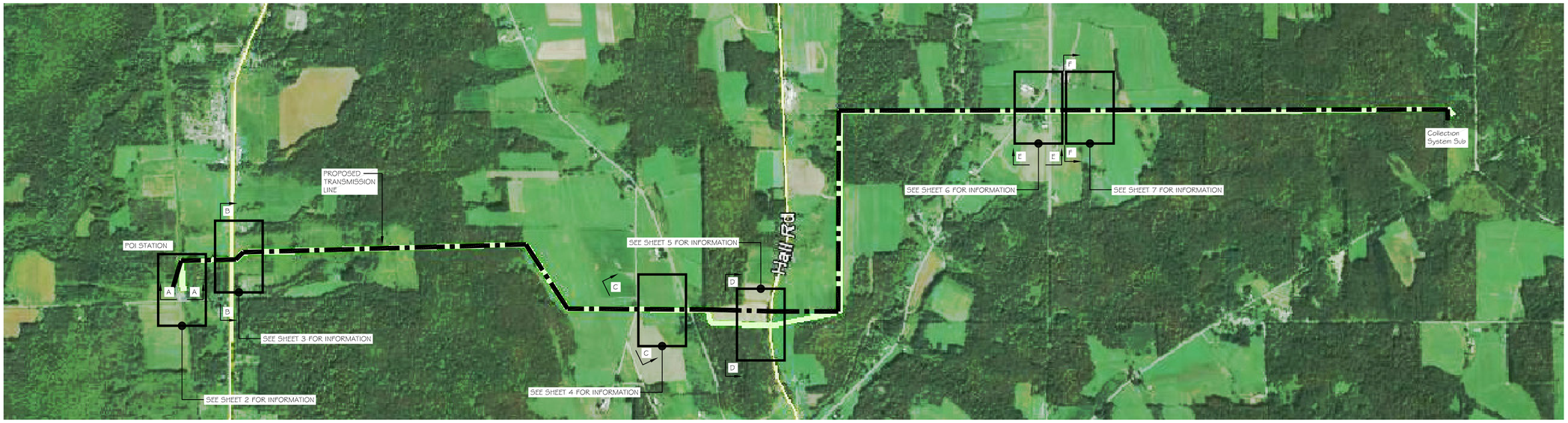
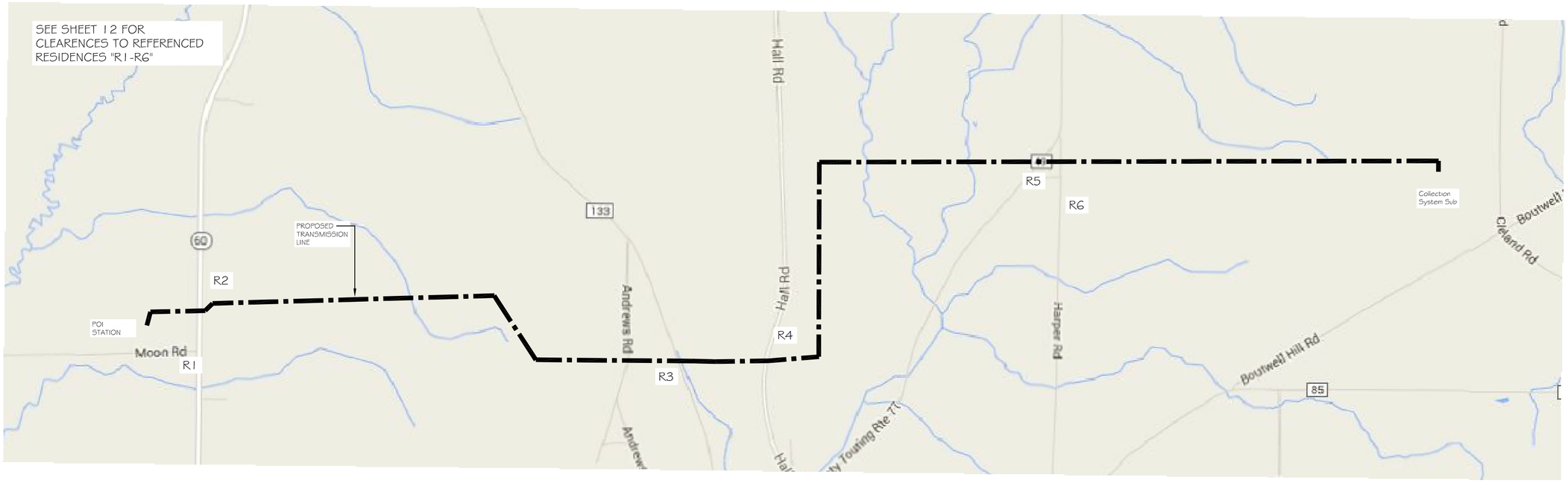


