Jet Grouting

FIG_206: Title

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-224)\Fig_206.ai

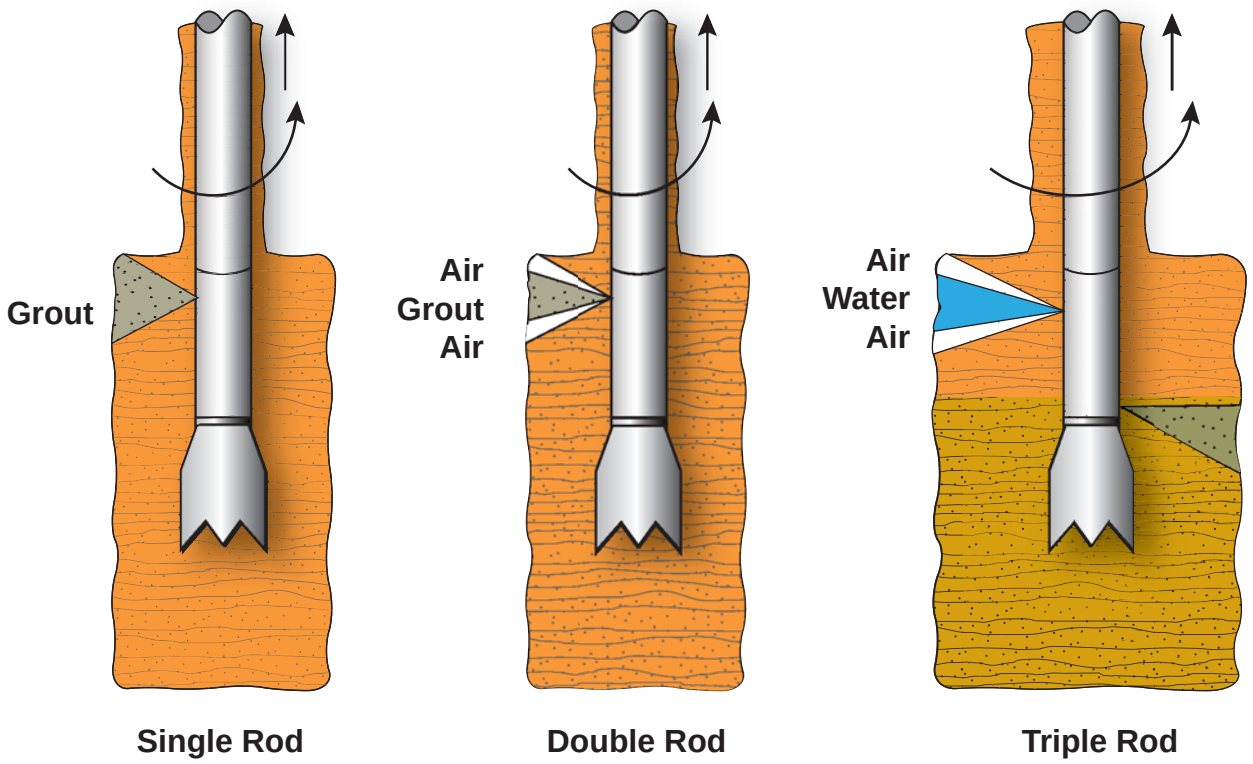


FIG_207: Jet-Grouting Systems

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-224)\FIG_207

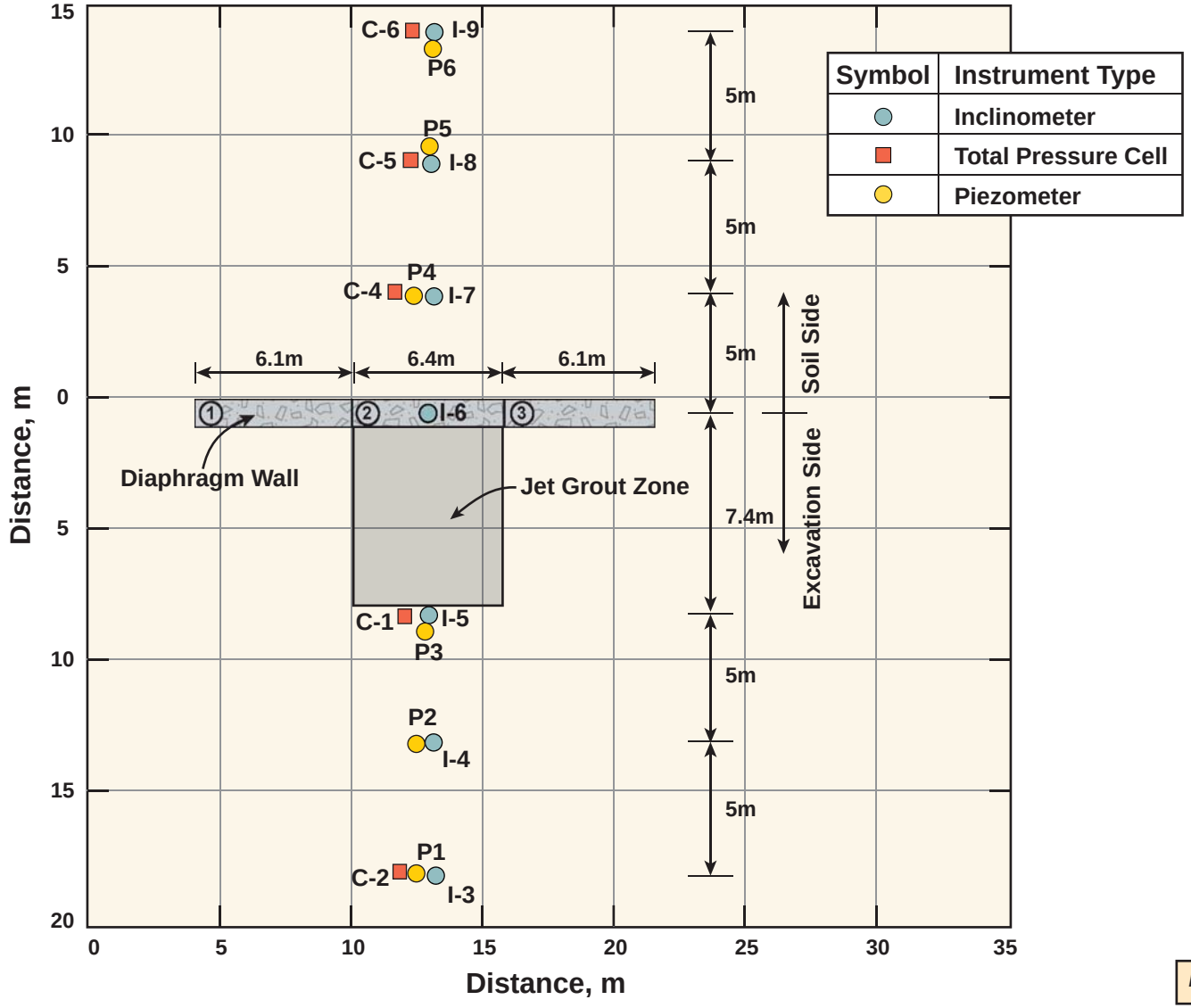
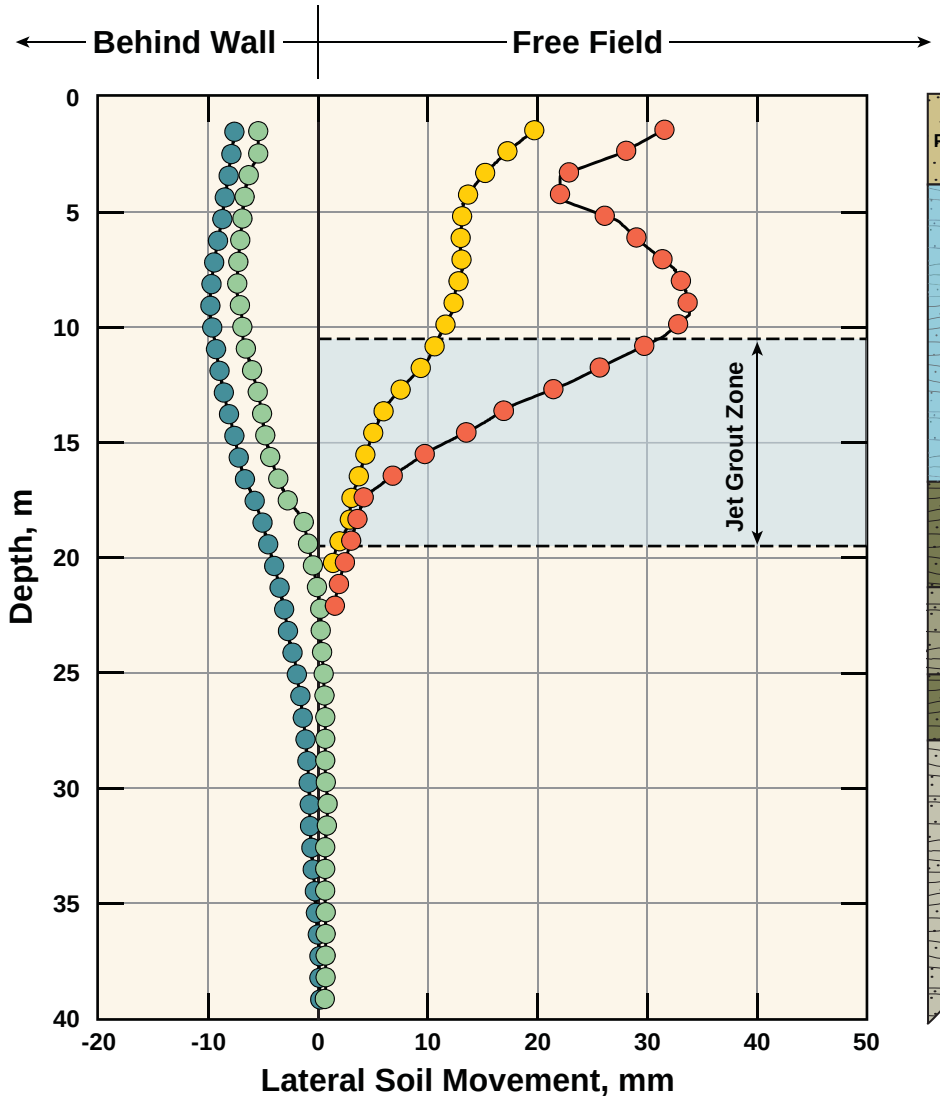
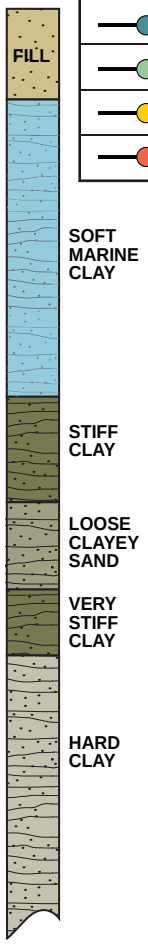


FIG_208: Plan of Singapore Jet-Grout Experiment

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-224)\FIG_208





Symbol	Inclonometer	Jet Grout Column ID
	I-6	C16
	I-7	C14
	I-3	C4
	I-4	C4

Poh and Wong (2001)

