

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

3a. Address

3b. Phone No. (include area code)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

9. API Well No.

10. Field and Pool or Exploratory Area

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

TO: E-36-20S-32E; 2631 FNL, 335 FWL

INTERMEDIATE #2 CASING POINT

FROM: 4700'

TO: 5286' W/ DV TOOL @ 3591'

PRODUCTION CASING

FROM: 17# P-110 LTC

TO: 20# P-110 RY VARN

Location of Well

0. SHL: NWNW / 306 FNL / 339 FWL / TWSP: 20S / RANGE: 32E / SECTION: 24 / LAT: 32.5650843 / LONG: -103.7272428 (TVD: 0 feet, MD: 0 feet)
PPP: NWNW / 0 FNL / 1030 FWL / TWSP: 20S / RANGE: 32E / SECTION: 36 / LAT: 32.536862 / LONG: -103.724979 (TVD: 11054 feet, MD: 21200 feet)
PPP: NWNW / 0 FNL / 1026 FWL / TWSP: 20S / RANGE: 32E / SECTION: 25 / LAT: 32.551368 / LONG: -103.724988 (TVD: 10956 feet, MD: 15900 feet)
PPP: NWSW / 2642 FNL / 1028 FWL / TWSP: 20S / RANGE: 32E / SECTION: 24 / LAT: 32.558641 / LONG: -103.724992 (TVD: 10908 feet, MD: 13300 feet)
PPP: SWNW / 1327 FNL / 1030 FWL / TWSP: 20S / RANGE: 32E / SECTION: 24 / LAT: 32.562278 / LONG: -103.724994 (TVD: 10882 feet, MD: 11900 feet)
BHL: SWNW / 2631 FNL / 1030 FWL / TWSP: 20S / RANGE: 32E / SECTION: 36 / LAT: 32.5296549 / LONG: -103.7249748 (TVD: 11102 feet, MD: 23818 feet)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-50827		2 Pool Code 53560	3 Pool Name SALT LAKE; BONE SPRING
4 Property Code 333575	5 Property Name PAKSE SOUTH FED COM		6 Well Number 321H
7 OGRID No. 361165	8 Operator Name EARTHSTONE OPERATING LLC		9 Elevation 3537'

¹⁰ Surface Location

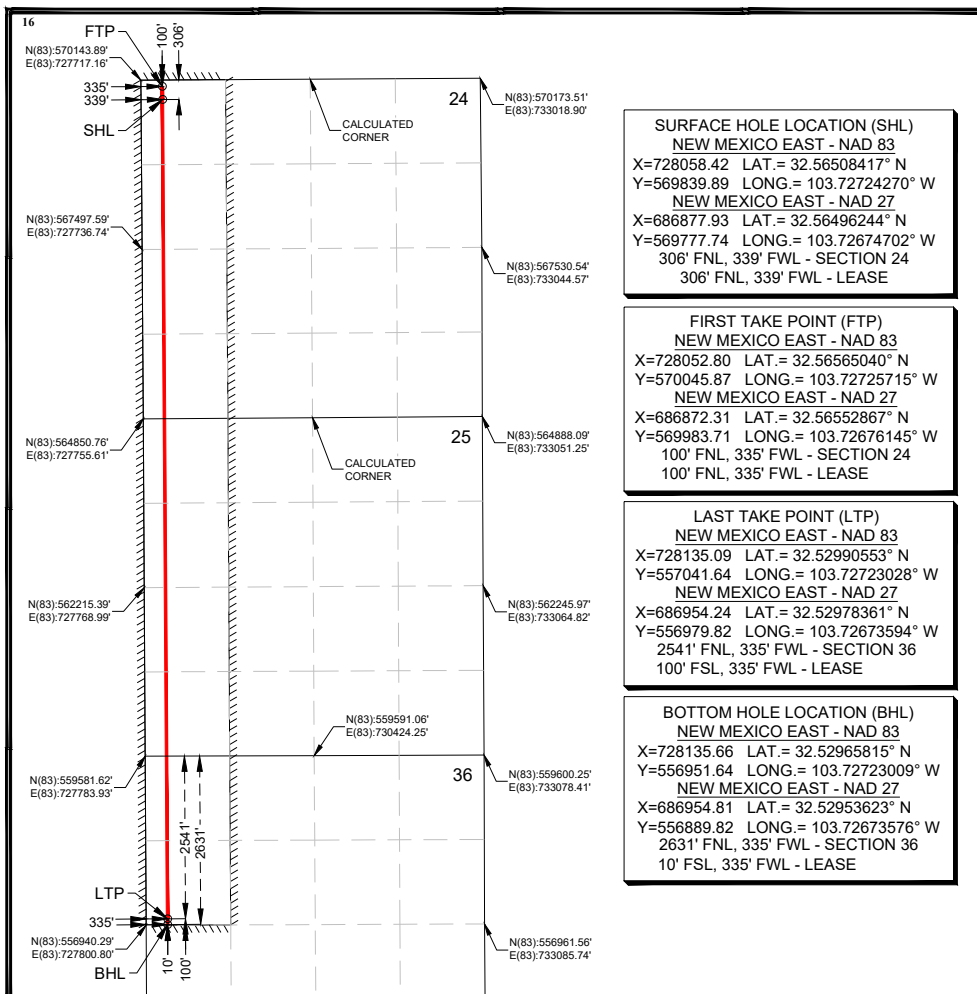
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	24	20-S	32-E		306'	NORTH	339'	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	36	20-S	32-E		2631'	NORTH	335'	WEST	LEA

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
400	Y		

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

order heretofore entered by the division.

 12/02/2022

Signature Date

Signature _____ Date _____

JENNIFER ELROD

Printed Name _____

JELROD@EARTHSTONEENERGY.COM

E-mail Address _____

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

11/17/2022

Date of Survey

Signature and Seal of Professional Surveyor:

Signature and Seal of Professional Surveyor:

25490

PROFESSIONAL SURVEYOR

Harold J. Ivica

Certificate Number

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

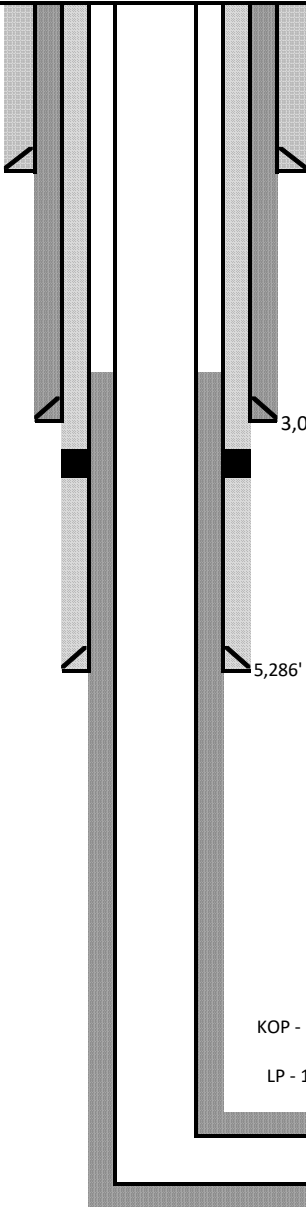
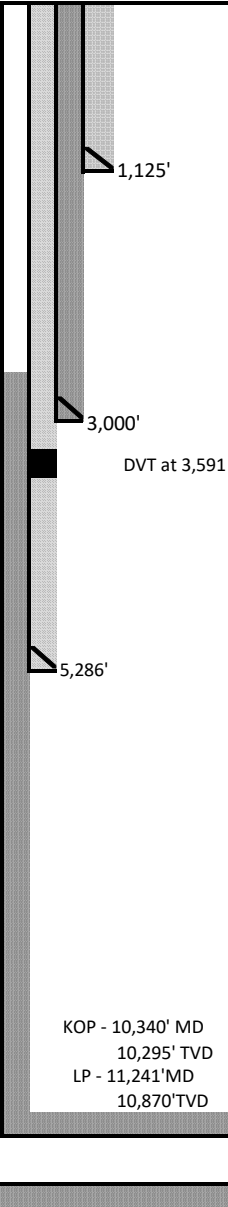
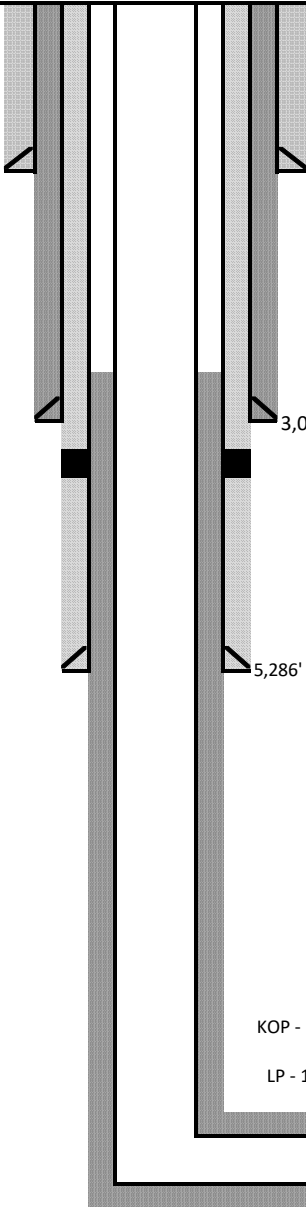
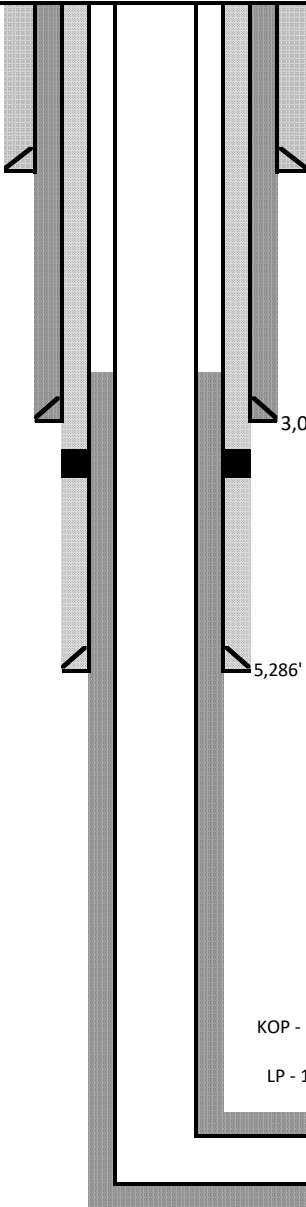
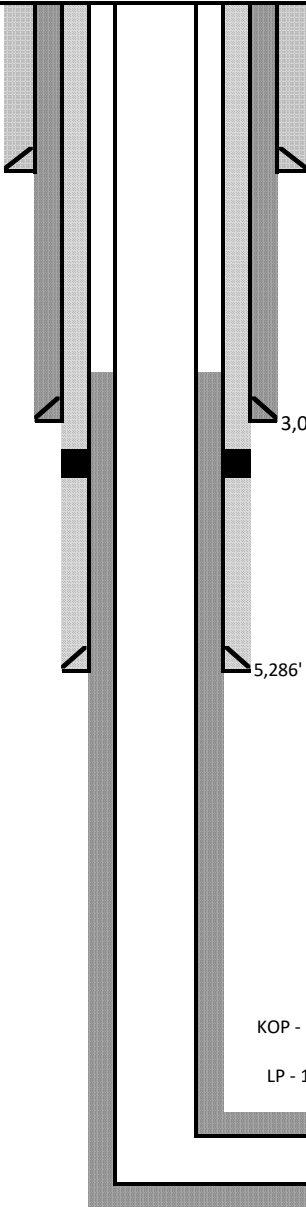
Casing Program: Paske South Fed Com 321H

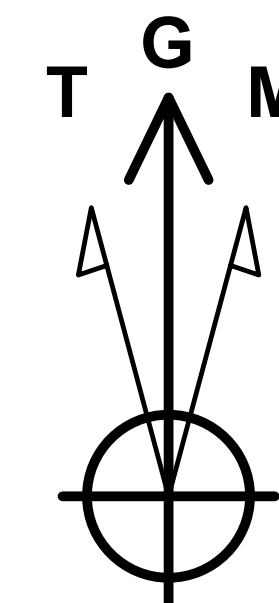
Open Hole Size (Inches)	Casing Depth; From (ft)	Casing Setting Depth (ft) MD	Casing Setting Depth (ft) TVD	Casing Size (inches)	Casing Weight (lb/ft)	Casing Grade	Thread	Condition	Anticipated Mud Weight (ppg)	Burst (psi)	Burst SF (1.125)	Collapse (psi)	Collapse SF (1.125)	Pipe Body Tension (lbs)	Joint Tension (lbs)	Air Weight (lbs)	Bouyant Weight (lbs)	Pipe Body Tension SF (1.8)	Joint Tension SF (1.8)
Surface																			
17.5	0'	1,125'	1,125'	13.375	54.5	J-55	BTC	New	8.6	2,740	5.45	1,130	3.37	1,480,000	1,402,000	61,313	53,255	27.79	26.33
Intermediate 1																			
12.25	0'	3,000'	3,000'	10.75	45.5	HCL80	BTC - SCC	New	10.2	5,210	3.27	2,940	3.70	853,000	909,000	136,500	115,224	7.40	7.89
Intermediate 2																			
9.875	0'	5,286'	5,286'	8.625	32	L80 EHC	BTC	New	8.4	5,890	2.55	4,100	2.66	630,000	520,000	169,152	147,439	4.27	3.53
Production																			
7.875	0'	23,813'	11,102'	5 1/2"	20	P110 RY	VARN	New	9.8	12,640	2.23	13,300	2.35	641,000	667,000	222,040	188,788	3.40	3.53

Casing Design Criteria and Casing Loading Assumptions:	
<u>Surface</u>	
Tension A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	8.6 ppg
Collapse A 1.125 design factor with 1/3 TVD internal evacuation and collapse force equal to a mud gradient of:	8.6 ppg
Burst A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	8.6 ppg
<u>Intermediate 1</u>	
Tension A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	10.2 ppg
Collapse A 1.125 design factor with 1/2 TVD internal evacuation and collapse force equal to a mud gradient of:	10.2 ppg
Burst A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	10.2 ppg
<u>Intermediate 2</u>	
Tension A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	8.4 ppg
Collapse A 1.125 design factor with 1/3 TVD internal evacuation and collapse force equal to a mud gradient of:	8.4 ppg
Burst A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	8.4 ppg
<u>Production</u>	
Tension A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	9.8 ppg
Collapse A 1.125 design factor with full internal evacuation and collapse force equal to a mud gradient of:	9.8 ppg
Burst A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	9.8 ppg