OVERVIEW DRAWING



OVERVIEW MAP

REV.:	DATE:	DESCRIPTION:	DRAWN BY:	CHECKED BY:	APPROVED BY:
		-			
D	5/4/16	ISSUE TO CLIENT	SH	AC	EP

MAIN LINE
ENERGY CONSULTANTS LLC
WWW.MAINLEC.COM

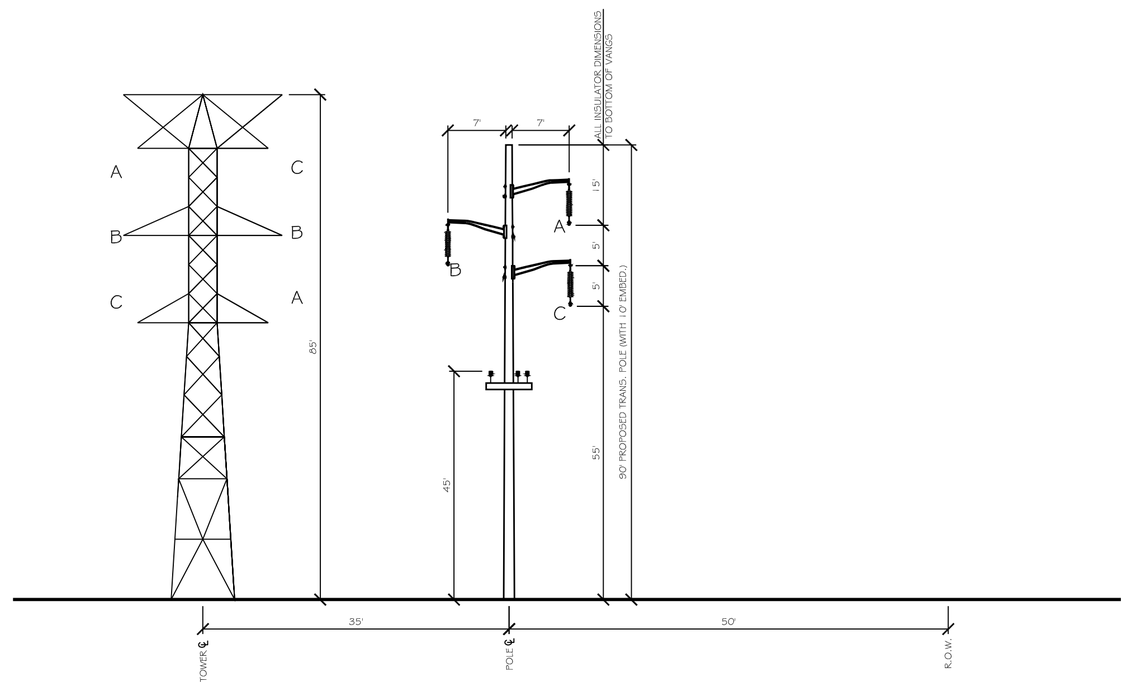
CASSADAGA WIND EMF STUDY
APPLIED HIGH VOLTAGE

GENERAL AREA OVERVIEW
PROPOSED 115kV LAYOUT
UNIQUE CROSS SECTIONS & CLEARANCES

PLOT SCALE: ARCH / ENGRG 0 1 2

PROJ. NO.:	SCALE:	
AHV-15-002	NONE	
DWG. NO.:	SHEET:	REV.:
SK1	1	D

PLAN VIEW



ELEVATION A-A

REV.:	DATE:	DESCRIPTION:	DRAWN BY:	CHECKED BY:	APPROVED BY:
C	4/6/16	ISSUE TO CLIENT	SH	AC	EP

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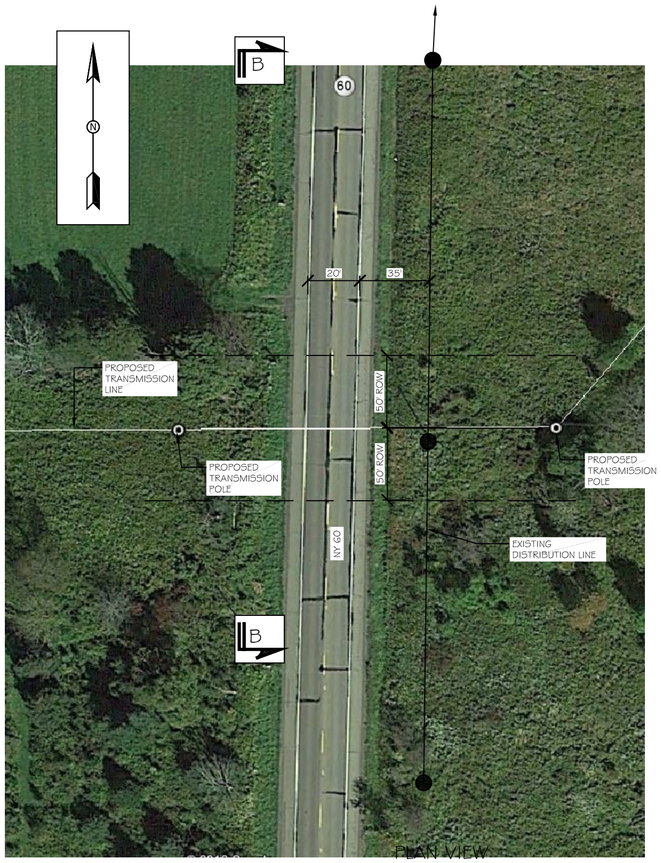
CASSADAGA WIND EMF STUDY
APPLIED HIGH VOLTAGE

