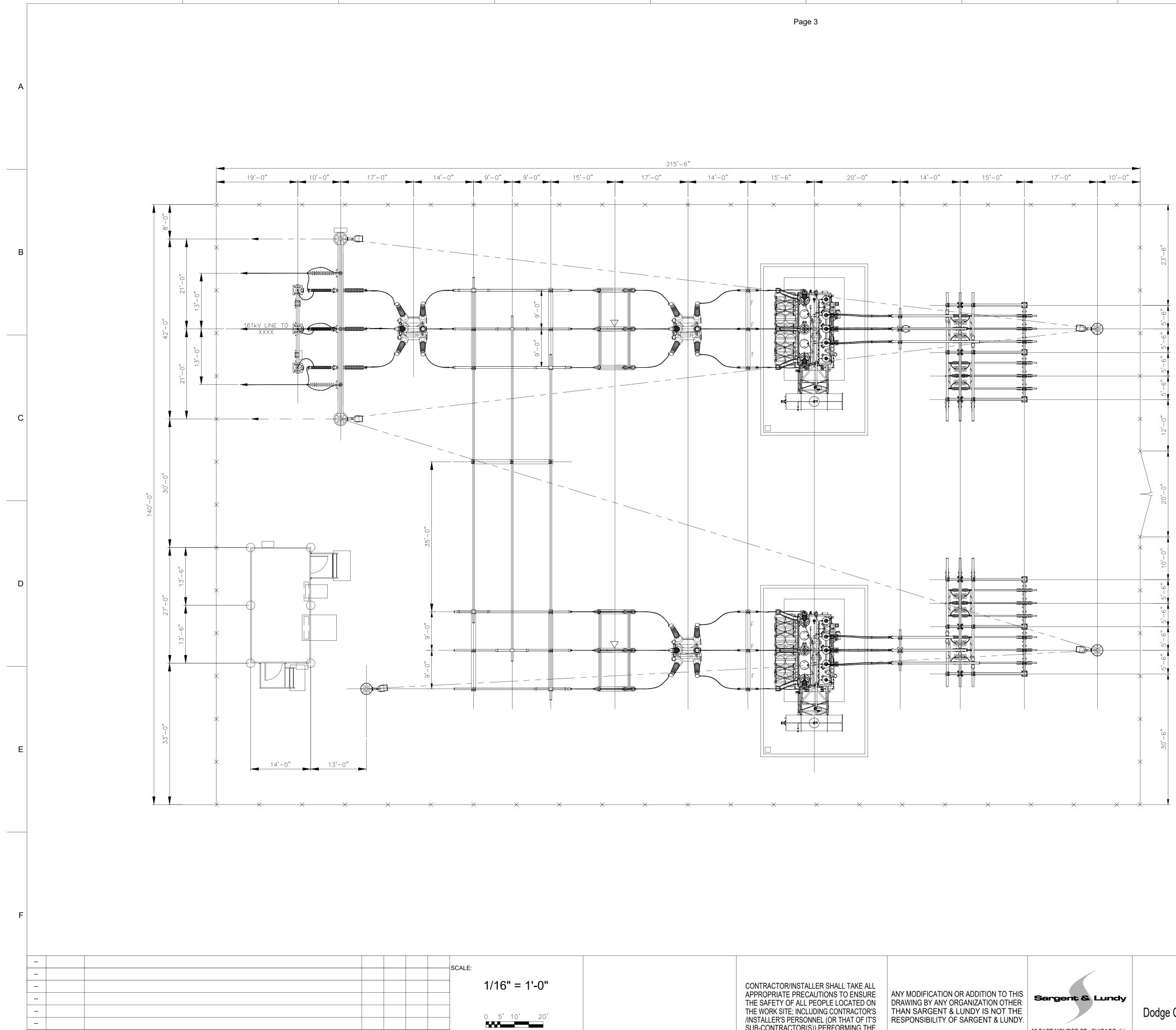
APPENDIX E – Technical Drawings

Substation Preliminary Design

161/34.5 kV Substation Ultimate Electrical Plan	Page 3
161/34.5 kV Substation Switching Diagram	Page 4
Representative Photo of Collection Substation	Page 5
Representative Photo of Collection Substation	Page 6
Representative Photo of Collection Substation	Page 7