API # 30-025-50827

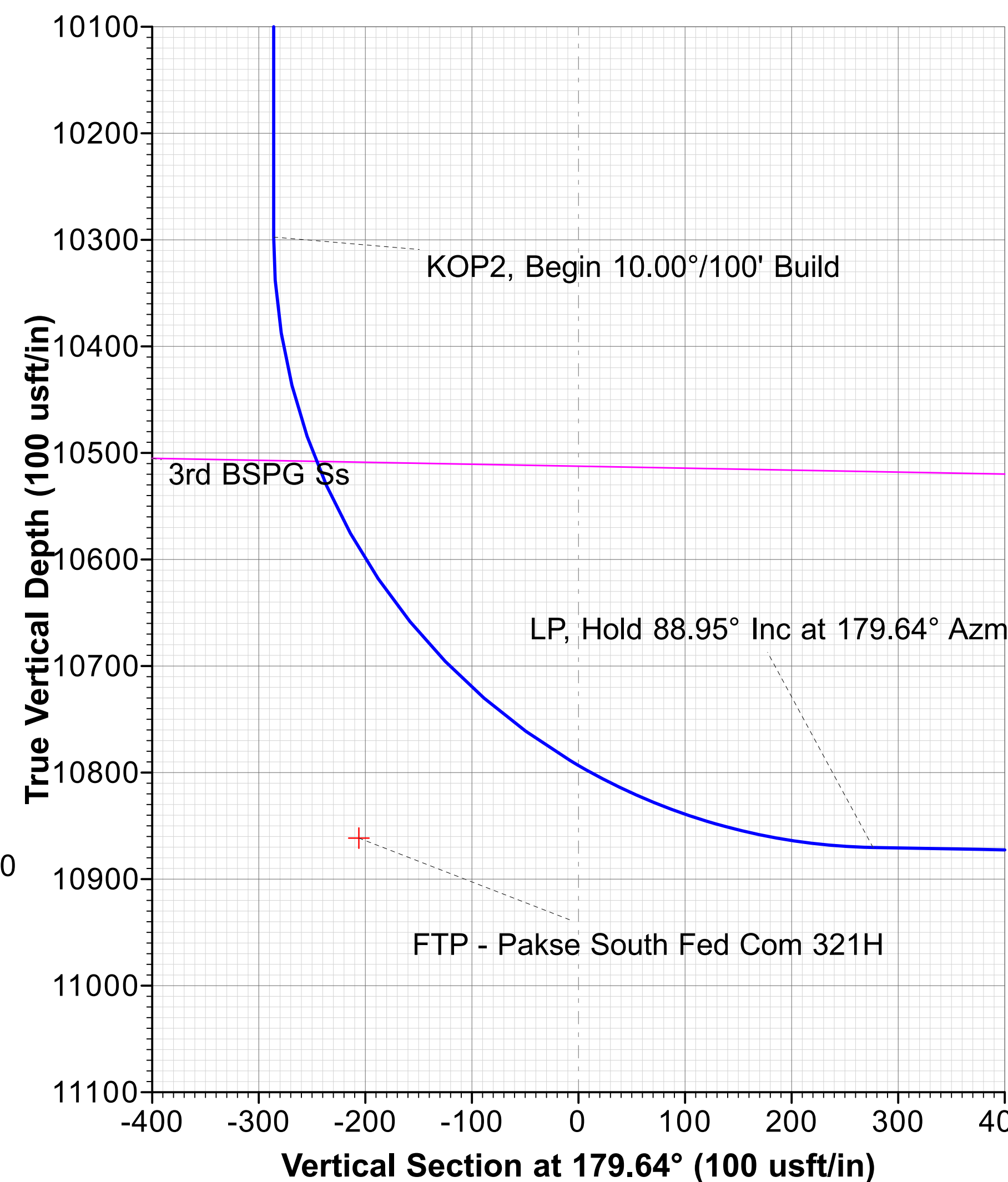
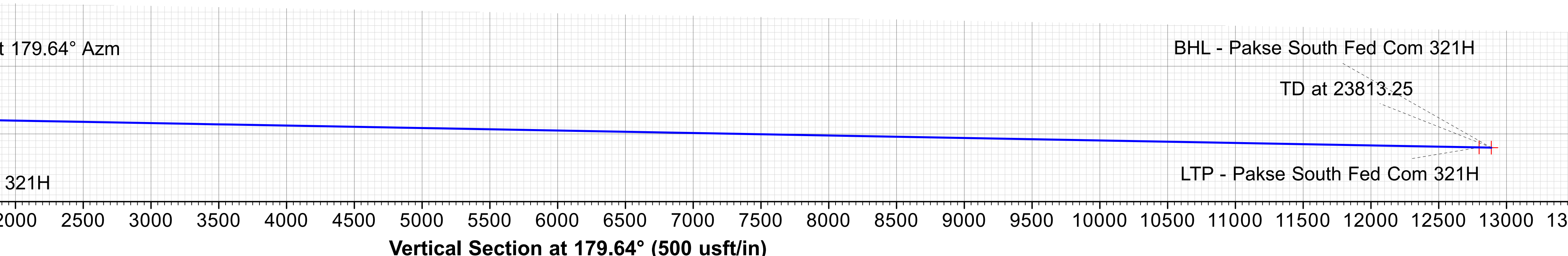
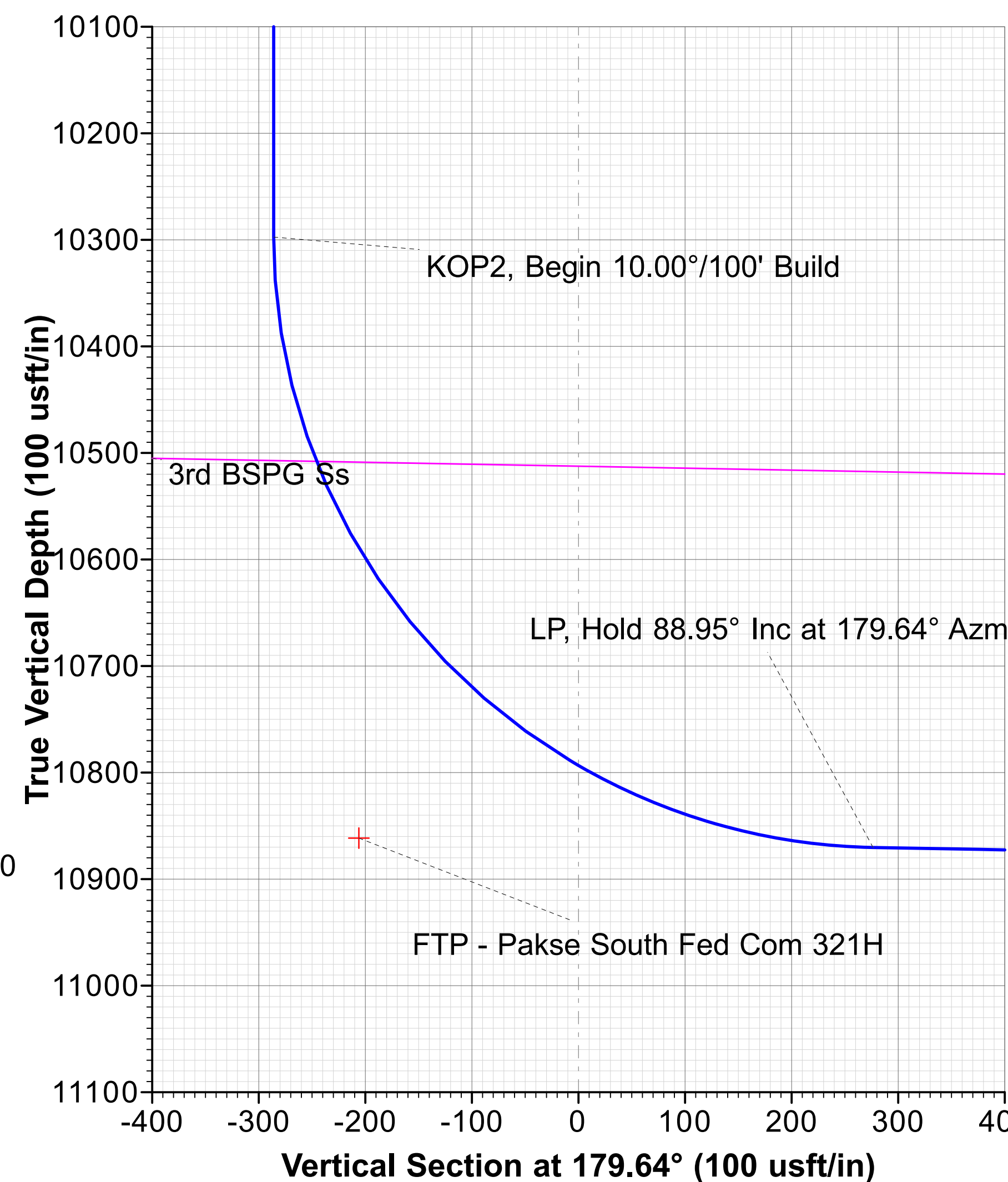
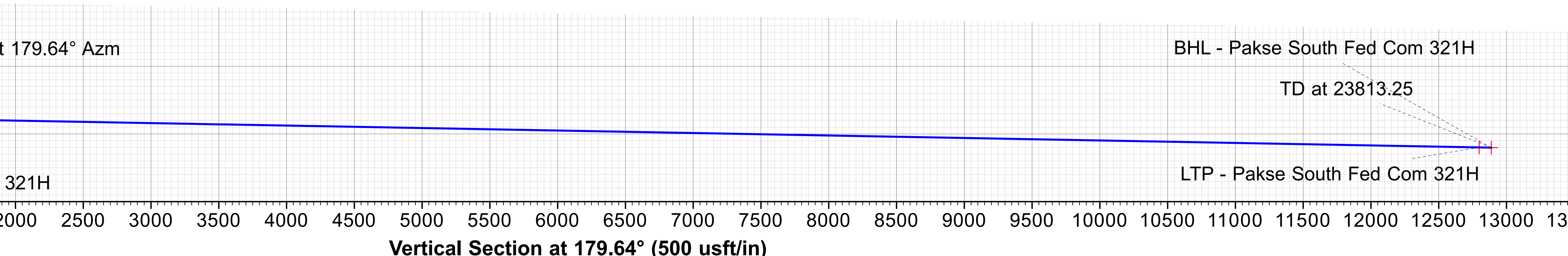
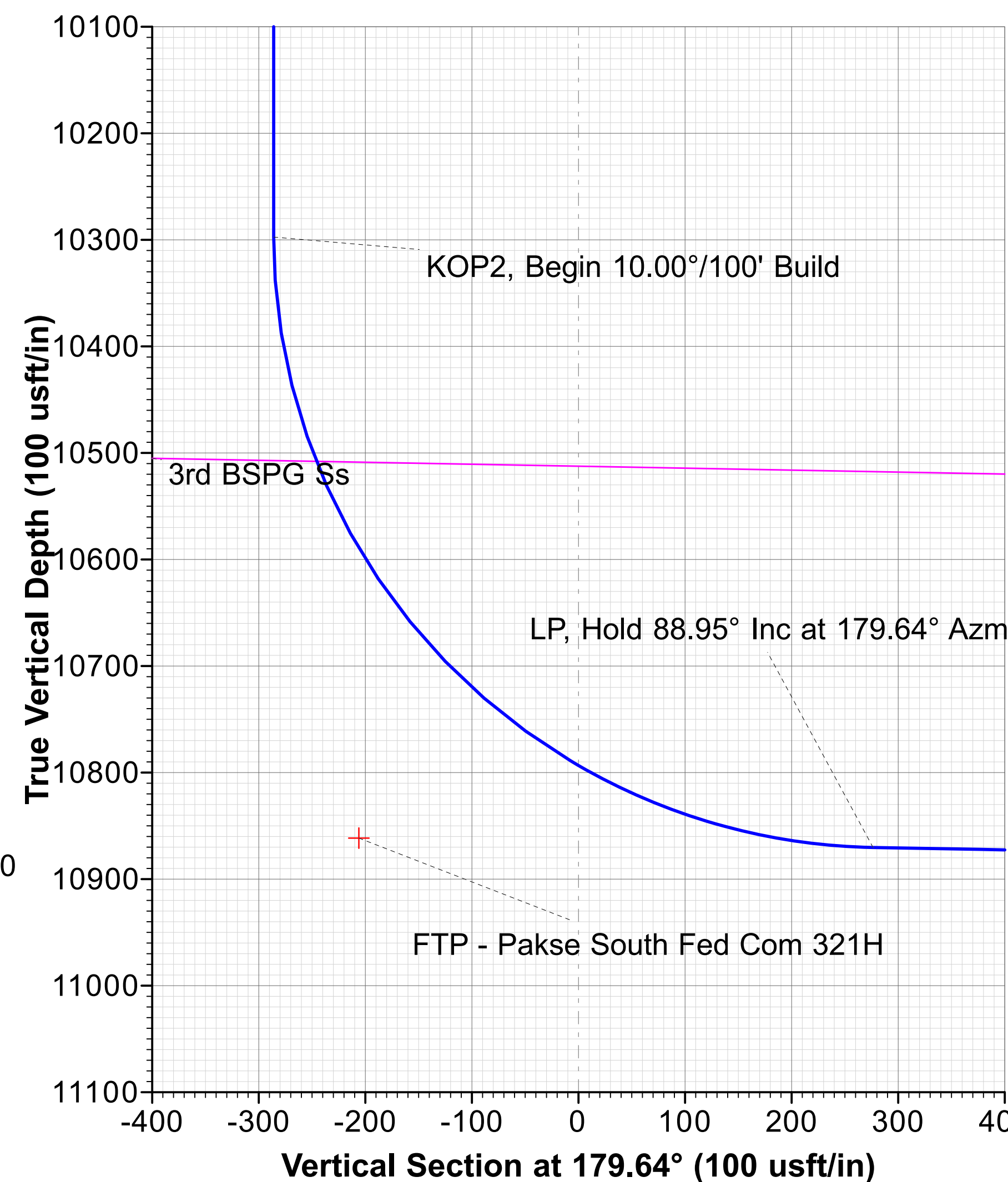
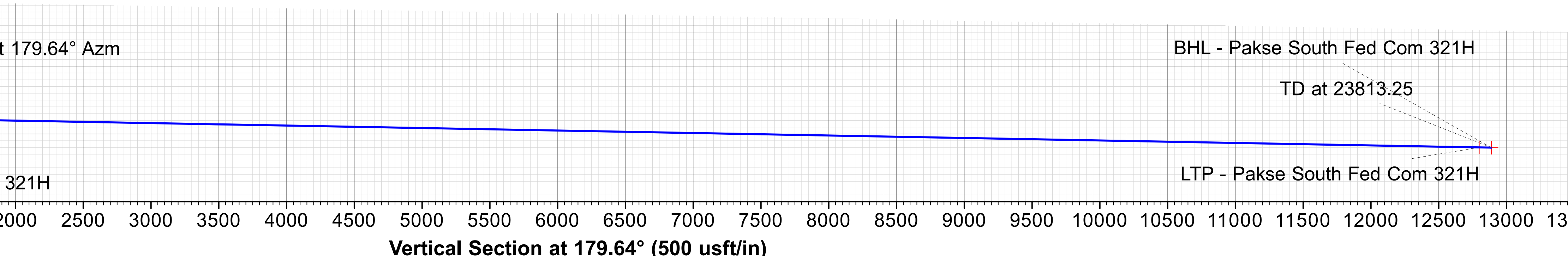
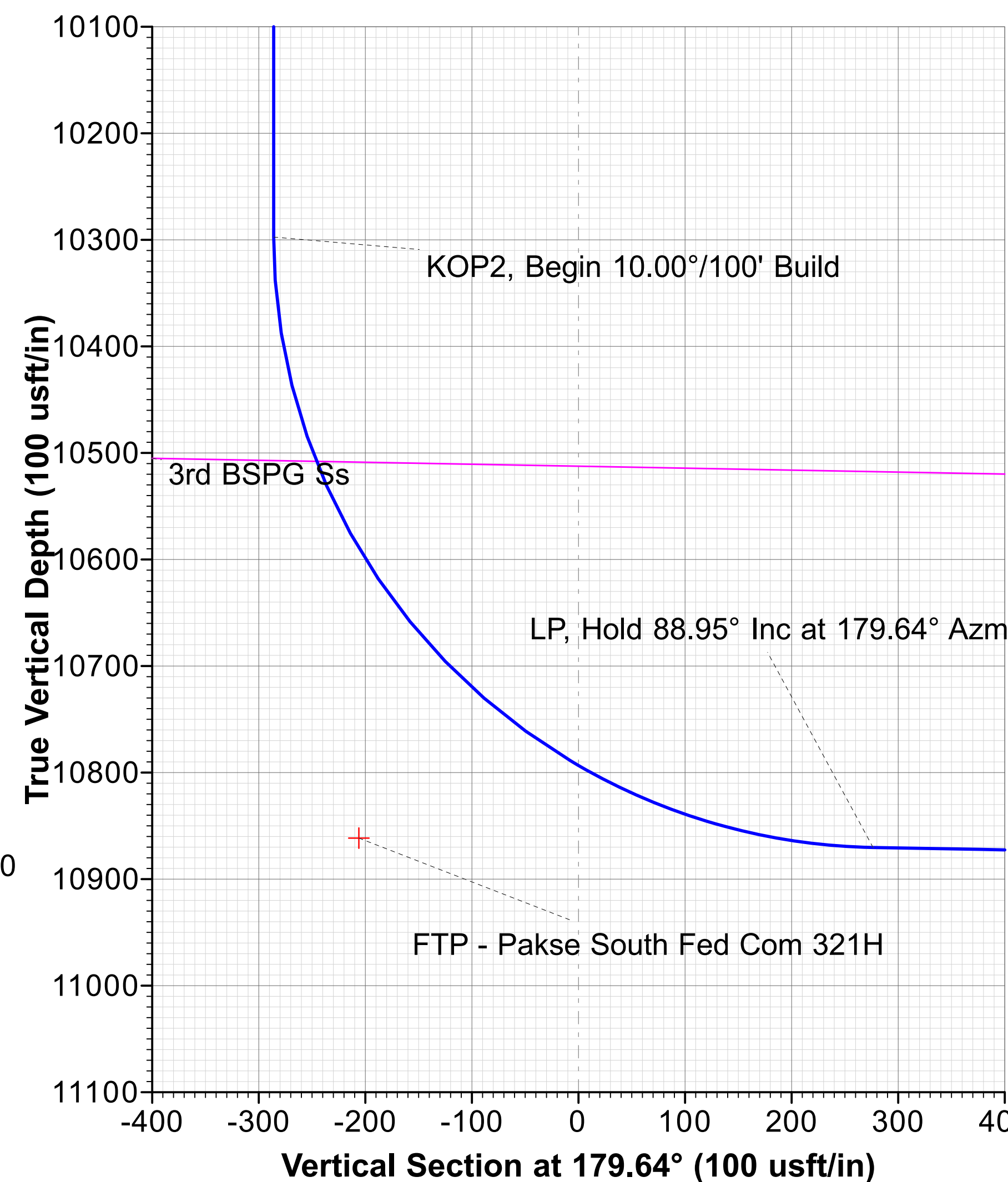
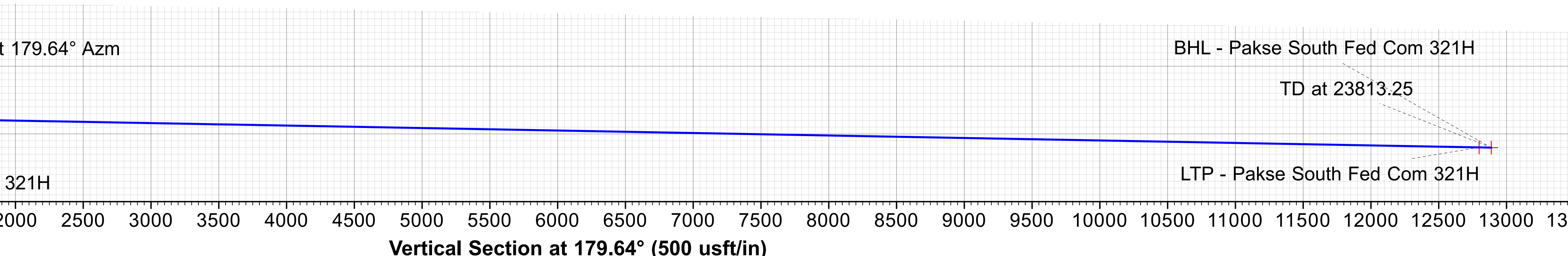
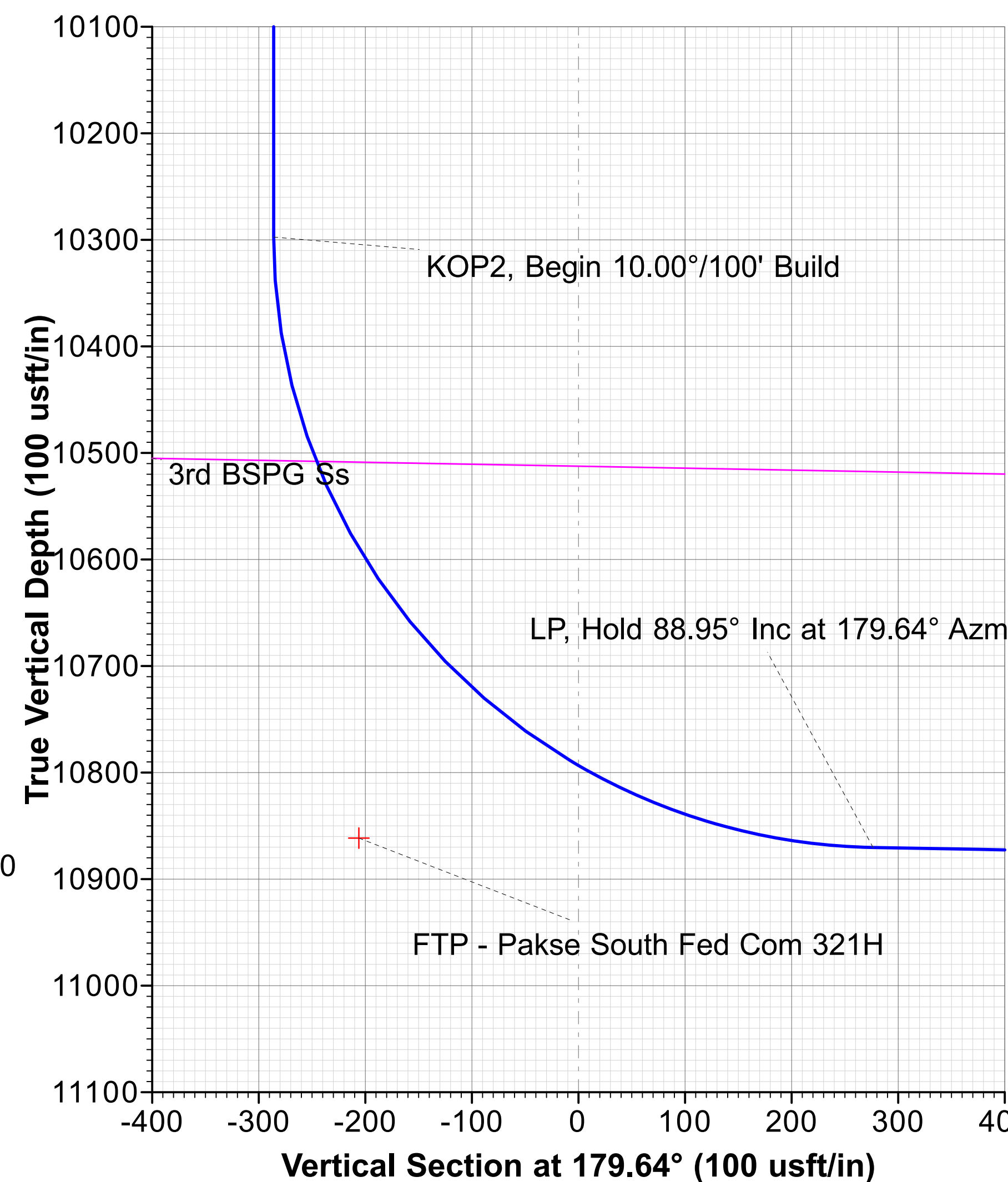
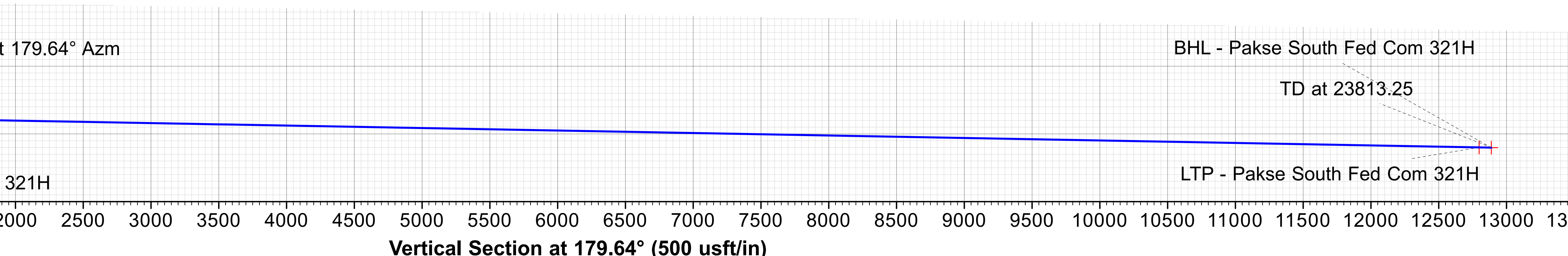
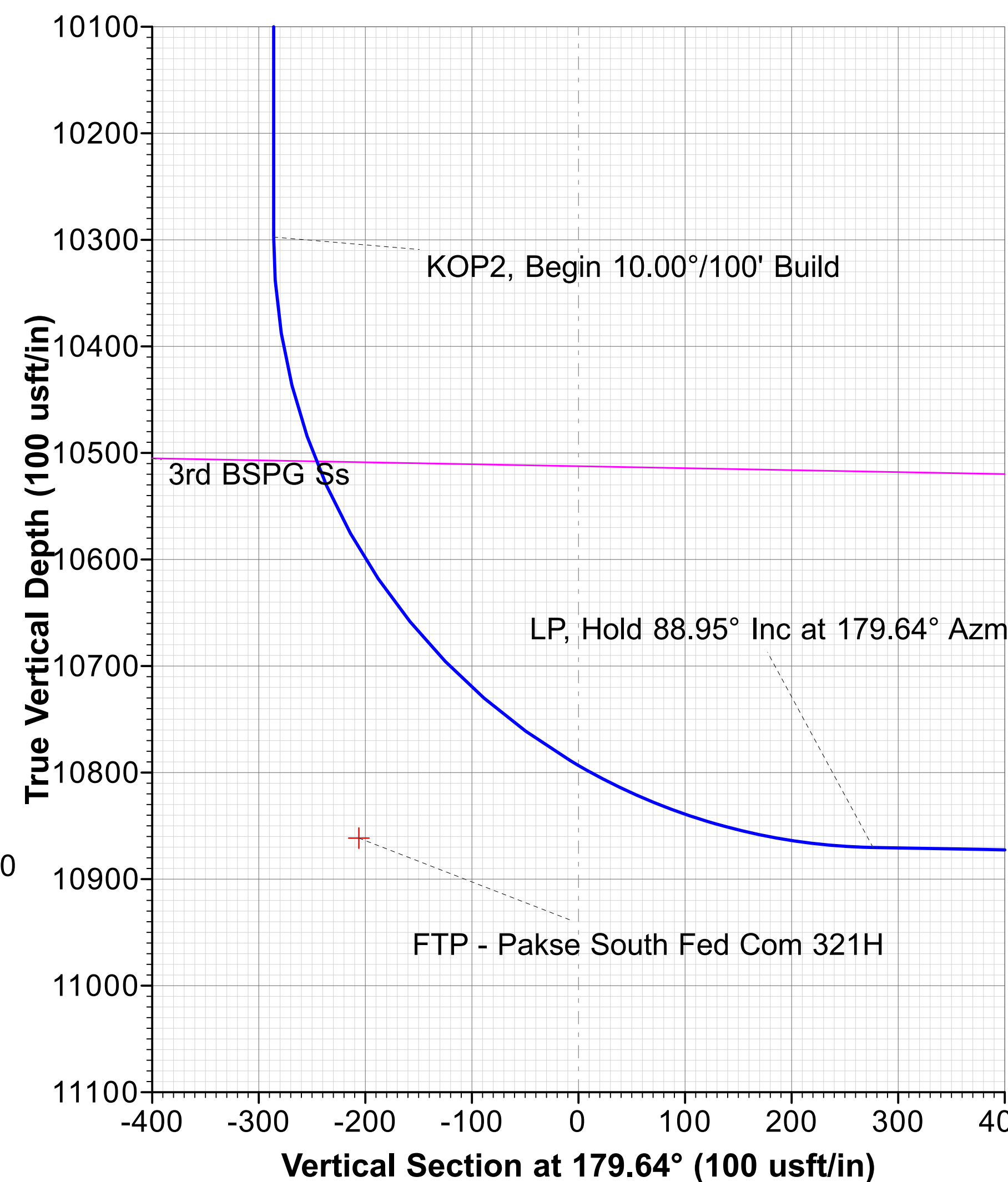
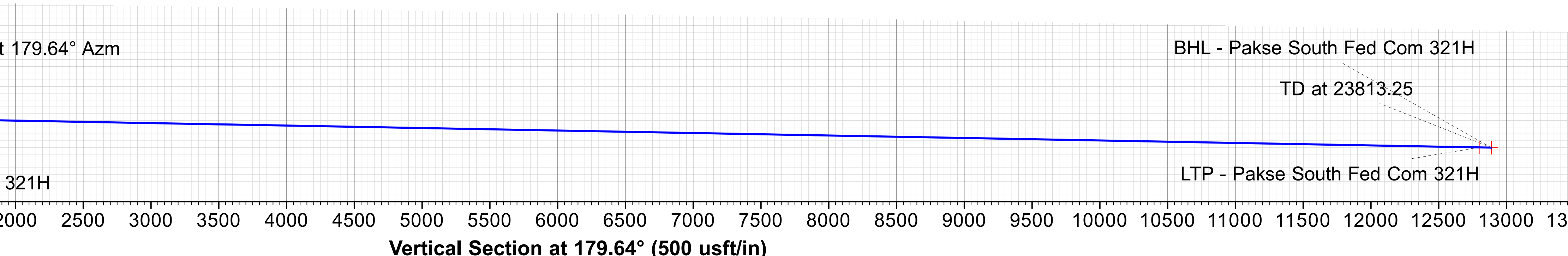
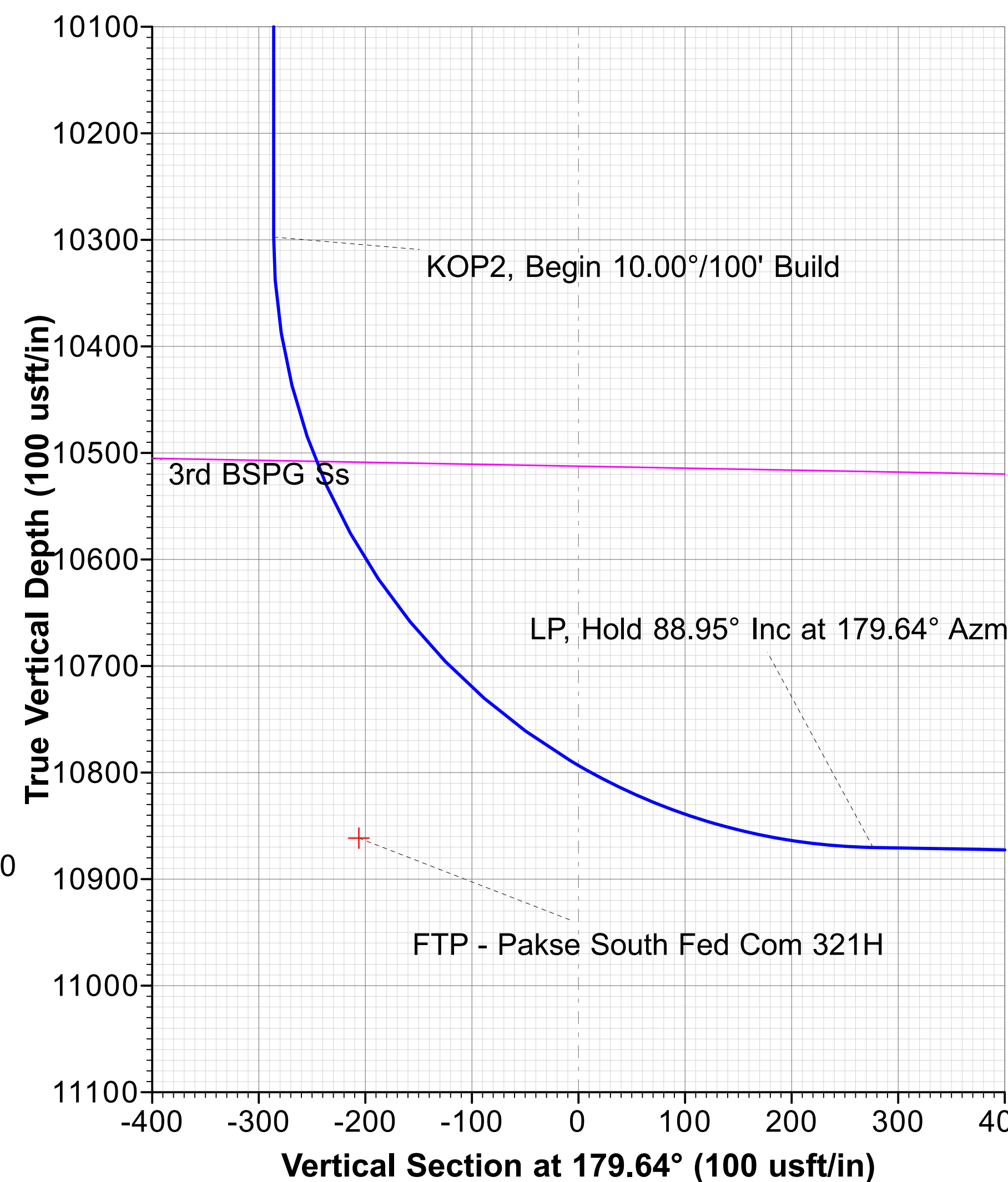