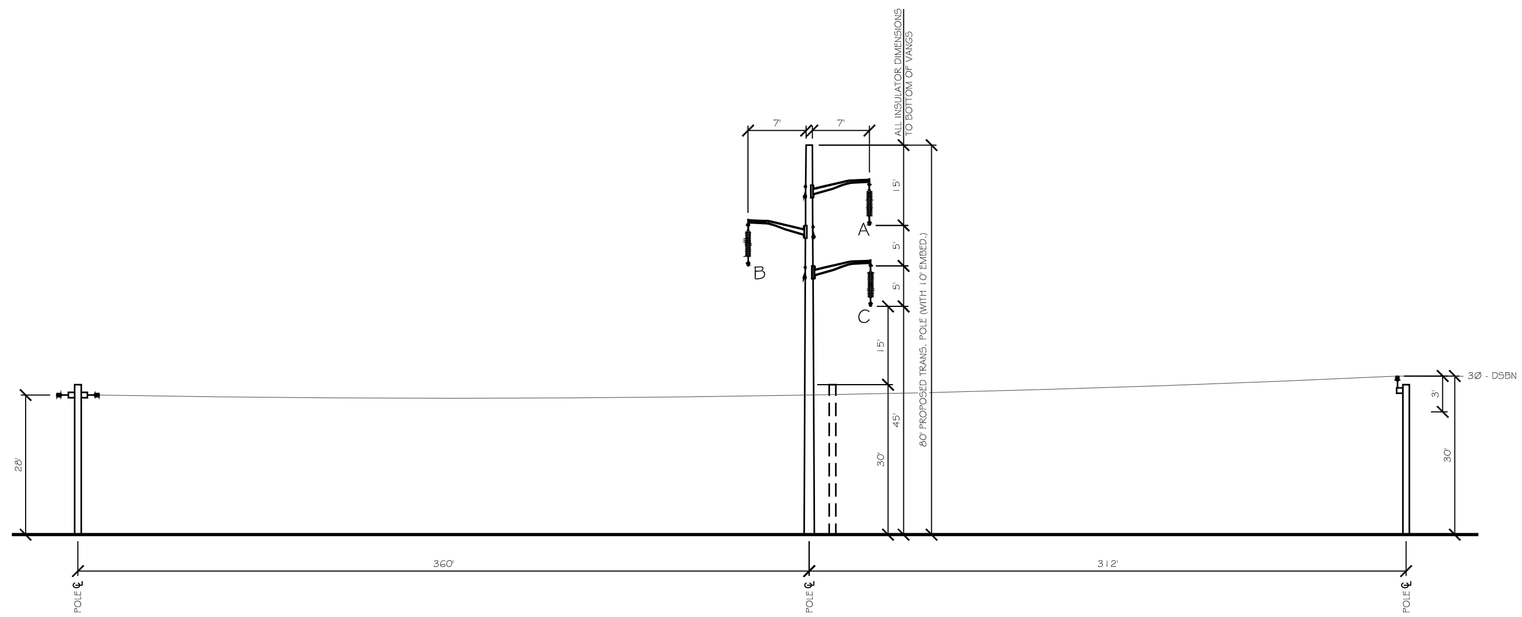
PROPOSED 115kV LAYOUT
SECTION A-A

PLOT SCALE: ARCH / ENGRG 0 1 2

PROJ. NO.:	SCALE:	
AHV-15-002	NONE	
DWG. NO.:	SHEET:	REV.:
SK1	2	C



PLAN VIEW



ELEVATION 'B-B'

REV.:	DATE:	DESCRIPTION:	DRAWN BY:	CHECKED BY:	APPROVED BY:
C	4/6/16	ISSUE TO CLIENT	SH	AC	EP

MAIN LINE
ENERGY CONSULTANTS LLC
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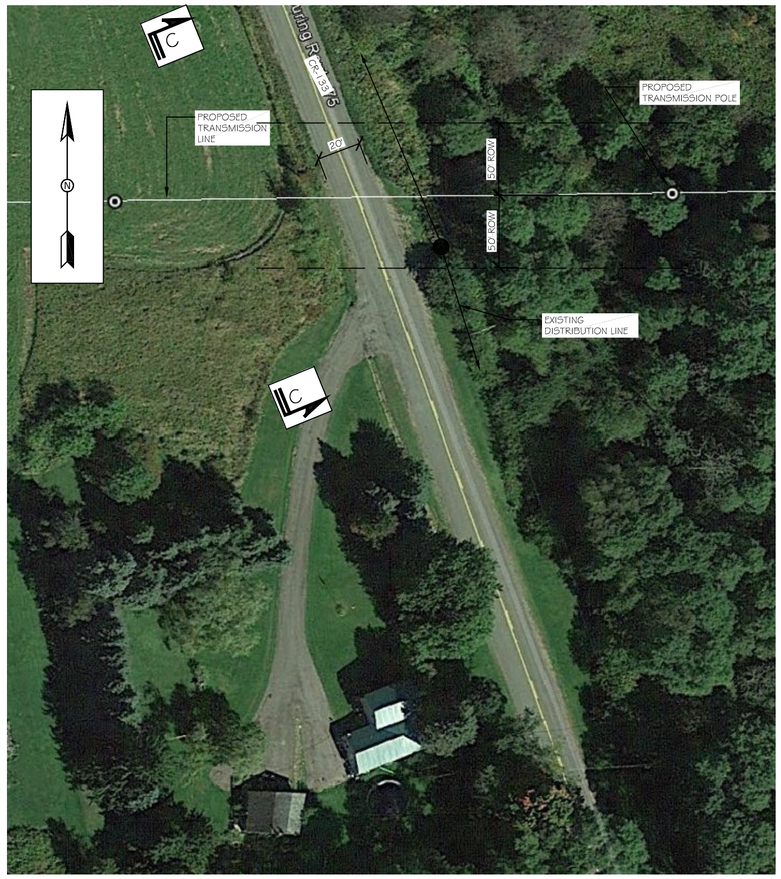
CASSADAGA WIND EMF STUDY
APPLIED HIGH VOLTAGE

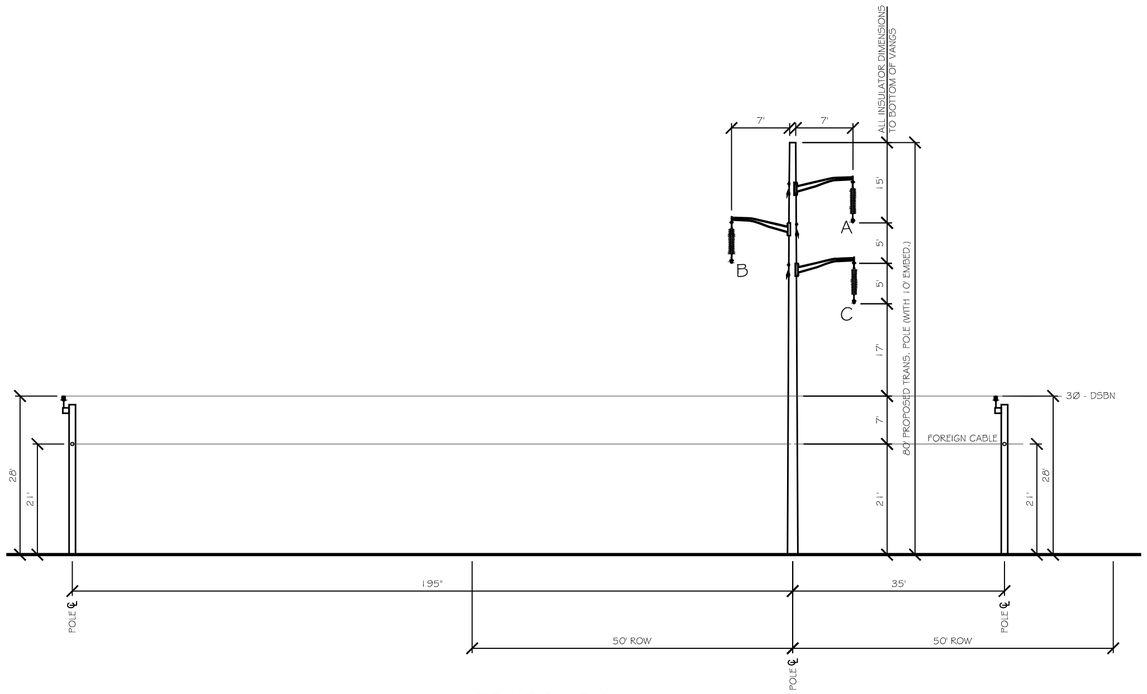
PROPOSED 115kV LAYOUT
SECTION B-B

PLOT SCALE: ARCH ENGRG 0 1 2

PROJ. NO.:	SCALE:	
AHV-15-002	NONE	
DWG. NO.:	SHEET:	REV.:
SK1	3	C



PLAN VIEW



ELEVATION 'C-C'

