

Flight Procedures Cover Page	Task Action: FLIGHT CHECK	Task Type: SID	Estimated Chart Date: 08/07/2025	APWS Task ID: A3CE57C990A64A9A949D900EC92DD732	APWS Project ID: FCF6525BE7534D03A049FBCC95E588C3
Procedure: PALACIOS FOUR DEPARTURE		Enroute: YES	Specialist: Strobach, Ronald		Agreement Number:
Airport ID: KIAH			Airport City: HOUSTON		State: TX
Facility ID:	Facility Type:	Flight Inspection Remark Type: New FC Slot			
Procedure Comments: ACTIVE AIRNAV DATA USED. WAIVER (1): T41 RWY 5: RWY ROUTE DESCRIPTION MITIGATION. ESV (1): PSK VORTAC. CONTACT CASIMIR L. TABAKA, AJV-A432, 405-954-7931. QUALITY 20 CHECKED QUALITY 41 CHECKED					

1. FLIGHT PROCEDURE IDENTIFICATION:

LA PORTE, TX
LA PORTE MUNI (KT41) PALACIOS
DEPARTURE

2. WAIVER REQUIRED AND APPLICABLE STANDARD: FAA Order 8260.3 does not describe how to assess obstacles for a RADAR SID supporting a range of initial headings. In accordance with Flight Standards memo dated May 23, 2023, Clarification to FAA Order 8260.46, Departure Procedure (DP) Program, Standard Instrument Departure (SID), a diverse departure assessment can be used to evaluate obstacle clearance for this type of operation, but a waiver is required.

3. REASON FOR WAIVER (JUSTIFICATION FOR NONSTANDARD TREATMENT): Currently, the PALACIOS Departure serves KT41. Houston TRACON (I90) ATC request to have the departure route description for RWY 5 and RWY 23 state: When entering controlled airspace, climb on assigned heading for RADAR vectors to SKUBA. Maintain ATC assigned altitude. Expect filed altitude 10 minutes after departure, thence....

4. EQUIVALENT LEVEL OF SAFETY PROVIDED: A Diverse Departure Assessment has been completed for KT41. TAKEOFF MINS will be published on the SID chart and establish the necessary climb gradient needed to avoid obstacles until reaching the Minimum Vectoring Altitude (MVA) 2000' where Air Traffic will assume responsibility for the aircraft. TAKEOFF MINIMUMS: RWY 12, 23, 30: STANDARD. RWY 5: 400 - 2 1/2 OR STANDARD WITH MINIMUM CLIMB OF 205 FT/NM TO 500.

5. ALTERNATIVE ACTIONS DEEMED NOT FEASIBLE: Due to the variations in the performance of local aircraft, I90 requires the ability to assign diverging headings on departure to de-conflict traffic. Additionally, I90 requires the ability to assign varying altitudes based off of operational need which will be at or above the MVA for I90.

6. COORDINATION WITH USER ORGANIZATIONS (SPECIFY):

I90 Approach Control

7. SUBMITTED BY:

DATE	OFFICE IDENTIFICATION	TITLE
07/30/24	AJV-A430	MANAGER

Digitally signed by
CASIMIR L TABAKA
Apr 21, 2025

SIGNATURE

8. AFS ACTIONS:

☐ APPROVED ☐ DISAPPROVED ☐ NOT REQUIRED

COMMENTS:

DATE	ROUTING SYMBOL	SIGNATURE
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ESV Details

Originating Office :AJV-420AO		Airspace Docket Number :		Request Type :Establish		
Facility Data						
Chart Name:PALACIOS FOUR		City:PALACIOS		Ident:PSX		State:TX
Type/Class: H-VOR		Frequency: M117.3		Reference Number: 25038425		
Extended Service Volume Data: (Requesting Officer)						
ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	
FAA 690890 - 019	257		108	100	180	
Requirement: PALACIOS FOUR ICEMN VORMON REQUESTING 10,000 OR BEST ALTITUDE						
Signature:Strobach Ronald		Routing Symbol:AJV-A432				Date:03/18/2025
Extended Service Volume Data: (FMO)						
ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 690890 - 019	257		108	100	180	APPROVE
Requirement/Remarks: PALACIOS FOUR ICEMN VORMON REQUESTING 10,000 OR BEST ALTITUDEAPPROVED. FREQ. PROTECTION & FIELD STRENGTH. PENDING FLIGHT INSPECT @ REQUIRED. DIST. & MIN ALT..						
Signature:Bowers Michael		Routing Symbol:			Date:03/18/2025	
Extended Service Volume Data: (Super FMO)						
ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 690890 - 019	257		108	100	180	APPROVE
Requirement/Remarks: PALACIOS FOUR ICEMN VORMON REQUESTING 10,000 OR BEST ALTITUDEAPPROVED. FREQ. PROTECTION & FIELD STRENGTH. PENDING FLIGHT INSPECT @ REQUIRED. DIST. & MIN ALT..						
Signature:Hughes Dennis		Routing Symbol:			Date:03/19/2025	
Extended Service Volume Data: (FIFO)						
ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 690890 - 019	257					
Requirement/Remarks:						
Signature:		Routing Symbol:			Date:	

PALACIOS FOUR DEPARTURE
(PSX4, PSX) FIG

GEORGE BUSH INTCNL/HOUSTON (IAH)
HOUSTON, TEXAS

HOUSTON DEP CON
127.125 269.075
D-ATIS
124.05
CLNC DEL
128.1
CPDLC
GND CON
118.575 (Rwys 8L/R, 26L/R, 9/27)
121.7 (Rwys 15L/R, 33L/R)
HOUSTON TOWER
120.725 290.2 (Rwys 8L/26R)
125.35 290.2 (Rwys 8R/26L)
127.3 288.25 (Rwys 15L/R, 33L/R)
135.15 290.2 (Rwys 9/27)