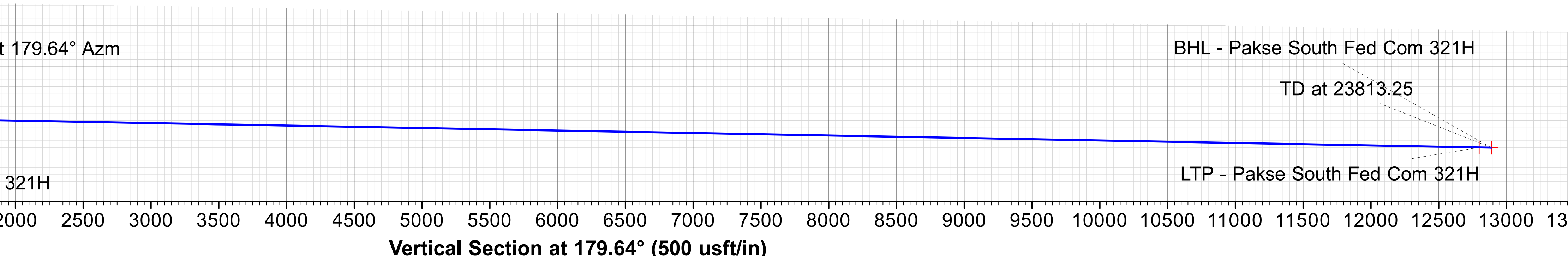
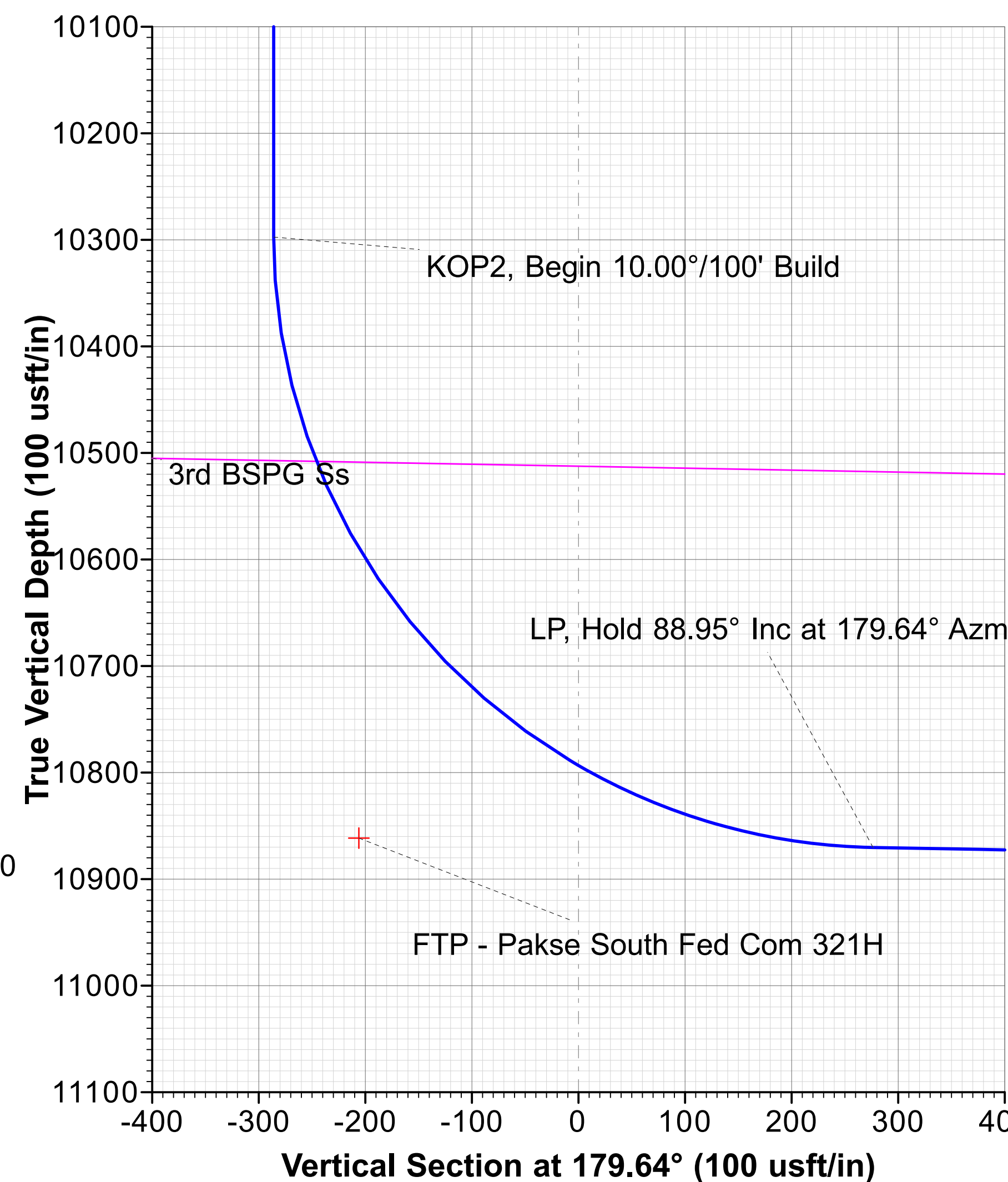
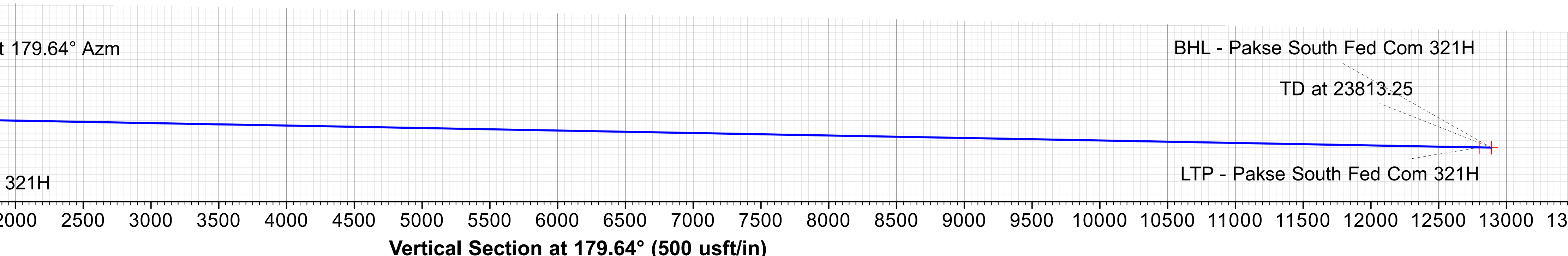
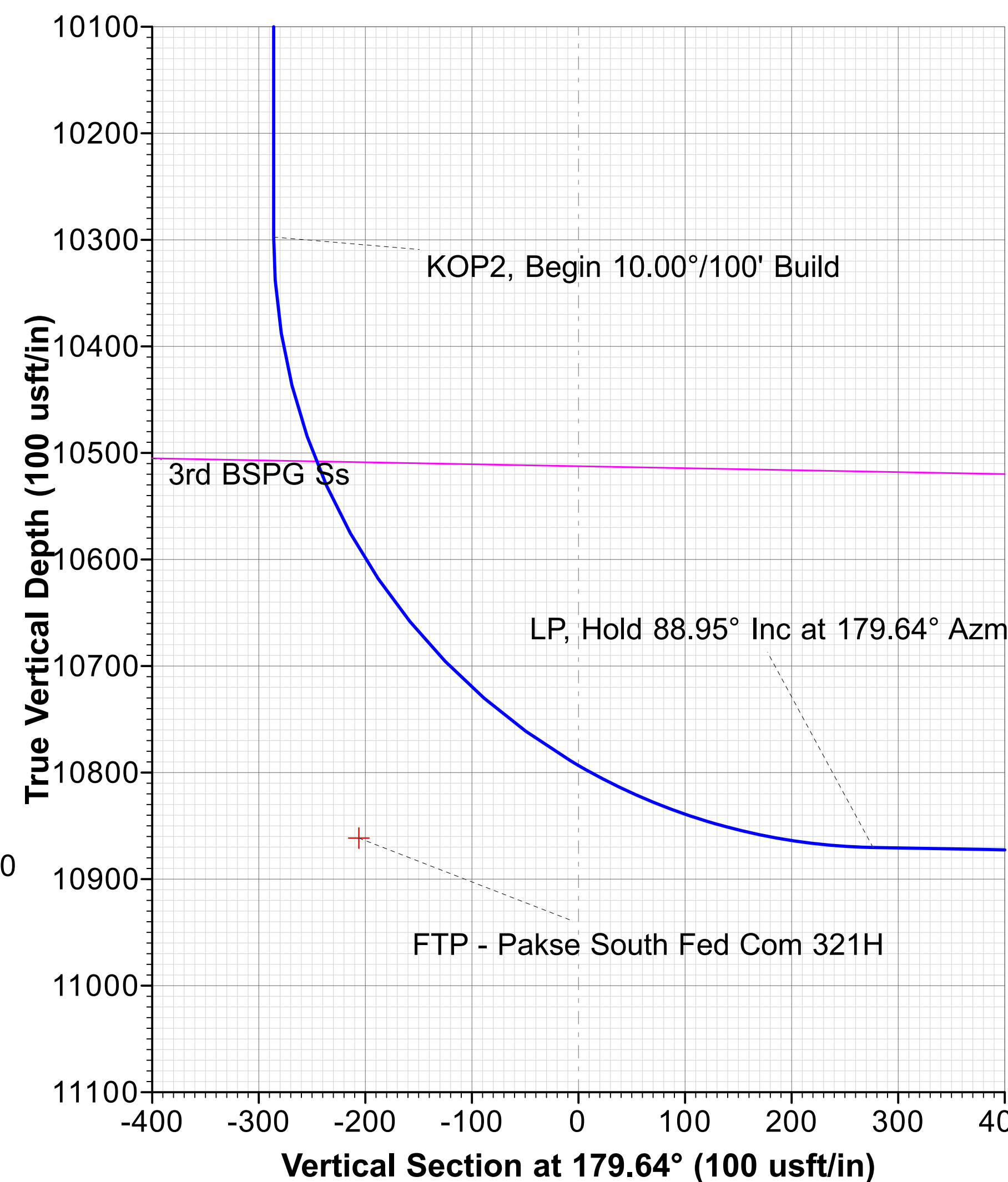
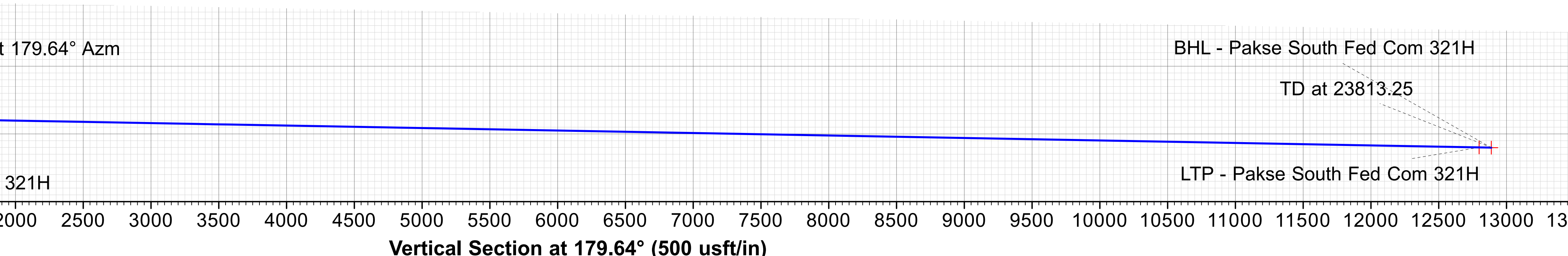
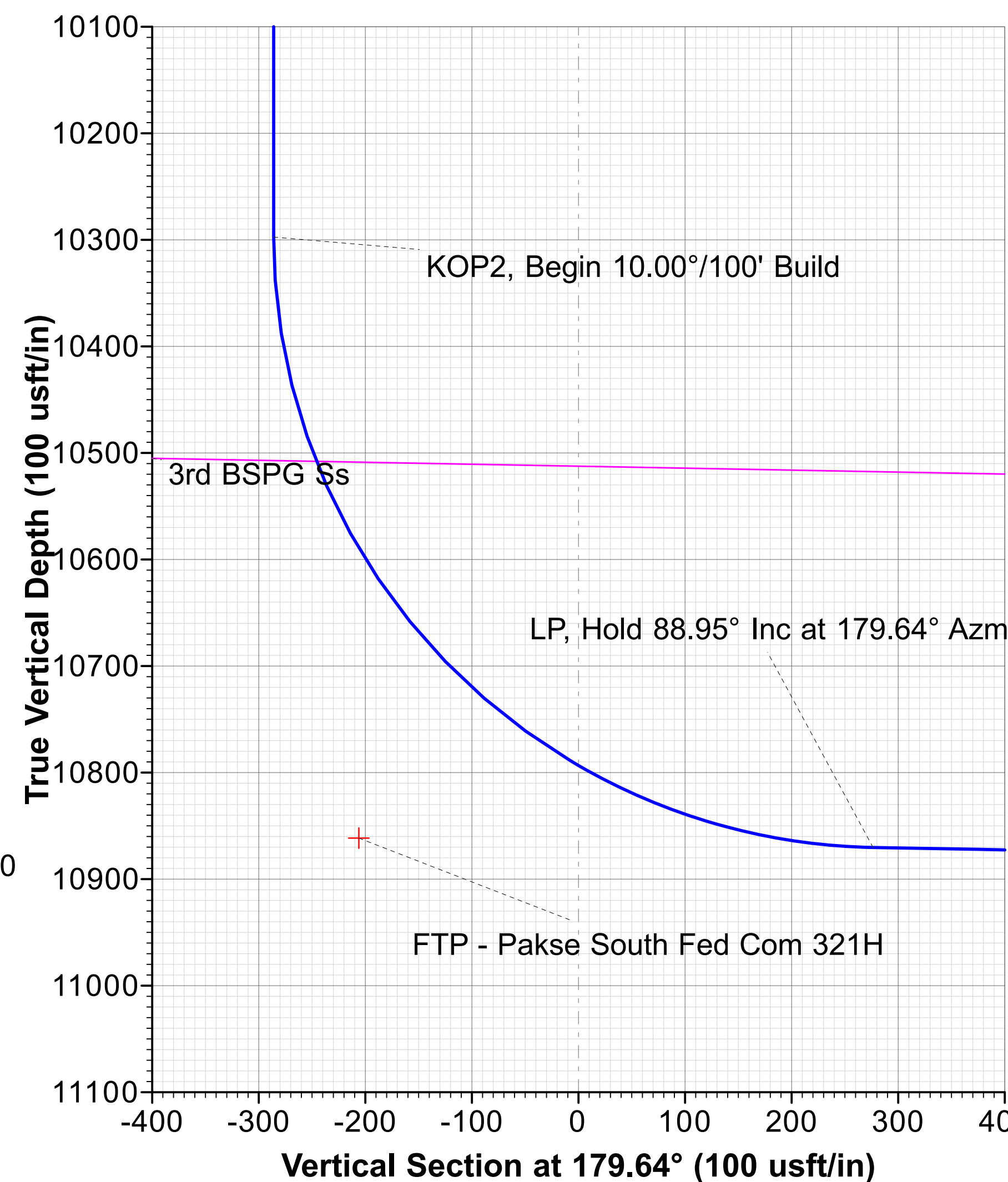
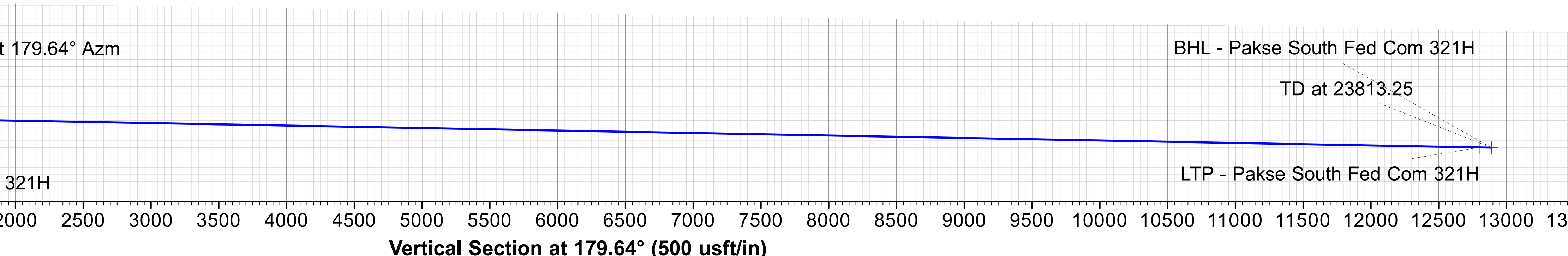
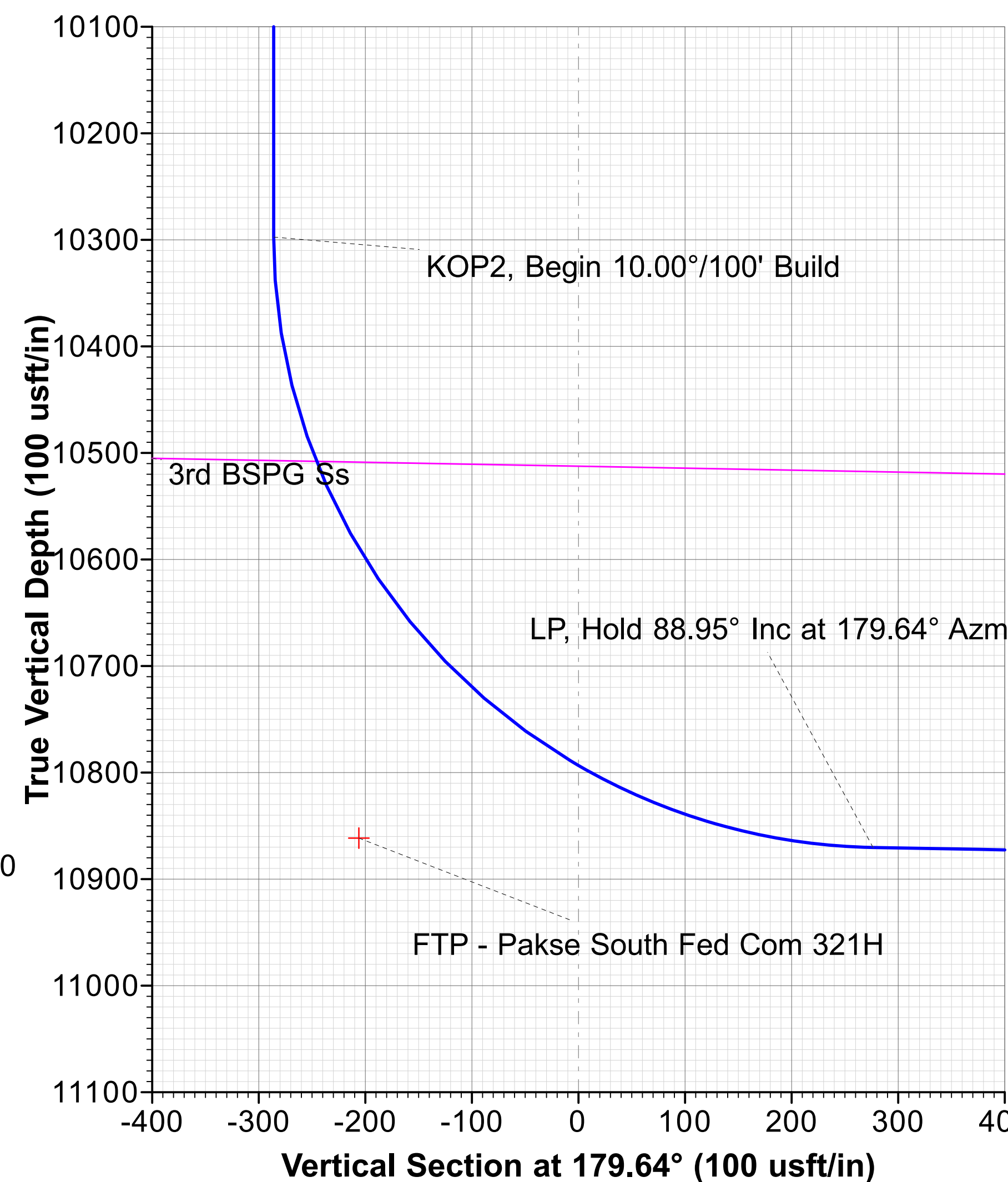
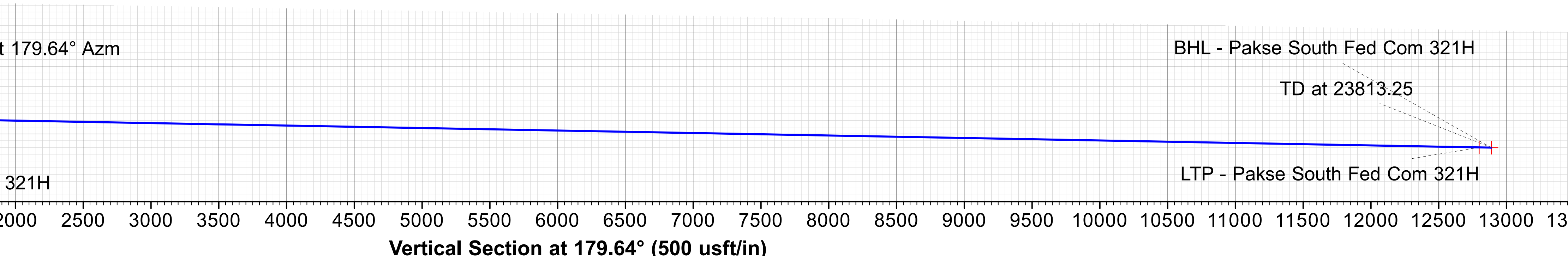
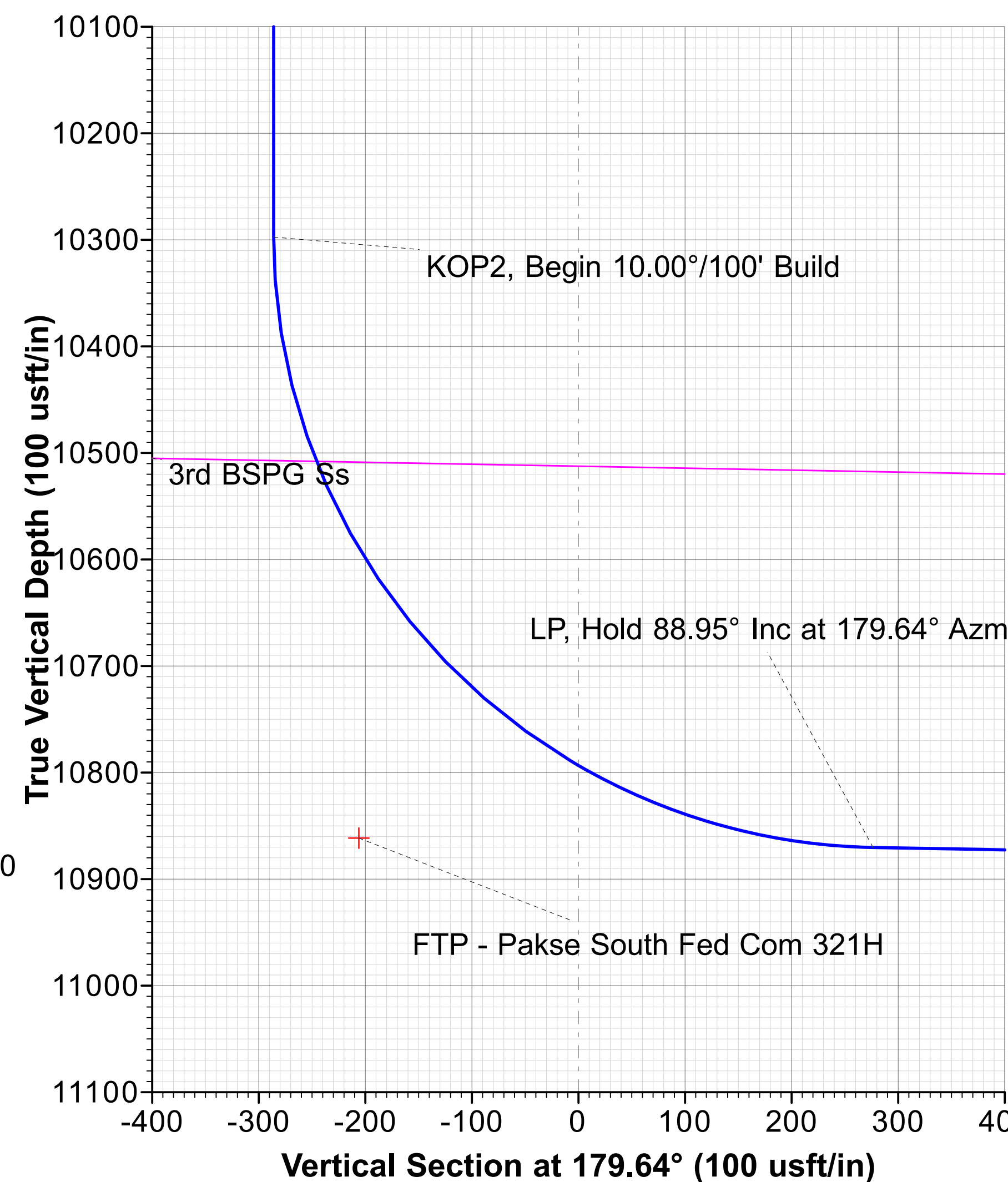
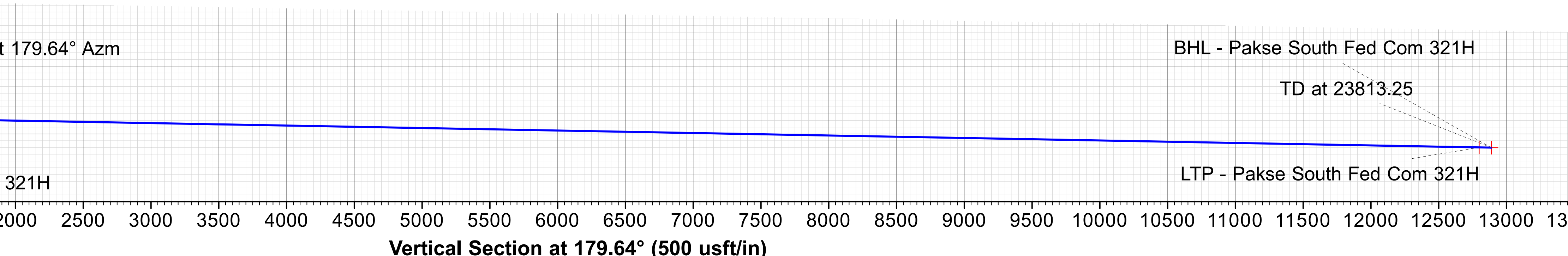
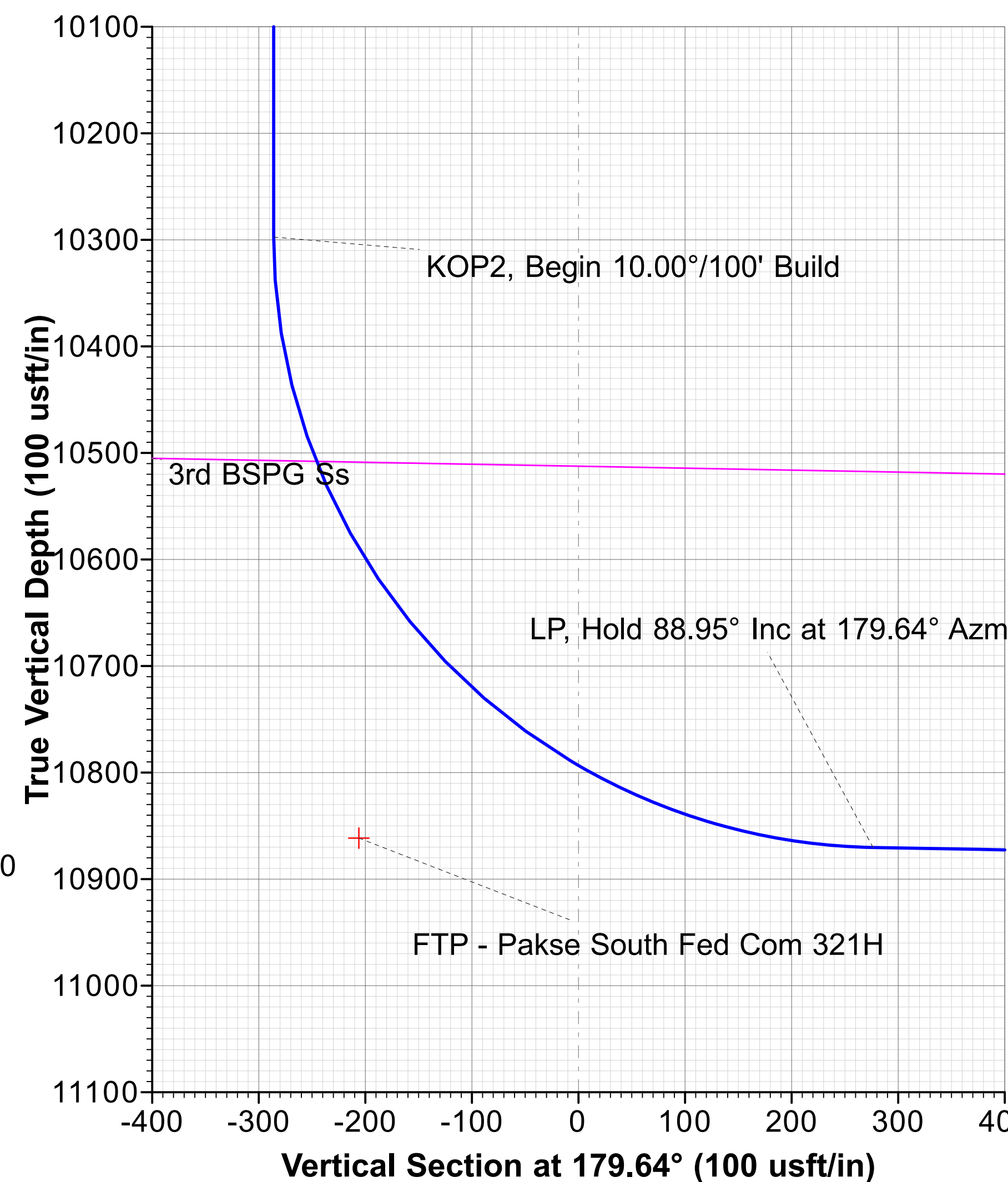
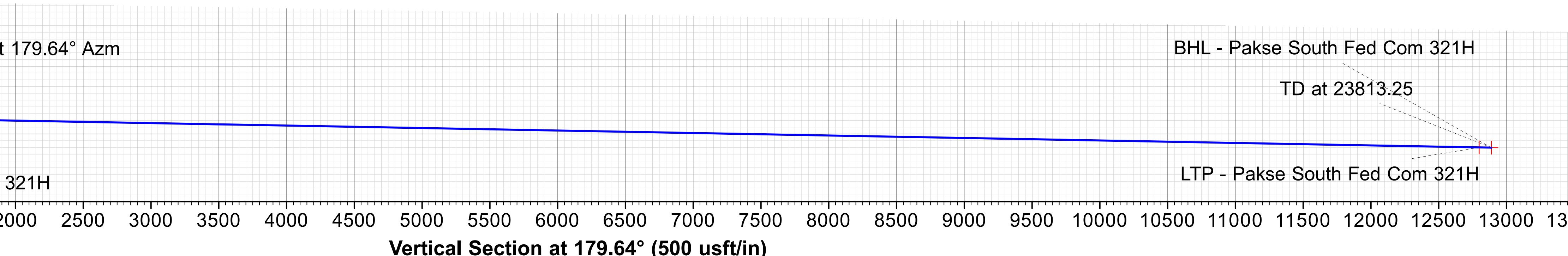
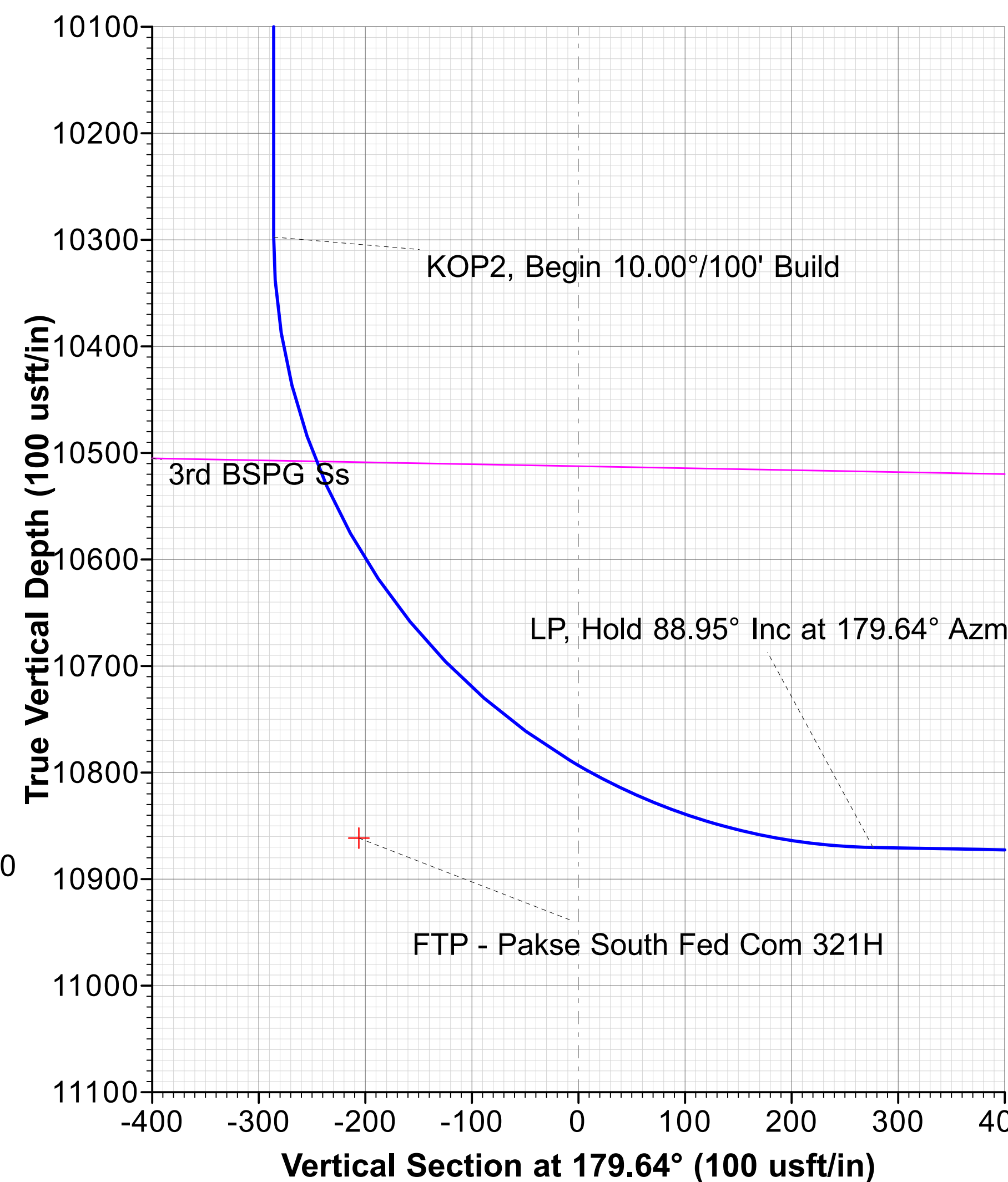