REV.:	DATE:	DESCRIPTION:	DRAWN BY:	CHECKED BY:	APPROVED BY:
B	3/7/16	ISSUE TO CLIENT	SH	AC	EP
A	2/12/16	ISSUE TO CLIENT	SH	AC	EP

MAIN LINE
ENERGY CONSULTANTS LLC
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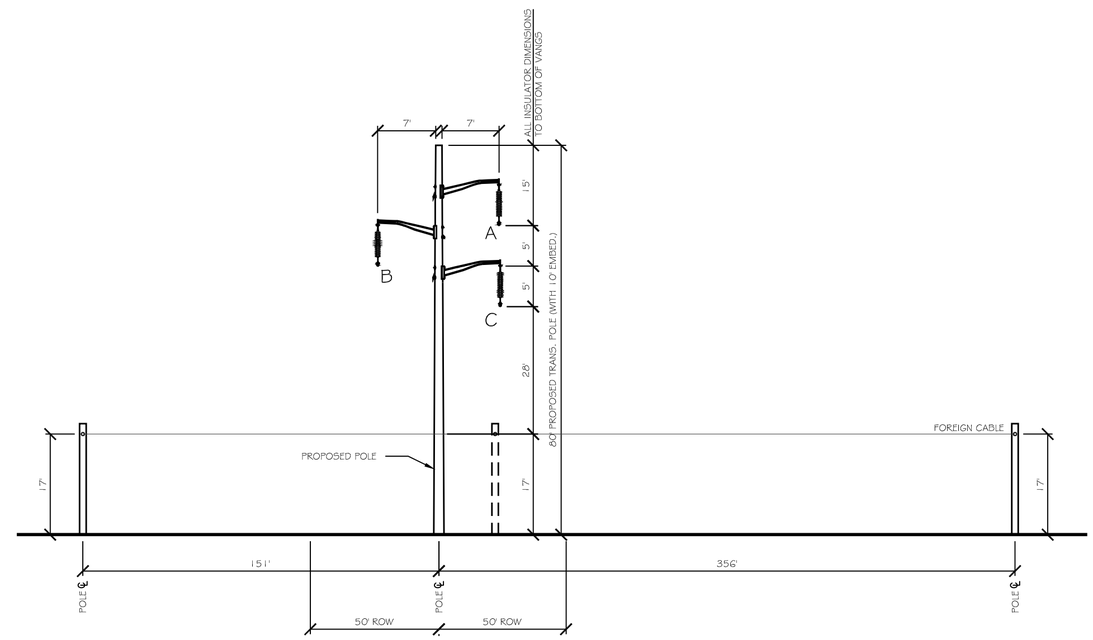
CASSADAGA WIND EMF STUDY
APPLIED HIGH VOLTAGE

PROPOSED 115kV LAYOUT
SECTION C-C

PLOT SCALE:
ARCH 0 1 2
ENGRG 0 1 2

PROJ. NO.: AHV-15-002
SCALE: NONE
DWG. NO.: SK1
SHEET: 4
REV.: B

PLAN VIEW



ELEVATION 'D-D'

REV.:	DATE:	DESCRIPTION:	DRAWN BY:	CHECKED BY:	APPROVED BY:
C	4/6/16	ISSUE TO CLIENT	SH	AC	EP

MAIN LINE
ENERGY CONSULTANTS LLC
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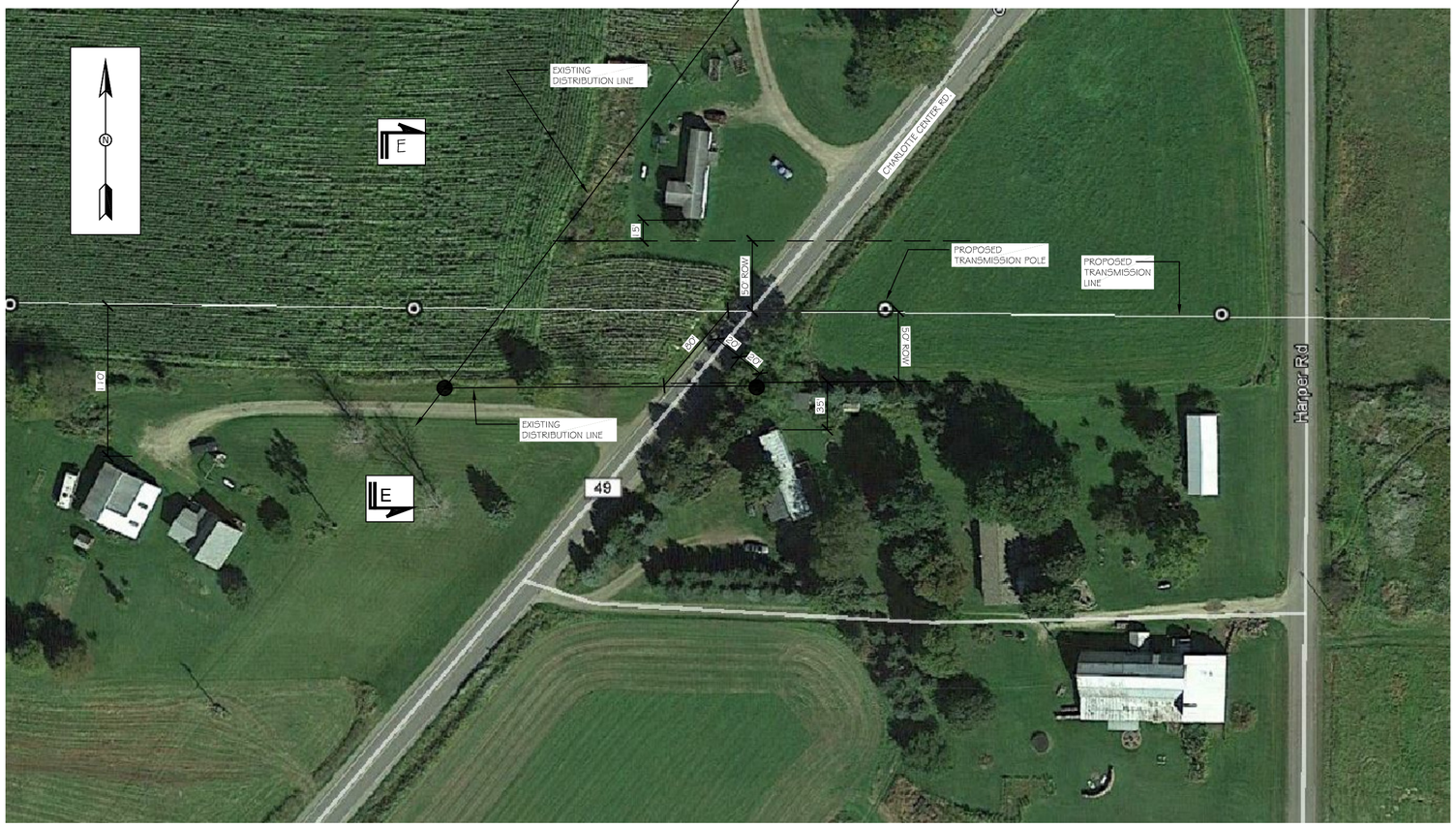
CASSADAGA WIND EMF STUDY
APPLIED HIGH VOLTAGE