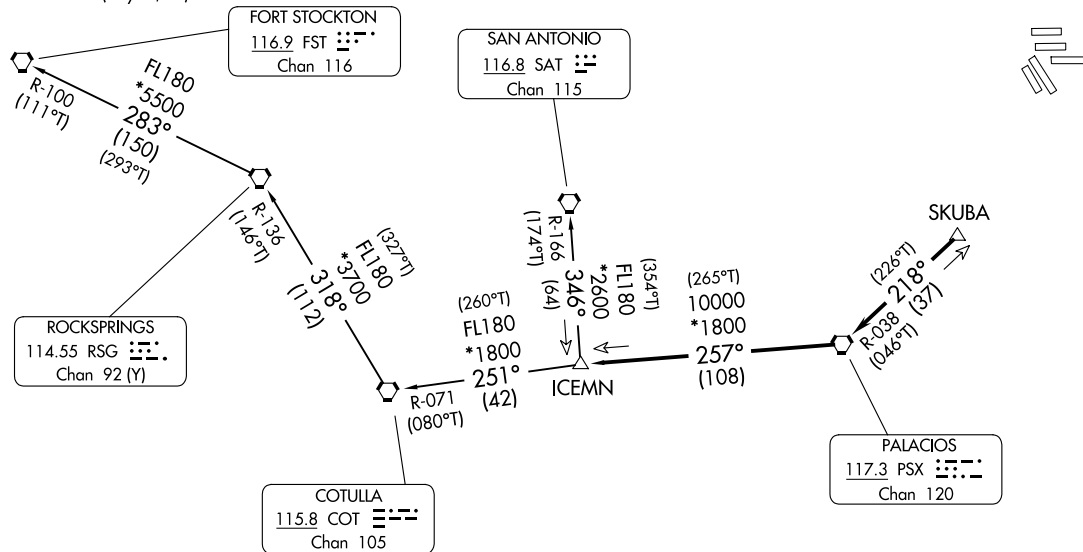
RADAR and DME required.

TOP ALTITUDE:
16000

TAKEOFF MINIMUMS

Rwys 8L/R, 9, 27, 15L/R, 26L/R, 33L/R: Standard.

PROTOTYPE-NOT FOR NAVIGATION



(CONTINUED ON FOLLOWING PAGE)

(PSX4, PSX) FIG
PALACIOS FOUR DEPARTURE

AL-5461 (FAA)

GEORGE BUSH INTCNL/HOUSTON (IAH)
HOUSTON, TEXAS



DEPARTURE ROUTE DESCRIPTION

TAKEOFF ALL RUNWAYS: Climb on assigned heading for RADAR vectors to SKUBA, maintain 16000. Expect filed altitude 10 minutes after departure, thence

. . . . on PSX R-038 to PSX VORTAC.

FORT STOCKTON TRANSITION (PSX4.FST): From over PSX VORTAC on PSX R-257 to ICEMN, then on COT R-071 to COT VORTAC, then on COT R-318 and RSG R-136 to RSG VORTAC, then on RSG R-283 and FST R-100 to FST VORTAC.

SAN ANTONIO TRANSITION (PSX4.SAT): From over PSX VORTAC on PSX R-257 to ICEMN, then on SAT R-166 to SAT VORTAC.

PROTOTYPE-NOT FOR NAVIGATION

SC-5, 23 JAN 2025 to 20 FEB 2025

TOP ALTITUDE:
16000

RADAR and DME required.

D-ATIS
