stormwater Pollution Prevention Plan	LS	1	\$ 5,000.00	\$ 5,000.00
1.23	TxDOT 506	Temporary Rock Construction Exit, Type 1	EA	1	\$ 5,000.00	\$ 5,000.00
Subtotal (Estimated):						\$ 463,577.75
20% Contingencies:						\$ 92,715.55
Total w/ Contingencies (Estimated):						\$ 556,293.30
Anticipated Construction Duration: 60 Calendar Days						

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$35,000.00
Survey:	\$3,400.00
Geotechnical Investigating:	\$5,700.00
Engineering Construction Administration:	\$16,000.00
Resident Project Representative:	\$35,200.00
Construction Materials Testing:	\$11,200.00
Construction Survey Verification:	\$1,900.00
Close-Out:	\$1,800.00

Subtotal:	\$110,200.00
10% Contingencies:	\$11,020.00
Total w/ Contingencies:	\$121,220.00



Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 7.1 - Extend Hangar Access Taxilane (Extension of TW B5)

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
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TOTAL: \$ 677,513.30

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LOCATION: McKinney National Airport

PROJECT: 7.2 - Extend Hangar Access Taxilane (Extension/Reconstruction of TW B5)

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 97,800.00	\$ 97,800.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 4,000.00	\$ 4,000.00
1.03	G-202	Safety and Security	LS	1	\$ 4,500.00	\$ 4,500.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 6,000.00	\$ 6,000.00
1.05	G-205	Temporary Construction Items	LS	1	\$ 9,000.00	\$ 9,000.00
1.06	G-206	Trench Safety	LS	1	\$ 7,500.00	\$ 7,500.00
1.07	G-209	Drainage Improvements	LS	1	\$ 15,000.00	\$ 15,000.00
1.08	FAA P-101	PCC Surface Course Removal	SY	4,363	\$ 8.00	\$ 34,902.73
1.09	FAA P-152	Unclassified Excavation	CY	4,043	\$ 15.00	\$ 60,645.00
1.10	FAA P-152	Embankment in Place	CY	3,207	\$ 20.00	\$ 64,144.97
1.11	FAA P-152	Undercut and Replace Unsuitable Subgrade	CY	405	\$ 55.00	\$ 22,275.00
1.12	FAA P-152	Subgrade Preparation/Mechanical Reworking of Existing Subgrade Material	CY	8,289	\$ 8.00	\$ 66,312.00
1.13	FAA P-155	Lime Treated Subgrade	SY	7,853	\$ 6.00	\$ 47,118.00
1.14	FAA P-155	Hydrated Lime	TON	159	\$ 200.00	\$ 31,800.00
1.15	FAA P-156	Installation and Removal of Silt Fence	LF	1,039	\$ 5.00	\$ 5,195.00
1.16	FAA P-401	4" HMA Stabilized Base Course	TON	1,588	\$ 180.00	\$ 285,840.00
1.17	FAA P-501	17" PCC Pavement	SY	6,530	\$ 75.00	\$ 489,750.00
1.18	FAA P-602	Bituminous Prime Coat	GAL	1,571	\$ 4.00	\$ 6,284.00
1.19	FAA P-603	Bituminous Tack Coat	GAL	706	\$ 4.00	\$ 2,824.00
1.20	FAA D-701	Protect Existing Storm Pipe in Place	LS	1	\$ 8,000.00	\$ 8,000.00
1.21	FAA T-901	Seeding	SY	8,263	\$ 0.50	\$ 4,131.50
1.22	FAA T-904	Sodding	SY	2,020	\$ 4.00	\$ 8,080.00
1.23	FAA T-905	Topsoiling	SY	10,273	\$ 3.75	\$ 38,523.75
1.24	16090	Remove and Salvage Elevated Light/Remove Base Can in Modified Pavement Areas	EA	3	\$ 250.00	\$ 750.00
1.25	16116	Concrete Encased Duct Bank	LF	77	\$ 100.00	\$ 7,700.00
1.26	16116	L-851 Cable and Counterpoise	LF	170	\$ 5.00	\$ 850.00
1.27	16530	Install New Sign, including Foundation	EA	1	\$ 5,000.00	\$ 5,000.00
1.28	TxDOT 506	Stormwater Pollution Prevention Plan	LS	1	\$ 5,000.00	\$ 5,000.00
1.29	TxDOT 506	Temporary Rock Construction Exit, Type 1	EA	1	\$ 5,000.00	\$ 5,000.00
Subtotal (Estimated):						\$ 1,343,925.95
20% Contingencies:						\$ 268,785.19



Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 7.2 - Extend Hangar Access Taxilane (Extension/Reconstruction of TW B5)

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Total w/ Contingencies (Estimated):						\$ 1,612,711.14
Anticipated Construction Duration: 90 Calendar Days						

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$87,500.00
Survey:	\$9,800.00
Geotechnical Investigating:	\$16,400.00
Engineering Construction Administration:	\$24,000.00
Resident Project Representative:	\$52,800.00
Construction Materials Testing:	\$39,200.00
Construction Survey Verification:	\$6,600.00
Close-Out:	\$4,400.00

Subtotal: \$240,700.00

10% Contingencies: \$24,070.00

Total w/ Contingencies: \$264,770.00

TOTAL: \$ 1,877,481.14

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LOCATION: McKinney National Airport

PROJECT: 8 - Extend Hangar Access Taxilane (Extension of TW B4) and Construct Five T-Hangar Taxilanes

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 570,800.00	\$ 570,800.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 4,000.00	\$ 4,000.00
1.03	G-202	Safety and Security	LS	1	\$ 7,500.00	\$ 7,500.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 10,000.00	\$ 10,000.00
1.05	G-204	Temporary Construction Items	LS	1	\$ 15,000.00	\$ 15,000.00
1.06	G-205	Trench Safety	LS	1	\$ 7,500.00	\$ 7,500.00
1.07	G-206	C900 PVC Water Line	LF	3,022	\$ 55.00	\$ 166,210.00
1.08	G-207	Fire Hydrant Assembly	EA	6	\$ 4,500.00	\$ 27,000.00
1.09	G-208	SDR 26 PVC Gravity Sanitary Sewer by Open Cut	LF	688	\$ 125.00	\$ 86,000.00
1.10	FAA P-152	Unclassified Excavation	CY	47,642	\$ 15.00	\$ 714,630.00
1.11	FAA P-152	Embankment in Place	CY	47,642	\$ 20.00	\$ 952,840.00
1.12	FAA P-152	Undercut and Replace Unsuitable Subgrade	CY	4,765	\$ 55.00	\$ 262,075.00
1.13	FAA P-152	Subgrade Preparation/Mechanical Reworking of Existing Subgrade Material	CY	50,289	\$ 8.00	\$ 402,312.00
1.14	FAA P-155	Lime Treated Subgrade	SY	29,790	\$ 6.00	\$ 178,740.00
1.15	FAA P-155	Hydrated Lime	TON	601	\$ 200.00	\$ 120,200.00
1.16	FAA P-156	Installation and Removal of Silt Fence	LF	3,089	\$ 5.00	\$ 15,445.00
1.17	FAA P-401	4" HMA Stabilized Base Course	TON	6,513	\$ 180.00	\$ 1,172,340.00
1.18	FAA P-501	8" PCC Pavement	SY	22,371	\$ 70.00	\$ 1,565,970.00
1.19	FAA P-501	17" PCC Pavement	SY	5,724	\$ 75.00	\$ 429,300.00
1.20	FAA P-602	Bituminous Prime Coat	GAL	5,789	\$ 4.00	\$ 23,156.00
1.21	FAA P-603	Bituminous Tack Coat	GAL	2,895	\$ 4.00	\$ 11,580.00
1.22	FAA P-620	Reflectorized Pavement Marking (Yellow)	SF	250	\$ 2.00	\$ 500.00
1.23	FAA P-620	Non-Reflectorized Pavement Marking (Black)	SF	500	\$ 2.00	\$ 1,000.00
1.24	FAA P-620	Non-Reflectorized Pavement Marking (Red)	SF	2,607	\$ 2.00	\$ 5,214.00
1.25	FAA D-701	ASTM C-76, Class IV RCP	LF	300	\$ 30.00	\$ 9,000.00
1.26	FAA D-702	Trench Drain	LF	1,500	\$ 275.00	\$ 412,500.00
1.27	FAA D-751	4' Diameter Pre-Cast Standard Manhole	EA	4	\$ 150.00	\$ 600.00
1.28	FAA D-751	3' x 3' Grate Inlet	EA	3	\$ 1,500.00	\$ 4,500.00
1.29	FAA D-752	Sloped End Treatment	EA	1	\$ 3,000.00	\$ 3,000.00
1.30	FAA F-161	Remove Existing Chain-Link Security Fence	LF	950	\$ 12.00	\$ 11,400.00

LOCATION: McKinney National Airport

PROJECT: 8 - Extend Hangar Access Taxilane (Extension of TW B4) and Construct Five T-Hangar Taxilanes RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
1.31	FAA F-162	7'-Tall Chain-Link Security Fence with 3-Strand Barbed Wire Top	LF	2,537	\$ 65.00	\$ 164,905.00
1.32	FAA F-162	3'-Wide Wildlife Deterrent Concrete Base	LF	2,537	\$ 25.00	\$ 63,425.00
1.33	FAA F-162	Perimeter Fence Airport Security Signage	LS	1	\$ 5,000.00	\$ 5,000.00
1.34	FAA T-901	Seeding	SY	2,383	\$ 0.50	\$ 1,191.50
1.35	FAA T-904	Sodding	SY	2,710	\$ 4.00	\$ 10,840.00
1.36	FAA T-905	Topsoiling	SY	5,092	\$ 3.75	\$ 19,095.00
1.37	TxDOT 506	Stormwater Pollution Prevention Plan	LS	1	\$ 5,000.00	\$ 5,000.00
1.38	TxDOT 506	Inlet Protection	EA	2	\$ 500.00	\$ 1,000.00
1.39	TxDOT 506	Temporary Rock Construction Exit, Type 1	EA	1	\$ 5,000.00	\$ 5,000.00
1.40		Coordination with Utility Companies	LS	1	\$ 1,000.00	\$ 1,000.00
1.41		Subsurface Utility Explorations	LS	1	\$ 8,000.00	\$ 8,000.00
1.42	16116	L-851 Cable and Counterpoise	LF	9,080	\$ 5.00	\$ 45,400.00
1.43	16116	Install new 2" Sched. 40 PVC Conduit	LF	3,632	\$ 5.00	\$ 18,160.00
1.44	16530	Connect to existing fixture	EA	8	\$ 1,000.00	\$ 8,000.00
1.45	16530	Install new L-861T(L) fixture in new base can in modified pavement shoulder	EA	38	\$ 1,200.00	\$ 45,600.00
1.46		CCTV System, Limited Site Lines	LS	1	\$ 50,000.00	\$ 50,000.00
1.47		Emergency Phone System	LS	1	\$ 50,000.00	\$ 50,000.00
1.48		Power	LS	1	\$ 25,000.00	\$ 25,000.00
1.49		Site Lighting	LS	1	\$ 25,000.00	\$ 25,000.00
Subtotal (Estimated):					\$ 7,741,928.50	
20% Contingencies:					\$ 1,548,385.70	
Total w/ Contingencies (Estimated):					\$ 9,290,314.20	
Anticipated Construction Duration: 150 Calendar Days						

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$425,100.00
Survey:	\$14,100.00
Geotechnical Investigating:	\$42,200.00
Engineering Construction Administration:	\$40,000.00
Resident Project Representative:	\$88,000.00
Construction Materials Testing:	\$112,400.00
Construction Survey Verification:	\$28,100.00
Close-Out:	\$21,300.00

Subtotal:	\$771,200.00
10% Contingencies:	\$77,120.00
Total w/ Contingencies:	\$848,320.00

