



Project Closeout Book

FBO/Terminal Apron Rehabilitation

October 2023

FAA AIP Project Number:

3-12-004-024-2022

FDOT Project Number:

448711-1-94-01

Prepared by: Kimley-Horn

Kimley»Horn



Project Closeout Book
for
FBO/Terminal Apron Rehabilitation

October 2023

FAA AIP Project Number:
3-12-004-024-2022

FDOT Project Number:
448711-1-94-01

Prepared for:

City of Avon Park

110 E. Main St
Avon Park, FL 33825
(963) 452-4400

Prepared by:

Kimley-Horn and Associates, Inc.

201 North Franklin Street, Suite 1400
Tampa, FL 33602
(813) 620 - 1460

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Section 1

Final Inspection / Substantial Completion

1.1 Letter of Substantial Completion



July 5th, 2023

Melody Sauerhafer – Finance Director
City of Avon Park
110 East Main Street
Avon Park, Florida 33825

Re: Avon Park Executive Airport (AVO) – FBO/Terminal Apron Rehabilitation
Substantial Completion

Dear Ms. Sauerhafer,

On Friday, June 30th, 2023, a walkthrough of the AVO FBO/Terminal Apron Rehabilitation project site was conducted at the request of Ajax Paving Industries of Florida (Prime Contractor) to evaluate substantial completion of the Contract. In attendance included Jared Moreng from Kimley-Horn (EOR), Curt Selbak (Ajax), Dawn Gallon (FDOT), Jonathan Clark (Florida Airport Management), Charlie Brown (Florida Airport Management), Adam Lewis (Florida Airport Management), and yourself.

Based on the observations of the walkthrough, Kimley-Horn believes that the Contract has been substantially completed in accordance with the Contract Documents. The following items were observed as tasks still needing to be completed for full-completion of the project and represent the final "punch-list":

- 1) Remove any remaining survey posts/lathing/flagging
- 2) Remove job board/labor posters from site
- 3) Remove meter from fire hydrant on west apron
- 4) Complete final tie down markings on apron and re-marking of Taxiway F non-movement area hold position marking
- 5) Touch-up areas of seal coat (P-608) that were missed along trench drain and on FBO apron
- 6) Remove seal coat overspray areas from the trench drain on FBO apron
- 7) Clean silt out of trench-drain at terminal

The above items should be verified to be completed by the RPR and the City prior to authorizing payment of retainage held per the Contract.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.

A handwritten signature in blue ink, appearing to read "J. Moreng".

Jared Moreng, P.E.
Project Manager

970-270-6405 (cell)

1.2 Final Acceptance Letter



September 29th, 2023

Melody Sauerhafer, Finance Director – City of Avon Park
110 E. Main St.
Avon Park, FL 33825

Subject: *FBO/Terminal Apron Rehabilitation (AIP 3-12-0004-024-2022)*
 Avon Park Executive Airport (AVO)
 FAA Final Acceptance Requirements

Dear Ms. Sauerhafer,

We have completed the Closeout Book for the referenced construction project. In accordance with the requirements of the FAA, we offer the following statements:

1. The personnel engaged in project administration, engineering supervision, and construction inspection and testing were determined to be qualified and competent to perform the work.
2. Daily construction records were kept by the Resident Project Representative. These records document work in progress, quality and quantity of materials delivered, test locations and results, instructions provided the contractor, weather, equipment use, labor requirements, safety problems, and changes required.
3. Payroll records and statements of compliance were submitted by the prime contractor and reviewed for Federal labor and civil rights requirements.
4. No complaints regarding the mandated Federal provisions set forth in the contract were received.
5. All tests specified in the plans and specifications were performed and the test results documented. A summary of test results is included.
6. For any results outside allowable tolerances, appropriate corrective actions were taken.
7. Payments to the contractor were made in compliance with contract provisions and are verified by records kept by the Resident Project Representative.
8. The project was accomplished without significant deviations, changes, or modifications from the approved plans and specifications, except where approval was obtained from FAA.



9. Work in the Grant Agreement was physically completed and corrective actions required as a result of the final inspection were completed to the satisfaction of the engineer.
10. Applicable closeout financial information is included.

The foregoing statements are true and complete to the best of our knowledge and belief.

Regards,

KIMLEY-HORN AND ASSOCIATES, INC.

201 North Franklin Street, Suite 1400

Tampa, FL 33602

Phone: (813) 635-5504

A handwritten signature in blue ink, appearing to read "J. C. Moreng".

Jared Moreng, P.E.
Engineer or Record
Florida License No. 81611

Section 2

Construction Quantities and Costs

2.1 Summary of Construction Costs and Final Construction Quantities

**CITY OF AVON PARK
AVON PARK EXECUTIVE AIRPORT
FBO/TERMINAL APRON REHABILITATION
SUMMARY OF FINAL CONSTRUCTION QUANTITIES AND COSTS
10/2/2023**



BASE BID - PHASE 1A, 1B, & 1C

ITEM NUMBER	DESCRIPTION	UNIT	Awarded Quantities and Prices			Final Quantities and Prices			% of Contract Quantity
			QUANTITY	UNIT PRICE	TOTAL	QUANTITY	UNIT PRICE	TOTAL	
C-105-1	MOBILIZATION (UP TO 10%)	LS	1	\$ 170,000.00	\$ 170,000.00	1	\$ 170,000.00	\$ 170,000.00	100%
C-102-1	TEMPORARY AIR AND WATER POLLUTION, SOIL EROSION, AND SILTATION CONTROL	LS	1	\$ 33,000.00	\$ 33,000.00	1	\$ 33,000.00	\$ 33,000.00	100%
M-102-1	MAINTENANCE OF TRAFFIC AND TEMPORARY CONSTRUCTION ITEMS	LS	1	\$ 74,500.00	\$ 74,500.00	1	\$ 74,500.00	\$ 74,500.00	100%
M-103-1	PROJECT SURVEY AND STAKEOUT	LS	1	\$ 32,000.00	\$ 32,000.00	1	\$ 32,000.00	\$ 32,000.00	100%
M-104-1	SAFETY AND SECURITY	LS	1	\$ 90,000.00	\$ 90,000.00	1	\$ 90,000.00	\$ 90,000.00	100%
P-101-1	FULL DEPTH ASPHALT PAVEMENT REMOVAL	SY	8,200	\$ 6.00	\$ 49,200.00	7,849	\$ 6.00	\$ 47,095.08	96%
P-101-2	FULL DEPTH CONCRETE PAVEMENT REMOVAL	SY	1,100	\$ 39.00	\$ 42,900.00	1,100	\$ 39.00	\$ 42,900.00	100%
P-101-4	RPR DIRECTED CRACK REPAIR	LF	500	\$ 2.00	\$ 1,000.00	-	\$ 2.00	\$ -	0%
P-151-1	CLEARING AND GRUBBING	SY	3,600	\$ 5.00	\$ 18,000.00	3,600	\$ 5.00	\$ 18,000.00	100%
P-152-1	UNCLASSIFIED EXCAVATION	CY	450	\$ 41.00	\$ 18,450.00	450	\$ 41.00	\$ 18,450.00	100%
P-152-2	OFFSITE BORROW	CY	450	\$ 31.00	\$ 13,950.00	-	\$ 31.00	\$ -	0%
P-211-1	LIME ROCK BASE COURSE, 9-INCHES THICK	SY	9,300	\$ 59.00	\$ 548,700.00	8,837	\$ 59.00	\$ 521,375.92	95%
P-211-2	SEPARATION GEOTEXTILE	SY	9,300	\$ 6.00	\$ 55,800.00	8,837	\$ 6.00	\$ 53,021.28	95%
P-401-1	HOT MIXED ASPHALT PAVEMENT, SURFACE COURSE	TON	2,250	\$ 224.00	\$ 504,000.00	2,218	\$ 224.00	\$ 496,939.52	99%
P-602-1	EMULSIFIED ASPHALT PRIME COAT	GAL	2,800	\$ 3.00	\$ 8,400.00	-	\$ 3.00	\$ -	0%
P-603-1	EMULSIFIED ASPHALT TACK COAT	GAL	750	\$ 3.00	\$ 2,250.00	1,428	\$ 3.00	\$ 4,284.00	190%
P-610-1	CONCRETE DUMPSTER PAD	LS	1	\$ 5,500.00	\$ 5,500.00	1	\$ 5,500.00	\$ 5,500.00	100%
P-620-1	PERMANENT AIRFIELD MARKINGS WITH TYPE III GLASS BEADS (YELLOW)	SF	225	\$ 17.00	\$ 3,825.00	-	\$ 17.00	\$ -	0%
T-904-1	SODDING & TOPSOILING	SY	3,600	\$ 9.00	\$ 32,400.00	3,600	\$ 9.00	\$ 32,400.00	100%
L-100-1	UNDERGROUND UTILITY LOCATES	LS	1	\$ 6,300.00	\$ 6,300.00	1	\$ 6,300.00	\$ 6,300.00	100%
L-100-2	GENERAL ELECTRICAL DEMOLITION	LS	1	\$ 25,100.00	\$ 25,100.00	1	\$ 25,100.00	\$ 25,100.00	100%
L-100-3	RE-ESTABLISH ELECTRICAL SERVICE TO EXISTING T-HANGARS	LS	1	\$ 43,900.00	\$ 43,900.00	1	\$ 43,900.00	\$ 43,900.00	100%
BID ADD ALTERNATE 1 - PHASE 2 & 3									
C-105-1	MOBILIZATION (UP TO 10%)	LS	1	\$ 63,100.00	\$ 63,100.00	1	\$ 63,100.00	\$ 63,100.00	100%
C-102-1	TEMPORARY AIR AND WATER POLLUTION, SOIL EROSION, AND SILTATION CONTROL	LS	1	\$ 2,500.00	\$ 2,500.00	1	\$ 2,500.00	\$ 2,500.00	100%
M-102-1	MAINTENANCE OF TRAFFIC AND TEMPORARY CONSTRUCTION ITEMS	LS	1	\$ 16,000.00	\$ 16,000.00	1	\$ 16,000.00	\$ 16,000.00	100%
M-103-1	PROJECT SURVEY AND STAKEOUT	LS	1	\$ 7,500.00	\$ 7,500.00	1	\$ 7,500.00	\$ 7,500.00	100%
M-104-1	SAFETY AND SECURITY	LS	1	\$ 60,900.00	\$ 60,900.00	1	\$ 60,900.00	\$ 60,900.00	100%
P-101-1	FULL DEPTH ASPHALT PAVEMENT REMOVAL	SY	1,700	\$ 8.00	\$ 13,600.00	1,493	\$ 8.00	\$ 11,946.64	88%
P-101-2	FULL DEPTH CONCRETE PAVEMENT REMOVAL	SY	1,250	\$ 40.00	\$ 50,000.00	1,111	\$ 40.00	\$ 44,444.40	89%
P-101-3	SALVAGE AND REINSTALL CONCRETE BOLLARD	EA	4	\$ 781.00	\$ 3,124.00	4	\$ 781.00	\$ 3,124.00	100%
P-101-4	RPR DIRECTED CRACK REPAIR	LF	500	\$ 2.00	\$ 1,000.00	-	\$ 2.00	\$ -	0%
P-151-1	CLEARING AND GRUBBING	SY	600	\$ 12.00	\$ 7,200.00	600	\$ 12.00	\$ 7,200.00	100%
P-152-1	UNCLASSIFIED EXCAVATION	CY	55	\$ 26.00	\$ 1,430.00	55	\$ 26.00	\$ 1,430.00	100%
P-152-2	OFFSITE BORROW	CY	150	\$ 31.00	\$ 4,650.00	-	\$ 31.00	\$ -	0%
P-211-1	LIME ROCK BASE COURSE, 9-INCHES THICK	SY	2,900	\$ 59.00	\$ 171,100.00	2,809	\$ 59.00	\$ 165,724.51	97%
P-211-2	SEPARATION GEOTEXTILE	SY	2,900	\$ 2.00	\$ 5,800.00	2,809	\$ 2.00	\$ 5,617.78	97%
P-401-1	HOT MIXED ASPHALT PAVEMENT, SURFACE COURSE	TON	700	\$ 233.00	\$ 163,100.00	680	\$ 233.00	\$ 158,460.97	97%
P-602-1	EMULSIFIED ASPHALT PRIME COAT	GAL	900	\$ 3.00	\$ 2,700.00	-	\$ 3.00	\$ -	0%
P-603-1	EMULSIFIED ASPHALT TACK COAT	GAL	250	\$ 3.00	\$ 750.00	258	\$ 3.00	\$ 774.00	103%
P-608-1	EMULSIFIED ASPHALT SURFACE REJUVENATOR	SY	4,850	\$ 10.00	\$ 48,500.00	4,850	\$ 10.00	\$ 48,500.00	100%
P-620-1	PERMANENT AIRFIELD MARKINGS WITH TYPE III GLASS BEADS (YELLOW)	SF	275	\$ 8.00	\$ 2,200.00	277	\$ 8.00	\$ 2,212.00	101%
P-620-2	PERMANENT AIRFIELD MARKINGS WITH NO GLASS BEADS (BLACK)	SF	550	\$ 3.00	\$ 1,650.00	1,010	\$ 3.00	\$ 3,030.00	184%
P-620-3	AIRFIELD MARKINGS REMOVAL	SF	825	\$ 6.00	\$ 4,950.00	805	\$ 6.00	\$ 4,830.00	98%
T-904-1	SODDING & TOPSOILING	SY	500	\$ 10.00	\$ 5,000.00	500	\$ 10.00	\$ 5,000.00	100%
Subtotal of Construction Costs					\$ 2,415,929.00				96.3%
Base Bid					\$ 1,779,175.00				96.4%
Bid Add Alternate					\$ 636,754.00				96.2%
Change Order 1					-				\$ 686.32
Total Contract Cost					\$ 2,415,929.00				\$ 2,327,746.42 96.3%

2.2 Final Application for Payment

APPLICATION AND CERTIFICATE FOR PAYMENT

Invoice #: 406122-RT

To Owner:	City of Avon Park 110 East Main Street	Project:	406122- FBO/TERMINAL APRON REHABILITATION - City Of Avon Park	Application No.	6	Distribution to	☐ Owner ☐ Architect ☐ Contractor
From Contractor:	Avon Park, FL 33825 Ajax Paving Industries of Florida, Via One Ajax Drive North Venice, FL 34275	Architect:		Bill Number:	42 8/2023	Period:	09/01/23 to 09/01/23
Contract For:				Project Nos:		Contract Date:	

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.
Continuation Sheet is attached.

1. Original Contract Sum	\$2,415,929.00
2. Net Change By Change Order	\$686.32
3. Contract Sum To Date	\$2,416,615.32
4. Total Completed and Stored To Date	\$2,327,746.42
5. Retainage : a. 0.00% of Completed Work \$0.00 b. 0.00% of Stored Material \$0.00	
Total Retainage	\$0.00
6. Total Earned Less Retainage	\$2,327,746.42
7. Less Previous Certificates For Payments	\$2,094,971.77
8. Current Payment Due	\$232,774.65
Sales Tax (0.0000 % on 0.00)	0.00
Current Payment Due Plus Sales Tax	232,774.65
9. Balance To Finish, Plus Retainage	\$88,868.90

CHANGE ORDER SUMMARY	Additions	Deductions
Total changes approved in previous months by Owner	\$686.32	\$0.00
Total Approved this Month	\$0.00	\$0.00
TOTALS	\$686.32	\$0.00
Net Changes By Change Order	\$686.32	

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information, and belief, the work covered by this Application for Payment has been completed in accordance with the Contract Documents. That all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: Ajax Paving Industries of Florida, LLC

Sharon C Digitally signed by
Sharon C Radford

By: Radford Date: 2023.09.05 Date: 07:31:02 -04'00'

State of: County of:
Subscribed and sworn to before me this day of
Notary Public:
My Commission expires:

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the above application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information, and belief, the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor

AMOUNT CERTIFIED \$232,774.65

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)

ARCHITECT:

By: [Signature] Date: 9/13/23

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment, and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

Progress Bill

From: Ajax Paving Industries of Florida, LLC One Ajax Drive North Venice, FL 34275		Invoice: 406122-RT Bill Number: 42 8/2023 Date: 09/01/23 Application #: 6	
To: City of Avon Park 110 East Main Street Avon Park, FL 33825		Invoice Due Date: 09/11/23 Payment Terms: Net 10 Days	

Item	Description	SI Code	Contract Amount	Contract Quantity	U/M	Quantity JTD	Unit Price	Materials On-Site	Total Completed And Stored		Amount Previous	Quantity This Period	Amount This Period
									To Date	%			
0	Estimate-Level Costs	0	0.00	1,000	LSU	0.000	0.00000	0.00	0.00	0.00%	0.00	0.000	0.00
01	MOBILIZATION	C-105-1	170,000.00	1,000	LSU	1,000	170,000.00000	0.00	170,000.00	100.00%	170,000.00	0.000	0.00
02	TEMPORARY AIR AND WATER POLLUTION, SOIL EROSION, AND SILTATI	C-102-1	33,000.00	1,000	LSU	1,000	33,000.00000	0.00	33,000.00	100.00%	33,000.00	0.000	0.00
03	MAINTENANCE OF TRAFFIC AND TEMPORARY CONSTRUCTION ITEMS	M-102-1	74,500.00	1,000	LSU	1,000	74,500.00000	0.00	74,500.00	100.00%	74,500.00	0.000	0.00
04	PROJECT SURVEY AND STAKEOUT	M-103-1	32,000.00	1,000	LSU	1,000	32,000.00000	0.00	32,000.00	100.00%	32,000.00	0.000	0.00
05	SAFETY AND SECURITY	M-104-1	90,000.00	1,000	LSU	1,000	90,000.00000	0.00	90,000.00	100.00%	90,000.00	0.000	0.00
06	FULL DEPTH ASPHALT PAVEMENT REMOVAL	P-101-1	49,200.00	8,200.000	SY	7,848.180	6.00000	0.00	47,095.08	95.72%	47,095.08	0.000	0.00
07	FULL DEPTH CONCRETE PAVEMENT REMOVAL	P-101-2	42,900.00	1,100.000	SY	1,100.000	39.00000	0.00	42,900.00	100.00%	42,900.00	0.000	0.00
08	RPR DIRECTED CRACK REPAIR	P-101-4	1,000.00	500.000	LF	0.000	2.00000	0.00	0.00	0.00%	0.00	0.000	0.00
09	CLEARING AND GRUBBING	P-151-1	18,000.00	3,600.000	SY	3,600.000	5.00000	0.00	18,000.00	100.00%	18,000.00	0.000	0.00
10	UNCLASSIFIED EXCAVATION	P-152-1	18,450.00	450.000	CY	450.000	41.00000	0.00	18,450.00	100.00%	18,450.00	0.000	0.00
11	OFFSITE BORROW	P-152-2	13,950.00	450.000	CY	0.000	31.00000	0.00	0.00	0.00%	0.00	0.000	0.00

Progress Bill

Invoice: 406122-RT
 Bill Number: 42 8/2023
 Date: 09/01/23
 Application #: 6

From: Ajax Paving Industries of Florida, LLC
 One Ajax Drive
 North Venice, FL 34275

To: City of Avon Park
 110 East Main Street
 Avon Park, FL 33825

Invoice Due Date: 09/11/23

Payment Terms: Net 10 Days

Item	Description	SI Code	Contract Amount	Contract Quantity	U/M	Quantity JTD	Unit Price	Materials On-Site	Total Completed And Stored			Amount Previous	Quantity This Period	Amount This Period
									To Date	%				
12	LIME ROCK BASE COURSE.	P-211-1	548,700.00	9,300,000	SY	8,836.880	59.00000	0.00	521,375.92	95.02%		521,375.92	0.000	0.00
13	9-INCHES THICK SEPARATION GEOTEXTILE	P-211-2	55,800.00	9,300,000	SY	8,836.880	6.00000	0.00	53,021.28	95.02%		53,021.28	0.000	0.00
14	HOT MIXED ASPHALT PAVEMENT.	P-401-1	504,000.00	2,250,000	TON	2,218.480	224.00000	0.00	496,939.52	98.60%		496,939.52	0.000	0.00
15	SURFACE COURSE EMULSIFIED ASPHALT PRIME COAT	P-602-1	8,400.00	2,800,000	GAL	0.000	3.00000	0.00	0.00	0.00%		0.00	0.000	0.00
16	EMULSIFIED ASPHALT TACK COAT	P-603-1	2,250.00	750,000	GAL	1,428.000	3.00000	0.00	4,284.00	190.40%		4,284.00	0.000	0.00
17	CONCRETE DUMPSTER PAD	P-610-1	5,500.00	1,000	LSU	1,000	5,500.00000	0.00	5,500.00	100.00%		5,500.00	0.000	0.00
18	PERMANENT AIRFIELD MARKINGS WITH TYPE III GLASS BEADS (YELLOW) SODDING & TOPSOILING	P-620-1	3,825.00	225,000	SF	0.000	17.00000	0.00	0.00	0.00%		0.00	0.000	0.00
19	UNDERGROUND UTILITY LOCATES	T-904-1	32,400.00	3,600,000	SY	3,600,000	9.00000	0.00	32,400.00	100.00%		32,400.00	0.000	0.00
20	GENERAL ELECTRICAL DEMOLITION	I-100-1	6,300.00	1,000	LSU	1,000	6,300.00000	0.00	6,300.00	100.00%		6,300.00	0.000	0.00
21		L-100-2	25,100.00	1,000	LSU	1,000	25,100.00000	0.00	25,100.00	100.00%		25,100.00	0.000	0.00