FIG_208A: Lateral Deformation Profiles - Singpore Experiment

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-224)\FIG_208

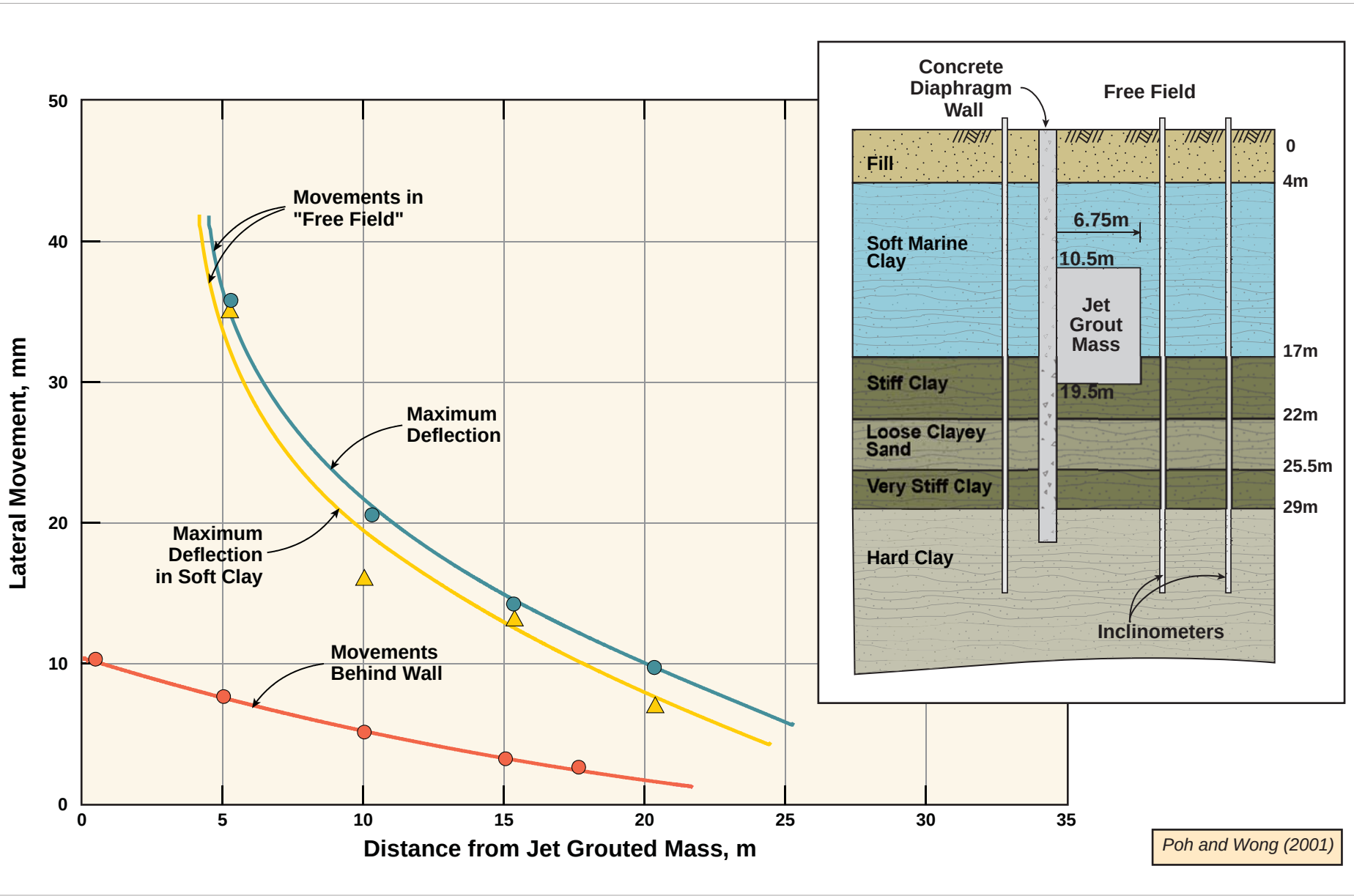


FIG_208B: Lateral Deflections Caused by Jet Grouting - Singapore Experiment

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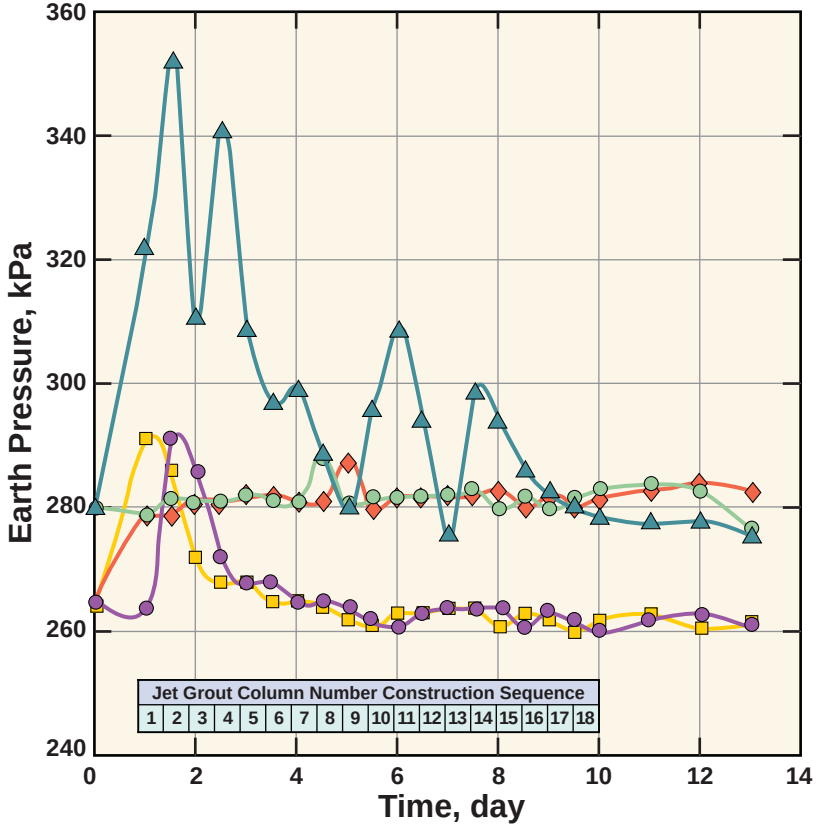
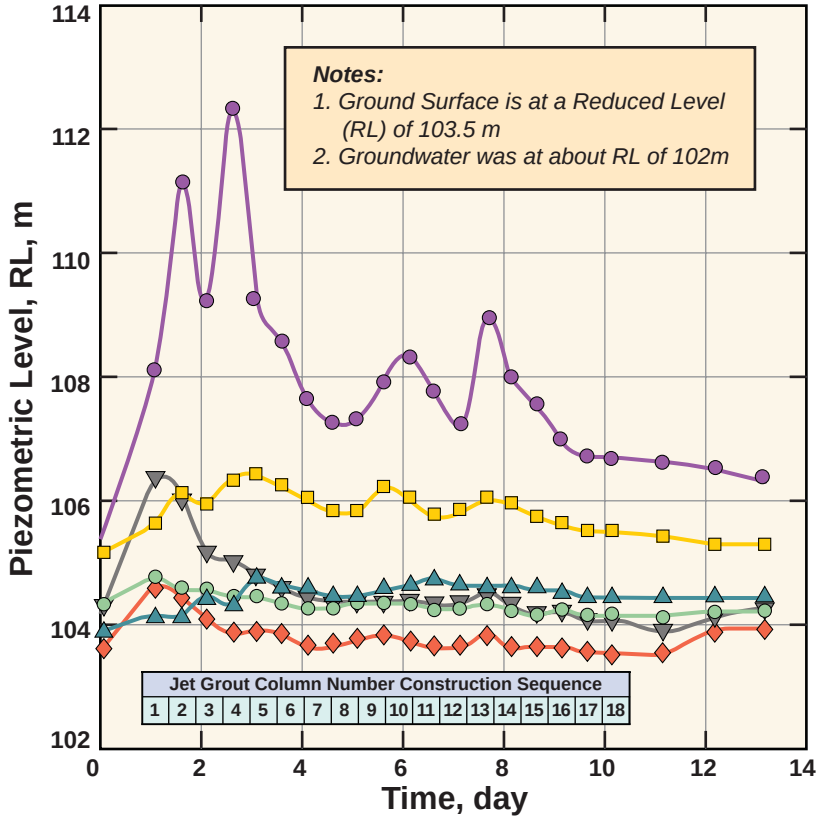


Symbol	Total Pressure Cell ID	Distance from Jet Grout Area	Location
	TPC1	0.25m	Within Excavation
	TPC2	10.25m	
	TPC3	15.25m	
	TPC4	5.4m	Outside Excavation
	TPC5	10.4m	



Symbol	Piezometer ID	Distance from Jet Grout Area	Location
	P1	10.25m	Within Excavation
	P2	5.25m	
	P3	0.25m	
	P4	5.4m	Outside Excavation
	P5	10.4m	
	P6	15.4m	

Poh and Wong (2001)

FIG_209: Changes in Horizontal Pressures and Excess Pore Pressures Caused by Jet-Grouting: Singapore Experiment

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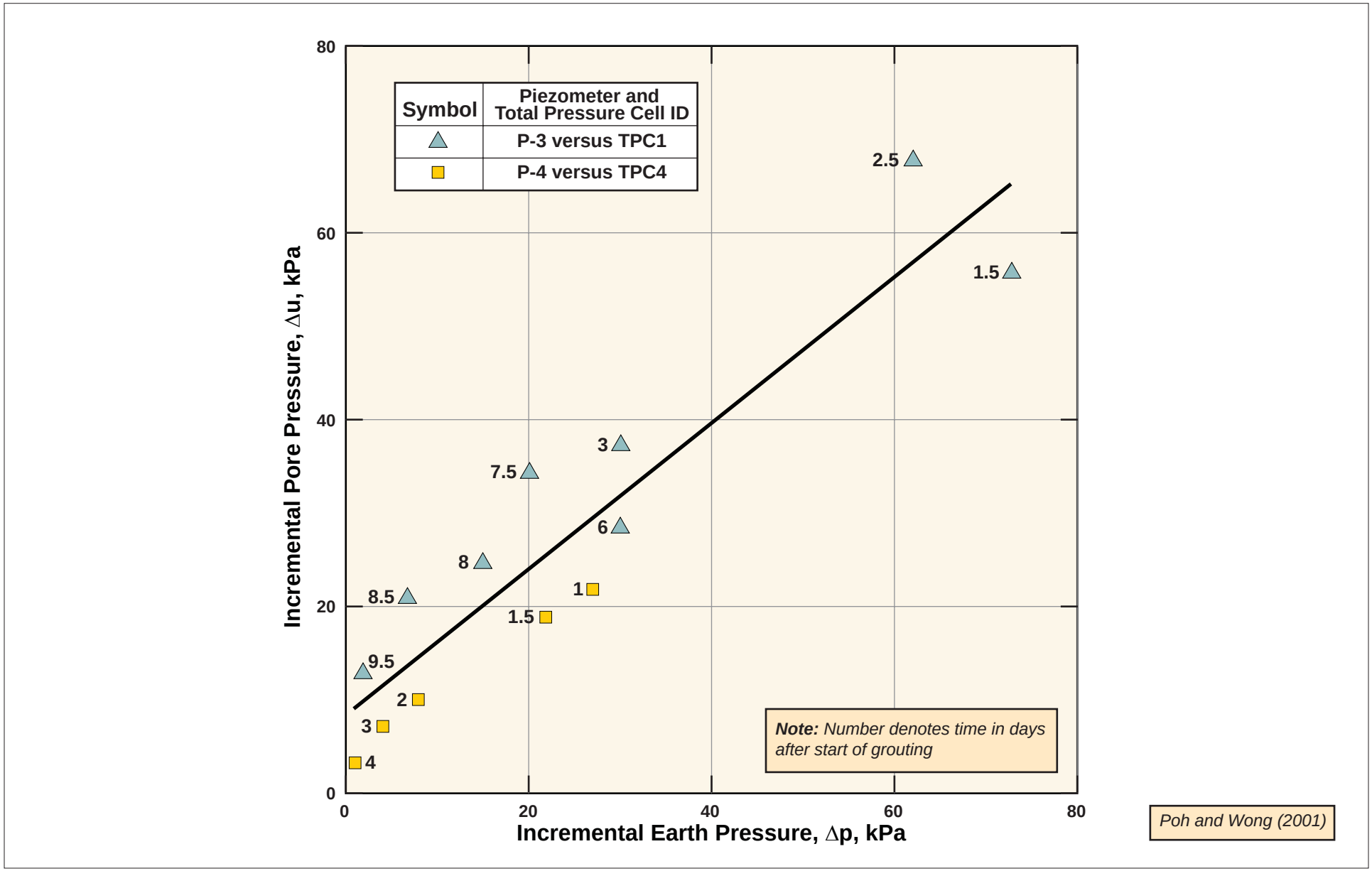

FIG_210: Excess Pore Pressures and Lateral Pressures Caused by Jet-Grouting: Singapore Experiment

