

Visit Date	Attendees	Notes
11/7/2014	JRM, JVG, RC, TMC	Visited site. Homeowner was not home. Observed stakes that were set by MBK on 11/05/2014. Movement measured was about 1/2 inch. Painted crack on road. Photos taken of cracks on road and landside levee slope. POI was entered into 2014 FSRP database.
11/19/2014	JRM, JDL, TMC	Homeowner, John Knickerbocker, was contacted by DWR, Jon McKean, prior to the field visit. Met with Mr. Knickerbocker at about 9:15 AM. Mr. Knickerbocker showed DWR staff the cracking on his property. He also indicated that the southwest corner of his house had settled about 7 inches in the last 2-3 months. Stakes were set along the major crack that traverses the property. Measurements were taken of the major cracking. Photos were taken of minor and major cracks on the inside and outside of the house, homeowner property, landside levee slope, and street. This POI was reported by the LMA. Apparent, localized Settling adjacent to the LS of the levee has caused several cracks off the landside toe and onto the LS slope. The cracks strike at approximately 45° to the levee alignment, and are up to 6" wide. The landside half of the paved crown road is heavily cracked for a length of 160' feet through the affected area. The adjacent landowner reports that the cracking & subsidence has displaced the footing of his house, Throwing it out of level by up to 7". See photos, cross-section & plan map.
11/25/2014	JDL, SA	We refined the plan map near the LS toe of the levee and added a new cross section line (Section B-B). Crack widths measured at the 4 numbered locations shown on the plan map were unchanged since the 19th. I spoke with the landowner again and he stated that his well is ~500' deep and is located on the back edge of his property away from the levee. He also stated that the observed subsidence was first noticed during the summer of 2014.
12/4/2014	JRM, SA	Homeowner not home at time of visit. Current measurements taken on all observation cracks. Observed new crack emerging in alignment with existing property crack on driveway embankment. Appears some cracks have narrowed since previous week by up to 0.11'. Photos taken.
12/10/2014	JRM, JDL, AKA	Met with Dave Robinson (RD 3 Manager) and John Knickerbocker (homeowner). Told them that DWR does not repair levees during the flood season unless there is an emergency. Also that the site will be monitored each week and the Flood Operations Center is aware of this site. Unless the site deteriorates rapidly, it is unlikely that it will be repaired during the flood season. Dave Robinson said that John Knickerbocker did not irrigate his lawn during the 2014 summer and that the agricultural field immediately to the south of Johns property was not irrigated during the summer as well. Measurements were recorded at all monitoring locations. There was not any movement in excess of 0.02 feet.
12/18/2014	JRM, SA	Visited the site at about 10:30 AM. Homeowner was not present. Visual observations did not indicate any changes. There was about 1/4" movement of stakes 3 and 4 (landside levee slope stakes).
12/30/2014	JRM, SA, TMC	Visited the site at about 10:30 AM. Homeowner was not present. Upon arrival, we noticed that the wood deck at the southwest corner of the house had been removed. Photos were taken of this area. No other changes were observed. There was about 3/8" movement of stakes 3 and 4 (landside levee slope stakes). All other stakes remained the same.
1/7/2015	JRM, SA, AKA	Visited the site at about 10:30 AM. Homeowner was not present. Did not appear that any additional work has been done on the wood deck at the southwest corner of the house. No changes were observed. All measured widths essentially remained the same.
1/21/2015	JRM, JDL	Visited the site at about 10:00 AM. Homeowner was not present. Wood deck had been removed from north patio area. Also observed wheel tracks and soil spoils on lawn area just west of north and south patio areas. Brick planter near south patio area appeared to have been disturbed. Crack near driveway was no longer visible. No other changes observed. All measured widths essentially remained the same. Photos taken.
2/4/2015	JRM, AKA	Visited the site at about 10 AM. Homeowner was present as well as Bline Construction, Inc. Construction was taking place on the residence foundation system. Helical piers were being underpinned to the house foundation to raise, level, and stabilize the house. The piers were being drilled to depths of about 40-50 feet below grade. All measurements were taken. No substantial movement indicated in cracks. Photos taken.
3/4/2015	JRM, AKA	Visited the site at about 10 AM. Homeowner was not present. Appeared that construction was complete on the "underpinning" of the house. The wood deck was still removed exposing the new foundation system. Most measurements were taken. Some stakes had been damaged during construction. No substantial movement indicated in cracks. Photos taken.
4/2/2015	JRM, JDL	Visited the site at about 10 AM. Homeowner and Dave Robinson (RD 3 Manager) were at the site. Crack numbers 2, 5, and 6 were filled in with soil and the stakes were removed. The brick planter where crack numbers 7 and 8 were was demolished. There wasn't any negligible change for crack numbers 1, 3, 4, and 9. Homeowner was still in the process of rebuilding the wood deck. It was decided that the monitoring of this site end with the conclusion of the 2015 flood season therefore, this was the final monitoring day. Photos taken.