Progress Bill

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To: City of Avon Park 110 East Main Street Avon Park, FL 33825			Invoice Due Date: 09/11/23 Payment Terms: Net 10 Days										
Item	Description	SI Code	Contract Amount	Contract Quantity	U/M	Quantity JTD	Unit Price	Materials On-Site	Total Completed And Stored		Amount Previous	Quantity This Period	Amount This Period
									To Date	%			
22	RE-ESTABLISH ELECTRICAL SERVICE TO EXISTING T-HANGARS	L-100-3	43,900.00	1,000	LSU	1,000	43,900.000000	0.00	43,900.00	100.00%	43,900.00	0.000	0.00
23	MOBILIZATION (UP TO 10%)	C-105-1	63,100.00	1,000	LSU	1,000	63,100.000000	0.00	63,100.00	100.00%	63,100.00	0.000	0.00
24	TEMPORARY AIR AND WATER POLLUTION, SOIL EROSION, AND SILTATI	C-102-1	2,500.00	1,000	LSU	1,000	2,500.000000	0.00	2,500.00	100.00%	2,500.00	0.000	0.00
25	MAINTENANCE OF TRAFFIC AND TEMPORARY CONSTRUCTION ITEMS	M-102-1	16,000.00	1,000	LSU	1,000	16,000.000000	0.00	16,000.00	100.00%	16,000.00	0.000	0.00
26	PROJECT SURVEY AND STAKEOUT	M-103-1	7,500.00	1,000	LSU	1,000	7,500.000000	0.00	7,500.00	100.00%	7,500.00	0.000	0.00
27	SAFETY AND SECURITY	M-104-1	60,900.00	1,000	LSU	1,000	60,900.000000	0.00	60,900.00	100.00%	60,900.00	0.000	0.00
28	FULL DEPTH ASPHALT PAVEMENT REMOVAL	P-101-1	13,600.00	1,700.000	SY	1,493.330	8.000000	0.00	11,946.64	87.84%	11,946.64	0.000	0.00
29	FULL DEPTH CONCRETE PAVEMENT REMOVAL	P-101-2	50,000.00	1,250.000	SY	1,111.110	40.000000	0.00	44,444.40	88.89%	44,444.40	0.000	0.00
30	SALVAGE AND REINSTALL CONCRETE BOLLARD	P-101-3	3,124.00	4,000	EA	4,000	781.000000	0.00	3,124.00	100.00%	3,124.00	0.000	0.00

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Item	Description	SI Code	Contract Amount	Contract Quantity	U/M	Quantity JTD	Unit Price	Materials On-Site	Total Completed And Stored			Amount Previous	Quantity This Period	Amount This Period
									To Date	%				
31	RPR DIRECTED CRACK REPAIR	P-101-4	1,000.00	500,000	LF	0.000	2.00000	0.00	0.00	0.00%		0.00	0.000	0.00
32	CLEARING AND GRUBBING	P-151-1	7,200.00	600,000	SY	600,000	12.00000	0.00	7,200.00	100.00%		7,200.00	0.000	0.00
33	UNCLASSIFIED EXCAVATION	P-152-1	1,430.00	55,000	CY	55,000	26.00000	0.00	1,430.00	100.00%		1,430.00	0.000	0.00
34	OFFSITE BORROW	P-152-2	4,650.00	150,000	CY	0.000	31.00000	0.00	0.00	0.00%		0.00	0.000	0.00
35	LIME ROCK BASE COURSE, 9-INCHES THICK	P-211-1	171,100.00	2,900,000	SY	2,808,890	59.00000	0.00	165,724.51	96.86%		165,724.51	0.000	0.00
36	SEPARATION GEOTEXTILE	P-211-2	5,800.00	2,900,000	SY	2,808,890	2.00000	0.00	5,617.78	96.86%		5,617.78	0.000	0.00
37	HOT MIXED ASPHALT PAVEMENT, SURFACE COURSE	P-401-1	163,100.00	700,000	TON	680,090	233.00000	0.00	158,460.97	97.16%		158,460.97	0.000	0.00
38	EMULSIFIED ASPHALT PRIME COAT	P-602-1	2,760.00	900,000	GAL	0.000	3.00000	0.00	0.00	0.00%		0.00	0.000	0.00
39	EMULSIFIED ASPHALT TACK COAT	P-603-1	750.00	250,000	GAL	258,000	3.00000	0.00	774.00	103.20%		774.00	0.000	0.00
40	EMULSIFIED ASPHALT SURFACE REJUVENATOR	P-608-1	48,500.00	4,850,000	SY	4,850,000	10.00000	0.00	48,500.00	100.00%		48,500.00	0.000	0.00
41	PERMANENT AIRFIELD MARKINGS WITH TYPE III GLASS BEADS (YELLOW)	P-620-1	2,200.00	275,000	SF	276,500	8.00000	0.00	2,212.00	100.55%		2,212.00	0.000	0.00

Progress Bill

From:

Ajax Paving Industries of Florida, LLC
One Ajax Drive
North Venice, FL 34275

Invoice:

406122-RT

Bill Number:

42 8/2023

Date:

09/01/23

Application #:

6

To:

City of Avon Park
110 East Main Street
Avon Park, FL 33825

Invoice Due Date:

09/11/23

Payment Terms:

Net 10 Days

Item	Description	SI Code	Contract Amount	Contract Quantity	U/M	Quantity JTD	Unit Price	Materials On-Site	Total Completed And Stored			Amount Previous	Quantity This Period	Amount This Period
									To Date	%				
42	PERMANENT AIRFIELD MARKINGS WITH NO GLASS BEADS (BLACK)	P-620-2	1,650.00	550,000	SF	1,010,000	3.00000	0.00	3,030.00	183.64%		3,030.00	0.000	0.00
43	AIRFIELD MARKING REMOVAL	P-620-3	4,950.00	825,000	SF	805,000	6.00000	0.00	4,830.00	97.58%		4,830.00	0.000	0.00
44	SODDING & TOPSOILING	T-904-1	5,000.00	500,000	SY	500,000	10.00000	0.00	5,000.00	100.00%		5,000.00	0.000	0.00
45	CO #1 Removal of Underground Box		686.32	1,000	LSU	1,000	686.32000	0.00	686.32	100.00%		686.32	0.000	0.00
999	Additional Job Cost Phases - Non Billable	01	0.00	1,000	LSU	0.000	0.00000	0.00	0.00	0.00%		0.00	0.000	0.00
1000	Adjustment	1000	0.00	1,000	DLR	0.000	0.00000	0.00	0.00	0.00%		0.00	0.000	0.00
9000	Composite Pay Factor	9000	0.00	1,000	DLR	0.000	0.00000	0.00	0.00	0.00%		0.00	0.000	0.00
9001	Fuel And Bituminous Adjustment	9001	0.00	1,000	DLR	0.000	0.00000	0.00	0.00	0.00%		0.00	0.000	0.00
Total for items with No Bill Group			2,416,615.32					0.00	2,327,746.42	96.32%		2,327,746.42		0.00

Total Billed To Date: 2,327,746.42

Less Retainage: 0.00

Less Previous Applications: 2,094,971.77

Total Due This Invoice: 232,774.65

2.3 Consent of Surety for Final Payment and Power of Attorney

**CITY OF AVON PARK, FLORIDA
AVON PARK EXECUTIVE AIRPORT (AVO)
FBO/TERMINAL APRON REHABILITATION**

PAYMENT BOND

Bond #013132059

KNOW ALL MEN BY THESE PRESENTS: that Ajax Paving Industries of Florida, LLC,
hereinafter called Contractor, and Liberty Mutual Insurance Company

as surety, hereinafter called Surety, are held and firmly bound unto the **City of Avon Park, Florida**
as obligee, hereinafter called owner, in the amount of
\$ 2,415,929.00 for the payment of which Contractor and Surety
bond themselves, their heirs, executors, administrators, successors, and assigns, jointly and severally,
firmly by these presents.

WHEREAS, Contractor has by written agreement dated _____, 20____, entered into a
Contract with Owner for **FAA AIP No. 3-12-0004-022-2022, FBO/Terminal Apron
Rehabilitation** at the **Avon Park Executive Airport** in accordance with all of the Contract
Documents consisting of the Plans and Specifications, and all addenda or other revisions prepared by
the **City of Avon Park, Florida**, which Contract is be reference made a part hereof and is
hereinafter referred to as the Contract.

NOW, THEREFORE, the conditions of the above obligation is such that if the said contractor shall
well and faithfully perform the things agreed by him to be done and performed according to the
terms of said Contract, and shall promptly make payments to all persons supplying labor, material,
and supplies used directly or indirectly by the said Contractor, or subcontractors, in the prosecution
of the work provided for in said Contract, we agreeing and assenting that this undertaking shall be
for the benefit of any subcontractor, material men, or laborer having a just claim, as well as for the
Obligee herein, then this obligation shall be void, otherwise, the same shall remain in full force and
effect, it being expressly understood and agreed that the liability of the Surety for any and all claims
hereunder shall in no event exceed the amount of this obligation as herein stated.

The said Surety hereby stipulates and agrees that no modifications, omissions, or additions, in or to
the terms of said Contract or on or to the plans and specifications therefor shall in any way affect the
obligation of said Surety or its Bond.

The said Surety shall inform the Owner thirty (30) days prior to expiration of this bond, by giving
notice by registered mail.

Signed and sealed this 4th day of November 2020

Principal must indicate whether corporation, partnership, company or individual)

Ajax Paving Industries of Florida, LLC

One Ajax Drive, North Venice, FL 34275

Principal

By: Christine Alvarez

Asst Corp. Secretary
Title

The person signing shall, in his own handwriting, sign the principals name, his own and his title. Where a person signing for a corporation is other than the President or Vice President, he must, by affidavit as contained herein, show his authority to bind the corporation.

(Contractor's corporate seal)

Liberty Mutual Insurance Company

175 Berkeley Street

Boston, MA 02116

Surety

By: Holly Nichols

Holly Nichols, Attorney-in-fact

, 20

COUNTERSIGNED:

Holly Nichols

Florida Resident Agent - Holly Nichols

W564989

Florida License Number

(Attach "BOND AFFIDAVIT" on copy of form bound in these specifications)

END OF PAYMENT BOND

If the Surety does not take over the work in a satisfactory manner within ten (10) days after the notice of default or does not proceed with completing the work in accordance with the Contract, the Owner shall have full power and authority, without impairing the obligation of the Contract or the Contract Bond, to take over the completion of the work; to appropriate or use any or all material and equipment that may be suitable; to enter into agreements and provisions thereof; or to use such other methods as may be required for completion of the Contract. The Contractor and his Surety shall be liable for all costs incurred by the owner in completing the work and for all liquidated damages in conformity with the terms of the Contract. If the sum of such liquidated damages and the expense so incurred by the Owner is less than the sum which would have been payable under this Contract if it had been completed by the Contractor or his Surety, the Contractor or his Surety shall be entitled to receive the difference; and if the sum of such expense and such liquidated damages exceeds the sum which would have been payable under the Contract, the Contractor and his Surety shall be liable and shall pay to the Owner the amount of such excess. Notice to the Contractor shall be deemed to have been served when delivered to the man in charge of any office used by the Contractor, his representative at or near the work, or by registered mail addressed to the Contractor at his last known place of business.

The said Surety further stipulates and agrees that this bond is also given and made as a guarantee insuring the owner against loss resulting from costs of repairing, replacing, or reconstructing any portion of the work performed or equipment furnished under the Contract, because of failure to perform as specified or from being defective in any manner whatsoever. This bond shall remain in full force and effect for a period of one year after the date of written recommendation and of acceptance by the Owner.

The said Surety shall inform the Owner thirty (30) days prior to expiration of this bond, by giving notice by registered mail.

Signed and sealed this 4th day of November, 2022

Principal must indicate whether corporation, partnership, company or individual

Ajax Paving Industries of Florida, LLC

One Ajax Drive, North Venice, FL 34275

Principal

By: Christine Suarez
Title: Asst. Corp. Secretary

The person signing shall, in his own handwriting, sign the principals name, his own name, and his title. Where a person signing for a corporation is other than the President or Vice President, he must, by affidavit as contained herein, show his authority to bind the corporation.

(Contractor's corporate seal)

Liberty Mutual Insurance Company

175 Berkeley Street

Boston, MA 02116

Surety

By: Holly Nichols
Holly Nichols, Attorney-in-fact

_____, 20__

Countersigned:

Holly Nichols
Florida Resident Agent - Holly Nichols

W564989

Florida License Number

(Attach "BOND AFFIDAVIT" on copy of form bound in these specifications)

END OF PERFORMANCE BOND

THIS PAGE INTENTIONALLY LEFT BLANK

**CITY OF AVON PARK, FLORIDA
AVON PARK EXECUTIVE AIRPORT (AVO)
FBO/TERMINAL APRON REHABILITATION**

BOND AFFIDAVIT

State of Michigan

County of Oakland

Before me, the undersigned authority, personally appeared Holly Nichols, who, being duly sworn, deposes and says that he is a duly authorized (resident) (nonresident) insurance agent, properly licensed under the laws of the State of Michigan and the State of Florida, to represent Liberty Mutual Insurance Company of (company name), a company authorized to make corporate surety bonds under the laws of the State of Florida.

Said Holly Nichols further certifies that as Attorney-in-fact for the said Liberty Mutual Insurance Company he has signed the attached bond in the sum of U.S. \$2,415,929.00 on behalf of Ajax Paving Industries of Florida, LLC covering **City of Avon Park, Florida, FAA AIP No. 3-12-0004-022-2022, FBO/Terminal Apron Rehabilitation at Avon Park Executive Airport.**

Said Holly Nichols further certifies that the premium on the said bond is \$8,958.00 which will be paid in full direct to him as Attorney-in-fact, and included in his regular accounts to the said Liberty Mutual Insurance Company, and that he will receive his regular commission of 22 percent as Attorney-in-fact for the execution of said Bond and that his commission will not be divided with anyone except as follows: percent N/A to N/A (company name), who is duly authorized resident insurance agent and properly licensed under the laws of the State of Florida.

Countersigned:

Florida Resident Agent

Florida License Number

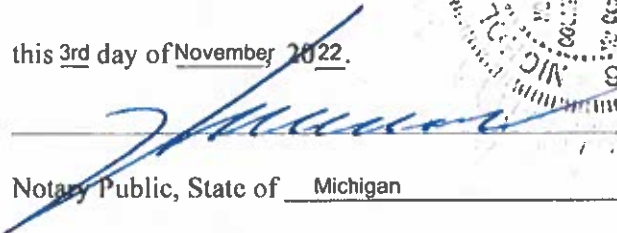
Holly Nichols
Agent and Attorney-in-fact

W564989

ACKNOWLEDGMENT FOR ATTORNEY-IN-FACT

Sworn to and subscribed before me

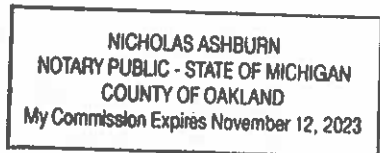
this 3rd day of November 2022.


Notary Public, State of Michigan

My Commission expires 11/12/2023.



END OF BOND AFFIDAVIT





This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: 8198086-013068

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Anne Barick, Holly Nichols, Jason Rogers, Mark Madden, Michael D. Lechner, Nicholas Ashburn, Paul M. Hurley, Richard S. McGregor, Robert D. Heuer

all of the city of Rochester Hills state of MI each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 30th day of November, 2018.



Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By:

David M. Carey
David M. Carey, Assistant Secretary

State of PENNSYLVANIA
County of MONTGOMERY ss

On this 30th day of November, 2018 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Insurance Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2025
Commission number 1126044
Member, Pennsylvania Association of Notaries

By:

Teresa Pastella
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this _____ day of _____



By:

Renee C. Llewellyn
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.

2.4 Change Orders

CITY OF AVON PARK, FLORIDA
AVON PARK EXECUTIVE AIRPORT (AVO)
 110 East Main Street
 Avon Park, Florida 33825



Project Title: FBO/Terminal Apron Rehabilitation		Date Prepared: 5/24/2023	
Project Description: FBO/Terminal Apron Rehabilitation		AIP No. 3-12-0004-024-2022	
Contractor Address: Ajax Paving Industries of Florida, LLC One Ajax Drive, North Venice, FL 34275		FDOT Fin. Proj. No. 448711-1-94-01	
		Change Order # 1	

ORIGINAL CONTRACT AMOUNT:	\$ 2,415,929.00
COST OF PREVIOUS CHANGE ORDER:	\$ NA
COST OF THIS CHANGE ORDER:	\$ 686.32
REVISED CONTRACT AMOUNT:	\$ 2,416,615.32

Description of Change	Quantity	Unit Price	Total Amount
Removal of concrete box	1	\$686.32	\$686.32

Reason for Change Order: *Unforeseen site condition adjacent to paving area that was preventing the original contract scope of work from being completed. Refer to attached correspondence.*

Subject to the condition set forth below, an equitable adjustment is established as follows:

The contract price is...	The contract time to complete work is...
☐ Not changed	☒ Not changed
☒ Increased	☐ Increased
☐ Decreased	☐ Decreased

The foregoing is in accordance with your contract dated **December 2nd, 2022** and as listed below:

- The aforementioned change and work affected thereby are subject to all contract stipulations and covenants.
- The rights of the Owner are not prejudiced; and
- All claims against the Owner which incidental to or as consequence of the aforementioned change are satisfied.

Signature	Title	Date
Contractor Sharon C Radford Digitally signed by Sharon C Radford Date: 2023.05.25 16:03:26 -0400	Project Manager	5/25/2023
Design Consultant Jared C Moreng Digitally signed by Jared C Moreng Date: 2023.05.25 16:03:26 -0400	Engineer of Record	5/25/2023
Owner/Sponsor	MAYOR	6/1/2023
FAA:		
FDOT: DocuSigned by: FDOT Aviation Coordinator	FDOT Aviation Coordinator	6/6/2023

DISTRIBUTION: Copy for Each Signatory Party

9EA4269114E440A...


AJAX
PAVING INDUSTRIES, INC.
Additional Work / Change-Order
Price Breakdown Sheet

Project: <u>AVO - FBO/Terminal Apron Rehab</u>	County: <u>Highlands</u>
Location: <u>Avon Park</u>	
Submitted By: <u>Ajax Paving Industries of FL, LLC</u>	
Description of Work: <u>Removal of underground box found in phase 2</u>	
Proposed Bid Item: <u>N/A</u>	Quantity: <u>1</u>
Date: <u>4/20/2023</u>	
Comments: <u>Removal of underground box found in phase 2</u>	

Labor with Burden

Description:	Rate	Burden	Cost Rate	Days/Hours	Total
	\$ -	51.84%	\$ -	0.00	\$ -
	\$ -	51.84%	\$ -	0.00	\$ -
	\$ -	51.84%	\$ -	0.00	\$ -
	\$ -	51.84%	\$ -	0.00	\$ -
				\$	-

Burden = Federal Income Tax, Social Security Tax, Medicare Tax, Workmens Compensation Ins., Federal Unemployment Ins., State Unemployment Ins., Hotel, Per Diem, and Employee Benefits.

Materials and Supplies

Description:	Quantity	Price	Total
	0	\$ -	\$ -
	0.00	\$ -	\$ -
	0.00	\$ -	\$ -
	Material Cost Total:		\$ -

Equipment Cost

Description:	Hourly/DY Rate	Hours/DY	Total
	0.00	\$ -	\$ -
	0.00	\$ -	\$ -
	0.00	\$ -	\$ -
	0.00	\$ -	\$ -
	0.00	\$ -	\$ -
	0.00	\$ -	\$ -
	Equipment Cost Total:		\$ -

Subcontractor Cost

Description:	Quantity (LS,HR,ED, EA, Etc.)	Price	Total
Ongrade Time and Materials	1.00	\$ 623.93	\$ 623.93
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
	Subcontractor Cost Total:		\$ 623.93

Contract Pay Items

Description:	Quantity (LS,HR)	Price	Total
	0	\$ -	\$ -
	Contract Pay Totals:		\$ -

Breakdown

Description:	Cost Totals	Mark-Up %	Mark-Up	Total
Labor with Burden Cost	\$ -	17.50%	\$ -	\$ -
Material and Supplies Cost	\$ -	17.50%	\$ -	\$ -
Equipment Cost	\$ -	17.50%	\$ -	\$ -
Subcontractor Cost (Ajax Mark-up = 10%)	\$ 623.93	10.00%	\$ 62.39	\$ 686.32
Contract Items	\$ -	0.00%	\$ -	\$ -
	Total Cost		\$	686.32

Moreng, Jared

From: Martinez, Miguel (FAA) <Miguel.Martinez@faa.gov>
Sent: Friday, April 28, 2023 3:21 PM
To: Moreng, Jared
Cc: Melody Sauerhafer; Gallon, Dawn
Subject: RE: AVO - FBO/Terminal Apron Rehabilitation - Change Order for Concrete Box

Categories: External

Hi Jared,

I will need all parties (Contractor, consultant and City) to sign the change order prior to my approval.

Miguel A. Martinez
Program Manager
Orlando Airports District Office
8427 Southpark Circle, Suite 524
Orlando, Florida 32819-9058
Telephone: 407-487-7235
Fax: 407-487-7135

From: Moreng, Jared <Jared.Moreng@kimley-horn.com>
Sent: Thursday, April 27, 2023 9:17 AM
To: Martinez, Miguel (FAA) <Miguel.Martinez@faa.gov>
Cc: Melody Sauerhafer <msauerhafer@avonpark.city>; Gallon, Dawn <Dawn.Gallon@dot.state.fl.us>
Subject: RE: AVO - FBO/Terminal Apron Rehabilitation - Change Order for Concrete Box

Good Morning Miguel –

Just following up on the CO request from AVO. Is there any additional information needed to be able to include this in an upcoming reimbursement request from the City?

Thanks,

Jared C. Moreng, P.E.
Kimley-Horn | 201 North Franklin Street, Ste. 1400, Tampa, FL 33602
Direct: 813/635-5504 | Mobile: 970/270-6405 | www.kimley-horn.com |

From: Moreng, Jared
Sent: Monday, April 24, 2023 1:58 PM
To: Martinez, Miguel (FAA) <Miguel.Martinez@faa.gov>
Subject: RE: AVO - FBO/Terminal Apron Rehabilitation - Change Order for Concrete Box

Miguel – see attached. I can provide photos, etc. if desired.