JRD CHKD:

-

PREP:

JRD - - S&L

DRWN REV'D APPR COMP APPD:

-- |

A 7/22/2021

NO DATE

SKETCH

REVISIONS AND RECORD OF ISSUE

2

3

THE WORK SITE; INCLUDING CONTRACTOR'S /INSTALLER'S PERSONNEL (OR THAT OF IT'S SUB-CONTRACTOR(S)) PERFORMING THE WORK. 55 EAST MONROE ST., CHICAGO, ILL -DATE: 7/22/2021

7

Dodge County Wind, LLC

DODGE COUNTY WIND, LLC 161/34.5 kV SUBSTATION ULTIMATE ELECTRICAL PLAN

FOR

DRAWIN(

CONSTRUCT

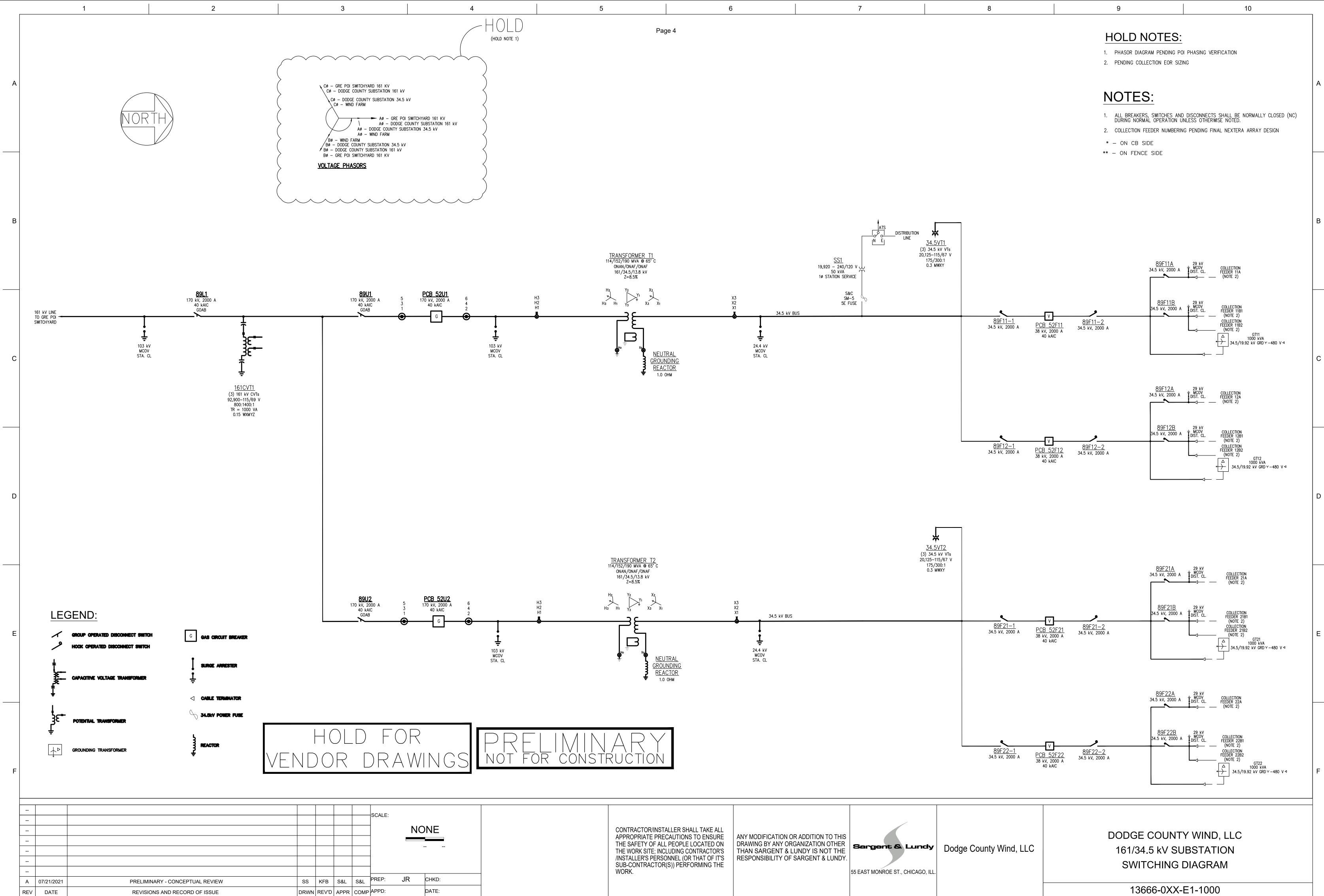
HOLD

NDOR

13666-084-E1-0100

10 ELECTRICAL CLEARANCES VOLTAGE CLASS SYSTEM DESCRIPTION OPERATING VOLTAGE 161 kV 34.5 kV 750 kV 200 kV CENTERLINE TO CENTERLINE FOR \$ TO \$ FOR RIGID BUS1 9'-0" 3-0" MINIMUM & TO GROUND¹ 4'-8" 1'-3" BOTTOM OF INSULATOR OR BUSHING PORCELAIN TO FDN. TOP^{2,3} 8'-6" 8'-6" VERTICAL CLEARANCE OF UNGUARDED LIVE PARTS TO FDN. TOP^{2,3} 12'-10" 9'-6" 15'-0" CLEARANCE FROM PERIMETER FENCE TO LIVE PARTS 11'-0" 23'-0" HIGH BUS HEIGHT, BUS CENTERLINE ABOVE FDN.⁴ N/A 14'-0" N/A LOW BUS HEIGHT, BUS CENTERLINE ABOVE FDN.4 1. IEEE C37.30.1-2011

2. IEEE 1427 3. NESC, PART 1, SECTION 12 4. NESC, PART 2, TABLE 232–1



55 EAST	MONROE ST.,	CHICAGO,

Page 5

Representative Photo of Collection Substation



Exact configuration or technology may vary from the representative photo.

Page 6

Representative Photo of Collection Substation



Exact configuration or technology may vary from the representative photo.