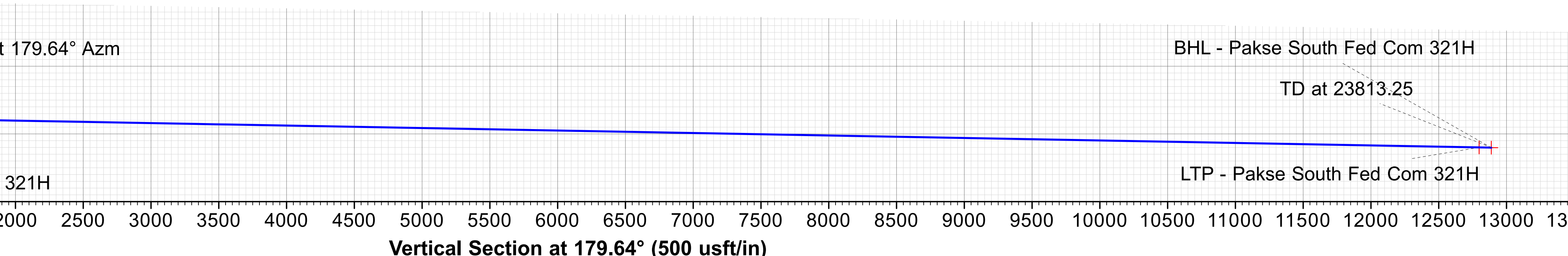
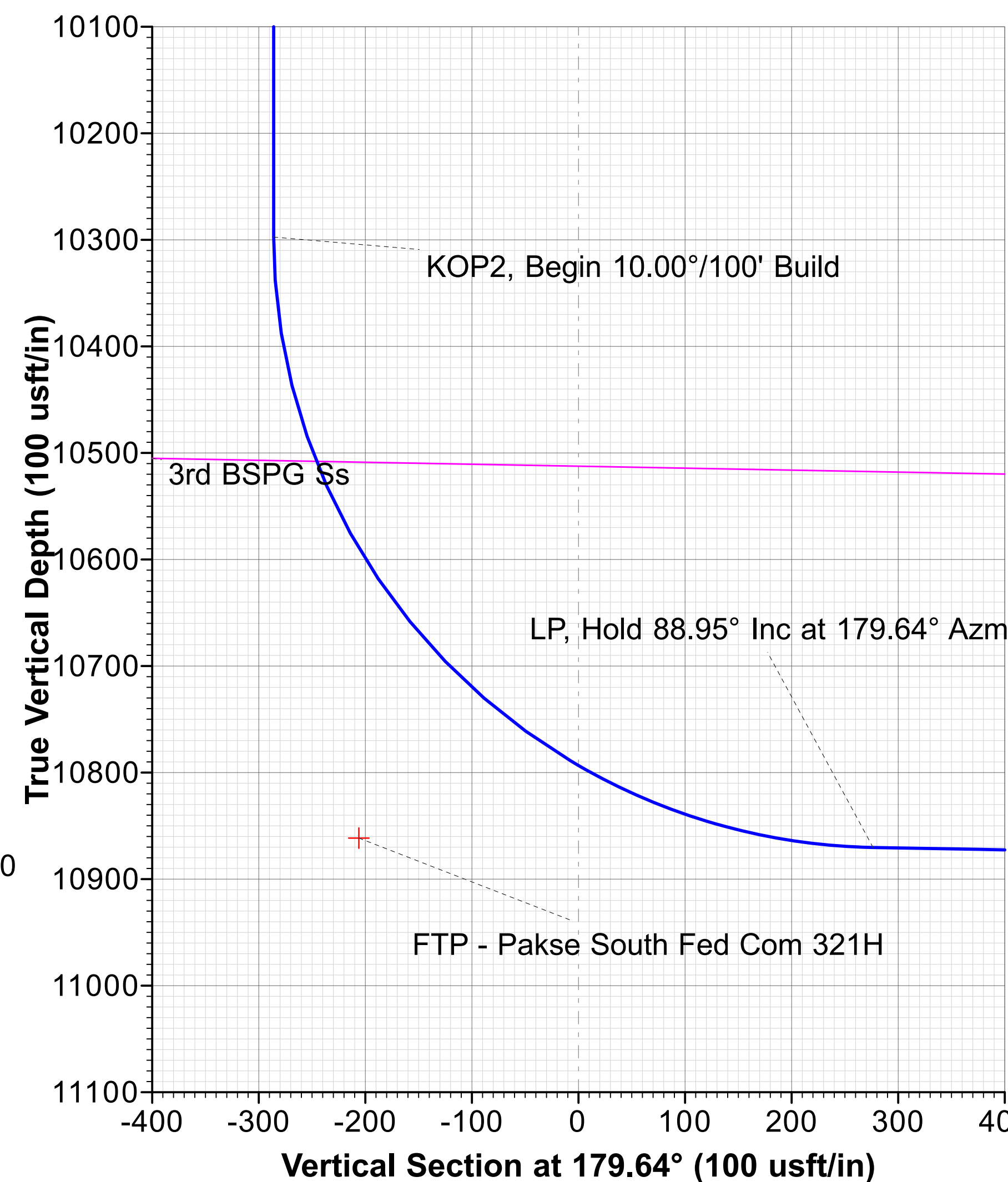
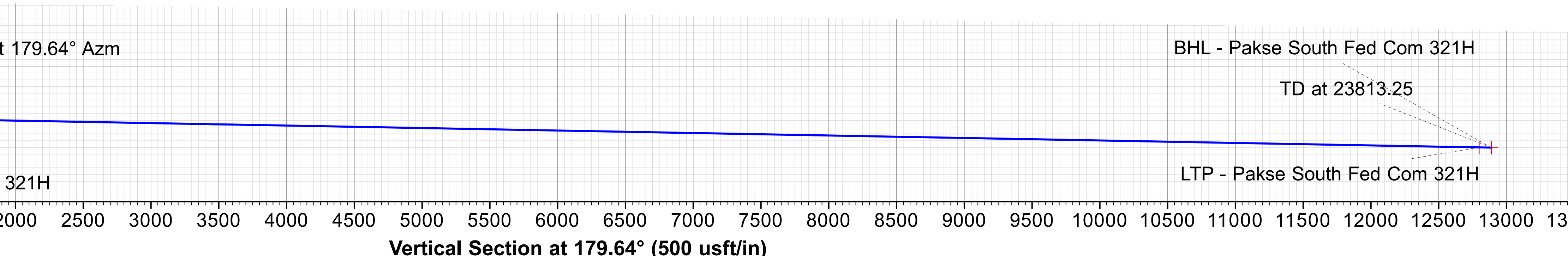
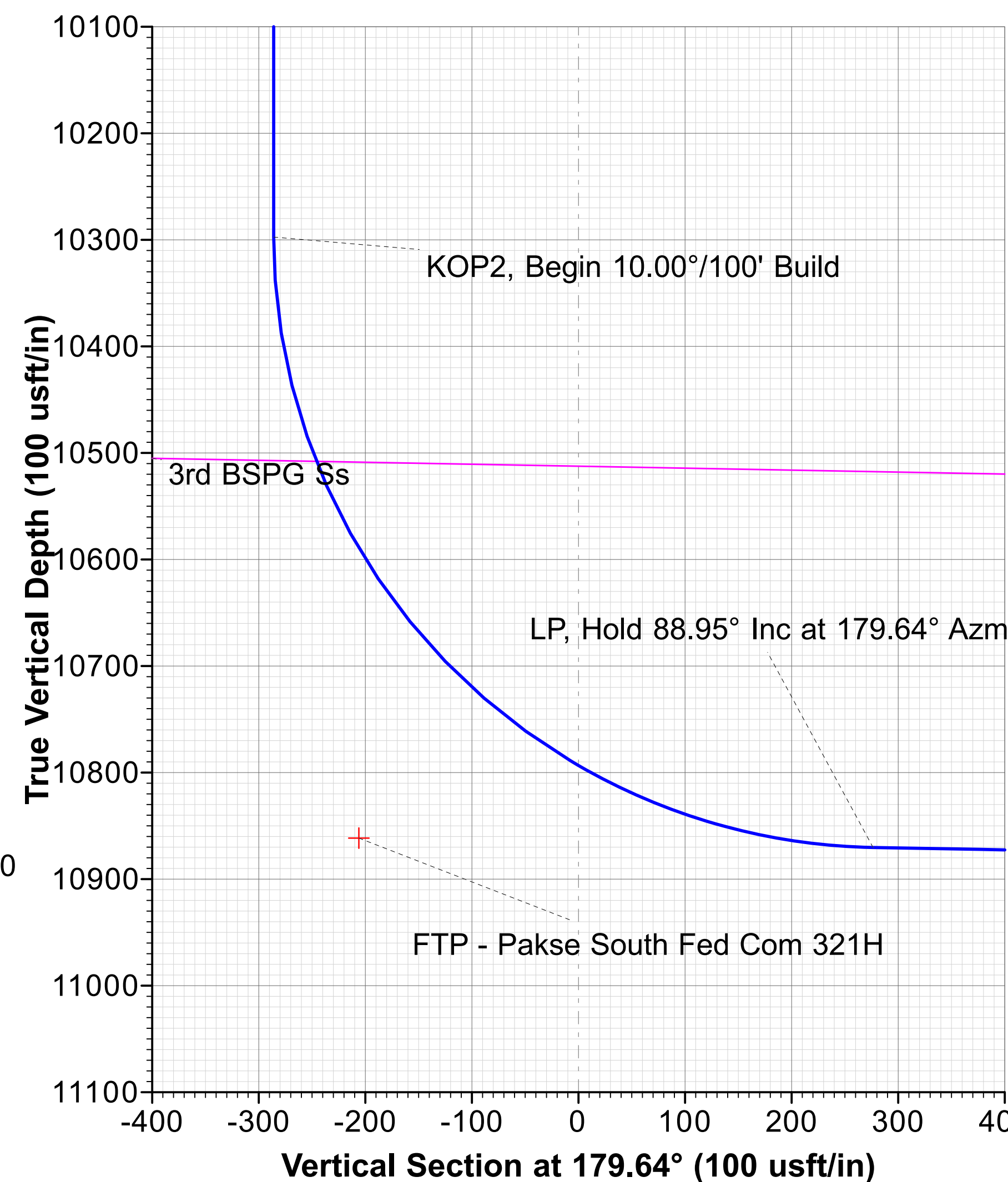
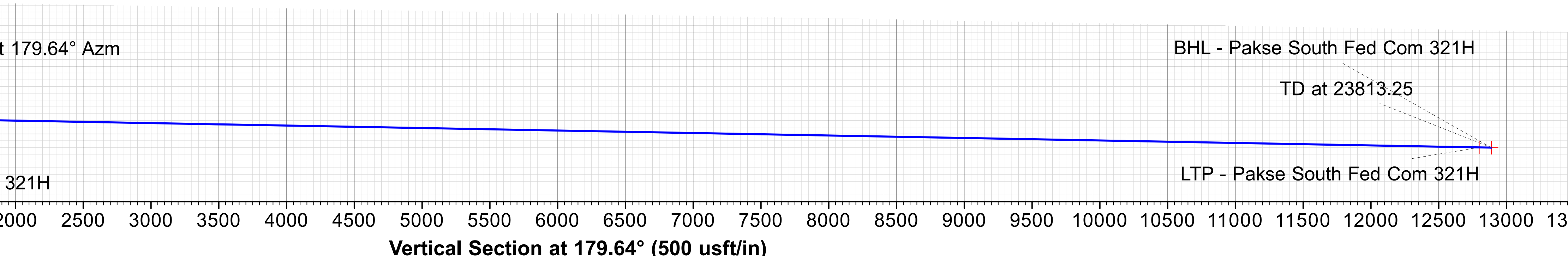
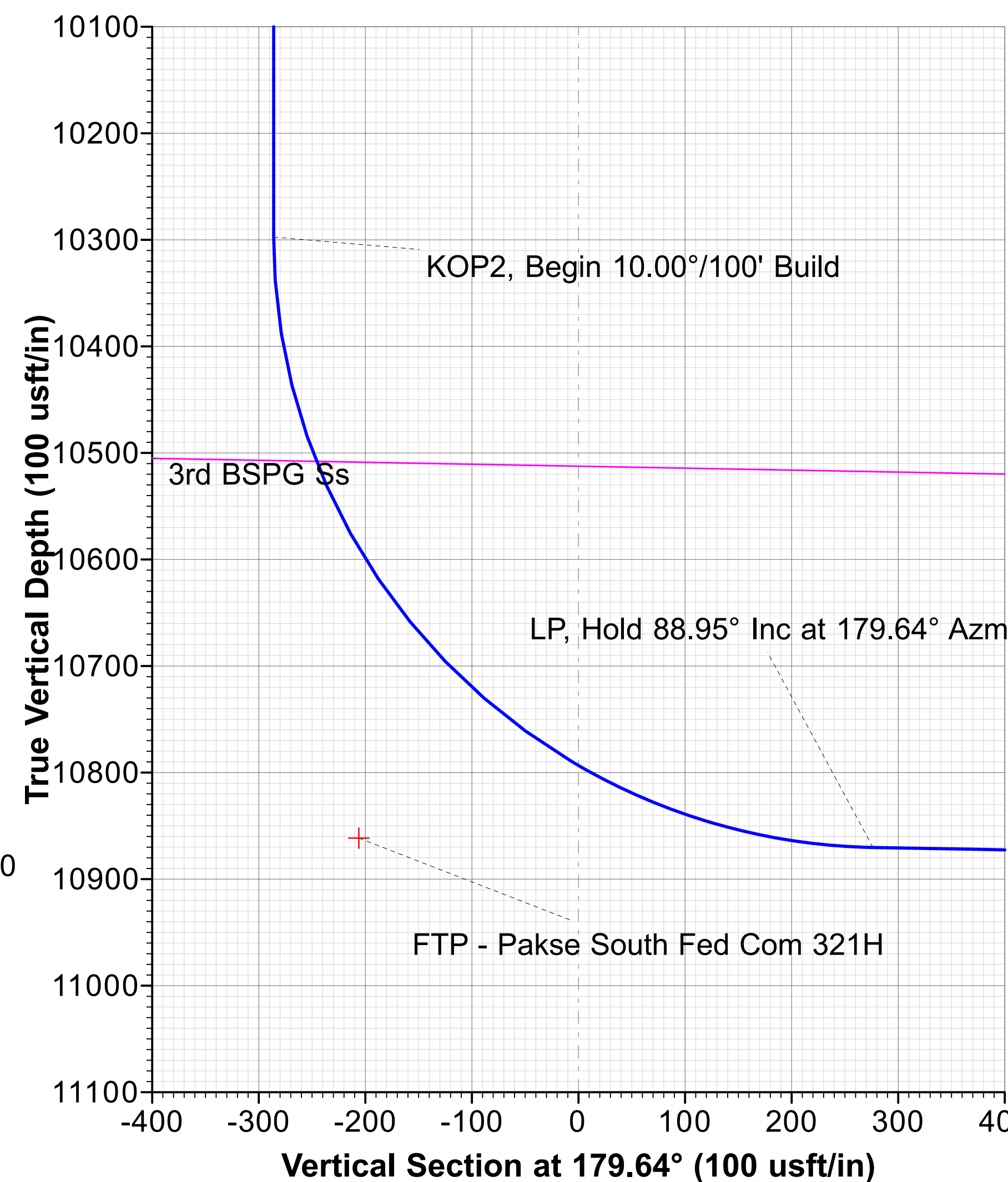
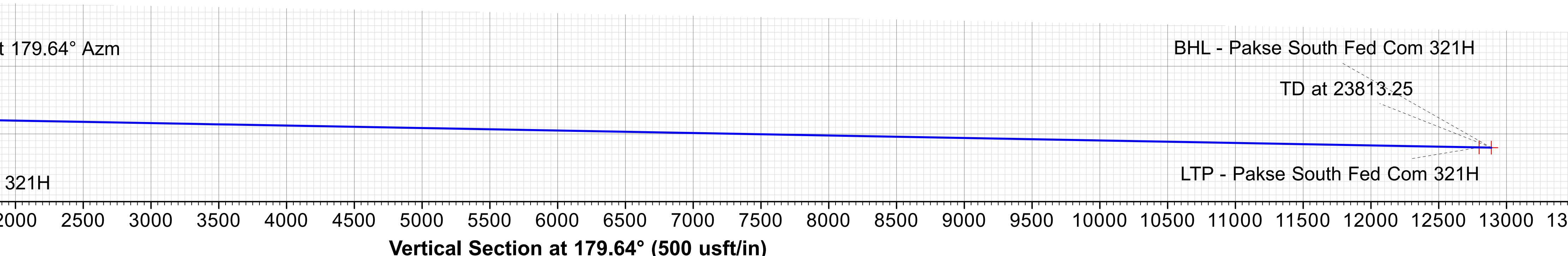
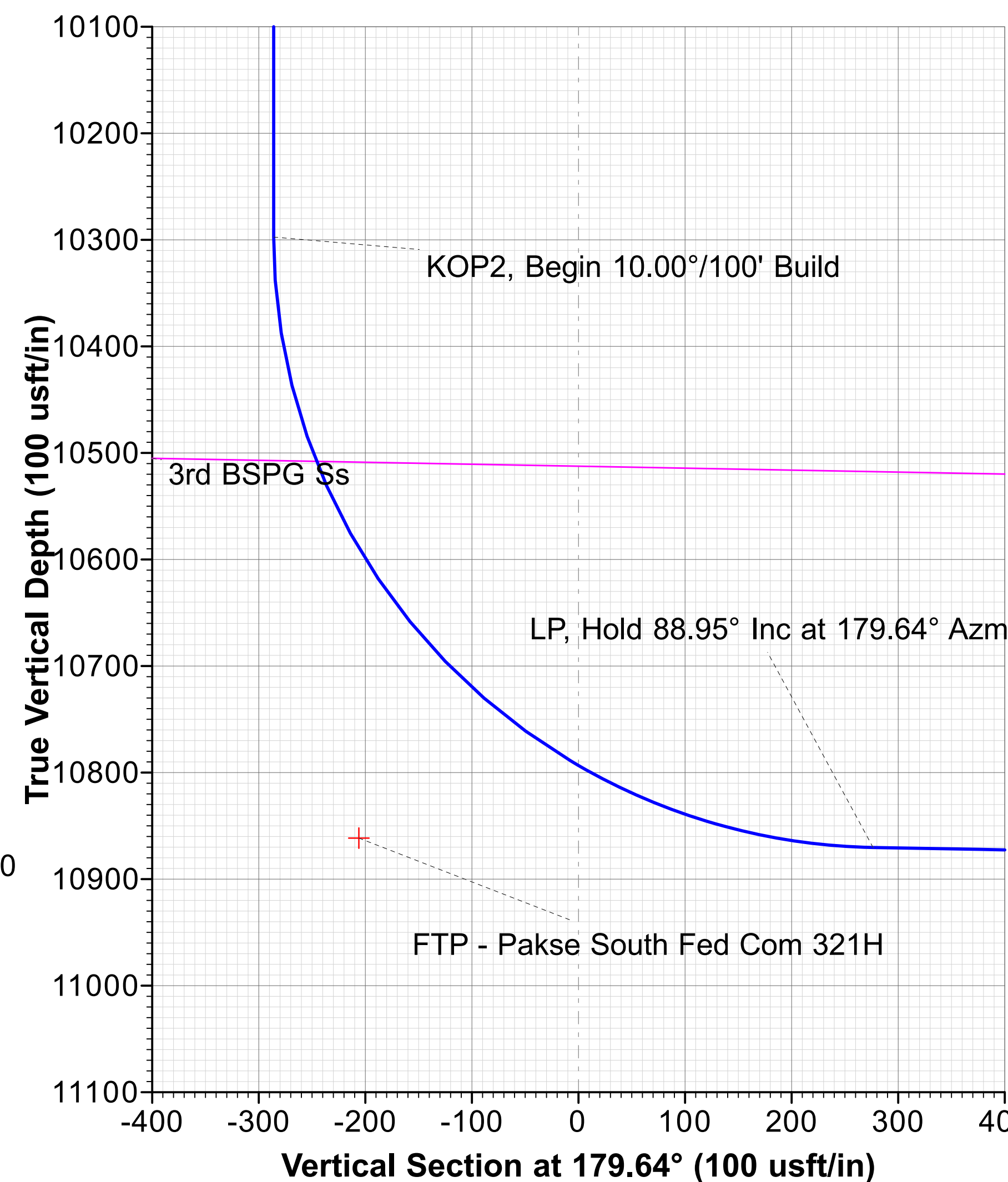
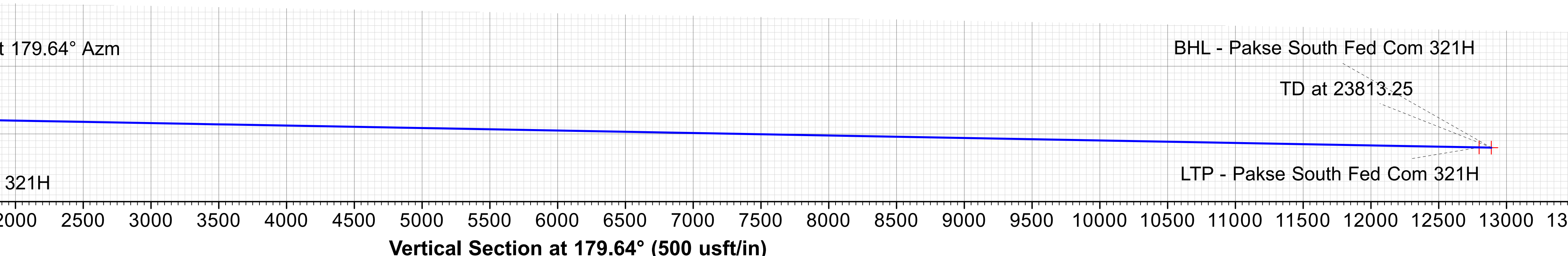
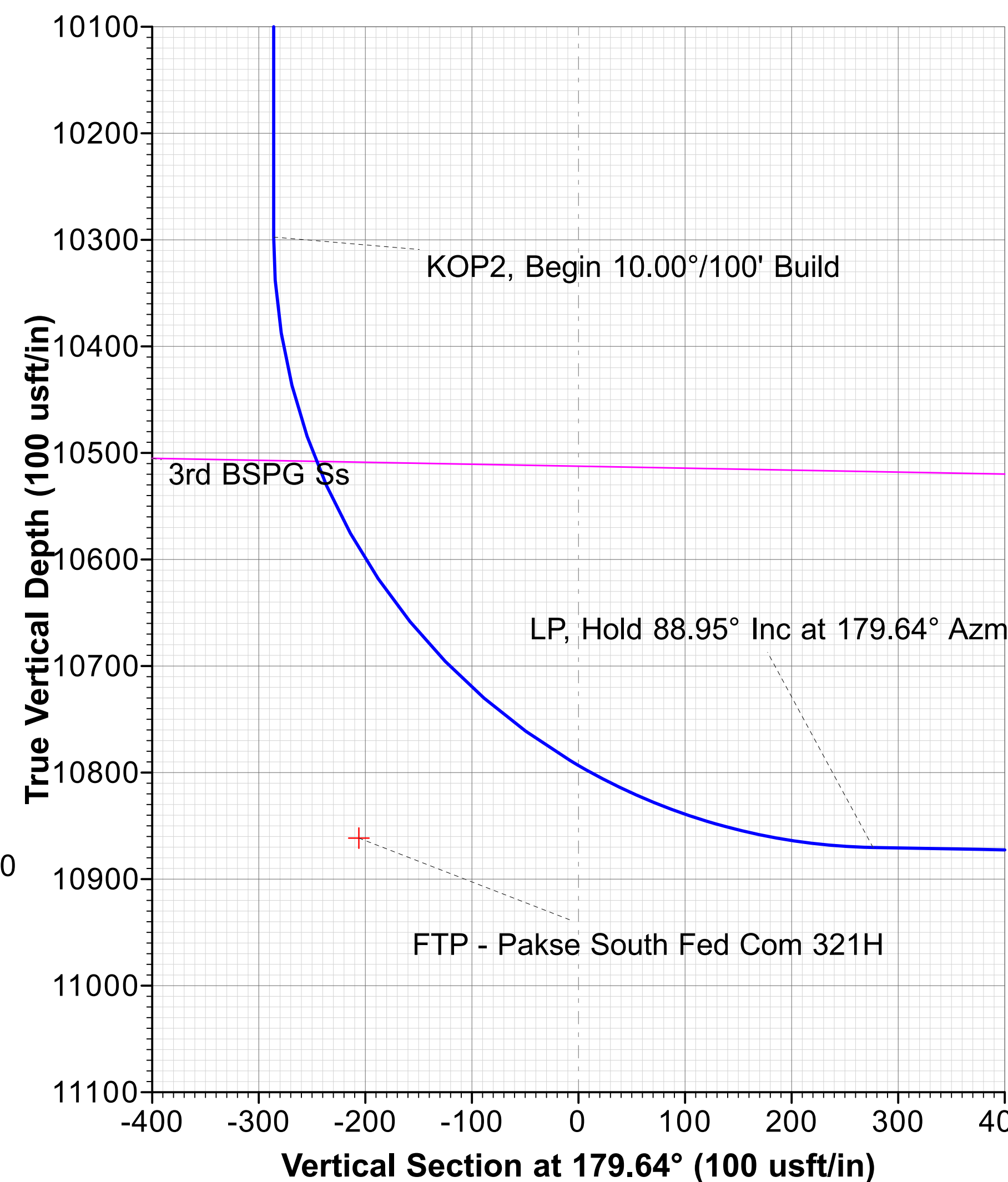
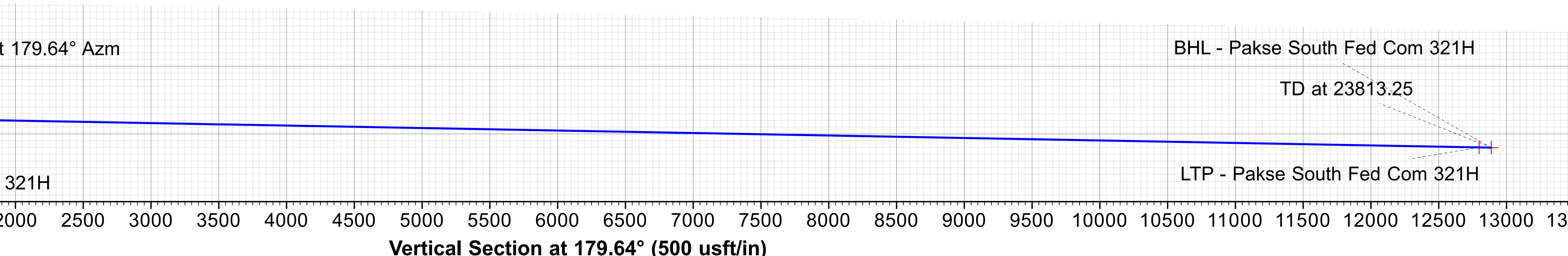
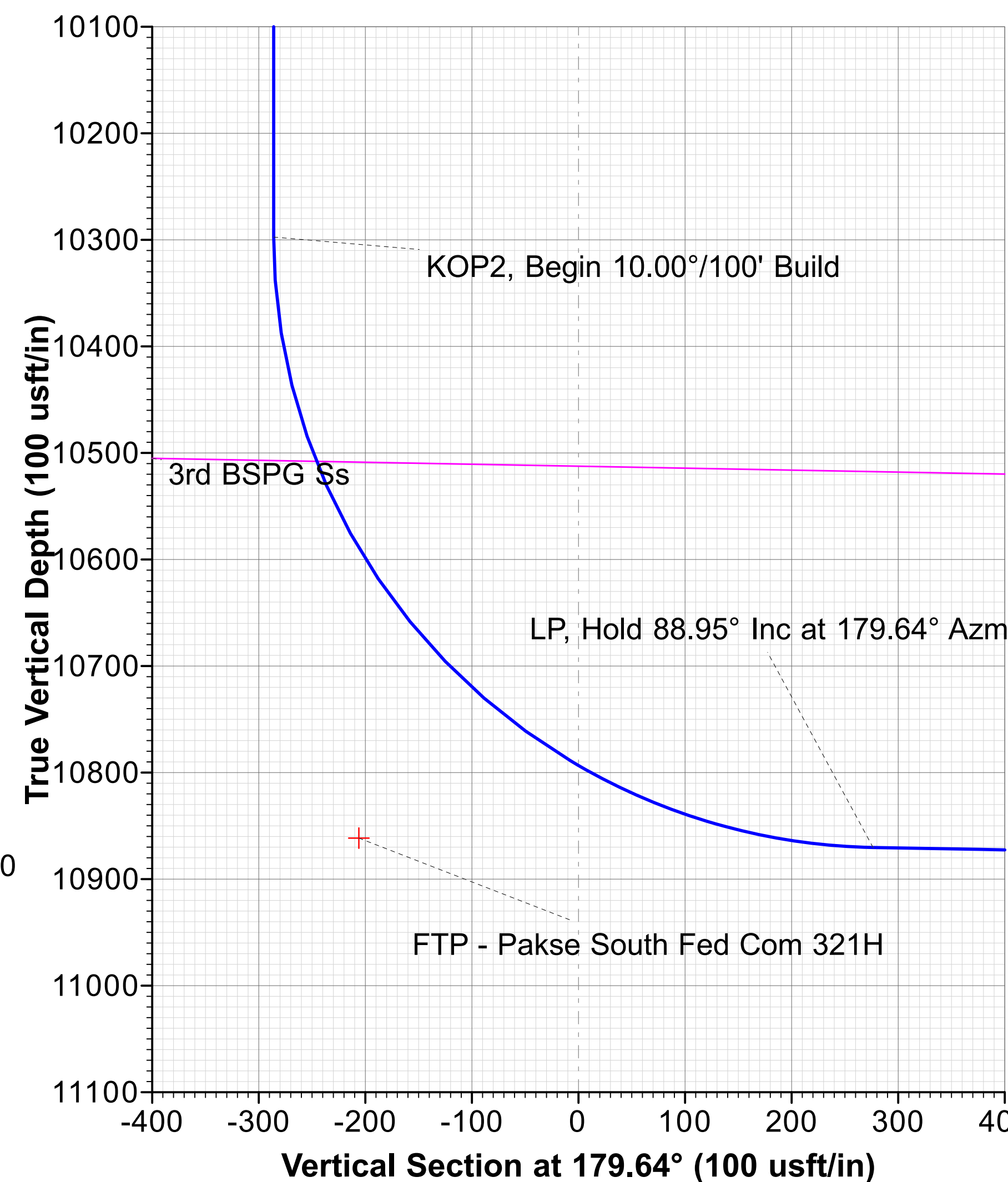
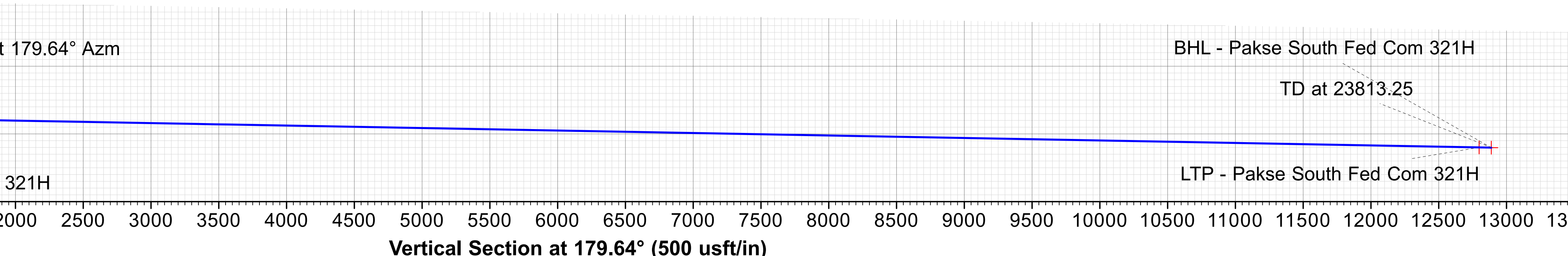