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-224)\FIG_210

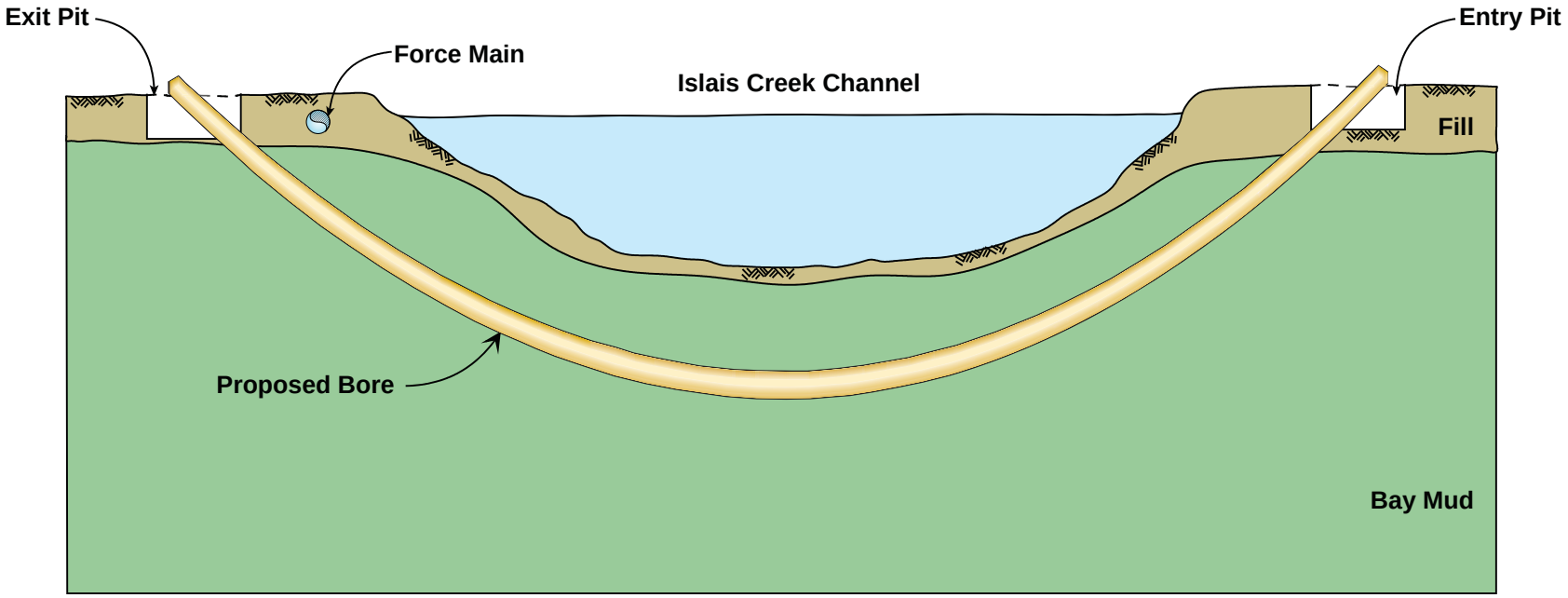

FIG_211: Construction of Duct Banks Under Islais Creek Using Directional Driving

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-224)\FIG_211

FIG_211A: Construction of Duct Banks Under Islais Creek Using Directional Driving

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-224)\FIG_211A

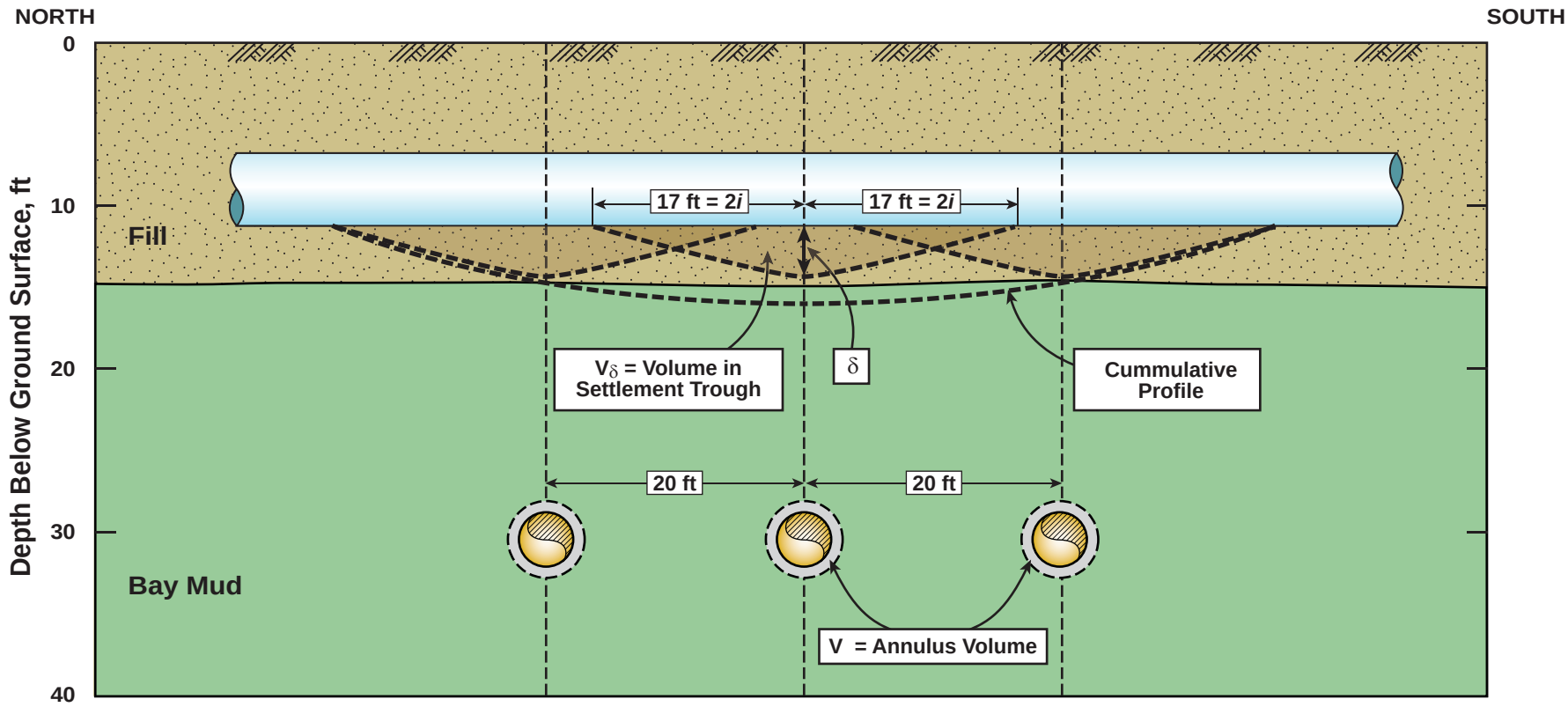

FIG_212: Settlements Caused by Directional Drilling

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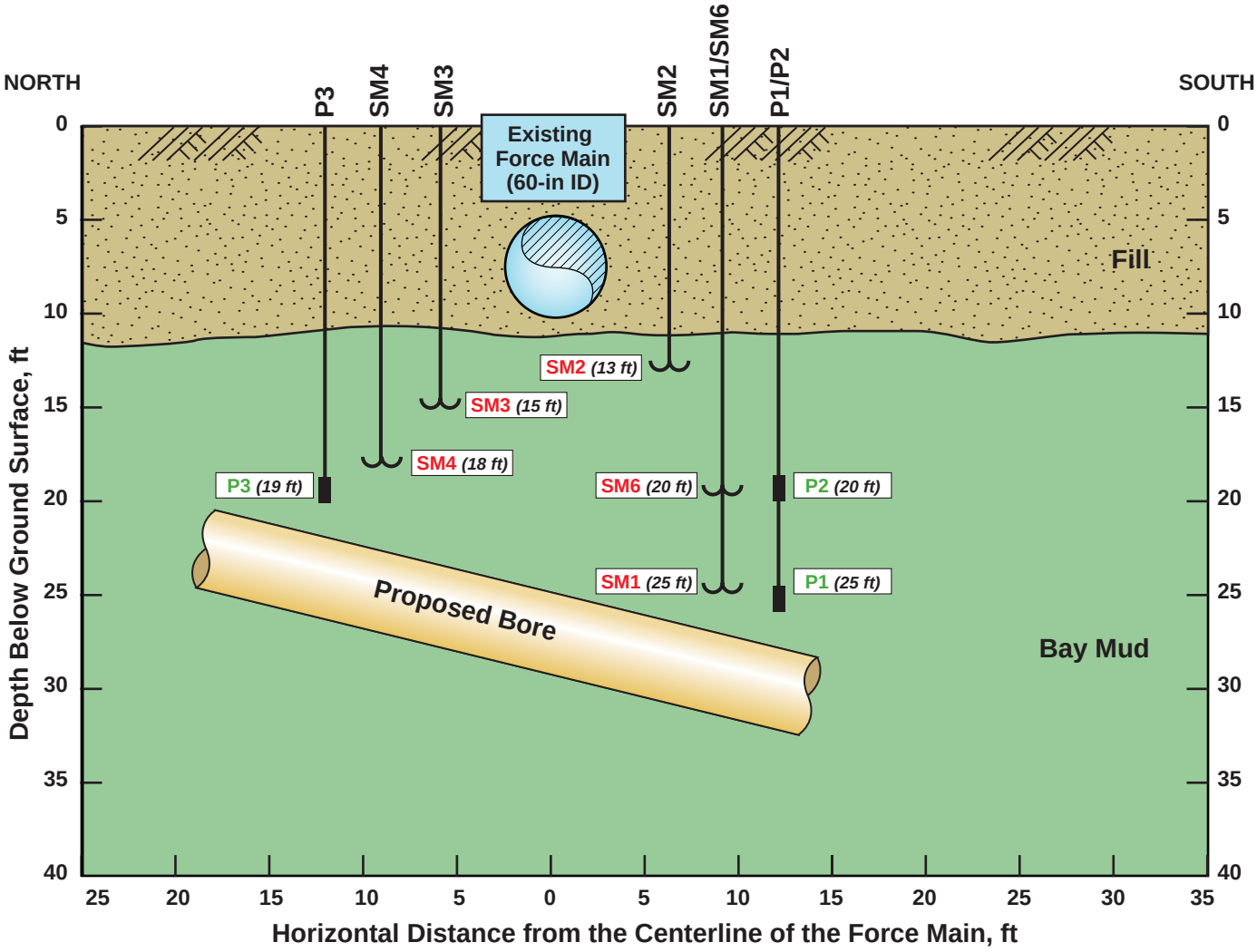


FIG_213: Subsurface Section Showing Instrumentation Installed Over the Proposed Bore No. 3