Thanks,

Jared C. Moreng, P.E.

Kimley-Horn | 201 North Franklin Street, Ste. 1400, Tampa, FL 33602
Direct: 813/635-5504 | Mobile: 970/270-6405 | www.kimley-horn.com |

From: Martinez, Miguel (FAA) <Miguel.Martinez@faa.gov>
Sent: Monday, April 24, 2023 1:36 PM
To: Moreng, Jared <Jared.Moreng@kimley-horn.com>
Subject: RE: AVO - FBO/Terminal Apron Rehabilitation - Change Order for Concrete Box

Jared,

Please provide a sketch showing the location of the concrete box in relation to the project area.

Thanks,

Miguel A. Martinez
Program Manager
Orlando Airports District Office
8427 Southpark Circle, Suite 524
Orlando, Florida 32819-9058
Telephone: 407-487-7235
Fax: 407-487-7135

From: Moreng, Jared <Jared.Moreng@kimley-horn.com>
Sent: Monday, April 24, 2023 1:12 PM
To: Martinez, Miguel (FAA) <Miguel.Martinez@faa.gov>; Gallon, Dawn <Dawn.Gallon@dot.state.fl.us>; Kristi Smith <kristi.smith@dot.state.fl.us> <kristi.smith@dot.state.fl.us>
Cc: Melody Sauerhafer <msauerhafer@avonpark.city>; Gutowski, Loren <Loren.Gutowski@kimley-horn.com>; Goodling, Brian <Brian.Goodling@kimley-horn.com>; Larsen, Erin <Erin.Larsen@kimley-horn.com>
Subject: RE: AVO - FBO/Terminal Apron Rehabilitation - Change Order for Concrete Box

Good Afternoon,

I wanted to follow up with you on the concrete box change order. Ajax submitted the attached change order request totally \$686.32. This is much less than I originally thought it was going to be, but it is still additional work that was not in the contract documents as an unforeseen site condition.

Currently, the project is running on time and within the approved budget. Is this change order something FAA and FDOT will consider providing reimbursement for through the approved grant agreements?

Thanks,

Jared C. Moreng, P.E.

Kimley-Horn | 201 North Franklin Street, Ste. 1400, Tampa, FL 33602
Direct: 813/635-5504 | Mobile: 970/270-6405 | www.kimley-horn.com |

From: Moreng, Jared

Sent: Thursday, April 6, 2023 9:37 AM

To: Martinez, Miguel (FAA) <miguel.martinez@faa.gov>; Gallon, Dawn <Dawn.Gallon@dot.state.fl.us>; Kristi Smith <kristi.smith@dot.state.fl.us>

Cc: Melody Sauerhafer <msauerhafer@avonpark.city>; Gutowski, Loren <Loren.Gutowski@kimley-horn.com>; Goodling, Brian <Brian.Goodling@kimley-horn.com>; Larsen, Erin <Erin.Larsen@kimley-horn.com>

Subject: AVO - FBO/Terminal Apron Rehabilitation - Change Order for Concrete Box

Good Morning,

While I believe some of you may be already aware of this issue, I wanted to make FAA/FDOT aware of an upcoming change order request to the AVO FBO/Terminal Apron Rehab project.

During preparation of subgrade in Phase 2 (area adjacent to the fuel farm), Ajax (Prime Contractor) uncovered a concrete cinder-block box underground. At the time it was discovered, the walls appeared to be caving in, and the structure did not indicate any signs of recent use. We are speculating that the box was an old septic tank.

Given that the box was in an unstable state upon discovery, and since it was located directly adjacent – within 1-2 feet - to the areas to be paved, I authorized Ajax to remove the box and backfill the void in compacted lifts in accordance with the Contract Documents (P-152). I also indicated they needed to track the cost for this on a time and materials basis, separately from other approved contract work, to substantiate any change order request. Since this was an unforeseen site condition that was preventing Ajax from completing the contract work, I wanted to make sure that we were being responsive to this situation and not delaying the project, especially since Phase 2 is impacting the access to the airport's fuel farm.

When we receive Ajax's change order request, I will forward that along for your review and consideration for approval.

If you have any questions/concerns, or would like any additional information, please let me know.

Thanks!

Jared C. Moreng, P.E.

Kimley-Horn | 201 North Franklin Street, Ste. 1400, Tampa, FL 33602
Direct: 813/635-5504 | Mobile: 970/270-6405 | www.kimley-horn.com |

Moreng, Jared

From: Gallon, Dawn <Dawn.Gallon@dot.state.fl.us>
Sent: Tuesday, April 25, 2023 7:19 AM
To: Moreng, Jared; Martinez, Miguel (FAA)
Cc: Melody Sauerhafer; Gutowski, Loren; Goodling, Brian; Larsen, Erin; Smith, Kristi; Gallon, Dawn
Subject: RE: AVO - FBO/Terminal Apron Rehabilitation - Change Order for Concrete Box
Categories: External

Good morning, Jared:

The costs are eligible for reimbursement, but FDOT is waiting for the FAA to respond before moving forward with any work program or grant agreement actions.

Let me know if you have any questions.

Thank you.

Dawn M. Gallon, CPM, FCCM

Aviation/Intermodal Project Manager
Modal Development Office
Florida Department of Transportation - District One
Office: 863-519-2675
Cell: 863-608-3350
dawn.gallon@dot.state.fl.us



From: Moreng, Jared <Jared.Moreng@kimley-horn.com>
Sent: Monday, April 24, 2023 1:12 PM
To: Martinez, Miguel (FAA) <miguel.martinez@faa.gov>; Gallon, Dawn <Dawn.Gallon@dot.state.fl.us>; Smith, Kristi <Kristi.Smith@dot.state.fl.us>
Cc: Melody Sauerhafer <msauerhafer@avonpark.city>; Gutowski, Loren <Loren.Gutowski@kimley-horn.com>; Goodling, Brian <Brian.Goodling@kimley-horn.com>; Larsen, Erin <Erin.Larsen@kimley-horn.com>
Subject: RE: AVO - FBO/Terminal Apron Rehabilitation - Change Order for Concrete Box

EXTERNAL SENDER: Use caution with links and attachments.

Good Afternoon,

I wanted to follow up with you on the concrete box change order. Ajax submitted the attached change order request totally \$686.32. This is much less than I originally thought it was going to be, but it is still additional work that was not in the contract documents as an unforeseen site condition.

Currently, the project is running on time and within the approved budget. Is this change order something FAA and FDOT will consider providing reimbursement for through the approved grant agreements?

Thanks,

Jared C. Moreng, P.E.

Kimley-Horn | 201 North Franklin Street Ste. 1400, Tampa, FL 33602
Direct: 813/635-5504 | Mobile: 970/270-6405 | www.kimley-horn.com |

From: Moreng, Jared

Sent: Thursday, April 6, 2023 9:37 AM

To: Martinez, Miguel (FAA) <miguel.martinez@faa.gov>; Gallon, Dawn <Dawn.Gallon@dot.state.fl.us>; Kristi Smith <kristi.smith@dot.state.fl.us> <kristi.smith@dot.state.fl.us>

Cc: Melody Sauerhafer <msauerhafer@avonpark.city>; Gutowski, Loren <Loren.Gutowski@kimley-horn.com>; Goodling, Brian <Brian.Goodling@kimley-horn.com>; Larsen, Erin <Erin.Larsen@kimley-horn.com>

Subject: AVO - FBO/Terminal Apron Rehabilitation - Change Order for Concrete Box

Good Morning,

While I believe some of you may be already aware of this issue, I wanted to make FAA/FDOT aware of an upcoming change order request to the AVO FBO/Terminal Apron Rehab project.

During preparation of subgrade in Phase 2 (area adjacent to the fuel farm), Ajax (Prime Contractor) uncovered a concrete cinder-block box underground. At the time it was discovered, the walls appeared to be caving in, and the structure did not indicate any signs of recent use. We are speculating that the box was an old septic tank.

Given that the box was in an unstable state upon discovery, and since it was located directly adjacent – within 1-2 feet - to the areas to be paved, I authorized Ajax to remove the box and backfill the void in compacted lifts in accordance with the Contract Documents (P-152). I also indicated they needed to track the cost for this on a time and materials basis, separately from other approved contract work, to substantiate any change order request. Since this was an unforeseen site condition that was preventing Ajax from completing the contract work, I wanted to make sure that we were being responsive to this situation and not delaying the project, especially since Phase 2 is impacting the access to the airport's fuel farm.

When we receive Ajax's change order request, I will forward that along for your review and consideration for approval.

If you have any questions/concerns, or would like any additional information, please let me know.

Thanks!

Jared C. Moreng, P.E.

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Direct: 813/635-5504 | Mobile: 970/270-6405 | www.kimley-horn.com |

Ajax Paving 4/6/03
AVC-FBO/Terminal Rehab.
RFI #3
T and M Sheet

- 1 Cat Track Hoe with Operator - 1 hour
- 1 Cat Skidsteer with Operator - 1 hour
- 1 Foreman pickup - 1 hour
- 1 Superintendent pickup - 1 hour
- 1 Foreman - 1 hour
- 1 Superintendent - 1 hour
- 2 laborers - 1 hour

form # ~~1000~~ 1000

Section 3

Construction Quality Assurance

3.1 List of Material Certifications and Submittals



AVO - Apron Rehab

Submittal No.	REFERENCE SPECIFICATION NUMBER	DESCRIPTION
1	M-104	Safety Plan Compliance Document (SPCD)
2	P-401	Asphalt Mix Design
3	P-211	Limerock
4	P-211	Separation Geotextile
5	P-603	Tack Coat
1R1	M-104	Revised Per Submittal 1 - Safety Plan Compliance Document (SPCD)
6	C-100	Contractor Quality Control Program (CQCP)
2R1	P-401	Revised Per Submittal 2 - Asphalt Mix Design
5R1	P-603	Revised Per Submittal 5 - Tack Coat
1R2	M-104	Safety Plan Compliance Document (SPCD)
7	M-104	Schedule
7R1	M-104	Schedule
4R1	P-211	Separation Geotextile
8	NA	Contractor Subcontracts (No Review Required)
9	L-115	Pull Box
10	P-610	Concrete for Duct Encasement
11	M-102	NPDES Permit
9R1	L-115	Junction Can
10R1	P-610	Concrete for Duct Encasement
12	L-108	Conductors for T-Hangars
13	L-115	Junction Can Cover
12R1	L-108	Conductors for T-Hangars
14	L-115	Electrical Manhole
15	L-115	Circuit Breaker for T Hangar
6R1	C-100	Contractor Quality Control Program (CQCP)
16	P-602	Prime Coat COA
17	P-401	Phase 1A Paving Plan
16R1	P-602	Prime Coat COA
18	P-620	Paint
19	P-620	Glass Beads
20	P-401	Phase 2 Paving Plan
21	P-608	Seal Coat/Aggregate
22	NA	As-Built Survey
22R1	NA	As-Built Survey
18R1	P-620	Glass Beads

3.2 P-152 Soil Density Test Summary

TIERRA

RESULTS OF LABORATORY TESTING

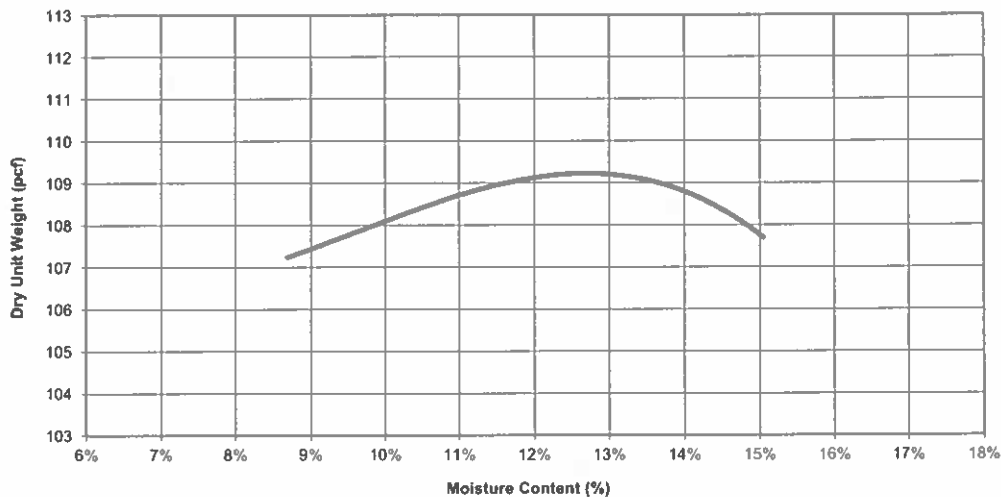
Tested For: Kimley-Horn
655 N. Franklin St.
Suite 150
Tampa, FL 33602

Project: Avon Park Executive Airport
FBO Terminal - Apron Rehabilitation
Avon Park, FL

Report Date: 2/15/2023

Project No. 6111-22-111
Proctor No. MP01

MOISTURE-DENSITY RELATIONSHIP



Maximum Density 109.2 pcf
Optimum Moisture 12.6 %
Test Method: ASTM D-1557: Modified
Sampled by: G. Zoller
Date Sampled: 2/10/2023
USCS Classification: SP
Liquid Limit: NP
Plastic Limit: NP
Plastic Index: NP
Organic Content: 0.9%

Description: Dark Brown Fine Sand
Sample Location: Existing
Sampled From: 70' N - 60' E. of N.W. Corner of J-Hanger

Grain Size Analysis							
3/4"	3/8"	#4	#10	#40	#60	#100	#200
100	100	99.1	98.5	69.4	17.9	5.4	3.7

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cc:

Respectfully Submitted,
Tierra, Inc.

TIERRA

RESULTS OF LABORATORY TESTING

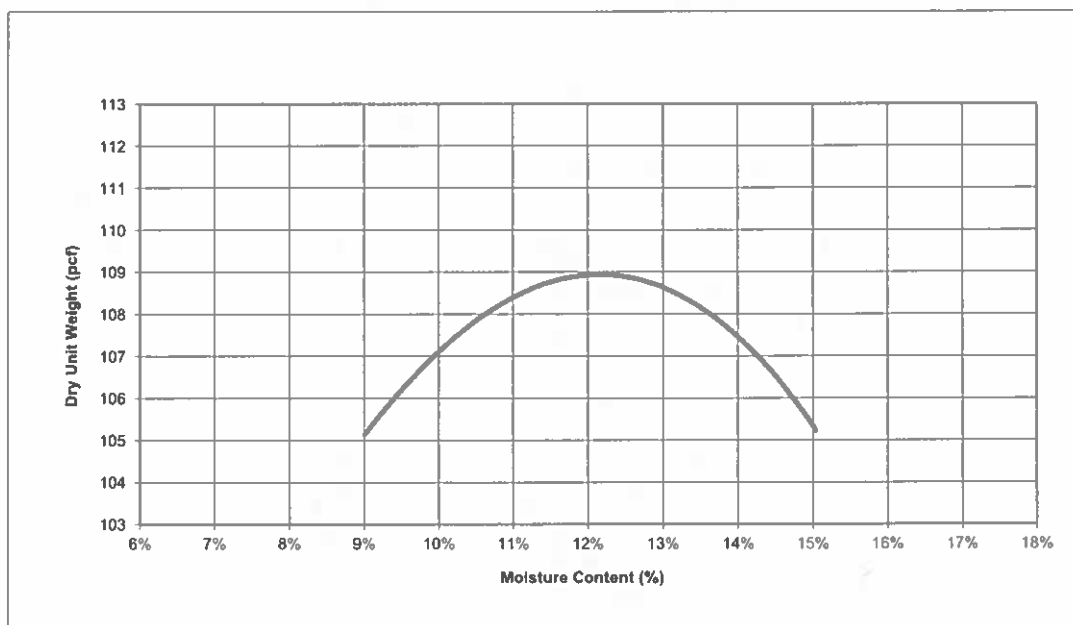
Tested For: Kimley-Horn
655 N. Franklin St.
Suite 150
Tampa, FL 33602

Project: Avon Park Executive Airport
FBO Terminal - Apron Rehabilitation
Avon Park, FL

Report Date: 2/15/2023

Project No. 6111-22-111
Proctor No. MP02

MOISTURE-DENSITY RELATIONSHIP



Maximum Density 108.9 pcf
Optimum Moisture 12.1 %
Test Method: ASTM D-1557: Modified
Sampled by: G. Zoller
Date Sampled: 2/10/2023
USCS Classification: SP
Liquid Limit: NP
Plastic Limit: NP
Plastic Index: NP
Organic Content: 2.4%

Description: Brown Fine Sand
Sample Location: Existing
Sampled From: 210' N. - 135' W. of N.W. Corner of J-Hanger

Grain Size Analysis							
3/4"	3/8"	#4	#10	#40	#60	#100	#200
100	100	100	100	77.8	25.6	8.1	5.0

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Respectfully Submitted,
Tierra, Inc.

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RESULTS OF LABORATORY TESTING

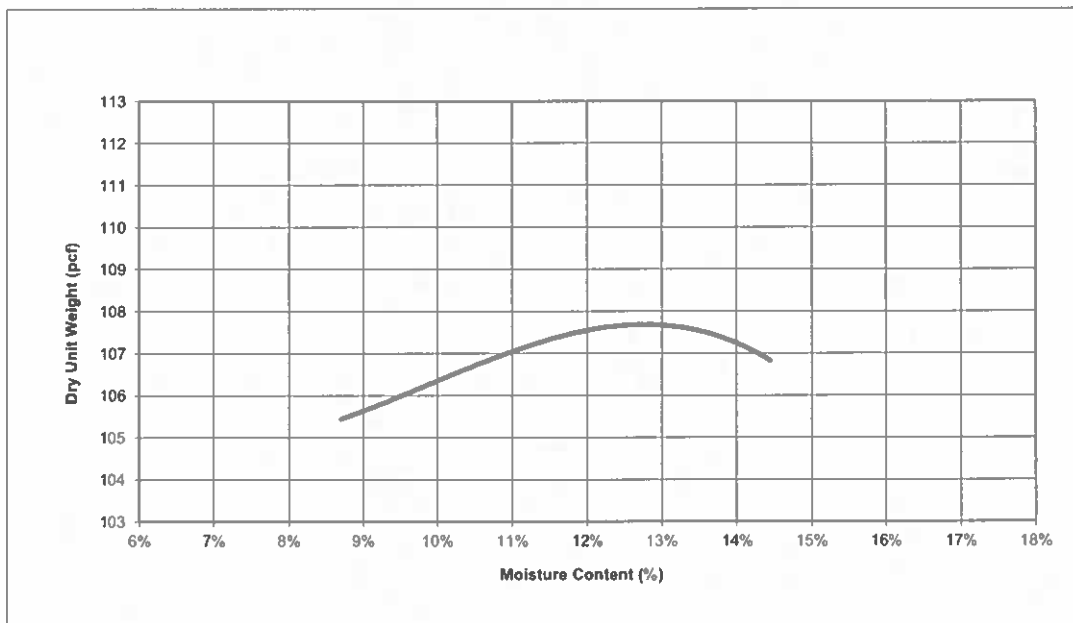
Tested For: Kimley-Horn
655 N. Franklin St.
Suite 150
Tampa, FL 33602

Project: Avon Park Executive Airport
FBO Terminal - Apron Rehabilitation
Avon Park, FL

Report Date: 2/15/2023

Project No. 6111-22-111
Proctor No. MP03

MOISTURE-DENSITY RELATIONSHIP



Maximum Density 107.7 pcf
Optimum Moisture 12.7 %
Test Method: ASTM D-1557: Modified
Sampled by: G. Zoller
Date Sampled: 2/10/2023
USCS Classification: SP
Liquid Limit: NP
Plastic Limit: NP
Plastic Index: NP
Organic Content: 0.2%

Description: Dark Gray Fine Sand
Sample Location: Existing
Sampled From: 40' S. - 70' E. of S.W. Corner of J-Hanger

Grain Size Analysis							
3/4"	3/8"	#4	#10	#40	#60	#100	#200
100	100	100	100	70.7	15.8	3.6	2.4

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RESULTS OF LABORATORY TESTING

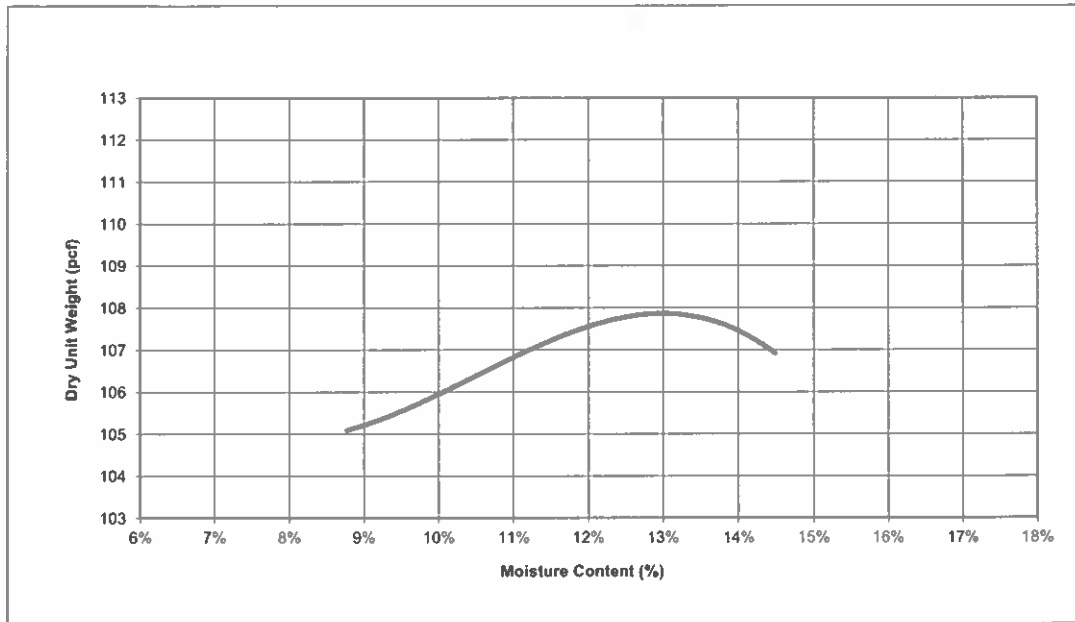
Tested For: Kimley-Horn
655 N. Franklin St.
Suite 150
Tampa, FL 33602

Project: Avon Park Executive Airport
FBO Terminal - Apron Rehabilitation
Avon Park, FL

Report Date: 2/15/2023

Project No. 6111-22-111
Proctor No. MP04

MOISTURE-DENSITY RELATIONSHIP



Maximum Density 107.9 pcf
Optimum Moisture 13.0 %
Test Method: ASTM D-1557: Modified
Sampled by: G. Zoller
Date Sampled: 2/10/2023

USCS Classification: SP

Liquid Limit:	NP
Plastic Limit:	NP
Plastic Index:	NP

Organic Content: 0.2%

Description: Gray Fine Sand
Sample Location: Existing
Sampled From: 45' S. - 30' E. of S.E. Corner of J-Hanger

Grain Size Analysis							
3/4"	3/8"	#4	#10	#40	#60	#100	#200
100	100	100	100	77.9	21.8	4.5	2.7

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cc:

Respectfully Submitted,
Tierra, Inc.



