

**CENTRAL MAINE POWER COMPANY
RESPONSE TO ORAL DATA REQUEST NO. 3
DOCKET No. 2008-255**

December 17, 2008

ODR-03-40

Q. Regarding Dr. Bailey's 10-15-8 Report, provide the tables in color (both electronically and in hard copy), modified to represent new and existing ROW boundaries.

A. Tables are provided in Attachment 1.

Response Prepared and Submitted By:

William H. Bailey, Ph.D.
Principal Scientist and Office Director
Exponent

Attachment(s):

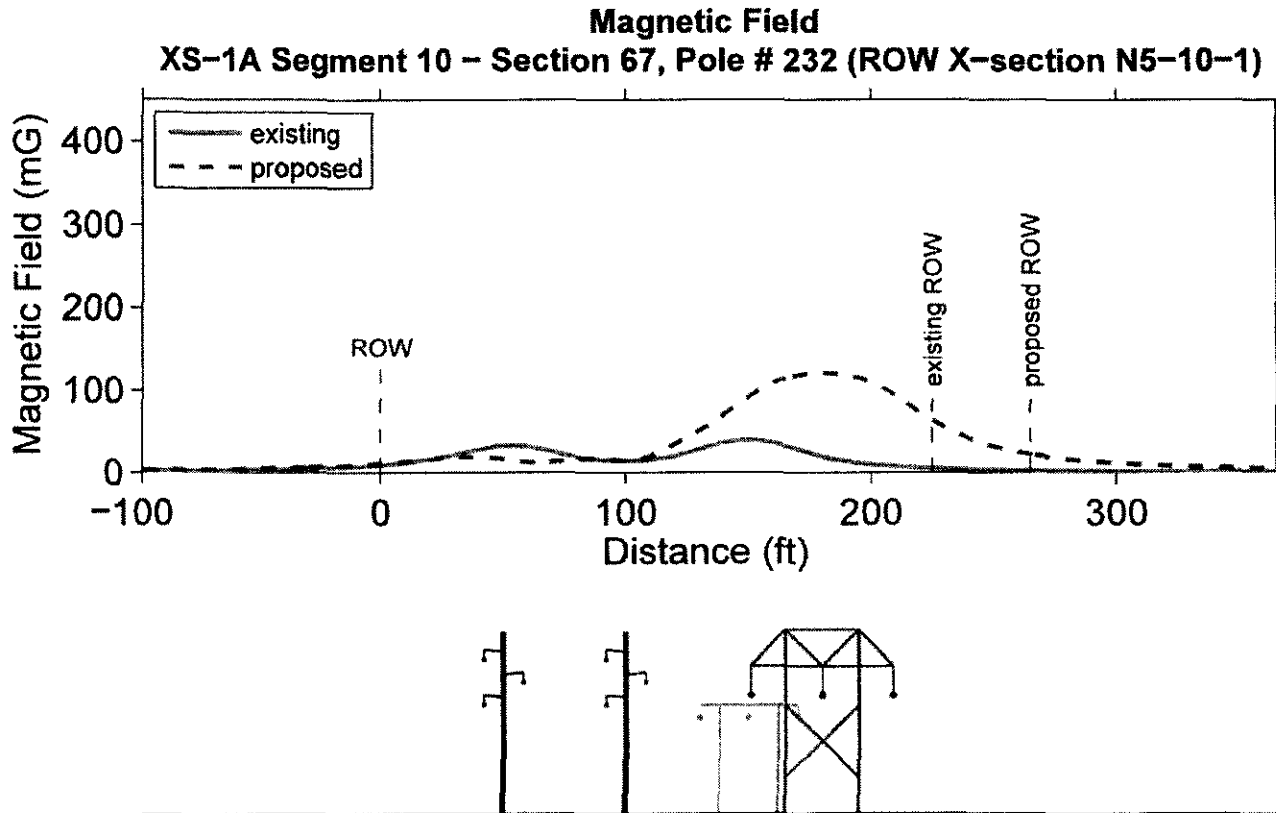
1. MPRP Average Load MF Profiles ALL

Maine Power Reliability Project

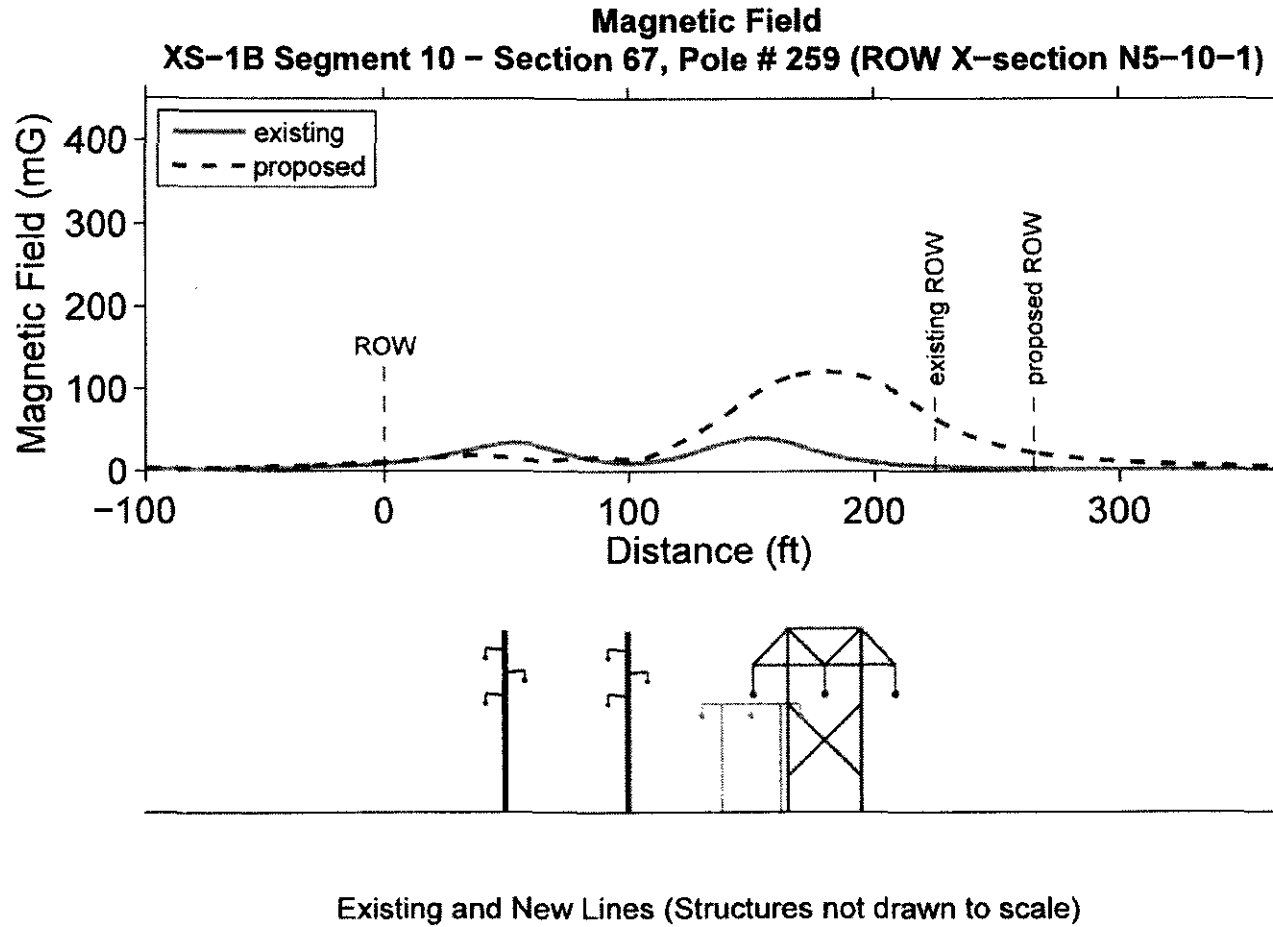
Average Load Magnetic Field Profiles including Segments 16 and 17

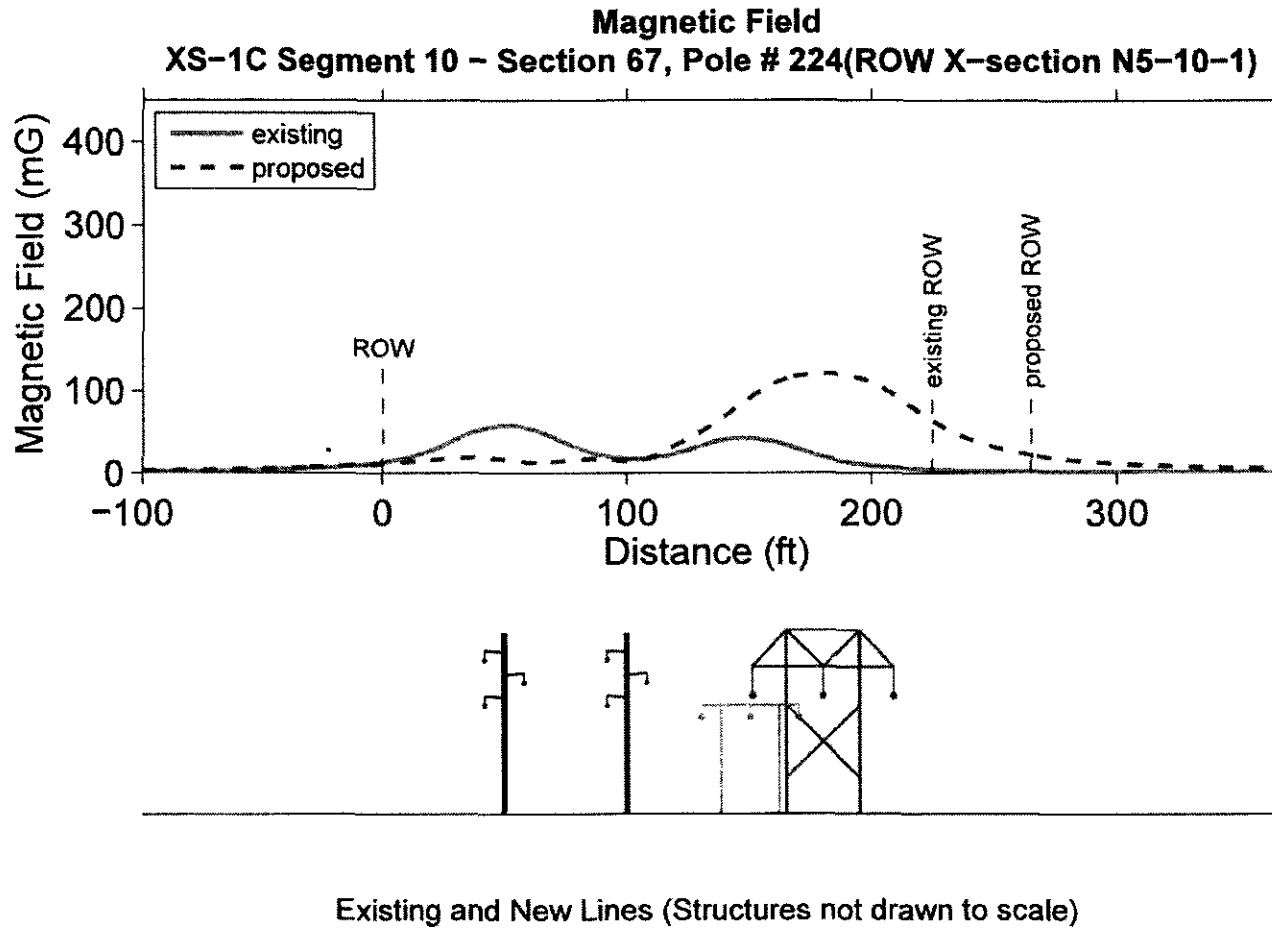
Prepared on December 16, 2008.

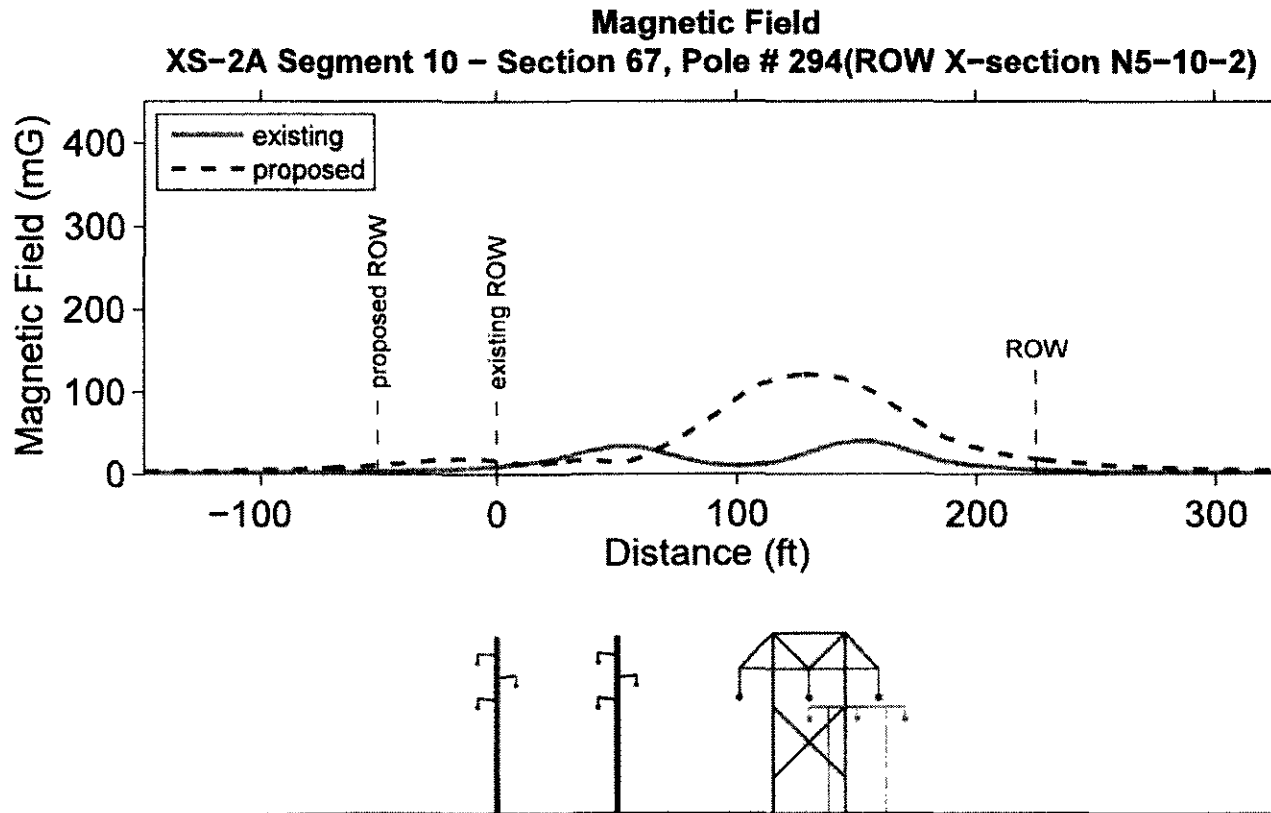
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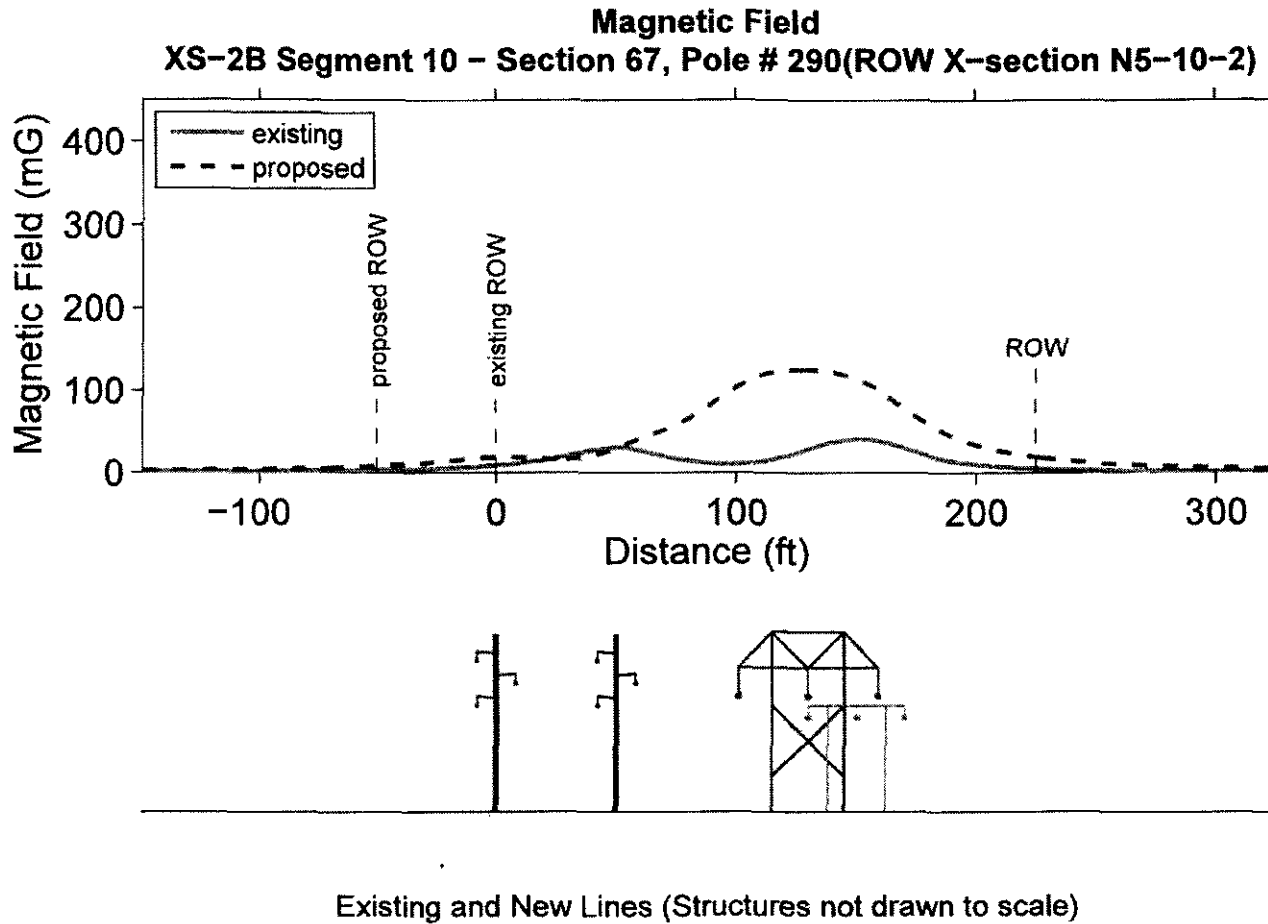
Existing and New Lines (Structures not drawn to scale)