TOTAL: \$10,138,634.20



Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 8 - Extend Hangar Access Taxilane (Extension of TW B4) and Construct Five T-Hangar Taxilanes

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
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LOCATION: McKinney National Airport

PROJECT: 10 - Extend Runway 18-36 and Parallel Taxiway B 1,500' South
(Include Relocation of PAPI-4 and Construction of Holding Bay)

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 952,500.00	\$ 952,500.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 4,000.00	\$ 4,000.00
1.03	G-202	Safety and Security	LS	1	\$ 12,000.00	\$ 12,000.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 16,000.00	\$ 16,000.00
1.05	G-204	Pavement Marking Obliteration	SF	33,248	\$ 2.00	\$ 66,496.00
1.06	G-205	Temporary Construction Items	LS	1	\$ 24,000.00	\$ 24,000.00
1.07	G-206	Trench Safety	LS	1	\$ 10,000.00	\$ 10,000.00
1.08	G-209	Drainage Improvements	LS	1	\$ 25,000.00	\$ 25,000.00
1.09	G-210	Protect Existing Gas Line in Place	LS	1	\$ 100,000.00	\$ 100,000.00
1.10	G-211	Remove Existing Service Road	LF	1,471	\$ 10.00	\$ 14,710.00
1.11		Memorandum of Agreement (MOA)	LS	1	\$ 250,000.00	\$ 250,000.00
1.12	FAA P-151	Clearing and Grubbing	ACRE	39	\$ 4,000.00	\$ 156,000.00
1.13	FAA P-152	Unclassified Excavation	CY	173,402	\$ 10.00	\$ 1,734,020.00
1.14	FAA P-152	Embankment in Place	CY	63,002	\$ 15.00	\$ 945,030.00
1.15	FAA P-152	Undercut and Replace Unsuitable Subgrade	CY	8,671	\$ 55.00	\$ 476,905.00
1.16	FAA P-152	Subgrade Preparation/Mechanical Reworking of Existing Subgrade Material	CY	55,419	\$ 8.00	\$ 443,352.00
1.17	FAA P-155	Lime Treated Subgrade	SY	52,502	\$ 6.00	\$ 315,012.00
1.18	FAA P-155	Hydrated Lime	TON	1,059	\$ 200.00	\$ 211,800.00
1.19	FAA P-156	Installation and Removal of Silt Fence	LF	4,425	\$ 5.00	\$ 22,125.00
1.20	FAA P-401	4" HMA Stabilized Base Course	TON	10,762	\$ 160.00	\$ 1,721,920.00
1.21	FAA P-501	17" PCC Pavement	SY	44,007	\$ 80.00	\$ 3,520,560.00
1.22	FAA P-602	Bituminous Prime Coat	GAL	9,567	\$ 4.00	\$ 38,268.00
1.23	FAA P-603	Bituminous Tack Coat	GAL	4,784	\$ 4.00	\$ 19,136.00
1.24	FAA P-620	Reflectorized Pavement Marking (White)	SF	28,380	\$ 2.00	\$ 56,760.00
1.25	FAA P-620	Reflectorized Pavement Marking (Yellow)	SF	7,143	\$ 2.00	\$ 14,286.00
1.26	FAA P-620	Non-Reflectorized Pavement Marking (Black)	SF	15,577	\$ 2.00	\$ 31,154.00
1.27	FAA P-621	Pavement Grooving	SY	23,329	\$ 4.00	\$ 93,316.00
1.28	FAA F-162	Chain-Link Fence	LF	6,712	\$ 65.00	\$ 436,280.00
1.29	FAA F-162	3'-Wide Wildlife Deterrent Concrete Base	LF	6,712	\$ 25.00	\$ 167,800.00
1.30	FAA F-162	Perimeter Fence Airport Security Signage	LS	1	\$ 5,000.00	\$ 5,000.00
1.31	FAA F-162	Manual Gate	EA	1	\$ 10,000.00	\$ 10,000.00
1.32	FAA D-701	ASTM C-76, Class IV RCP	LF	470	\$ 100.00	\$ 47,000.00
1.33	FAA D-751	3' x 3' Grate Inlet	EA	1	\$ 6,000.00	\$ 6,000.00
1.34	FAA D-752	Sloped End Treatment	EA	4	\$ 5,000.00	\$ 20,000.00



Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 10 - Extend Runway 18-36 and Parallel Taxiway B 1,500' South
(Include Relocation of PAPI-4 and Construction of Holding Bay)

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
1.35	FAA T-901	Seeding	SY	77,139	\$ 0.50	\$ 38,569.50
1.36	FAA T-904	Sodding	SY	6,320	\$ 4.00	\$ 25,280.00
1.37	FAA T-905	Topsoiling	SY	83,449	\$ 3.75	\$ 312,933.75
1.38	TxDOT 506	Stormwater Pollution Prevention Plan	LS	1	\$ 5,000.00	\$ 5,000.00
1.39	TxDOT 506	Temporary Rock Construction Exit, Type 1	EA	1	\$ 5,000.00	\$ 5,000.00
1.40		Coordination with Utility Companies	LS	1	\$ 1,000.00	\$ 1,000.00
1.41		Subsurface Utility Explorations	LS	1	\$ 10,000.00	\$ 10,000.00
1.42	16090	Remove and Salvage Sign/Remove Sign Pad	EA	9	\$ 3,000.00	\$ 27,000.00
1.43	16090	Runway Edge Lighting Spacing Modifications - Threshold Lights	EA	8	\$ 1,000.00	\$ 8,000.00
1.44	16090	Remove and Salvage Elevated Edge Light/Remove Base Can in Modified Pavement Areas	EA	13	\$ 500.00	\$ 6,500.00
1.45	16090	Demolish Existing MALSR	LS	1	\$ 5,000.00	\$ 5,000.00
1.46	16090	Remove Existing Electrical Conduit and Cables	LF	700	\$ 2.00	\$ 1,400.00
1.47	16116	L-851 Cable and Counterpoise	LF	26,875	\$ 5.00	\$ 134,375.00
1.48	16116	Concrete Encased Duct Bank	LF	408	\$ 100.00	\$ 40,800.00
1.49	16116	Install new 2" Sched. 40 PVC Conduit	LF	10,750	\$ 5.00	\$ 53,750.00
1.50	16530	Connect to existing fixture	EA	5	\$ 1,000.00	\$ 5,000.00
1.51	16530	Relocate PAPI-4s	LS	1	\$ 15,000.00	\$ 15,000.00
1.52	16530	Install New Direction Sign, Including Foundation	EA	19	\$ 6,000.00	\$ 114,000.00
1.53	16530	Install New Distance Remaining Sign, Including Foundation	EA	7	\$ 6,000.00	\$ 42,000.00
1.54	16530	Install new L-861 fixture in new base can in new pavement shoulder	EA	16	\$ 1,200.00	\$ 19,200.00
1.55	16530	Install new L-861T(L) fixture in new base can in modified pavement shoulder	EA	79	\$ 1,200.00	\$ 94,800.00
1.56		Upgrade Regulator	LS	1	\$ 40,000.00	\$ 40,000.00
1.57		Protect Existing Utilities in Place	LS	1	\$ 10,000.00	\$ 10,000.00
					Subtotal (Estimated):	\$ 12,981,038.25
					20% Contingencies:	\$ 2,596,207.65
					Total w/ Contingencies (Estimated):	\$ 15,577,245.90

Anticipated Construction Duration: 240 Calendar Days

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$701,000.00
Survey:	\$22,100.00
Geotechnical Investigating:	\$66,100.00
Engineering Construction Administration:	\$64,000.00
Resident Project Representative:	\$140,800.00
Construction Materials Testing:	\$176,100.00



Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 10 - Extend Runway 18-36 and Parallel Taxiway B 1,500' South
(Include Relocation of PAPI-4 and Construction of Holding Bay)

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Construction Survey Verification:						\$44,100.00
Close-Out:						\$35,100.00
Subtotal:						\$1,249,300.00
10% Contingencies:						\$124,930.00
Total w/ Contingencies:						\$1,374,230.00
TOTAL: \$ 16,951,475.90						

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LOCATION: McKinney National Airport

PROJECT: 11 - Implement MALSR Serving Runway 36

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 142,200.00	\$ 142,200.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 6,000.00	\$ 6,000.00
1.03	G-202	Safety and Security	LS	1	\$ 6,000.00	\$ 6,000.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 6,000.00	\$ 6,000.00
1.05	G-205	Temporary Construction Items	LS	1	\$ 12,000.00	\$ 12,000.00
1.06	16530	Implement New MALSR Serving Runway 36	LS	1	\$ 1,000,000.00	\$ 1,000,000.00
1.07	G-206	Memorandum of Agreement	LS	1	\$ 250,000.00	\$ 250,000.00
					Subtotal (Estimated):	\$ 1,422,200.00
					25% Contingencies:	\$ 355,550.00
					Total w/ Contingencies (Estimated):	\$ 1,777,750.00
Anticipated Construction Duration: 120 Calendar Days						

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$97,000.00
Survey:	\$10,000.00
Geotechnical Investigating:	\$8,000.00
Engineering Construction Administration:	\$32,000.00
Resident Project Representative:	\$70,400.00
Construction Materials Testing:	\$8,000.00
Construction Survey Verification:	\$2,000.00
Close-Out:	\$4,900.00
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Subtotal:	\$232,300.00
10% Contingencies:	\$23,300.00
Total w/ Contingencies:	\$255,600.00

TOTAL: \$ 2,033,350.00

Basis for EOPC:

- No Design Completed
- 90% Design Documents
- Sealed Documents

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LOCATION: McKinney National Airport

PROJECT: 3 - Construct Hangar Access Taxilane Immediately North of Existing Fuel Farm

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 116,700.00	\$ 116,700.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 4,000.00	\$ 4,000.00
1.03	G-202	Safety and Security	LS	1	\$ 6,000.00	\$ 6,000.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 8,000.00	\$ 8,000.00
1.05	G-204	Pavement Marking Obliteration	SF	385	\$ 4.00	\$ 1,540.00
1.06	G-205	Temporary Construction Items	LS	1	\$ 12,000.00	\$ 12,000.00
1.07	G-206	Trench Safety	LS	1	\$ 7,500.00	\$ 7,500.00
1.08	G-209	Drainage Improvements	LS	1	\$ 10,000.00	\$ 10,000.00
1.09	FAA P-152	Unclassified Excavation	CY	8,260	\$ 15.00	\$ 123,900.00
1.10	FAA P-152	Embankment in Place	CY	5,534	\$ 20.00	\$ 110,684.00
1.11	FAA P-152	Undercut and Replace Unsuitable Subgrade	CY	826	\$ 55.00	\$ 45,430.00
1.12	FAA P-152	Subgrade Preparation/Mechanical Reworking of Existing Subgrade Material	CY	8,719	\$ 8.00	\$ 69,752.00
1.13	FAA P-155	Lime Treated Subgrade	SY	6,883	\$ 6.00	\$ 41,298.00
1.14	FAA P-155	Hydrated Lime	TON	139	\$ 200.00	\$ 27,800.00
1.15	FAA P-156	Installation and Removal of Silt Fence	LF	2,495	\$ 5.00	\$ 12,475.00
1.16	FAA P-401	4" HMA Stabilized Base Course	TON	1,383	\$ 180.00	\$ 248,940.00
1.17	FAA P-501	8" PCC Pavement	SY	5,663	\$ 70.00	\$ 396,410.00
1.18	FAA P-602	Bituminous Prime Coat	GAL	1,230	\$ 4.00	\$ 4,920.00
1.19	FAA P-603	Bituminous Tack Coat	GAL	615	\$ 4.00	\$ 2,460.00
1.20	FAA P-620	ReflectORIZED Pavement Marking (Yellow)	SF	346	\$ 2.00	\$ 692.00
1.21	FAA P-620	Non-ReflectORIZED Pavement Marking (Black)	SF	570	\$ 2.00	\$ 1,140.00
1.22	FAA P-620	Non-ReflectORIZED Pavement Marking (Red)	SF	926	\$ 3.00	\$ 2,778.00
1.23	FAA D-701	ASTM C-76, Class IV RCP	LF	79	\$ 30.00	\$ 2,370.00
1.24	FAA D-702	Trench Drain	LF	900	\$ 275.00	\$ 247,500.00
1.25	FAA D-751	3' x 3' Grate Inlet	EA	5	\$ 1,500.00	\$ 7,500.00
1.26	FAA D-752	Sloped End Treatment	EA	2	\$ 5,000.00	\$ 10,000.00
1.27	FAA T-901	Seeding	SY	1,795	\$ 0.50	\$ 897.50
1.28	FAA T-904	Sodding	SY	1,990	\$ 4.00	\$ 7,960.00
1.29	FAA T-905	Topsoiling	SY	3,781	\$ 3.75	\$ 14,178.75
1.30	TxDOT 506	Stormwater Pollution Prevention Plan	LS	1	\$ 5,000.00	\$ 5,000.00
1.31	TxDOT 506	Temporary Rock Construction Exit, Type 1	EA	1	\$ 5,000.00	\$ 5,000.00
1.32		Coordination with Utility Companies	LS	1	\$ 1,000.00	\$ 1,000.00
1.33		Subsurface Utility Explorations	LS	1	\$ 8,000.00	\$ 8,000.00
1.34	16090	Remove Existing Electrical Conduit and Cables	LF	550	\$ 2.00	\$ 1,100.00
1.35	16090	Remove and Salvage Elevated Light/Remove Base Can in Modified Pavement Areas	EA	2	\$ 5.00	\$ 10.00