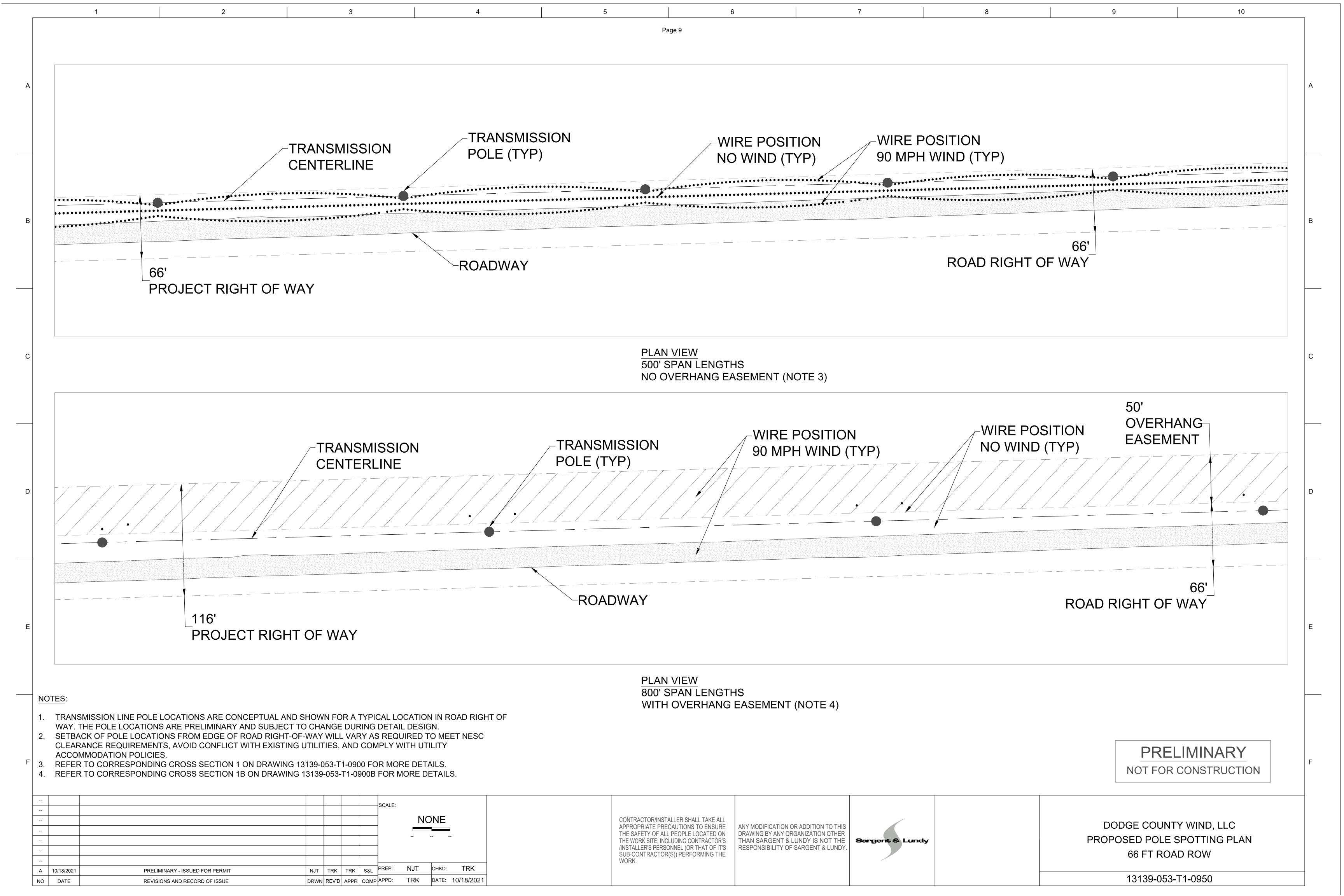
Page 7 Representative Photo of Collection Substation