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-224)\FIG_213

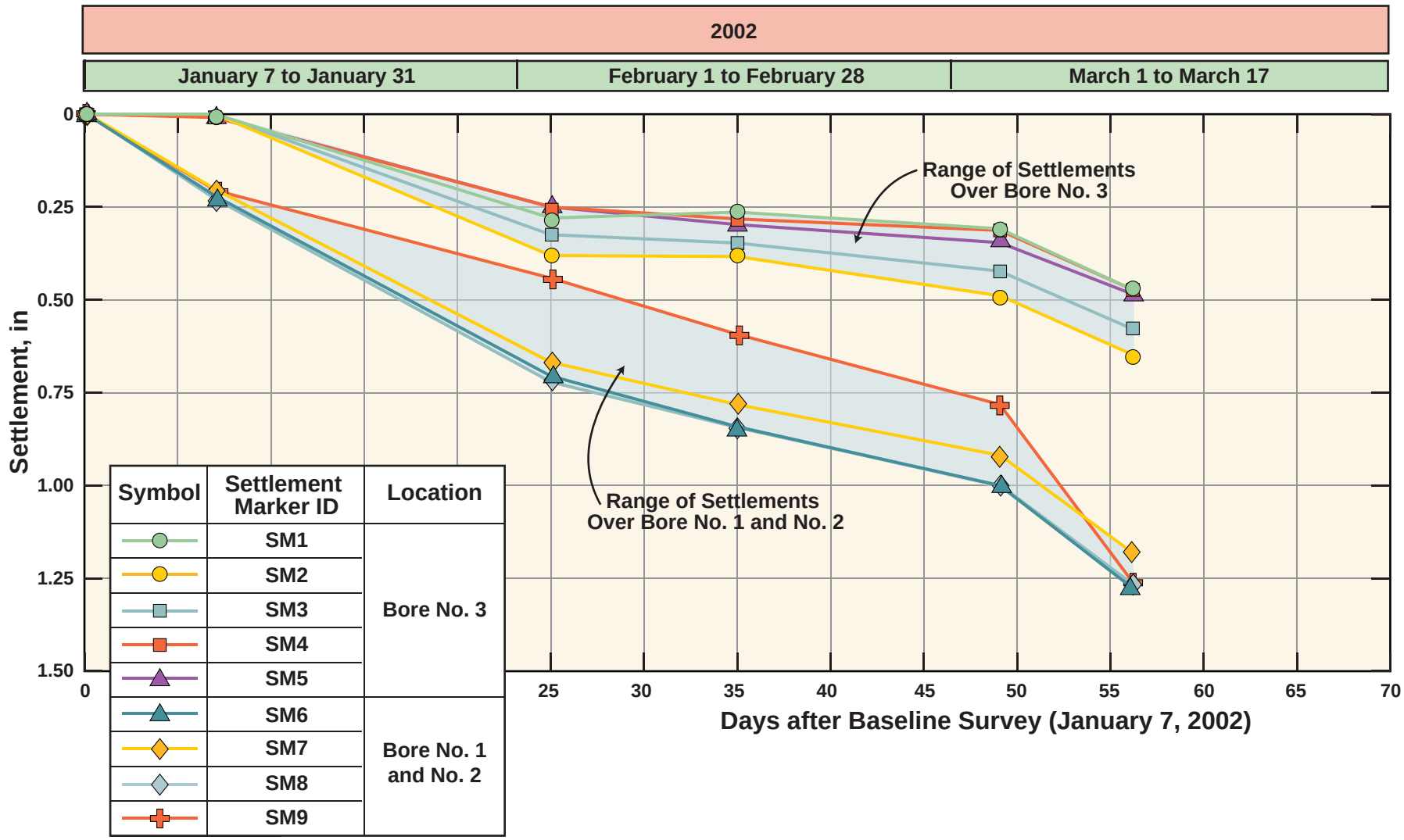


FIG_213A: Settlements of the Force Main Prior to the Installation of the Third Bore

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-229)\FIG_213A

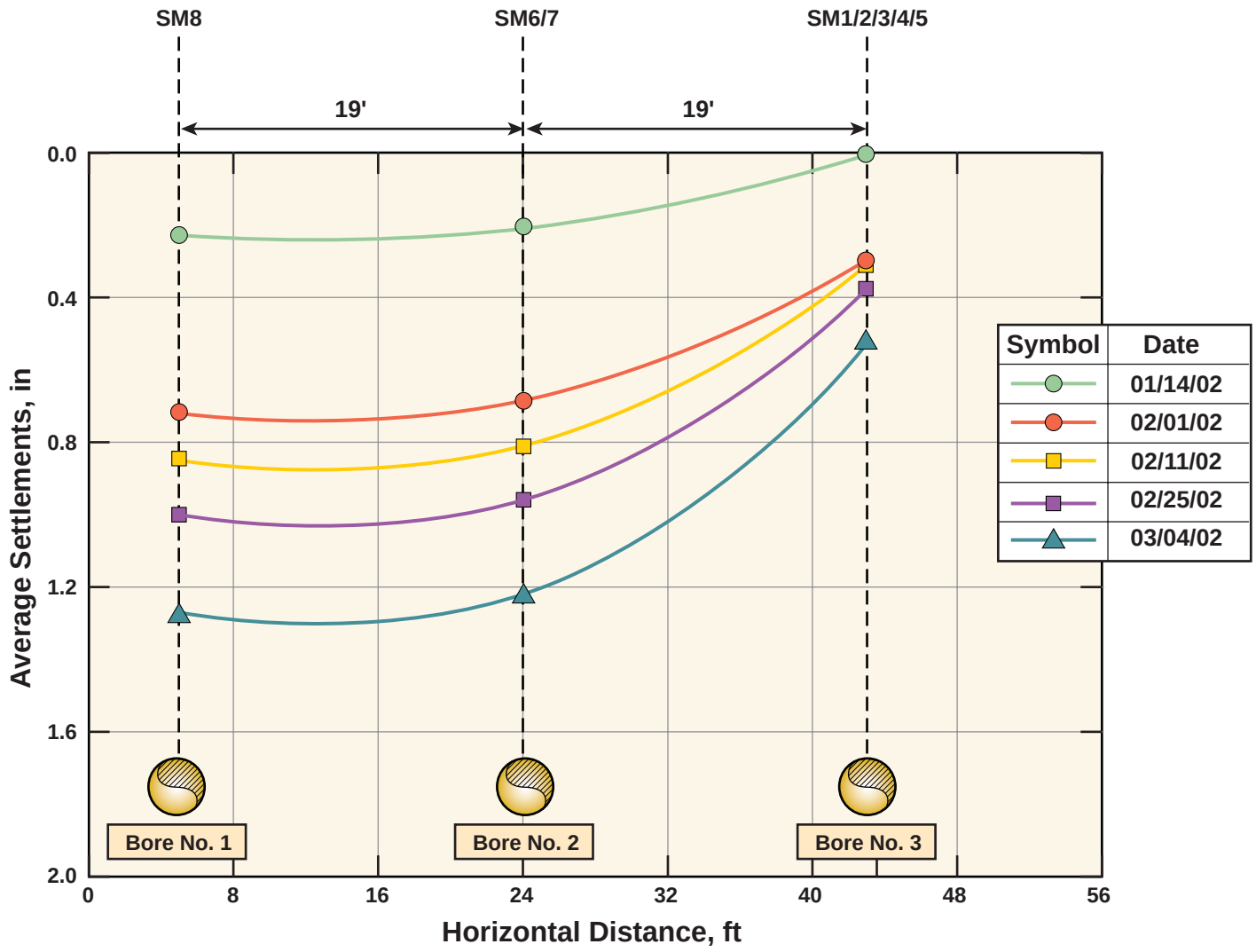


FIG_213B: Settlement Profile Prior to the Instrallation of Third Bore

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-229)\FIG_213B

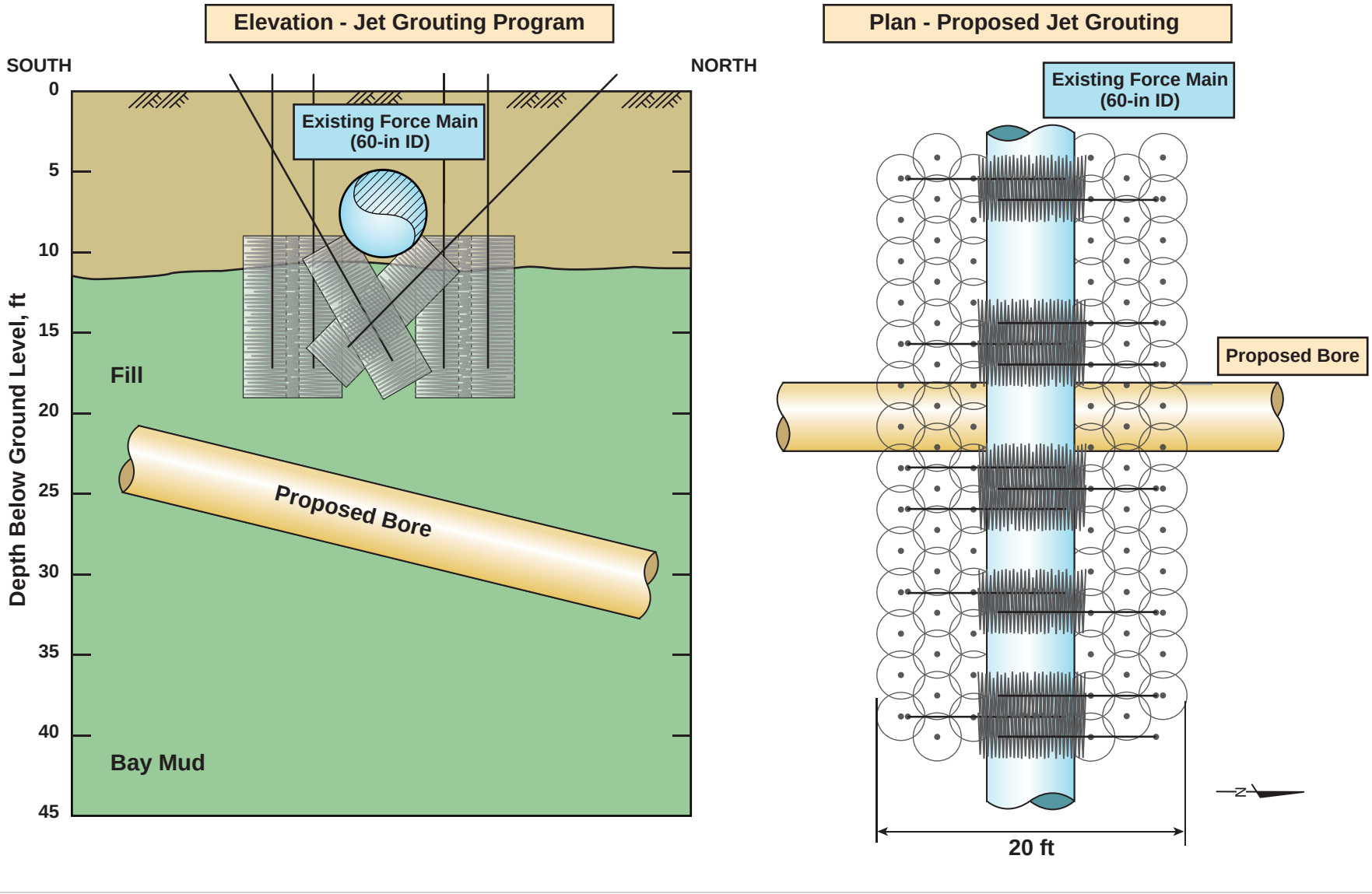
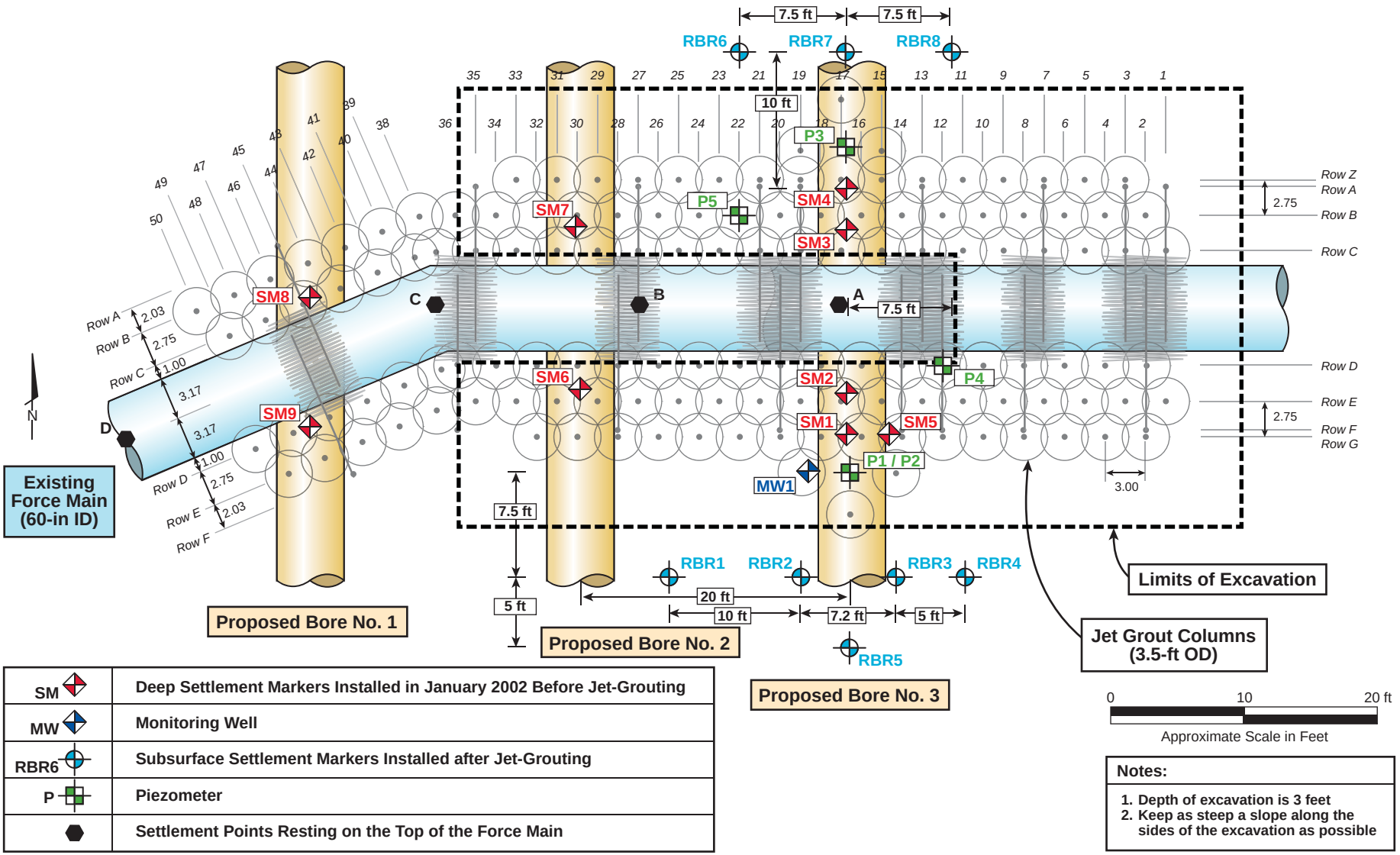