**7351 Temple Terrace Highway
Tampa, Florida 33637
Florida Certificate No. 6486**

Phone: (813) 989-1354
FAX: (813) 989-1355

REPORT OF SOIL DENSITY TEST

CLIENT: Kimley-Horn
655 N. Franklin Street, Suite 150
Tampa, FL. 33602

DATE TESTED: 02/21/23
JOB NO: 6111-22-111
TEST METHOD: ASTM D 6938

PROJECT NAME: Avon Park Executive Airport (AVO)
FBO Terminal - Apron Rehabilitation
Avon Park, FL

Page 1 of 1

[illegible]

TESTS COMPARED TO:				
(*) Moisture/Density	Maximum Dry Density (pcf)	Optimum Moisture (%)	Method of Test	Soil Description
(1) MP-01	109.2	12.6	ASTM D-1557	Dark Brown Fine Sand
(2) MP-02	108.9	12.1	ASTM D-1557	Brown Fine Sand
(3) MP-03	107.7	12.7	ASTM D-1557	Dark Gray Fine Sand
(4) MP-04	107.9	13.0	ASTM D-1557	Gray Fine Sand

Respectfully Submitted,

TIERRA, INC.

Copies: jared.moreng@kimley-horn.com
brian.goodling@kimley-horn.com
erin.larsen@kimley-horn.com



**7351 Temple Terrace Highway
Tampa, Florida 33637
Florida Certificate No. 6486**

Phone: (813) 989-1354
FAX: (813) 989-1355

REPORT OF SOIL DENSITY TEST

CLIENT: Kimley-Horn
655 N. Franklin Street, Suite 150
Tampa, FL. 33602

DATE TESTED: 03/02/23
JOB NO: 6111-22-111
TEST METHOD: ASTM D 6938

PROJECT NAME: Avon Park Executive Airport (AVO)
FBO Terminal - Apron Rehabilitation
Avon Park, FL

Page 1 of 1

[illegible]

TESTS COMPARED TO:				
(*) Moisture/Density	Maximum Dry Density (pcf)	Optimum Moisture (%)	Method of Test	Soil Description
(1) MP-01	109.2	12.6	ASTM D-1557	Dark Brown Fine Sand
(2) MP-02	108.9	12.1	ASTM D-1557	Brown Fine Sand
(3) MP-03	107.7	12.7	ASTM D-1557	Dark Gray Fine Sand
(4) MP-04	107.9	13.0	ASTM D-1557	Gray Fine Sand

Respectfully Submitted,

TIERRA, INC.

Copies: jared.moreng@kimley-horn.com
brian.goodling@kimley-horn.com
erin.larsen@kimley-horn.com

Phone: (813) 989-1354
FAX: (813) 989-1355

REPORT OF SOIL DENSITY TEST

CLIENT: Kimley-Horn
655 N. Franklin Street, Suite 150
Tampa, FL. 33602

DATE TESTED: 03/06/23
JOB NO: 6111-22-111
TEST METHOD: ASTM D 6938

PROJECT NAME: Avon Park Executive Airport (AVO)
FBO Terminal - Apron Rehabilitation
Avon Park, FL

Page 1 of 1

[illegible]

TESTS COMPARED TO:				
(*) Moisture/Density	Maximum Dry Density (pcf)	Optimum Moisture (%)	Method of Test	Soil Description
(1) MP-01	109.2	12.6	ASTM D-1557	Dark Brown Fine Sand
(2) MP-02	108.9	12.1	ASTM D-1557	Brown Fine Sand
(3) MP-03	107.7	12.7	ASTM D-1557	Dark Gray Fine Sand
(4) MP-04	107.9	13.0	ASTM D-1557	Gray Fine Sand

Respectfully Submitted,

TIERRA, INC.

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brian.goodling@kimley-horn.com
erin.larsen@kimley-horn.com

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Tampa, Florida 33637
Florida Certificate No. 6486**

Phone: (813) 989-1354
FAX: (813) 989-1355

REPORT OF SOIL DENSITY TEST

CLIENT: Kimley-Horn
655 N. Franklin Street, Suite 150
Tampa, FL. 33602

DATE TESTED: 03/13/23
JOB NO: 6111-22-111
TEST METHOD: ASTM D 6938

PROJECT NAME: Avon Park Executive Airport (AVO)
FBO Terminal - Apron Rehabilitation
Avon Park, FL

Page 1 of 1

[illegible]

TESTS COMPARED TO:				
(*) Moisture/Density	Maximum Dry Density (pcf)	Optimum Moisture (%)	Method of Test	Soil Description
(1) MP-01	109.2	12.6	ASTM D-1557	Dark Brown Fine Sand
(2) MP-02	108.9	12.1	ASTM D-1557	Brown Fine Sand
(3) MP-03	107.7	12.7	ASTM D-1557	Dark Gray Fine Sand
(4) MP-04	107.9	13.0	ASTM D-1557	Gray Fine Sand

Respectfully Submitted,

TIERRA, INC.

Copies: jared.moreng@kimley-horn.com
brian.goodling@kimley-horn.com
erin.larsen@kimley-horn.com

Copies: lared.moreng@kimley-horn.com
brian.goodling@kimley-horn.com
erin.larsen@kimley-horn.com

3.3 P-211 Limerock Base Course Test Summary

TIERRA

RESULTS OF LIMEROCK BEARING RATIO TEST

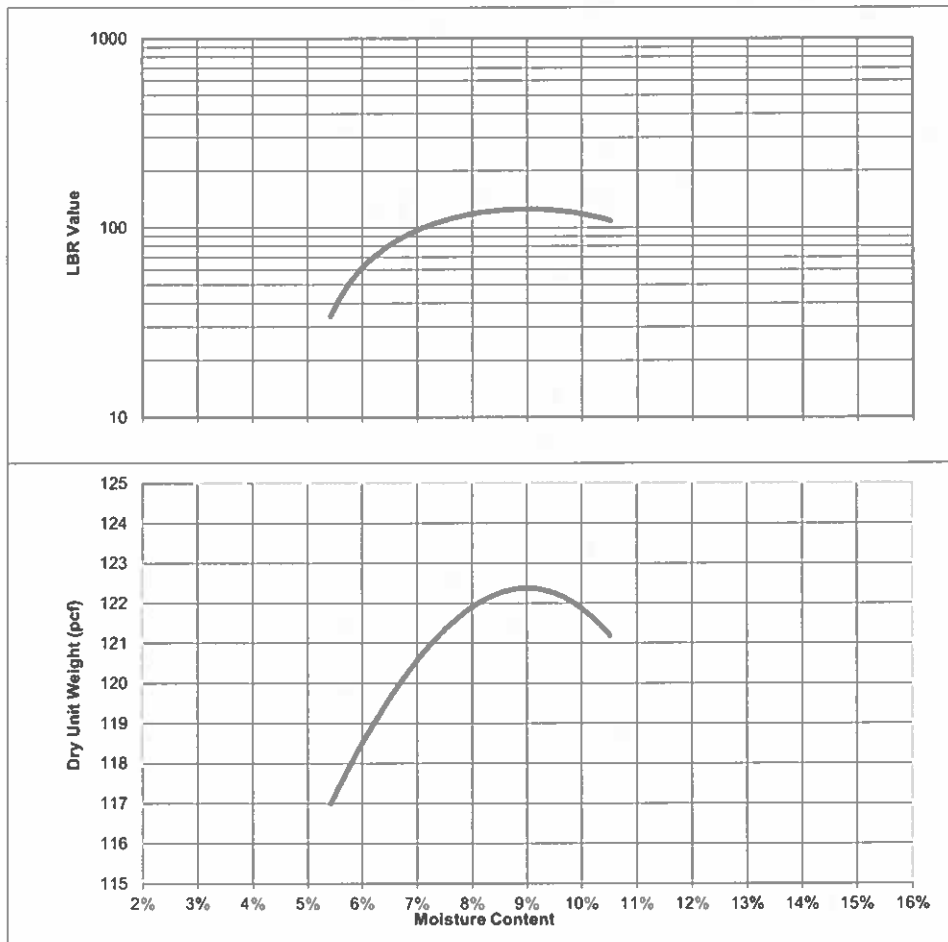
Tested For: Kimley Horn
655 N. Franklin St., Suite 150
Tampa, FL 33602

Project: Avon Park Executive Airport
FBO Terminal - Apron Rehabilitation
Avon Park, FL

Date: 2/15/2023

Project No. 6111-22-111
Report No. LBR01

LBR & MOISTURE-DENSITY RELATIONSHIP



LBR Value 130
Maximum Density 122.4 pcf
Optimum Moisture 9.0 %
% Pass 3-1/2" Sieve: 100
% Pass 3/4" Sieve: 56.2
Test Method: FSTM FM 5-515
Tested By: J. Shuey

Description: P-211 Limerock

Sample Location: Stockpile

CC:

7351 Temple Terrace • Tampa, FL 33637
Florida Certificate No. 6486

Respectfully Submitted,
TIERRA INC.



**7351 Temple Terrace Highway
Tampa, Florida 33637
Florida Certificate No. 6486**

Phone: (813) 989-1354
FAX: (813) 989-1355

REPORT OF SOIL DENSITY TEST

CLIENT: Kimley-Horn
655 N. Franklin Street, Suite 150
Tampa, FL. 33602

DATE TESTED: 02/24/23
JOB NO: 6111-22-111
TEST METHOD: ASTM D 6938

PROJECT NAME: Avon Park Executive Airport (AVO)
FBO Terminal - Apron Rehabilitation
Avon Park, FL

Page 1 of 1

[illegible]

TESTS COMPARED TO:				
(*) Moisture/Density	Maximum Dry Density (pcf)	Optimum Moisture (%)	Method of Test	Soil Description
LBR- 01	122.4	9.0	FM5-515	Limerock

Respectfully Submitted,

TIERRA, INC.

Copies: jared.moreng@kimley-horn.com
brian.goodling@kimley-horn.com
erin.larsen@kimley-horn.com

Phone: (813) 989-1354
FAX: (813) 989-1355

REPORT OF SOIL DENSITY TEST

CLIENT: Kimley-Horn
655 N. Franklin Street, Suite 150
Tampa, FL. 33602

DATE TESTED: 03/03/23
JOB NO: 6111-22-111
TEST METHOD: ASTM D 6938

PROJECT NAME: Avon Park Executive Airport (AVO)
FBO Terminal - Apron Rehabilitation
Avon Park, FL

Page 1 of 1

[illegible]

TESTS COMPARED TO:				
(*) Moisture/Density	Maximum Dry Density (pcf)	Optimum Moisture (%)	Method of Test	Soil Description
LBR- 01	122.4	9.0	FM5-515	Limerock

Respectfully Submitted,

TIERRA, INC.

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brian.goodling@kimley-horn.com
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TIERRA

7351 Temple Terrace Highway
Tampa, Florida 33637
Florida Certificate No. 6486

Phone: (813) 989-1354
FAX: (813) 989-1355

REPORT OF SOIL DENSITY TEST

CLIENT: Kimley-Horn
655 N. Franklin Street, Suite 150
Tampa, FL. 33602

DATE TESTED: 03/14/23
JOB NO: 6111-22-111
TEST METHOD: ASTM D 6938

PROJECT NAME: Avon Park Executive Airport (AVO)
FBO Terminal - Apron Rehabilitation
Avon Park, FL

Page 1 of 1

Test No.	Wet Wt. PCF	% Moist	Dry Density PCF	*	Percent Compaction	Percent Compaction Required	Approximate Test Location	Approximate Test Elevation
P-211 Pavement Base Course - Phase 1C								
51	137.2	10.8	123.8	1	101%	100%	60' N of Electrical Vault	1st Lift of Base
52	136.3	9.8	124.1	1	101%	100%	60' N & 40' W of Electrical Vault	1st Lift of Base
53	136.4	10.8	123.1	1	101%	100%	60' N & 80' W of Electrical Vault	1st Lift of Base
54	139.2	11.2	125.2	1	102%	100%	60' N & 120' W of Electrical Vault	1st Lift of Base
55	135.9	11.1	122.3	1	100%	100%	60' N & 250' W of Electrical Vault	1st Lift of Base
56	136.9	10.2	124.2	1	101%	100%	30' N & 10' E of Electrical Vault	1st Lift of Base
57	133.4	9.0	122.4	1	100%	100%	30' N & 50' W of Electrical Vault	1st Lift of Base
58	135.9	9.4	124.2	1	101%	100%	30' N & 90' W of Electrical Vault	1st Lift of Base
59	135.4	10.2	122.9	1	100%	100%	30' N & 130' W of Electrical Vault	1st Lift of Base
60	134.3	9.2	123.0	1	100%	100%	30' N & 245' W of Electrical Vault	1st Lift of Base
61	135.2	9.6	123.4	1	101%	100%	30' S & 10' E of Electrical Vault	1st Lift of Base
62	135.4	9.1	124.1	1	101%	100%	30' S & 50' W of Electrical Vault	1st Lift of Base
63	138.3	9.8	126.0	1	103%	100%	30' S & 95' W of Electrical Vault	1st Lift of Base
64	136.9	9.4	125.1	1	102%	100%	30' S & 140' W of Electrical Vault	1st Lift of Base
65	133.9	9.2	122.6	1	100%	100%	30' S & 250' W of Electrical Vault	1st Lift of Base
66	134.8	9.4	123.2	1	101%	100%	Dumpster Pad 30' E of Electrical Vault	1st Lift of Base
67	141.1	10.2	128.0	1	105%	100%	65' S of Electrical Vault	1st Lift of Base
68	135.8	10.3	123.1	1	101%	100%	50' S & 80' W of Electrical Vault	1st Lift of Base
69	136.5	9.4	124.8	1	102%	100%	50' S & 120' W of Electrical Vault	1st Lift of Base
70	135.2	9.0	124.0	1	101%	100%	50' S & 250' W of Electrical Vault	1st Lift of Base
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TESTS COMPARED TO:				
(*) Moisture/Density	Maximum Dry Density (pcf)	Optimum Moisture (%)	Method of Test	Soil Description
LBR- 01	122.4	9.0	FM5-515	Limerock

Respectfully Submitted,

TIERRA, INC.

Copies: jared.moreng@kimley-horn.com
brian.goodling@kimley-horn.com
erin.larsen@kimley-horn.com

TIERRA

7351 Temple Terrace Highway
Tampa, Florida 33637
Florida Certificate No. 6486

Phone: (813) 989-1354
FAX: (813) 989-1355

REPORT OF SOIL DENSITY TEST

CLIENT: Kimley-Horn
655 N. Franklin Street, Suite 150
Tampa, FL. 33602

DATE TESTED: 03/20/23
JOB NO: 6111-22-111
TEST METHOD: ASTM D 6938

PROJECT NAME: Avon Park Executive Airport (AVO)
FBO Terminal - Apron Rehabilitation
Avon Park, FL

Page 1 of 1

Test No.	Wet Wt. PCF	% Moist	Dry Density PCF	*	Percent Compaction	Percent Compaction Required	Approximate Test Location	Approximate Test Elevation
P-211 Pavement Base Course - Phase 1C								
71	138.0	8.6	127.1	1	104%	100%	60' S & 25' E of Electrical Box	2nd Lift of Base
72	134.9	8.5	124.3	1	102%	100%	55' S & 100' W of Electrical Box	2nd Lift of Base
73	137.9	8.5	127.1	1	104%	100%	55' S & 100' W of Electrical Box	2nd Lift of Base
74	133.8	7.8	124.1	1	101%	100%	55' S & 150' W of Electrical Box	2nd Lift of Base
75	133.3	8.9	122.4	1	100%	100%	55' S & 200' W of Electrical Box	2nd Lift of Base
76	134.4	9.2	123.1	1	101%	100%	55' S & 260' W of Electrical Box	2nd Lift of Base
77	136.8	10.2	124.1	1	101%	100%	25' S & 15' E of Electrical Box	2nd Lift of Base
78	136.3	9.2	124.8	1	102%	100%	25' S & 100' W of Electrical Box	2nd Lift of Base
79	136.6	9.7	124.5	1	102%	100%	25' S & 200' W of Electrical Box	2nd Lift of Base
80	132.9	8.4	122.6	1	100%	100%	25' S & 255' W of Electrical Box	2nd Lift of Base
81	133.6	8.3	123.4	1	101%	100%	20' E of Electrical Box	2nd Lift of Base
82	135.3	8.6	124.6	1	102%	100%	25' N & 50' W of Electrical Box	2nd Lift of Base
83	139.3	10.0	126.6	1	103%	100%	25' N & 100' W of Electrical Box	2nd Lift of Base
84	134.9	10.2	122.4	1	100%	100%	25' N & 150' W of Electrical Box	2nd Lift of Base
85	140.9	10.4	127.6	1	104%	100%	25' N & 220' W of Electrical Box	2nd Lift of Base
86	141.4	10.6	127.8	1	104%	100%	55' N & 25' E of Electrical Box	2nd Lift of Base
87	142.6	10.9	128.6	1	105%	100%	55' N & 100' W of Electrical Box	2nd Lift of Base
88	132.6	8.3	122.4	1	100%	100%	55' N & 150' W of Electrical Box	2nd Lift of Base
89	132.6	8.3	122.4	1	100%	100%	55' N & 200' W of Electrical Box	2nd Lift of Base
90	134.9	7.9	125.0	1	102%	100%	55' N & 250' W of Electrical Box	2nd Lift of Base
91	133.1	9.1	122.0	1	100%	100%	Approximate Center of Dumpster Pad	2nd Lift of Base

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TESTS COMPARED TO:				
(*) Moisture/Density	Maximum Dry Density (pcf)	Optimum Moisture (%)	Method of Test	Soil Description
LBR- 01	122.4	9.0	FM5-515	Limerock

Respectfully Submitted,

TIERRA, INC.

Copies: jared.moreno@kimley-horn.com
brian.goodling@kimley-horn.com
erin.larsen@kimley-horn.com

TIERRA

**7351 Temple Terrace Highway
Tampa, Florida 33637
Florida Certificate No. 6486**

Phone: (813) 989-1354
FAX: (813) 989-1355

REPORT OF SOIL DENSITY TEST

**CLIENT: Kimley-Horn
655 N. Franklin Street, Suite 150
Tampa, FL. 33602**

DATE TESTED: 04/03/23
JOB NO: 6111-22-111
TEST METHOD: ASTM D 6938

PROJECT NAME: Avon Park Executive Airport (AVO)
FBO Terminal - Apron Rehabilitation
Avon Park, FL

Page 1 of 1

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TESTS COMPARED TO:				
(*) Moisture/Density	Maximum Dry Density (pcf)	Optimum Moisture (%)	Method of Test	Soil Description
LBR- 01	122.4	9.0	FM5-515	Limerock

Respectfully Submitted,

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REPORT OF SOIL DENSITY TEST

**CLIENT: Kimley-Horn
655 N. Franklin Street, Suite 150
Tampa, FL. 33602**

DATE TESTED: 04/06/23
JOB NO: 6111-22-111
TEST METHOD: ASTM D 6938

PROJECT NAME: Avon Park Executive Airport (AVO)
FBO Terminal - Apron Rehabilitation
Avon Park, FL

Page 1 of 1

[illegible]

TESTS COMPARED TO:				
(*) Moisture/Density	Maximum Dry Density (pcf)	Optimum Moisture (%)	Method of Test	Soil Description
LBR- 01	122.4	9.0	FM5-515	Limerock

Respectfully Submitted,

TIERRA, INC.

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brian.goodling@kimley-horn.com
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3.4 P-401 Bituminous Pavement Test Summary

Client: Kimley-Horn
 Project Name: Avon Park FBO Terminal - Apron Rehab
 Project No.: 6111-22-111

Producer: Ajax Paving Industries
 Mix Type: P-401
 Mix Design:



7351 Temple Terrace Highway
 Tampa, Florida 33637
 813-989-1354 / 813-989-1355

Lot #1

02/28/23

Item P-401-SP Plant Mix Bituminous Pavements - Summary

		Field				Laboratory			
DATE	LOT #	% Mat Density (Average)	Mat Density (Spec)	% Joint Density (Average)	Min. % Joint Density (Spec)	% Air Voids (Average)	% Air Voids (Spec)	Tonnage Shipped from Plant	
2/28/23	Lot #1	95.04	92	91.93	90.5	3.77	2 - 5	407.80	
PWL		100		100		100			
CORE THICKNESS MEASUREMENTS OBTAINED FROM FIELD PERSONNEL (INCHES)									
		MAT #1	2	JOINT #1	2				
		MAT #2	2	JOINT #2	2				
		MAT #3	2	JOINT #3	2				
		MAT #4		JOINT #4					
		Average	2.00	Average	2.00				

Notes / Comments:

QA Plant: Paul Hartbarger

Tierra Inc.