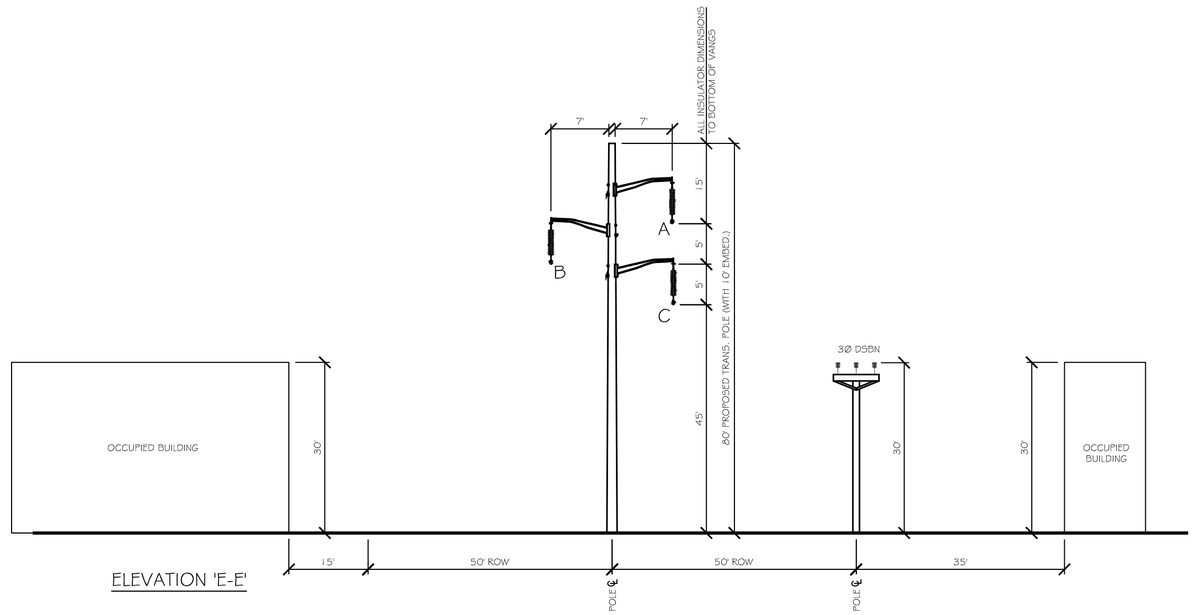
PROPOSED 115kV LAYOUT
SECTION D-D

PLOT SCALE: ARCH ENGRG 0 1 2

PROJ. NO.:	SCALE:	
AHV-15-002	NONE	
DWG. NO.:	SHEET:	REV.:
SK1	5	C



PLAN VIEW



ELEVATION 'E-E'

REV.:	DATE:	DESCRIPTION:	DRAWN BY:	CHECKED BY:	APPROVED BY:
C	4/6/16	ISSUE TO CLIENT	SH	AC	EP

MAIN LINE
ENERGY CONSULTANTS LLC
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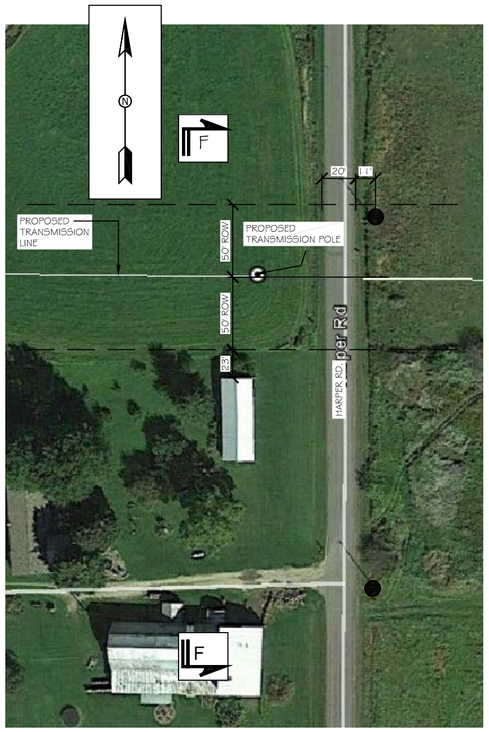
CASSADAGA WIND EMF STUDY
APPLIED HIGH VOLTAGE