FIG_213C: Settlements of the Force Main Prior to the Installation of the Third Bore

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-229)\FIG_213C



SM	Deep Settlement Markers Installed in January 2002 Before Jet-Grouting
MW	Monitoring Well
RBR6	Subsurface Settlement Markers Installed after Jet-Grouting
P	Piezometer
	Settlement Points Resting on the Top of the Force Main

Notes:

1. Depth of excavation is 3 feet
2. Keep as steep a slope along the sides of the excavation as possible

FIG_213D: Excess Pore Pressures Caused by Jet -Grouting: Effect of Single Column

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-224)\FIG_213D

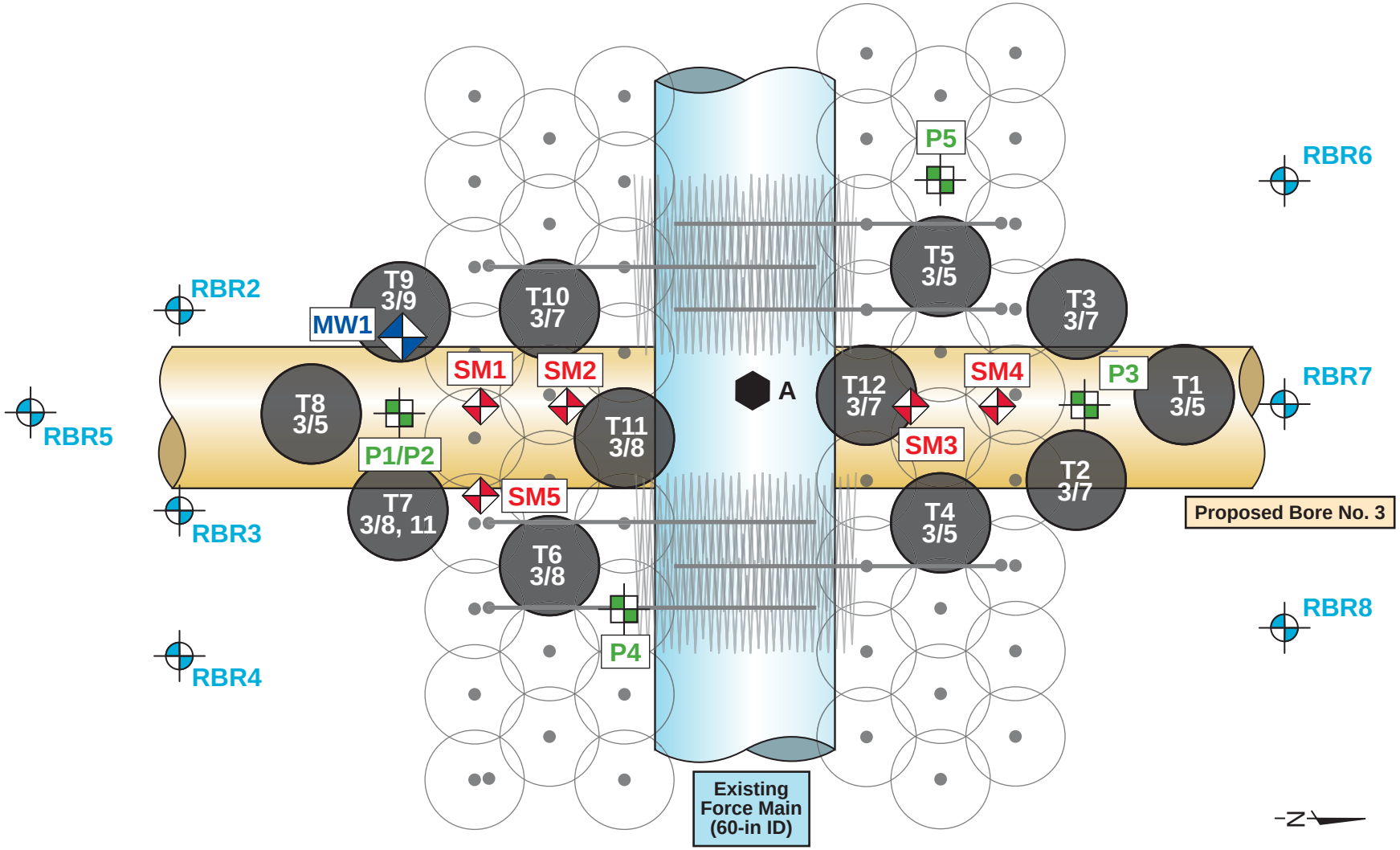


FIG_214: Jet-Grouting Test Section: Sequence of Installation

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-224)\FIG_214.ai

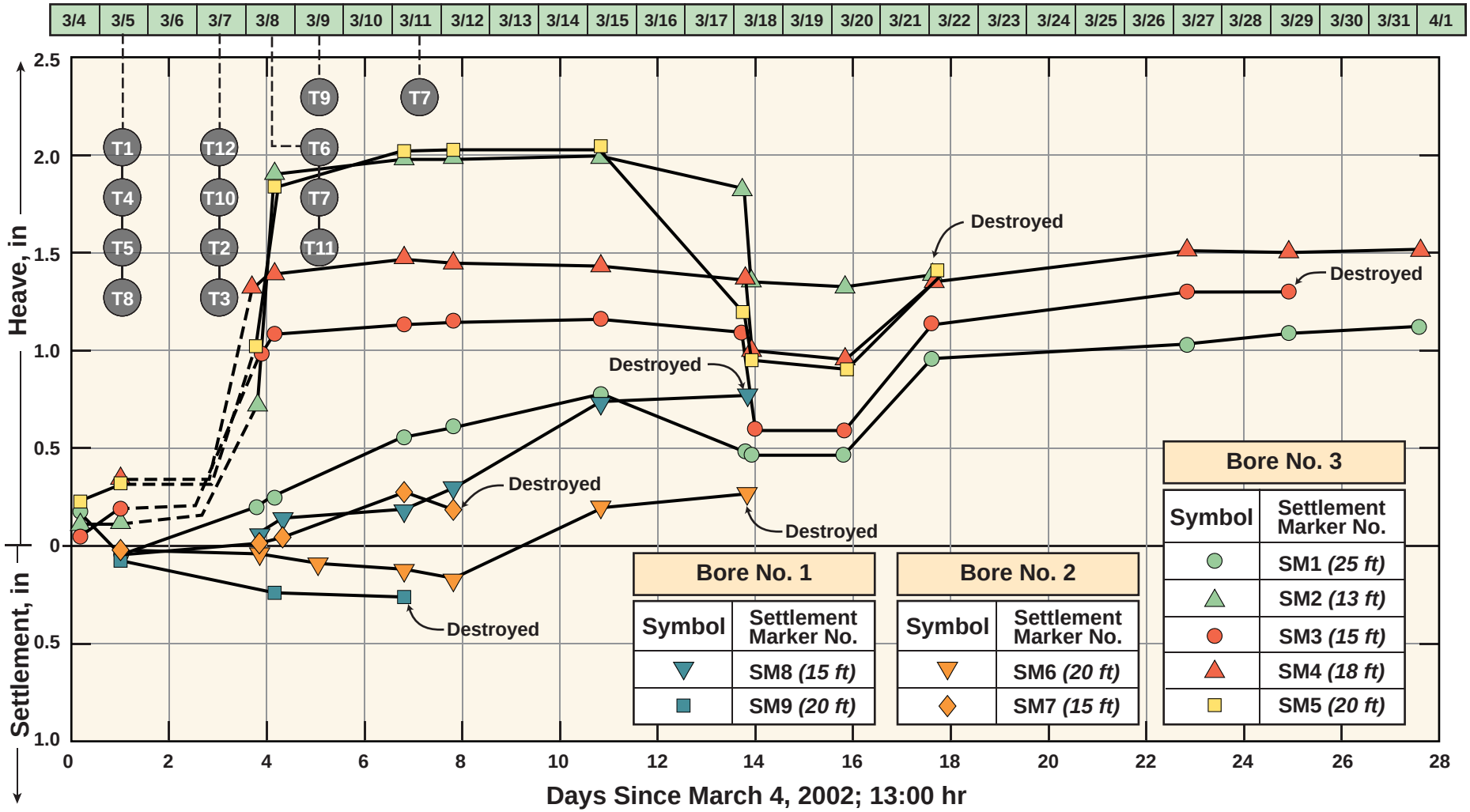


FIG_215: Subsurface Heave Caused by Jet-Grouting in Test Section: Effects of 12 Columns