P-401 ASPHALTIC CONCRETE - PAYMENT ADJUSTMENTS FOR DENSITIES & AIR VOIDS

Avon Park Executive Airport (AVO)
FBO Terminal - Apron Rehabilitation
6111-22-111

DATE: 2/28/2023

LOCATION:

TEST REPORT:

LOT NUMBER:

Lot Mix (Tons)

Mix Price per Ton

AC Price per Ton

Lot AC (Tons)

LOT PERCENT PAY:

MIX PAY TONS - 5

AC PAY TONS - 5

100

0.00

0.00

% NOTE Reject material may be accepted at 50% pay

50.00

50.00

JOINT DEN RESULT:

100

= PWL > ACCEPTABLE

INPUT DATA IN BOXES

AC CONTENT % SPECIMEN 1

(MIN 2 SAMPLE SPECIMEN 2)

SPECIMEN 3

SPECIMEN 4

5.47

5.49

SPECIMEN 5

SPECIMEN 6

SPECIMEN 7

SPECIMEN 8

AVERAGE:

5.48

%

ADDITIONAL SUBLOTS

SUBLOT 1 SUBLOT 2 SUBLOT 3 SUBLOT 4 SUBLOT 5 SUBLOT 6 SUBLOT 7 SUBLOT 8

MARSHALL

STABILITY

SAMPLE 1

SAMPLE 2

SAMPLE 3

AVG STABILITY

MARSHALL

FLOW

SAMPLE 1

SAMPLE 2

SAMPLE 3

AVG FLOW

AIR VOIDS %

SAMPLE 1

SAMPLE 2

SAMPLE 3

AVG AIR VOIDS

3.75

3.75

3.75

3.50

3.50

3.50

4.06

4.06

4.06

TMD

SAMPLE 1

SAMPLE 2

SAMPLE 3

AVG TMD (AVE)

2.48

2.48

2.48

2.49

2.49

2.49

2.49

2.49

2.49

MAT BSG

SAMPLE 1

SAMPLE 2

SAMPLE 3

AVG TMD / LOT

2.34

2.34

2.34

2.37

2.37

2.37

2.37

2.37

2.37

JOINT BSG

SAMPLE 1

SAMPLE 2

SAMPLE 3

AVG % DENS FOR LOT

2.31

2.31

2.31

2.27

2.27

2.27

2.28

2.28

2.28

LOCATION:

0

OT NUMBER:

0

93-100

103

90-93

PWL + 10

70-89

0.125PWL +

40-69

0.75PWL +

base course

below 40

50% or reject

FALSE

90-100

1.00

90-95

PWL + 10

75-90

0.5PWL + 5

55-74

1.4PWL + 12

Below 55

50% or Reject

True uses two sided acceptance criteria

(1) <= forces 100% pay if leveling course

92 Lower limit for Base Course

92.8 Lower limit for surface density criteria

96 Upper limit for two sided Density criteria

5 Upper limit for Air Content

3 Lower limit for Air Content

99.5 Lower Limit for Joint Density

MAT DENSITY CALCS:

X = 93.14

Standard Deviation (S): 0.6905

L: 92.8

Q: 3.2499

PWL: 100

PERCENT PAY: 100%

U: N/A

QU: N/A

PU: 0

VOID CALCS

X = 3.77

Standard Deviation (S): 0.7805

U: 5

Q: 4.3845

PU: 100

PWL: 100

PERCENT PAY: 100%

L: 2

QU: 6.7094

PL: 100

STABILITY CALCS:

X = 8888

Standard Deviation (S): #DIV/0!

L: NEED INPUT IN CELL C13

Q: #DIV/0!

PWL: 0

FLOW CALCS

X = 8888

Standard Deviation (S): #DIV/0!

U: NEED INPUT

Q: #VALUE!

PU: 0

PWL: -100

L: 8

QU: #DIV/0!

PL: 0

JOINT DENSITY CALCS:

X = 91.91

Standard Deviation (S): 0.7086

L: 90.5

Q: 2.015

PWL: 100

Joint Deduct value

0

Deduct applied directly to pay factor

Superpave Worksheet

Project Name: Avon Park Airport		Contractor: AJAX		Mix Type: 12.5 SP		Max. Agg. Size: 12.5mm											
Project No: 8111-22-111		Plant No: A0108		Aggregate Sp. Gr: 2.681		Mix Design No: 22-86001A											
Header		Lot	1	Sub	1	2	3										
	Date	2/28/23		2/28/23		2/28/23											
	Random #																
Asphalt Content	Load #	4		7		14											
	Basket wt., g	4230.9				4228.8											
	Bgn. Basket + Sample wt., g	5738.7				5737.7											
	Bgn. Sample wt., g	1507.8				1508.9											
	End Basket + Sample wt., g	5654.5				5652.5											
	Final Sample wt., g	1423.6				1423.7											
	AC from Print Out, %	5.57				5.59											
	Calibration Factor, %	-0.10				-0.10											
	Des. AC, %	5.4		Calib'd AC, %		5.47											
	Wt. of Extraced Agg., g	1423.3				1423.4											
Note: Diff. D & G shall not > 0.2% of Final Sample Wt.	0.02				0.02												
Wt. of Washed Sample, g	1376.2				1378.7												
Wt of - 75um Mat'l lost due to Washing, g	47.1				44.7												
Gradation	% Pass Sieves 1" thru #100 = 100-(Wt ret'd / Ext'd Agg. Wt.) * 100 % Pass #200 = (Wt. Of Pass due to Wash + Wt ret'd in Pan) / Ext'd Agg. Wt. * 100	Sieve	Target	Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass						
		1" (25.0mm), g	100	0.0	100		0.0	100		0.0	100						
		3/4" (19.0mm), g	100	0.0	100		0.0	100		0.0	100						
		1/2" (12.5mm), g	98	40.3	97.17		36.0	97.47		36.0	97.47						
		3/8" (9.5mm), g	87	187.3	86.84		177.1	87.56		177.1	87.56						
		No.4 (4.75mm), g	64	509.0	64.24		497.3	65.06		497.3	65.06						
		No.8 (2.36mm), g	49	736.7	48.24		730.3	48.69		730.3	48.69						
		No.16 (1.18mm), g	36	893.6	37.22		891.6	37.36		891.6	37.36						
		No.30 (600-m), g	28	1015.1	28.68		1012.7	28.85		1012.7	28.85						
		No.50 (300µm), g	21	1161.4	18.40		1160.0	18.50		1160.0	18.50						
		No.100 (150µm), g	8	1328.3	6.67		1327.1	6.77		1327.1	6.77						
		No.200 (75µm), g	4.2	1370.9	3.66		1369.8	3.77		1369.8	3.77						
		Wt of Mat'l. In Pan, g	5.3				8.9										
		Gmm	SUBLOT 1		SUBLOT 2		SUBLOT 3		SUBLOT 4								
Performed By:																	
Flask No.:	1		2	1	2	1	2	1	2								
Wt of Flask + Sample	2042.6		2012.5	2047.3	2018.8	2049.3	2020.0										
Wt of Flask	1025.0		997.1	1025.2	997.3	1025.3	997.4										
Wt of Sample	1017.6		1015.4	1022.1	1021.5	1024.0	1022.6										
Wt of Flask + Water	3357.8		3335.8	3357.8	3335.8	3357.8	3335.8										
Wt of Flask + Water + Sample	3966.0		3941.8	3969.3	3946.0	3970.1	3947.0										
Wt of Sample Surface Dry																	
Gmm	2.486		2.480	2.489	2.484	2.487	2.486										
Difference	0.006		0.005		0.001												
Average Gmm	2.483		2.487		2.487												
Dry Back	Pan No.:	1	2	1	2	1	2	1	2								
	Pan Weight:																
	1st Weight:																
	2nd Weight:																
	3rd Weight:																
	4th Weight:																
	5th Weight:																
	6th Weight:																
	7th Weight:																
Lab Gmb	Performed By:																
	Pill # 1	4784.5	2786.2	4788.1	2390	4791.1	2799.7	4794.5	2402	4789.1	2789.8	4797.2	2386				
	Pill # 2	4795.2	2792.9	4799.1	2390	4792.0	2795.1	4794.6	2397	4801.7	2792.2	4804.7	2386				
	Pill # 3																
	Average Gmb	2.390				2.400				2.386							
	Average Unit Wt.	149.1				149.6				148.9							
	Height @ Ini	Height @ Deg.				Height @ Ini				Height @ Deg.							
	Pill # 1	122				115.1				122				115.0			
	Pill # 2	123				115.6				122				115.2			
	Pill # 3																
Average	123				115.4				122				115.2				
Roadway Gmb	Performed By:																
	Mat Cores	DRY	Water	SSD	Gmb	VMA	15.1	Sublot #1	15.73	Voids	3.5	Sublot #1	3.75				
	Core # 1	2303.6	1320.6	2305.0	2.340			Sublot #2	15.38			Sublot #2	3.50				
	Core # 2	1988.8	1151.4	1989.4	2.373			Sublot #3	15.89			Sublot #3	4.06				
	Core # 3	2319.1	1343.2	2320.2	2.374			Sublot #4				Sublot #4					
	Core # 4					Average:	15.67	Average:	3.77								
	Average Gmb	2.362				Comments:											
	% Compaction	95.02															
	Performed By:																
	Joint Cores	DRY	Water	SSD	Gmb												
Core # 1	2061.1	1174.6	2068.7	2.305													
Core # 2	2127.5	1193.6	2130.4	2.271													
Core # 3	2064.8	1165.3	2071.0	2.280													
Core # 4																	
Average Gmb	2.285																
% Compaction	91.93																

2486

Client: Kimley-Horn
 Project Name: Avon Park FBO Terminal - Apron Rehab
 Project No.: 6111-22-111

Producer: Ajax Paving Industries
 Mix Type: P-401
 Mix Design:



7351 Temple Terrace Highway
 Tampa, Florida 33637
 813-989-1354 / 813-989-1355

Lot #02 03/09/23

Item P-401-SP Plant Mix Bituminous Pavements - Summary

DATE	LOT #	Field				Laboratory			
		% Mat Density (Average)	Mat Density (Spec)	% Joint Density (Average)	Min. % Joint Density (Spec)	% Air Voids (Average)	% Air Voids (Spec)		Tonnage Shipped from Plant
3/9/23	Lot #02	96.03	92	93.04	90.5	3.47	2 - 5		521.27
PWL		100		100		100			

Notes / Comments:

QA Plant: Larry Heitman

Tierra Inc.

P-401 ASPHALTIC CONCRETE - PAYMENT ADJUSTMENTS FOR DENSITIES & AIR VOIDS

Aven Park Executive Airport (AVO)
FBO Terminal - Apron Rehabilitation
6111-22-111

DATE: 3/9/2023

LOCATION:

TEST REPORT:

LOT NUMBER: 2

Lot Mix (Tons)

Mix Price per Ton:

AC Price per Ton:

Lot AC (Tons)

LOT PERCENT PAY:

MIX PAY TONS - 5

AC PAY TONS - 5

106

0.00

0.00

% NOTE Reject material may be accepted at 50% pay

50.00

50.00

JOINT DEN RESULT:

100

= PWL =>

ACCEPTABLE

INPUT DATA IN BOXES

AC CONTENT % SPECIMEN 1

5.65

SPECIMEN 5:

AVERAGE

5.17

%

(MIN 2 SAMPLE SPECIMEN 2)

5.08

SPECIMEN 6:

SPECIMEN 3:

SPECIMEN 4:

ADDITIONAL SUBLOTS

SUBLOT 1 SUBLOT 2 SUBLOT 3 SUBLOT 4 SUBLOT 5 SUBLOT 6 SUBLOT 7 SUBLOT 8

MARSHALL

SAMPLE 1

STABILITY

SAMPLE 2

SAMPLE 3

AVG STABILITY

MARSHALL

SAMPLE 1

FLOW

SAMPLE 2

SAMPLE 3

AVG FLOW:

AIR VOIDS %

SPECIMEN 1

3.07

ok

3.84

ok

3.51

ok

AVG AIR VOIDS

3.07

3.84

3.51

TMD

SPECIMEN 1

2.48

2.48

2.48

ASTM D2726

SPECIMEN 2

ASTM D6752

SPECIMEN 3

AVG TMD (MCT)

2.48

2.48

2.48

"ok" indicates value is NOT and within at 5% significance. "N" indicates outlier

MAT BSG

2.36

ok

2.39

ok

2.38

ok

MAT % DENSITY / SUBLT

95.20

96.65

96.24

AVG TMD / LOT

2.5

NUM OF SAMPLES

3

AVG % DENS FOR LOT

96.0

%

JOINT BSG

2.32

2.30

2.29

MAT % DENSITY FOR SUBLT

93.86

92.69

92.57

AVG % DENS FOR LOT

93.0

%

Reference TMD

2.48

TRUE

Apply Joint Req

LOCATION: 0

LOT NUMBER:

93-100

103

90-93

PWL + 10

70-89

0.125PWL +

40-69

0.75PWL +

base course

below 40

50% or reject

FALSE

96-100

1.06

106

90-95

PWL + 10

75-90

0.5PWL + 55

55-74

1.4PWL - 12

Below 55

50% or Reject

106

FALSE

True uses two sided acceptance criteria

FALSE

0 <= forces 100% pay if leveling course

92

Lower limit for Base Course

93.8

Lower limit for surface density criteria

96

Upper limit for two sided Density criteria

5

Upper limit for Air Content

2

Lower limit for Air Content

90.5

Lower Limit for Joint Density

MAT DENSITY CALCS:

X = 96.03

N = 3

Standard Deviation (S):

0.7492

L: 92.8

U: N/A

Q: 4.1093

PL 100

QU 100

PU 0

PWL: 100

PERCENT PAY: 100%

%

VOID CALCS:

X = 3.47

N = 3

Standard Deviation (S):

0.3863

U: 5

L: 2

QU: 3.9519

QL: 3.8139

PU: 100

PL: 100

PWL: 100

PERCENT PAY: 100%

%

STABILITY CALCS:

X = 88.88

N = 0

Standard Deviation (S):

#DIV/0!

L: NEED INPUT IN CELL C13

Q: #DIV/0!

PWL: 0

FLOW CALCS:

X = 88.88

N = 0

Standard Deviation (S):

#DIV/0!

U: NEED INPUT

L: R

QU: #VALUE!

QL: #DIV/0!

PU: 0

PL: 0

PWL: -100

JOINT DENSITY CALCS:

X = 93.84

N = 3

Standard Deviation (S):

0.7136

L: 96.5

Q: 3.518

PWL: 100

Joint Deduct value

0

Deduct applied directly to pay factor

Ajax Paving Industries of Florida FAA Worksheet

Project Name: Avon Park Airport		Contractor: Ajax Paving Industries		Mix Type: P-401		Max. App. Size: 3/4" max			
Project No: Job # 406122		Plant No: A0108 L. Wales		Aggregate Sp. Gr: 2.681		Mix Design No.: 12.5C-22-8001A			
Header	Terminal Apron Rehab Lot 02	Date	3/9/23	3/9/23	3/9/23				
		Random #							
		Load #	5	9	15				
Asphalt Content	Basket wt., g	4227.5		4227.2					
	Bgn. Basket + Sample wt., g	5757.0		5728.1					
	Bgn. Sample wt., g	1529.5		1500.9					
	End Basket + Sample wt., g	5869.1		5649.1					
	Final Sample wt., g	1441.6		1421.9					
	AC from Print Out, %	5.75		5.18					
	Calibration Factor, %	-0.10		-0.10					
	Des. AC, %	5.4	Calib'd AC, %	5.65					
	Wt. of Extracted Agg., g	1441.3		1420.2					
	Note: Diff. D & G shall not > 0.2% of Final Sample Wt.	0.02		0.12					
	Wt. of Washed Sample, g	1412.9		1387.9					
	Wt. of .75mm Mat'l lost due to Washing, g	28.4		32.3					
Gradation	% Pass Sieves 1" thru #100 = 100 - (Wt. ret'd / Excd Agg. Wt.) * 100 % Pass #200 = (Wt. Of loss due to Wash + Wt ret'd in Pan) / Excd Agg Wt. * 100 Weights are cumulative.	Sieve	Target	Wt Ret	% Pass	Wt Ret	% Pass		
		1" (25.0mm), g			100.00		100.00		
		3/4" (19.0mm), g	100	0.0	100.00	0.0	100.00		
		1/2" (12.5mm), g	98	24.8	98.28	38.3	97.44		
		3/8" (9.5mm), g	87	144.6	89.97	219.1	84.57		
		No. 4 (4.75mm), g	64	462.3	87.92	566.1	60.14		
		No. 8 (2.36mm), g	49	723.3	49.82	735.8	48.19		
		No. 16 (1.18mm), g	36	902.7	37.37	931.5	34.41		
		No. 30 (.600mm), g	28	1029.9	28.54	1038.3	28.89		
		No. 50 (.300mm), g	21	1154.3	19.91	1150.7	18.98		
		No. 100 (.150mm), g	8	1340.5	6.99	1324.2	6.76		
		No. 200 (.075mm), g	4.2	1393.7	3.27	1375.8	3.11		
Wt of Mat'l. in Pan, g		18.7		11.9					
Gmm	SUBLOT 1		SUBLOT 2		SUBLOT 3		SUBLOT 4		
	Performed By:								
	Flask No.:	1	2	1	2	1	2	1	2
	Wt of Flask + Sample	2075.9	2007.6	2033.8	2002.5	2023.1	2012.7		
	Wt of Flask	1024.5	997.0	1024.9	997.1	1009.6	996.8		
	Wt of Sample	1051.4	1010.6	1008.9	1005.4	1013.5	1015.9		
	Wt of Flask + Water	3357.8	3335.8	3357.8	3335.8	3343.7	3335.8		
	Wt of Flask + Water + Sample	3984.2	3938.7	3959.3	3935.1	3947.8	3942.0		
	Wt of Sample Surface Dry								
	Gmm	2.474	2.479	2.476	2.476	2.476	2.480		
Difference	0.005		0.000		0.004				
Average Gmm	2.477		2.476		2.478				
Dry Back	Pan No.:	1	2	1	2	1	2	1	2
	Pan Weight:								
	1st Weight:								
	2nd Weight:								
	3rd Weight:								
	4th Weight:								
	5th Weight:								
	6th Weight:								
	7th Weight:								
	8th Weight:								
Lab Gmb	Performed By:								
	Pill # 1	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb
	Pill # 2	4798.4	2800.4	4801.2	2.398	4800.5	2792.5	4804.9	2.385
	Pill # 3	4797.1	2804.6	4801.2	2.403	4797.2	2784.5	4802.6	2.377
	Average Gmb								
	Average Unit Wt.								
	Height @ Ini								
	Height @ Deg.								
	Pill # 1	122.7		115.0		123.4		116.1	
	Pill # 2	122.7		115.1		123.0		115.7	
Roadway Gmb	Performed By:								
	Mat Cores	Dry	Water	SSD	Gmb	Average	STDEV	QL	PL
	Core # 1	2378.4	1371.8	2380.4	2.358	AIR VOIDS	3.47	0.39	3.774
	Core # 2	2723.5	1586.8	2724.8	2.393	MAT DENSITY	95.99	0.74	4.311
	Core # 3	2050.1	1195.8	2060.2	2.382	JOINT DENSITY	93.02	0.71	3.543
	Core # 4					Air Void Target	2.0	5.0	
	Average Gmb					Mat Density Target	92.8	JO Target	90.5
	Average % Compaction								
	Performed By:					Beginning Wt.:		Beginning Wt.:	
	Joint Cores	Dry	Water	SSD	Gmb	Ending Wt.:		Ending Wt.:	
Core # 1	1645.4	938.7	1648.8	2.324	% Moisture:		% Moisture:		
Core # 2	2287.3	1278.8	2262.2	2.295					
Core # 3	2258.2	1278.2	2261.6	2.292					
Core # 4									
Average Gmb									
% Compaction									

2.476

Client: Kimley-Horn
 Project Name: Avon Park FBO Terminal - Apron Rehab
 Project No.: 6111-22-111

Producer: Ajax Paving Industries
 Mix Type: P-401
 Mix Design:



7351 Temple Terrace Highway
 Tampa, Florida 33637
 813-989-1354 / 813-989-1355

Lot #03 03/23/23

Item P-401-SP Plant Mix Bituminous Pavements - Summary

		Field				Laboratory		
DATE	LOT #	% Mat Density (Average)	Mat Density (Spec)	% Joint Density (Average)	Min. % Joint Density (Spec)	% Air Voids (Average)	% Air Voids (Spec)	Tonnage Shipped from Plant
3/23/23	Lot #03	94.34	92	91.12	90.5	3.22	2 - 5	699.95
PWL		100		56		100		

Notes / Comments:

QA Plant: Paul Hartbarger

Tierra Inc.