LOCATION: McKinney National Airport

PROJECT: 3 - Construct Hangar Access Taxilane Immediately North of Existing Fuel Farm

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
1.36	16116	L-851 Cable and Counterpoise	LF	923	\$ 5.00	\$ 4,612.50
1.37	16116	Install new 2" Sched. 40 PVC Conduit	LF	369	\$ 5.00	\$ 1,845.00
1.38	16116	Concrete Encased Duct Bank (2-way)	LF	70	\$ 100.00	\$ 7,000.00
1.39	16530	Connect to existing fixture	EA	2	\$ 1,000.00	\$ 2,000.00
1.40	16530	Install New Sign, including Foundation	EA	2	\$ 6,000.00	\$ 12,000.00
1.41	16530	Install new L-861T(L) fixture in new base can in modified pavement shoulder	EA	12	\$ 1,200.00	\$ 14,400.00
Subtotal (Estimated):						\$ 1,606,792.75
20% Contingencies:						\$ 321,358.55
Total w/ Contingencies (Estimated):						\$ 1,928,151.30
Anticipated Construction Duration: 120 Calendar Days						

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$104,700.00
Survey:	\$8,500.00
Geotechnical Investigating:	\$14,200.00
Engineering Construction Administration:	\$32,000.00
Resident Project Representative:	\$70,400.00
Construction Materials Testing:	\$34,000.00
Construction Survey Verification:	\$5,700.00
Close-Out:	\$5,300.00

Subtotal:	\$274,800.00
10% Contingencies:	\$27,480.00
Total w/ Contingencies:	\$302,280.00

TOTAL: \$ 2,230,431.30

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LOCATION: McKinney National Airport

PROJECT: 4 - Expand Existing Fuel Farm

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 160,600.00	\$ 160,600.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 4,000.00	\$ 4,000.00
1.03	G-202	Safety and Security	LS	1	\$ 1,500.00	\$ 1,500.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 4,000.00	\$ 4,000.00
1.05	G-205	Temporary Construction Items	LS	1	\$ 3,000.00	\$ 3,000.00
1.06		30,000 Gallon Fuel Tank	EA	6	\$ 250,000.00	\$ 1,500,000.00
Subtotal (Estimated):						\$ 1,673,100.00
20% Contingencies:						\$ 334,620.00
Total w/ Contingencies (Estimated):						\$ 2,007,720.00
Anticipated Construction Duration: 30 Calendar Days						

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$106,500.00
Survey:	\$0.00
Geotechnical Investigating:	\$0.00
Engineering Construction Administration:	\$8,000.00
Resident Project Representative:	\$17,600.00
Construction Materials Testing:	\$0.00
Construction Survey Verification:	\$0.00
Close-Out:	\$0.00

Subtotal:	\$132,100.00
10% Contingencies:	\$13,210.00
Total w/ Contingencies:	\$145,310.00

TOTAL: \$ 2,153,030.00

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LOCATION: McKinney National Airport

PROJECT: 5 - Construct Four (4) T-Hangar/Linear Box Hangar Complexes on West Side

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 255,100.00	\$ 255,100.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 4,000.00	\$ 4,000.00
1.03	G-202	Safety and Security	LS	1	\$ 12,000.00	\$ 12,000.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 16,000.00	\$ 16,000.00
1.05	G-204	Temporary Construction Items	LS	1	\$ 24,000.00	\$ 24,000.00
1.06	G-205	Trench Safety	LS	1	\$ 7,500.00	\$ 7,500.00
1.07	G-206	Hangar Building System	LS	1	\$1,150,000.00	\$ 1,150,000.00
1.08	G-207	Hangar Subgrade Preparation	LS	1	\$ 450,000.00	\$ 450,000.00
1.09	G-208	Provide Electrical Service	LS	1	\$ 75,000.00	\$ 75,000.00
1.10	G-209	Install PVC Water Line	LF	2,000	\$ 55.00	\$ 110,000.00
1.11	G-212	Install Wastewater Service Line	LF	2,000	\$ 50.00	\$ 100,000.00
1.12	FAA P-152	Unclassified Excavation	CY	2,750	\$ 15.00	\$ 41,250.00
1.13	FAA P-152	Embankment in Place	CY	1,950	\$ 20.00	\$ 39,000.00
1.14	FAA P-152	Undercut and Replace Unsuitable Subgrade	CY	300	\$ 55.00	\$ 16,500.00
1.15	FAA P-155	Lime Treated Subgrade	SY	2,750	\$ 6.00	\$ 16,500.00
1.16	FAA P-155	Hydrated Lime	TON	60	\$ 200.00	\$ 12,000.00
1.17	FAA P-401	4" HMA Stabilized Base Course	TON	675	\$ 180.00	\$ 121,500.00
1.18	FAA P-501	8" PCC Pavement	SY	2,750	\$ 70.00	\$ 192,500.00
1.19	FAA P-602	Bituminous Prime Coat	GAL	580	\$ 4.00	\$ 2,320.00
1.20	FAA P-603	Bituminous Tack Coat	GAL	580	\$ 4.00	\$ 2,320.00
1.21	TxDOT 506	Stormwater Pollution Prevention Plan	LS	1	\$ 5,000.00	\$ 5,000.00
1.22	TxDOT 506	Temporary Rock Construction Exit, Type 1	EA	1	\$ 5,000.00	\$ 5,000.00
					Subtotal (Estimated):	\$ 2,657,490.00
					20% Contingencies:	\$ 531,498.00
					Total w/ Contingencies (Estimated):	\$ 3,188,988.00
Anticipated Construction Duration: 240 Calendar Days						

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$161,900.00
Survey:	\$10,000.00
Geotechnical Investigating:	\$20,000.00
Engineering Construction Administration:	\$64,000.00
Resident Project Representative:	\$140,800.00
Construction Materials Testing:	\$30,000.00
Construction Survey Verification:	\$0.00
Close-Out:	\$8,100.00

Subtotal:	\$434,800.00
10% Contingencies:	\$43,480.00
Total w/ Contingencies:	\$478,280.00

TOTAL: \$ 3,667,268.00



Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 5 - Construct Four (4) T-Hangar/Linear Box Hangar Complexes on West Side

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
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LOCATION: McKinney National Airport

PROJECT: 6 - Remove T-Hangars and Box Hangar Complexes on South Apron

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 383,700.00	\$ 383,700.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 4,000.00	\$ 4,000.00
1.03	G-202	Safety and Security	LS	1	\$ 7,500.00	\$ 7,500.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 10,000.00	\$ 10,000.00
1.05	G-204	Pavement Marking Obliteration	SF	735	\$ 2.00	\$ 1,470.00
1.06	G-205	Temporary Construction Items	LS	1	\$ 15,000.00	\$ 15,000.00
1.07	G-212	Demolish Hangar	SF	92,700	\$ 0.75	\$ 69,525.00
1.08	G-213	Remove Bollards	EA	23	\$ 500.00	\$ 11,500.00
1.09	G-214	Protect Existing Security Fence in-place	LS	1	\$ 2,000.00	\$ 2,000.00
1.10	G-215	Manhole Adjustments	EA	10	\$ 2,500.00	\$ 25,000.00
1.11	FAA P-101	Crushed Aggregate Base Course Removal	SY	31,195	\$ 5.00	\$ 155,975.00
1.12	FAA P-101	PCC Removal	SY	29,710	\$ 2.00	\$ 59,420.00
1.13	FAA P-152	Unclassified Excavation	CY	4,628	\$ 15.00	\$ 69,420.00
1.14	FAA P-152	Embankment in Place	CY	1,000	\$ 20.00	\$ 20,000.00
1.15	FAA P-152	Undercut and Replace Unsuitable Subgrade	CY	534	\$ 55.00	\$ 29,370.00
1.16	FAA P-152	Subgrade Preparation/Mechanical Reworking of Existing Subgrade Material	CY	2,400	\$ 8.00	\$ 19,200.00
1.17	FAA P-156	Erosion and Sedimentation Control	LS	1	\$ 5.00	\$ 5.00
1.18	FAA P-155	Lime Treated Subgrade	SY	31,987	\$ 6.00	\$ 191,922.00
1.19	FAA P-155	Hydrated Lime	TON	645	\$ 200.00	\$ 129,000.00
1.20	FAA P-401	4" HMA Stabilized Base Course	TON	7,198	\$ 180.00	\$ 1,295,640.00
1.21	FAA P-501	17" PCC Pavement	SY	31,987	\$ 75.00	\$ 2,399,025.00
1.22	FAA P-602	Bituminous Prime Coat	GAL	6,239	\$ 4.00	\$ 24,956.00
1.23	FAA P-603	Bituminous Tack Coat	GAL	3,120	\$ 4.00	\$ 12,480.00
1.24	FAA D-701	ASTM C-76, Class IV RCP	LF	965	\$ 200.00	\$ 193,000.00
1.25	FAA D-705	PVC Underdrain Pipe	LF	1,890	\$ 55.00	\$ 103,950.00
1.26	FAA D-705	Connect Underdrain Pipe to Structure	EA	18	\$ 500.00	\$ 9,000.00
1.27	FAA D-751	Remove Existing Inlets	EA	6	\$ 500.00	\$ 3,000.00
1.28	FAA D-751	3' x 3' Grate Inlet	EA	9	\$ 6,000.00	\$ 54,000.00
1.29	FAA T-901	Seeding	SY	170	\$ 0.50	\$ 85.00



Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 6 - Remove T-Hangars and Box Hangar Complexes on South Apron

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
1.30	FAA T-904	Sodding	SY	454	\$ 4.00	\$ 1,816.00
1.31	FAA T-905	Topsoiling	SY	624	\$ 3.75	\$ 2,340.00
1.32	TxDOT 506	Stormwater Pollution Prevention Plan	LS	1	\$ 5,000.00	\$ 5,000.00
1.33	TxDOT 506	Temporary Rock Construction Exit, Type 1	EA	1	\$ 5,000.00	\$ 5,000.00
1.34	16090	Remove and Salvage Elevated Edge Light/Remove Base Can	EA	4	\$ 500.00	\$ 2,000.00
1.35	16090	Remove Existing Electrical Conduit and Cables	LF	120	\$ 2.00	\$ 240.00
1.36		Coordination with Utility Companies	LS	1	\$ 1,000.00	\$ 1,000.00
1.37		Protect Existing Utilities in Place	LS	1	\$ 10,000.00	\$ 10,000.00
Subtotal (Estimated):						\$ 5,326,539.00
20% Contingencies:						\$ 1,065,307.80
Total w/ Contingencies (Estimated):						\$ 6,391,846.80
Anticipated Construction Duration: 150 Calendar Days						