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-224)\FIG_215

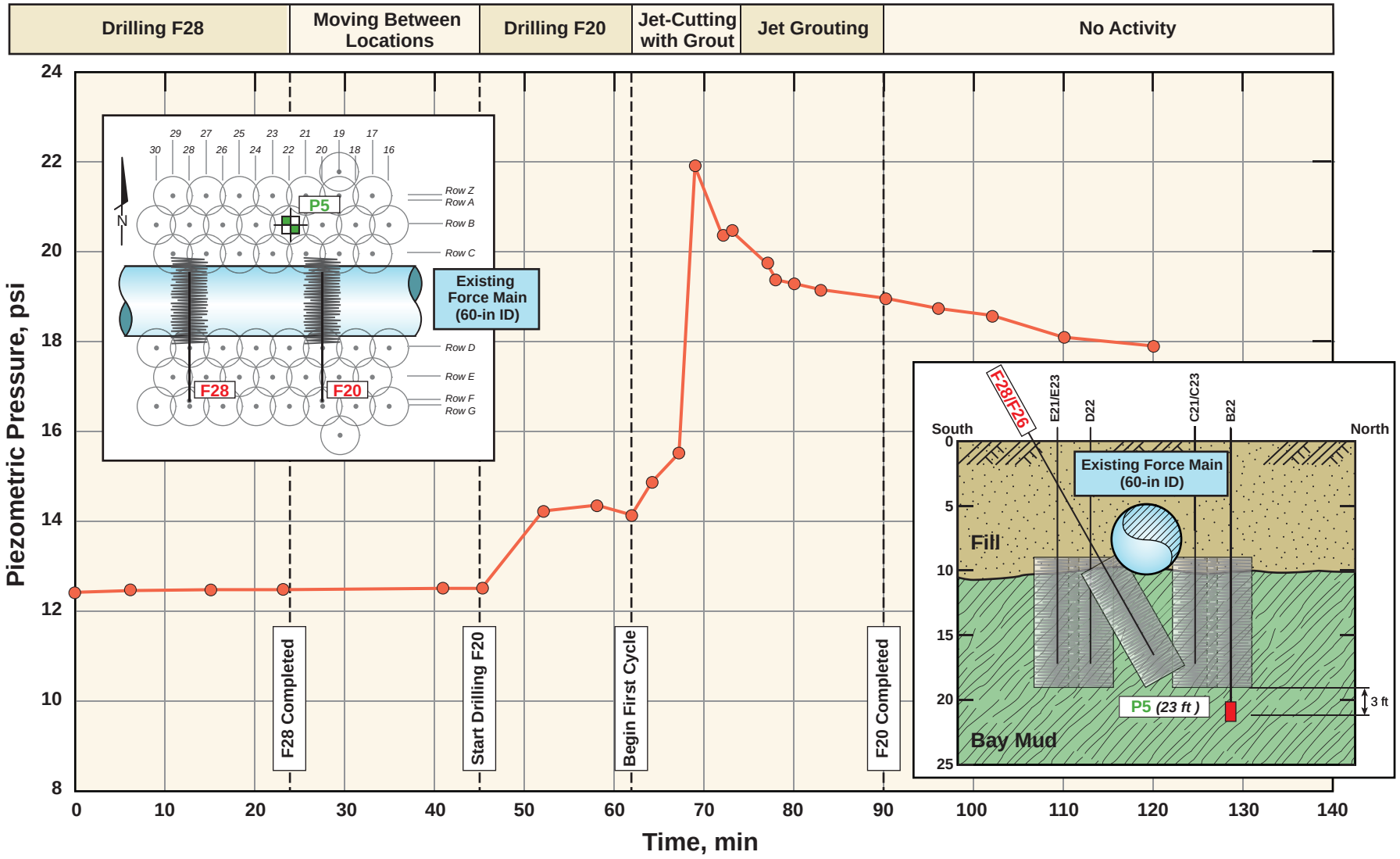


FIG_216: Excess Pore Pressures Caused by Jet -Grouting: Effect of Single Column

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-224)\FIG_216

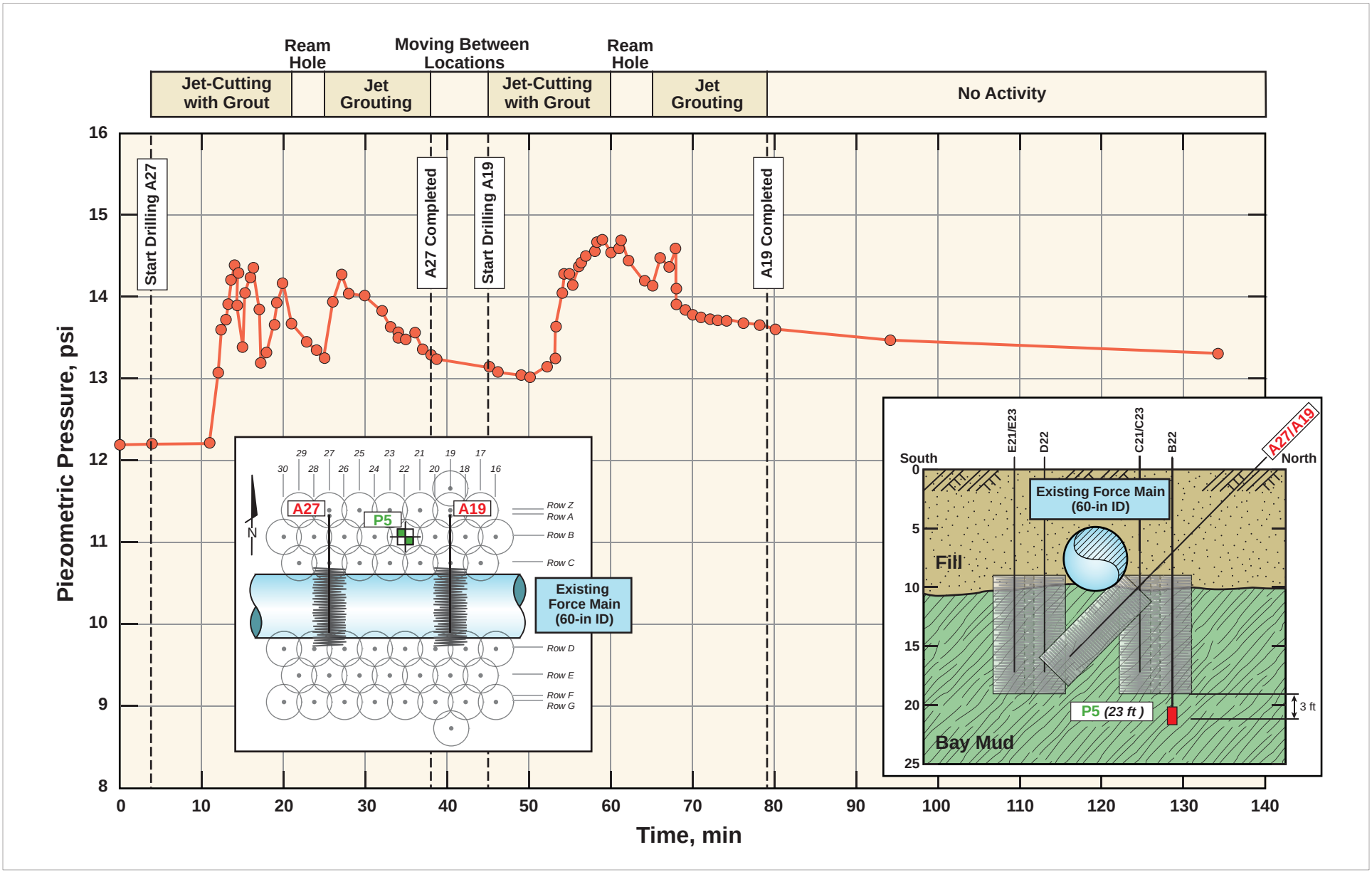


FIG_217: Excess Pore Pressures Caused by Jet-Grouting: Effects of Distant Columns

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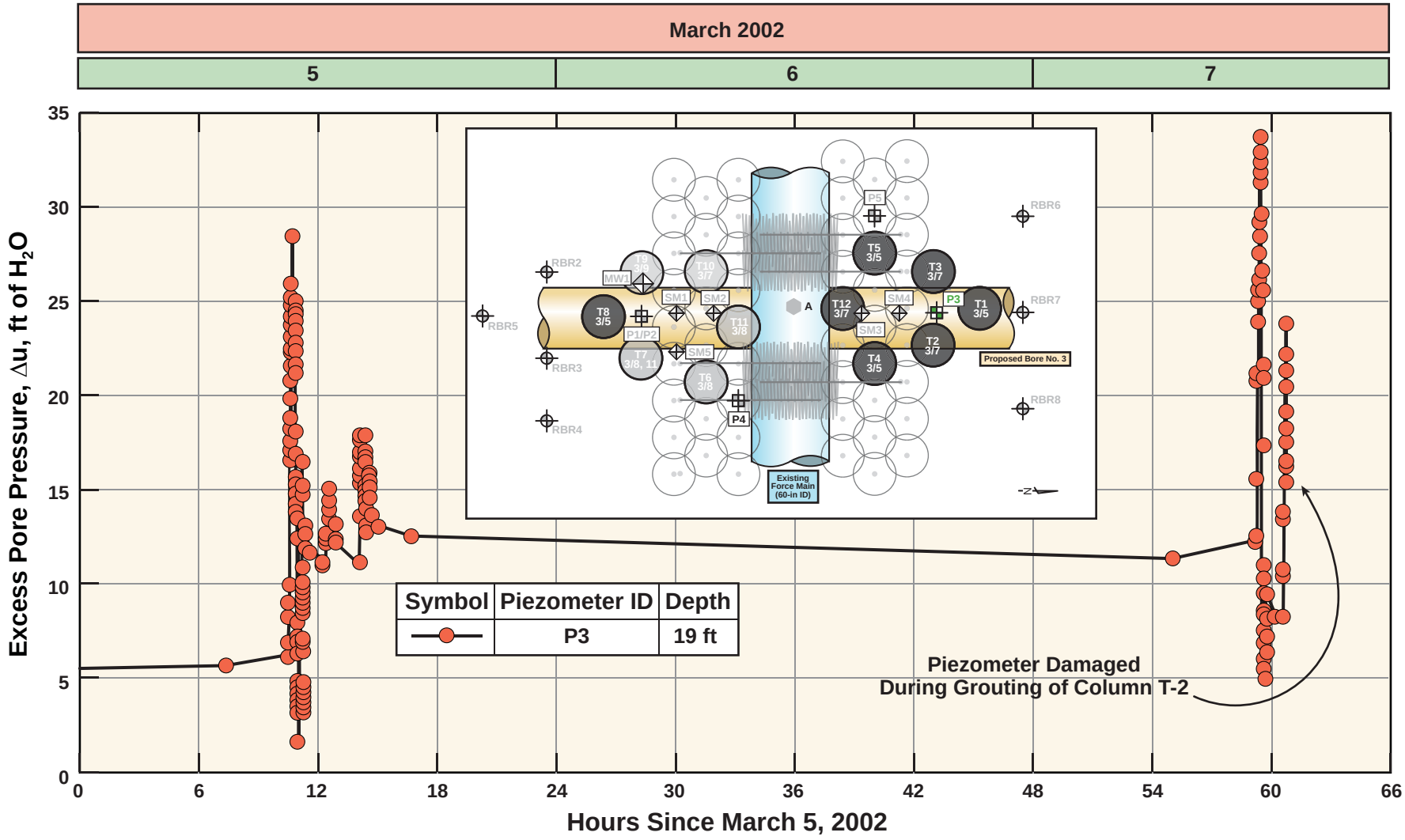