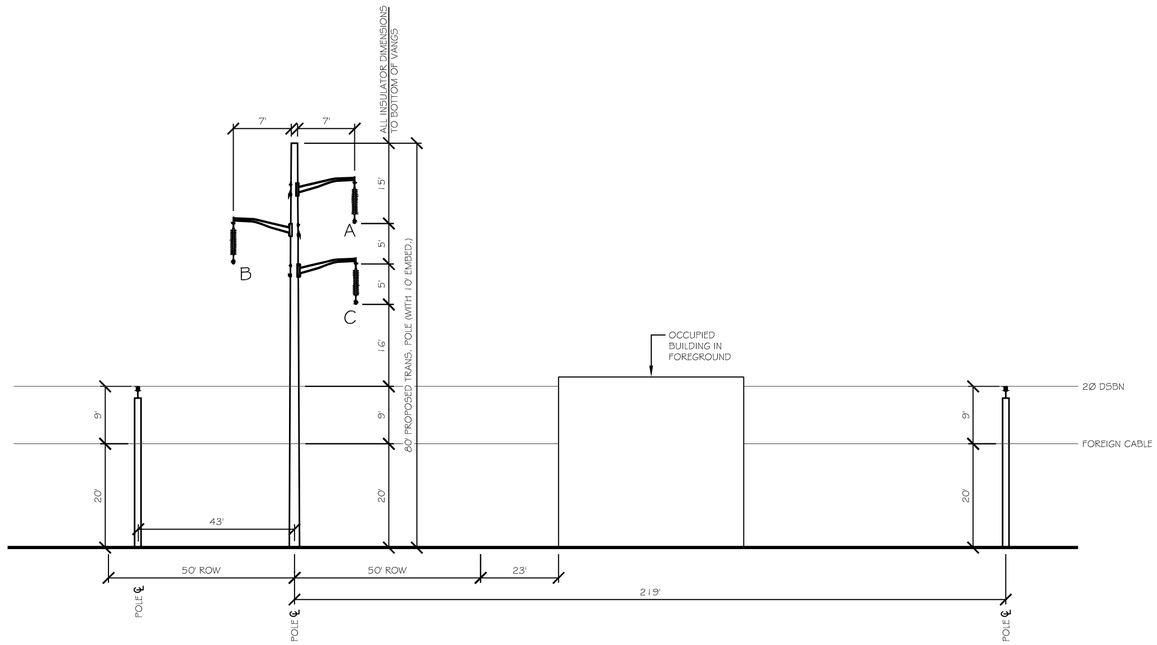
PROPOSED 115kV LAYOUT
SECTION E-E

PLOT SCALE: ARCH ENGRG 0 1 2

PROJ. NO.:	SCALE:	
AHV-15-002	NONE	
DWG. NO.:	SHEET:	REV.:
SK1	6	C



PLAN VIEW



ELEVATION 'F-F'

REV.:	DATE:	DESCRIPTION:	DRAWN BY:	CHECKED BY:	APPROVED BY:
C	4/6/16	ISSUE TO CLIENT	SH	AC	EP

MAIN LINE
ENERGY CONSULTANTS LLC
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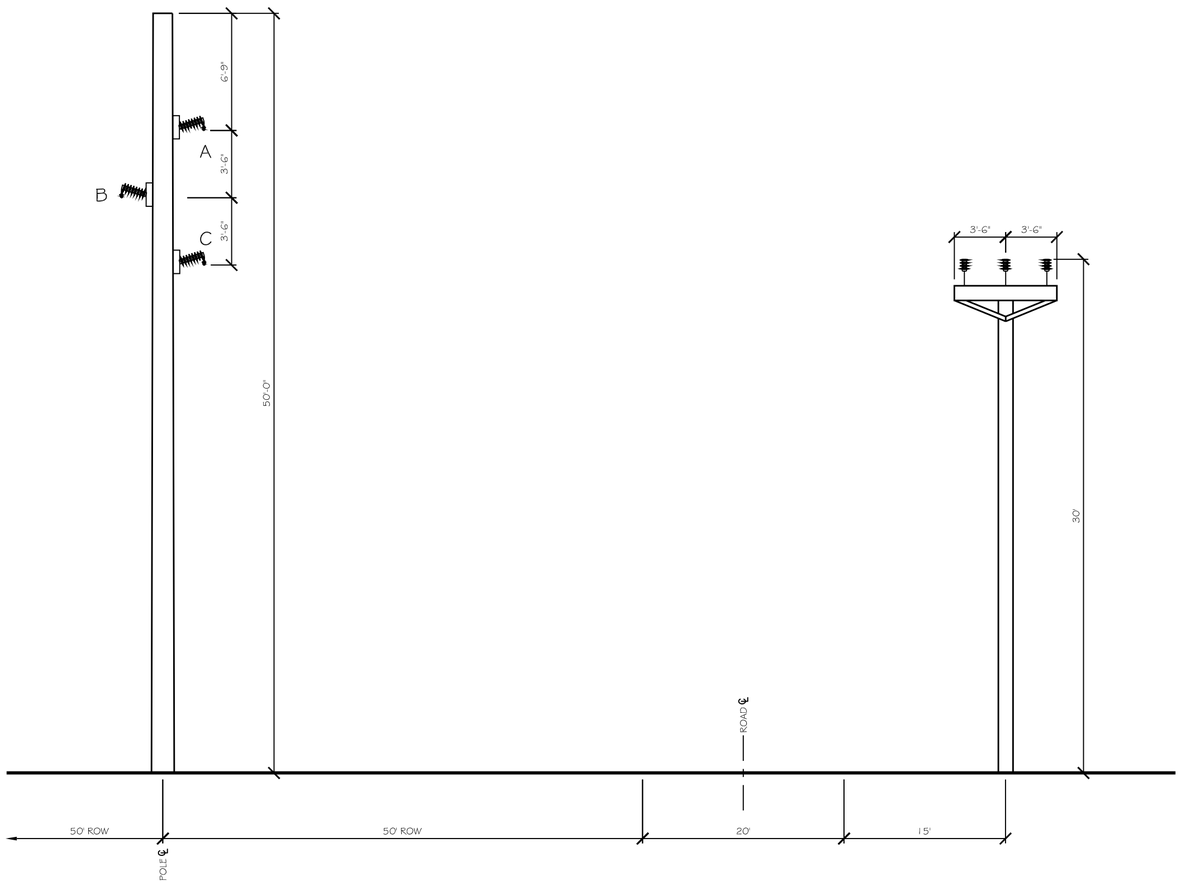
CASSADAGA WIND EMF STUDY
APPLIED HIGH VOLTAGE