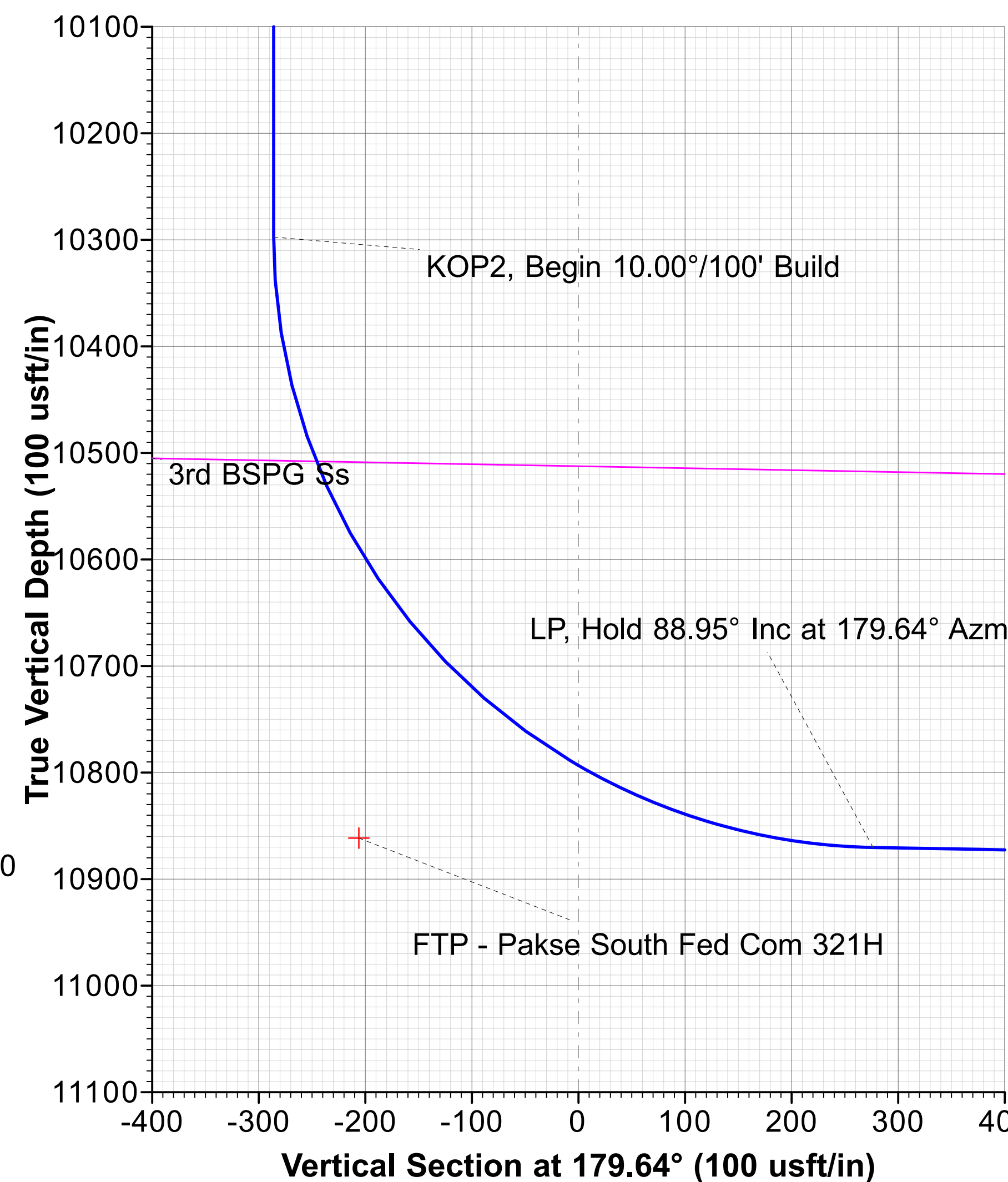
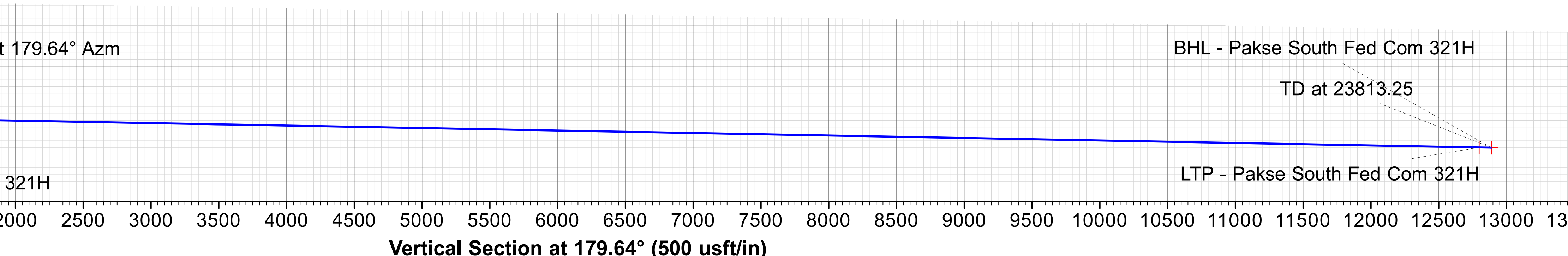
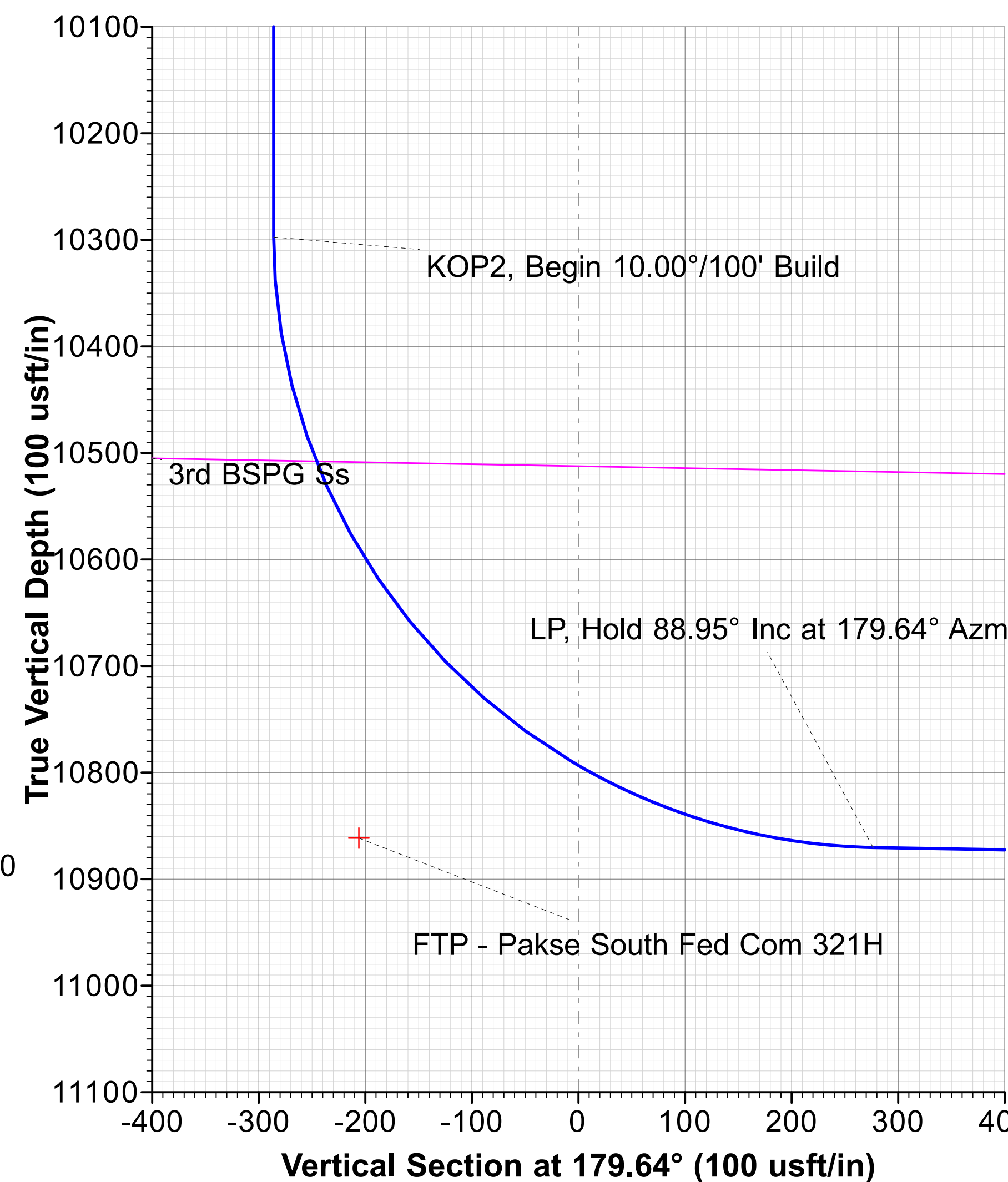
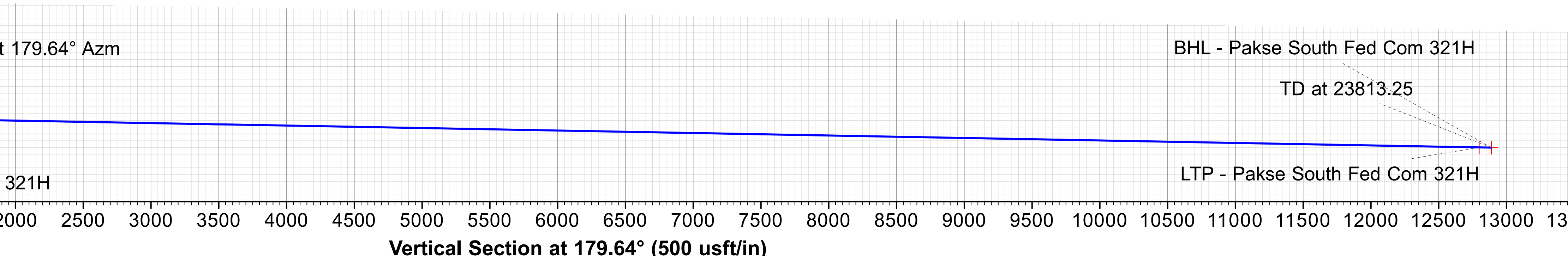
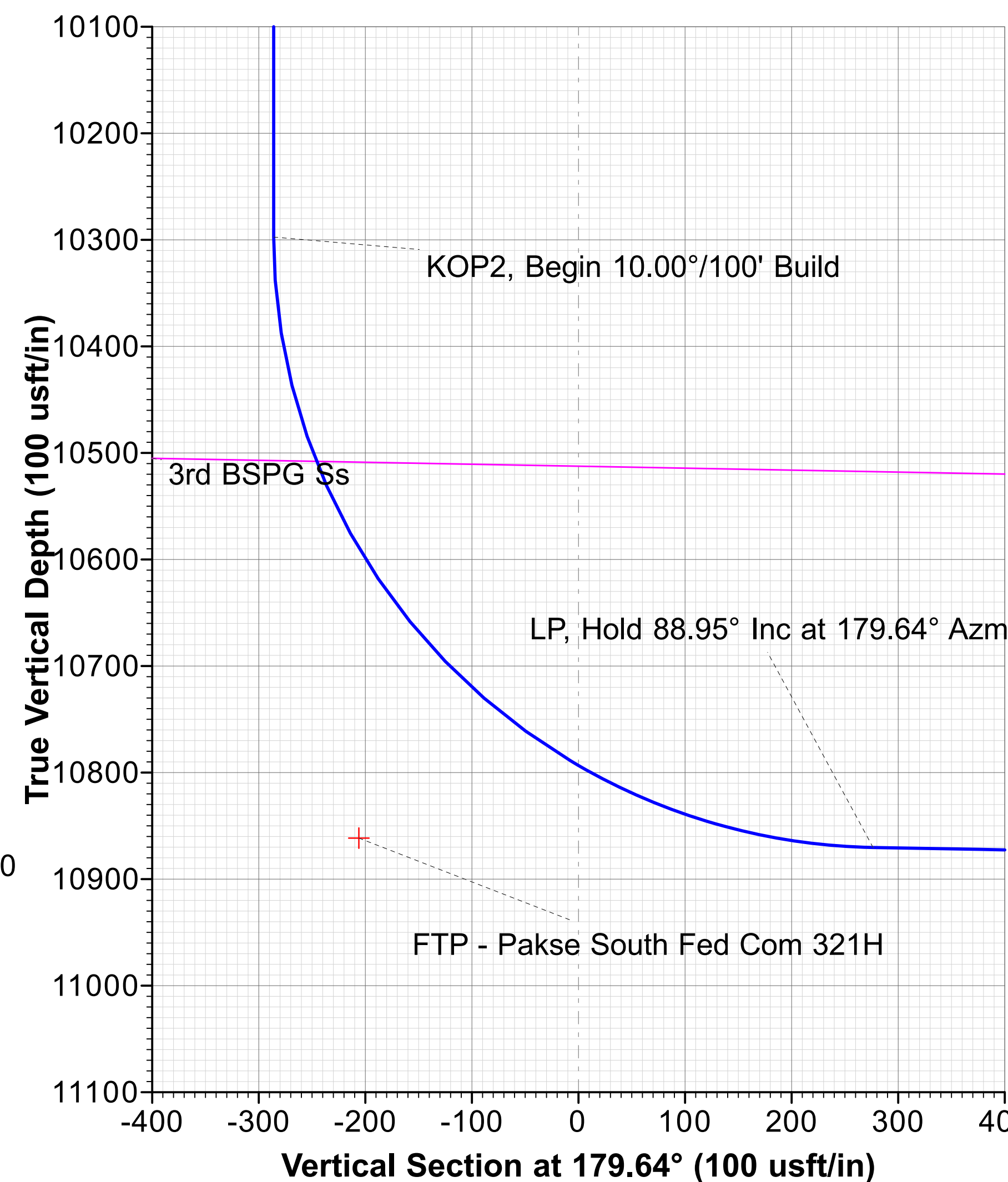
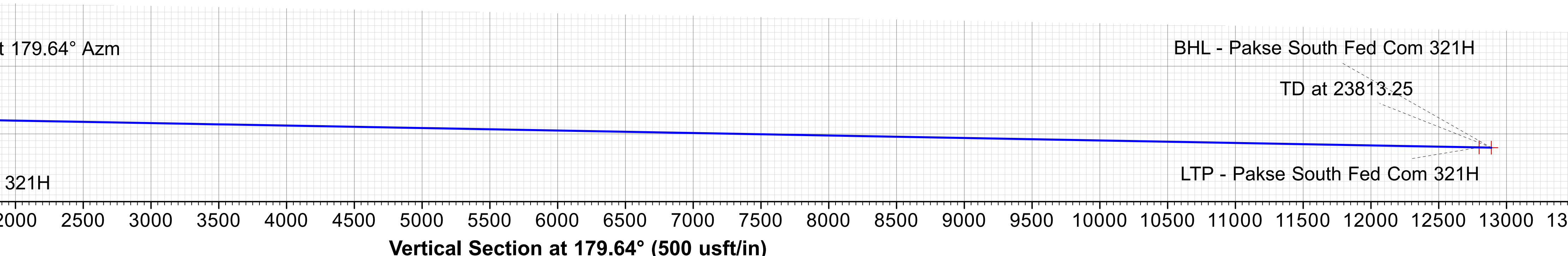
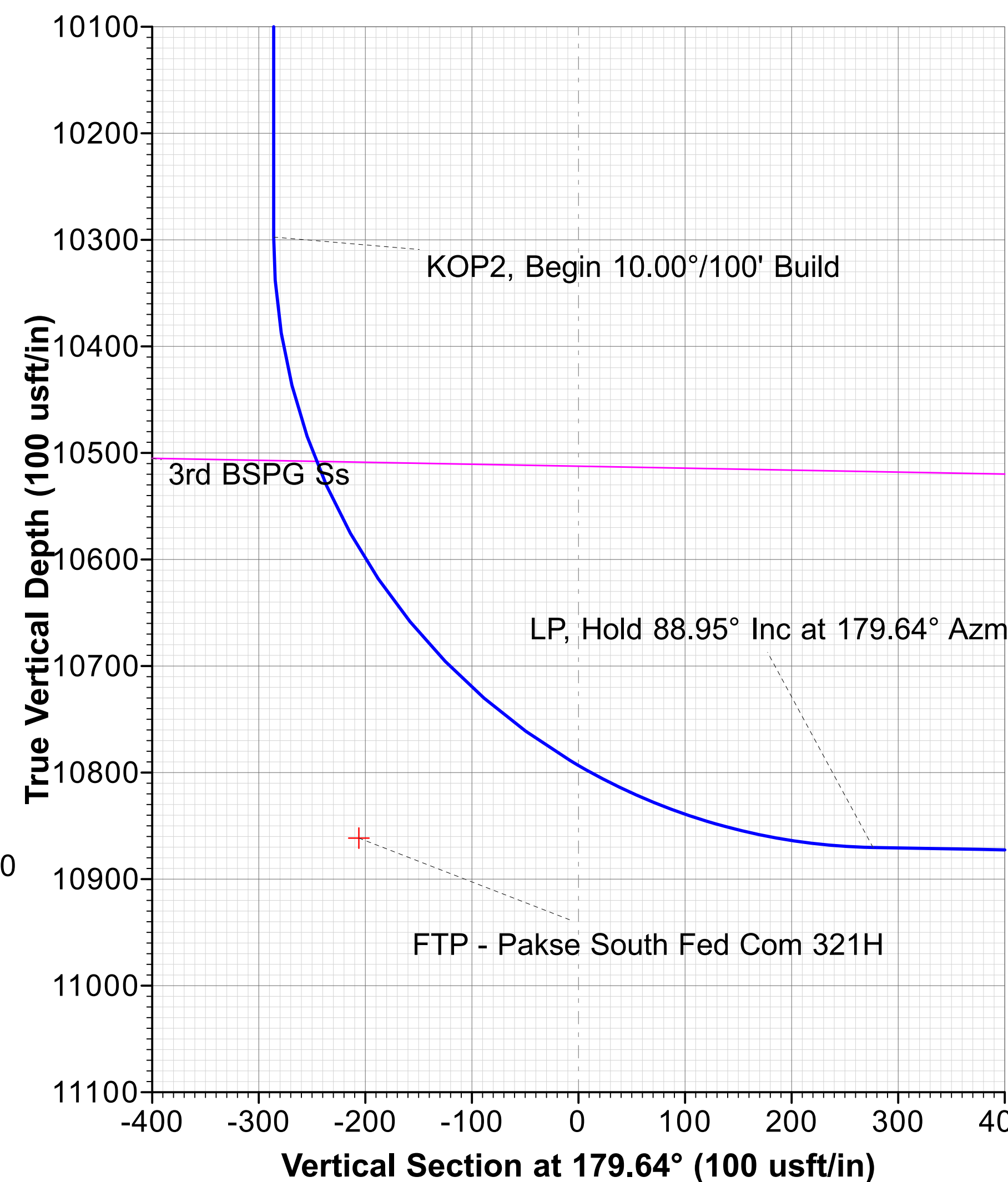
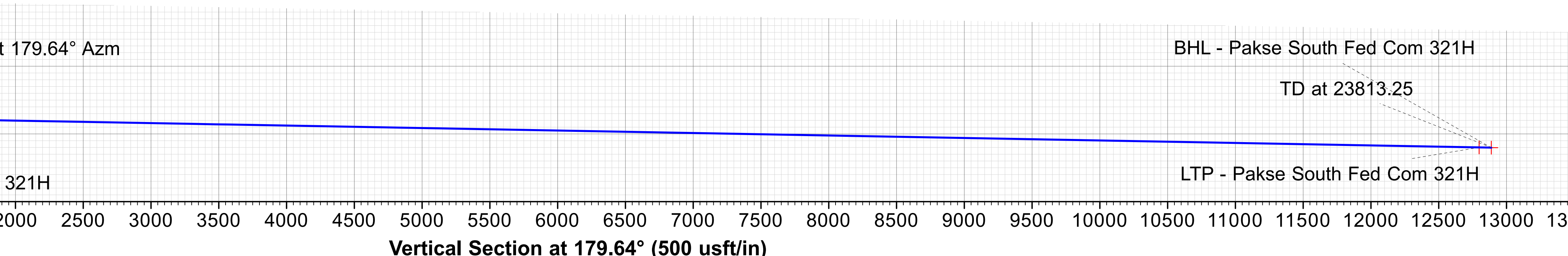
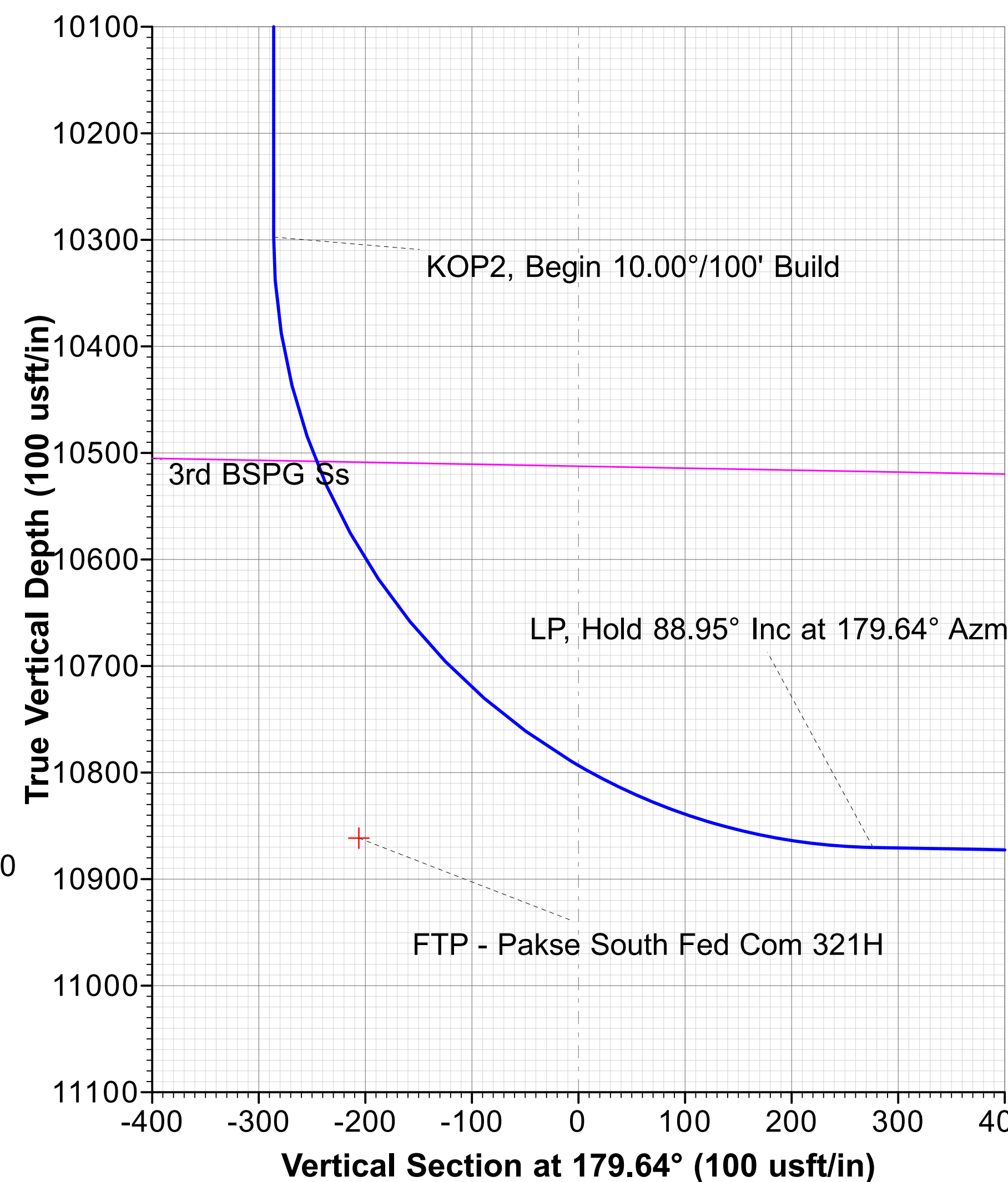
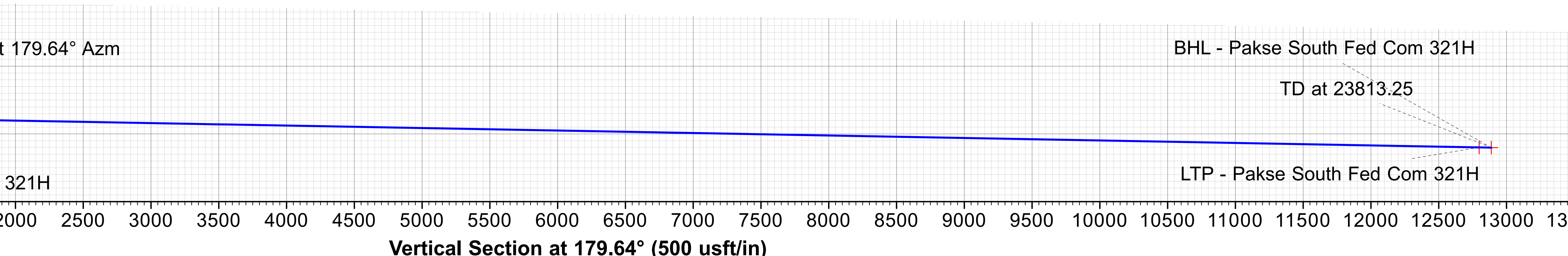
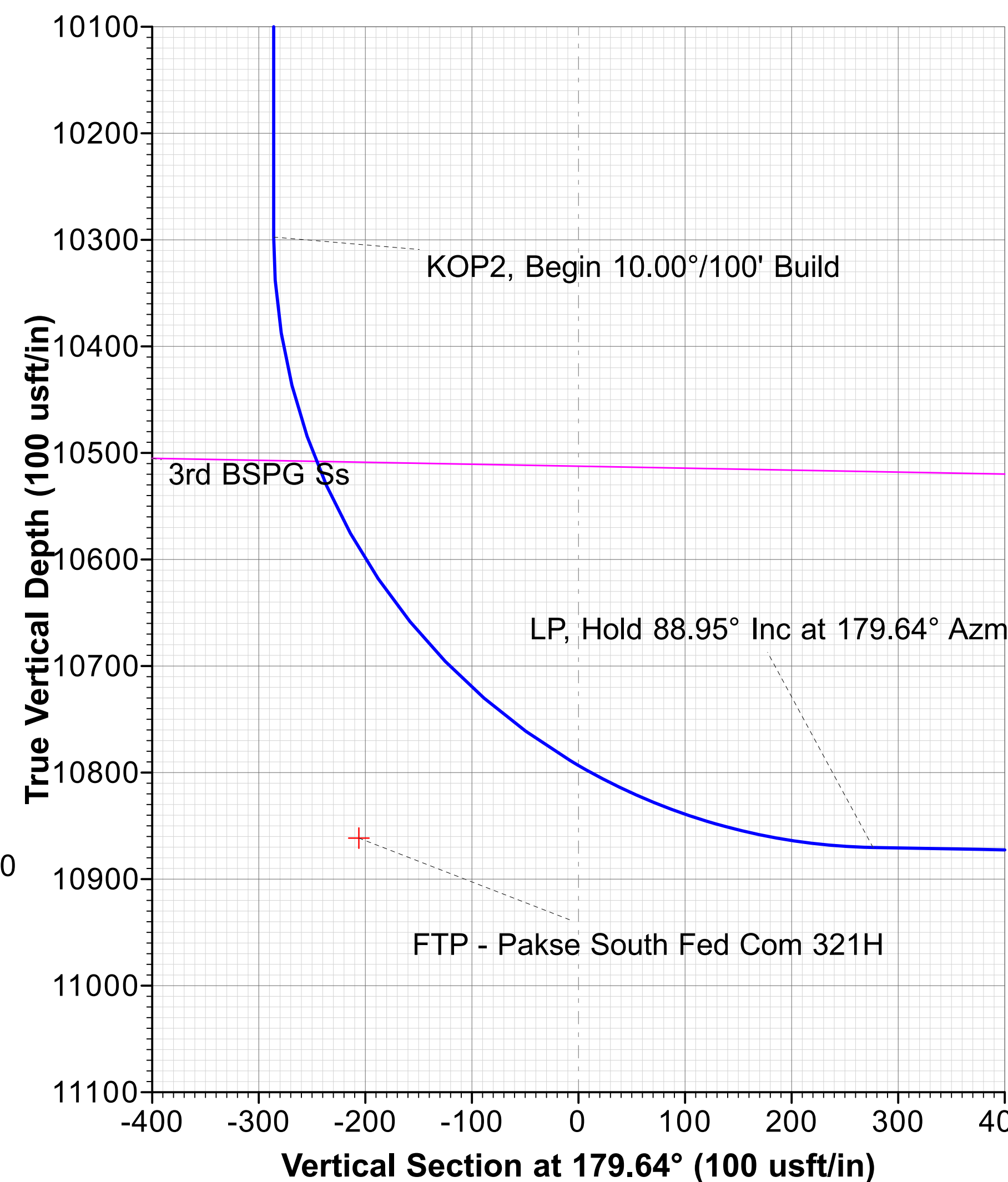
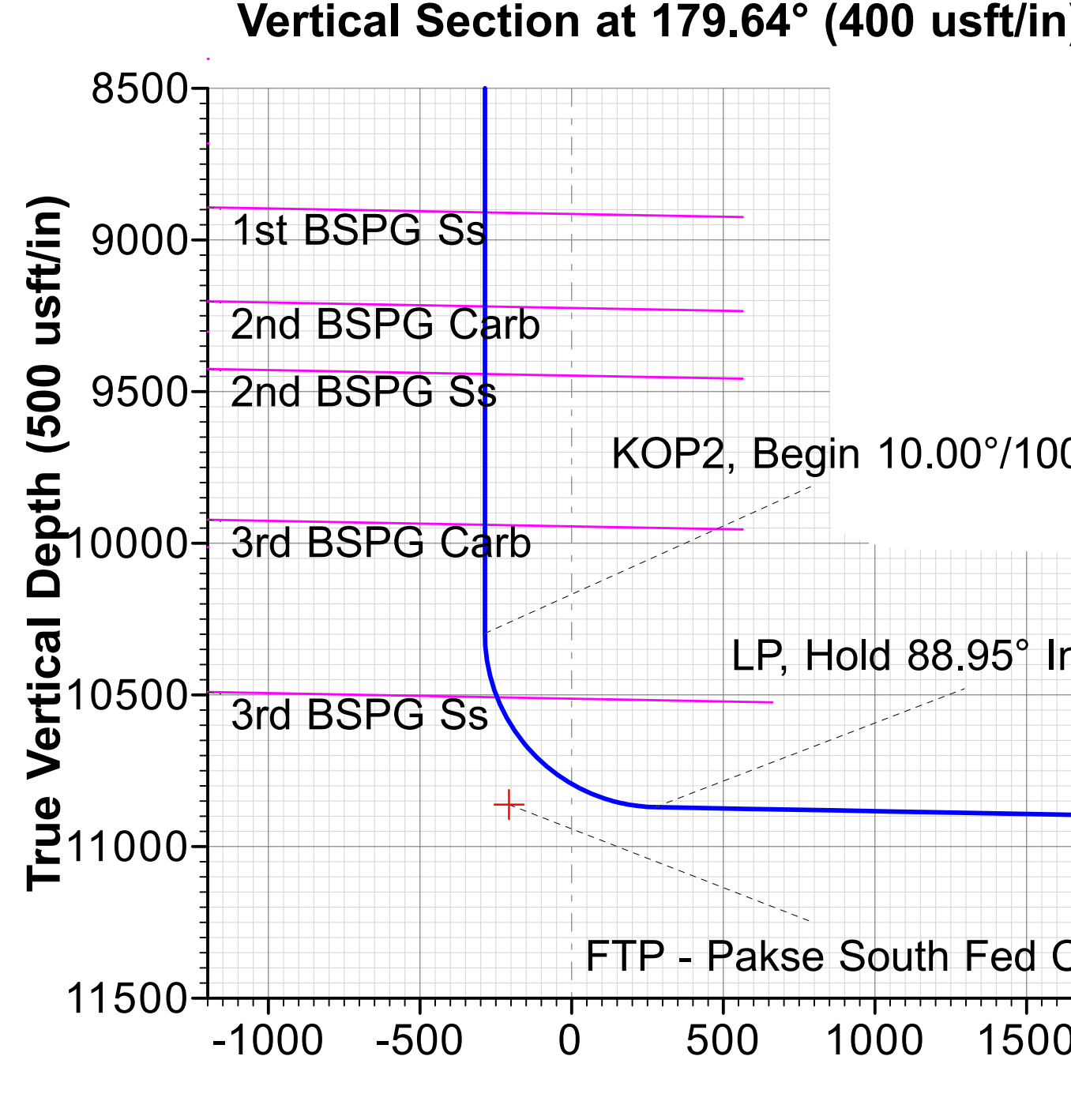
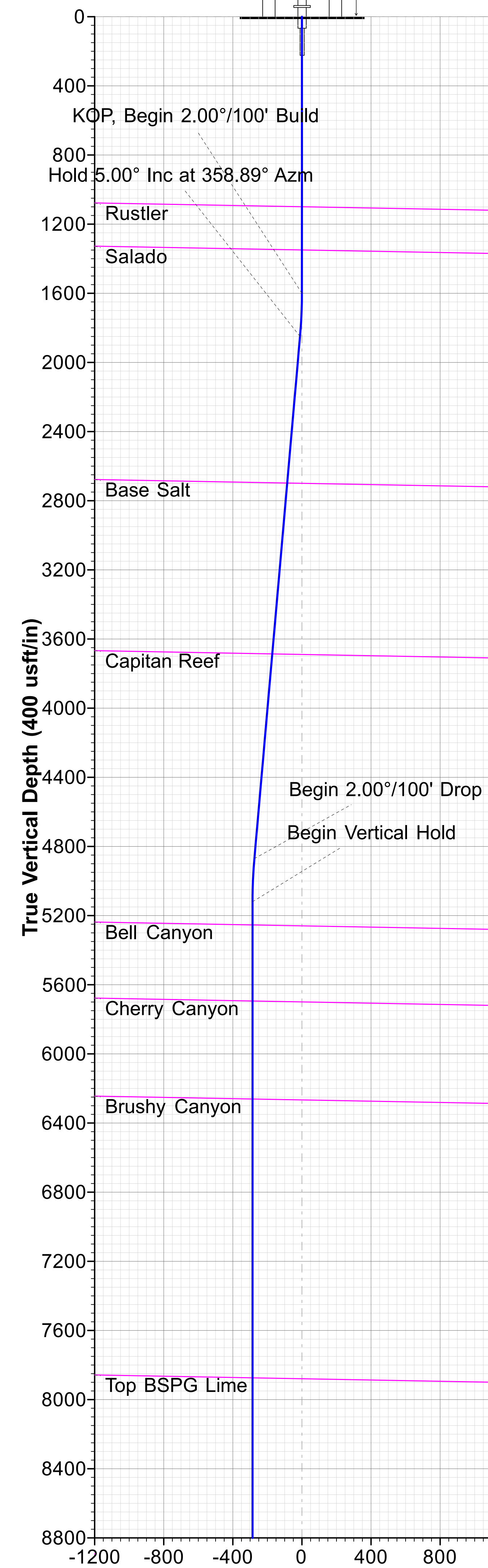
Updated: 11/22/2022