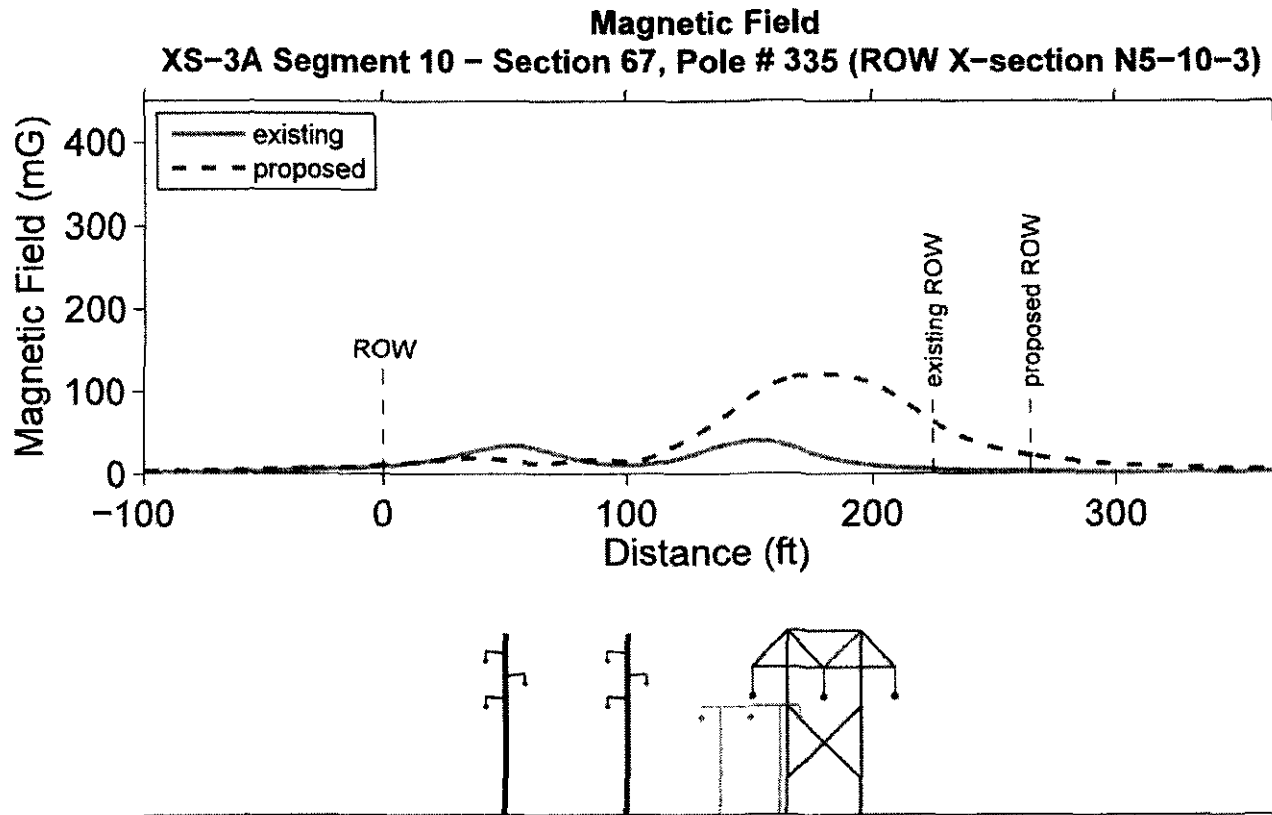




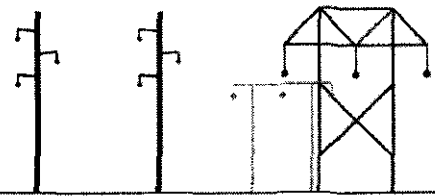


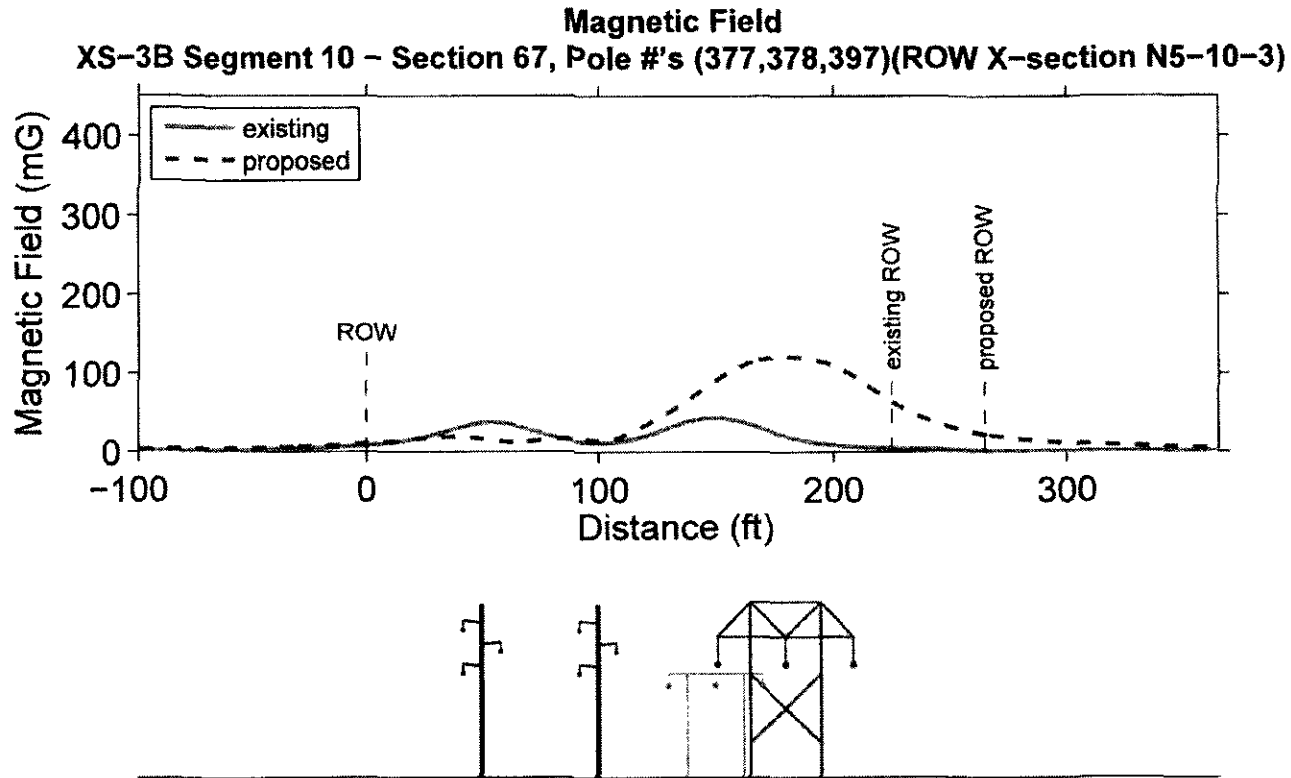
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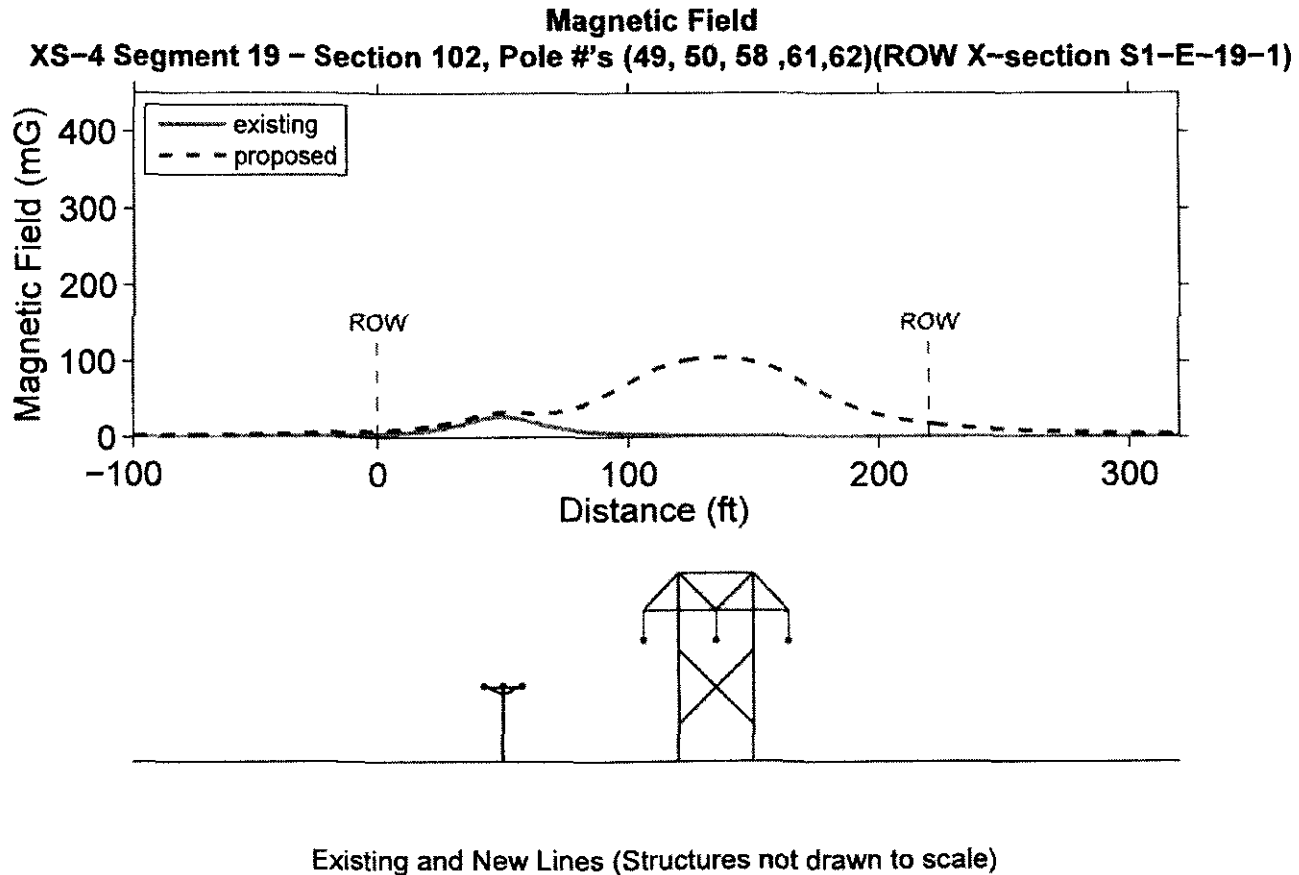


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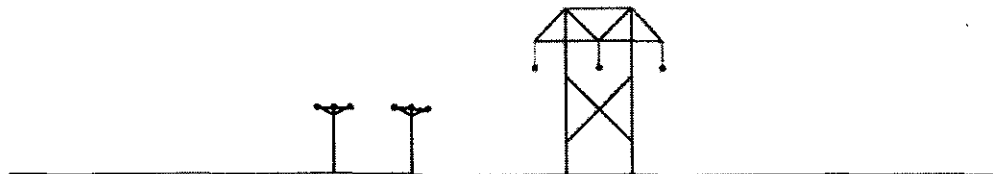
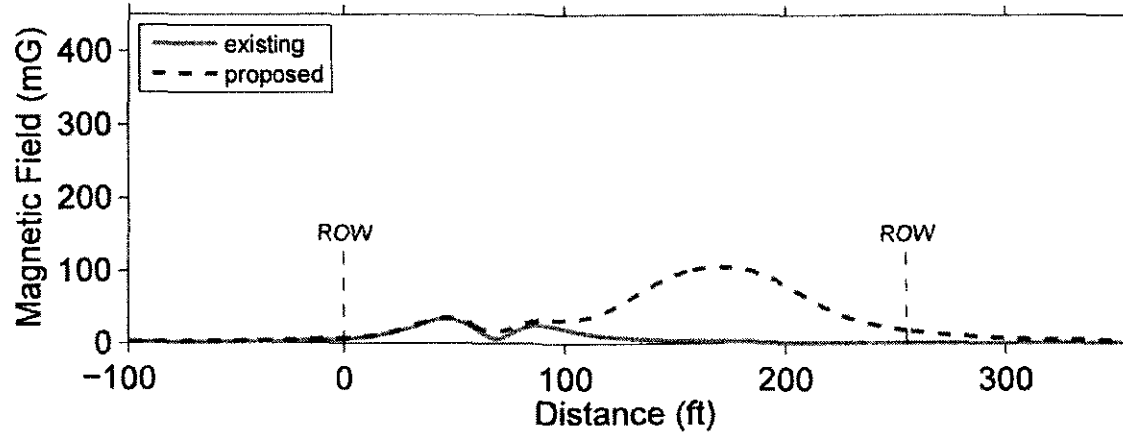