PROPOSED 115kV LAYOUT
SECTION F-F

PLOT SCALE:
ARCH 0 1 2
ENGRG 0 1 2

PROJ. NO.:	SCALE:	
AHV-15-002	NONE	
DWG. NO.:	SHEET:	REV.:
SK1	7	C



TYPICAL COLLECTION LINE
PARALLELING DSBN

REV.:	DATE:	DESCRIPTION:	DRAWN BY:	CHECKED BY:	APPROVED BY:
C	4/6/16	ISSUE TO CLIENT	SH	AC	EP

MAIN LINE
ENERGY CONSULTANTS LLC
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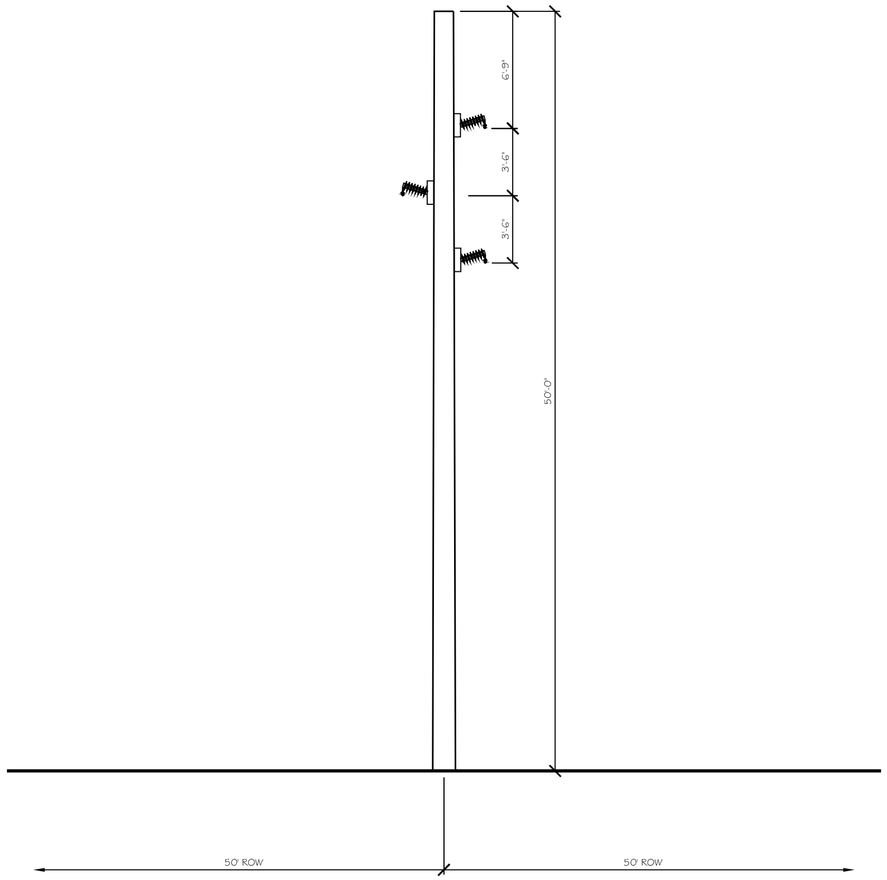
CASSADAGA WIND EMF STUDY
APPLIED HIGH VOLTAGE

PROPOSED 34.55kV COLLECTION SYSTEM
TYP. OVERHEAD PARALLEL EXISTING DISTR.

PLOT SCALE: ARCH / ENGRG 0 1 2

PROJ. NO.:	SCALE:	
AHV-15-002	NONE	
DWG. NO.:	SHEET:	REV.:
SK1	8	C



TYPICAL COLLECTION LINE
34kV 3Ø D

REV.:	DATE:	DESCRIPTION:	DRAWN BY:	CHECKED BY:	APPROVED BY:
C	4/6/16	ISSUE TO CLIENT	SH	AC	EP

MAIN LINE
ENERGY CONSULTANTS LLC
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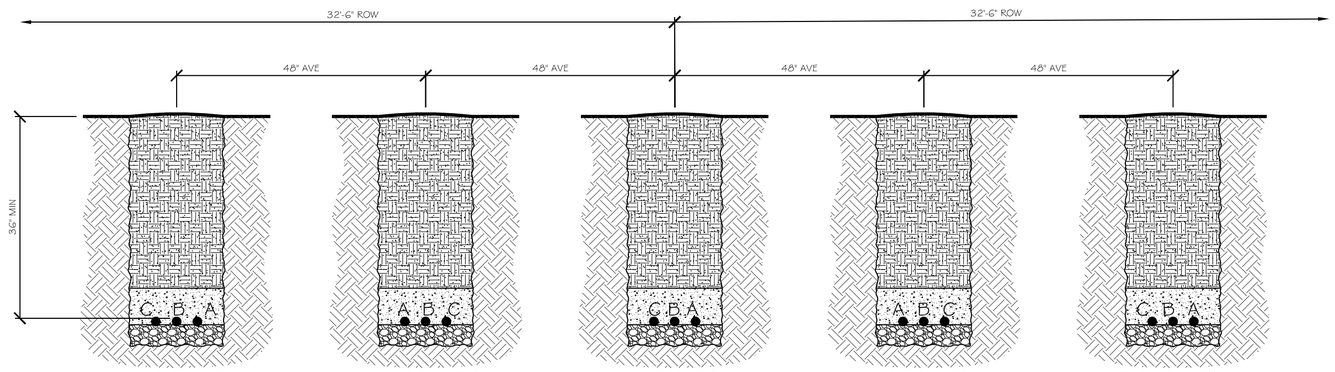
CASSADAGA WIND EMF STUDY
APPLIED HIGH VOLTAGE

