

3. Select New Job



4. Select the	Folder Icon
📡b: 8568_PL	EVNA_SLIDE\ 🕘 🥥 ? 🗕 🗙
Job name:	2
Template:	Default 🔻
_ Properties———	
Coord. sys.:	Scale: 1.000000000
Units (Dist.):	Meters
Linked files:	None
Active map:	None
Feature library:	None 1/2
<u> </u>	
Esc	Accept

5. Select the New Folder Icon



6. Rename "New Folder" to BASELINE, and select OK



- 7. Brings you back to New Job screen New job: BASELINE -**)** 🖉 🔶 — × Job name: ? Template: Default • Properties Coord. sys.: Scale: 1.0000000000 Units (C): Meters Linked files: None Active map: None Feature library: None $1^{/2}$ Esc Accept
 - 8. Name the job, i.e. A0 for base on A0 point. Select the Coordinate System

🛞 New job: BASE	ELINE\ -> 🕗 ? - ×
Job name:	AO
Template:	Default 🔻
_┌ Properties———	
Coord. sys.:	Scale: 1.000000000
Units (Dist.):	Meters
Linked files:	None
Active map:	None
Feature library:	None 1/2
Esc	Enter

9. Select No Projection / No Datum



10. Select Grid under Coordinates and input a close estimated Project Height. Click Enter. Click Store

🛞 No	projec	tion/no	o datum	I →	? –	- ×
Site ca Coordina Grid Use geo	libration ates: T]	Proj 70	ect height: D.000m	•	
Esc					Sto	ore

11. Make sure Meters is in the units. Click 1/2 to get to second page

🛞 New job: BASE	ELINE\A0 🧈 🖉 ? 🗕 🗙
Job name:	<u>A0</u>
Template:	Default 🔹
Properties	
Coord. sys.:	No projection / no datum
Units (Dist.):	Meters
Linked files:	None
Active map:	None
Feature library:	None 1/2
<u> </u>	
Esc	Accent

12. Have Cogo Se	ettings as Ground, and select Ac	cept
除 New job: BASE	ELINE\A0 -> 📀 ? - ×	
Cogo settings:	Ground	
Additional settings:	Off	
Media file:	Previous point	
Reference:	?	
Description:	?	
Operator:	?	
Notes:	?	
Tectonic plate:	? 2/2	
Esc	Accept	



14. Select Points

📎 Key in	→ ⊘	? – X
<u>P</u> oints		
Lines		
Arcs		
Alignments		
<u>N</u> otes		
Back		Next



15. Make sure Northing and Easting is shown, if not, click Options, and select Grid and Accept

16. Enter Point Name, Assumed Northing, Assumed Easting, and Assumed Elevation close to project height. Check Control Point on. Click Store





19. Select Start Base Receiver

Measure	-) (? –	×
<u>S</u> tart base receiver			
<u>M</u> easure points			
<u>M</u> easure codes			
<u>C</u> ontinuous topo			
<u>Site calibration</u>			
End GNSS base survey ■			
Back		Nez	ĸt

20. Input Antenna Height, then click the right arrow next to Point Name. Select Key In

🛞 Start bas	e		A		? .	<u> </u>
Point name:		Code:				43%
?						/0%
Observation class:		Antenna he	ight (Uncor	r):	1×	17
Autonomous		.815	I		I	
Measured to:					Î	2
Center of bur	iper	•			A	r
Station index:	·	Transmit de	elay:		M	<u>1</u> ap
15	[0 ms	•		М	<u>e</u> nu
					F <u>a</u> v	orites
					S <u>w</u> i	tch to
	No surve	y PDOP:2	2.7			
Esc					Er	nter

😰 Point			×		?.	- ×		
Point name:		Code:				43%		
?		?				70%		
Northing:		Easting:			4×	17		
?		?			Ĩ	×		
Elevation:					Ĩ	0.815	-	
?					A	0.015		
					M	<u>l</u> ap		
					M	enu		
				,	F <u>a</u> v	orites		
					S <u>w</u> i	tch to		
	No surve	y PDOP:2.	.7					
Esc Here			Options					

21. Be sure a height is listed on the second GPS Head. Select Options

22. Choose WGS84, click Accept

۵	Options			*	0	? _	×
Coordi	nate view:						
WGS	84	-					
		No surve	y PDOP:2	2.4			_
ESC						Acce	pt

23. Enter Point Name (use same point name i.e. A0 with added GNSS extension to differ from assumed coordinate point). Wait for about a minute for heads to get good coordinates. Select Here a few times to make sure the coordinates don't change much, it may take a minute or two.