Crack Number	Measurement												
	11/5/2014	11/7/2014	11/19/2014	11/25/2014	12/4/2014	12/10/2014	12/18/2014	12/30/2014	1/7/2015	1/21/2015	2/4/2015	3/4/2015	4/2/2015
1	-	1/2" (C)	1/2" (C)	1/2" (C)	1/2" (C)	1/2" (C)	1/2" (C)	1/2" (C)	1/2" (C)	1/2" (C)	1/2" (C)	1/2" (C)	1/2" (C)
2	-	-	1.05' (S)	1.05' (S)	1.00' (S)	1-1/2" (C)	-	-	-	-	-	-	#
	-	-	3" (C)	3" (C)	1.08' (G)	1.07' (G)	1.05' (G)	1.06' (G)	1.06' (G)	1.06' (G)	1.06' (G)	1.05' (G)	-
3	-	1/4" (S)	1/4" (S)	1/4" (S)	0" (S)	1/4" (S)	1/2" (S)	0.07' (S)	0.06' (S)	0.06' (S)	0.07' (S)	0.10' (S)	0.06' (S)
	-	-	6" (C)	6" (C)	-	6" (C)*	-	-	-	-	-	-	-
4	-	1/4" (S)	1/4" (S)	1/4" (S)	3/8" (S)	1/2" (S)	3/4" (S)	0.03' (S)	0.03' (S)	**	0.01' (S)	0.03' (S)	0.04' (S)
	-	-	3-1/2" (C)	3-1/2" (C)	-	2" (C)	-	-	-	-	-	-	-
5	-	-	1.36' (S)	1.36' (S)	1.25' (S)	-	-	-	-	-	-	-	#
	-	-	-	-	1.37' (G)	1.37' (G)	1.36' (G)	1.35' (G)	1.35' (G)	1.35' (G)	1.35' (G)	1.35' (G)	-
6	-	-	0.94' (S)	0.94' (S)	0.91' (S)	-	-	-	-	-	-	-	#
	-	-	-	-	0.94' (G)	0.94' (G)	0.93' (G)	0.92' (G)	0.93' (G)	0.92' (G)	0.92' (G)	0.92' (G)	-
7	-	-	0.15' (C)	0.15' (C)	0.15' (C)	0.14' (C)	0.14' (C)	0.14' (C)	0.14' (C)	0.14' (C)	0.14' (C)	0.14' (C)	##
8	-	-	0.12' (C)	0.12' (C)	0.12' (C)	0.12' (C)	0.11' (C)	0.11' (C)	0.12' (C)	0.12' (C)	0.12' (C)	0.12' (C)	##
9	-	-	0.10' (C)	0.10' (C)	0.10' (C)	0.10' (C)	0.10' (C)	0.10' (C)	0.10' (C)	0.10' (C)	0.08' (C)	0.05' (C)	0.06' (C)