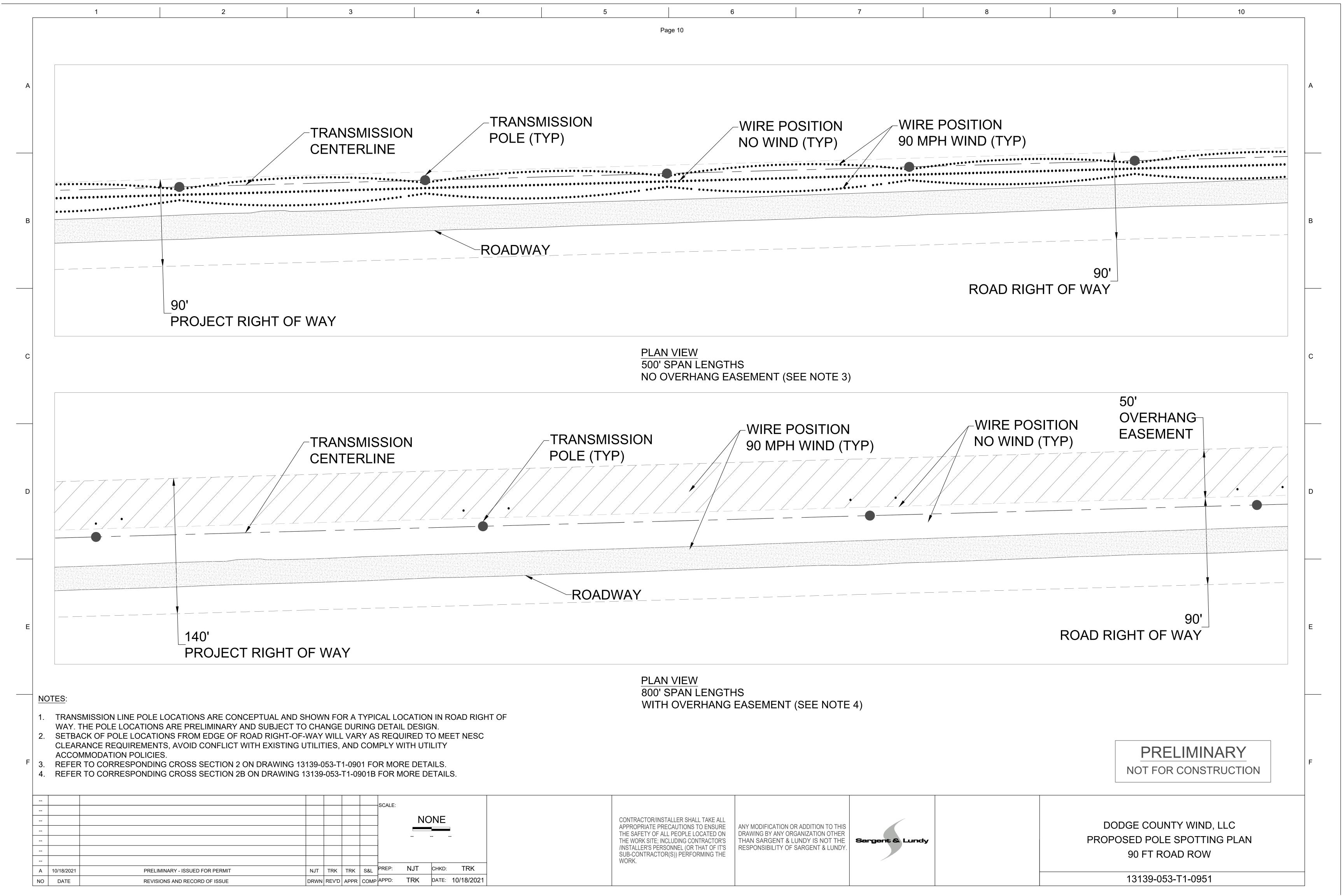


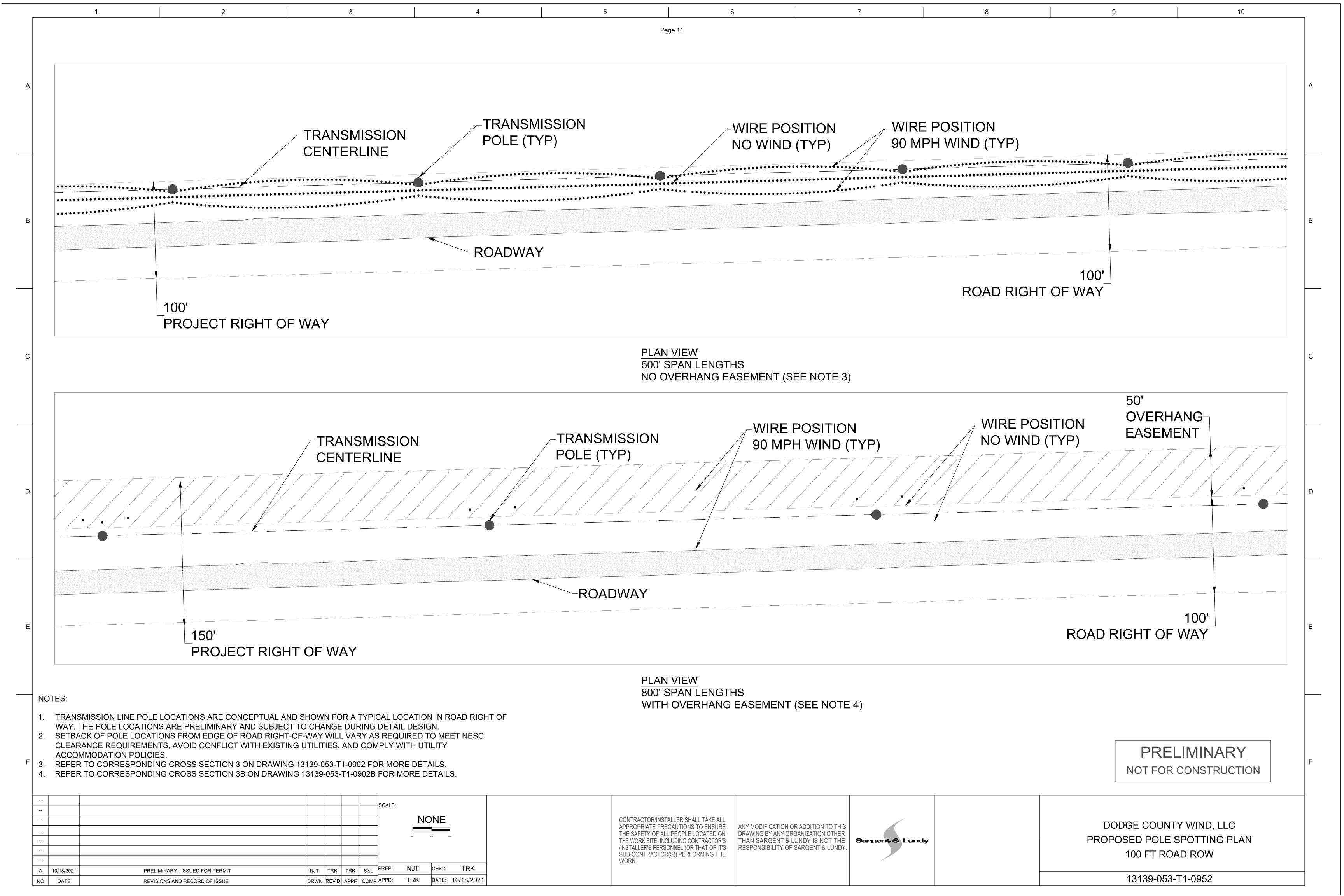
Exact configuration or technology may vary from the representative photo.

Pole Spotting Plans

Proposed Pole Spotting Plan – 66 Ft Road ROW	Page 9
Proposed Pole Spotting Plan – 90 Ft Road ROW	Page 10
Proposed Pole Spotting Plan – 100 Ft Road ROW	Page 11