TVD ft-RKB	Geological Tops		Wellbore Sketch		Hole Size	Casing	Drilling Fluids	Cement	OH Evaluation/Logs				
1,000'	1100.5 Rustler				17 -1/2"	Surface 13-3/8" 54.4# J55 BTC	FW Spud Mud 8.5 - 9.2 ppg 38 - 40 Vis 8 - 10 PV 8 - 10 YP	Top of Lead: Surface 12.8 ppg 2.01 cuft/sk 360 sks - 65% XS Top of Tail: 625' 14.8 ppg 1.33 cuft/sk 420 sks - 50% XS	NA				
2,000'					12-1/4"	1st Intermediate 10-3/4" 45.5# HCL-80 BTC *** Special Clearance Coupling ***	Saturated Brine 10.0 - 10.2 ppg 28 - 32 Vis 1 - 3 PV 1 - 3 YP	Top of Lead: Surface 12.8 ppg 2.01 cuft/sk 350 sks - 65% XS Top of Tail: 2,500' 14.8 ppg 1.33 cuft/sk 130 sks - 50% XS	NA				
3,000'	2700.5 Base Salt				9 7/8"	2nd Intermediate 8-5/8" 32# L80 EHC MO-FXL	Fresh Water 8.4 ppg 28 - 32 Vis 1 - 3 PV 1 - 3 YP	1st Stage Top of Lead: 3,591' 10.3 ppg 3.60 cuft/sk 80 sks - 75% XS Top of Tail: 4,786' 14.8 ppg 1.33 cuft/sk 100 sks - 50% XS 2nd Stage Top of Lead: Surface 11.3 ppg 2.43 cuft/sk 180 sks - 65% XS Top of Tail: 3,091' 14.8 ppg 1.33 cuft/sk 80 sks - 50% XS	NA				
4,000'	3691 Capitan Reef				7-7/8"	Production 5-1/2" 20# P110 RY VARN	& Lateral OBM 9.3 - 9.8 ppg 15 - 20 PV 8 - 12 YP	Top of Lead: 3,091' 11.3 ppg 2.62 cuft/sk 610 sks - 10% XS Top of Tail: 9,840' 13.2 ppg 1.82 cuft/sk 1,800 sks - 35% XS	GR from Under Intermediate to TD				
5,000'	5260.5 Bell Canyon												
6,000'	5701 Cherry Canyon												
7,000'	6267.5 Brushy Canyon												
8,000'	7880.5 Top BSPG Lime 8915.5 1st BSPG Ss												
9,000'	9225.5 2nd BSPG Carb 9,449 2nd BSPG Ss												
10,000'	9946 3rd BSPG Carb 10,514 3rd BSPG Ss												
11,000'	10,863 Target LP												
										23,813' MD 11,102' TVD			