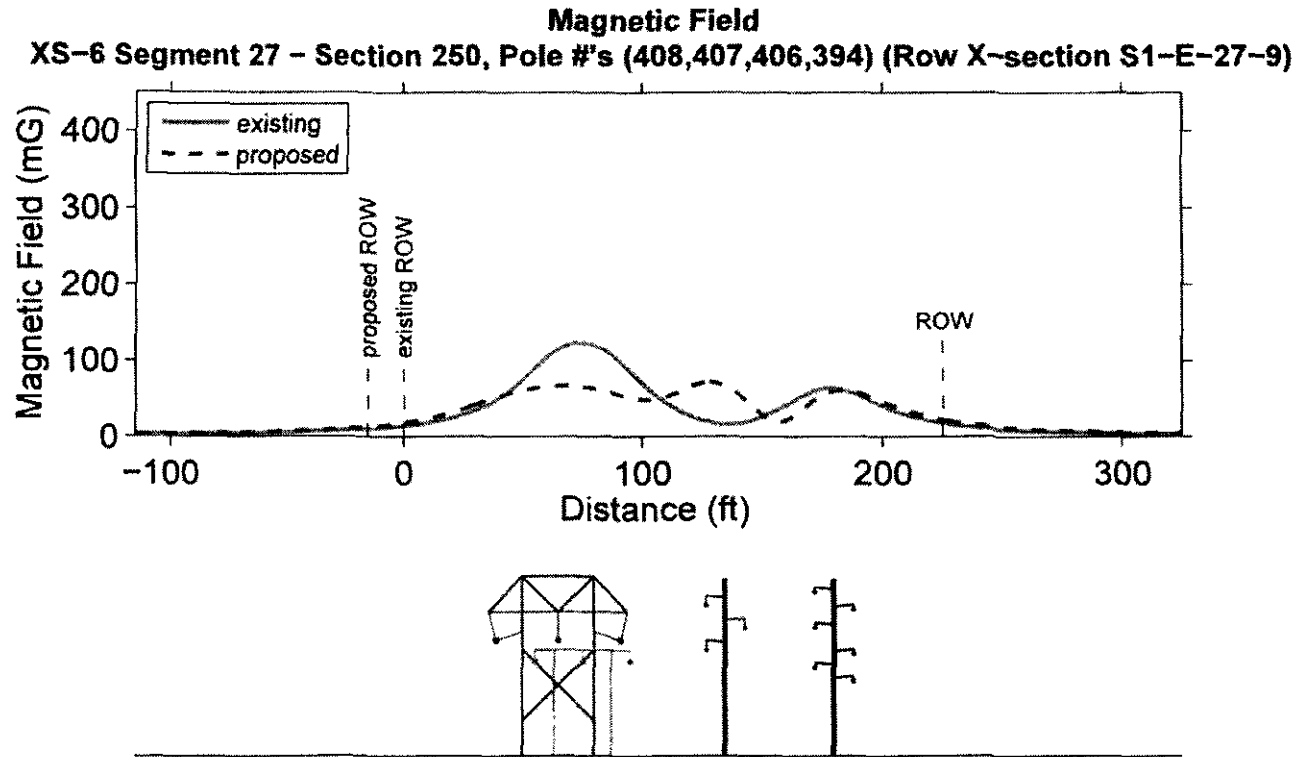
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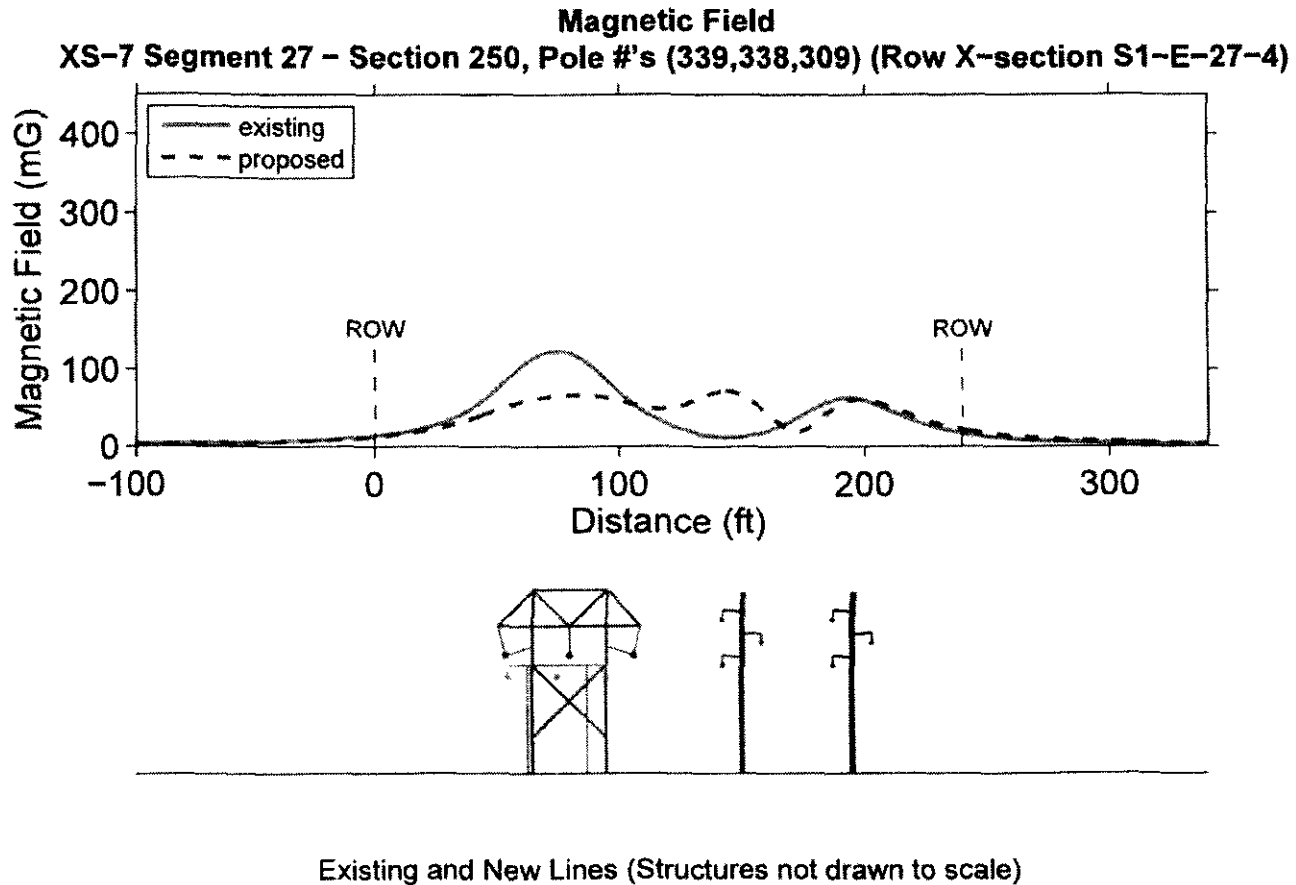
Magnetic Field
(S-5 Segment 19 – Section 102, Pole #'s (4,5,6,7,8,9,10,11,12,13,14,15)(ROW X-section S1-E-1

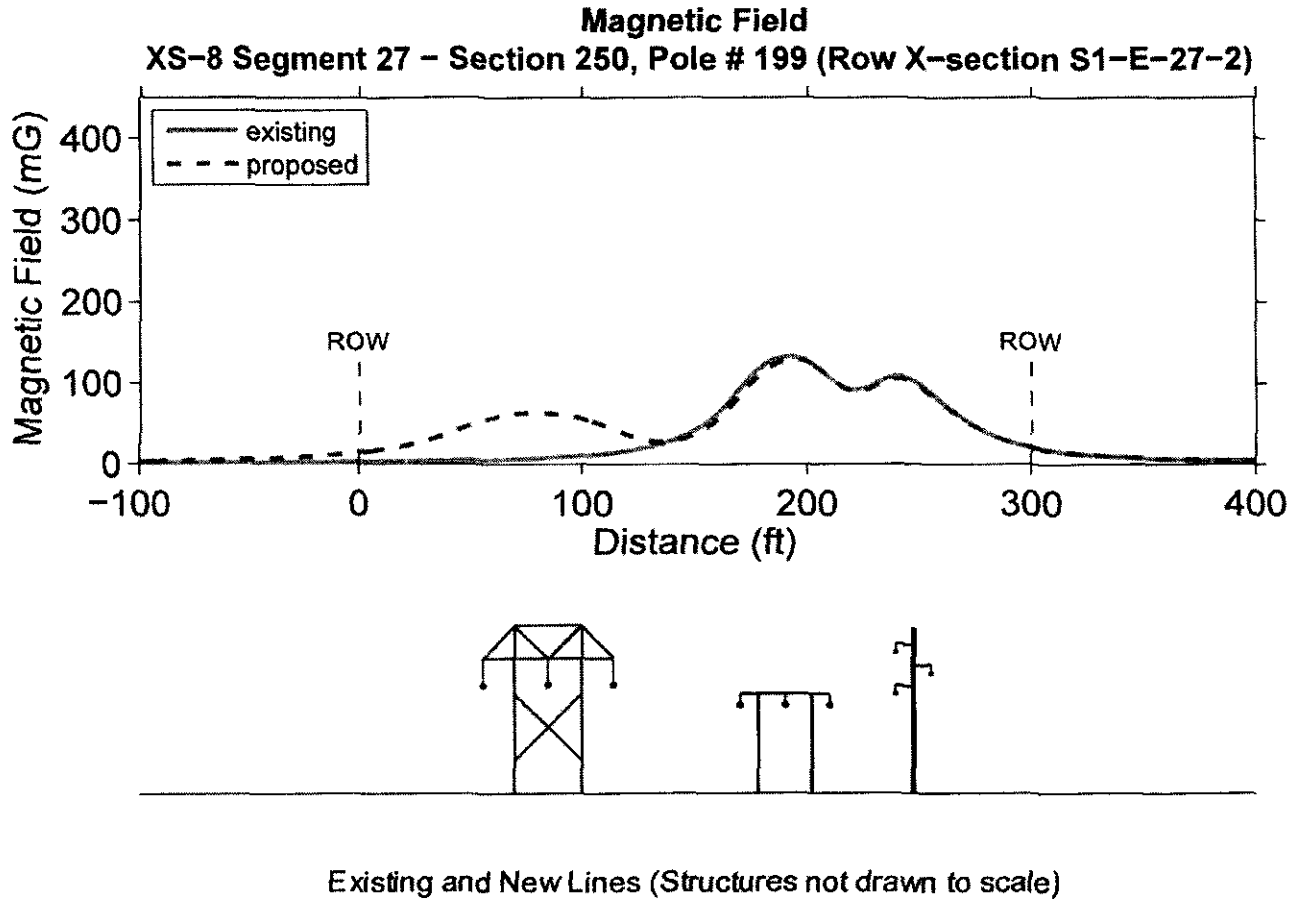


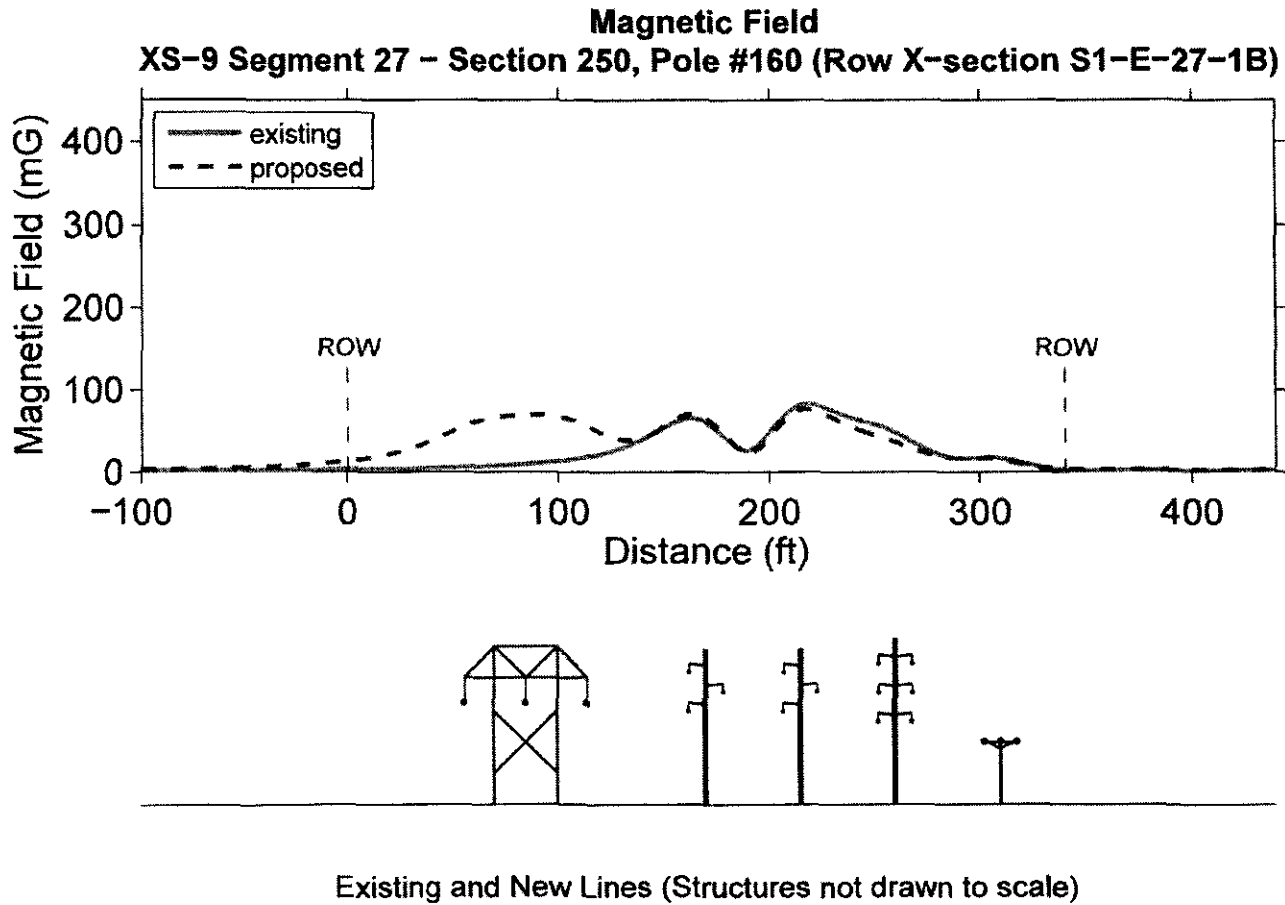
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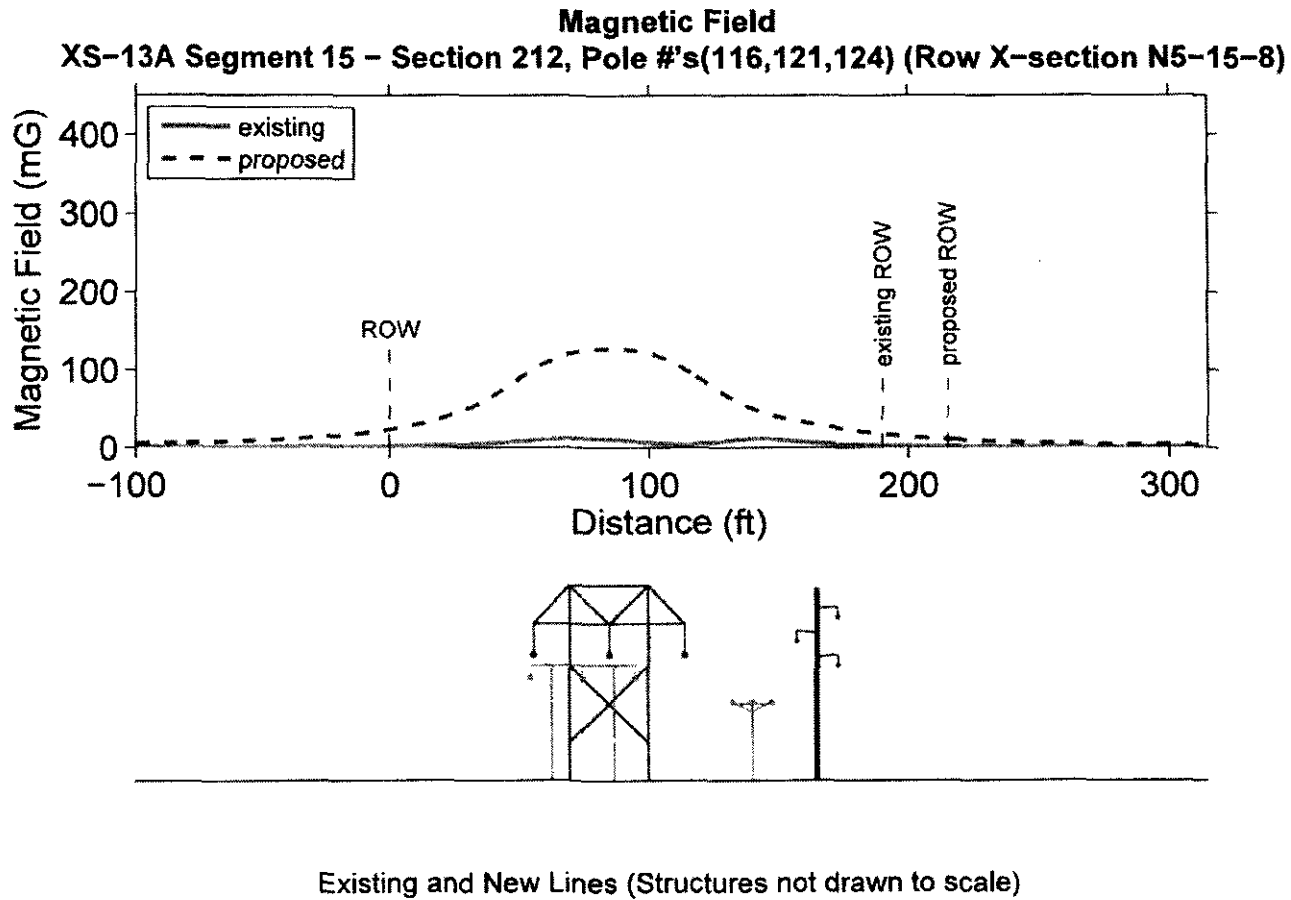