P-401 ASPHALTIC CONCRETE - PAYMENT ADJUSTMENTS FOR DENSITIES & AIR VOIDS

Avon Park Executive Airport (AVO)
FBO Terminal - Apron Rehabilitation
6111-22-111

DATE: 3/23/2023

LOCATION:

TEST REPORT: LOT PERCENT PAY: 101 % NOTE Reject material may be accepted at 50 % pay
LOT NUMBER: 3 MIX PAY TONS - 5 706.95 50.00
Lot Mix (Tons) 699.95 AC PAY TONS - 5 38.80 50.00

Min Price per Ton:

AC Price per Ton:

Lot AC (Tons) 37.62 JOINT DEN. RESULT: 56 = PWL=> Stop Production, 5% deduct will apply

INPUT DATA IN BOXES

AC CONTENT % SPECIMEN 1: 5.49 SPECIMEN 5: AVERAGE: 5.38 %
(MIN 2 SAMPLE) SPECIMEN 2: 5.26 SPECIMEN 6:
SPECIMEN 3: SPECIMEN 7:
SPECIMEN 4: SPECIMEN 8:

----- ADDITIONAL SUBLOTS -----

SUBLOT 1 SUBLOT 2 SUBLOT 3 SUBLOT 4 SUBLOT 5 SUBLOT 6 SUBLOT 7 SUBLOT 8

MARSHALL

STABILITY

SAMPLE 1
SAMPLE 2
SAMPLE 3

AVO STABILITY:

MARSHALL

FLOW

SAMPLE 1
SAMPLE 2
SAMPLE 3

AVO FLOW:

"nd" indicates value is NOT and outlier at 5% significance. "x" indicates outlier

AIR VOIDS %

SAMPLE 1: 3.05 nd 3.21 nd 3.41 nd
SPECIMEN 2:
SPECIMEN 3:

AVO AIR VOIDS:

3.05 3.21 3.41
3.05 3.21 3.41

TMD

ASTM D2726

ASTM D6752

SAMPLE 1: 2.46 2.46 2.47
SPECIMEN 2:
SPECIMEN 3:

AVG TMD (#CF):

2.46 2.46 2.47
2.46 2.46 2.47

"nd" indicates value is NOT and outlier at 5% significance. "x" indicates outlier

MAT BSG

2.22 nd 2.33 x 2.32 nd

MAT % DENSITY / SUBLOT:

94.34 94.72 93.96

AVG TMD / LOT:

2.5

NUM OF SAMPLES 3

AVG % DENS. FOR LOT:

94.3 %

JOINT BSG

2.28 2.15 2.30

JOINT % DENSITY FOR SUBLOT:

92.57 87.41 93.38

AVG % DENS. FOR LOT:

91.1 %

Reference TMD

2.46

TRUE Apply Joint Req

LOCATION: 0

LOT NUMBER:

93-100 103

90-93 PWL + 10

70-89 0.125PWL +

40-69 0.75PWL +

base course

FALSE

below 40 50% or reject

96-100 1.06

90-95 PWL + 10

75-90 0.5PWL + 55

55-74 1.4PWL - 12

Below 55 50% or Reject

106

FALSE

True uses two sided acceptance criteria

0 <- forces 100% pay if leveling course

92 Lower limit for Base Course

92.8 Lower limit for surface density criteria

96 Upper limit for two sided Density criteria

5 Upper limit for Air Content

2 Lower limit for Air Content

90.5 Lower Limit for Joint Density

MAT DENSITY CALCS:

X= 94.34 N: 3

Standard Deviation (S): 0.1804

L: 92.8 U: N/A

Q: 4.0238 QU: n/a PU: n/a

PWL: 100 PU: 0

PERCENT PAY:

94.3 %

VOID CALCS:

X= 3.22 N: 3

Standard Deviation (S): 0.1804

L: 2 U: 5

Q: 9.8501 QU: 6.7824 PL: 100

PWL: 100 PL: 100

PERCENT PAY:

94.3 %

STABILITY CALCS:

X= ##### N: 0

Standard Deviation (S): #DIV/0!

L: NEED INPUT IN CELL C13

Q: #DIV/0!

PWL: 0

FLOW CALCS:

X= ##### N: 0

Standard Deviation (S): #DIV/0!

L: 8 U: NEED INPUT

Q: #VALUE! QU: #DIV/0!

PWL: 0 PL: 0

JOINT DENSITY CALCS:

X= 91.13 N: 3

Standard Deviation (S): 3.2383

L: 90.5

Q: 0.191

PWL: 56

Joint Deduct value 5 Deduct applied directly to pay factor

P-401 SP Worksheet

Project Name: Avon Park Airpori		Contractor: Ajax Paving Ind., Inc.		Mix Type: P-401		Max. Agg. Size: 3/4" max												
Project No.: Job # 406122		Plant No.: A0108-Lake Wales		Aggregate Sp. Gr. 2.681		Mix Design No.: #12 5C-22-88001A												
Header	Terminal Apron Rehab	Lot	3	Sub	1	Lot	3	Sub	2	Lot	3	Sub	3	Lot	3	Sub	4	
	75 gyrations	Date	3/23/23			Date	3/23/23			Date	3/23/23							
		Random #				Random #				Random #								
		Load #	2			Load #	4			Load #	19							
Asphalt Content	Basket wt., g	4226.9					4198.8											
	Bgn. Basket + Sample wt., g	5779.7					5746.5											
	Bgn. Sample wt., g	1550.8					1547.7											
	End Basket + Sample wt., g	5893.3					5861.0											
	Final Sample wt., g	1464.4					1482.2											
	AC from Print Out, %	5.59					5.38											
	Calibration Factor, %	-0.10					-0.10											
	Des. AC, %	5.4					5.28											
	Calib'd AC, %	5.49					1459.8											
	Wt. of Extracted Agg., g	1463.1					0.16											
	Note: Diff. D & G shall not > 0.2% of Final Sample Wt.	0.09					1430.9											
	Wt. of Washed Sample, g	1435.8					28.9											
Wt of - 75um Mat'l lost due to Washing, g	27.3																	
Gradation	Sieve	Target	Wt Rel	% Pass			Wt Rel	% Pass										
	1" (25.0mm), g	100	100.0	100.00			100	100.00										
	3/4" (19.0mm), g	100	0.0	100.00			0.0	100.00										
	1/2" (12.5mm), g	98	59.1	95.98			37.6	97.42										
	3/8" (9.5mm), g	87	183.1	87.49			486.7	66.68										
	No. 4 (4.75mm), g	64	555.4	62.04			581.2	60.19										
	No. 8 (2.36mm), g	49	765.8	47.68			793.4	45.85										
	No. 16 (1.18mm), g	36	926.8	36.66			945.3	35.24										
	No. 30 (600µm), g	28	1053.7	27.98			1063.5	27.15										
	No. 50 (300µm), g	21	1191.8	18.54			1192.4	18.32										
	No. 100 (150µm), g	8	1373.5	6.12			1368.8	6.23										
	No. 200 (75µm), g	4.2	1422.4	2.84			1417.1	2.86										
Wt of Mat'l. In Pan, g		14.2				12.9												
Gmm	Performed By:	SUBLOT 1		SUBLOT 2		SUBLOT 3		SUBLOT 4										
	Flask No.:	1	2	1	2	1	2	1	2									
	Wt of Flask + Sample	2024.2	2007.2	2019.3	2009.6	2060.2	2041.0											
	Wt of Flask	1009.1	995.2	1011.2	997.6	1008.2	995.5											
	Wt of Sample	1015.1	1012.0	1008.1	1012.0	1052.0	1045.5											
	Wt of Flask + Water	3343.7	3335.8	3343.7	3335.8	3343.7	3335.8											
	Wt of Flask + Water + Sample	3945.6	3935.7	3942.8	3937.0	3969.7	3956.9											
	Wt of Sample Surface Dry																	
	Gmm	2.457	2.456	2.464	2.463	2.469	2.463											
	Difference	0.001		0.001		0.006												
	Average Gmm	2.457		2.464		2.466												
	Dry Back	Pan No.:	1	2	1	2	1	2	1	2								
Pan Weight:																		
1st Weight:																		
2nd Weight:																		
3rd Weight:																		
4th Weight:																		
5th Weight:																		
6th Weight:																		
7th Weight:																		
8th Weight:																		
Lab Gmb		Performed By:																
	Pill # 1	4796.9	2766.7	4800.7	2.384	4793.7	2783.6	4799.0	2.380	4797.9	2785.4	4802.9	2.378					
	Pill # 2	4801.1	2767.8	4805.5	2.379	4806.1	2798.3	4810.1	2.390	4804.6	2782.8	4808.8	2.385					
	Pill # 3																	
	Average Gmb	2.382		2.385		2.382												
	Average Unit Wt.	148.6		148.8		148.6												
	Height @ Ini																	
	Height @ Deg.																	
	Pill # 1	122.8		115.8		123.7		116.5		123.8		116.4						
	Pill # 2	123.8		116.5		123.3		116.1		123.7		116.2						
	Pill # 3																	
	Average	123.3		116.2		123.5		116.3		123.8		116.3						
Roadway Gmb	Performed By:																	
	Mat Cores	DRY	Water	SSD	Gmb													
	Core # 1	1373.2	781.8	1374.2	2.318	AIR VOIDS	3.22	0.18	8.787	100	9.8798	100	100	106				
	Core # 2	1891.0	1082.3	1892.5	2.334	MAT DENSITY	94.34	0.39	3.952	100	14.509	100	100	106				
	Core # 3	1626.1	868.9	1627.5	2.317	JOINT DENSITY	91.09	3.24	0.183	56	2.7492	100	56	67				
	Core # 4																	
	Average Gmb	2.323																
	% Compaction	91.09																
	Performed By:																	
	Joint Cores																	
	Core # 1	1817.3	1022.4	1819.7	2.279	Beginning Wt.:			Beginning Wt.:									
	Core # 2	1439.8	774.1	1443.0	2.152	Ending Wt.:			Ending Wt.:									
Core # 3	1509.8	855.7	1512.4	2.299	% Moisture:			% Moisture:										
Core # 4																		
Average Gmb	2.243																	
% Compaction	91.09																	
VMA																		

2.462

Client: Kimley-Horn
 Project Name: Avon Park FBO Terminal - Apron Rehab
 Project No.: 6111-22-111

Producer: Ajax Paving Industries
 Mix Type: P-401
 Mix Design:



7351 Temple Terrace Highway
 Tampa, Florida 33637
 813-989-1354 / 813-989-1355

Lot #03 3/23/2023 - REVISED 3/31/23
Item P-401-SP Plant Mix Bituminous Pavements - Summary

	Field				Laboratory		
	LOT #	% Mat Density (Average)	Mat Density (Spec)	% Joint Density (Average)	Min. % Joint Density (Spec)	% Air Voids (Average)	% Air Voids (Spec)
DATE	Lot #03	94.34	92	93.58	90.5	3.22	2 - 5
3/23/23		100		100		100	
PWL							
							699.95

Notes / Comments: QA Plant: Paul Hartbarger

Tierra Inc.

P-401 ASPHALTIC CONCRETE - PAYMENT ADJUSTMENTS FOR DENSITIES & AIR VOIDS

Avon Park Executive Airport (AVO)
FBO Terminal - Apron Rehabilitation
6111-22-111

DATE: 3/23/2023

LOCATION:

TEST REPORT: LOT PERCENT PAY: 196 % NOTE Reject material may be accepted at 50 % pay
LOT NUMBER: 3 MIX PAY TONS - \$ 741.95 50.00
Lot Mix (Tons) 699.95 AC PAY TONS - \$ 39.88 50.00
Mix Price per Ton:
AC Price per Ton:
Lot AC (Tons) 37.62 JOINT DEN. RESULT: 100 = PWL= ACCEPTABLE

INPUT DATA IN BOXES

AC CONTENT % SPECIMEN 1 5.49 SPECIMEN 3: AVERAGE: 5.38 %
(MIN 2 SAMPLE: SPECIMEN 2 5.26 SPECIMEN 6:
SPECIMEN 3: SPECIMEN 7:
SPECIMEN 4: SPECIMEN 8:

SUBLOT 1 SUBLOT 2 SUBLOT 3 SUBLOT 4 SUBLOT 5 SUBLOT 6 SUBLOT 7 SUBLOT 8

MARSHALL SAMPLE 1
STABILITY SAMPLE 2
SAMPLE 3
AVG STABILITY

MARSHALL SAMPLE 1
FLOW SAMPLE 2
SAMPLE 3
AVG FLOW

"ok" indicates value is NOT and outlier at 5% significance. "x" indicates outlier
SPECIMEN 1 3.05 ok 3.21 ok 3.41 ok
SPECIMEN 2
SPECIMEN 3
AVG AIR VOIDS 3.05 3.21 3.41
3.05 3.21 3.41

TMD SPECIMEN 1 2.46 2.46 2.47
ASTM D2726 SPECIMEN 2
ASTM D6752 SPECIMEN 3
AVG TMD (RCV) 2.46 2.46 2.47
2.46 2.46 2.47

"ok" indicates value is NOT and outlier at 5% significance. "x" indicates outlier
MAT BSG 2.32 ok 2.33 x 2.32 ok
MAT % DENSITY / SUBLOT: 94.34 94.72 93.96

AVG TMD / LOT: 2.5 NUM OF SAMPLES 3
AVG % DENS. FOR LOT: 94.3 %
JOINT BSG 2.28 2.33 2.30
JOINT % DENSITY FOR SUBLOT: 92.57 94.80 93.38
AVG % DENS. FOR LOT: 93.6 % Reference TMD 2.46 TRUE Apply Joint Req

LOCATION: 0 93-100 103
LOT NUMBER: 0 90-93 PWL + 10
70-89 0.125PWL +
40-69 0.75PWL +

MAT DENSITY CALCS:
X= 94.34 N= 3
Standard Deviation (S): 0.3801
L: 92.8
Q: 4.0238 PL 100
PWL 100
PERCENT PAY: 106 %
U: N/A
QU: n/a
PU: 0

VOID CALCS:
X= 3.22 N= 3
Standard Deviation (S): 0.1804
L: 2
Q: 9.8301 QU: 6.7824
PU: 100 PL: 100
PWL: 100
PERCENT PAY: 106 %

STABILITY CALCS:
X= ##### N= 0
Standard Deviation (S): #DIV/0!
L: NEED INPUT IN CELL C13
Q: #DIV/0!
PWL: 0

FLOW CALCS:
X= ##### N= 0
Standard Deviation (S): #DIV/0!
L: NEED INPUT
Q: #VALUE! QU: #DIV/0!
PU: 0 PL: #DIV/0!
PWL: -100

JOINT DENSITY CALCS:
X= 93.58 N= 3
Standard Deviation (S): 1.1307
L: 90.5
Q: 2.726
PWL: 100

Joint Deduct value 0 Deduct applied directly to pay factor

P-401 SP Worksheet

Project Name: Avon Park Airport		Contractor: Ajax Paving Ind., Inc.		Mix Type: P-401		Max. Agg. Size: 3/4" max											
Project No: Job # 408122		Plant No.: A0108-Lake Wales		Aggregate Sp. Gr. 2.681		Mix Design No.: #12.5C-22-88001A											
Header	Terminal Apron Rehab 75 gyrations	Lot	3	Sub	1	Lot	3	Sub	2	Lot	3	Sub	3	Lot	3	Sub	4
		Date	3/23/23			3/23/23			3/23/23								
		Random #															
		Load #	2			4			19								
Asphalt Content	Basket wt., g	4228.9						4198.8									
	Bgn. Basket + Sample wt., g	5779.7						5746.5									
	Bgn. Sample wt., g	1550.8						1547.7									
	End Basket + Sample wt., g	5693.3						5661.0									
	Final Sample wt., g	1484.4						1462.2									
	AC from Print Out, %	5.59						5.36									
	Calibration Factor, %	-0.10						-0.10									
	Des. AC, %	5.4						5.26									
	Calib'd AC, %	5.49						5.26									
	Wt. of Extracted Agg., g	1463.1						1459.8									
	Note: Diff. D & G shall not > 0.2% of Final Sample Wt.	0.09						0.16									
	Wt. of Washed Sample, g	1435.8						1430.9									
Wt of - 75um Mat'l lost due to Washing, g	27.3						28.9										
Gradation	% Pass Sieves 1" thru #100 = 100-(Wt ret'd in Pan) / Extd Agg. Wt. * 100	Sieve	Target	Wt Ret	% Pass	Wt Ret	% Pass										
								1" (25.0mm), g	100	100.00		100.00					
								3/4" (19.0mm), g	100	0.0	100.00		100.00				
								1/2" (12.5mm), g	98	59.1	95.96		97.42				
								3/8" (9.5mm), g	87	183.1	87.49		66.66				
								No.4 (4.75mm), g	64	555.4	62.04		60.19				
								No.8 (2.36mm), g	49	765.8	47.66		45.65				
								No.16 (1.18mm), g	36	928.8	36.66		35.24				
								No.30 (600µm), g	28	1053.7	27.98		27.15				
								No.50 (300µm), g	21	1191.8	18.54		18.32				
								No.100 (150µm), g	8	1373.5	8.12		6.23				
								No.200 (75µm), g	4.2	1422.4	2.84		2.86				
Wt of Mail. in Pan, g		14.2			12.9												
Gmm	SUBLOT 1		SUBLOT 2		SUBLOT 3		SUBLOT 4										
	Performed By:																
	Flask No.:	1	2	1	2	1	2	1	2								
	Wt of Flask + Sample	2024.2	2007.2	2019.3	2009.6	2060.2	2041.0										
	Wt of Flask	1009.1	995.2	1011.2	997.6	1008.2	995.5										
	Wt of Sample	1015.1	1012.0	1008.1	1012.0	1052.0	1045.5										
	Wt of Flask + Water	3343.7	3335.8	3343.7	3335.8	3343.7	3335.8										
	Wt of Flask + Water + Sample	3945.6	3935.7	3942.8	3937.0	3969.7	3956.9										
	Wt of Sample Surface Dry																
	Gmm	2.457	2.456	2.464	2.463	2.469	2.463										
Difference	0.001		0.001		0.006												
Average Gmm	2.457		2.464		2.466												
Dry Back	Pan No.:	1	2	1	2	1	2	1	2								
	Pan Weight:																
	1st Weight:																
	2nd Weight:																
	3rd Weight:																
	4th Weight:																
	5th Weight:																
	6th Weight:																
	7th Weight:																
Lab Gmb	Performed By:																
		Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb								
	Pill # 1	4798.9	2788.7	4800.7	2.384	4793.7	2783.5	4798.0	2.380								
	Pill # 2	4801.1	2787.5	4805.5	2.379	4808.1	2788.3	4810.1	2.390								
	Pill # 3																
	Average Gmb			2.382				2.385									
	Average Unit Wt.			148.6				148.8									
		Height @ Inl	Height @ Deg.			Height @ Inl	Height @ Deg.										
	Pill # 1	122.8	115.8			123.7	116.5										
	Pill # 2	123.8	116.5			123.3	116.1										
Pill # 3																	
Average	123.3	116.2			123.5	116.3											
Roadway Gmb	Performed By:					PAY CALCULATION											
	Mat Cores	DRY	Water	SSD	Gmb	AVERAGE		STDEV	QL	PL	QU	PU	PWL	%PAY			
	Core # 1	1373.2	781.8	1374.2	2.318	AIR VOIDS		3.22	0.18	6.787	100	9.8796	100	100			
	Core # 2	1891.0	1082.3	1892.5	2.334	MAT DENSITY		94.34	0.39	3.952	100	14.509	100	100			
	Core # 3	1526.1	888.9	1527.5	2.317	JOINT DENSITY		92.03	3.22	0.474	66	2.4762	100	66			
	Core # 4																
	Average Gmb			2.323													
	% Compaction			94.34													
	Performed By:					Aggregate Moisture				Mix Moisture							
	Joint Cores	DRY	Water	SSD	Gmb	Beginning Wt.:		Ending Wt.:		Beginning Wt.:		Ending Wt.:					
	Core # 1	1817.3	1022.4	1819.7	2.279	% Moisture:				% Moisture:							
	Core # 2	1439.8	774.1	1443.0	2.152	VMA	Sublot #1		16.03		Voits	Sublot #1		3.05			
	Core # 3	1509.8	855.7	1512.4	2.299		Sublot #2		15.92			Sublot #2		3.21			
	Core # 4	2141.6	1226.9	2144.3	2.334		Sublot #3		15.83			Sublot #3		3.41			
	Average Gmb			2.266			Sublot #4					Sublot #4					
% Compaction			92.03		Average:		15.93		Average:		3.22						

Client: Kimley-Horn
 Project Name: Avon Park FBO Terminal - Apron Rehab
 Project No.: 6111-22-111

Producer: Ajax Paving Industries
 Mix Type: P-401
 Mix Design:



7351 Temple Terrace Highway
 Tampa, Florida 33637
 813-989-1354 / 813-989-1355

Lot #04 03/24/23

Item P-401-SP Plant Mix Bituminous Pavements - Summary

		Field				Laboratory			
DATE	LOT #	% Mat Density (Average)	Mat Density (Spec)	% Joint Density (Average)	Min. % Joint Density (Spec)	% Air Voids (Average)	% Air Voids (Spec)		Tonnage Shipped from Plant
3/24/23	Lot #04	93.88	92	91.77	90.5	3.39	2 - 5		699.95
PWL		100		100		100			

Notes / Comments:

QA Plant: Marquise Williams

Tierra Inc.