RKB @ 3564.50usft (Scandril Star)

Ground Level 3537.00





Earthstone Operating, LLC

Lea County, NM (Nad 83 NME)

Pakse South Fed Com

Pakse South Fed Com 321H

OH

Plan: Plan 1 11-29-22

Standard Planning Report

29 November, 2022





Phoenix Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Pakse South Fed Com 321H
Company:	Earthstone Operating, LLC	TVD Reference:	RKB @ 3564.50usft (Scandrill Star)
Project:	Lea County, NM (Nad 83 NME)	MD Reference:	RKB @ 3564.50usft (Scandrill Star)
Site:	Pakse South Fed Com	North Reference:	Grid
Well:	Pakse South Fed Com 321H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 11-29-22		

Project	Lea County, NM (Nad 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Pakse South Fed Com			
Site Position:		Northing:	569,840.18 usft	Latitude:	32° 33' 54.304145 N
From:	Map	Easting:	728,088.42 usft	Longitude:	103° 43' 37.723168 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.326 °

Well	Pakse South Fed Com 321H					
Well Position	+N/-S	-0.29 usft	Northing:	569,839.89 usft	Latitude:	32° 33' 54.302966 N
	+E/-W	-30.00 usft	Easting:	728,058.42 usft	Longitude:	103° 43' 38.073735 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,537.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	1/29/2023	6.498	60.344	47,819.35920884

Design	Plan 1 11-29-22			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.64

Plan Survey Tool Program	Date	11/29/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	23,813.25	Plan 1 11-29-22 (OH)	MWD+HRGM
				OWSG MWD + HRGM

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,849.92	5.00	358.89	1,849.60	10.89	-0.21	2.00	2.00	0.00	358.891	
4,882.25	5.00	358.89	4,870.40	275.04	-5.33	0.00	0.00	0.00	0.000	
5,132.17	0.00	0.00	5,120.00	285.93	-5.54	2.00	-2.00	0.00	180.000	
10,309.65	0.00	0.00	10,297.49	285.93	-5.54	0.00	0.00	0.00	0.000	
11,199.15	88.95	179.64	10,870.35	-276.52	-2.00	10.00	10.00	0.00	179.640	
23,813.25	88.95	179.64	11,101.50	-12,888.25	77.24	0.00	0.00	0.00	0.000	BHL - Pakse South



Phoenix Planning Report



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Project:	Lea County, NM (Nad 83 NME)	MD Reference:	RKB @ 3564.50usft (Scandrill Star)
Site:	Pakse South Fed Com	North Reference:	Grid
Well:	Pakse South Fed Com 321H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 11-29-22		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,099.50	0.00	0.00	1,099.50	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,349.50	0.00	0.00	1,349.50	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 2.00°/100' Build									
1,700.00	2.00	358.89	1,699.98	1.74	-0.03	-1.75	2.00	2.00	0.00
1,800.00	4.00	358.89	1,799.84	6.98	-0.14	-6.98	2.00	2.00	0.00
1,849.92	5.00	358.89	1,849.60	10.89	-0.21	-10.89	2.00	2.00	0.00
Hold 5.00° Inc at 358.89° Azm									
1,900.00	5.00	358.89	1,899.49	15.25	-0.30	-15.26	0.00	0.00	0.00
2,000.00	5.00	358.89	1,999.11	23.97	-0.46	-23.97	0.00	0.00	0.00
2,100.00	5.00	358.89	2,098.73	32.68	-0.63	-32.68	0.00	0.00	0.00
2,200.00	5.00	358.89	2,198.35	41.39	-0.80	-41.39	0.00	0.00	0.00
2,300.00	5.00	358.89	2,297.97	50.10	-0.97	-50.10	0.00	0.00	0.00
2,400.00	5.00	358.89	2,397.59	58.81	-1.14	-58.82	0.00	0.00	0.00
2,500.00	5.00	358.89	2,497.21	67.52	-1.31	-67.53	0.00	0.00	0.00
2,600.00	5.00	358.89	2,596.83	76.23	-1.48	-76.24	0.00	0.00	0.00
2,700.00	5.00	358.89	2,696.45	84.94	-1.64	-84.95	0.00	0.00	0.00
2,701.50	5.00	358.89	2,697.94	85.07	-1.65	-85.08	0.00	0.00	0.00
Base Salt									
2,800.00	5.00	358.89	2,796.07	93.65	-1.81	-93.66	0.00	0.00	0.00
2,900.00	5.00	358.89	2,895.69	102.36	-1.98	-102.38	0.00	0.00	0.00
3,000.00	5.00	358.89	2,995.31	111.08	-2.15	-111.09	0.00	0.00	0.00
3,100.00	5.00	358.89	3,094.93	119.79	-2.32	-119.80	0.00	0.00	0.00
3,200.00	5.00	358.89	3,194.55	128.50	-2.49	-128.51	0.00	0.00	0.00
3,300.00	5.00	358.89	3,294.17	137.21	-2.66	-137.22	0.00	0.00	0.00
3,400.00	5.00	358.89	3,393.79	145.92	-2.83	-145.93	0.00	0.00	0.00
3,500.00	5.00	358.89	3,493.41	154.63	-2.99	-154.65	0.00	0.00	0.00
3,600.00	5.00	358.89	3,593.03	163.34	-3.16	-163.36	0.00	0.00	0.00
3,693.68	5.00	358.89	3,686.36	171.50	-3.32	-171.52	0.00	0.00	0.00
Capitan Reef									
3,700.00	5.00	358.89	3,692.65	172.05	-3.33	-172.07	0.00	0.00	0.00
3,800.00	5.00	358.89	3,792.27	180.76	-3.50	-180.78	0.00	0.00	0.00
3,900.00	5.00	358.89	3,891.89	189.47	-3.67	-189.49	0.00	0.00	0.00
4,000.00	5.00	358.89	3,991.51	198.19	-3.84	-198.21	0.00	0.00	0.00
4,100.00	5.00	358.89	4,091.13	206.90	-4.01	-206.92	0.00	0.00	0.00
4,200.00	5.00	358.89	4,190.75	215.61	-4.18	-215.63	0.00	0.00	0.00
4,300.00	5.00	358.89	4,290.37	224.32	-4.34	-224.34	0.00	0.00	0.00
4,400.00	5.00	358.89	4,389.99	233.03	-4.51	-233.05	0.00	0.00	0.00
4,500.00	5.00	358.89	4,489.61	241.74	-4.68	-241.77	0.00	0.00	0.00
4,600.00	5.00	358.89	4,589.23	250.45	-4.85	-250.48	0.00	0.00	0.00
4,700.00	5.00	358.89	4,688.85	259.16	-5.02	-259.19	0.00	0.00	0.00
4,800.00	5.00	358.89	4,788.46	267.87	-5.19	-267.90	0.00	0.00	0.00
4,882.25	5.00	358.89	4,870.40	275.04	-5.33	-275.07	0.00	0.00	0.00
Begin 2.00°/100' Drop									
4,900.00	4.64	358.89	4,888.09	276.53	-5.35	-276.56	2.00	-2.00	0.00
5,000.00	2.64	358.89	4,987.88	282.88	-5.48	-282.91	2.00	-2.00	0.00
5,100.00	0.64	358.89	5,087.84	285.75	-5.53	-285.78	2.00	-2.00	0.00
5,132.17	0.00	0.00	5,120.00	285.93	-5.54	-285.96	2.00	-2.00	0.00
Begin Vertical Hold									
5,266.42	0.00	0.00	5,254.26	285.93	-5.54	-285.96	0.00	0.00	0.00