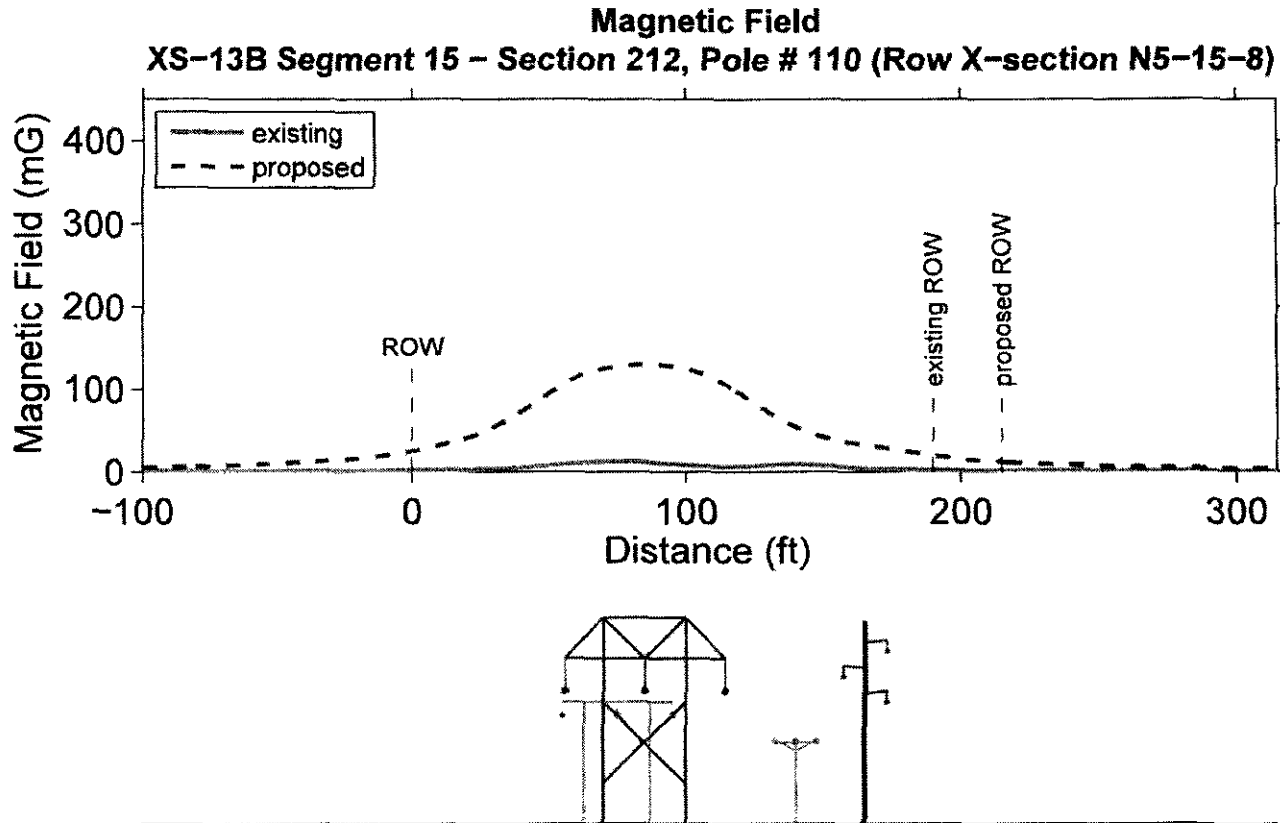
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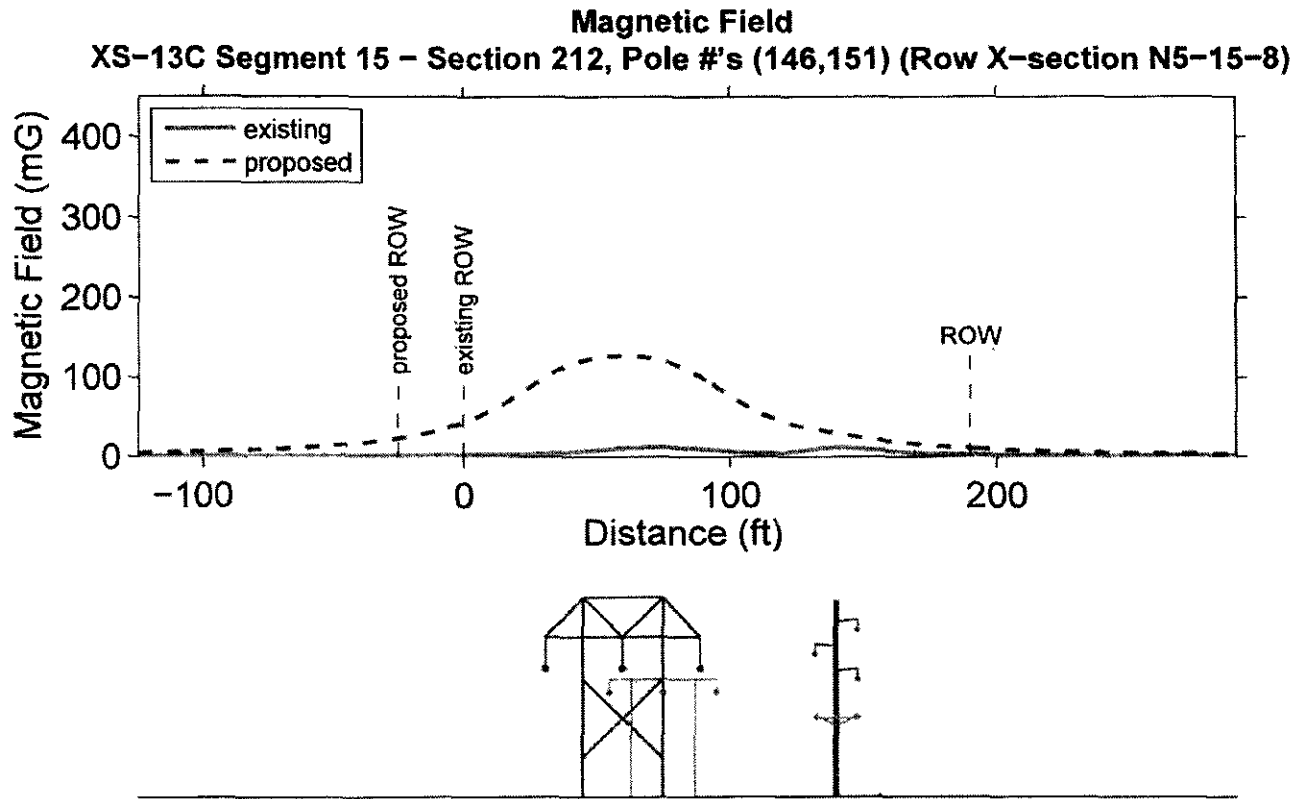




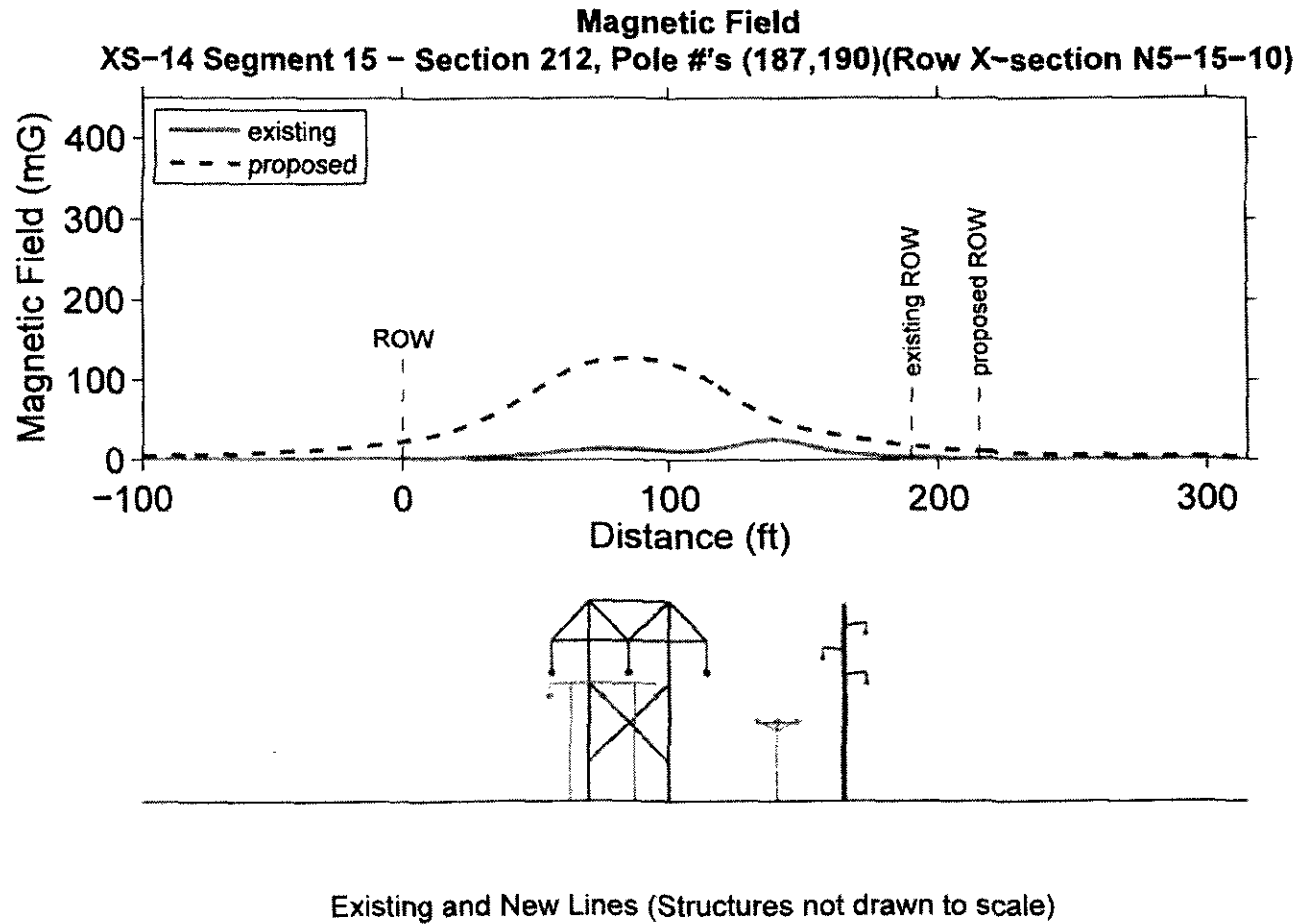


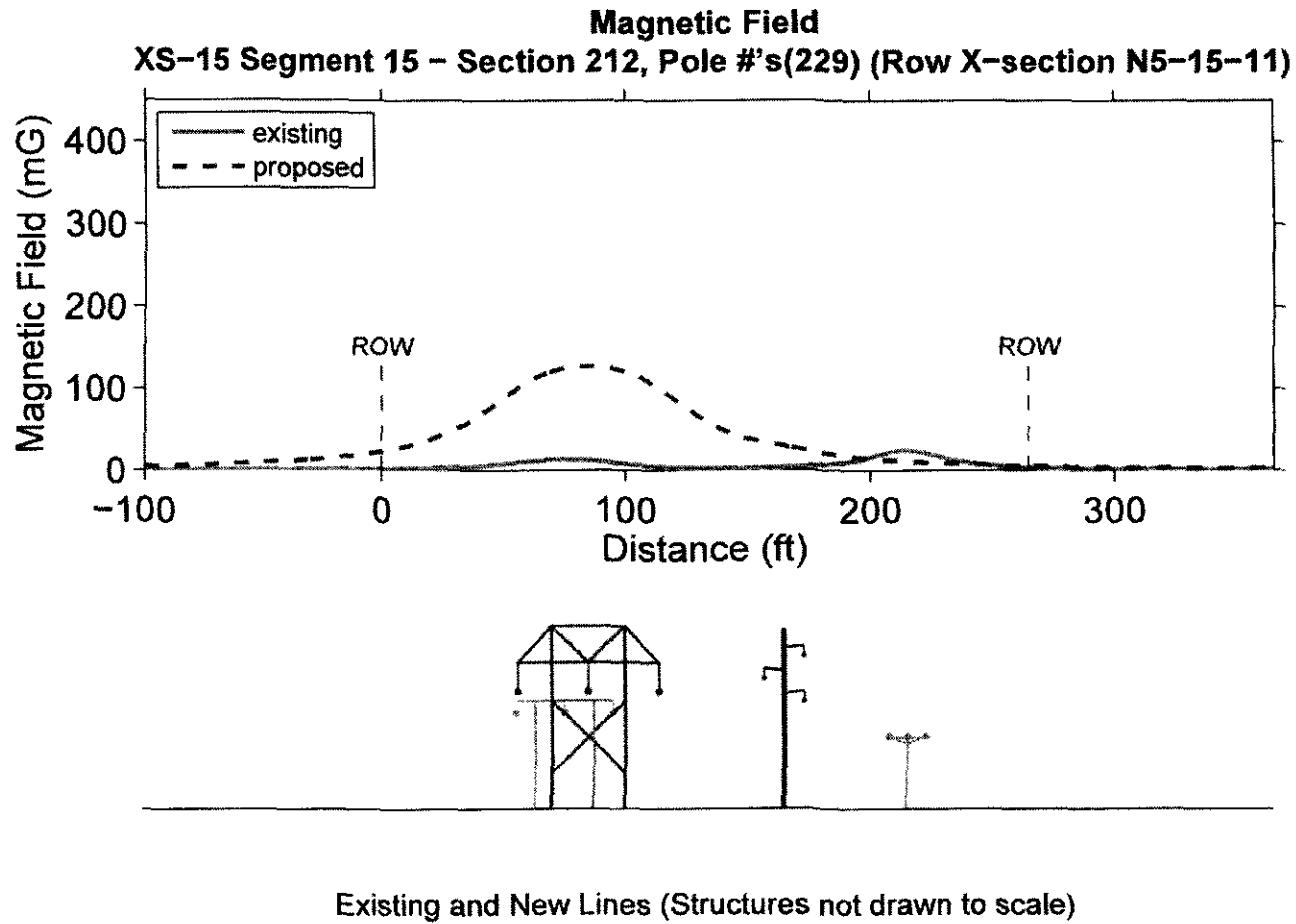


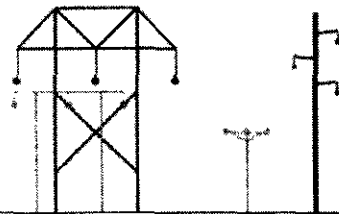
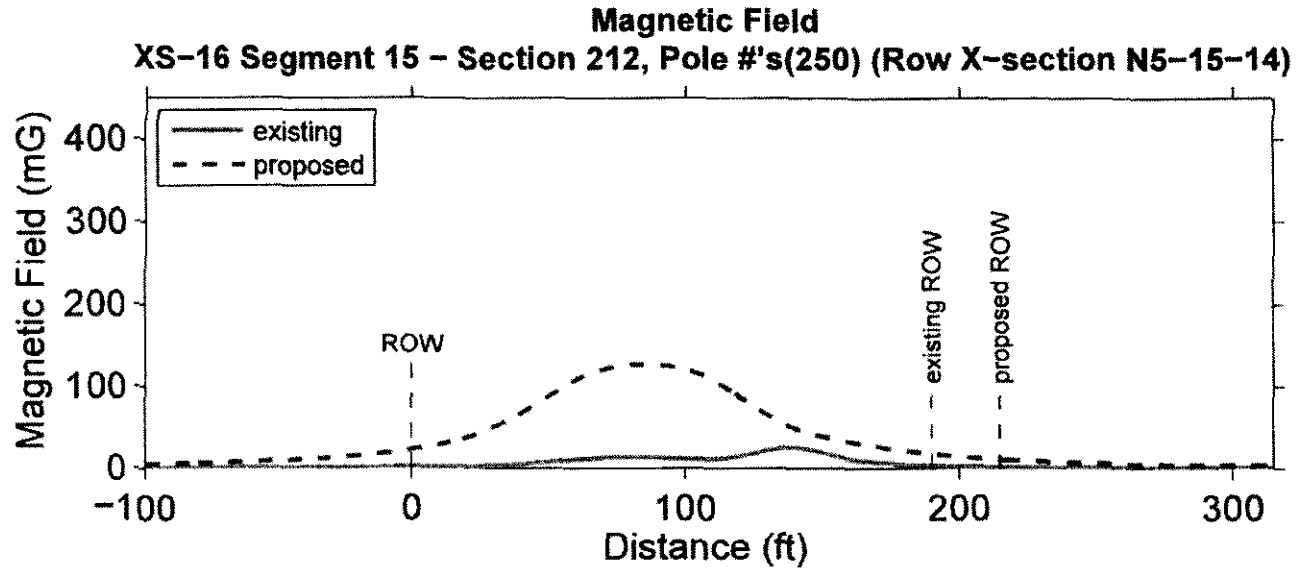