P-401 ASPHALTIC CONCRETE - PAYMENT ADJUSTMENTS FOR DENSITIES & AIR VOIDS

Avon Park Executive Airport (AVO)
FBO Terminal - Apron Rehabilitation
6111-23-111

DATE: 3/24/2013

LOCATION:

TEST REPORT: LOT PERCENT PAY: 106 % NOTE Reject material may be accepted at 50 % pay
LOT NUMBER: 4 MIX PAY TONS- 5 0.00 50.00
Lot Mix (Tons): AC PAY TONS- 5 0.00 50.00
Mix Price per Ton:
AC Price per Ton:
Lot AC (Tons) 0.00 JOINT DEN. RESULT: 100 = PWL=> ACCEPTABLE

INPUT DATA IN BOXES

AC CONTENT % SPECIMEN 1: 5.35 SPECIMEN 5: AVERAGE: 5.35 %
(MIN 2 SAMPLE: SPECIMEN 2: 5.75 SPECIMEN 6:
SPECIMEN 3: SPECIMEN 7:
SPECIMEN 4: SPECIMEN 8:

----- ADDITIONAL SUBLOTS -----

SUBLOT 1 SUBLOT 2 SUBLOT 3 SUBLOT 4 SUBLOT 5 SUBLOT 6 SUBLOT 7 SUBLOT 8

MARSHALL STABILITY: SAMPLE 1:
SAMPLE 2:
SAMPLE 3:
AVG STABILITY:

MARSHALL FLOW: SAMPLE 1:
SAMPLE 2:
SAMPLE 3:
AVG FLOW:

AIR VOIDS %: SPECIMEN 1: 2.92 4.10 3.16
SPECIMEN 2:
SPECIMEN 3:
AVG AIR VOIDS: 2.92 4.10 3.16

TMD: SPECIMEN 1: 2.46 2.47 2.47 2.47
ASTM D2726 SPECIMEN 2:
ASTM D6752 SPECIMEN 3:
AVG TMD (AVG): 2.46 2.47 2.47 2.47

MAT BSG: 2.31 2.32 2.32 2.31
MAT % DENSITY / SUBLOT: 93.35 94.16 94.08 93.72

AVG TMD / LOT: 2.5 NUM OF SAMPLES 4
AVG % DENS. FOR LOT: 93.9 %

JOINT BSG: 2.38 2.30 2.26
JOINT % DENSITY FOR SUBLOT: 93.35 93.27 91.57
AVG % DENS. FOR LOT: 92.7 % Reference TMD: 2.47 TRUE Apply Joint Req

LOCATION: 0 93-100 103
LOT NUMBER: 90-93 PWL + 10
70-89 0.125PWL +
40-69 0.75PWL +
below 40 50% or reject

MAT DENSITY CALCS:
X= 93.88 N: 4
Standard Deviation (S): 0.2926
L: 92.8
Q: 3.6798 PL: 100
PWL: 100
PERCENT PAY: 100 %

Base course: FALSE
90-100: 106
90-95: PWL + 10
75-90: 0.5PWL + 55
55-74: 1.4PWL + 12
Below 55: 50% or Reject 106

VOID CALCS:
X= 3.39 N: 3
Standard Deviation (S): 0.6236
L: 2
Q: 2.5763 QU: 2.2343
PU: 100 PL: 100
PWL: 100
PERCENT PAY: 100 %

TRUE uses two sided acceptance criteria
0 <= forces 100% pay if leveling course
91 Lower limit for Base Course
92.8 Lower limit for surface density criteria
96 Upper limit for two sided Density criteria
95 Upper limit for Air Content
92 Lower limit for Air Content
90.5 Lower Limit for Joint Density

STABILITY CALCS:
X= ##### N: 0
Standard Deviation (S): #DIV/0!
L: NEED INPUT IN CELL C13
Q: #DIV/0!
PWL: 0

FLOW CALCS:
X= ##### N: 0
Standard Deviation (S): #DIV/0!
L: NEED INPUT
Q: #VALUE! QU: #DIV/0!
PU: 0 PL: 0
PWL: -100

JOINT DENSITY CALCS:
X= 92.73 N: 3
Standard Deviation (S): 1.0076
L: 90.5
Q: 2.211
PWL: 100

Joint Deduct value: 0 Deduct applied directly to pay factor

Supperpave Worksheet

Project Name: Avon Park Airport		Contractor: AJAX		Mix Type: 12.5 SP		Max. Agg. Size: 12.5mm			
Project No: 6111-22-111		Plant No.: A0108		Aggregate Sp. Gr. 2.681		Mix Design No.: 22-88001A			
Header	Date	3/24/23		3/24/23		3/24/23			
	Random #								
	Load #	3		7		11			
Asphalt Content	Basket wt., g	4227.6				4198.9			
	Bgn. Basket + Sample wt., g	5757.7				5755.9			
	Bgn. Sample wt., g	1529.9				1557.0			
	End Basket + Sample wt., g	5675.1				5673.2			
	Final Sample wt., g	1447.3				1474.3			
	AC from Print Out, %	5.45				5.85			
	Calibration Factor, %	-0.10				-0.10			
	Des. AC, %	5.4				5.75			
	Calib'd AC, %	5.35				5.75			
	Wt. of Extruded Agg., g	1441.4				1464.5			
Note: Diff. D & G shall not > 0.2% of Final Sample Wt.	0.41				0.66				
Wt. of Washed Sample, g	1406.5				1427.1				
Wt of - 75um Mat lost due to Washing, g	34.9				37.4				
Gradation	% Pass Sieves 1" thru #100 = 100% (Wt. ret'd / Ext'd Agg. Wt.) * 100								
	% Pass #200 = (Wt. Of loss due to Wash + Wt ret'd in Pan) / Ext'd Agg. Wt. * 100								
	Sieve	Target	Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass	
	1" (25.0mm), g	100	0.0	100			0.0	100	
	3/4" (19.0mm), g	100	0.0	100			0.0	100	
	1/2" (12.5mm), g	98	42.8	97.03			38.5	97.37	
	3/8" (9.5mm), g	87	181.4	87.42			165.4	88.71	
	No. 4 (4.75mm), g	64	570.8	60.40			527.5	63.98	
	No. 8 (2.36mm), g	49	771.8	46.45			750.5	48.75	
	No. 16 (1.18mm), g	36	922.7	35.99			919.8	37.19	
No. 30 (600µm), g	28	1043.6	27.60			1052.9	28.11		
No. 50 (300µm), g	21	1176.8	18.36			1198.8	18.14		
No. 100 (150µm), g	8	1348.8	6.42			1369.4	6.49		
No. 200 (75µm), g	4.2	1398.3	2.99			1417.3	3.43		
Wt of Mat. in Pan, g	8.2					12.9			
Gmm	Sublot 1	Sublot 2		Sublot 3		Sublot 4			
	Performed By:								
	Flask No.:	1	2	1	2	1	2		
	Wt of Flask + Sample	2018.8	2005.7	2020.5	2007.5	2056.8	2042.6		
	Wt of Flask	1008.8	994.8	1009.8	995.7	1009.2	994.7		
	Wt of Sample	1010.0	1010.9	1010.9	1011.8	1047.6	1047.9		
	Wt of Flask + Water	3343.7	3335.8	3343.7	3335.8	3343.7	3335.8		
	Wt of Flask + Water + Sample	3945.5	3934.7	3946.4	3935.6	3968.8	3958.6		
	Wt of Sample Surface Dry								
	Gmm	2.474	2.454	2.476	2.456	2.468	2.465		
Difference	0.020		0.020		0.003				
Average Gmm	2.464		2.466		2.467				
Dry Back	Pan No.:	1	2	1	2	1	2		
	Pan Weight:								
	1st Weight:								
	2nd Weight:								
	3rd Weight:								
	4th Weight:								
	5th Weight:								
	6th Weight:								
	7th Weight:								
	8th Weight:								
Lab Gmb	Performed By:								
	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	
	Pill # 1	4797.5	2792.6	4800.1	2.390	4794.5	2781.0	4798.6	2.376
	Pill # 2	4800.6	2792.6	4798.5	2.393	4799.1	2787.4	4805.8	2.354
	Pill # 3								
	Average Gmb	2.392		2.365		2.389			
	Average Unit Wt.	149.3		147.6		149.1			
	Height @ Ini	Height @ Deg.		Height @ Ini		Height @ Deg.			
	Pill # 1	122	115.4	124	116.5	124	116.0		
	Pill # 2	123	115.9	126	117.5	124	116.0		
Pill # 3									
Average	123	115.7	124	117.0	124	116.0			
Roadway Gmb	Performed By:								
	Mat Cores	DRY	Water	SSD	Gmb	VMA	15.1	Voids	3.5
	Core # 1	1425.1	808.3	1426.5	2.305	Sublot #1	15.55	Sublot #1	2.92
	Core # 2	1818.1	922.6	1819.5	2.322	Sublot #2	16.51	Sublot #2	4.10
	Core # 3	2047.7	1168.9	2049.2	2.321	Sublot #3	16.02	Sublot #3	3.16
	Core # 4	2050.3	1164.8	2051.7	2.312	Sublot #4		Sublot #4	
	Average Gmb	2.315				Average:	16.02	Average:	3.39
	% Compaction	93.88							
	Performed By:								
	Joint Cores	DRY	Water	SSD	Gmb				
Core # 1	1767.0	1004.9	1772.5	2.302					
Core # 2	1817.4	1004.6	1819.6	2.230					
Core # 3	1853.4	1037.2	1858.0	2.258					
Core # 4									
Average Gmb	2.263								
% Compaction	91.77								

2.464

Client: Kimley-Horn

Project Name: Avon Park FBO Terminal - Apron Rehab

Project No.: 6111-22-111

Producer: Ajax Paving Industries

Mix Type: P-401

Mix Design:



7351 Temple Terrace Highway

Tampa, Florida 33637

813-989-1354 / 813-989-1355

Lot #05 04/13/23

Item P-401-SP Plant Mix Bituminous Pavements - Summary

DATE	LOT #	Field				Laboratory			
		% Mat Density (Average)	Mat Density (Spec)	% Joint Density (Average)	Min. % Joint Density (Spec)	% Air Voids (Average)	% Air Voids (Spec)		Tonnage Shipped from Plant
4/13/23	Lot #05	93.74	92.8	92.29	90.5	3.85	2 - 5		323.16
PWL		87		78		100			

Notes / Comments:

QA Plant: Marquise Williams

Tierra Inc.

P-401 ASPHALTIC CONCRETE - PAYMENT ADJUSTMENTS FOR DENSITIES & AIR VOIDS

Avon Park Executive Airport (AVO)
FBO Terminal - Apron Rehabilitation
6111-22-111

DATE: 4/13/2023

LOCATION:

TEST REPORT:

LOT NUMBER:

Lot Mix (Tons)

Mix Price per Ton:

AC Price per Ton:

Lot AC (Tons)

LOT PERCENT PAY:

MIX PAY TONS - \$

AC PAY TONS - \$

104.41

0.00

0.00

% NOTE Reject material may be accepted at 50 % pay

\$0.00

\$0.00

JOINT DEN. RESULT:

78

= PWL=>

STOP PRODUCTION

INPUT DATA IN BOXES

AC CONTENT % SPECIMEN 1

(MIN 2 SAMPLE: SPECIMEN 2)

SPECIMEN 3

SPECIMEN 4

5.36

5.39

SPECIMEN 3:

SPECIMEN 4:

SPECIMEN 7:

SPECIMEN 8:

AVERAGE:

5.38 %

----- ADDITIONAL SUBLOTS -----

SUBLOT 1 SUBLOT 2 SUBLOT 3 SUBLOT 4 SUBLOT 5 SUBLOT 6 SUBLOT 7 SUBLOT 8

MARSHALL

STABILITY

SAMPLE 1

SAMPLE 2

SAMPLE 3

AVG STABILITY:

MARSHALL

FLOW

SAMPLE 1

SAMPLE 2

SAMPLE 3

AVG FLOW:

*"ok" indicates value is NOT and outlier at 5% significance. "X" indicates outlier

AIR VOIDS %

SAMPLE 1

SAMPLE 2

SAMPLE 3

AVG AIR VOIDS

3.91

4.06

3.59

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TMD

SAMPLE 1

SAMPLE 2

SAMPLE 3

AVG TMD (MCT)

2.48

2.49

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MAT BSG

SAMPLE 1

SAMPLE 2

SAMPLE 3

AVG TMD / LOT

2.35

2.31

2.32

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JOINT BSG

SAMPLE 1

SAMPLE 2

SAMPLE 3

AVG % DENS. FOR LOT

2.26

2.35

2.27

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LOCATION: 0

OT NUMBER:

93-100 103

90-93 PWL + 10

70-89 0.125PWL +

Supperpave Worksheet

Project Name: Avon Park Airport		Contractor: Ajax Paving Ind. Inc		Mix Type: P-401		Max. Agg. Size: 3/4" max							
Project No: 6111-22-111		Plant No.: A0108		Aggregate Sp. Gr. 2.681		Mix Design No.: 22-88001A							
Header	Lot	5	Sub	1	5	2	5						
	Date	4/13/23		4/13/23		4/13/23							
	Random #												
	Load #	6		6		10							
Asphalt Content	Basket wt., g	4200.6				4227.4							
	Bgn. Basket + Sample wt., g	5729.3				5798.1							
	Bgn. Sample wt., g	1528.7				1570.7							
	End Basket + Sample wt., g	5646.3				5712.8							
	Final Sample wt., g	1445.7				1485.4							
	AC from Print Out, %	5.46				5.49							
	Calibration Factor, %	-0.10				-0.10							
	Des. AC, %	5.4				5.39							
	Calib'd AC, %	5.36				5.39							
	Wt. of Extracted Agg., g	1445.5				1485.1							
	Note: Diff. D & G shall not > 0.2% of Final Sample Wt.	0.01				0.02							
	Wt. of Washed Sample, g	1403.1				1434.2							
Wt of - 75um Mat'l lost due to Washing, g	42.4				50.9								
Gradation	Sieve	Target	Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass					
	1" (25.0mm), g			100		100		100					
	3/4" (19.0mm), g	100		100		100		100					
	1/2" (12.5mm), g	98	33.3	97.70			19.4	98.69					
	3/8" (9.5mm), g	87	169.1	88.30			148.1	90.03					
	No. 4 (4.75mm), g	64	517.2	64.22			500.0	66.33					
	No. 8 (2.36mm), g	49	756.6	47.66			755.1	49.15					
	No. 16 (1.18mm), g	36	934.2	35.37			944.3	36.42					
	No. 30 (600 µm), g	28	1058.4	26.92			1075.9	27.55					
	No. 50 (300 µm), g	21	1180.4	18.34			1210.4	18.50					
	No. 100 (150 µm), g	8	1357.8	6.07			1377.4	7.25					
	No. 200 (75 µm), g	4.2	1398.0	3.29			1427.1	3.91					
Wt of Mat'l. in Pan, g		5.1				7.1							
Gmm	SUBLOT 1		SUBLOT 2		SUBLOT 3		SUBLOT 4						
	Performed By:	John Hall		John Hall		John Hall							
	Flask No.:	1	2	1	2	1	2	1	2				
	Wt of Flask + Sample	2028.9	2016.6	2060.7	2050.0	2027.1	2018.1						
	Wt of Flask	1007.2	993.6	1007.4	993.7	1007.5	993.7						
	Wt of Sample	1019.7	1023.0	1053.3	1056.3	1019.6	1024.4						
	Wt of Flask + Water	3343.9	3334.2	3343.9	3334.2	3343.9	3334.2						
	Wt of Flask + Water + Sample	3952.8	3943.8	3974.0	3965.4	3951.7	3944.9						
	Wt of Sample Surface Dry												
	Gmm	2.482	2.475	2.489	2.485	2.476	2.476						
	Difference	0.007		0.004		0.000							
	Average Gmm	2.479		2.487		2.476							
Dry Back	Pan No.:	1	2	1	2	1	2	1	2				
	Pan Weight:												
	1st Weight:												
	2nd Weight:												
	3rd Weight:												
	4th Weight:												
	5th Weight:												
	6th Weight:												
	7th Weight:												
	8th Weight:												
	Performed By:												
	Lab Gmb		Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD
Pill # 1		4795.3	2785.0	4798.6	2.381	4797.1	2789.3	4800.1	2.386	4800.1	2792.3	4803.0	2.387
Pill # 2		4800.1	2798.3	4803.5	2.382	4798.2	2789.5	4800.3	2.385	4802.6	2793.8	4805.8	2.387
Pill # 3													
Average Gmb		2.382				2.386				2.387			
Average Unit Wt.		148.6				148.9				148.9			
		Height @ Ini	Height @ Deg	Height @ Ini	Height @ Deg	Height @ Ini	Height @ Deg	Height @ Ini	Height @ Deg				
Pill # 1		123	115.8	123	115.8	123	115.8						
Pill # 2		124	116.2	124	116.1	124	116.2						
Pill # 3													
Average		124	116.0	123	116.0	124	116.0						
Roadway Gmb		Performed By:	John Hall										
	Mat Cores	DRY	Water	SSD	Gmb								
	Core # 1	1852.6	1085.1	1854.2	2.348	VMA	15.1	Sublot #1	15.91	Voids	2.49	Sublot #1	3.91
	Core # 2	2099.0	1193.6	2101.8	2.312			Sublot #2	15.77			Sublot #2	4.06
	Core # 3	2087.9	1187.3	2089.0	2.318			Sublot #3	15.76			Sublot #3	3.59
	Core # 4							Average	15.82			Average	3.85
	Average Gmb	2.325											
	% Compaction	93.72											
	Performed By:	John Hall											
	Joint Cores	DRY	Water	SSD	Gmb								
	Core # 1	1784.7	997.8	1788.6	2.258								
	Core # 2	1420.2	815.7	1420.9	2.347								
Core # 3	1789.8	1001.9	1791.9	2.260									

Client: Kimley-Horn

Project Name: Avon Park FBO Terminal - Apron Rehab

Project No.: 6111-22-111

Producer: Ajax Paving Industries

Mix Type: P-401

Mix Design:



7351 Temple Terrace Highway

Tampa, Florida 33637

813-989-1354 / 813-989-1355

Lot #06 04/14/23

Item P-401-SP Plant Mix Bituminous Pavements - Summary

DATE	LOT #	Field				Laboratory		
		% Mat Density (Average)	Mat Density (Spec)	% Joint Density (Average)	Min. % Joint Density (Spec)	% Air Voids (Average)	% Air Voids (Spec)	Tonnage Shipped from Plant
4/14/23	Lot #06	95.41	92.8	94.07	90.5	4.15	2 - 5	352.50
PWL		100		100		100		

Notes / Comments:

QA Plant: Marquise Williams

Tierra Inc.

P-401 ASPHALTIC CONCRETE - PAYMENT ADJUSTMENTS FOR DENSITIES & AIR VOIDS

Avon Park Executive Airport (AYO)
FBO Terminal - Apron Rehabilitation
6111-22-111

DATE 4/14/2023

LOCATION

TEST REPORT: LOT PERCENT PAY: 106 % NOTE Reject material may be accepted at 50% pay
LOT NUMBER: 6 MIX PAY TONS - \$ 373.65 \$0.00
Lot Mix (Tons) 352.50 AC PAY TONS - \$ 19.71 \$0.00
Mix Price per Ton:
AC Price per Ton:
Lot AC (Tons) 18.59 JOINT DEN. RESULT: 100 = PWL > ACCEPTABLE

INPUT DATA IN BOXES

AC CONTENT % SPECIMEN 1: 5.30 SPECIMEN 3: AVERAGE: 5.28 %
(MIN 2 SAMPLE: SPECIMEN 2: 5.25 SPECIMEN 4:
SPECIMEN 3: SPECIMEN 7:
SPECIMEN 4: SPECIMEN 8:

ADDITIONAL SUBLOTS

SUBLOT 1 SUBLOT 2 SUBLOT 3 SUBLOT 4 SUBLOT 5 SUBLOT 6 SUBLOT 7 SUBLOT 8

MARSHALL STABILITY

SAMPLE 1
SAMPLE 2
SAMPLE 3
AVG STABILITY:

MARSHALL FLOW

SAMPLE 1
SAMPLE 2
SAMPLE 3
AVG FLOW:

AIR VOIDS %
SPECIMEN 1: 4.32 ok 4.08 ok 4.04 ok
SPECIMEN 2:
SPECIMEN 3:
AVG AIR VOIDS 4.32 4.08 4.04
4.32 4.08 4.04

TMD
ASTM D2726 SPECIMEN 1: 2.48 2.48 2.48
SPECIMEN 2:
SPECIMEN 3:
AVG TMD (#KCF) 2.48 2.48 2.48
2.48 2.48 2.48

MAT BSG
2.36 ok 2.37 ok 2.35 ok
MAT % DENSITY / SPECIMEN LOT: 95.23 95.92 95.07

AVG TMD / LOT: 2.5 NUM OF SAMPLES 3
AVG % DENS. FOR LOT: 95.4 %

JOINT DSG
2.33 2.33 2.32
JOINT % DENSITY FOR SUBLOT: 94.26 94.14 93.82
AVG % DENS. FOR LOT: 94.1 % Reference TMD 2.48 TRUE Apply Joint Req

LOCATION 0 93-100 103
LOT NUMBER: 90-93 PWL + 10
70-89 0.125 PWL +
40-69 0.75 PWL +
below 40 50% or reject

MAT DENSITY CALCS:
X= 95.41 N: 3
Standard Deviation (S): 0.4498
L: 92.8 U: N/A
Q: 5.7285 PL: 100 QU: N/A
PWL: 100 PU: 0
PERCENT PAY: 100 %

base course
FALSE 96-100 1.06 106
90-95 PWL + 10
75-90 0.5 PWL + 35
55-74 1.4 PWL - 12
Below 55 50% or Reject 106

VOID CALCS:
X= 4.15 N: 3
Standard Deviation (S): 0.1514
L: 3.9 U: 4.4
QU: 5.6349 QL: 14.1753
PU: 100 PL: 100
PWL: 100
PERCENT PAY: 100 %

True uses two sided acceptance criteria
FALSE 0 <= forces 100% pay if leveling course
92 Lower limit for Base Course
92.8 Lower limit for surface density criteria
96 Upper limit for two sided density criteria
5 Upper limit for Air Content
2 Lower limit for Air Content
90.5 Lower Limit for Joint Density

STABILITY CALCS:
X= ##### N: 0
Standard Deviation (S): #DIV/0!
L: NEED INPUT IN CELL C13
Q: #DIV/0!
PWL: 0

FLOW CALCS:
X= ##### N: 0
Standard Deviation (S): #DIV/0!
L: NEED INPUT
QU: #VALUE! QL: #DIV/0!
PU: 0 PL: 0
PWL: -100

JOINT DENSITY CALCS:
X= 94.07 N: 3
Standard Deviation (S): 0.2297
L: 90.5 U: 97.6
Q: 15.537
PWL: 100
Joint Deduct value 0 Deduct applied directly to pay factor