124.05
CLNC DEL
128.1
CPDLC
GND CON
118.575 (Rwys 8L/R, 26L/R, 9/27)
121.7 (Rwys 15L/R, 33L/R)
HOUSTON TOWER
120.725 290.2 (Rwys 8L/26R)
125.35 290.2 (Rwys 8R/26L)
127.3 288.25 (Rwys 15L/R, 33L/R)
HOUSTON DEP CON
135.15 290.2 (Rwys 9/27)
127.125 269.075

TAKEOFF MINIMUMS
Rwys 8L/R, 9, 27, 15L/R, 26L/R, 33L/R: Standard.

FORT STOCKTON
116.9 FST
Chan 116

SAN ANTONIO
116.8 SAT
Chan 115

PALACIOS
117.3 PSX
Chan 120

THREE RIVERS
111.4 THX
Chan 51

COTUILA
115.8 COT
Chan 105

ROCKSPRINGS
114.55 RSG
Chan 92 (Y)

OLD



SKUBA



(CONTINUED ON FOLLOWING PAGE)

SC-5, 23 JAN 2025 to 20 FEB 2025

NOTE: Chart not to scale.

OLD

(PSX3.PSX) 22307

PALACIOS THREE DEPARTURE

GEORGE BUSH INTCNL/HOUSTON (IAH)
HOUSTON, TEXAS



DEPARTURE ROUTE DESCRIPTION

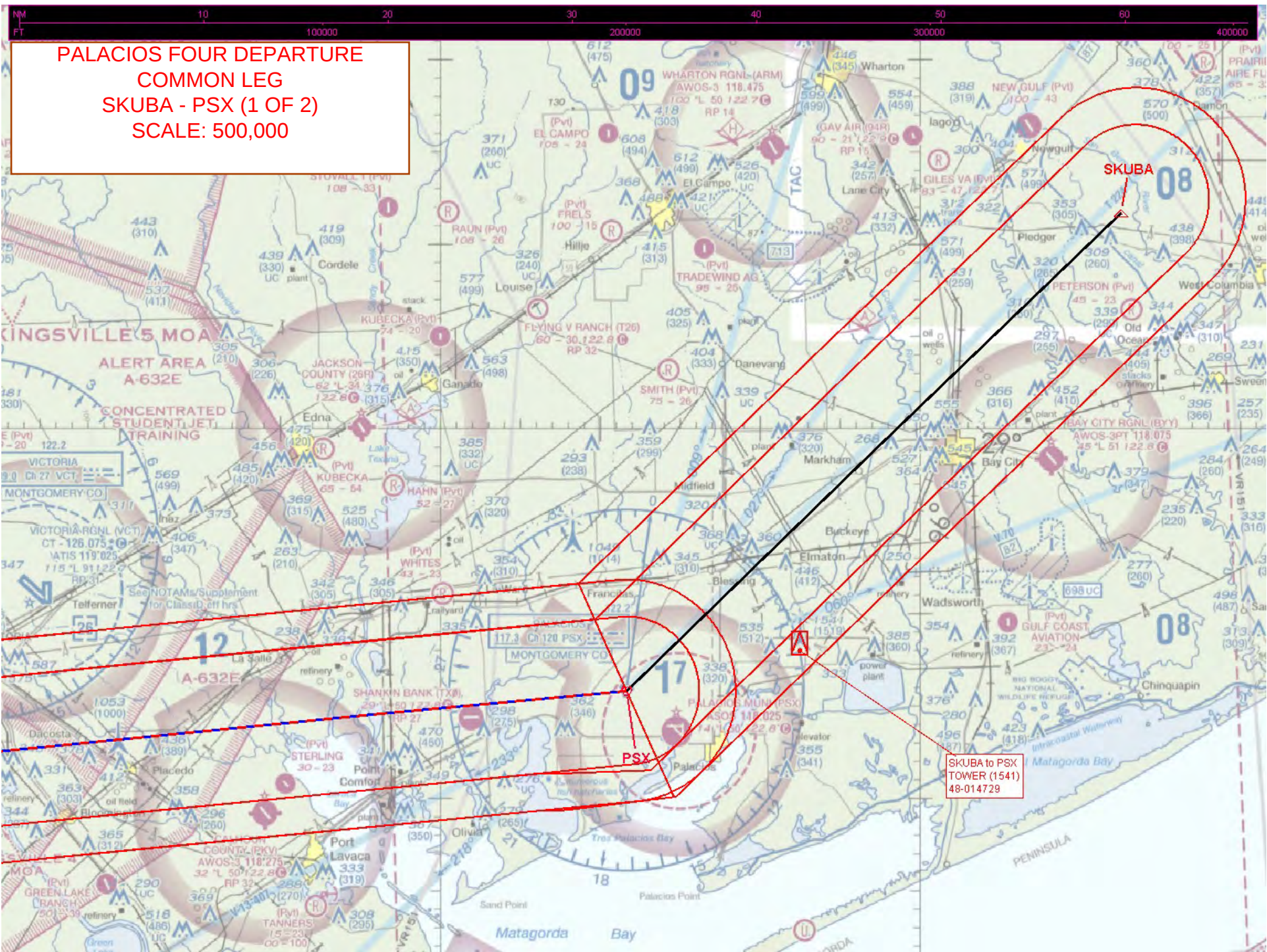
TAKEOFF ALL RUNWAYS: Climb on assigned heading for RADAR vectors to SKUBA, maintain 16000.
Expect filed altitude 10 minutes after departure, thence
. . . . on PSX R-038 to PSX VORTAC.