Phoenix Planning Report



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Project:	Lea County, NM (Nad 83 NME)	MD Reference:	RKB @ 3564.50usft (Scandril Star)
Site:	Pakse South Fed Com	North Reference:	Grid
Well:	Pakse South Fed Com 321H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 11-29-22		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
Bell Canyon										
5,706.42	0.00	0.00	5,694.26	285.93	-5.54	-285.96	0.00	0.00	0.00	
Cherry Canyon										
6,273.42	0.00	0.00	6,261.26	285.93	-5.54	-285.96	0.00	0.00	0.00	
Brushy Canyon										
7,886.42	0.00	0.00	7,874.26	285.93	-5.54	-285.96	0.00	0.00	0.00	
Top BSPG Lime										
8,921.42	0.00	0.00	8,909.26	285.93	-5.54	-285.96	0.00	0.00	0.00	
1st BSPG Ss										
9,231.42	0.00	0.00	9,219.26	285.93	-5.54	-285.96	0.00	0.00	0.00	
2nd BSPG Carb										
9,454.42	0.00	0.00	9,442.26	285.93	-5.54	-285.96	0.00	0.00	0.00	
2nd BSPG Ss										
9,951.42	0.00	0.00	9,939.26	285.93	-5.54	-285.96	0.00	0.00	0.00	
3rd BSPG Carb										
10,309.65	0.00	0.00	10,297.49	285.93	-5.54	-285.96	0.00	0.00	0.00	
KOP2, Begin 10.00°/100' Build										
10,400.00	9.03	179.64	10,387.46	278.82	-5.49	-278.85	10.00	10.00	0.00	
10,500.00	19.03	179.64	10,484.35	254.60	-5.34	-254.63	10.00	10.00	0.00	
10,525.21	21.56	179.64	10,507.99	245.86	-5.29	-245.89	10.00	10.00	0.00	
3rd BSPG Ss										
10,600.00	29.03	179.64	10,575.57	213.92	-5.08	-213.95	10.00	10.00	0.00	
10,700.00	39.03	179.64	10,658.33	158.03	-4.73	-158.05	10.00	10.00	0.00	
10,800.00	49.03	179.64	10,730.13	88.61	-4.30	-88.63	10.00	10.00	0.00	
10,900.00	59.03	179.64	10,788.79	7.77	-3.79	-7.80	10.00	10.00	0.00	
11,000.00	69.03	179.64	10,832.51	-82.02	-3.22	81.99	10.00	10.00	0.00	
11,100.00	79.03	179.64	10,859.98	-178.04	-2.62	178.02	10.00	10.00	0.00	
11,199.15	88.95	179.64	10,870.35	-276.52	-2.00	276.50	10.00	10.00	0.00	
LP, Hold 88.95° Inc at 179.64° Azm										
11,200.00	88.95	179.64	10,870.36	-277.37	-2.00	277.35	0.00	0.00	0.00	
11,300.00	88.95	179.64	10,872.20	-377.35	-1.37	377.33	0.00	0.00	0.00	
11,400.00	88.95	179.64	10,874.03	-477.33	-0.74	477.31	0.00	0.00	0.00	
11,500.00	88.95	179.64	10,875.86	-577.31	-0.11	577.30	0.00	0.00	0.00	
11,600.00	88.95	179.64	10,877.69	-677.29	0.52	677.28	0.00	0.00	0.00	
11,700.00	88.95	179.64	10,879.53	-777.27	1.14	777.26	0.00	0.00	0.00	
11,800.00	88.95	179.64	10,881.36	-877.25	1.77	877.25	0.00	0.00	0.00	
11,900.00	88.95	179.64	10,883.19	-977.23	2.40	977.23	0.00	0.00	0.00	
12,000.00	88.95	179.64	10,885.02	-1,077.22	3.03	1,077.21	0.00	0.00	0.00	
12,100.00	88.95	179.64	10,886.86	-1,177.20	3.66	1,177.20	0.00	0.00	0.00	
12,200.00	88.95	179.64	10,888.69	-1,277.18	4.28	1,277.18	0.00	0.00	0.00	
12,300.00	88.95	179.64	10,890.52	-1,377.16	4.91	1,377.16	0.00	0.00	0.00	
12,400.00	88.95	179.64	10,892.35	-1,477.14	5.54	1,477.15	0.00	0.00	0.00	
12,500.00	88.95	179.64	10,894.19	-1,577.12	6.17	1,577.13	0.00	0.00	0.00	
12,600.00	88.95	179.64	10,896.02	-1,677.10	6.80	1,677.11	0.00	0.00	0.00	
12,700.00	88.95	179.64	10,897.85	-1,777.08	7.43	1,777.10	0.00	0.00	0.00	
12,800.00	88.95	179.64	10,899.68	-1,877.07	8.05	1,877.08	0.00	0.00	0.00	
12,900.00	88.95	179.64	10,901.52	-1,977.05	8.68	1,977.06	0.00	0.00	0.00	
13,000.00	88.95	179.64	10,903.35	-2,077.03	9.31	2,077.05	0.00	0.00	0.00	
13,100.00	88.95	179.64	10,905.18	-2,177.01	9.94	2,177.03	0.00	0.00	0.00	
13,200.00	88.95	179.64	10,907.01	-2,276.99	10.57	2,277.01	0.00	0.00	0.00	
13,300.00	88.95	179.64	10,908.85	-2,376.97	11.19	2,377.00	0.00	0.00	0.00	
13,400.00	88.95	179.64	10,910.68	-2,476.95	11.82	2,476.98	0.00	0.00	0.00	



Phoenix Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Pakse South Fed Com 321H
Company:	Earthstone Operating, LLC	TVD Reference:	RKB @ 3564.50usft (Scandril Star)
Project:	Lea County, NM (Nad 83 NME)	MD Reference:	RKB @ 3564.50usft (Scandril Star)
Site:	Pakse South Fed Com	North Reference:	Grid
Well:	Pakse South Fed Com 321H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 11-29-22		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,500.00	88.95	179.64	10,912.51	-2,576.93	12.45	2,576.96	0.00	0.00	0.00	
13,600.00	88.95	179.64	10,914.34	-2,676.92	13.08	2,676.95	0.00	0.00	0.00	
13,700.00	88.95	179.64	10,916.18	-2,776.90	13.71	2,776.93	0.00	0.00	0.00	
13,800.00	88.95	179.64	10,918.01	-2,876.88	14.34	2,876.91	0.00	0.00	0.00	
13,900.00	88.95	179.64	10,919.84	-2,976.86	14.96	2,976.89	0.00	0.00	0.00	
14,000.00	88.95	179.64	10,921.67	-3,076.84	15.59	3,076.88	0.00	0.00	0.00	
14,100.00	88.95	179.64	10,923.51	-3,176.82	16.22	3,176.86	0.00	0.00	0.00	
14,200.00	88.95	179.64	10,925.34	-3,276.80	16.85	3,276.84	0.00	0.00	0.00	
14,300.00	88.95	179.64	10,927.17	-3,376.78	17.48	3,376.83	0.00	0.00	0.00	
14,400.00	88.95	179.64	10,929.00	-3,476.77	18.11	3,476.81	0.00	0.00	0.00	
14,500.00	88.95	179.64	10,930.84	-3,576.75	18.73	3,576.79	0.00	0.00	0.00	
14,600.00	88.95	179.64	10,932.67	-3,676.73	19.36	3,676.78	0.00	0.00	0.00	
14,700.00	88.95	179.64	10,934.50	-3,776.71	19.99	3,776.76	0.00	0.00	0.00	
14,800.00	88.95	179.64	10,936.33	-3,876.69	20.62	3,876.74	0.00	0.00	0.00	
14,900.00	88.95	179.64	10,938.17	-3,976.67	21.25	3,976.73	0.00	0.00	0.00	
15,000.00	88.95	179.64	10,940.00	-4,076.65	21.87	4,076.71	0.00	0.00	0.00	
15,100.00	88.95	179.64	10,941.83	-4,176.63	22.50	4,176.69	0.00	0.00	0.00	
15,200.00	88.95	179.64	10,943.66	-4,276.62	23.13	4,276.68	0.00	0.00	0.00	
15,300.00	88.95	179.64	10,945.50	-4,376.60	23.76	4,376.66	0.00	0.00	0.00	
15,400.00	88.95	179.64	10,947.33	-4,476.58	24.39	4,476.64	0.00	0.00	0.00	
15,500.00	88.95	179.64	10,949.16	-4,576.56	25.02	4,576.63	0.00	0.00	0.00	
15,600.00	88.95	179.64	10,950.99	-4,676.54	25.64	4,676.61	0.00	0.00	0.00	
15,700.00	88.95	179.64	10,952.83	-4,776.52	26.27	4,776.59	0.00	0.00	0.00	
15,800.00	88.95	179.64	10,954.66	-4,876.50	26.90	4,876.58	0.00	0.00	0.00	
15,900.00	88.95	179.64	10,956.49	-4,976.48	27.53	4,976.56	0.00	0.00	0.00	
16,000.00	88.95	179.64	10,958.32	-5,076.47	28.16	5,076.54	0.00	0.00	0.00	
16,100.00	88.95	179.64	10,960.16	-5,176.45	28.78	5,176.53	0.00	0.00	0.00	
16,200.00	88.95	179.64	10,961.99	-5,276.43	29.41	5,276.51	0.00	0.00	0.00	
16,300.00	88.95	179.64	10,963.82	-5,376.41	30.04	5,376.49	0.00	0.00	0.00	
16,400.00	88.95	179.64	10,965.65	-5,476.39	30.67	5,476.48	0.00	0.00	0.00	
16,500.00	88.95	179.64	10,967.49	-5,576.37	31.30	5,576.46	0.00	0.00	0.00	
16,600.00	88.95	179.64	10,969.32	-5,676.35	31.93	5,676.44	0.00	0.00	0.00	
16,700.00	88.95	179.64	10,971.15	-5,776.33	32.55	5,776.42	0.00	0.00	0.00	
16,800.00	88.95	179.64	10,972.98	-5,876.32	33.18	5,876.41	0.00	0.00	0.00	
16,900.00	88.95	179.64	10,974.82	-5,976.30	33.81	5,976.39	0.00	0.00	0.00	
17,000.00	88.95	179.64	10,976.65	-6,076.28	34.44	6,076.37	0.00	0.00	0.00	
17,100.00	88.95	179.64	10,978.48	-6,176.26	35.07	6,176.36	0.00	0.00	0.00	
17,200.00	88.95	179.64	10,980.31	-6,276.24	35.69	6,276.34	0.00	0.00	0.00	
17,300.00	88.95	179.64	10,982.15	-6,376.22	36.32	6,376.32	0.00	0.00	0.00	
17,400.00	88.95	179.64	10,983.98	-6,476.20	36.95	6,476.31	0.00	0.00	0.00	
17,500.00	88.95	179.64	10,985.81	-6,576.18	37.58	6,576.29	0.00	0.00	0.00	
17,600.00	88.95	179.64	10,987.64	-6,676.17	38.21	6,676.27	0.00	0.00	0.00	
17,700.00	88.95	179.64	10,989.48	-6,776.15	38.84	6,776.26	0.00	0.00	0.00	
17,800.00	88.95	179.64	10,991.31	-6,876.13	39.46	6,876.24	0.00	0.00	0.00	
17,900.00	88.95	179.64	10,993.14	-6,976.11	40.09	6,976.22	0.00	0.00	0.00	
18,000.00	88.95	179.64	10,994.97	-7,076.09	40.72	7,076.21	0.00	0.00	0.00	
18,100.00	88.95	179.64	10,996.81	-7,176.07	41.35	7,176.19	0.00	0.00	0.00	
18,200.00	88.95	179.64	10,998.64	-7,276.05	41.98	7,276.17	0.00	0.00	0.00	
18,300.00	88.95	179.64	11,000.47	-7,376.03	42.61	7,376.16	0.00	0.00	0.00	
18,400.00	88.95	179.64	11,002.30	-7,476.02	43.23	7,476.14	0.00	0.00	0.00	
18,500.00	88.95	179.64	11,004.14	-7,576.00	43.86	7,576.12	0.00	0.00	0.00	
18,600.00	88.95	179.64	11,005.97	-7,675.98	44.49	7,676.11	0.00	0.00	0.00	
18,700.00	88.95	179.64	11,007.80	-7,775.96	45.12	7,776.09	0.00	0.00	0.00	
18,800.00	88.95	179.64	11,009.63	-7,875.94	45.75	7,876.07	0.00	0.00	0.00	



Phoenix Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Pakse South Fed Com 321H
Company:	Earthstone Operating, LLC	TVD Reference:	RKB @ 3564.50usft (Scandril Star)
Project:	Lea County, NM (Nad 83 NME)	MD Reference:	RKB @ 3564.50usft (Scandril Star)
Site:	Pakse South Fed Com	North Reference:	Grid
Well:	Pakse South Fed Com 321H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 11-29-22		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,900.00	88.95	179.64	11,011.47	-7,975.92	46.37	7,976.06	0.00	0.00	0.00
19,000.00	88.95	179.64	11,013.30	-8,075.90	47.00	8,076.04	0.00	0.00	0.00
19,100.00	88.95	179.64	11,015.13	-8,175.88	47.63	8,176.02	0.00	0.00	0.00
19,200.00	88.95	179.64	11,016.96	-8,275.87	48.26	8,276.00	0.00	0.00	0.00
19,300.00	88.95	179.64	11,018.80	-8,375.85	48.89	8,375.99	0.00	0.00	0.00
19,400.00	88.95	179.64	11,020.63	-8,475.83	49.52	8,475.97	0.00	0.00	0.00
19,500.00	88.95	179.64	11,022.46	-8,575.81	50.14	8,575.95	0.00	0.00	0.00
19,600.00	88.95	179.64	11,024.29	-8,675.79	50.77	8,675.94	0.00	0.00	0.00
19,700.00	88.95	179.64	11,026.13	-8,775.77	51.40	8,775.92	0.00	0.00	0.00
19,800.00	88.95	179.64	11,027.96	-8,875.75	52.03	8,875.90	0.00	0.00	0.00
19,900.00	88.95	179.64	11,029.79	-8,975.73	52.66	8,975.89	0.00	0.00	0.00
20,000.00	88.95	179.64	11,031.62	-9,075.71	53.28	9,075.87	0.00	0.00	0.00
20,100.00	88.95	179.64	11,033.46	-9,175.70	53.91	9,175.85	0.00	0.00	0.00
20,200.00	88.95	179.64	11,035.29	-9,275.68	54.54	9,275.84	0.00	0.00	0.00
20,300.00	88.95	179.64	11,037.12	-9,375.66	55.17	9,375.82	0.00	0.00	0.00
20,400.00	88.95	179.64	11,038.95	-9,475.64	55.80	9,475.80	0.00	0.00	0.00
20,500.00	88.95	179.64	11,040.79	-9,575.62	56.43	9,575.79	0.00	0.00	0.00
20,600.00	88.95	179.64	11,042.62	-9,675.60	57.05	9,675.77	0.00	0.00	0.00
20,700.00	88.95	179.64	11,044.45	-9,775.58	57.68	9,775.75	0.00	0.00	0.00
20,800.00	88.95	179.64	11,046.28	-9,875.56	58.31	9,875.74	0.00	0.00	0.00
20,900.00	88.95	179.64	11,048.12	-9,975.55	58.94	9,975.72	0.00	0.00	0.00
21,000.00	88.95	179.64	11,049.95	-10,075.53	59.57	10,075.70	0.00	0.00	0.00
21,100.00	88.95	179.64	11,051.78	-10,175.51	60.20	10,175.69	0.00	0.00	0.00
21,200.00	88.95	179.64	11,053.61	-10,275.49	60.82	10,275.67	0.00	0.00	0.00
21,300.00	88.95	179.64	11,055.45	-10,375.47	61.45	10,375.65	0.00	0.00	0.00
21,400.00	88.95	179.64	11,057.28	-10,475.45	62.08	10,475.64	0.00	0.00	0.00
21,500.00	88.95	179.64	11,059.11	-10,575.43	62.71	10,575.62	0.00	0.00	0.00
21,600.00	88.95	179.64	11,060.94	-10,675.41	63.34	10,675.60	0.00	0.00	0.00
21,700.00	88.95	179.64	11,062.78	-10,775.40	63.96	10,775.59	0.00	0.00	0.00
21,800.00	88.95	179.64	11,064.61	-10,875.38	64.59	10,875.57	0.00	0.00	0.00
21,900.00	88.95	179.64	11,066.44	-10,975.36	65.22	10,975.55	0.00	0.00	0.00
22,000.00	88.95	179.64	11,068.27	-11,075.34	65.85	11,075.53	0.00	0.00	0.00
22,100.00	88.95	179.64	11,070.11	-11,175.32	66.48	11,175.52	0.00	0.00	0.00
22,200.00	88.95	179.64	11,071.94	-11,275.30	67.11	11,275.50	0.00	0.00	0.00
22,300.00	88.95	179.64	11,073.77	-11,375.28	67.73	11,375.48	0.00	0.00	0.00
22,400.00	88.95	179.64	11,075.60	-11,475.26	68.36	11,475.47	0.00	0.00	0.00
22,500.00	88.95	179.64	11,077.44	-11,575.25	68.99	11,575.45	0.00	0.00	0.00
22,600.00	88.95	179.64	11,079.27	-11,675.23	69.62	11,675.43	0.00	0.00	0.00
22,700.00	88.95	179.64	11,081.10	-11,775.21	70.25	11,775.42	0.00	0.00	0.00
22,800.00	88.95	179.64	11,082.93	-11,875.19	70.87	11,875.40	0.00	0.00	0.00
22,900.00	88.95	179.64	11,084.76	-11,975.17	71.50	11,975.38	0.00	0.00	0.00
23,000.00	88.95	179.64	11,086.60	-12,075.15	72.13	12,075.37	0.00	0.00	0.00
23,100.00	88.95	179.64	11,088.43	-12,175.13	72.76	12,175.35	0.00	0.00	0.00
23,200.00	88.95	179.64	11,090.26	-12,275.11	73.39	12,275.33	0.00	0.00	0.00
23,300.00	88.95	179.64	11,092.09	-12,375.10	74.02	12,375.32	0.00	0.00	0.00
23,400.00	88.95	179.64	11,093.93	-12,475.08	74.64	12,475.30	0.00	0.00	0.00
23,500.00	88.95	179.64	11,095.76	-12,575.06	75.27	12,575.28	0.00	0.00	0.00
23,600.00	88.95	179.64	11,097.59	-12,675.04	75.90	12,675.27	0.00	0.00	0.00
23,700.00	88.95	179.64	11,099.42	-12,775.02	76.53	12,775.25	0.00	0.00	0.00
23,800.00	88.95	179.64	11,101.26	-12,875.00	77.16	12,875.23	0.00	0.00	0.00
23,813.25	88.95	179.64	11,101.50	-12,888.25	77.24	12,888.48	0.00	0.00	0.00
TD at 23813.25									



Phoenix Planning Report



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Company:	Earthstone Operating, LLC	TVD Reference:	RKB @ 3564.50usft (Scandril Star)
Project:	Lea County, NM (Nad 83 NME)	MD Reference:	RKB @ 3564.50usft (Scandril Star)
Site:	Pakse South Fed Com	North Reference:	Grid
Well:	Pakse South Fed Com 321H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 11-29-22		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
FTP - Pakse South Fe - plan misses target center by 176.17usft at 10800.00usft MD (10730.13 TVD, 88.61 N, -4.30 E) - Point	0.00	0.00	10,861.50	205.98	-5.62	570,045.87	728,052.80	2° 33' 56.341449 N	3° 43' 38.125700 W
LTP - Pakse South Fe - plan hits target center - Point	0.00	0.00	11,099.85	-12,798.25	76.67	557,041.64	728,135.09	2° 31' 47.659950 N	3° 43' 38.028986 W
BHL - Pakse South Fe - plan hits target center - Point	0.00	0.00	11,101.50	-12,888.25	77.24	556,951.64	728,135.66	2° 31' 46.769365 N	3° 43' 38.028308 W

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,099.50	1,099.50	Rustler		1.050	179.64	
1,349.50	1,349.50	Salado		1.050	179.64	
2,701.50	2,697.94	Base Salt		1.050	179.64	
3,693.68	3,686.36	Capitan Reef		1.050	179.64	
5,266.42	5,254.26	Bell Canyon		1.050	179.64	
5,706.42	5,694.26	Cherry Canyon		1.050	179.64	
6,273.42	6,261.26	Brushy Canyon		1.050	179.64	
7,886.42	7,874.26	Top BSPG Lime		1.050	179.64	
8,921.42	8,909.26	1st BSPG Ss		1.050	179.64	
9,231.42	9,219.26	2nd BSPG Carb		1.050	179.64	
9,454.42	9,442.26	2nd BSPG Ss		1.050	179.64	
9,951.42	9,939.26	3rd BSPG Carb		1.050	179.64	
10,525.21	10,507.99	3rd BSPG Ss		1.050	179.64	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,600.00	1,600.00	0.00	0.00	KOP, Begin 2.00°/100' Build	
1,849.92	1,849.60	10.89	-0.21	Hold 5.00° Inc at 358.89° Azm	
4,882.25	4,870.40	275.04	-5.33	Begin 2.00°/100' Drop	
5,132.17	5,120.00	285.93	-5.54	Begin Vertical Hold	
10,309.65	10,297.49	285.93	-5.54	KOP2, Begin 10.00°/100' Build	
11,199.15	10,870.35	-276.52	-2.00	LP, Hold 88.95° Inc at 179.64° Azm	
23,813.25	11,101.50	-12,888.25	77.24	TD at 23813.25	

Well Name: PAKSE SOUTH FED COM	Well Location: T20S / R32E / SEC 24 / NWNW / 32.5650843 / -103.7272428	County or Parish/State: LEA / NM
Well Number: 321H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM077055	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002550827	Well Status: Drilling Well	Operator: EARTHSTONE OPERATING LLC

Notice of Intent

Sundry ID: 2705702

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 12/02/2022	Time Sundry Submitted: 02:57
Date proposed operation will begin: 12/02/2022	

Procedure Description: SUNDRY TO REVISE FTP/LTP/BHL; DEEPEN INTERMEDIAT #2 CASING POINT; REVISE TYPE OF PROD CASING USED FIRST TAKE POINT FROM: D-24-20S-32E; 100 FNL, 1030 FWL TO: D-24-20S-32E; 100 FNL, 335 FWL LAST TAKE POINT FROM: E-36-20S-32E; 2541 FNL, 1030 FWL TO: E-36-20S-32E; 2541 FNL, 335 FWL BOTTOM HOLE LOCATION FROM: E-36-20S-32E; 2631 FNL, 1030 FWL TO: E-36-20S-32E; 2631 FNL, 335 FWL INTERMEDIATE #2 CASING POINT FROM: 4700' TO: 5286' W/ DV TOOL @ 3591' PRODUCTION CASING FROM: 17# P-110 LTC TO: 20# P-110 RY VARN

NOI Attachments

- Procedure Description
- 5.50_20__VAHC_P110_RY_VARN_AC__6.300_Cplg__20221202145709.pdf
 - ESTE_Energy__Paske_South_Fed_Com_321H__WBD_20221202145555.pdf
 - Pakse_South_Fed_Com_321H__Plan_1_11_29_22_20221202145555.pdf
 - Casing_Calculator__Paske_South_Fed_Com_321H_20221202145554.pdf
 - ESTE_PAKSE_SOUTH_FED_COM_321H_REV_C_102_20221202145526.pdf

Well Name: PARSE SOUTH FED COM	Well Location: T20S / R32E / SEC 24 / NWNW / 32.5650843 / -103.7272428	County or Parish/State: LEA / NM
Well Number: 321H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM077055	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002550827	Well Status: Drilling Well	Operator: EARTHSTONE OPERATING LLC

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: JENNIFER ELROD	Signed on: DEC 02, 2022 02:57 PM
Name: EARTHSTONE OPERATING LLC	
Title: Senior Regulatory Technician	
Street Address: 1400 WOODLOCH FOREST DR STE 300	
City: THE WOODLANDS	State: TX
Phone: (817) 953-3728	
Email address: JELROD@EARTHSTONEENERGY.COM	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 02/21/2023
Signature: Chris Walls	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 188810

CONDITIONS

Operator: Earthstone Operating, LLC 1400 Woodloch Forest; Ste 300 The Woodlands, TX 77380	OGRID: 331165
	Action Number: 188810
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	3/9/2023