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$302,100.00
Survey:	\$16,000.00
Geotechnical Investigating:	\$48,000.00
Engineering Construction Administration:	\$40,000.00
Resident Project Representative:	\$88,000.00
Construction Materials Testing:	\$128,000.00
Construction Survey Verification:	\$16,000.00
Close-Out:	\$15,200.00

Subtotal:	\$653,300.00
10% Contingencies:	\$65,330.00
Total w/ Contingencies:	\$718,630.00

TOTAL: \$ 7,110,476.80

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Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 7 - Construct Hangar Access Taxilane (1,050' x 50') in West Landside Development Area

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 251,700.00	\$ 251,700.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 4,000.00	\$ 4,000.00
1.03	G-202	Safety and Security	LS	1	\$ 6,000.00	\$ 6,000.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 8,000.00	\$ 8,000.00
1.05	G-205	Temporary Construction Items	LS	1	\$ 12,000.00	\$ 12,000.00
1.06	G-206	Trench Safety	LS	1	\$ 7,500.00	\$ 7,500.00
1.07	G-209	Drainage Improvements	LS	1	\$ 10,000.00	\$ 10,000.00
1.08	FAA P-152	Unclassified Excavation	CY	8,480	\$ 15.00	\$ 127,200.00
1.09	FAA P-152	Embankment in Place	CY	5,682	\$ 20.00	\$ 113,632.00
1.10	FAA P-152	Undercut and Replace Unsuitable Subgrade	CY	848	\$ 55.00	\$ 46,640.00
1.11	FAA P-152	Subgrade Preparation/Mechanical Reworking of Existing Subgrade Material	CY	8,952	\$ 8.00	\$ 71,616.00
1.12	FAA P-155	Lime Treated Subgrade	SY	7,067	\$ 6.00	\$ 42,402.00
1.13	FAA P-155	Hydrated Lime	TON	143	\$ 200.00	\$ 28,600.00
1.14	FAA P-156	Installation and Removal of Silt Fence	LF	2,542	\$ 5.00	\$ 12,710.00
1.15	FAA P-401	4" HMA Stabilized Base Course	TON	1,590	\$ 180.00	\$ 286,200.00
1.16	FAA P-501	17" PCC Pavement	SY	7,067	\$ 75.00	\$ 530,025.00
1.17	FAA P-602	Bituminous Prime Coat	GAL	1,414	\$ 4.00	\$ 5,656.00
1.18	FAA P-603	Bituminous Tack Coat	GAL	707	\$ 4.00	\$ 2,828.00
1.19	FAA P-620	Reflectorized Pavement Marking (Yellow)	SF	500	\$ 2.00	\$ 1,000.00
1.20	FAA P-620	Non-Reflectorized Pavement Marking (Black)	SF	750	\$ 2.00	\$ 1,500.00
1.21	FAA P-620	Non-Reflectorized Pavement Marking (Red)	SF	1,000	\$ 3.00	\$ 3,000.00
1.22	FAA D-701	ASTM C-76, Class IV RCP	LF	950	\$ 30.00	\$ 28,500.00
1.23	FAA D-702	Trench Drain	LF	1,000	\$ 275.00	\$ 275,000.00
1.24	FAA D-751	3' x 3' Grate Inlet	EA	6	\$ 1,500.00	\$ 9,000.00
1.25	FAA D-752	Sloped End Treatment	EA	1	\$ 5,000.00	\$ 5,000.00
1.26	FAA T-901	Seeding	SY	14,000	\$ 0.50	\$ 7,000.00
1.27	FAA T-904	Sodding	SY	17,780	\$ 4.00	\$ 71,120.00
1.28	FAA T-905	Topsoiling	SY	31,778	\$ 3.75	\$ 119,167.50
1.29	FAA F-161	Remove Existing Chain-Link Security Fence	LF	900	\$ 4.00	\$ 3,600.00
1.30	FAA F-162	7'-Tall Chain-Link Security Fence with 3-Strand Barbed Wire Top	LF	2,500	\$ 22.00	\$ 55,000.00
1.31	FAA F-162	3'-Wide Wildlife Deterrent Concrete Base	LF	2,500	\$ 450.00	\$ 1,125,000.00
1.32	FAA F-162	Perimeter Fence Airport Security Signage	LS	1	\$ 10,000.00	\$ 10,000.00
1.29	TxDOT 506	Stormwater Pollution Prevention Plan	LS	1	\$ 5,000.00	\$ 5,000.00
1.30	TxDOT 506	Temporary Rock Construction Exit, Type 1	EA	1	\$ 5,000.00	\$ 5,000.00



Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 7 - Construct Hangar Access Taxilane (1,050' x 50') in West Landside Development Area

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
1.31		Coordination with Utility Companies	LS	1	\$ 1,000.00	\$ 1,000.00
1.32		Subsurface Utility Explorations	LS	1	\$ 8,000.00	\$ 8,000.00
1.33	16090	Remove Existing Electrical Conduit and Cables	LF	500	\$ 2.00	\$ 1,000.00
1.34	16090	Remove and Salvage Elevated Light/Remove Base Can in Modified Pavement Areas	EA	2	\$ 250.00	\$ 500.00
1.35	16116	L-851 Cable and Counterpoise	LF	2,625	\$ 5.00	\$ 13,125.00
1.36	16116	Install new 2" Sched. 40 PVC Conduit	LF	1,050	\$ 5.00	\$ 5,250.00
1.37	16116	Concrete Encased Duct Bank (2-way)	LF	100	\$ 100.00	\$ 10,000.00
1.38	16530	Connect to existing fixture	EA	2	\$ 1,000.00	\$ 2,000.00
1.39	16530	Install New Sign, including Foundation	EA	2	\$ 6,000.00	\$ 12,000.00
1.40	16530	Install new L-861T(L) fixture in new base can in modified pavement shoulder	EA	70	\$ 1,200.00	\$ 84,000.00
Subtotal (Estimated):						\$ 3,427,471.50
20% Contingencies:						\$ 685,494.30
Total w/ Contingencies (Estimated):						\$ 4,112,965.80
Anticipated Construction Duration: 120 Calendar Days						

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$201,600.00
Survey:	\$10,700.00
Geotechnical Investigating:	\$17,700.00
Engineering Construction Administration:	\$32,000.00
Resident Project Representative:	\$70,400.00
Construction Materials Testing:	\$42,500.00
Construction Survey Verification:	\$7,100.00
Close-Out:	\$10,100.00

Subtotal:	\$392,100.00
10% Contingencies:	\$39,210.00
Total w/ Contingencies:	\$431,310.00

TOTAL: \$ 4,544,275.80

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LOCATION: McKinney National Airport

PROJECT: 8 - Construct Hangar Access Taxilane (Extension of Taxiway B2) and Hangar Taxilane

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 208,400.00	\$ 208,400.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 6,000.00	\$ 6,000.00
1.03	G-202	Safety and Security	LS	1	\$ 6,000.00	\$ 6,000.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 8,000.00	\$ 8,000.00
1.05	G-205	Temporary Construction Items	LS	1	\$ 16,000.00	\$ 16,000.00
1.06	G-206	Trench Safety	LS	1	\$ 7,500.00	\$ 7,500.00
1.07	FAA P-151	Clearing and Grubbing for Isolated Trees	EA	14	\$ 600.00	\$ 8,400.00
1.08	FAA P-152	Unclassified Excavation	CY	9,783	\$ 10.00	\$ 97,830.00
1.09	FAA P-152	Embankment in Place	CY	2,446	\$ 20.00	\$ 48,915.00
1.10	FAA P-152	Undercut and Replace Unsuitable Subgrade	CY	979	\$ 55.00	\$ 53,845.00
1.11	FAA P-152	Subgrade Preparation/Mechanical Reworking of Existing Subgrade Material	CY	9,388	\$ 8.00	\$ 75,104.00
1.12	FAA P-155	Lime Treated Subgrade	SY	8,894	\$ 6.00	\$ 53,364.00
1.13	FAA P-155	Hydrated Lime	TON	180	\$ 200.00	\$ 36,000.00
1.14	FAA P-156	Installation and Removal of Silt Fence	LF	1,665	\$ 5.00	\$ 8,325.00
1.15	FAA P-401	4" HMA Stabilized Base Course	TON	1,800	\$ 180.00	\$ 324,000.00
1.16	FAA P-501	8" PCC Pavement	SY	7,402	\$ 50.00	\$ 370,100.00
1.17	FAA P-602	Bituminous Prime Coat	GAL	1,600	\$ 4.00	\$ 6,400.00
1.18	FAA P-603	Bituminous Tack Coat	GAL	800	\$ 4.00	\$ 3,200.00
1.19	FAA P-620	Reflectorized Pavement Marking (Yellow)	SF	206	\$ 2.00	\$ 412.00
1.20	FAA P-620	Non-Reflectorized Pavement Marking (Black)	SF	412	\$ 2.00	\$ 824.00
1.21	FAA P-620	Non-Reflectorized Pavement Marking (Red)	SF	884	\$ 2.00	\$ 1,768.00
1.22	FAA F-161	Remove Existing Chain-Link Security Fence	LF	1,300	\$ 4.00	\$ 5,200.00
1.23	FAA F-162	7'-Tall Chain-Link Security Fence with 3-Strand Barbed Wire Top	LF	2,500	\$ 22.00	\$ 55,000.00
1.24	FAA F-162	3'-Wide Wildlife Deterrent Concrete Base	LF	2,500	\$ 450.00	\$ 1,125,000.00
1.25	FAA F-162	Perimeter Fence Airport Security Signage	LS	1	\$ 10,000.00	\$ 10,000.00
1.26	FAA D-701	ASTM C-76, Class IV RCP	LF	490	\$ 150.00	\$ 73,500.00
1.27	FAA D-702	Trench Drain	LF	825	\$ 200.00	\$ 165,000.00
1.28	FAA D-751	3' x 3' Grate Inlet	EA	5	\$ 5,000.00	\$ 25,000.00
1.29	FAA D-752	Sloped End Treatment	EA	1	\$ 5,000.00	\$ 5,000.00
1.30	FAA T-901	Seeding	SY	2,109	\$ 0.50	\$ 1,054.50

LOCATION: McKinney National Airport

PROJECT: 8 - Construct Hangar Access Taxilane (Extension of Taxiway B2) and Hangar Taxilane

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
1.31	FAA T-904	Sodding	SY	2,380	\$ 4.00	\$ 9,520.00
1.32	FAA T-905	Topsoiling	SY	4,486	\$ 3.75	\$ 16,822.50
1.33	TxDOT 506	Stormwater Pollution Prevention Plan	LS	1	\$ 5,000.00	\$ 5,000.00
1.34	TxDOT 506	Temporary Rock Construction Exit, Type 1	EA	1	\$ 5,000.00	\$ 5,000.00
1.35		Coordination with Utility Companies	LS	1	\$ 1,000.00	\$ 1,000.00
1.36		Subsurface Utility Explorations	LS	1	\$ 7,500.00	\$ 7,500.00
Subtotal (Estimated):						\$ 2,849,984.00
20% Contingencies:						\$ 569,996.80
Total w/ Contingencies (Estimated):						\$ 3,419,980.80
Anticipated Construction Duration: 120 Calendar Days						

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$174,000.00
Survey:	\$11,200.00
Geotechnical Investigating:	\$18,600.00
Engineering Construction Administration:	\$32,000.00
Resident Project Representative:	\$70,400.00
Construction Materials Testing:	\$44,500.00
Construction Survey Verification:	\$7,500.00
Close-Out:	\$8,700.00