FORT STOCKTON TRANSITION (PSX3.FST): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on THX R-259 and COT R-078 to COT VORTAC, then on COT R-318 and RSG R-136 to RSG VORTAC, then on RSG R-283 and FST R-100 to FST VORTAC.

SAN ANTONIO TRANSITION (PSX3.SAT): From over PSX VORTAC on PSX R-253 and THX R-073 to THX VORTAC, then on SAT R-158 to SAT VORTAC.

SC-5, 23 JAN 2025 to 20 FEB 2025

SC-5, 23 JAN 2025 to 20 FEB 2025

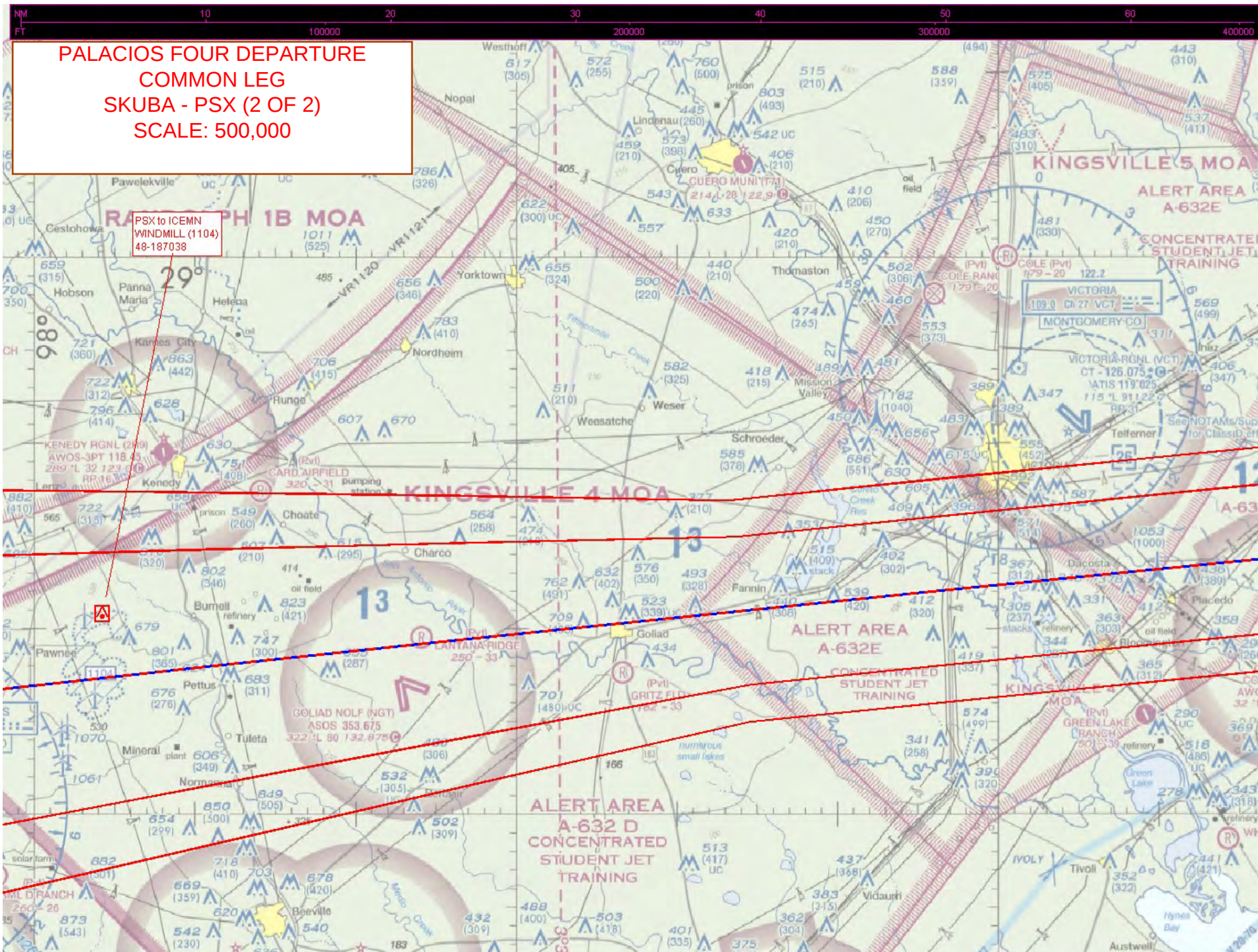


PALACIOS FOUR DEPARTURE
COMMON LEG
SKUBA - PSX (1 OF 2)
SCALE: 500,000

SKUBA

PSX

SKUBA to PSX
TOWER (1541)
48-014729



FORT STOCKTON TRANSITION

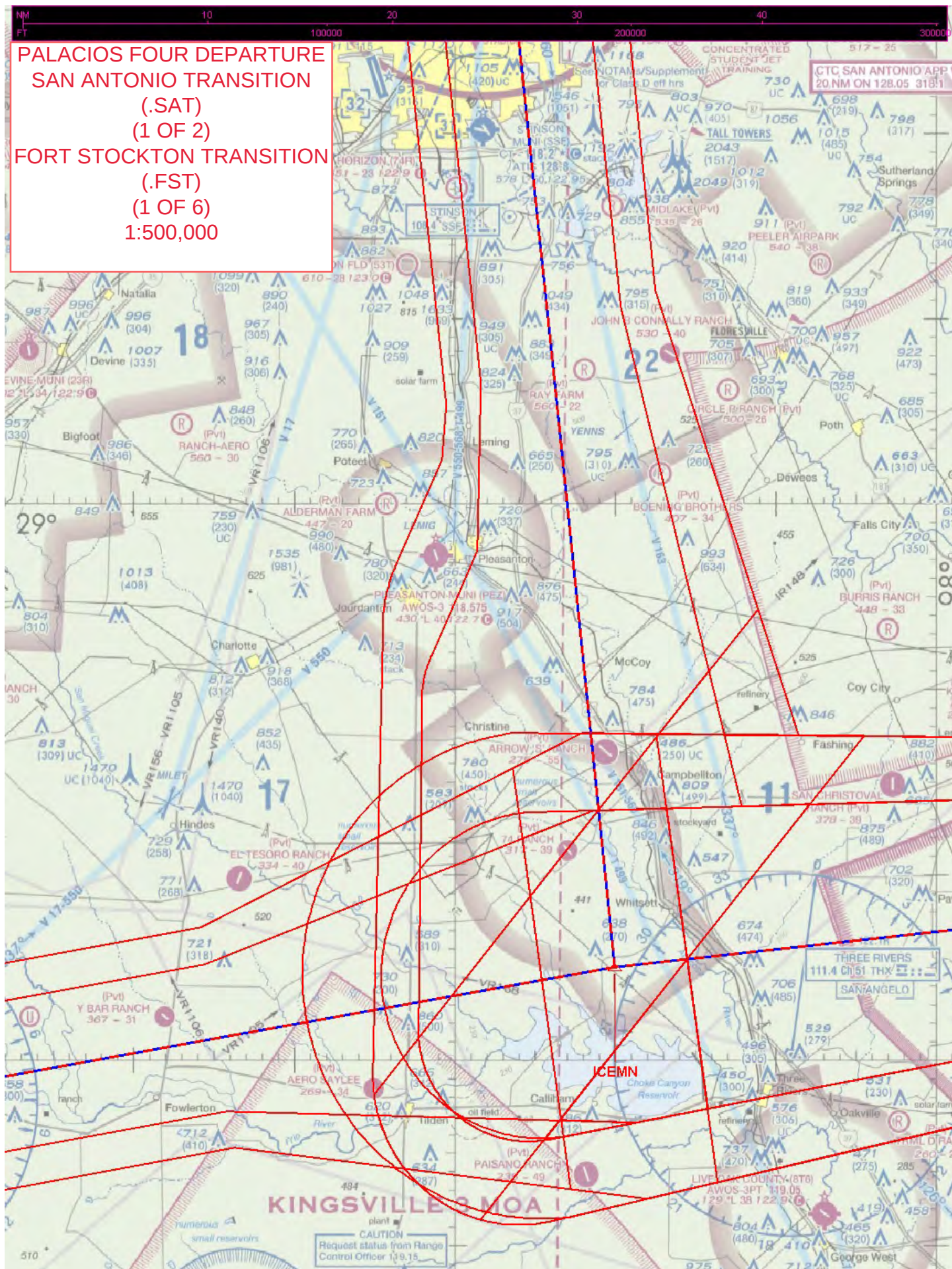
(.FST)