PROPOSED 34.5kV COLLECTION SYSTEM
TYPICAL OVERHEAD ARRANGEMENT

PLOT SCALE:
ARCH 0 1 2
ENGRG 0 1 2

PROJ. NO.:	SCALE:	
AHV-15-002	NONE	
DWG. NO.:	SHEET:	REV.:
SK1	9	C



TYPICAL UNDER GROUND COLLECTION LINE
34kV 3Ø
ONE THROUGH FIVE PARALLEL CIRCUITS.
EQUIVALENT SPACING

REV.:	DATE:	DESCRIPTION:	DRAWN BY:	CHECKED BY:	APPROVED BY:
C	4/6/16	ISSUE TO CLIENT	SH	AC	EP

MAIN LINE
ENERGY CONSULTANTS LLC
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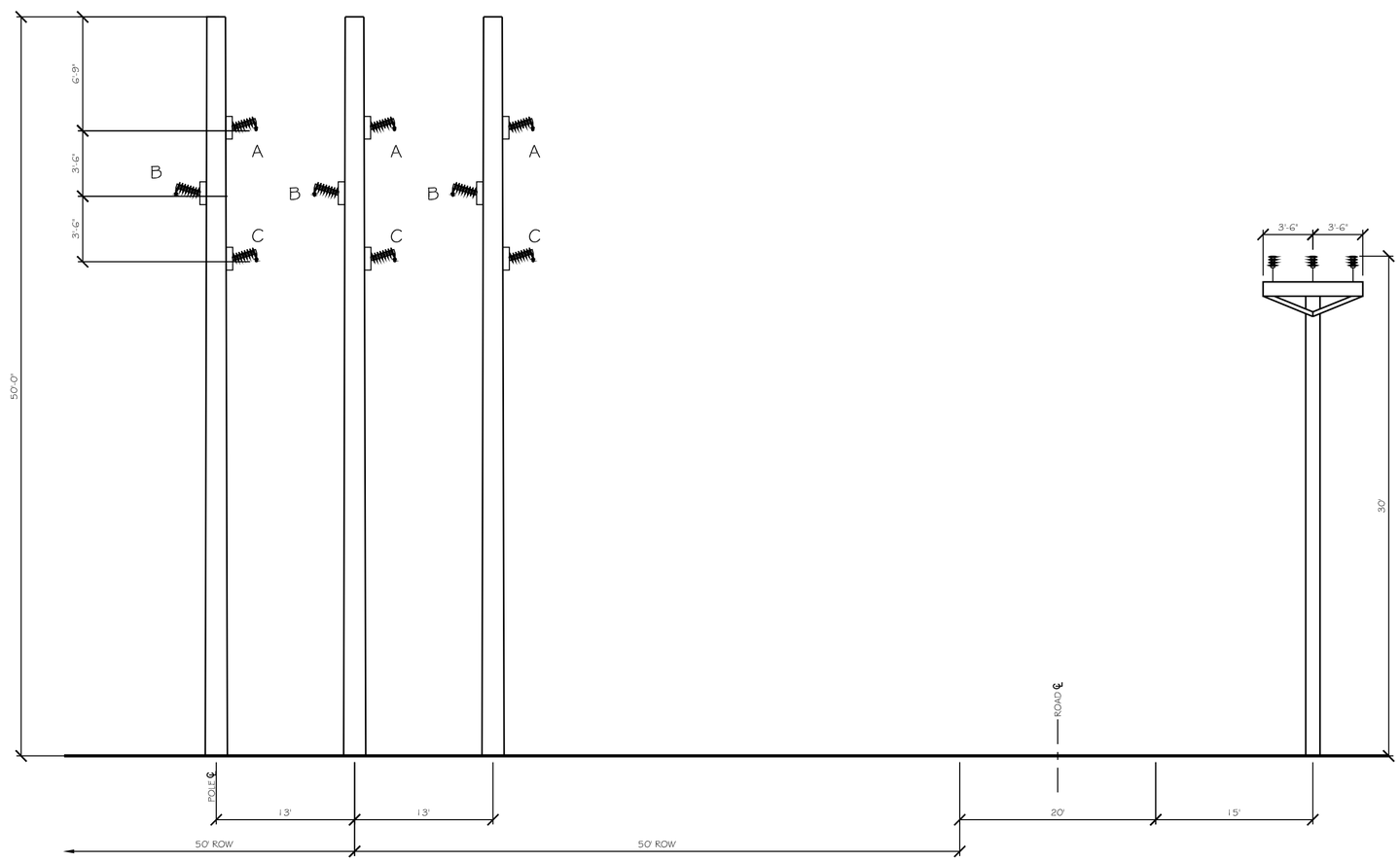
CASSADAGA WIND EMF STUDY
APPLIED HIGH VOLTAGE

PROPOSED 34.5kV COLLECTION SYSTEM
TYPICAL UNDERGROUND ARRANGEMENT

PLOT SCALE: ARCH / ENGRG 0 1 2

PROJ. NO.:	SCALE:	
AHV-15-002	NONE	
DWG. NO.:	SHEET:	REV.:
SK1	10	C



TYPICAL TRI-COLLECTION LINE
PARALLELING DSBN

REV.:	DATE:	DESCRIPTION:	DRAWN BY:	CHECKED BY:	APPROVED BY:
C	4/6/16	ISSUE TO CLIENT	SH	AC	EP

MAIN LINE
ENERGY CONSULTANTS LLC
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CASSADAGA WIND EMF STUDY
APPLIED HIGH VOLTAGE

PROPOSED 34.55kV COLLECTION SYSTEM
TYP. OVERHEAD PARALLEL EXISTING DISTR.

PLOT SCALE: ARCH / ENGRG 0 1 2

PROJ. NO.:	SCALE:	
AHV-15-002	NONE	
DWG. NO.:	SHEET:	REV.:
SK1	11	C

REV.:	DATE:	DESCRIPTION:	DRAWN BY:	CHECKED BY:	APPROVED BY:
A	4/6/16	ISSUE TO CLIENT	SH	AC	EP

MAIN LINE
ENERGY CONSULTANTS LLC
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CASSADAGA WIND EMF STUDY
APPLIED HIGH VOLTAGE

PROPOSED 115kV LAYOUT
CLOSEST RESIDENTIAL CLEARANCES

PLOT SCALE: ARCH / ENGRG 0 1 2

PROJ. NO.:	SCALE:	
AHV-15-002	NONE	
DWG. NO.:	SHEET:	REV.:
SK1	12	A