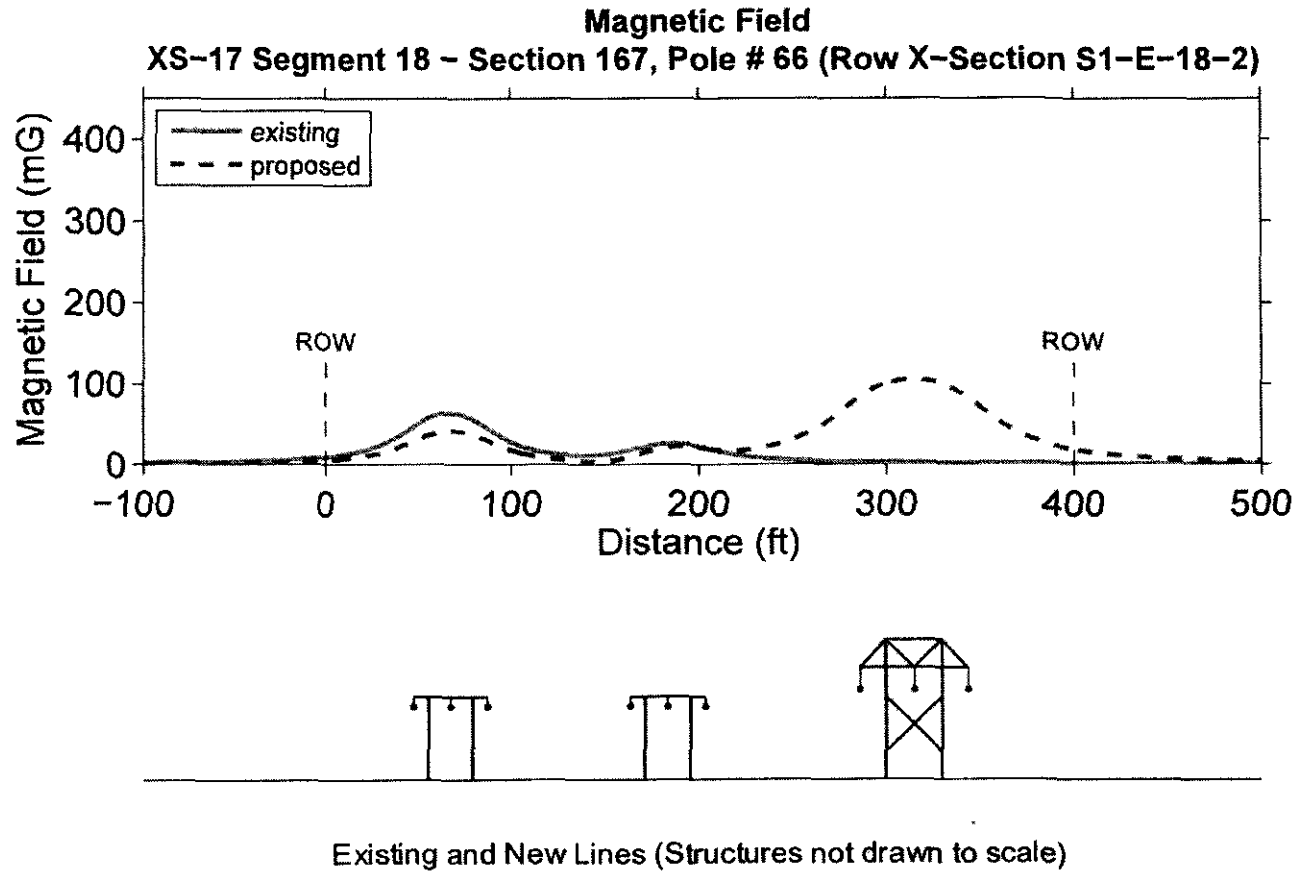
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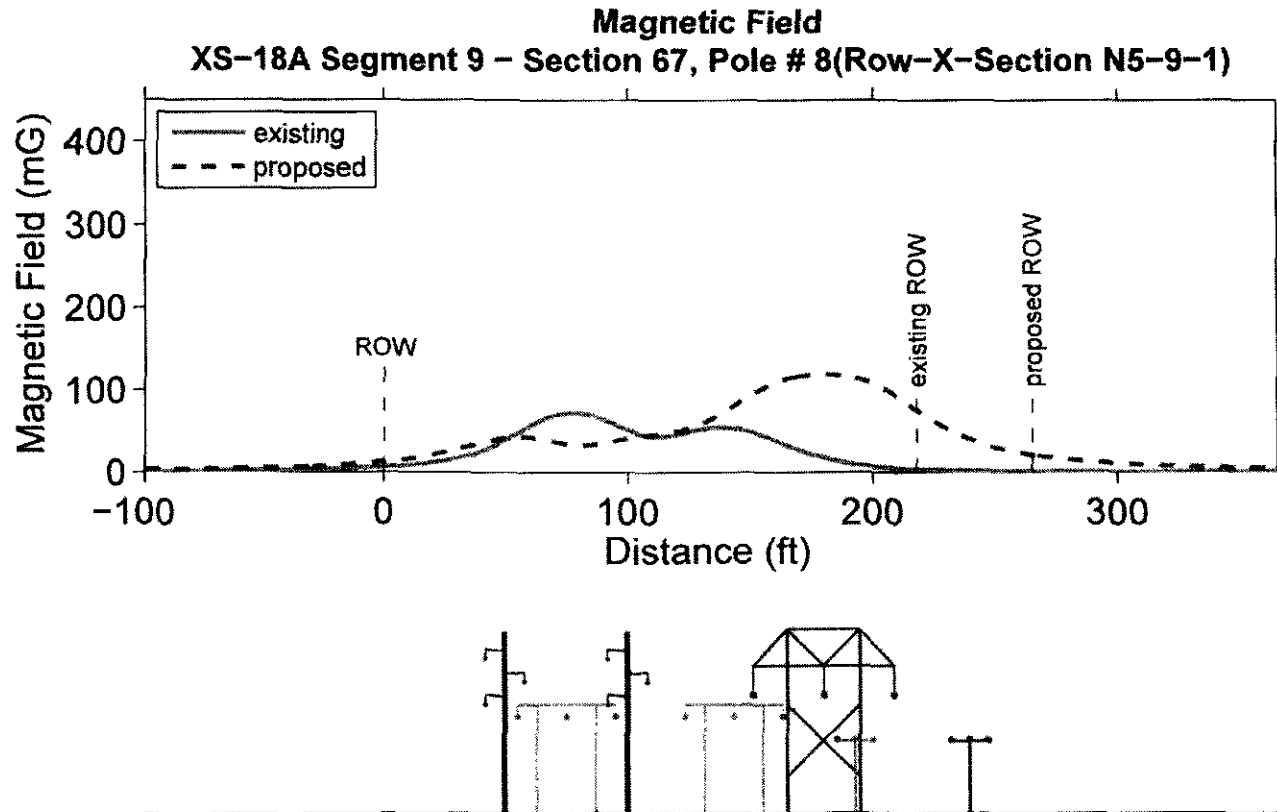




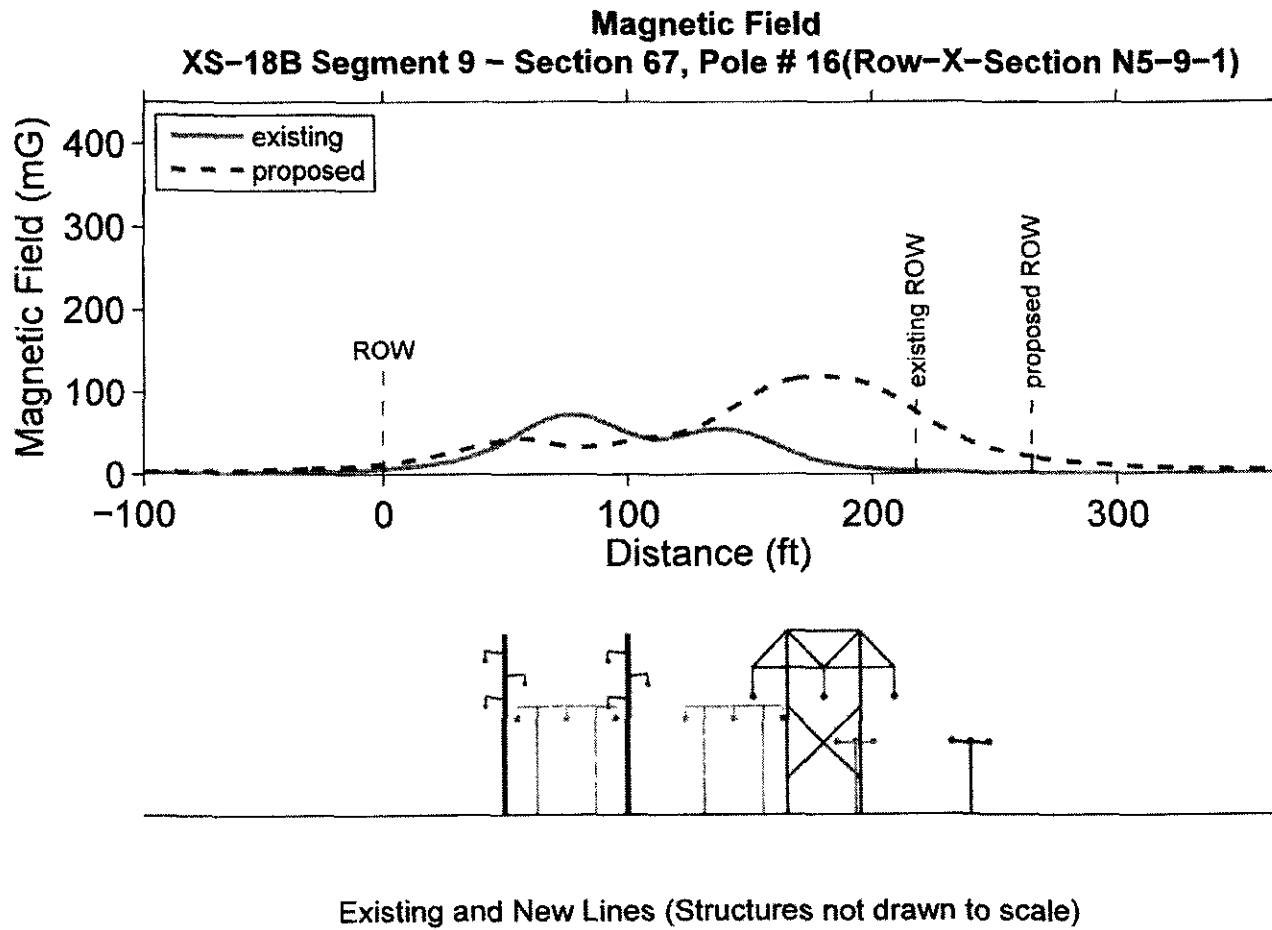


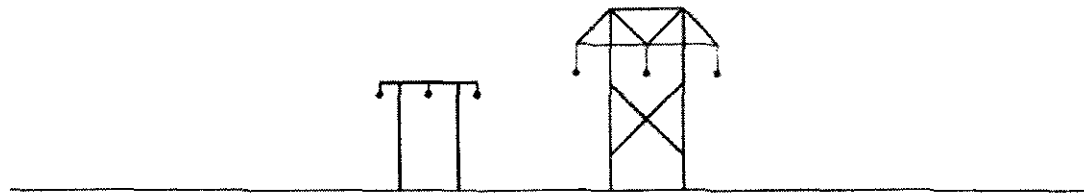
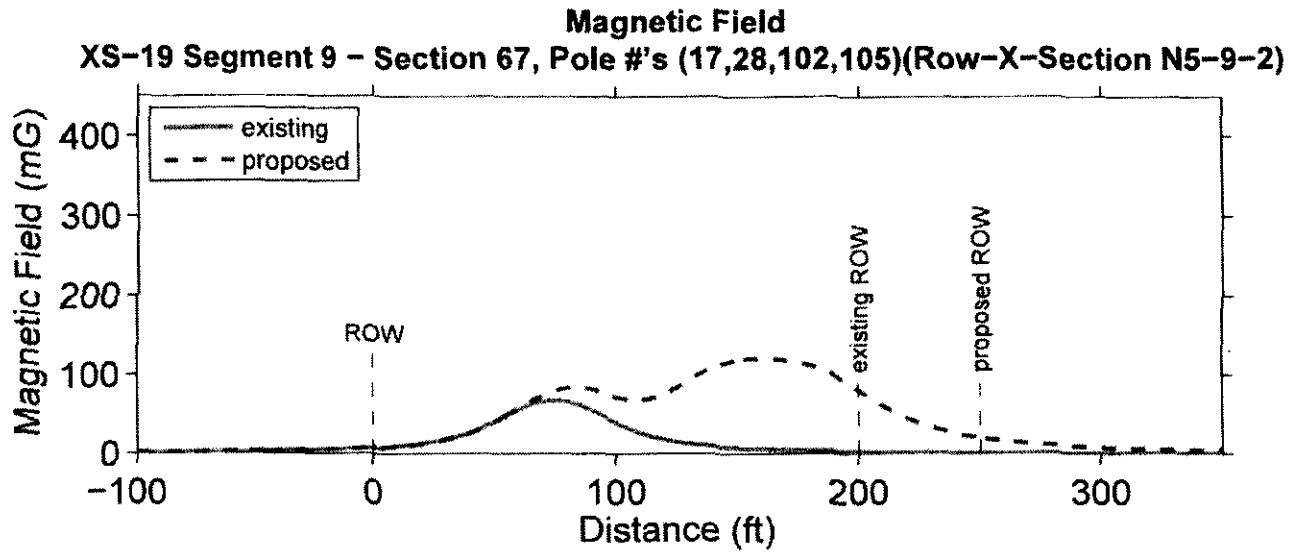
Existing and New Lines (Structures not drawn to scale)