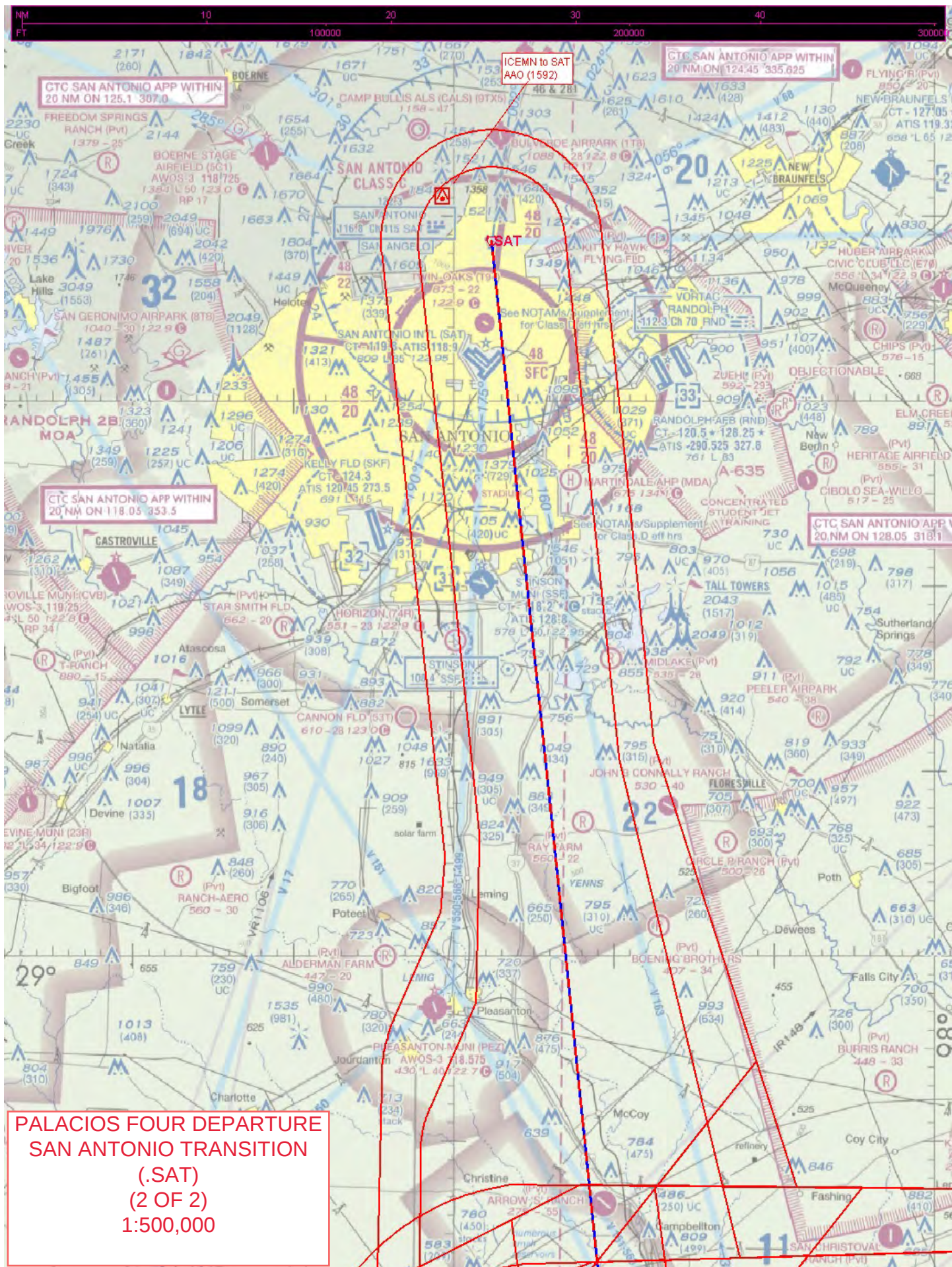
FORT STOCKTON TRANSITION

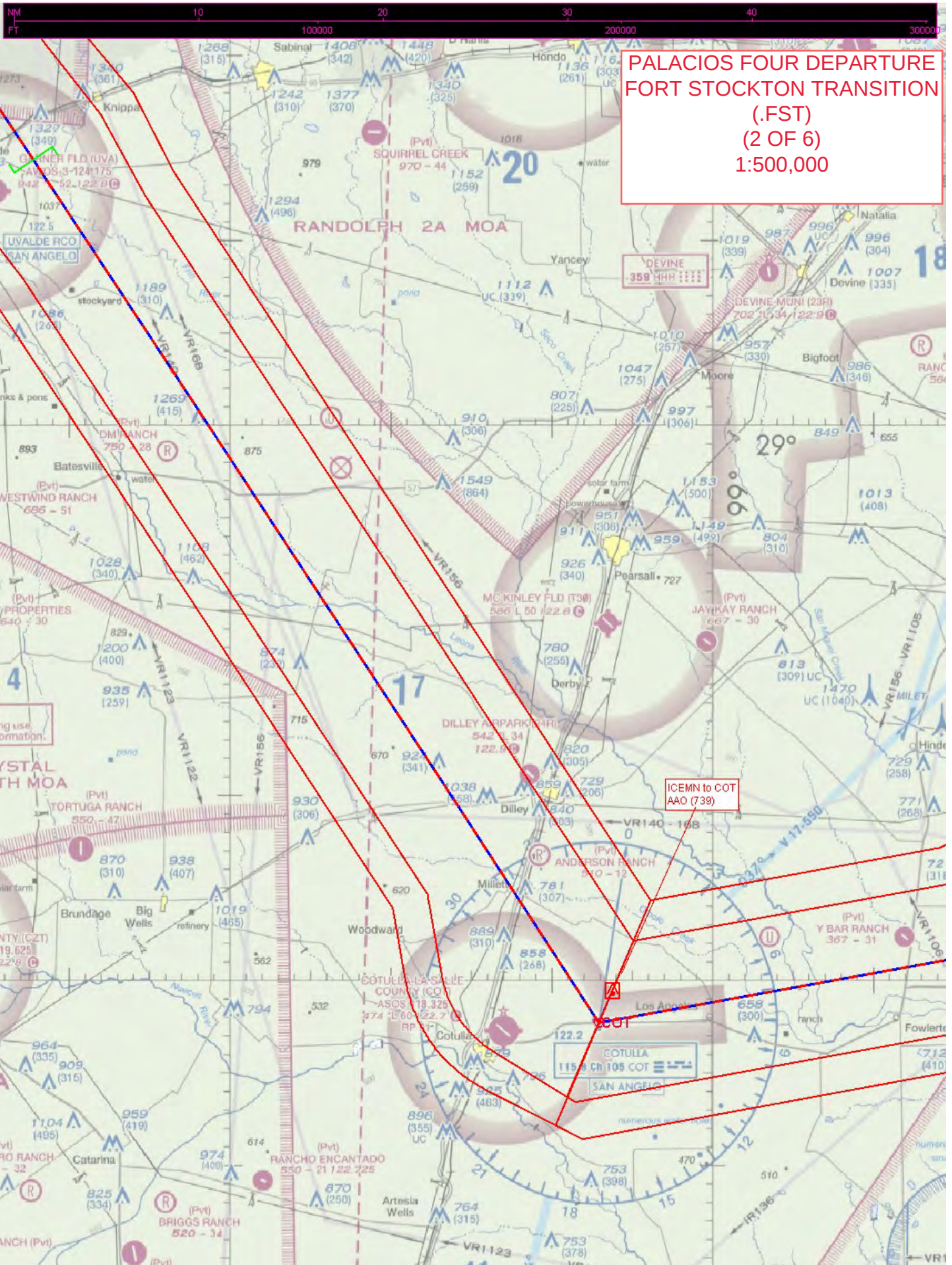
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(1 OF 6)