Subtotal:	\$366,900.00
10% Contingencies:	\$36,690.00
Total w/ Contingencies:	\$403,590.00

TOTAL: \$ 3,823,570.80

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Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 9 - Obtain Right-of-Way and Construct Vehicle Access Road
Leading to Northwest Side of Airport

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 178,700.00	\$ 178,700.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 4,000.00	\$ 4,000.00
1.03	G-202	Safety and Security	LS	1	\$ 6,000.00	\$ 6,000.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 8,000.00	\$ 8,000.00
1.05	G-205	Temporary Construction Items	LS	1	\$ 12,000.00	\$ 12,000.00
1.06	G-206	Trench Safety	LS	1	\$ 7,500.00	\$ 7,500.00
1.07	G-207	C900 PVC Water Line	LF	1,652	\$ 125.00	\$ 206,500.00
1.08	G-208	Fire Hydrant Assembly	EA	4	\$ 4,500.00	\$ 18,000.00
	G-209	Gravity Sanitary Sewer by Open Cut	LF	1,100	\$ 125.00	\$ 137,500.00
1.09	G-215	Manhole Adjustments	EA	2	\$ 5,000.00	\$ 10,000.00
1.10	FAA P-152	Unclassified Excavation	CY	6,617	\$ 10.00	\$ 66,170.00
1.11	FAA P-152	Embankment in Place	CY	1,654	\$ 20.00	\$ 33,085.00
1.12	FAA P-152	Undercut and Replace Unsuitable Subgrade	CY	662	\$ 55.00	\$ 36,410.00
1.13	FAA P-152	Subgrade Preparation/Mechanical Reworking of Existing Subgrade Material	CY	6,349	\$ 8.00	\$ 50,792.00
1.14	FAA P-155	Lime Treated Subgrade	SY	6,617	\$ 5.00	\$ 33,085.00
1.15	FAA P-155	Hydrated Lime	TON	122	\$ 175.00	\$ 21,350.00
1.16	FAA P-156	Installation and Removal of Silt Fence	LF	2,026	\$ 3.50	\$ 7,091.00
1.17	TxDOT 360	8" Concrete Pavement	SY	7,456	\$ 70.00	\$ 521,920.00
1.18	TxDOT 360	Curb and Gutter	LF	4,137	\$ 25.00	\$ 103,425.00
1.19	TxDOT 465	Curb Inlet	EA	24	\$ 5,000.00	\$ 120,000.00
1.20	TxDOT 542	Remove Metal Beam Guard Fence	LF	50	\$ 4.00	\$ 200.00
1.21	TxDOT 544	Guardrail and End Treatment	LF	50	\$ 50.00	\$ 2,500.00
1.22	FAA P-620	Pavement Marking (White)	SF	200	\$ 2.00	\$ 400.00
1.23	FAA F-161	Remove Existing Chain-Link Security Fence	LF	3,100	\$ 12.00	\$ 37,200.00
1.24	FAA F-162	7'-Tall Chain-Link Security Fence with 3-Strand Barbed Wire Top	LF	3,100	\$ 65.00	\$ 201,500.00
1.25	FAA F-162	3'-Wide Wildlife Deterrent Concrete Base	LF	3,100	\$ 25.00	\$ 77,500.00
1.26	FAA F-162	Perimeter Fence Airport Security Signage	LS	1	\$ 5,000.00	\$ 5,000.00
1.27	FAA F-162	Security Gate	EA	1	\$ 20,000.00	\$ 20,000.00
1.28	FAA D-701	ASTM C-76, Class IV RCP	LF	3,907	\$ 100.00	\$ 390,700.00
	FAA D-751	4' Diameter Pre-Cast Standard Manhole	EA	3	\$ 150.00	\$ 450.00
1.29	FAA D-752	Sloped End Treatment	EA	1	\$ 5,000.00	\$ 5,000.00
1.30	FAA T-901	Seeding	SY	3,303	\$ 0.50	\$ 1,651.50
1.31	FAA T-904	Sodding	SY	3,600	\$ 5.00	\$ 18,000.00

LOCATION: McKinney National Airport

PROJECT: 9 - Obtain Right-of-Way and Construct Vehicle Access Road
Leading to Northwest Side of Airport

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
1.32	FAA T-905	Topsoiling	SY	6,901	\$ 3.75	\$ 25,878.75
1.33	TxDOT 506	Sandbags	LF	156	\$ 4.00	\$ 624.00
1.34	TxDOT 506	Stormwater Pollution Prevention Plan	LS	1	\$ 5,000.00	\$ 5,000.00
1.35	TxDOT 506	Temporary Rock Construction Exit, Type 1	EA	1	\$ 2,000.00	\$ 2,000.00
		Remove Existing Street Sign	EA	1	\$ 200.00	\$ 200.00
		Install New Street Signs	LS	1	\$ 4,000.00	\$ 4,000.00
1.36		CCTV System, Limited Site Lines	LS	1	\$ 50,000.00	\$ 50,000.00
1.37		Coordination with Utility Companies	LS	1	\$ 5,000.00	\$ 5,000.00
1.38		Subsurface Utility Explorations	LS	1	\$ 7,500.00	\$ 7,500.00
Subtotal (Estimated):						\$ 2,441,832.25
20% Contingencies:						\$ 488,366.45
Total w/ Contingencies (Estimated):						\$ 2,930,198.70

Anticipated Construction Duration: 120 Calendar Days

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$156,000.00
Survey:	\$11,200.00
Geotechnical Investigating:	\$18,700.00
Engineering Construction Administration:	\$32,000.00
Resident Project Representative:	\$70,400.00
Construction Materials Testing:	\$44,800.00
Construction Survey Verification:	\$7,500.00
Close-Out:	\$7,800.00

Subtotal:	\$348,400.00
10% Contingencies:	\$34,840.00
Total w/ Contingencies:	\$383,240.00

TOTAL: \$ 3,313,438.70

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LOCATION: McKinney National Airport

PROJECT: 10 - Implement Infrastructure Development on East Side of Airport (Multiple Phases)

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 153,800.00	\$ 153,800.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 4,000.00	\$ 4,000.00
1.03	G-202	Safety and Security	LS	1	\$ 7,500.00	\$ 7,500.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 10,000.00	\$ 10,000.00
1.05	G-204	Pavement Marking Obliteration	SF	735	\$ 2.00	\$ 1,470.00
1.06	G-205	Temporary Construction Items	LS	1	\$ 15,000.00	\$ 15,000.00
1.07	G-206	Trench Safety	LS	1	\$ 20,000.00	\$ 20,000.00
1.08	G-215	Manhole Adjustments	EA	11	\$ 2,500.00	\$ 27,500.00
1.09		Manhole	EA	16	\$ 12,000.00	\$ 192,000.00
1.10		Gravity Sewer Main	LF	8,000	\$ 125.00	\$ 1,000,000.00
1.11		Sanitary Sewer Pavement Crossings	EA	6	\$ 10,000.00	\$ 60,000.00
1.12		PVC Water Line	LF	12,000	\$ 150.00	\$ 1,800,000.00
1.13		Fire Hydrant Assembly	EA	16	\$ 4,500.00	\$ 72,000.00
1.14		Water Line Pavement Crossing	EA	10	\$ 10,000.00	\$ 100,000.00
1.15		Miscellaneous Utility Connections	EA	4	\$ 5,000.00	\$ 20,000.00
1.16	FAA P-151	Clearing and Grubbing	ACRE	5	\$ 4,000.00	\$ 20,000.00
1.17	FAA P-156	Erosion and Sedimentation Control	LS	1	\$ 5.00	\$ 5.00
1.18	FAA D-701	ASTM C-76, Class IV RCP	LF	965	\$ 200.00	\$ 193,000.00
1.19	FAA T-901	Seeding	SY	166,667	\$ 0.50	\$ 83,333.33
1.20	FAA T-905	Topsoiling	SY	166,667	\$ 3.75	\$ 625,000.00
1.21	TxDOT 506	Stormwater Pollution Prevention Plan	LS	1	\$ 5,000.00	\$ 5,000.00
1.22	TxDOT 506	Temporary Rock Construction Exit, Type 1	EA	1	\$ 5,000.00	\$ 5,000.00
1.23		Electrical Service	LS	1	\$1,000,000.00	\$ 1,000,000.00
1.24		Coordination with Utility Companies	LS	1	\$ 1,000.00	\$ 1,000.00
1.25		Protect Existing Utilities in Place	LS	1	\$ 10,000.00	\$ 10,000.00
					Subtotal (Estimated):	\$ 5,425,608.33
					20% Contingencies:	\$ 1,085,121.67
					Total w/ Contingencies (Estimated):	\$ 6,510,730.00
Anticipated Construction Duration: 150 Calendar Days						

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$307,700.00
Survey:	\$30,000.00
Geotechnical Investigating:	\$10,000.00
Engineering Construction Administration:	\$40,000.00
Resident Project Representative:	\$88,000.00
Construction Materials Testing:	\$80,000.00
Construction Survey Verification:	\$10,000.00
Close-Out:	\$15,400.00

Subtotal:	\$581,100.00
10% Contingencies:	\$58,110.00
Total w/ Contingencies:	\$639,210.00

TOTAL: \$ 7,149,940.00



Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 10 - Implement Infrastructure Development on East Side of Airport (Multiple Phases)

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
			This document is for interim review and not for construction, bidding, or permit purposes. This document is released under the review of Steve Creamer, P.E., 90382, on 12-05-2017.			

LOCATION: McKinney National Airport

PROJECT: 1 - Construct Three T-Hangar Taxilanes (700' x 35') on Northwest Side of Airport - Phase 1

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 259,000.00	\$ 259,000.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 4,000.00	\$ 4,000.00
1.03	G-202	Safety and Security	LS	1	\$ 7,500.00	\$ 7,500.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 10,000.00	\$ 10,000.00
1.05	G-204	Temporary Construction Items	LS	1	\$ 15,000.00	\$ 15,000.00
1.06	G-205	Trench Safety	LS	1	\$ 10,000.00	\$ 10,000.00
1.07	G-206	C900 PVC Water Line	LF	3,776	\$ 55.00	\$ 207,680.00
1.08	G-207	Fire Hydrant Assembly	EA	9	\$ 4,500.00	\$ 40,500.00
1.09	G-208	SDR 26 PVC Gravity Sanitary Sewer by Open Cut	LF	1,045	\$ 125.00	\$ 130,625.00
	G-209	Drainage Improvements	LS	1	\$ 50,000.00	\$ 50,000.00
1.10	FAA P-152	Unclassified Excavation	CY	13,177	\$ 15.00	\$ 197,655.00
1.11	FAA P-152	Embankment in Place	CY	16,471	\$ 20.00	\$ 329,425.00
1.12	FAA P-152	Undercut and Replace Unsuitable Subgrade	CY	1,318	\$ 55.00	\$ 72,490.00
1.13	FAA P-152	Subgrade Preparation/Mechanical Reworking of Existing Subgrade Material	CY	13,909	\$ 8.00	\$ 111,272.00
1.14	FAA P-155	Lime Treated Subgrade	SY	13,177	\$ 6.00	\$ 79,062.00
1.15	FAA P-155	Hydrated Lime	TON	266	\$ 200.00	\$ 53,200.00
1.16	FAA P-156	Installation and Removal of Silt Fence	LF	950	\$ 5.00	\$ 4,750.00
1.17	FAA P-401	4" HMA Stabilized Base Course	TON	2,821	\$ 180.00	\$ 507,780.00
1.18	FAA P-501	8" PCC Pavement	SY	11,895	\$ 70.00	\$ 832,650.00
1.19	FAA P-602	Bituminous Prime Coat	GAL	2,508	\$ 4.00	\$ 10,032.00
1.20	FAA P-603	Bituminous Tack Coat	GAL	1,254	\$ 4.00	\$ 5,016.00
1.21	FAA P-620	Reflectorized Pavement Marking (Yellow)	SF	1,825	\$ 2.00	\$ 3,650.00
1.22	FAA P-620	Non-Reflectorized Pavement Marking (Black)	SF	3,650	\$ 2.00	\$ 7,300.00
1.23	FAA P-620	Non-Reflectorized Pavement Marking (Red)	SF	3,285	\$ 2.00	\$ 6,570.00
1.24	FAA D-701	ASTM C-76, Class IV RCP	LF	1,045	\$ 30.00	\$ 31,350.00
1.25	FAA D-702	Trench Drain	LF	850	\$ 275.00	\$ 233,750.00
1.26	FAA D-751	4' Diameter Pre-Cast Standard Manhole	EA	2	\$ 150.00	\$ 300.00
1.27	FAA D-751	3' x 3' Grate Inlet	EA	11	\$ 5,000.00	\$ 55,000.00