👰 P	oint			2	? -	- ×
Point na	ame:		Code:			42%
?			?			70%
Latitude	2:				4	17
?				•	I	
Longitu	de:			_	T	0.945
?						0.015
Height	(WGS84):				M	lap
?					M	enu
				1/2	Fav	orites
				▼	S <u>w</u> it	tch to
		No surv	ey PDOP:2	2.4		
Esc	Here			Options		
7	7					

👰 F	Point			*	0	? –	- X	
Point n	iame:		Code:		_		95%	
AOGN	ISS		0				92% 40	
Latitud	e:			_		1	18	
46°39	9'19.4704	1N				I	×.	
Longitu	ude:			_			`	
111°៖	52'03.482	51W	►			A	ŕ	
Height	(WGS84):		Control poir	it:		M	ар	
1156	.759m					Me	nu	
				1	1/2	Favo	orites	
					-	S <u>w</u> it	ch to	
		No surve	y PDOP:1	.6				
Esc				Options		St	ore	

24. Click Store

😰 Start base		* 2	? -	- X
Point name:	Code:			94%
A0GNSS >	0			88%
Observation class:	Antenna he	ight (Uncorr):	4	19
Keyed in	1.549m		I	
Measured to:				4 540
Center of bumper	•			1.548
Station index:	Transmit de	lay:	M	lap
10	0 ms	•	M	<u>e</u> nu
			Favo	orites
			S <u>w</u> it	tch to
No surv	vey PDOP:1	.7		
Esc			St	art

25. Click Start



26. Choose Measure



27	7. Choose Site Calib	oration				
📎 I	leasure		x	2	? –	×
<u>S</u> tar	t base receiver					
<u>M</u> ea	sure points					
<u>M</u> ea	sure codes					
<u>C</u> on	tinuous topo					
<u>S</u> ite	calibration	K				
<u>E</u> nd	GNSS base survey					
Pack	No survey	PDOP:1	.8		Move	•
васк					Mexi	

28. Click Add

Site calibration			×) (? – ×	
Poin	it	н	.Resid	V.Re	esid	Use
No po	oints					
(:: >
.						
ESC	Add			Options		

29. Enter point number i.e A0, or click the right arrow, and choose point from list in both Grid Point Name, and GNSS Point Name

😰 Calibra	tion point		×) (? –	
Grid point name	e: (Code:			42%
?		?			
GNSS point nam	ne: (Code:			
?		?			
Use:					
Off 🔻					
				<u>M</u> a	p
				Mer	nu
				F <u>a</u> vor	rites
				S <u>w</u> ito	h to
	Connectir	ng to rece	iver		
Esc				Acce	ept

30	D. Keep U	se as H	lorizontal	& Vertica	I. C	Click A	Accep
)	Calibratior	n point		*		? –	- ×
Grid po	oint name:		Code:				94%
A0			0				86%
GNSS	point name:		Code:			4	16
AOGN	ISS		0				
Use:						-	2
Horiz	contal & v	ertical	•			1	ŕ
						<u>M</u> a	ар
						Me	nu
						F <u>a</u> vo	rites
						S <u>w</u> ite	ch to
	1	lo surve	ey PDOP:	1.4			
Esc						Acc	ept

31. Click Apply





33. Choose Measure Points

🛞 I	leasure			*	2?	- ×
<u>S</u> tai	t base rec	eiver				
<u>M</u> ea	sure poin	ts				
<u>M</u> ea	sure code	S				
<u>C</u> on	tinuous to	po				
<u>S</u> ite	calibratio	n				
<u>E</u> nd	GNSS bas	e survey				
D - ala		No surve	y PDOP:1	1.4		March
васк						Next

34. Click Accept

L	<u>ک</u>	Select ba	ase stat	ion	×)	? _	- ×
	Inde	ex		Reliabilit	.y		42%
	15			100%		1	16
						T T	2
						<u>M</u> a Me	ap inu
						F <u>a</u> vo	rites
						S <u>w</u> ite	ch to
	Esc		No surv	ey PDOP:2	2.2	Acc	ept

35. Enter Information and Point Name. Be sure Observed Control Point is selected. Input Antennae Height



36. Click Measure. It will take 180 seconds before it will let you finish measuring. Note: Measure To Bottom Of Antenna Mount will be used, not Center Of Bumper.