1:500,000

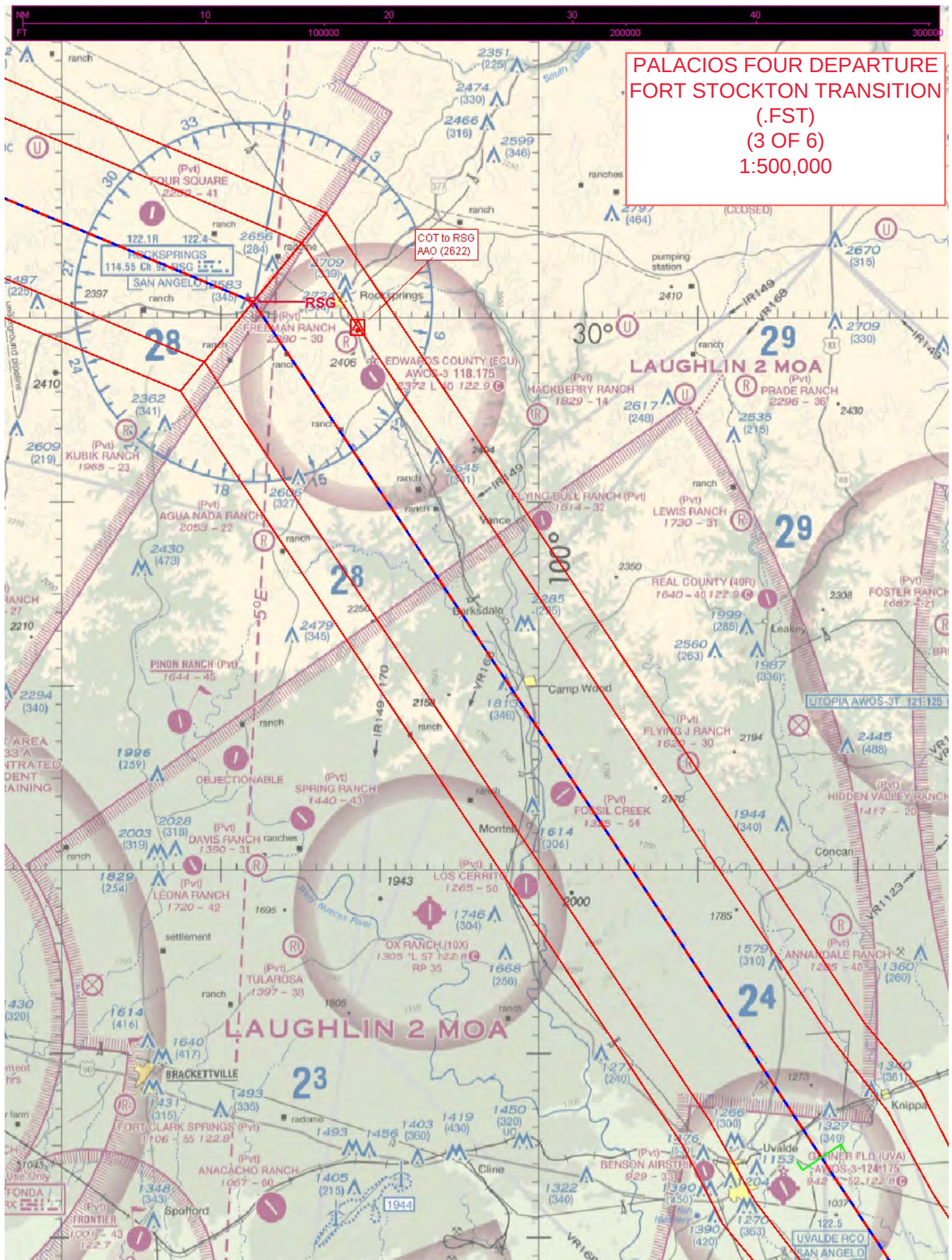


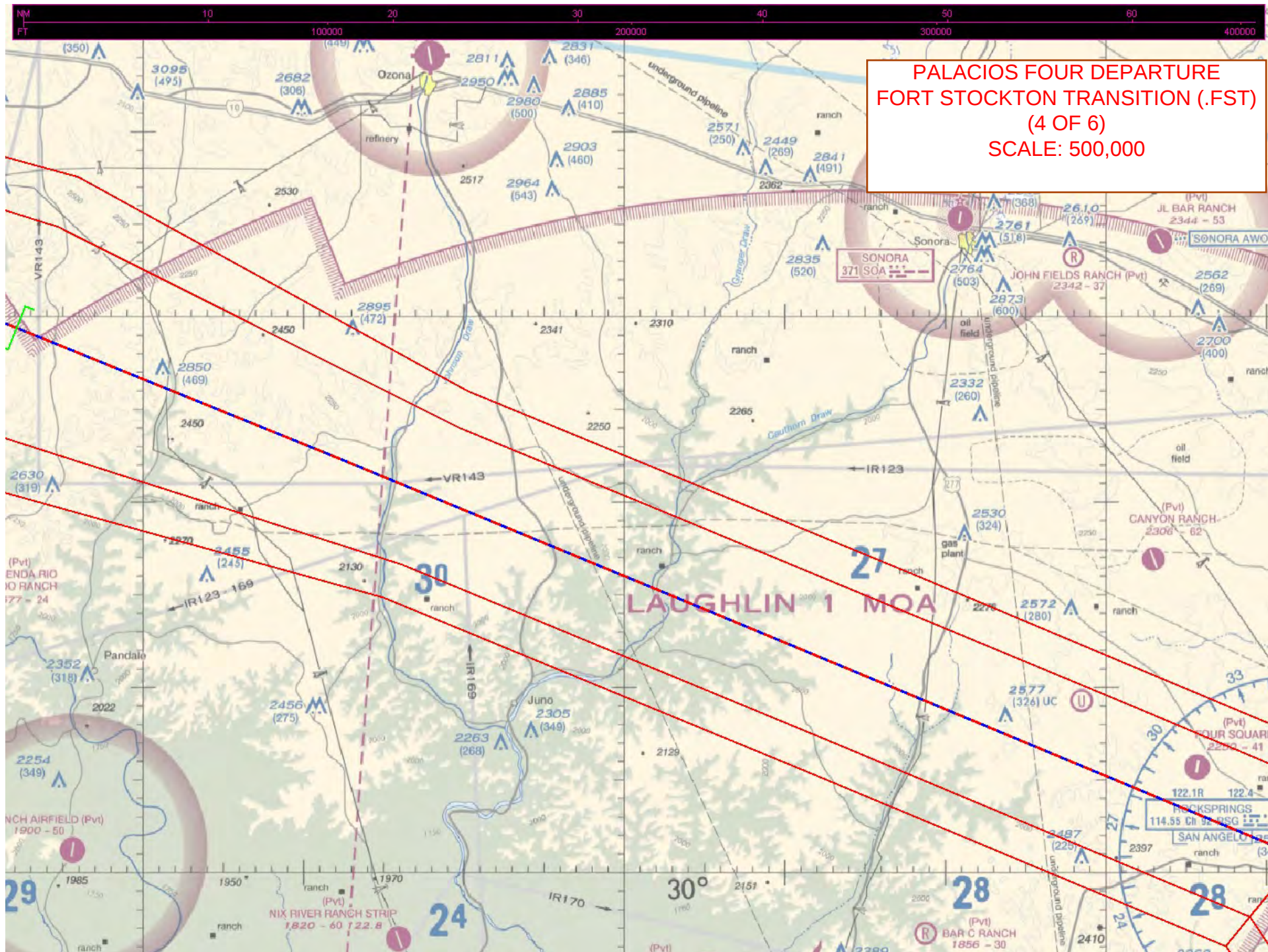


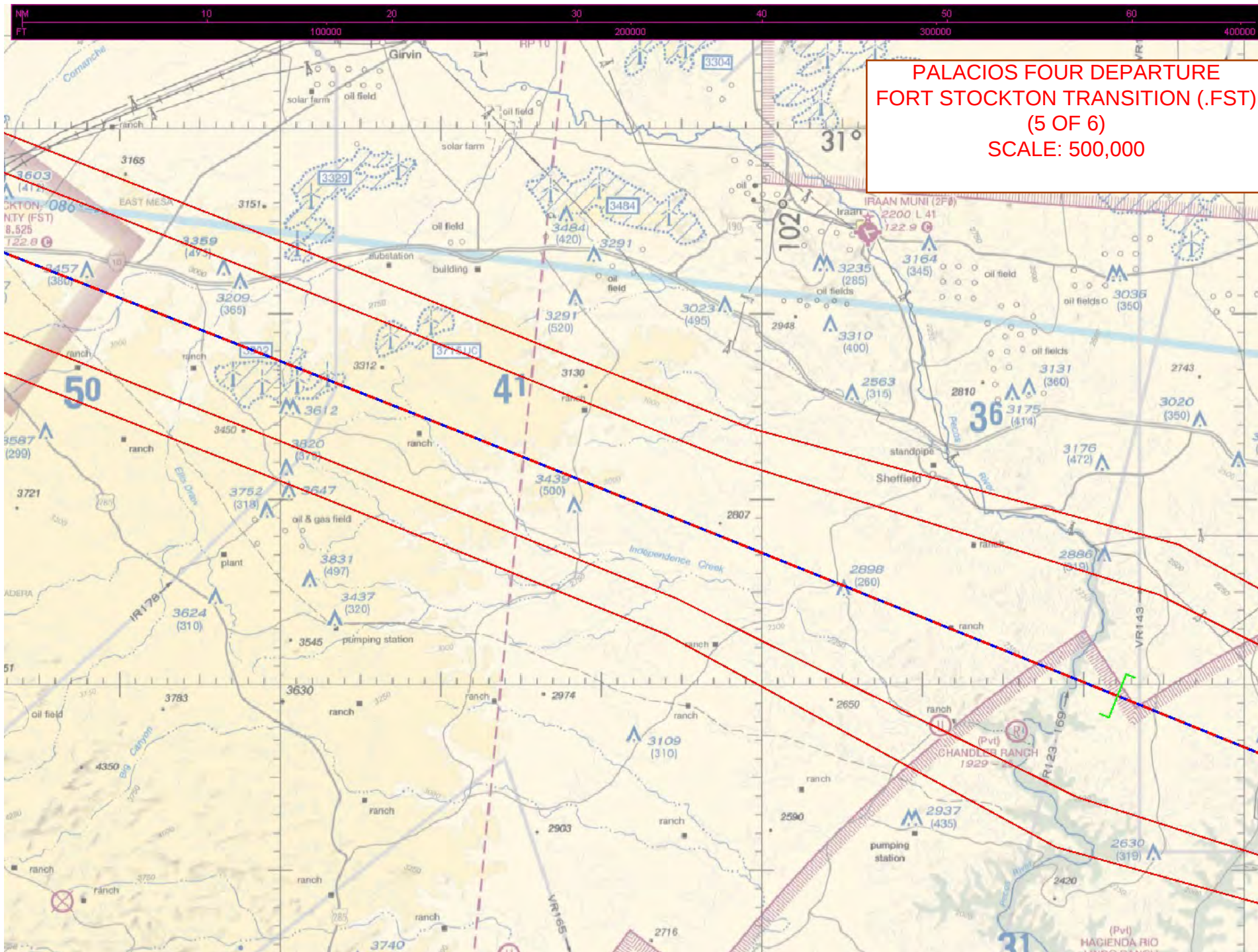


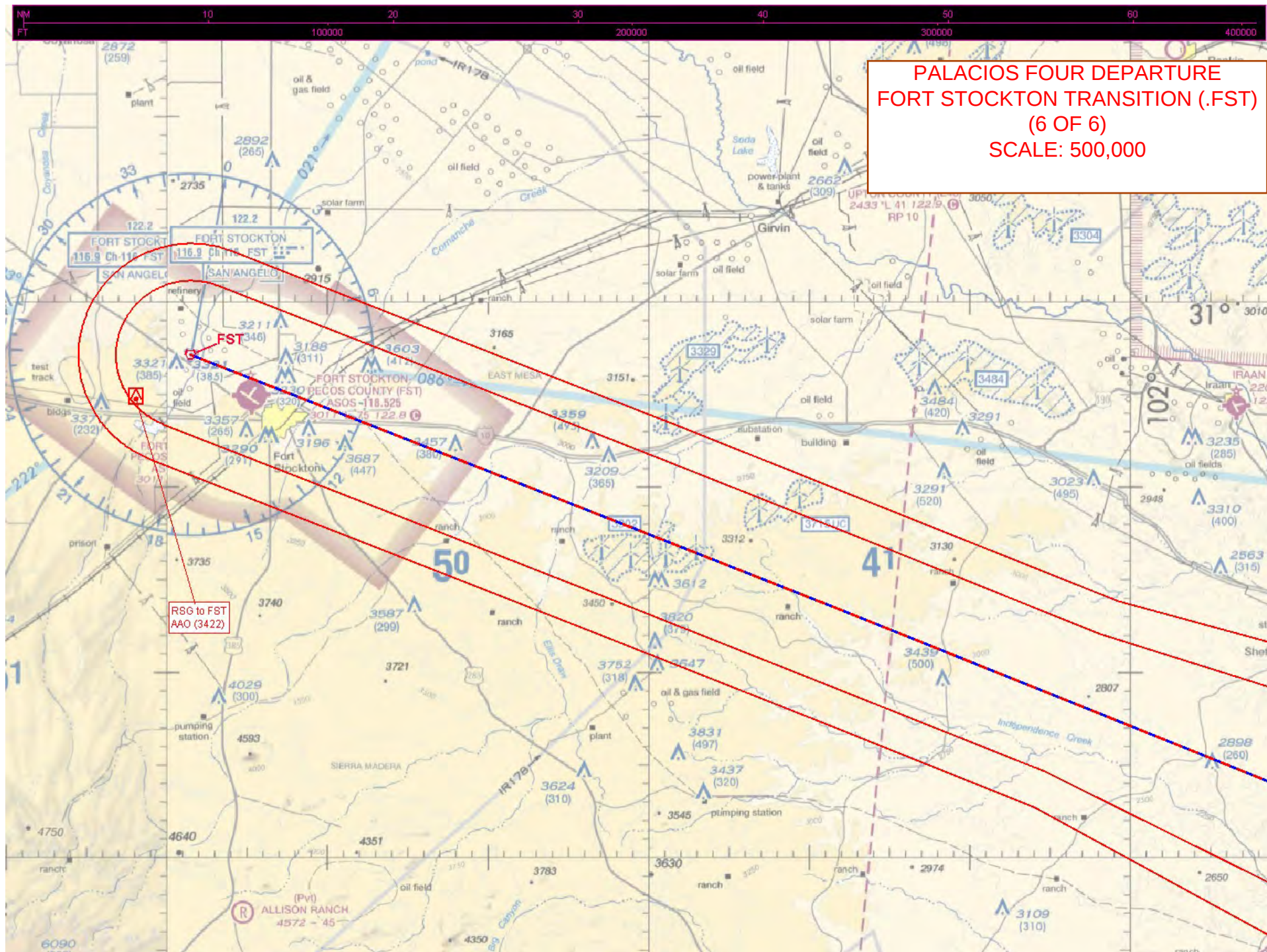
PALACIOS FOUR DEPARTURE