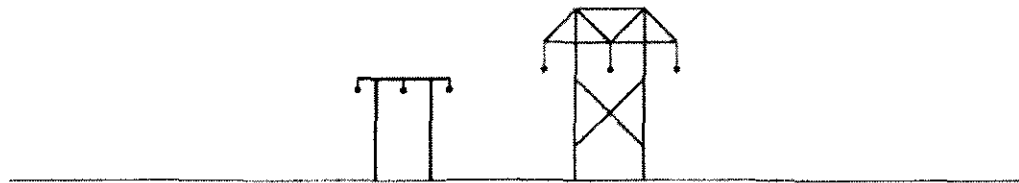
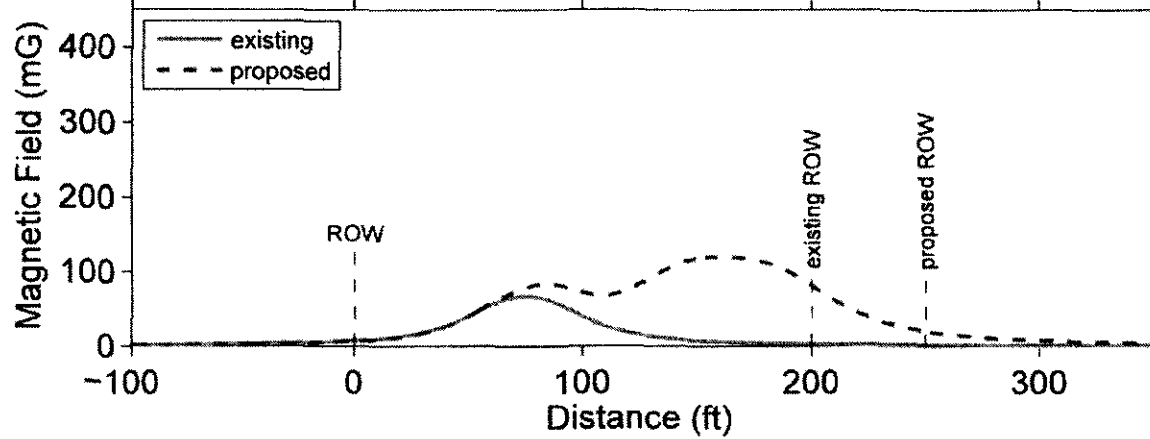
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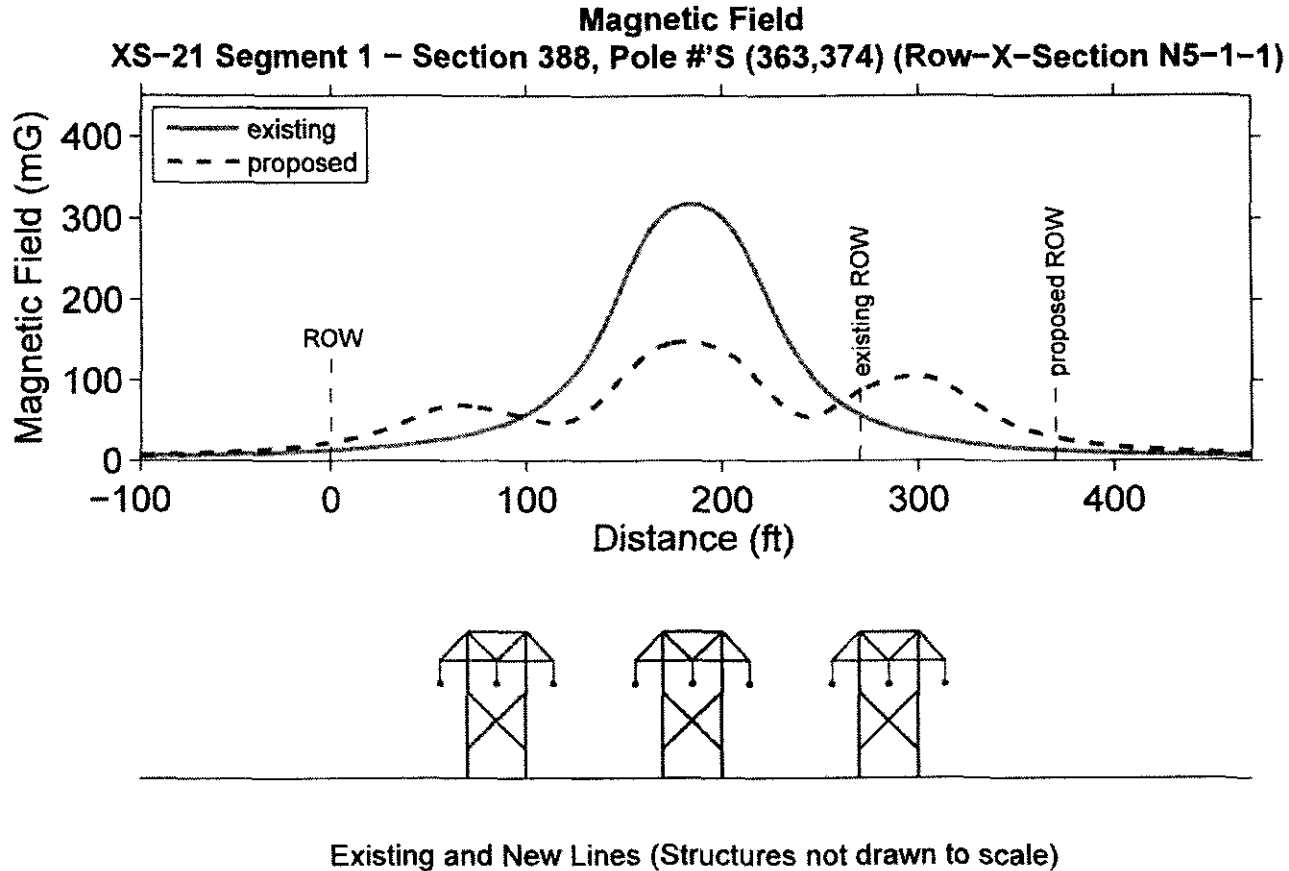


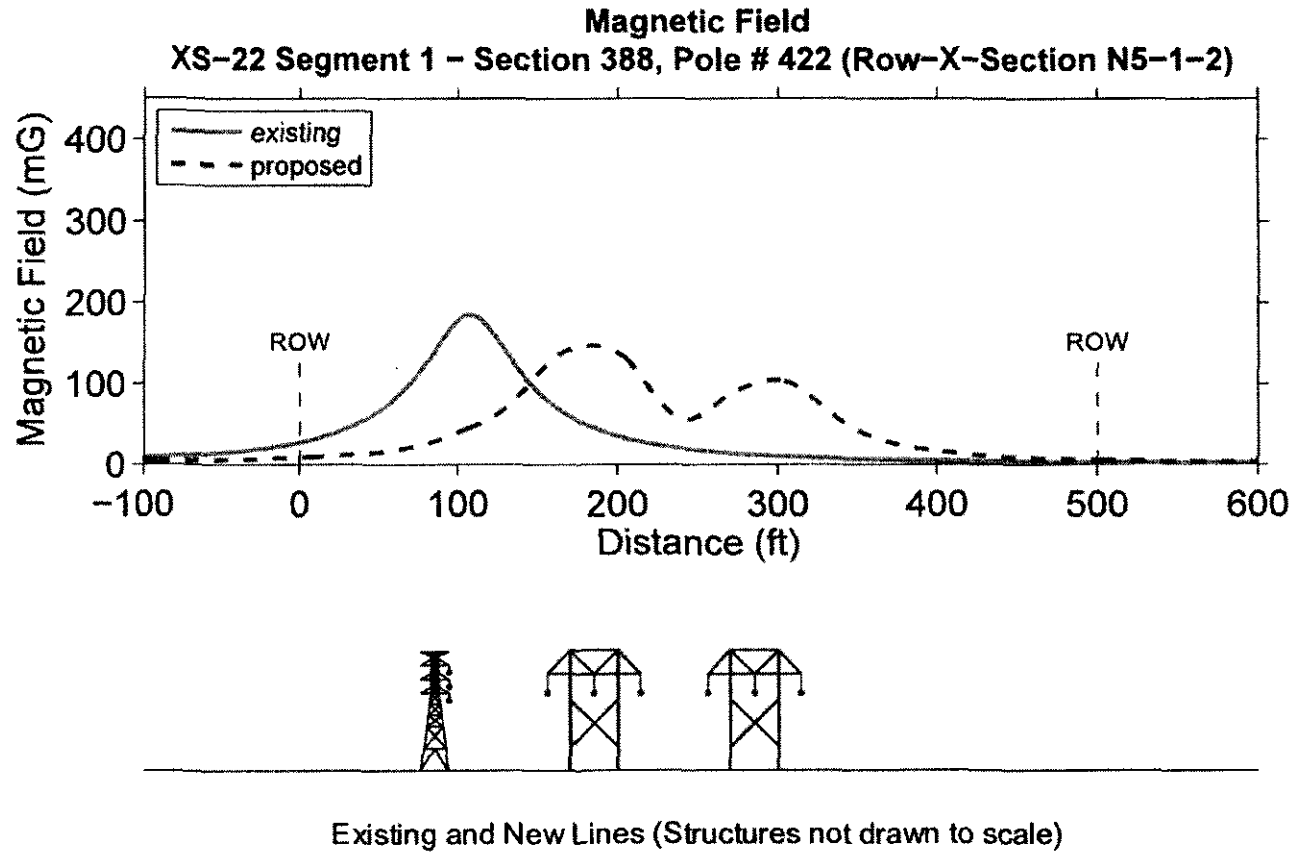
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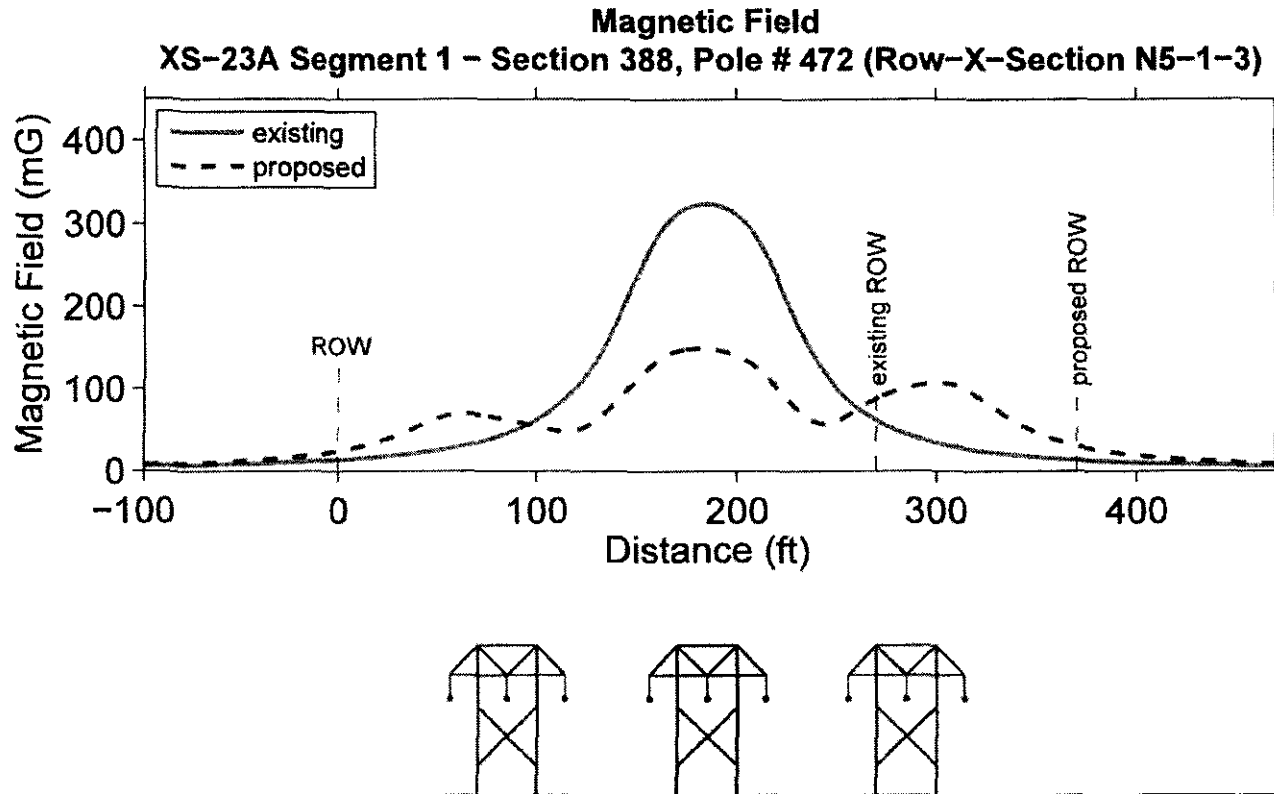
Magnetic Field XS-20 Segment 9 – Section 67, Pole #'s (117,122,135,140,145,146) (Row-X-Section N5-9-4)



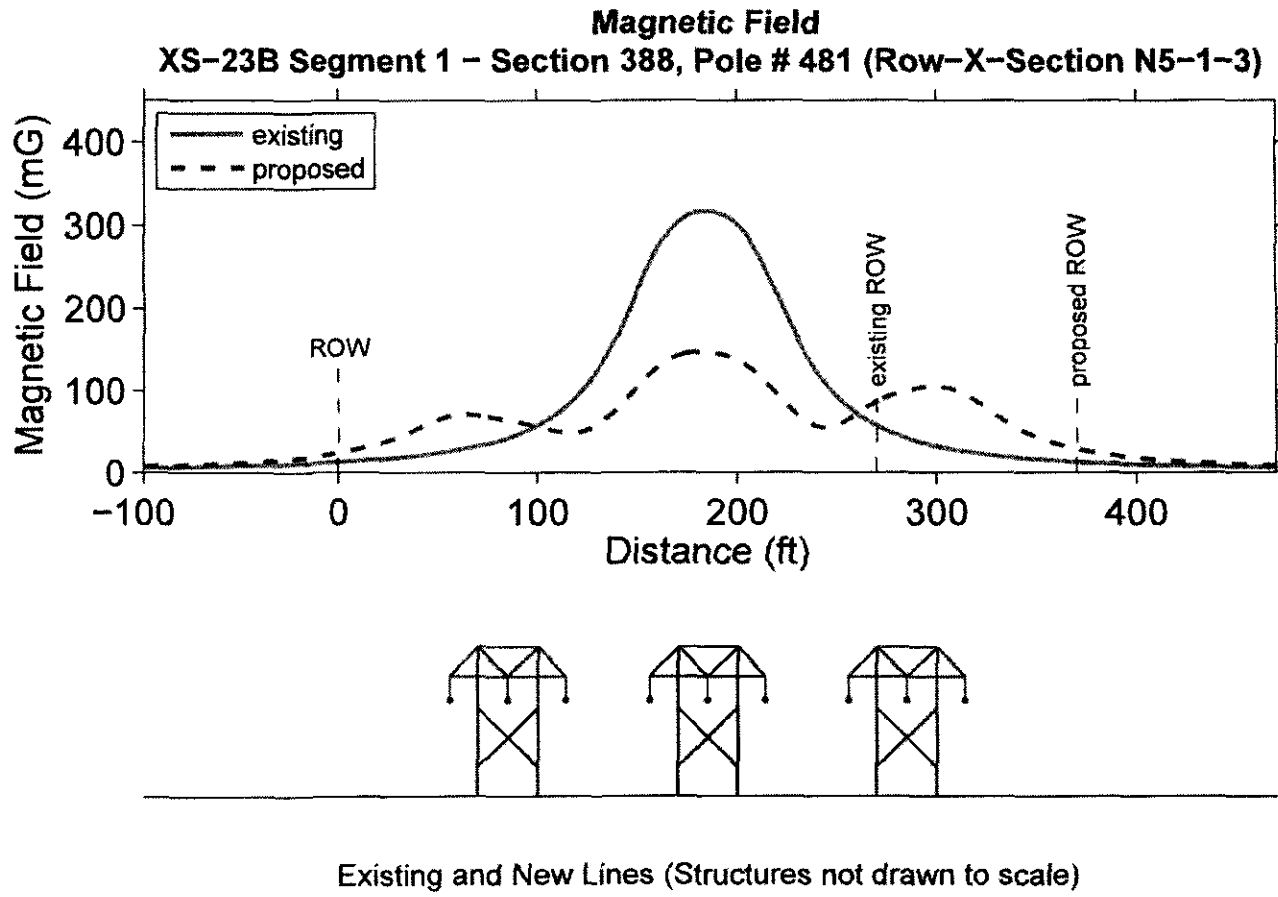
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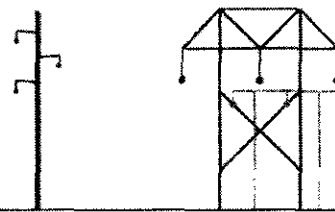
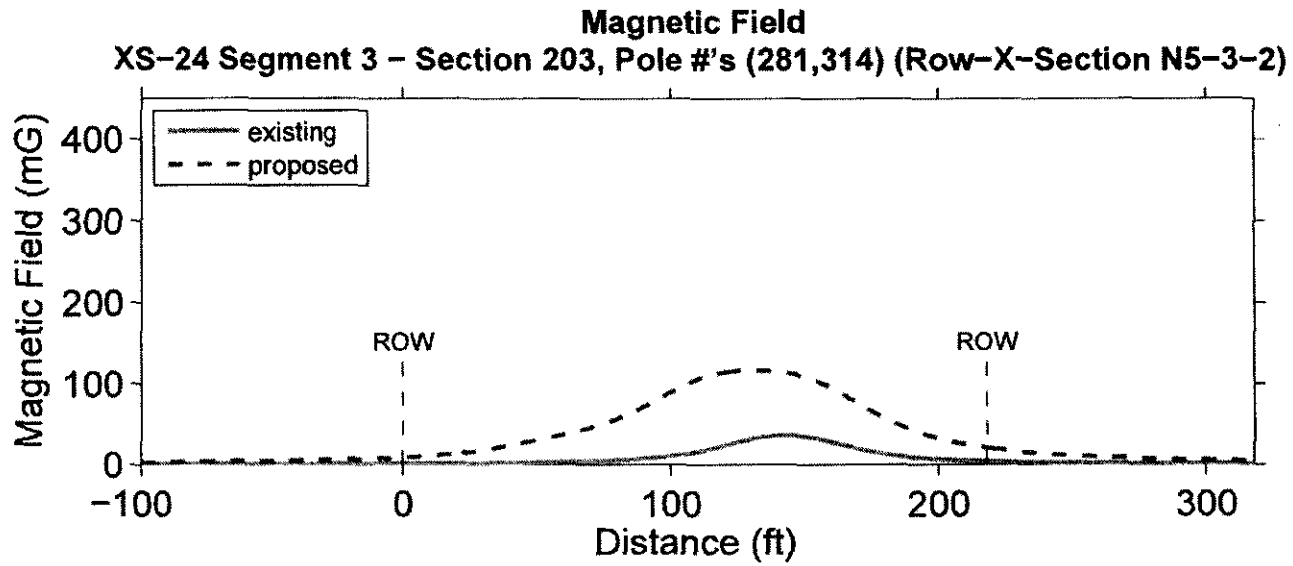