S = measurement from stake to stake taken at black mark on stake

G = measurement from stake to stake taken at ground level

C = actual crack width

\* = Depth measured at 6 feet

\*\* = Reset stakes due to disturbance

# = Stakes removed; crack filled with soil

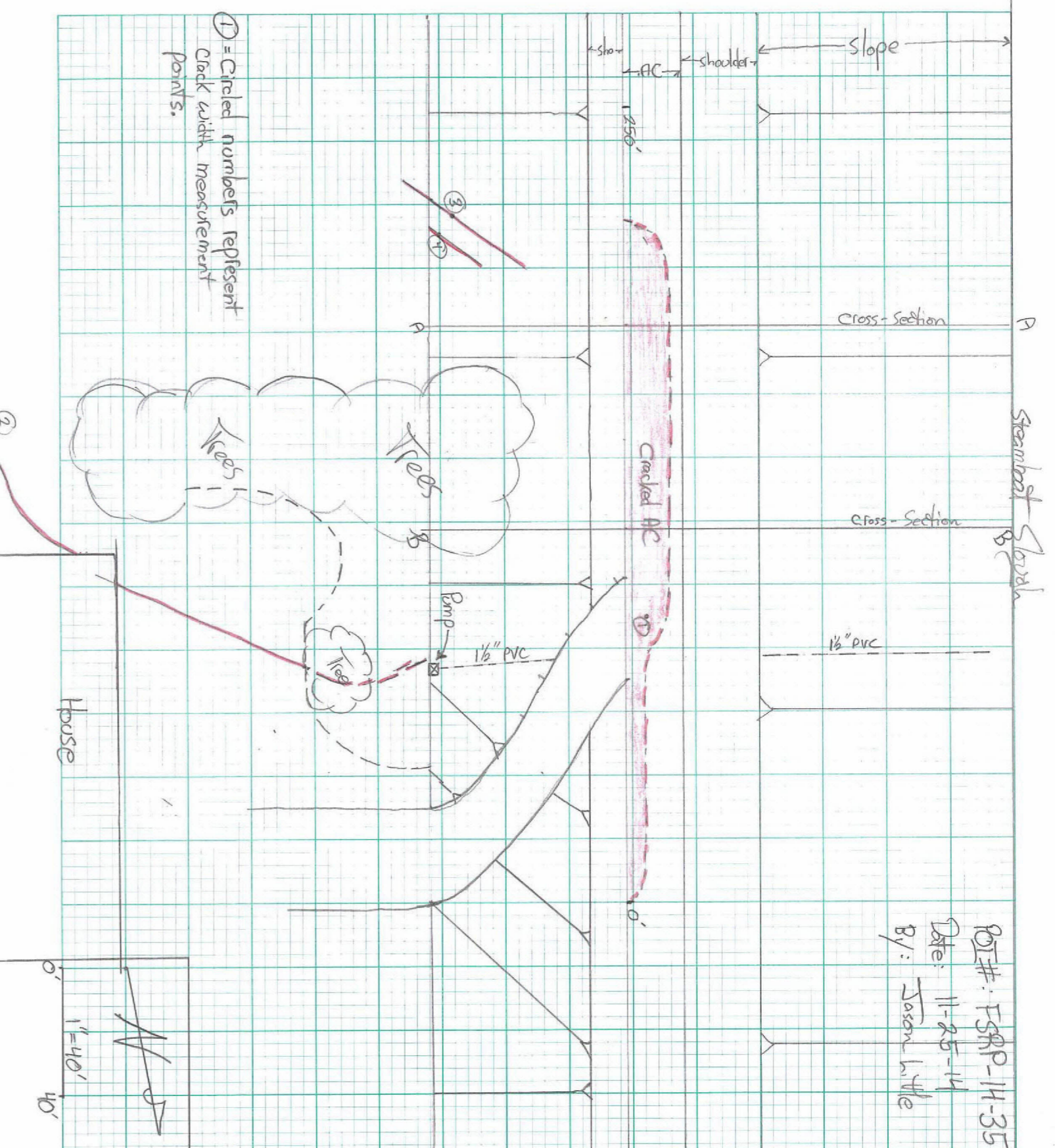
## = Brick planter demolished; unable to measure crack