FORT STOCKTON TRANSITION
(.FST)
(2 OF 6)
1:500,000

ICEMN to COT
AAO (739)

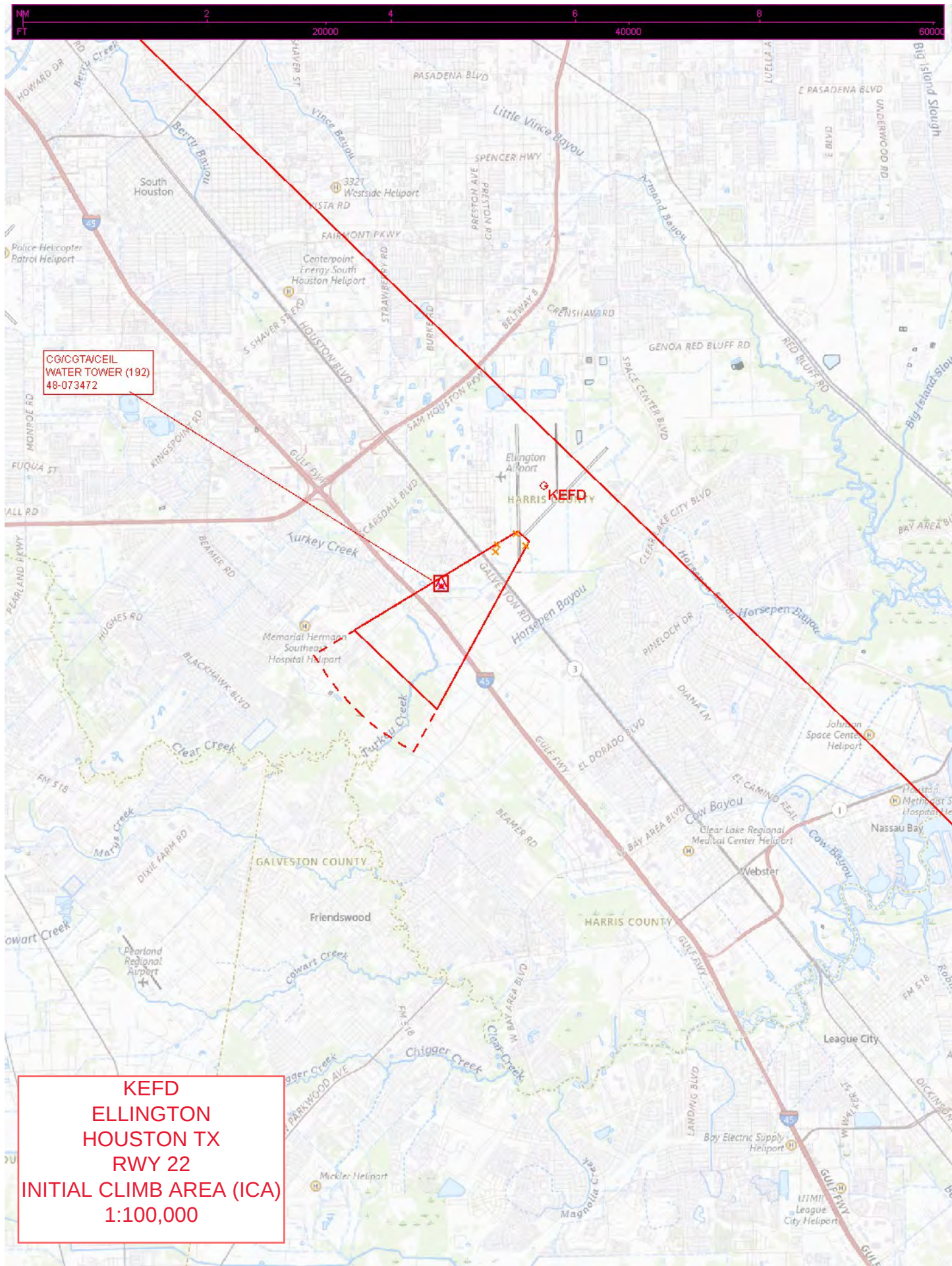








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CG/CGTA/CEILVIS STACK (334)
48-001715

1 TRINITY
114.75 Cb 84 MHE

OR-DME
CHOLES

GALVESTON 209B AWOS-3 118.25 GV



KT41
LA PORTE MUNI
LA PORTE TX
RWY 5
INITIAL CLIMB AREA (ICA)
1:100,000

CG/CGT/CEILVIS STACK (334)
48-001715