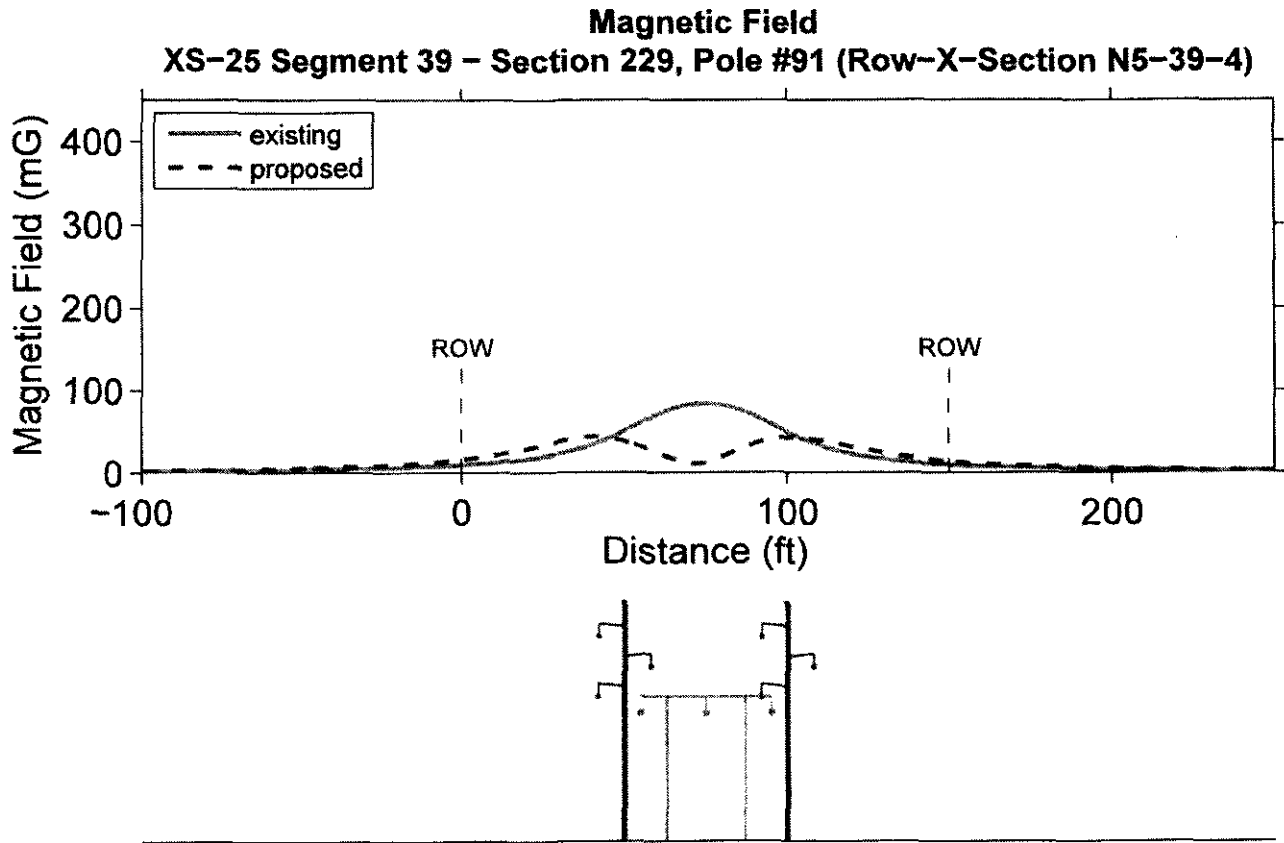


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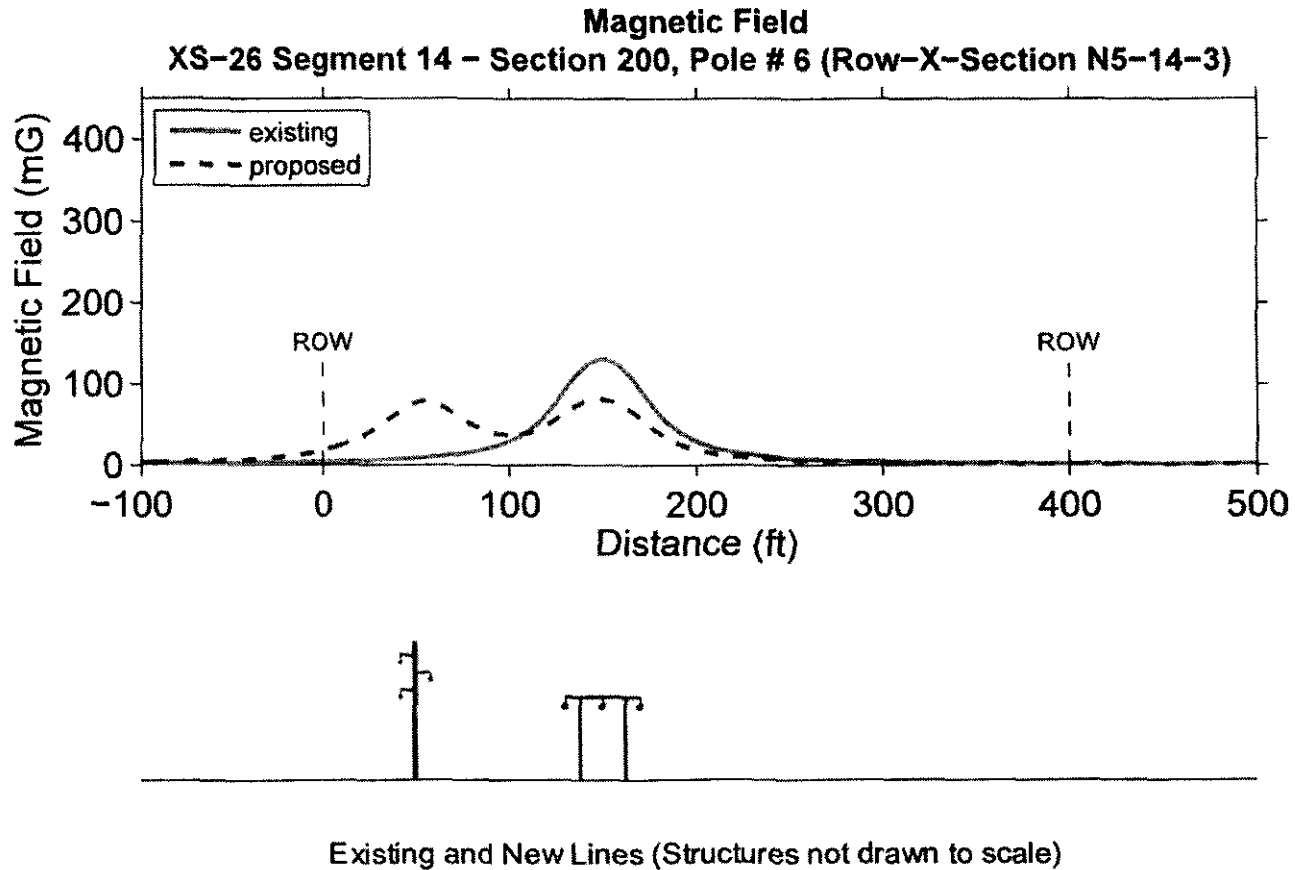


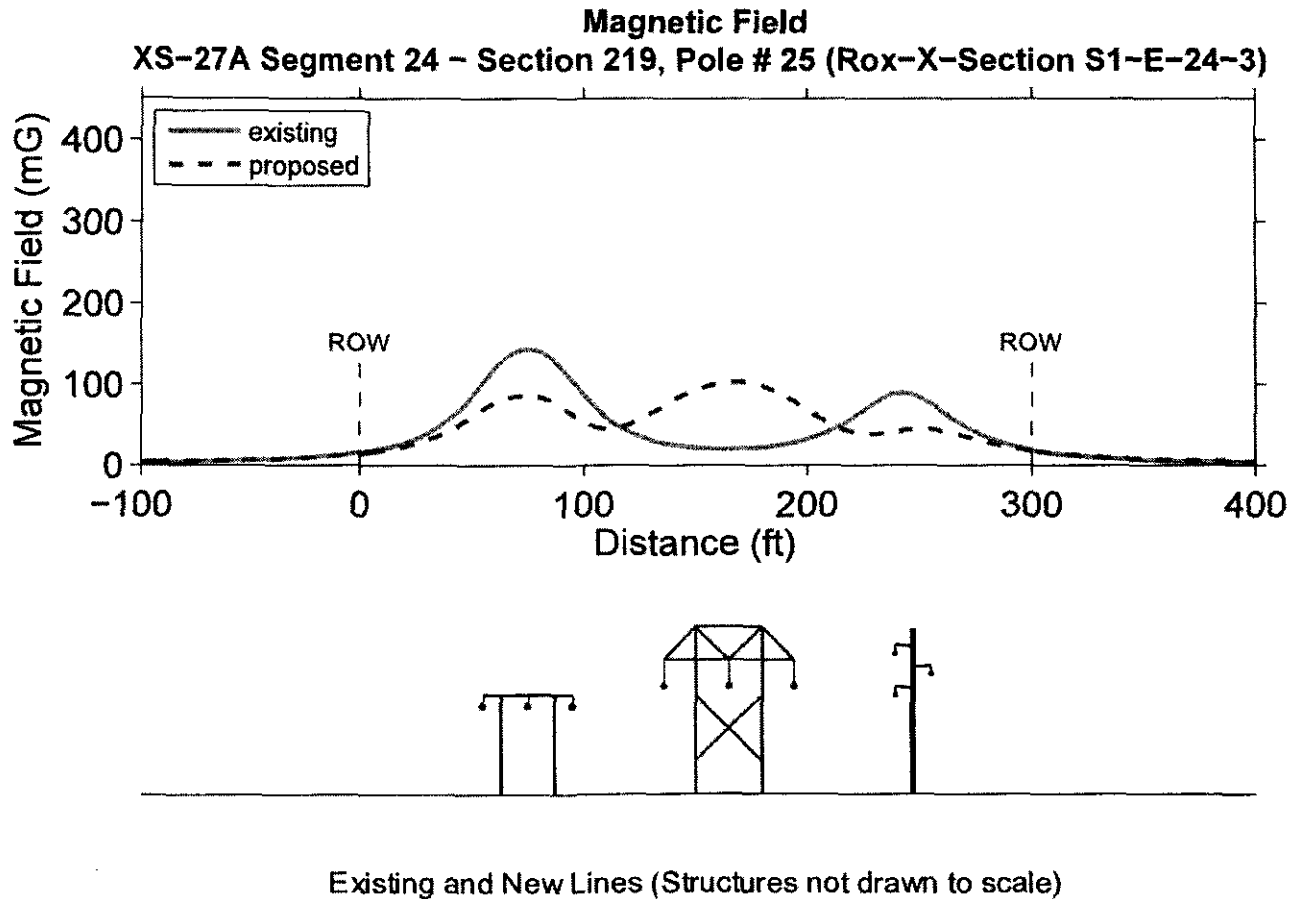


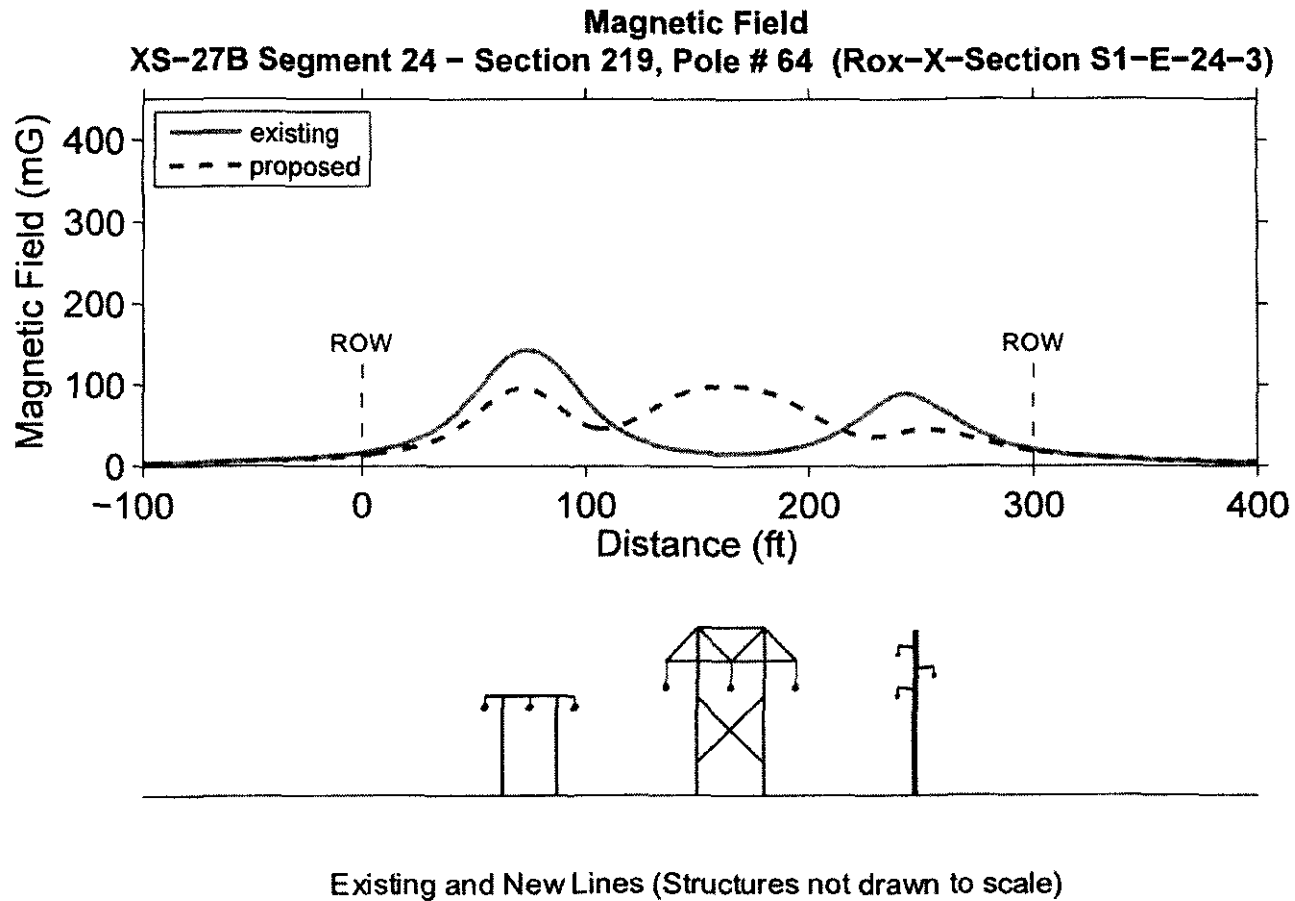
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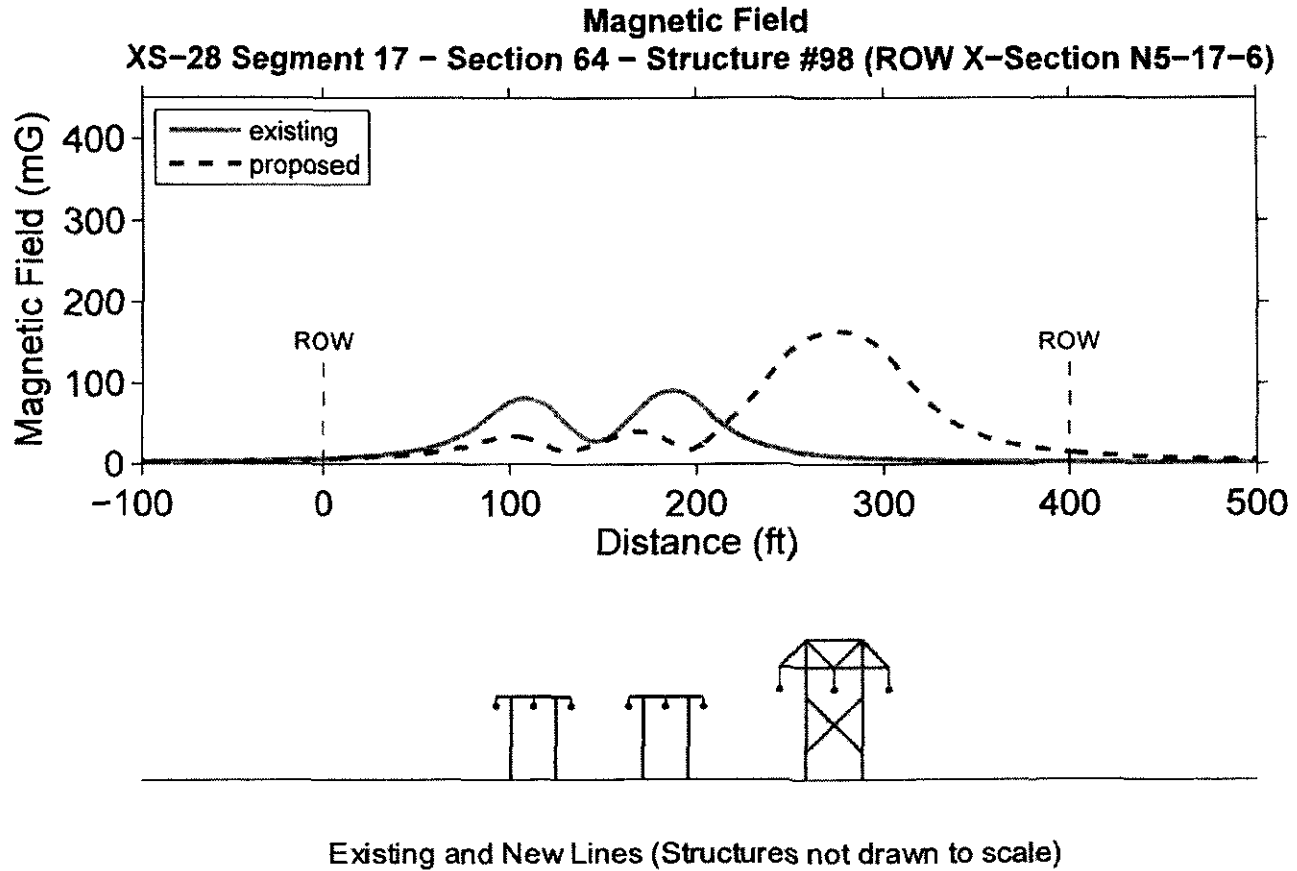