FIG_218: Excess Pore Pressures During Production Jet-Grouting

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-224)\FIG_28

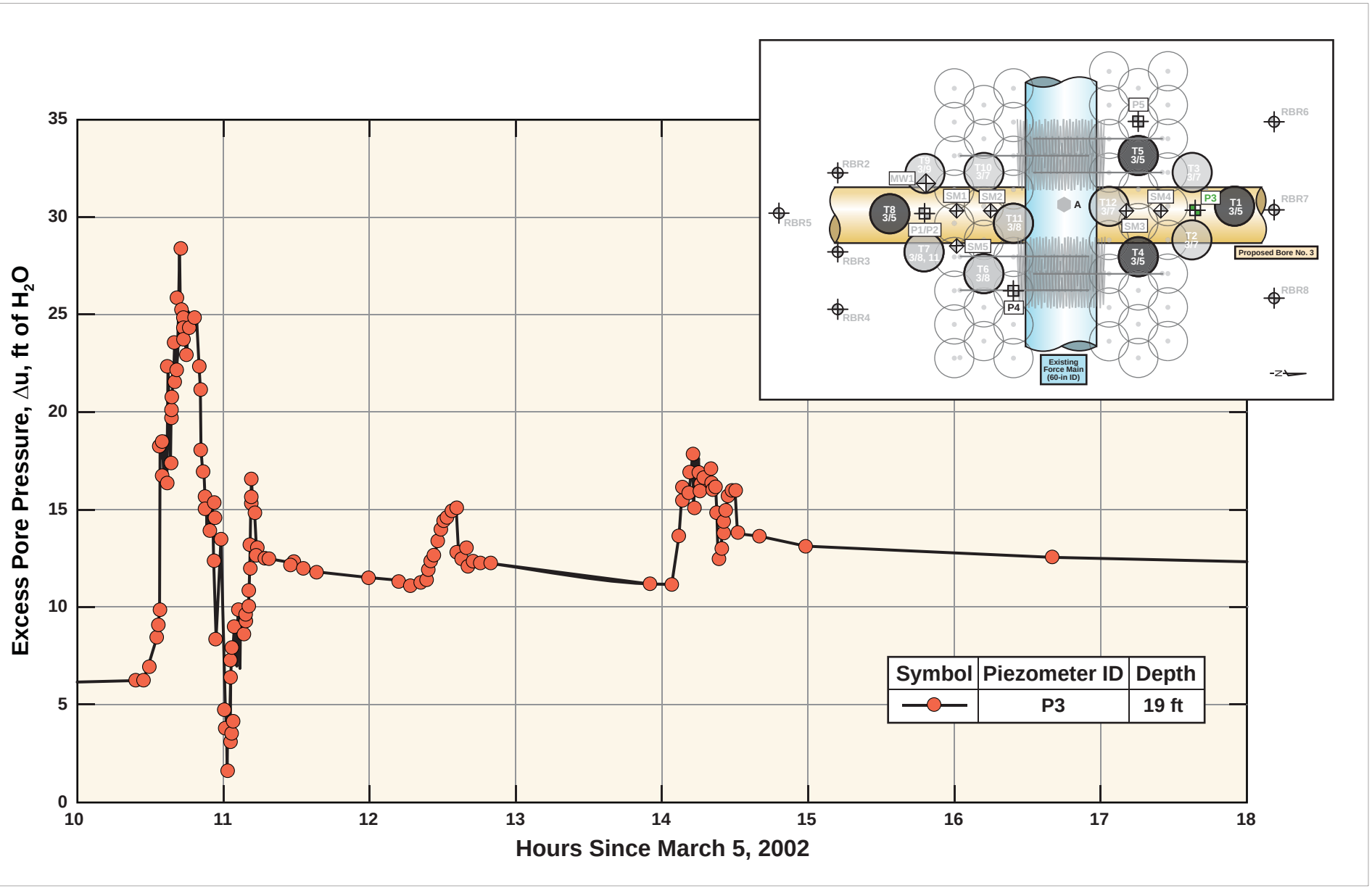

FIG_219: Excess Pore Pressures During Production Jet-Grouting

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-224)\FIG_219

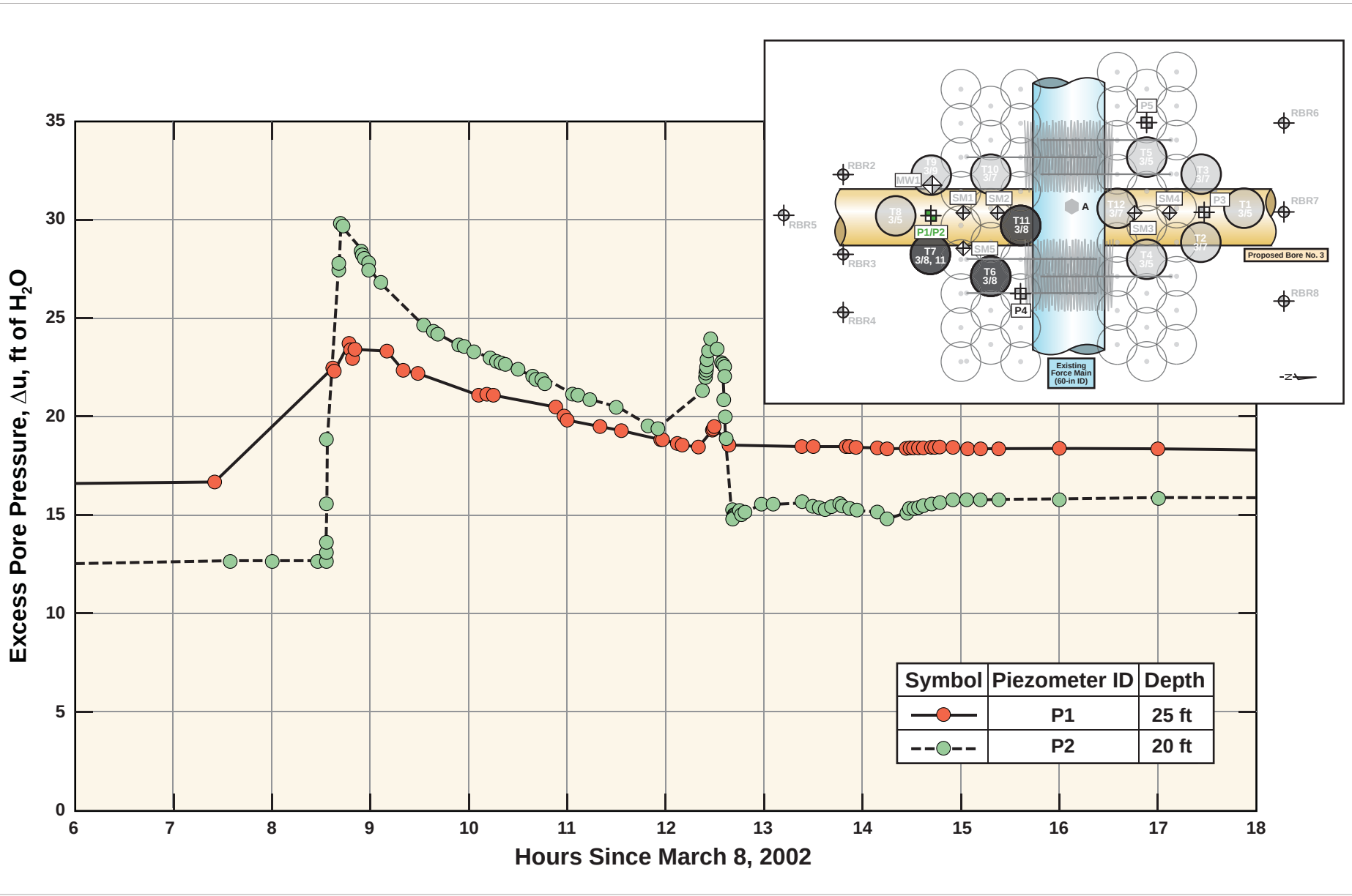

FIG_220: Excess Pore Pressures During Production Jet-Grouting

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-224)\FIG_220

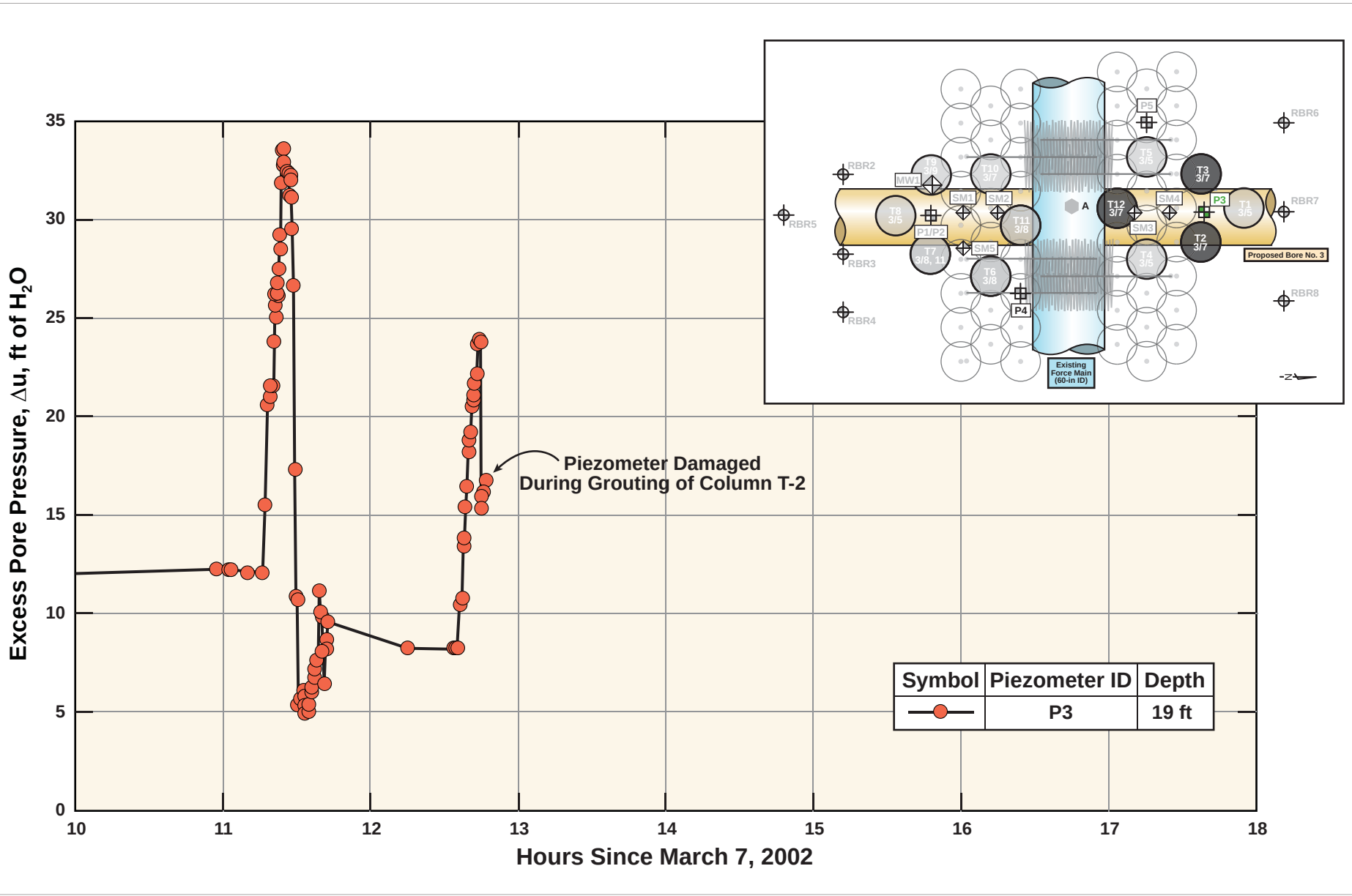

FIG_221: Excess Pore Pressure Head Versus Time

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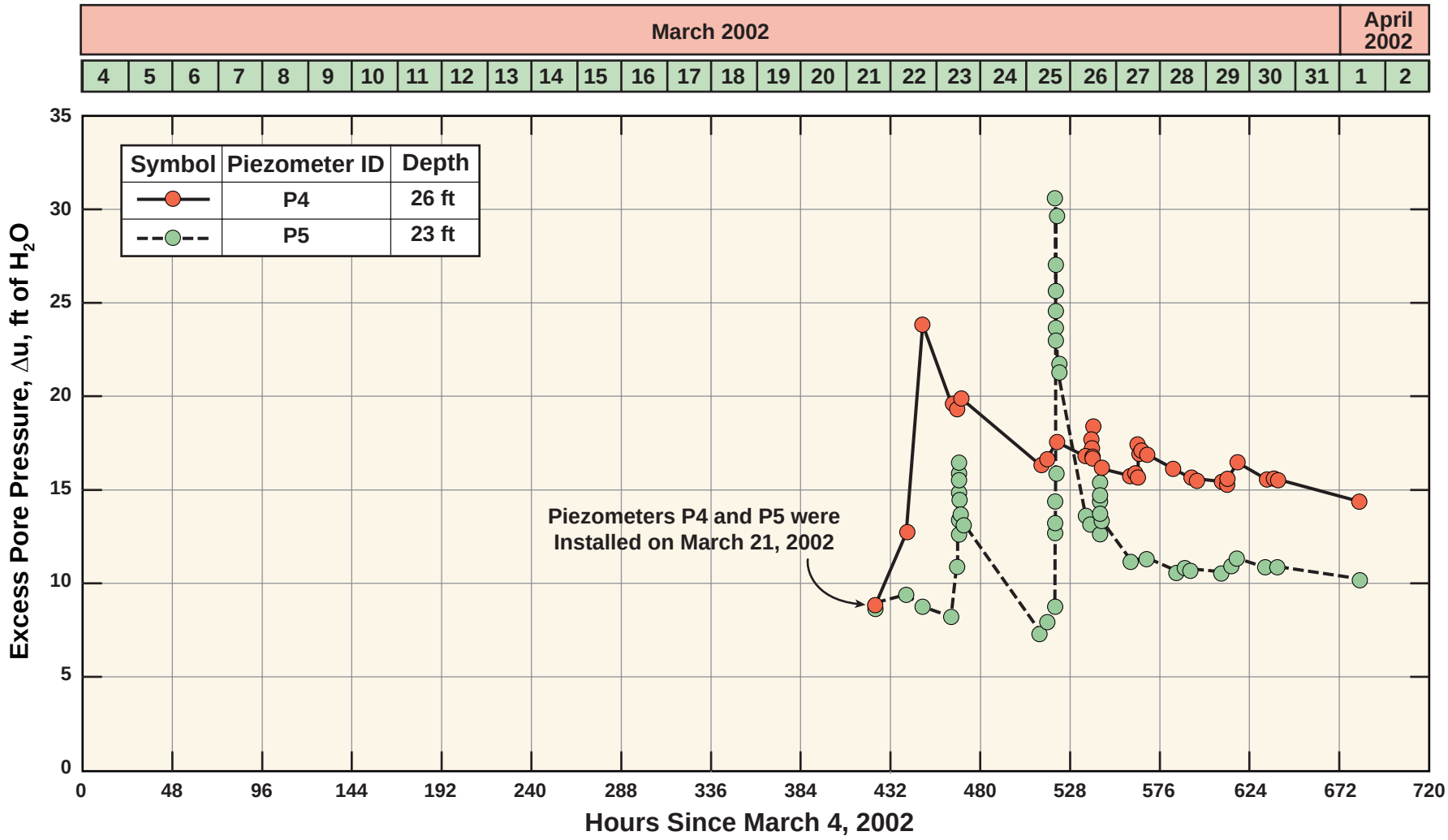