COMPUTATION SHEET

Project \_\_\_\_\_ Sheet \_\_\_\_\_

Feature \_\_\_\_\_ Designed \_\_\_\_\_ Date \_\_\_\_\_

Item \_\_\_\_\_ Checked \_\_\_\_\_ Date \_\_\_\_\_

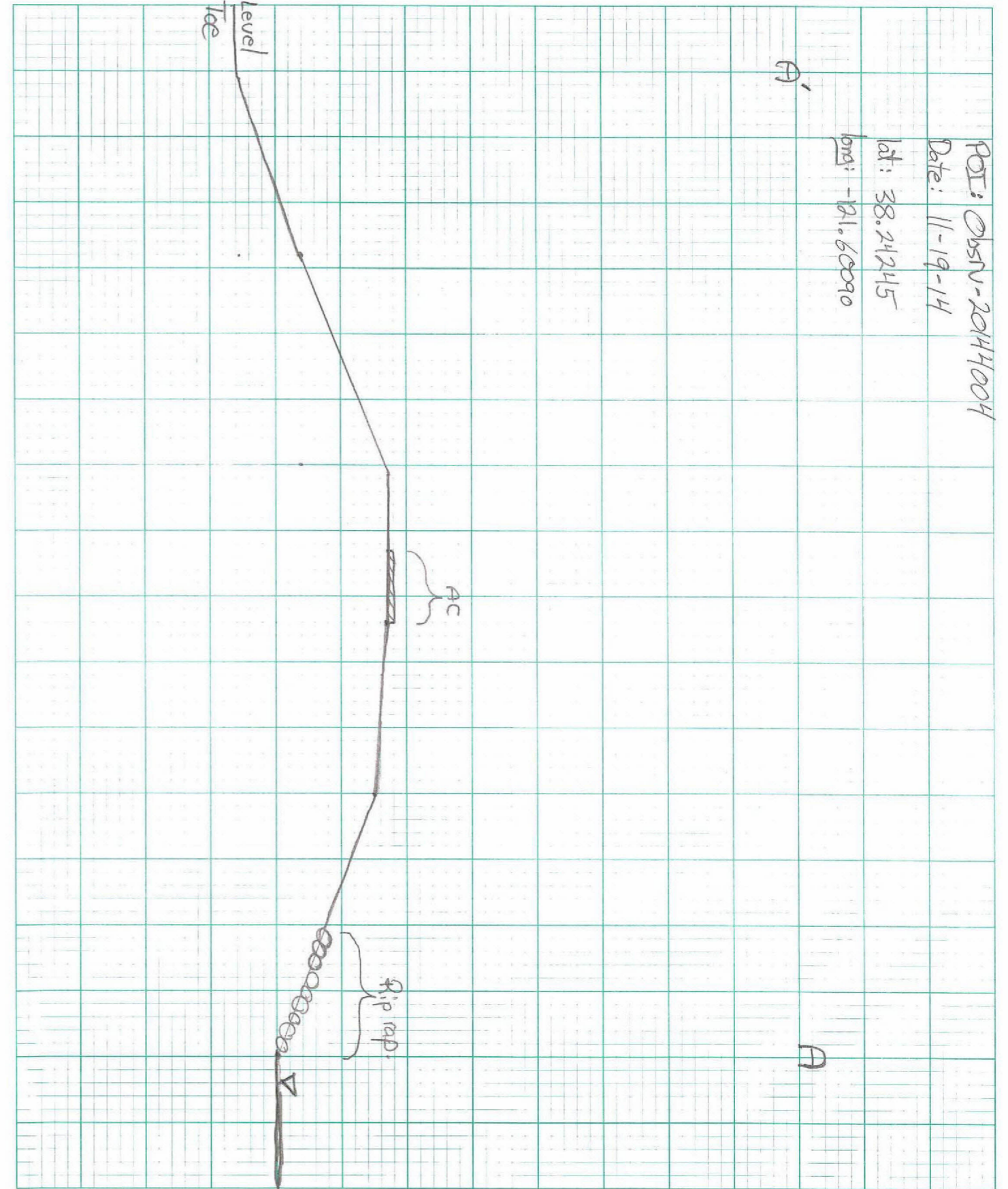


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Item \_\_\_\_\_ Checked \_\_\_\_\_ Date \_\_\_\_\_