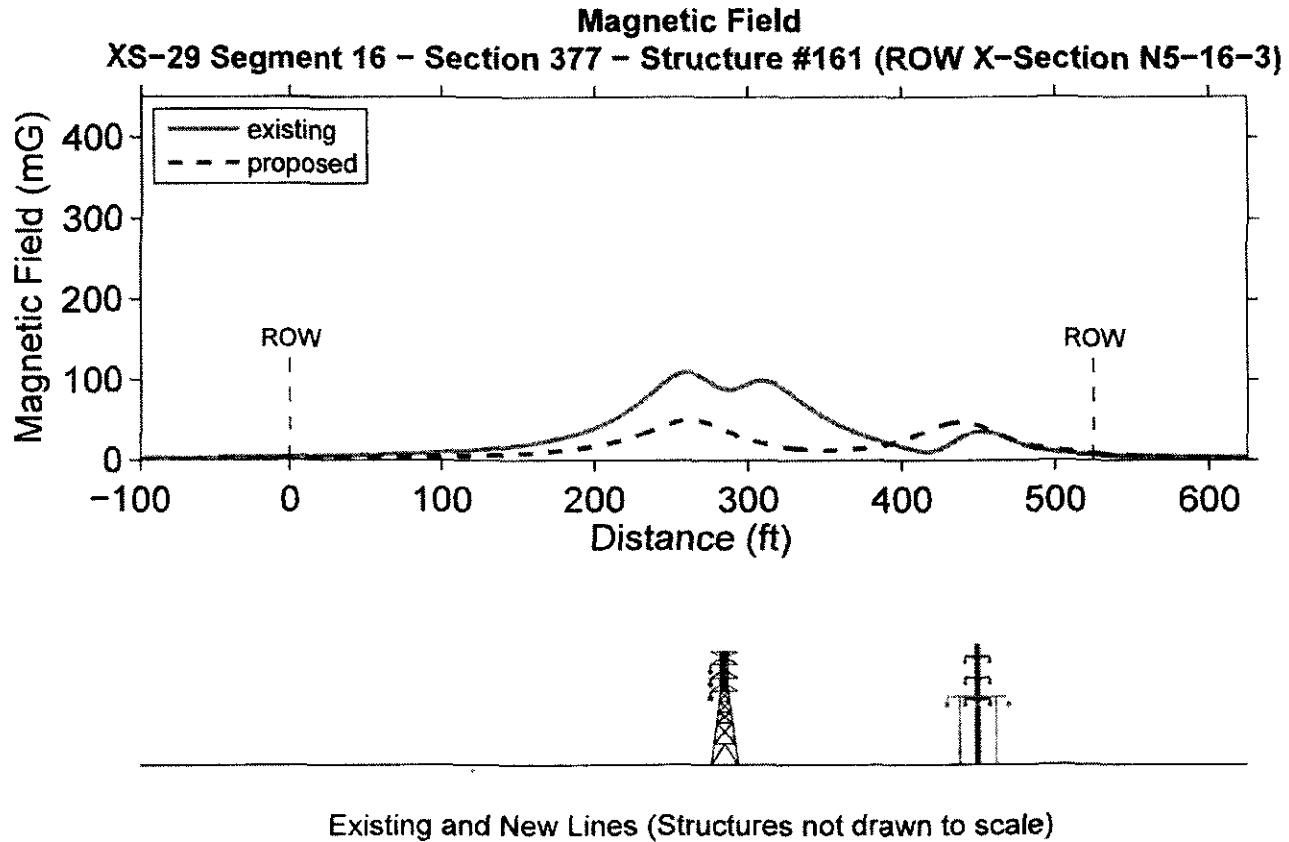
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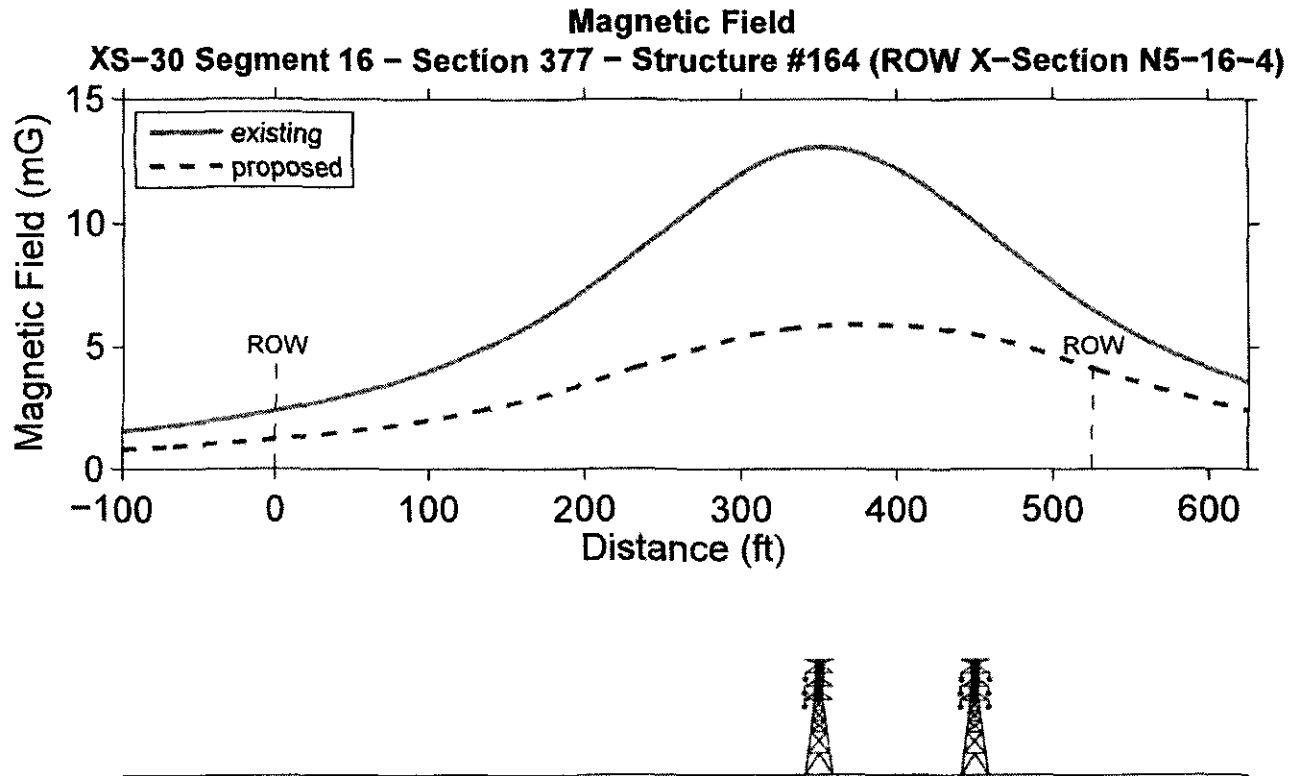












Existing and New Lines (Structures not drawn to scale)

MPRP Average Load – December 16, 2008

Line Section	Configuration	MAGNETIC FIELD (MG) AT LOCATION		
		-ROW edge	Maximum on ROW	+ROW edge
XS-1A Segment 10 - Section 67, Pole # 232 (ROW X-section N5-10-1)	existing	8.5	38.9	2.3
	proposed	10.8	121.0	22.4
XS-1B Segment 10 - Section 67, Pole # 259 (ROW X-section N5-10-1)	existing	8.8	39.5	2.3
	proposed	10.8	121.0	22.4
XS-1C Segment 10 - Section 67, Pole # 224 (ROW X-section N5-10-1)	existing	12.1	57.1	1.7
	proposed	10.8	121.0	22.4
XS-2A Segment 10 - Section 67, Pole # 294 (ROW X-section N5-10-2)	existing	3.0	39.5	4.9
	proposed	10.8	121.0	18.2
XS-2B Segment 10 - Section 67, Pole # 290 (ROW X-section N5-10-2)	existing	2.7	40.4	4.4
	proposed	7.9	125.6	19.1
XS-3A Segment 10 - Section 67, Pole # 335 (ROW X-section N5-10-3)	existing	8.8	39.5	2.3
	proposed	10.8	121.0	22.4
XS-3B Segment 10 - Section 67, Pole #'s (377,378,397)(ROW X-section N5-10-3)	existing	7.7	42.8	1.5
	proposed	10.8	121.0	22.4
XS-4 Segment 19 - Section 102, Pole #'s (49, 50, 58, 61, 62)(ROW X-section S1-E-19-1)	existing	3.5	26.5	0.3
	proposed	8.6	104.9	18.7
XS-5 Segment 19 - Section 102, Pole #'s (4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)(ROW X-section S1-E-19-1)	existing	4.9	32.7	0.5
	proposed	6.7	105.2	18.6
XS-6 Segment 27 - Section 250, Pole #'s (408, 407, 406, 394) (Row X-section S1-E-27-9)	existing	9.4	122.6	17.0
	proposed	12.5	71.7	22.2
XS-7 Segment 27 - Section 250, Pole #'s (339, 338, 309) (Row X-section S1-E-27-4)	existing	13.3	122.3	16.8
	proposed	12.5	71.7	22.2
XS-8 Segment 27 - Section 250, Pole # 199 (Row X-section S1-E-27-2)	existing	2.3	132.5	20.8
	proposed	14.4	129.6	21.2
XS-9 Segment 27 - Section 250, Pole #160 (Row X-section S1-E-27-1B)	existing	2.7	83.0	2.4
	proposed	13.6	76.5	3.7
XS-13A Segment 15 - Section 212, Pole #'s(116,121,124) (Row X-section N5-15-8)	existing	1.5	11.3	1.1
	proposed	22.9	127.2	11.0
XS-13B Segment 15 - Section 212, Pole # 110 (Row X-section N5-15-8)	existing	1.3	12.2	0.8
	proposed	24.9	130.5	12.0

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MPRP Average Load – December 16, 2008

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Line Section	Configuration	MAGNETIC FIELD (mG) AT LOCATION		
		-ROW edge	Maximum on ROW	+ROW edge
XS-13C Segment 15 - Section 212, Pole #'s (146,151) (Row X-section N5-15-8)	existing	0.9	11.3	2.1
	proposed	22.9	127.2	11.0
XS-14 Segment 15 - Section 212, Pole #'s (187,190)(Row X-section N5-15-10)	existing	1.0	25.1	1.2
	proposed	22.9	127.2	11.0
XS-15 Segment 15 - Section 212, Pole #'s(229) (Row X-section N5-15-11)	existing	1.2	24.2	3.0
	proposed	22.9	127.2	5.5
XS-16 Segment 15 - Section 212, Pole #'s(250) (Row X-section N5-15-14)	existing	1.0	25.1	1.2
	proposed	22.9	127.2	11.0
XS-17 Segment 18 - Section 167, Pole # 66 (Row X-Section S1-E-18-2)	existing	8.8	63.3	0.7
	proposed	4.8	105.0	18.5
XS-18A Segment 9 - Section 67, Pole # 8(Row-X-Section N5-9-1)	existing	5.8	71.9	0.8
	proposed	12.5	118.7	21.4
XS-18B Segment 9 - Section 67, Pole # 16(Row-X-Section N5-9-1)	existing	5.8	71.9	0.8
	proposed	12.5	118.7	21.4
XS-19 Segment 9 - Section 67, Pole #'s (17,28,102,105)(Row-X-Section N5-9-2)	existing	7.1	68.8	1.4
	proposed	7.0	120.9	20.8
XS-20 Segment 9 - Section 67, Pole #'s (117,122,135,140,145,145) (Row-X-Section N5-9-4)	existing	7.1	68.8	1.4
	proposed	7.0	120.9	20.8
XS-21 Segment 1 - Section 388, Pole # S (563,374) (Row-X-Section N5-1-1)	existing	12.3	316.9	12.3
	proposed	22.4	147.7	28.6
XS-22 Segment 1 - Section 388, Pole # 422 (Row-X-Section N5-1-2)	existing	27.1	185.4	2.6
	proposed	8.7	147.6	5.8
XS-23A Segment 1 - Section 388, Pole # 472 (Row-X-Section N5-1-3)	existing	13.3	323.8	13.3
	proposed	24.3	149.8	31.1
XS-23B Segment 1 - Section 388, Pole # 481 (Row-X-Section N5-1-3)	existing	12.3	316.9	12.3
	proposed	23.7	146.9	28.7
XS-24 Segment 3 - Section 203, Pole #'s (281,314) (Row-X-Section N5-3-2)	existing	1.1	35.8	3.8
	proposed	9.0	117.0	21.1
XS-25 Segment 39 - Section 229, Pole #31 (Row-X-Section N5-39-4)	existing	8.8	63.4	8.8

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MPRP Average Load – December 16, 2008

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Line Section	Configuration	MAGNETIC FIELD (mG) AT LOCATION		
		-ROW edge	Maximum on ROW	+ROW edge
	proposed	15.8	43.4	13.7
XS-26 Segment 14 - Section 200, Pole # 6 (ROW X-Section N5-14-3)	existing	3.8	130.6	1.3
	proposed	18.4	81.7	1.1
XS-27A Segment 24 - Section 219, Pole # 25 (ROW X-Section S1-E-24-3)	existing	15.2	143.3	18.6
	proposed	14.2	102.8	18.0
XS-27B Segment 24 - Section 219, Pole # 64 (ROW X-Section S1-E-24-3)	existing	16.1	142.8	20.4
	proposed	13.3	99.0	18.8
XS-28 Segment 17 - Section 64 - Structure #98 (ROW X-Section N5-17-6)	existing	6.1	90.8	2.0
	proposed	5.8	164.2	14.8
XS-29 Segment 15 - Section 377 - Structure #161 (ROW X-Section N5-15-3)	existing	4.1	109.8	6.3
	proposed	1.8	50.7	8.4
XS-30 Segment 16 - Section 377 - Structure #164 (ROW X-Section N5-16-4)	existing	2.1	13.1	6.5
	proposed	1.2	5.9	4.1