FIG_222: Excess Pore Pressures During Production Jet-Grouting

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-224)\FIG_222

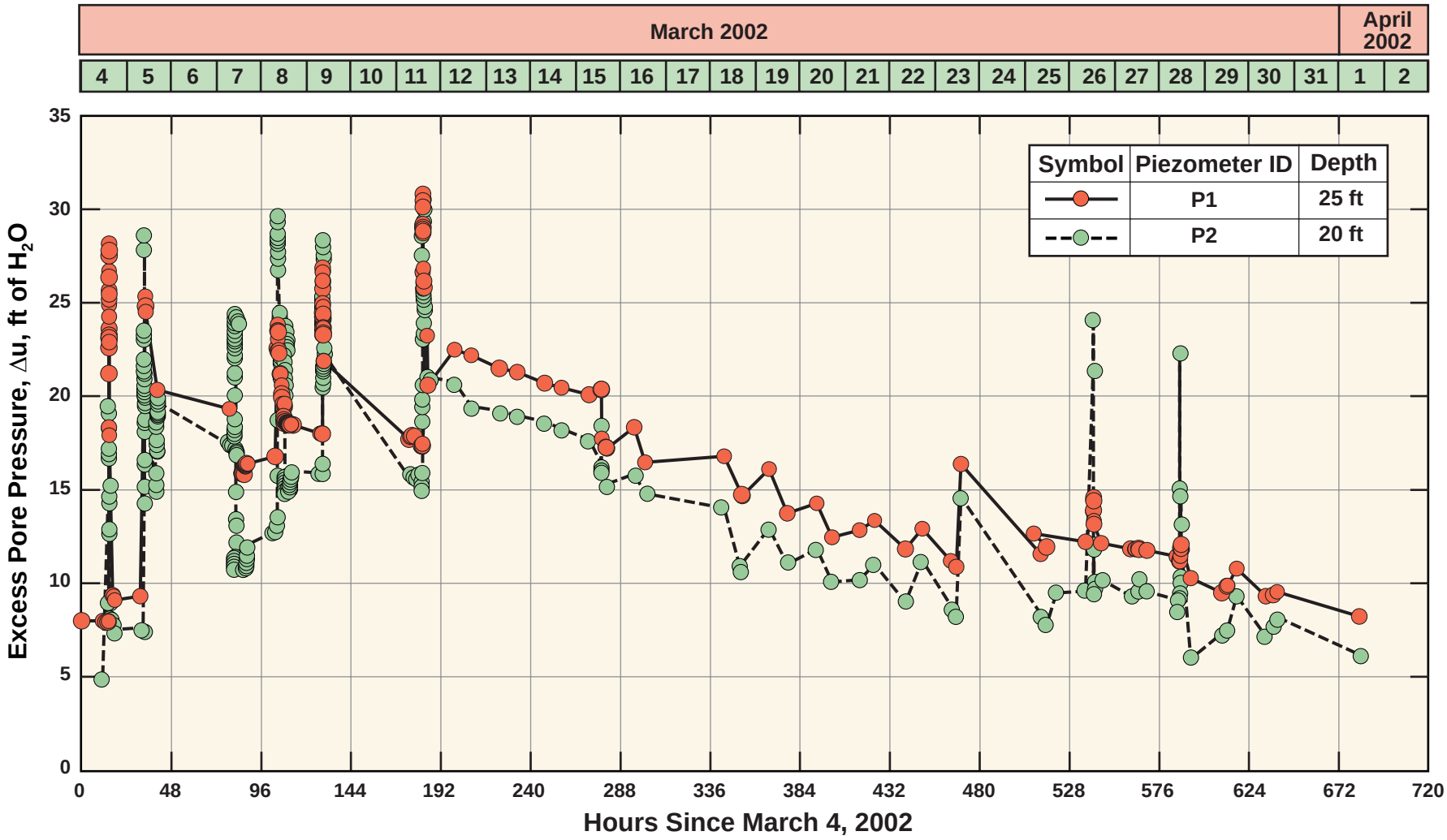

FIG_223: Cumulative Effects with Time: Production Jet-Grouting

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-224)\FIG_223

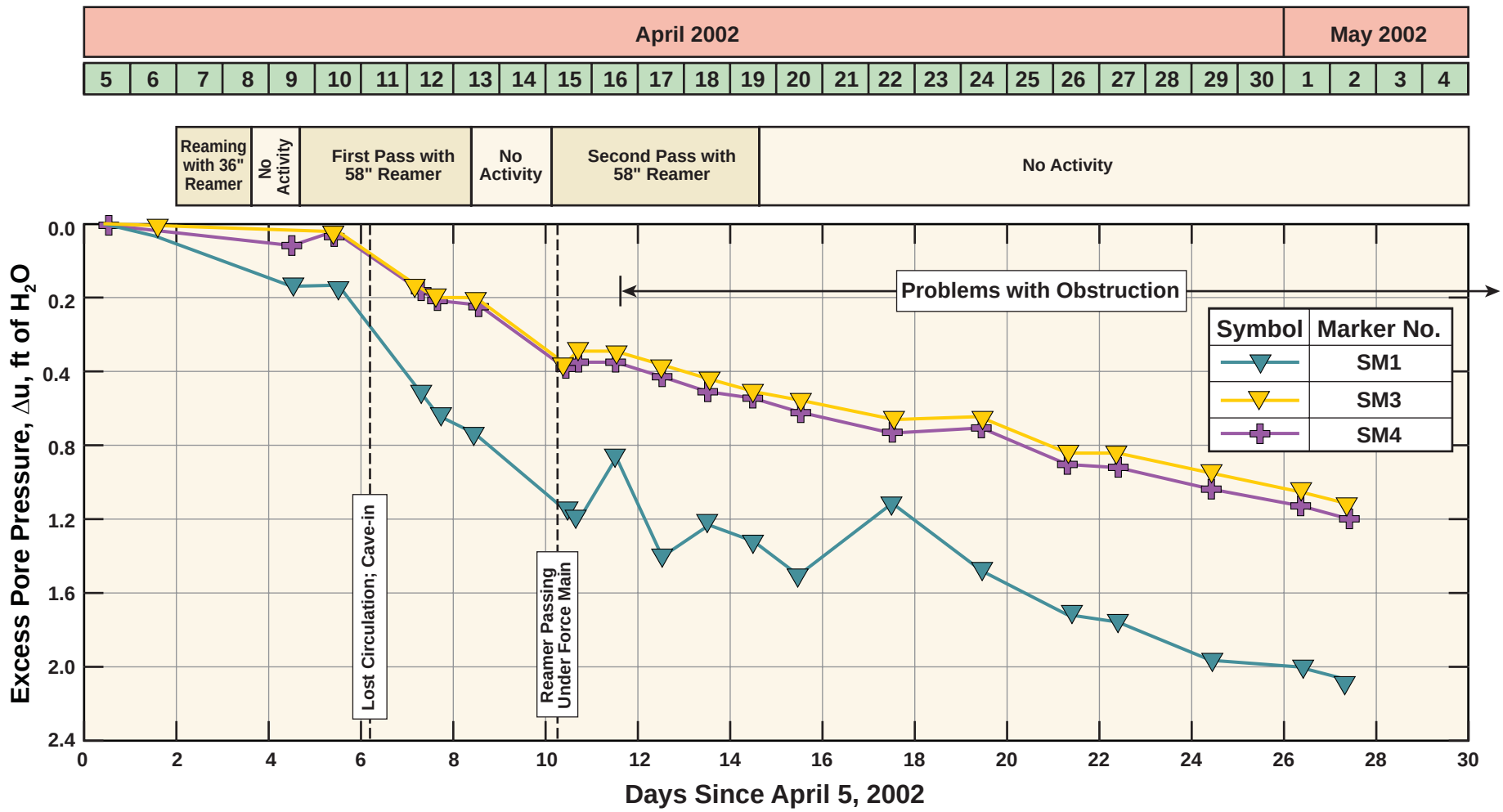

FIG_224: Settlements During Directional Drilling

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-224)\FIG_224

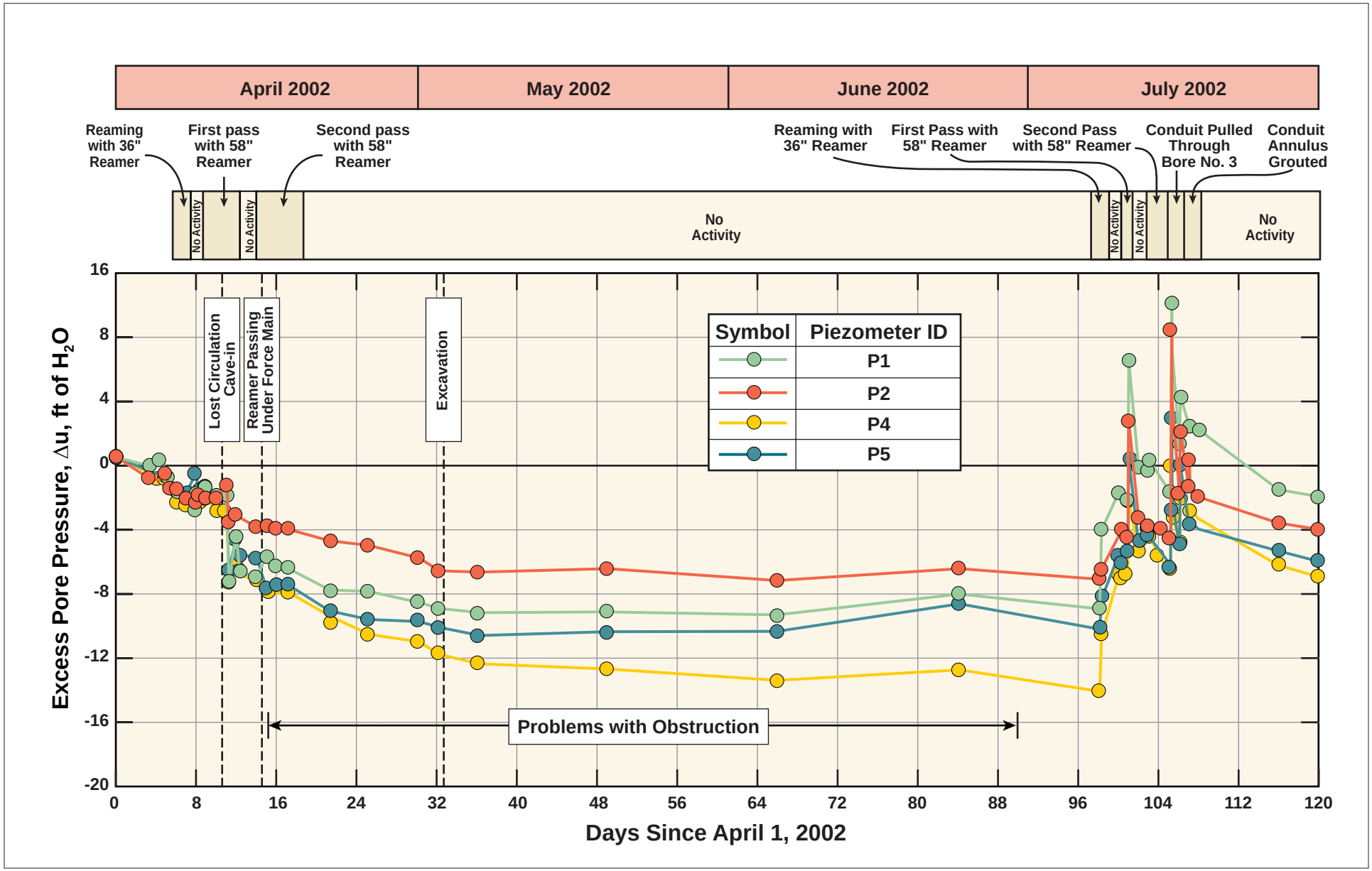

FIG_224A: TITLE

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-224)\FIG_224A

FIG_225: Directional Drilling Islais Creek Duct Banks/Force Main

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-224)\FIG_224A

FIG_226: Jet Grouting: Islais Creek Force Main

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-224)\FIG_226

FIG_227: Instrumentation Monitors Islais Creek Force Main

W:\Infrastructure\Geotech\UC Berkeley 2008 Seminar\Final Figures\10 JET GROUTING (206-224)\FIG_227