LOCATION: McKinney National Airport

PROJECT: 1 - Construct Three T-Hangar Taxilanes (700' x 35') on Northwest Side of Airport - Phase 1

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
1.28	FAA D-752	Sloped End Treatment	EA	1	\$ 3,000.00	\$ 3,000.00
1.29	FAA T-901	Seeding	SY	2,156	\$ 0.50	\$ 1,078.00
1.30	FAA T-904	Sodding	SY	2,470	\$ 4.00	\$ 9,880.00
1.31	FAA T-905	Topsiiling	SY	4,620	\$ 3.75	\$ 17,325.00
1.32	TxDOT 506	Stormwater Pollution Prevention Plan	LS	1	\$ 5,000.00	\$ 5,000.00
1.33	TxDOT 506	Temporary Rock Construction Exit, Type 1	EA	1	\$ 5,000.00	\$ 5,000.00
1.34		Coordination with Utility Companies	LS	1	\$ 5,000.00	\$ 5,000.00
1.35		Subsurface Utility Explorations	LS	1	\$ 8,000.00	\$ 8,000.00
1.36	16090	Remove Existing Electrical Conduits and Cables	LF	469	\$ 2.00	\$ 938.00
1.37	16090	Remove and Salvage Elevated Edge Light/Remove Base Can in Modified Pavement Areas	EA	4	\$ 500.00	\$ 2,000.00
1.38	16116	L-851 Cable and Counterpoise	LF	1,173	\$ 5.00	\$ 5,862.50
1.39	16116	Install new 2" Sched. 40 PVC Conduit	LF	469	\$ 5.00	\$ 2,345.00
1.40	16116	Concrete Encased Ductbank	LF	100	\$ 100.00	\$ 10,000.00
1.41	16530	Connect to existing fixture	EA	2	\$ 1,000.00	\$ 2,000.00
1.42	16530	Install new L-861T(L) fixture in new base can in modified pavement shoulder	EA	10	\$ 1,200.00	\$ 12,000.00
1.43	16530	Install New Direction Sign, Including Foundation	EA	3	\$ 6,000.00	\$ 18,000.00
1.44		CCTV System, Limited Site Lines	LS	1	\$ 50,000.00	\$ 50,000.00
1.45		Emergency Phone System	LS	1	\$ 50,000.00	\$ 50,000.00
1.46		Power	LS	1	\$ 25,000.00	\$ 25,000.00
1.47		Site Lighting	LS	1	\$ 25,000.00	\$ 25,000.00
Subtotal (Estimated):					\$ 3,532,985.50	
20% Contingencies:					\$ 706,597.10	
Total w/ Contingencies (Estimated):					\$ 4,239,582.60	
Anticipated Construction Duration: 150 Calendar Days						

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$207,800.00
Survey:	\$11,900.00
Geotechnical Investigating:	\$17,900.00
Engineering Construction Administration:	\$40,000.00
Resident Project Representative:	\$88,000.00
Construction Materials Testing:	\$47,600.00
Construction Survey Verification:	\$11,900.00
Close-Out:	\$10,400.00

	Subtotal:	\$435,500.00
	10% Contingencies:	\$43,550.00
	Total w/ Contingencies:	\$479,050.00
	TOTAL:	\$ 4,718,632.60



Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 1 - Construct Three T-Hangar Taxilanes (700' x 35') on Northwest Side of Airport - Phase 1

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
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Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 2 - Extend Roadway Access South of Industrial Boulevard and Construct Vehicle Parking

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 300,300.00	\$ 300,300.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 4,000.00	\$ 4,000.00
1.03	G-202	Safety and Security	LS	1	\$ 7,500.00	\$ 7,500.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 10,000.00	\$ 10,000.00
1.05	G-205	Temporary Construction Items	LS	1	\$ 15,000.00	\$ 15,000.00
1.06	G-206	Trench Safety	LS	1	\$ 600.00	\$ 600.00
1.07	FAA P-152	Unclassified Excavation	CY	34,223	\$ 15.00	\$ 513,345.00
1.08	FAA P-152	Embankment in Place	CY	8,556	\$ 20.00	\$ 171,115.00
1.09	FAA P-152	Undercut and Replace Unsuitable Subgrade	CY	3,423	\$ 55.00	\$ 188,265.00
1.10	FAA P-152	Subgrade Preparation/Mechanical Reworking of Existing Subgrade Material	CY	32,840	\$ 8.00	\$ 262,720.00
1.11	FAA P-155	Lime Treated Subgrade	SY	34,223	\$ 6.00	\$ 205,338.00
1.12	FAA P-155	Hydrated Lime	TON	628	\$ 200.00	\$ 125,600.00
1.13	FAA P-156	Installation and Removal of Silt Fence	LF	2,310	\$ 5.00	\$ 11,550.00
1.14	TxDOT 360	8" Concrete Pavement	SY	41,378	\$ 50.00	\$ 2,068,900.00
1.15	TxDOT 360	Curb and Gutter	LF	2,200	\$ 25.00	\$ 55,000.00
1.16	TxDOT 465	Curb Inlet	EA	4	\$ 5,000.00	\$ 20,000.00
1.17	FAA P-620	Pavement Marking (White)	SF	2,500	\$ 2.00	\$ 5,000.00
1.18	FAA F-161	Remove Existing Chain-Link Security Fence	LF	100	\$ 4.00	\$ 400.00
1.19	FAA F-162	Perimeter Fence Airport Security Signage	LS	1	\$ 10,000.00	\$ 10,000.00
1.20	FAA D-701	ASTM C-76, Class IV RCP	LF	2,000	\$ 30.00	\$ 60,000.00
1.21	FAA D-752	Sloped End Treatment	EA	1	\$ 5,000.00	\$ 5,000.00
1.22	FAA T-901	Seeding	SY	2,139	\$ 0.50	\$ 1,069.50
1.23	FAA T-904	Sodding	SY	2,940	\$ 4.00	\$ 11,760.00
1.24	FAA T-905	Topsoiling	SY	5,073	\$ 3.75	\$ 19,023.75
1.25	TxDOT 506	Stormwater Pollution Prevention Plan	LS	1	\$ 5,000.00	\$ 5,000.00
1.26	TxDOT 506	Temporary Rock Construction Exit, Type 1	EA	1	\$ 5,000.00	\$ 5,000.00
1.27		Coordination with Utility Companies	LS	1	\$ 1,000.00	\$ 1,000.00
1.28		Subsurface Utility Explorations	LS	1	\$ 7,500.00	\$ 7,500.00
					Subtotal (Estimated):	\$ 4,089,986.25
					20% Contingencies:	\$ 817,997.25
					Total w/ Contingencies (Estimated):	\$ 4,907,983.50

Anticipated Construction Duration: 150 Calendar Days

Summary of Engineering Design and Construction Administration Costs



Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 2 - Extend Roadway Access South of Industrial Boulevard and Construct Vehicle Parking

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
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Engineering Reporting, Design, Bidding:	\$240,500.00
Survey:	\$62,100.00
Geotechnical Investigating:	\$103,500.00
Engineering Construction Administration:	\$40,000.00
Resident Project Representative:	\$88,000.00
Construction Materials Testing:	\$248,300.00
Construction Survey Verification:	\$41,400.00
Close-Out:	\$12,100.00

Subtotal: \$835,900.00

10% Contingencies: \$83,590.00

Total w/ Contingencies: \$919,490.00

TOTAL: \$ 5,827,473.50

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LOCATION: McKinney National Airport

PROJECT: 3 - Ultimate GA Terminal Building

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 413,700.00	\$ 413,700.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 4,000.00	\$ 4,000.00
1.03	G-202	Safety and Security	LS	1	\$ 12,000.00	\$ 12,000.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 16,000.00	\$ 16,000.00
1.05	G-204	Temporary Construction Items	LS	1	\$ 24,000.00	\$ 24,000.00
1.06	G-206	New Terminal Building	SF	9,600	\$ 400.00	\$ 3,840,000.00
Subtotal (Estimated):						\$ 4,309,700.00
20% Contingencies:						\$ 861,940.00
Total w/ Contingencies (Estimated):						\$ 5,171,640.00
Anticipated Construction Duration: 240 Calendar Days						

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$248,300.00
Survey:	\$8,000.00
Geotechnical Investigating:	\$20,000.00
Engineering Construction Administration:	\$64,000.00
Resident Project Representative:	\$140,800.00
Construction Materials Testing:	\$20,000.00
Construction Survey Verification:	\$0.00
Close-Out:	\$12,500.00

Subtotal:	\$513,600.00
10% Contingencies:	\$51,360.00
Total w/ Contingencies:	\$564,960.00

TOTAL: \$ 5,736,600.00

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LOCATION: McKinney National Airport

PROJECT: 4 - Redevelop North Terminal Area

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 397,300.00	\$ 397,300.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 4,000.00	\$ 4,000.00
1.03	G-202	Safety and Security	LS	1	\$ 9,000.00	\$ 9,000.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 12,000.00	\$ 12,000.00
1.05	G-205	Temporary Construction Items	LS	1	\$ 18,000.00	\$ 18,000.00
1.06	G-212	Demolish Hangar	SF	99,420	\$ 0.75	\$ 74,565.00
1.07	G-215	Manhole Adjustments	EA	15	\$ 2,500.00	\$ 37,500.00
1.08	G-216	Building Demolition	SF	10,270	\$ 1.50	\$ 15,405.00
1.09	G-217	Miscellaneous Demolition	LS	1	\$ 150,000.00	\$ 150,000.00
1.10	FAA P-101	Crushed Aggregate Base Course Removal	SY	32,357	\$ 2.00	\$ 64,714.00
1.11	FAA P-101	PCC Removal	SY	30,816	\$ 5.00	\$ 154,080.00
1.12	FAA P-151	Clearing and Grubbing for Isolated Trees	EA	1	\$ 1,000.00	\$ 1,000.00
1.13	FAA P-152	Unclassified Excavation	CY	3,424	\$ 15.00	\$ 51,360.00
1.14	FAA P-152	Embankment in Place	CY	500	\$ 20.00	\$ 10,000.00
1.15	FAA P-152	Undercut and Replace Unsuitable Subgrade	CY	514	\$ 55.00	\$ 28,270.00
1.16	FAA P-156	Erosion and Sedimentation Control	LS	1	\$ 5,000.00	\$ 5,000.00
1.17	FAA P-155	Lime Treated Subgrade	SY	30,816	\$ 6.00	\$ 184,896.00
1.18	FAA P-155	Hydrated Lime	TON	622	\$ 200.00	\$ 124,400.00
1.19	FAA P-401	4" HMA Stabilized Base Course	TON	6,934	\$ 180.00	\$ 1,248,120.00
1.20	FAA P-501	17" PCC Pavement	SY	30,816	\$ 75.00	\$ 2,311,200.00
1.21	FAA P-602	Bituminous Prime Coat	GAL	6,164	\$ 4.00	\$ 24,656.00
1.22	FAA P-603	Bituminous Tack Coat	GAL	3,082	\$ 4.00	\$ 12,328.00
1.23	FAA D-701	ASTM C-76, Class IV RCP	LS	1	\$ 300,000.00	\$ 300,000.00
1.24	FAA D-702	Trench Drain	LF	1,290	\$ 275.00	\$ 354,750.00
1.25	FAA D-751	Remove Existing Inlets	EA	1	\$ 500.00	\$ 500.00
1.26	FAA D-751	3' x 3' Grate Inlet	EA	9	\$ 6,000.00	\$ 54,000.00
1.27	FAA D-752	Sloped End Treatment	EA	3	\$ 3,000.00	\$ 9,000.00
1.28	FAA T-901	Seeding	SY	525	\$ 0.50	\$ 262.50
1.29	FAA T-904	Sodding	SY	600	\$ 4.00	\$ 2,400.00
1.30	FAA T-905	Topsoiling	SY	1,125	\$ 3.75	\$ 4,218.75
1.31	TxDOT 506	Stormwater Pollution Prevention Plan	LS	1	\$ 5,000.00	\$ 5,000.00
1.32	TxDOT 506	Temporary Rock Construction Exit, Type 1	EA	1	\$ 5,000.00	\$ 5,000.00
1.33		Coordination with Utility Companies	LS	1	\$ 1,000.00	\$ 1,000.00
1.34		Protect Existing Utilities in Place	LS	1	\$ 10,000.00	\$ 10,000.00



Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 4 - Redevelop North Terminal Area

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Subtotal (Estimated):						\$ 5,683,925.25
20% Contingencies:						\$ 1,136,785.05
Total w/ Contingencies (Estimated):						\$ 6,820,710.30
Anticipated Construction Duration: 180 Calendar Days						

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$322,300.00
Survey:	\$15,500.00
Geotechnical Investigating:	\$46,300.00
Engineering Construction Administration:	\$48,000.00
Resident Project Representative:	\$105,600.00
Construction Materials Testing:	\$123,300.00
Construction Survey Verification:	\$15,500.00
Close-Out:	\$16,200.00

Subtotal:	\$692,700.00
10% Contingencies:	\$69,270.00
Total w/ Contingencies:	\$761,970.00

TOTAL: \$ 7,582,680.30

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LOCATION: McKinney National Airport

PROJECT: 6 - Construct Parallel Runway 18L-36R and Associated East Side Parallel Taxiway

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$6,639,200.00	\$ 6,639,200.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 4,000.00	\$ 4,000.00
1.03	G-202	Safety and Security	LS	1	\$ 18,000.00	\$ 18,000.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 24,000.00	\$ 24,000.00
1.05	G-205	Temporary Construction Items	LS	1	\$ 36,000.00	\$ 36,000.00
1.06	G-206	Trench Safety	LS	1	\$ 100,000.00	\$ 100,000.00
1.07	G-209	Drainage Improvements	LS	1	\$1,000,000.00	\$ 1,000,000.00
1.08		Memorandum of Agreement (MOA)	LS	1	\$2,000,000.00	\$ 2,000,000.00
1.09		Wetlands Permitting and Mitigation	LS	1	\$4,000,000.00	\$ 4,000,000.00
1.10	FAA P-151	Clearing and Grubbing	ACRE	110	\$ 4,000.00	\$ 440,000.00
1.11	FAA P-152	Runway and Taxiway Pavement	SF	1,928,151	\$ 38.00	\$ 73,269,738.00
1.12	FAA F-162	Chain-Link Fence	LF	12,000	\$ 90.00	\$ 1,080,000.00
1.13	TxDOT 506	Stormwater Pollution Prevention Plan/Erosion Control Items	LS	1	\$ 100,000.00	\$ 100,000.00
1.14	16090	Runway and Taxiway Lighting/Signage	LS	1	\$1,000,000.00	\$ 1,000,000.00
					Subtotal (Estimated):	\$ 89,710,938.00
					20% Contingencies:	\$ 17,942,187.60
					Total w/ Contingencies (Estimated):	\$107,653,125.60
Anticipated Construction Duration: 360 Calendar Days						

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$4,467,700.00
Survey:	\$107,200.00
Geotechnical Investigating:	\$214,300.00
Engineering Construction Administration:	\$96,000.00
Resident Project Representative:	\$211,200.00
Construction Materials Testing:	\$857,000.00
Construction Survey Verification:	\$214,300.00
Close-Out:	\$223,400.00

Subtotal: \$6,391,100.00

10% Contingencies: \$639,110.00

Total w/ Contingencies: \$7,030,210.00

TOTAL: \$114,683,335.60

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Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 7 - Implement Navigational Approach Aids on Parallel Runway System (PAPI-4s and REILs)

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 72,400.00	\$ 72,400.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 6,000.00	\$ 6,000.00
1.03	G-202	Safety and Security	LS	1	\$ 6,000.00	\$ 6,000.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 6,000.00	\$ 6,000.00
1.05	G-205	Temporary Construction Items	LS	1	\$ 12,000.00	\$ 12,000.00
1.06	16530	Implement Navigational Aids on Parallel Runway System	LS	1	\$ 372,000.00	\$ 372,000.00
1.07		Memorandum of Agreement	LS	1	\$ 250,000.00	\$ 250,000.00
					Subtotal (Estimated):	\$ 724,400.00
					25% Contingencies:	\$ 181,100.00
					Total w/ Contingencies (Estimated):	\$ 905,500.00
Anticipated Construction Duration: 120 Calendar Days						

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$50,100.00
Survey:	\$10,000.00
Geotechnical Investigating:	\$8,000.00
Engineering Construction Administration:	\$32,000.00
Resident Project Representative:	\$70,400.00
Construction Materials Testing:	\$8,000.00
Construction Survey Verification:	\$2,000.00
Close-Out:	\$2,600.00

Subtotal:	\$183,100.00
10% Contingencies:	\$18,400.00
Total w/ Contingencies:	\$201,500.00

TOTAL: \$ 1,107,000.00

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Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 8 - Construct Midfield Taxiway Network Serving Parallel Runway System

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 1,917,700.00	\$ 1,917,700.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 4,000.00	\$ 4,000.00
1.03	G-202	Safety and Security	LS	1	\$ 13,500.00	\$ 13,500.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 18,000.00	\$ 18,000.00
1.05	G-205	Temporary Construction Items	LS	1	\$ 27,000.00	\$ 27,000.00
1.06	G-206	Trench Safety	LS	1	\$ 100,000.00	\$ 100,000.00
1.07	G-209	Drainage Improvements	LS	1	\$ 350,000.00	\$ 350,000.00
1.08	FAA P-152	Taxiway Pavement	SF	603,185	\$ 38.00	\$ 22,921,030.00
1.09	TxDOT 506	Stormwater Pollution Prevention Plan/Erosion Control Items	LS	1	\$ 100,000.00	\$ 100,000.00
1.10	16090	Taxiway Lighting/Signage	LS	1	\$ 500,000.00	\$ 500,000.00
					Subtotal (Estimated):	\$ 25,951,230.00
					20% Contingencies:	\$ 5,190,246.00
					Total w/ Contingencies (Estimated):	\$ 31,141,476.00
Anticipated Construction Duration: 270 Calendar Days						

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$1,323,600.00
Survey:	\$33,600.00
Geotechnical Investigating:	\$83,800.00
Engineering Construction Administration:	\$72,000.00
Resident Project Representative:	\$158,400.00
Construction Materials Testing:	\$201,100.00
Construction Survey Verification:	\$67,100.00
Close-Out:	\$66,200.00

Subtotal:	\$2,005,800.00
10% Contingencies:	\$200,580.00
Total w/ Contingencies:	\$2,206,380.00

TOTAL: \$ 33,347,856.00

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Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 9 - Construct Three T-Hangar Taxilanes (700' x 35') on Northwest Side of Airport - Phase 2

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 233,700.00	\$ 233,700.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 4,000.00	\$ 4,000.00
1.03	G-202	Safety and Security	LS	1	\$ 7,500.00	\$ 7,500.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 10,000.00	\$ 10,000.00
1.05	G-204	Temporary Construction Items	LS	1	\$ 15,000.00	\$ 15,000.00
1.06	G-205	Trench Safety	LS	1	\$ 10,000.00	\$ 10,000.00
1.07	G-206	C900 PVC Water Line	LF	500	\$ 55.00	\$ 27,500.00
1.08	G-207	Fire Hydrant Assembly	EA	3	\$ 4,500.00	\$ 13,500.00
1.09	G-208	SDR 26 PVC Gravity Sanitary Sewer by Open Cut	LF	200	\$ 125.00	\$ 25,000.00
	G-209	Drainage Improvements	LS	1	\$ 50,000.00	\$ 50,000.00
1.10	FAA P-152	Unclassified Excavation	CY	13,177	\$ 15.00	\$ 197,655.00
1.11	FAA P-152	Embankment in Place	CY	16,471	\$ 20.00	\$ 329,425.00
1.12	FAA P-152	Undercut and Replace Unsuitable Subgrade	CY	1,318	\$ 55.00	\$ 72,490.00
1.13	FAA P-152	Subgrade Preparation/Mechanical Reworking of Existing Subgrade Material	CY	13,909	\$ 8.00	\$ 111,272.00
1.14	FAA P-155	Lime Treated Subgrade	SY	13,177	\$ 6.00	\$ 79,062.00
1.15	FAA P-155	Hydrated Lime	TON	266	\$ 200.00	\$ 53,200.00
1.16	FAA P-156	Installation and Removal of Silt Fence	LF	950	\$ 5.00	\$ 4,750.00
1.17	FAA P-401	4" HMA Stabilized Base Course	TON	2,821	\$ 180.00	\$ 507,780.00
1.18	FAA P-501	8" PCC Pavement	SY	11,895	\$ 70.00	\$ 832,650.00
1.19	FAA P-602	Bituminous Prime Coat	GAL	2,508	\$ 4.00	\$ 10,032.00
1.20	FAA P-603	Bituminous Tack Coat	GAL	1,254	\$ 4.00	\$ 5,016.00
1.21	FAA P-620	Reflectorized Pavement Marking (Yellow)	SF	1,825	\$ 2.00	\$ 3,650.00
1.22	FAA P-620	Non-Reflectorized Pavement Marking (Black)	SF	3,650	\$ 2.00	\$ 7,300.00
1.23	FAA P-620	Non-Reflectorized Pavement Marking (Red)	SF	3,285	\$ 2.00	\$ 6,570.00
1.24	FAA D-701	ASTM C-76, Class IV RCP	LF	1,045	\$ 30.00	\$ 31,350.00
1.25	FAA D-702	Trench Drain	LF	850	\$ 275.00	\$ 233,750.00
1.26	FAA D-751	4' Diameter Pre-Cast Standard Manhole	EA	2	\$ 150.00	\$ 300.00
1.27	FAA D-751	3' x 3' Grate Inlet	EA	11	\$ 5,000.00	\$ 55,000.00

LOCATION: McKinney National Airport

PROJECT: 9 - Construct Three T-Hangar Taxilanes (700' x 35') on Northwest Side of Airport - Phase 2