Measure poi	nts	x Ø ? - X
Point name:	Code:	93%
A150	•	► 84%
Method:		14
Observed contro	l point 🔻	T 🕆
Antenna height (Unco	<u>rr)</u> :	2 100
2.100m		1 2.100
Measured to:		<u>M</u> ap
Bottom of antenr	a mount	Menu
		F <u>a</u> vorites
		S <u>w</u> itch to
RTK:Fixed H	:0.004m V:0.006m F	RMS:009
Esc	Ор	tions

37. Click Store

Neasure	points		×) (2	? -	- ×
Point name:		Code:				93%
A150		0				0-1-70
Method:					47	14
Observed cor	ntrol poin	t			h l	
Antenna height (I	Jncorr):				P	2 400
2.100m					'1	2.100
Measured to:					M	lap
Bottom of ant	enna mo	unt 🔻			M	<u>e</u> nu
Time so far:	ļ	Epochs rem	aining:		Fav	orites
3m28s		0			1 9 1	JIILES
					S <u>w</u> it	tch to
RTK	Fixed H:	0.007m V:	0.010m			
ESC			Options		St	ore

38. Continue measure the rest of the points (repeat steps 41 - 43). When done, click ESC



	39. Select J	ODS		
	🔉 Job: BAS	ELINE\A0	A	? – ×
	Jobs	Key in	<u>Cogo</u>	42% 55% 10 10 10 10 10 10 10 10
	Measure	Stakeout	Instrument	Map Menu Favorites
				S <u>w</u> itch to
	Exit RTK:Fixe	d H:0.012m V	:0.024m RMS:019	Enter
	40. Propert	ty of Job		
	🖗 Jobs	•	→ Ø	? – ×
	<u>N</u> ew job		<u>M</u> ap	
	<u>N</u> ew job <u>O</u> pen job		<u>M</u> ap <u>C</u> opy between jo	bs
2	New job Open job Properties of jo	ob	Map Copy between jo Import / Export	bs
2	New job Open job Properties of jo Review job	ob	Map Copy between jo Import / Export Copy job files to	bs
2	New job Open job Properties of jo Review job Point manager	b	MapCopy between joImport / ExportCopy job files toCopy job files fro	bs
2	New jobOpen jobProperties of jeReview jobPoint managerQC Graph	b	Map Copy between jo Import / Export Copy job files to Copy job files fro	bs
2	New job Open job Properties of jo Review job Point manager QC Graph	pb	MapCopy between joImport / ExportCopy job files toCopy job files fro	bs M
2	New job Open job Properties of je Review job Point manager QC Graph Back	pb	Map Copy between jo Import / Export Copy job files to Copy job files fro	bs bs m Next
2	New job Open job Properties of jo Review job Point manager QC Graph Back 41. Units	ob	Map Copy between jo Import / Export Copy job files to Copy job files fro	bs m Next



42. Scroll to the third page to change the Distance display to four decimal places in the drop down and click accept





44. Select Compute Inverse



45. Enter Base Point or choose from List , and same with Observed Control Point

🝥 Comput	e inverse	9	×	0	?.	- ×
From point:	-	To point: ?				42% 55%
Azimuth:		H.Dist: ?		-	# 	11 `
V.Dist: ?	ę	5lope dist: ?			T	.515
Grade: ?					 	lap enu
Δ North:	1	∆ East: 2			Fav	orites
·		1			S <u>w</u> i	tch to
RTK:Fix	(ed H:0.01	3m V:0.02	8m RMS:	022		
ESC			Options		Fas	ST TIX

46. Inverse calculations figured. Repeat for rest of Observed Control Point. Click Esc when done.

Sompute inverse	* 🖉	? — X
From point:	To point: A150	100%
Azimuth (grid): 227°53'07''	H.Dist (grnd): 150.0029m	7
V.Dist: 0.1191m	Slope dist (grnd): 150.0029m	
Grade: 0.0794%		<u>M</u> ap Menu
∆ North (grnd): -100.5945m	∆ East (grnd): −111.2727m	Favorites
Esc	Options	Store