Supperpave Worksheet

Project Name: Avon Park Airport		Contractor: Ajax Paving Ind. Inc		Mix Type: P-401		Max. Agg. Size: 3/4" max							
Project No: 6111-22-111		Plant No.: A0108		Aggregate Sp. Gr: 2.681		Mix Design No.: 22-88001A							
Lot: 6		Sub: 1		6		3							
Date: 4/14/23		4/14/23		4/14/23									
Random #													
Load #		3		6		12							
Asphalt Content	Basket wt., g	4201.2		4200.9									
	Bgn. Basket + Sample wt., g	5780.8		5743.7									
	Bgn. Sample wt., g	1579.4		1542.8									
	End Basket + Sample wt., g	5895.9		5661.8									
	Final Sample wt., g	1494.7		1460.9									
	AC from Print Out, %	5.40		5.36									
	Calibration Factor, %	-0.10		-0.10									
	Des. AC, %	5.4		5.26									
	Wt. of Extracted Agg., g	1494.4		1460.7									
	Note: Diff. D & G shall not > 0.2% of Final Sample Wt.	0.02		0.01									
Wt. of Washed Sample, g	1454.4		1419.2										
Wt of - 75um Mat'l lost due to Washing, g	40.0		41.5										
Gradation	Sieve	Target	Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass					
	1" (25.0mm), g			100		100		100					
	3/4" (19.0mm), g	100		100		100		100					
	1/2" (12.5mm), g	98	37.8	97.47		24.6	98.32						
	3/8" (9.5mm), g	87	174.2	88.34		152.8	89.54						
	No. 4 (4.75mm), g	64	531.3	64.45		531.3	63.63						
	No. 8 (2.36mm), g	49	770.3	48.45		762.9	47.77						
	No. 16 (1.18mm), g	36	958.9	35.83		938.3	35.76						
	No. 30 (600µm), g	28	1089.0	27.13		1064.3	27.14						
	No. 50 (300µm), g	21	1233.4	17.47		1194.9	18.20						
No. 100 (150µm), g	8	1409.7	5.67		1380.2	5.51							
No. 200 (75µm), g	4.2	1449.3	3.02		1411.1	3.40							
Wt of Mat'l. in Pan, g		5.1			8.1								
Gmm	SUBLOT 1		SUBLOT 2		SUBLOT 3		SUBLOT 4						
	Performed By:	John Hall		John Hall		John Hall							
	Flask No.:	1	2	1	2	1	2	1	2				
	Wt of Flask + Sample	2031.5	2018.9	2033.6	2017.1	2042.3	2026.1						
	Wt of Flask	1007.1	993.5	1007.2	993.6	1007.5	993.8						
	Wt of Sample	1024.4	1025.4	1026.4	1023.5	1034.8	1032.3						
	Wt of Flask + Water	3343.9	3334.2	3343.9	3334.2	3343.9	3334.2						
	Wt of Flask + Water + Sample	3954.5	3945.0	3955.0	3944.7	3960.8	3949.6						
	Wt of Sample Surface Dry												
	Gmm	2.476	2.473	2.471	2.476	2.476	2.476						
Difference	0.003		0.007		0.000								
Average Gmm	2.475		2.475		2.476								
Dry Back	Pan No.:	1	2	1	2	1	2	1	2				
	Pan Weight:												
	1st Weight:												
	2nd Weight:												
	3rd Weight:												
	4th Weight:												
	5th Weight:												
	6th Weight:												
	7th Weight:												
	8th Weight:												
Lab Gmb	Performed By:												
		Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb
	Pill # 1	4788.9	2775.8	4802.6	2.367	4803.5	2782.0	4805.4	2.374	4798.4	2781.0	4801.1	2.375
	Pill # 2	4800.8	2776.8	4805.5	2.369	4800.9	2781.6	4804.2	2.374	4802.5	2784.2	4805.3	2.376
	Pill # 3												
	Average Gmb	2.368				2.374				2.376			
	Average Unit Wt.	147.8				148.1				148.3			
		Height @ Ini	Height @ Deg.	Height @ Ini	Height @ Deg.	Height @ Ini	Height @ Deg.	Height @ Ini	Height @ Deg.				
	Pill # 1	124	116.8	124	116.2	124	116.4						
	Pill # 2	124	116.8	123	116.0	124	116.4						
Pill # 3													
Average	124	116.8	124	116.1	124	116.4							
Roadway Gmb	Performed By:	John Hall											
	Mal Cores	DRY	Water	SSD	Gmb								
	Core # 1	2220.2	1281.1	2223.1	2.357								
	Core # 2	2148.5	1245.1	2150.2	2.374								
	Core # 3	2071.8	1193.5	2073.7	2.354								
	Core # 4												
	Average Gmb	2.362											
	% Compaction	95.42											
	Performed By:	John Hall											
	Joint Cores	DRY	Water	SSD	Gmb								
Core # 1	2055.6	1177.4	2058.4	2.333									
Core # 2	2112.3	1206.6	2115.4	2.330									
Core # 3	2042.7	1166.4	2046.3	2.322									

2.476

3.5 P-610 Concrete Test Summary

TIERRA

7351 Temple Terrace Highway • Tampa, Florida 33637

Phone: (813) 989-1354 • Fax: (813) 989-1355

Florida Certificate No. 6486

CONCRETE TEST REPORT

CLIENT: Kimely-Horn
655 N. Franklin Street, Suite 150
Tampa, FL 33602

DATE: 2/22/2023
JOB NO: 6111-22-111

PROJECT: Avon Park Executive Airport
FBO Terminal - Apron Rehabilitation
Avon Park, FL

SET NO: 002

FIELD INFORMATION		FIELD TEST DATA		
DATE SAMPLED: 2/15/2023	SAMPLED BY: CQC	GALS WATER ADDED TO		CY
CONCRETE SUPPLIER:	PLANT:	ADD'L WATER AUTH. BY:		
TRUCK NO:	TICKET NO:	MEASURED	SPECIFIED	ASTM METHODS
TIME MIXED:	TIME SAMPLED:	SLUMP (IN.)		ASTM C-143
DESIGN MIX NO:	QUANTITY REP (CY):	AIR CONTENT (%):		ASTM C-231
DESIGN COMP. STR. AT 28 DAYS (PSI): 4000				
DATE REC'D N LAB: 2/21/2023		TEMP CONCRETE (°F)		ASTM C-1064
LOCATION OF POUR:		TEMPERATURE AIR (°F)		
APRON REHABILITATION		UNIT WEIGHT (lb/ft ³)		ASTM C-138
CONCRETE ENCASED ELECTRICAL DUCT		FIELD REMARKS:		
CYLINDERS CAST & INFORMATION SUPPLIED BY CQC				

LABORATORY TEST DATA								
CYL NO.	DATE OF TEST	AGE (DAYS)	LOAD (lbs)	DIAMETER (in.)	AREA (sq. in.)	COMPRESSIVE STRENGTH (psi)	TESTED BY	FRACTURE TYPE
A	2/22/23	7	42,113	4.00	12.57	3351	DT	5
B	3/15/23	28						
C	3/15/23	28						

SAMPLES CURED IN ACCORDANCE WITH ASTM C-31 UNLESS OTHERWISE NOTED

FRACTURE TYPE AS PER ASTM C-39-2021 (1-CONE, 2-CONE/SPLIT, 3-COLUMNAR, 4-SHEAR, 5-SIDE FRACTURE, 6-OTHER)

REMARKS: _____

COPIES: _____

TIERRA INC.

TIERRA

7351 Temple Terrace Highway • Tampa, Florida 33637
Phone: (813) 989-1354 • Fax: (813) 989-1355
Florida Certificate No. 6486

CONCRETE TEST REPORT

CLIENT: Kimely-Horn
655 N. Franklin Street, Suite 150
Tampa, FL 33602

DATE: 3/14/2023
JOB NO: 6111-22-111

PROJECT: Avon Park Executive Airport
FBO Terminal - Apron Rehabilitation
Avon Park, FL

SET NO: 001

FIELD INFORMATION		FIELD TEST DATA		
DATE SAMPLED: 2/14/2023	SAMPLED BY: CQC	GALS WATER ADDED TO CY		
CONCRETE SUPPLIER:	PLANT:	ADD'L WATER AUTH. BY:		
TRUCK NO:	TICKET NO:	MEASURED	SPECIFIED	ASTM METHODS
TIME MIXED:	TIME SAMPLED:	SLUMP (IN.)		ASTM C-143
DESIGN MIX NO:	QUANTITY REP (CY):	AIR CONTENT (%):		ASTM C-231
DESIGN COMP. STR. AT 28 DAYS (PSI): 4000				
DATE REC'D N LAB: 2/21/2023		TEMP CONCRETE (°F)		ASTM C-1064
LOCATION OF POUR:		TEMPERATURE AIR (°F)		
APRON REHABILITATION		UNIT WEIGHT (lb/ft ³)		ASTM C-138
CONCRETE ENCASED ELECTRICAL DUCT		FIELD REMARKS:		
		CYLINDERS CAST & INFORMATION SUPPLIED BY CQC		

LABORATORY TEST DATA								
CYL NO.	DATE OF TEST	AGE (DAYS)	LOAD (lbs)	DIAMETER (in.)	AREA (sq. in.)	COMPRESSIVE STRENGTH (psi)	TESTED BY	FRACTURE TYPE
A	2/22/23	8	41,240	4.00	12.57	3282	DT	5
B	3/14/23	28	67,380	4.00	12.57	5362	DT	5
C	3/14/23	28	65,360	4.00	12.57	5201	DT	5
	28 Day - Average					5280		

SAMPLES CURED IN ACCORDANCE WITH ASTM C-31 UNLESS OTHERWISE NOTED

SAMPLED IN ACCORDANCE WITH ASTM C-31

FRACTURE TYPE AS PER ASTM C-39-2021 (1-CONE, 2-CONE/SPLIT, 3-COLUMNAR, 4-SHEAR, 5-SIDE FRACTURE, 6-OTHER)

REMARKS: _____

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Phone: (813) 989-1354 • Fax: (813) 989-1355

Florida Certificate No. 6486

CONCRETE TEST REPORT

CLIENT: Kimley-Horn
201 N Franklin St, Ste 1400
Tampa, FL 33602

DATE: 4/13/2023
JOB NO: 6111-22-111

PROJECT: Avon Park Executive Airport
FBO Terminal - Apron Rehabilitation
Avon Park, FL

SET NO: 004

FIELD INFORMATION		FIELD TEST DATA		
DATE SAMPLED: 4/6/2023	SAMPLED BY: J. GAC	GALS WATER ADDED TO CY		
CONCRETE SUPPLIER: JAHNA	PLANT:	ADD'L WATER AUTH. BY:		
TRUCK NO: 218	TICKET NO: 20896	MEASURED	SPECIFIED	ASTM METHODS
TIME MIXED: 1:14 PM	TIME SAMPLED: 2:00 PM	SLUMP (IN.) 3 1/2		ASTM C-143
DESIGN MIX NO: 610305	QUANTITY REP (CY): 2	AIR CONTENT (%):		ASTM C-231
DESIGN COMP. STR. AT 28 DAYS (PSI): 4000				
DATE REC'D N LAB: 4/7/2023		TEMP CONCRETE (°F) 86		ASTM C-1064
LOCATION OF POUR:		TEMPERATURE AIR (°F) 88		
BOLLARD BASES		UNIT WEIGHT (lb/ft³)		ASTM C-138
SOUTH SIDE OF FUEL TANKS		FIELD REMARKS:		

LABORATORY TEST DATA								
CYL NO.	DATE OF TEST	AGE (DAYS)	LOAD (lbs)	DIAMETER (in.)	AREA (sq. in.)	COMPRESSIVE STRENGTH (psi)	TESTED BY	FRACTURE TYPE
A	4/13/23	7	39,630	3.99	12.50	3169	DT	5
B	5/4/23	28						
C	5/4/23	28						
	28 Day-Average					#DIV/0!		

SAMPLES CURED IN ACCORDANCE WITH ASTM C-31 UNLESS OTHERWISE NOTED

FRACTURE TYPE AS PER ASTM C-39-2021 (1-CONE, 2-CONE/SPLIT, 3-COLUMNAR, 4-SHEAR, 5-SIDE FRACTURE, 6-OTHER)

REMARKS: _____

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Phone: (813) 989-1354 • Fax: (813) 989-1355
Florida Certificate No. 6486

CONCRETE TEST REPORT

CLIENT: Kimley-Horn
201 N Franklin St, Ste 1400
Tampa, FL 33602

DATE: 4/14/2023
JOB NO: 6111-22-111

PROJECT: Avon Park Executive Airport
FBO Terminal - Apron Rehabilitation
Avon Park, FL

SET NO: 003

FIELD INFORMATION		FIELD TEST DATA		
DATE SAMPLED: 3/17/2023	SAMPLED BY: CQC	GALS WATER ADDED TO		CY
CONCRETE SUPPLIER: JAHNA	PLANT:	ADD'L WATER AUTH. BY:		
TRUCK NO: 628	TICKET NO: 436100	MEASURED	SPECIFIED	ASTM METHODS
TIME MIXED:	TIME SAMPLED:	SLUMP (IN.)		ASTM C-143
DESIGN MIX NO: 610305	QUANTITY REP (CY): 10	AIR CONTENT (%):		ASTM C-231
DESIGN COMP. STR. AT 28 DAYS (PSI): 4000				
DATE REC'D N LAB: 3/21/2023		TEMP CONCRETE (°F)		ASTM C-1064
LOCATION OF POUR:		TEMPERATURE AIR (°F)		
DUMPSTER SLAB		UNIT WEIGHT (lb/ft ³)		ASTM C-138
		FIELD REMARKS:		
		CYLINDERS CAST & INFORMATION SUPPLIED BY CQC		

LABORATORY TEST DATA								
CYL NO.	DATE OF TEST	AGE (DAYS)	LOAD (lbs)	DIAMETER (in.)	AREA (sq. in.)	COMPRESSIVE STRENGTH (psi)	TESTED BY	FRACTURE TYPE
A	3/24/23	7	32,510	3.99	12.50	2600	DT	6
B	4/14/23	28	56,961	3.99	12.50	4556	DT	5
C	4/14/23	28	62,333	4.00	12.57	4960	DT	5
	28 Day-Average					4760		

SAMPLES CURED IN ACCORDANCE WITH ASTM C-31 UNLESS OTHERWISE NOTED

FRACTURE TYPE AS PER ASTM C-39-2021 (1-CONE, 2-CONE/SPLIT, 3-COLUMNAR, 4-SHEAR, 5-SIDE FRACTURE, 6-OTHER)

REMARKS: _____

COPIES:

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TIERRA

7351 Temple Terrace Highway • Tampa, Florida 33637
Phone: (813) 989-1354 • Fax: (813) 989-1355
Florida Certificate No. 6486

CONCRETE TEST REPORT

CLIENT: Kimley-Horn
201 N Franklin St, Ste 1400
Tampa, FL 33602

DATE: 5/4/2023
JOB NO: 6111-22-111

PROJECT: Avon Park Executive Airport
FBO Terminal - Apron Rehabilitation
Avon Park, FL

SET NO: 004

FIELD INFORMATION			FIELD TEST DATA		
DATE SAMPLED:	4/6/2023	SAMPLED BY:	J. GAC	GALS WATER ADDED TO CY	
CONCRETE SUPPLIER:	JAHNA	PLANT:		ADD'L WATER AUTH. BY:	
TRUCK NO:	218	TICKET NO:	20696	MEASURED	SPECIFIED ASTM METHODS
TIME MIXED:	1:14 PM	TIME SAMPLED:	2:00 PM	SLUMP (IN.)	3 1/2 ASTM C-143
DESIGN MIX NO:	610305	QUANTITY REP (CY):	2	AIR CONTENT (%):	ASTM C-231
DESIGN COMP. STR. AT 28 DAYS (PSI):			4000		
DATE REC'D N LAB:			4/7/2023	TEMP CONCRETE (°F)	86 ASTM C-1064
LOCATION OF POUR:				TEMPERATURE AIR (°F)	88
BOLLARD BASES				UNIT WEIGHT (lb/ft³)	ASTM C-138
SOUTH SIDE OF FUEL TANKS				FIELD REMARKS:	

LABORATORY TEST DATA								
CYL NO.	DATE OF TEST	AGE (DAYS)	LOAD (lbs)	DIAMETER (in.)	AREA (sq. in.)	COMPRESSIVE STRENGTH (psi)	TESTED BY	FRACTURE TYPE
A	4/13/23	7	39,630	3.99	12.50	3169	DT	5
B	5/4/23	28	60,557	4.00	12.57	4819	DT	5
C	5/4/23	28	63,668	3.99	12.50	5092	DT	5
	28 Day-Average					4960		

SAMPLES CURED IN ACCORDANCE WITH ASTM C-31 UNLESS OTHERWISE NOTED

FRACTURE TYPE AS PER ASTM C-39-2021 (1-CONE, 2-CONE/SPLIT, 3-COLUMNAR, 4-SHEAR, 5-SIDE FRACTURE, 6-OTHER)

REMARKS: _____

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Section 4

Professional Services and Administrative Cost Summary

4.1 Summary of Administrative, Engineering and Professional Services Costs

**Avon Park Executive Airport
Terminal Apron Rehabilitation**

4.1 Summary of Administrative, Engineering and Professional Services Costs

Professional Engineering Service		Service Cost
Basic Services		
Design	\$	131,705.00
Bidding Services	\$	9,794.00
Construction Phase Services/Closeout	\$	67,350.00
Subtotal	\$	208,849.00
Other Services		
Design - Geotechnical	\$	15,832.67
Design - Topo Survey	\$	8,563.36
Construction - Q/A Testing	\$	29,756.00
Subtotal	\$	54,152.03
Professional Engineering Services Total		\$ 263,001.03
Project Inspection Costs		Service Cost
Project Inspection	\$	149,905.00
Project Inspection Costs Total	\$	149,905.00
Administration & /Engineering Costs Total		\$ 412,906.03

4.2 Summary of Construction Administration Time

RESIDENT PROJECT REPRESENTATIVE TIME

Airport: Avon Park Executive Airport
Project: Terminal Apron Rehabilitation
RPR: Kimley-Horn

Date	Description	Hours	Notes
2/1/23 to 2/28/23	RPR Services - February 2023	70	Phase 1A begin - 2/20/23
3/1/23 to 3/31/23	RPR Services - March 2023	230	
4/1/23 to 4/20/23	RPR Services - April 2023	140	Phase 2 end - 4/20/23
5/1/23 to 5/31/23	RPR Services - May 2023	20	Seal Coat and Marking application
Total		460	

Section 5

Disadvantaged Business Enterprise (DBE) Participation

5.1 DBE Reporting Form



One Ajax Drive
North Venice, Florida 34275
(941) 486-3600

DBE FINAL RECAP

Contract Number: N/A	Ajax Project Number: 406122	DBE Goal: 14.64%
Financial Project Number: N/A	Location: Avon Park Airport	DBE Actual %: 38.76%
FAP Number: N/A	Owner: City of Avon Park	
Project Amount: \$2,327,746.42	Reporting Month: FINAL PAYMENT ACTIVITY - September 2023	

DBE Subcontractor	Commitment Contract Amount	Invoice Number	Transaction Number	Invoice Date	Payment Date	Payment	Paid DBE Percentage
Ongrade Contracting	\$821,909.46	406122-01	3458	2/28/2023	3/31/2023	\$ 154,645.21	
Sitework		406122-02	3973	3/31/2023	5/12/2023	\$ 513,352.37	
		406122-03	3290	4/30/2023	5/26/2023	\$ 153,287.95	
		406122-05	1933	7/20/2023	8/18/2023	\$ 623.93	
Totals	\$821,909.46					\$ 821,909.46	35.31%

DBE Subcontractor	Commitment Contract Amount	Invoice Number	Transaction Number	Invoice Date	Payment Date	Payment	Paid DBE Percentage
Alers Hauling	\$12,856.25	16706B	1035	3/15/2023	3/24/2023	\$ 9,031.25	
		16768B	2957	3/27/2023	4/7/2023	\$ 3,825.00	
Totals	\$12,856.25					\$ 12,856.25	0.55%

DBE Subcontractor	Commitment Contract Amount	Invoice Number	Transaction Number	Invoice Date	Payment Date	Payment	Paid DBE Percentage
D & J Lawn	\$17,584.02	406122-02	3975	3/31/2023	5/12/2023	\$ 7,092.02	
Sod		406122-03	3292	4/30/2023	5/26/2023	\$ 8,733.60	
		406122-02r	3975r	3/31/2023	8/18/2023	\$ 788.00	
		406122-03r	3292r	4/30/2023	8/18/2023	\$ 970.40	
Totals	\$17,584.02					\$ 17,584.02	0.76%

DBE Subcontractor	Commitment Contract Amount	Invoice Number	Transaction Number	Invoice Date	Payment Date	Payment	Paid DBE Percentage
Gosalia Concrete	\$23,633.00	406122-03	3293	4/30/2023	5/26/2023	\$ 23,633.00	
Joint Seal							
Totals	\$23,633.00					\$ 23,633.00	1.02%

DBE Subcontractor	Commitment Contract Amount	Invoice Number	Transaction Number	Invoice Date	Payment Date	Payment	Paid DBE Percentage
Traffic Control Products	\$11,013.87	406122-05	1932	7/20/2023	8/18/2023	\$ 11,013.87	
Striping							
Totals	\$11,013.87					\$ 11,013.87	0.47%

DBE Subcontractor	Commitment Contract Amount	Invoice Number	Transaction Number	Invoice Date	Payment Date	Payment	Paid DBE Percentage
Roberts Consulting	\$15,205.00	406122-01	3459	2/28/2023	3/31/2023	\$ 2,736.90	
Proctor - Standard		406122-02	3974	3/31/2023	5/12/2023	\$ 2,736.90	
		406122-03	3291	4/30/2023	5/26/2023	\$ 2,736.90	
		406122-04	3830	5/31/2023	6/23/2023	\$ 2,736.90	
		406122-01r	3459r	2/28/2023	8/18/2023	\$ 304.10	
		406122-02r	3974r	3/31/2023	8/18/2023	\$ 304.10	
		406122-03r	3291r	4/30/2023	8/18/2023	\$ 304.10	
		406122-04r	3830r	5/31/2023	8/18/2023	\$ 304.10	
		406122-05	1934	7/20/2023	8/18/2023	\$ 3,041.00	
Totals	\$15,205.00					\$ 15,205.00	0.65%

TOTAL DBE Payments & Percentage \$ 902,201.60 38.76%

Signature: _____

Linda J. Fagan-Bailey
EEO/DBE Officer