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
1.28	FAA T-901	Seeding	SY	2,156	\$ 0.50	\$ 1,078.00
1.29	FAA T-904	Sodding	SY	2,470	\$ 4.00	\$ 9,880.00
1.30	FAA T-905	Topsolling	SY	4,620	\$ 3.75	\$ 17,325.00
1.31	TxDOT 506	Stormwater Pollution Prevention Plan	LS	1	\$ 5,000.00	\$ 5,000.00
1.32	TxDOT 506	Temporary Rock Construction Exit, Type 1	EA	1	\$ 5,000.00	\$ 5,000.00
1.33		Coordination with Utility Companies	LS	1	\$ 5,000.00	\$ 5,000.00
1.34		Subsurface Utility Explorations	LS	1	\$ 8,000.00	\$ 8,000.00
1.35	16090	Remove Existing Electrical Conduits and Cables	LF	469	\$ 2.00	\$ 938.00
1.36	16090	Remove and Salvage Elevated Edge Light/Remove Base Can in Modified Pavement Areas	EA	4	\$ 500.00	\$ 2,000.00
1.37	16116	L-851 Cable and Counterpoise	LF	1,173	\$ 5.00	\$ 5,862.50
1.38	16116	Install new 2" Sched. 40 PVC Conduit	LF	469	\$ 5.00	\$ 2,345.00
1.39	16116	Concrete Encased Ductbank	LF	100	\$ 100.00	\$ 10,000.00
1.40	16530	Connect to existing fixture	EA	2	\$ 1,000.00	\$ 2,000.00
1.41	16530	Install new L-861T(L) fixture in new base can in modified pavement shoulder	EA	10	\$ 1,200.00	\$ 12,000.00
1.42	16530	Install New Direction Sign, Including Foundation	EA	3	\$ 6,000.00	\$ 18,000.00
1.43		CCTV System, Limited Site Lines	LS	1	\$ 50,000.00	\$ 50,000.00
1.44		Emergency Phone System	LS	1	\$ 50,000.00	\$ 50,000.00
1.45		Power	LS	1	\$ 25,000.00	\$ 25,000.00
1.46		Site Lighting	LS	1	\$ 25,000.00	\$ 25,000.00
Subtotal (Estimated):						\$ 3,191,880.50
20% Contingencies:						\$ 638,376.10
Total w/ Contingencies (Estimated):						\$ 3,830,256.60

Anticipated Construction Duration: 150 Calendar Days

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$194,400.00
Survey:	\$11,900.00
Geotechnical Investigating:	\$17,900.00
Engineering Construction Administration:	\$40,000.00
Resident Project Representative:	\$88,000.00
Construction Materials Testing:	\$47,600.00
Construction Survey Verification:	\$11,900.00
Close-Out:	\$9,800.00

Subtotal: \$421,500.00

10% Contingencies: \$42,150.00

Total w/ Contingencies: \$463,650.00

TOTAL: \$ 4,293,906.60



Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 9 - Construct Three T-Hangar Taxilanes (700' x 35') on Northwest Side of Airport - Phase 2

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
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LOCATION: McKinney National Airport

PROJECT: 10 - Construct Vehicle Access Road Serving East Side of Airport (26' wide)

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 549,600.00	\$ 549,600.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 4,000.00	\$ 4,000.00
1.03	G-202	Safety and Security	LS	1	\$ 13,500.00	\$ 13,500.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 18,000.00	\$ 18,000.00
1.05	G-205	Temporary Construction Items	LS	1	\$ 27,000.00	\$ 27,000.00
1.06	G-206	Trench Safety	LS	1	\$ 7,500.00	\$ 7,500.00
1.07	FAA P-151	Clearing and Grubbing	ACRE	2	\$ 4,000.00	\$ 8,000.00
1.08	FAA P-156	Installation and Removal of Silt Fence	LF	15,000	\$ 3.50	\$ 52,500.00
1.09	TxDOT 360	26'-Wide 2-Lane Access Road with Curb and Gutter	SF	190,000	\$ 35.00	\$ 6,650,000.00
1.10	FAA D-701	ASTM C-76, Class IV Box Culvert	LF	200	\$ 250.00	\$ 50,000.00
1.11	FAA T-901	Seeding	SY	80,000	\$ 0.50	\$ 40,000.00
1.12	TxDOT 506	Stormwater Pollution Prevention Plan/Erosion Control Measures	LS	1	\$ 50,000.00	\$ 50,000.00
1.13		Coordination with Utility Companies	LS	1	\$ 5,000.00	\$ 5,000.00
1.14		Subsurface Utility Explorations	LS	1	\$ 7,500.00	\$ 7,500.00
					Subtotal (Estimated):	\$ 7,482,600.00
					20% Contingencies:	\$ 1,496,520.00
					Total w/ Contingencies (Estimated):	\$ 8,979,120.00
Anticipated Construction Duration: 270 Calendar Days						

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$416,000.00
Survey:	\$31,700.00
Geotechnical Investigating:	\$52,800.00
Engineering Construction Administration:	\$72,000.00
Resident Project Representative:	\$158,400.00
Construction Materials Testing:	\$126,700.00
Construction Survey Verification:	\$21,200.00
Close-Out:	\$20,800.00
Subtotal:	\$899,600.00
10% Contingencies:	\$89,960.00
Total w/ Contingencies:	\$989,560.00

TOTAL: \$ 9,968,680.00

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Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 11 - Construct Commercial Passenger Service Complex and Aircraft Parking Apron on East Side of Airport

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 8,560,000.00	\$ 8,560,000.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 4,000.00	\$ 4,000.00
1.03	G-202	Safety and Security	LS	1	\$ 36,000.00	\$ 36,000.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 48,000.00	\$ 48,000.00
1.05	G-205	Temporary Construction Items	LS	1	\$ 72,000.00	\$ 72,000.00
1.06	G-206	Four Gate Commerical Service Terminal	LS	1	\$ 65,000,000.00	\$ 65,000,000.00
1.07	G-209	Drainage Improvements	LS	1	\$ 1,000,000.00	\$ 1,000,000.00
1.08	FAA P-152	Commercial Service Terminal Apron Pavement	SF	1,100,000	\$ 35.00	\$ 38,500,000.00
1.09	TxDOT 506	Stormwater Pollution Prevention Plan/Erosion Control Items	LS	1	\$ 500,000.00	\$ 500,000.00
1.10	16090	Miscellaneous Site Improvements	LS	1	\$ 2,000,000.00	\$ 2,000,000.00
					Subtotal (Estimated):	\$ 115,720,000.00
					20% Contingencies:	\$ 23,144,000.00
					Total w/ Contingencies (Estimated):	\$ 138,864,000.00
Anticipated Construction Duration: 720 Calendar Days						

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$5,762,900.00
Survey:	\$30,600.00
Geotechnical Investigating:	\$122,300.00
Engineering Construction Administration:	\$192,000.00
Resident Project Representative:	\$422,400.00
Construction Materials Testing:	\$244,500.00
Construction Survey Verification:	\$61,200.00
Close-Out:	\$288,200.00

Subtotal:	\$7,124,100.00
10% Contingencies:	\$712,410.00
Total w/ Contingencies:	\$7,836,510.00

TOTAL: \$ 146,700,510.00

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Engineer's Opinion of Probable Costs (EOPC)



LOCATION: McKinney National Airport

PROJECT: 12 - Construct Vehicle Access and Parking Serving Commercial Passenger Terminal Complex

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 2,165,800.00	\$ 2,165,800.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 18,000.00	\$ 18,000.00
1.03	G-202	Safety and Security	LS	1	\$ 18,000.00	\$ 18,000.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 24,000.00	\$ 24,000.00
1.05	G-205	Temporary Construction Items	LS	1	\$ 36,000.00	\$ 36,000.00
1.06	G-206	Trench Safety	LS	1	\$ 7,500.00	\$ 7,500.00
1.07	FAA P-151	Clearing and Grubbing	ACRE	4	\$ 4,000.00	\$ 16,000.00
1.08	FAA P-156	Installation and Removal of Silt Fence	LF	15,000	\$ 3.50	\$ 52,500.00
1.09	TxDOT 360	52'-Wide 4-Lane Access Road with Curb and Gutter	SF	104,000	\$ 35.00	\$ 3,640,000.00
1.10	TxDOT 360	Surface Parking	SF	725,580	\$ 32.00	\$ 23,218,560.00
1.11	FAA D-701	ASTM C-76, Class IV Box Culvert	LF	200	\$ 250.00	\$ 50,000.00
1.12	FAA T-901	Seeding	SY	52,000	\$ 0.50	\$ 26,000.00
1.13	TxDOT 506	Stormwater Pollution Prevention Plan/Erosion Control Measures	LS	1	\$ 50,000.00	\$ 50,000.00
1.14		Coordination with Utility Companies	LS	1	\$ 5,000.00	\$ 5,000.00
1.15		Subsurface Utility Explorations	LS	1	\$ 7,500.00	\$ 7,500.00
Subtotal (Estimated):						\$ 29,334,860.00
20% Contingencies:						\$ 5,866,972.00
Total w/ Contingencies (Estimated):						\$ 35,201,832.00

Anticipated Construction Duration: 360 Calendar Days

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$1,497,000.00
Survey:	\$40,400.00
Geotechnical Investigating:	\$121,000.00
Engineering Construction Administration:	\$96,000.00
Resident Project Representative:	\$211,200.00
Construction Materials Testing:	\$322,500.00
Construction Survey Verification:	\$40,400.00
Close-Out:	\$74,900.00

Subtotal:	\$2,403,400.00
10% Contingencies:	\$240,340.00
Total w/ Contingencies:	\$2,643,740.00

TOTAL: \$ 37,845,572.00

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LOCATION: McKinney National Airport

PROJECT: 13 - Construct Fuel Farm on East Side of Airport (Jet A - 30,000 Gallons/100LL - 12,000 Gallons)

RS&H Project No.: 2270044000

Date: 12-05-2017

Item No.	Spec. Ref. No.	Item Description	Unit of Measure	Estimated Quantities	Estimated Unit Price	Estimated Totals
Summary of Probable Construction Costs						
1.01	G-200	Mobilization	LS	1	\$ 206,300.00	\$ 206,300.00
1.02	G-201	Engineer's Field Office	LS	1	\$ 7,500.00	\$ 7,500.00
1.03	G-202	Safety and Security	LS	1	\$ 7,500.00	\$ 7,500.00
1.04	G-203	Project Survey and Stakeout	LS	1	\$ 10,000.00	\$ 10,000.00
1.05	G-205	Temporary Construction Items	LS	1	\$ 15,000.00	\$ 15,000.00
1.06	G-206	Trench Safety	LS	1	\$ 7,500.00	\$ 7,500.00
1.07		12,500 Gallon Tank	EA	2	\$ 200,000.00	\$ 400,000.00
1.08		30,000 Gallon Tank	EA	4	\$ 250,000.00	\$ 1,000,000.00
1.09	FAA P-151	Clearing and Grubbing	ACRE	2	\$ 4,000.00	\$ 8,000.00
1.10	FAA P-156	Installation and Removal of Silt Fence	LF	2,000	\$ 3.50	\$ 7,000.00
1.11	TxDOT 360	26'-Wide Access Road with Curb and Gutter	SF	20,000	\$ 35.00	\$ 700,000.00
1.12	TxDOT 360	Tank Pavement Surface	SF	10,000	\$ 32.00	\$ 320,000.00
1.13		Tank Foundation	EA	6	\$ 15,000.00	\$ 90,000.00
1.14	FAA D-701	Drainage Improvements	LS	1	\$ 20,000.00	\$ 20,000.00
1.15	FAA T-901	Seeding	SY	7,500	\$ 0.50	\$ 3,750.00
1.16	TxDOT 506	Stormwater Pollution Prevention Plan/Erosion Control Measures	LS	1	\$ 10,000.00	\$ 10,000.00
1.17		Coordination with Utility Companies	LS	1	\$ 5,000.00	\$ 5,000.00
1.18		Subsurface Utility Explorations	LS	1	\$ 7,500.00	\$ 7,500.00
					Subtotal (Estimated):	\$ 2,825,050.00
					20% Contingencies:	\$ 565,010.00
					Total w/ Contingencies (Estimated):	\$ 3,390,060.00
Anticipated Construction Duration: 150 Calendar Days						

Summary of Engineering Design and Construction Administration Costs

Engineering Reporting, Design, Bidding:	\$173,000.00
Survey:	\$5,000.00
Geotechnical Investigating:	\$8,400.00
Engineering Construction Administration:	\$40,000.00
Resident Project Representative:	\$88,000.00
Construction Materials Testing:	\$13,400.00
Construction Survey Verification:	\$5,000.00
Close-Out:	\$8,700.00

Subtotal:	\$341,500.00
10% Contingencies:	\$34,150.00
Total w/ Contingencies:	\$375,650.00

TOTAL: \$ 3,765,710.00

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