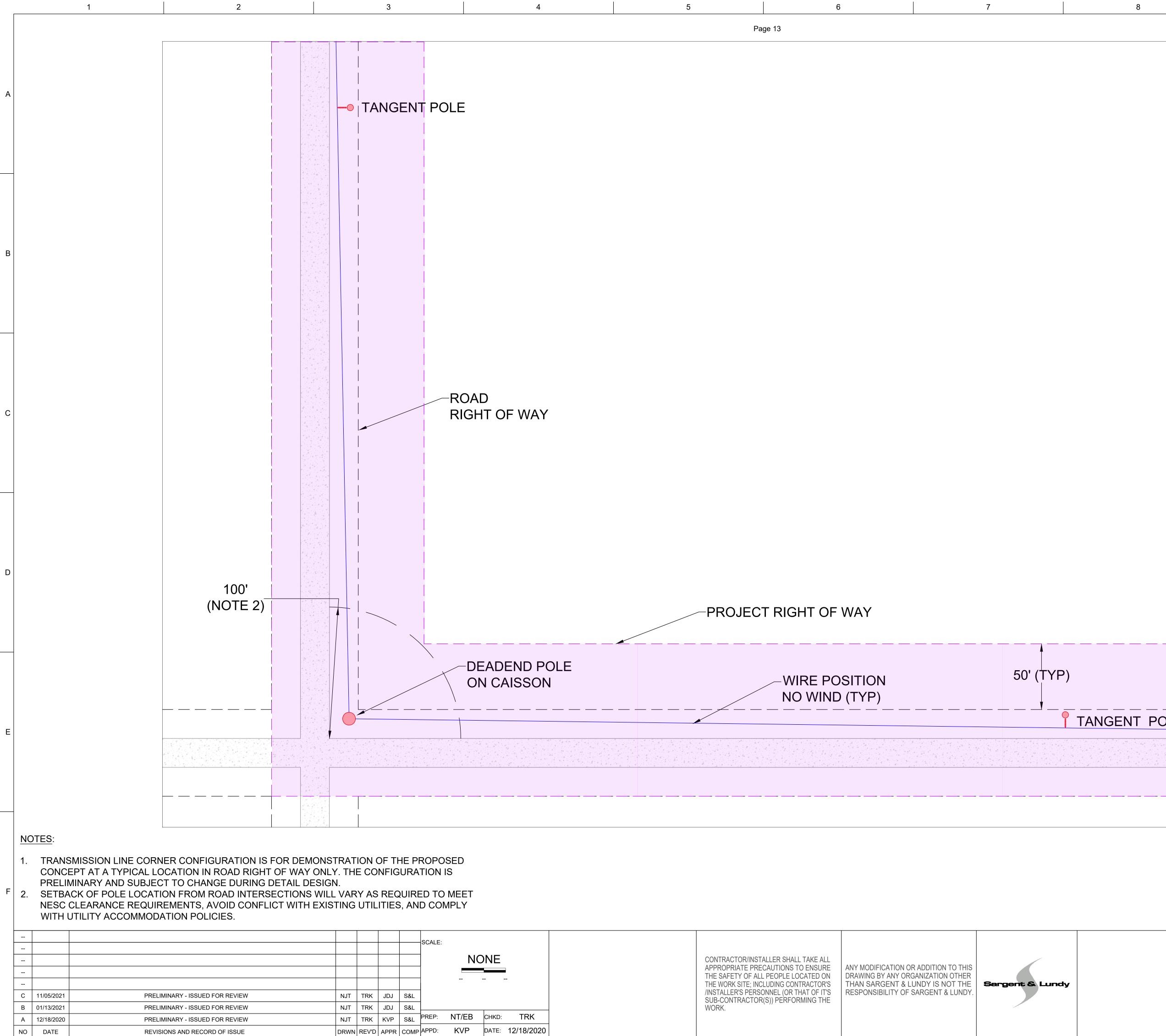






Corner Configurations and Project Right-of-Way

Proposed Corner Configuration: Single Deadend – Road ROW	.Page 13
Proposed Corner Configuration: Single Deadend – Road ROW T-Intersection	.Page 14
Proposed Corner Configuration: Double Deadend – Road ROW	Page 15
Proposed Corner Configuration: Flying Tap – Road ROW	Page 16
Proposed Corner Configuration: Composite Project ROW	Page 17
Conceptual Corridor: Project Right Of Way	Page 18
Conceptual Corridor: Design Completion Right Of Way	Page 19



FRK 8/2020	CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE; INCLUDING CONTRACTOR'S /INSTALLER'S PERSONNEL (OR THAT OF IT'S SUB-CONTRACTOR(S)) PERFORMING THE WORK.	ANY MODIFICATION OR ADDITION TO THIS DRAWING BY ANY ORGANIZATION OTHER THAN SARGENT & LUNDY IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.	Sargent & Lundy

TANGENT POLE

8

PRELIMINARY

10

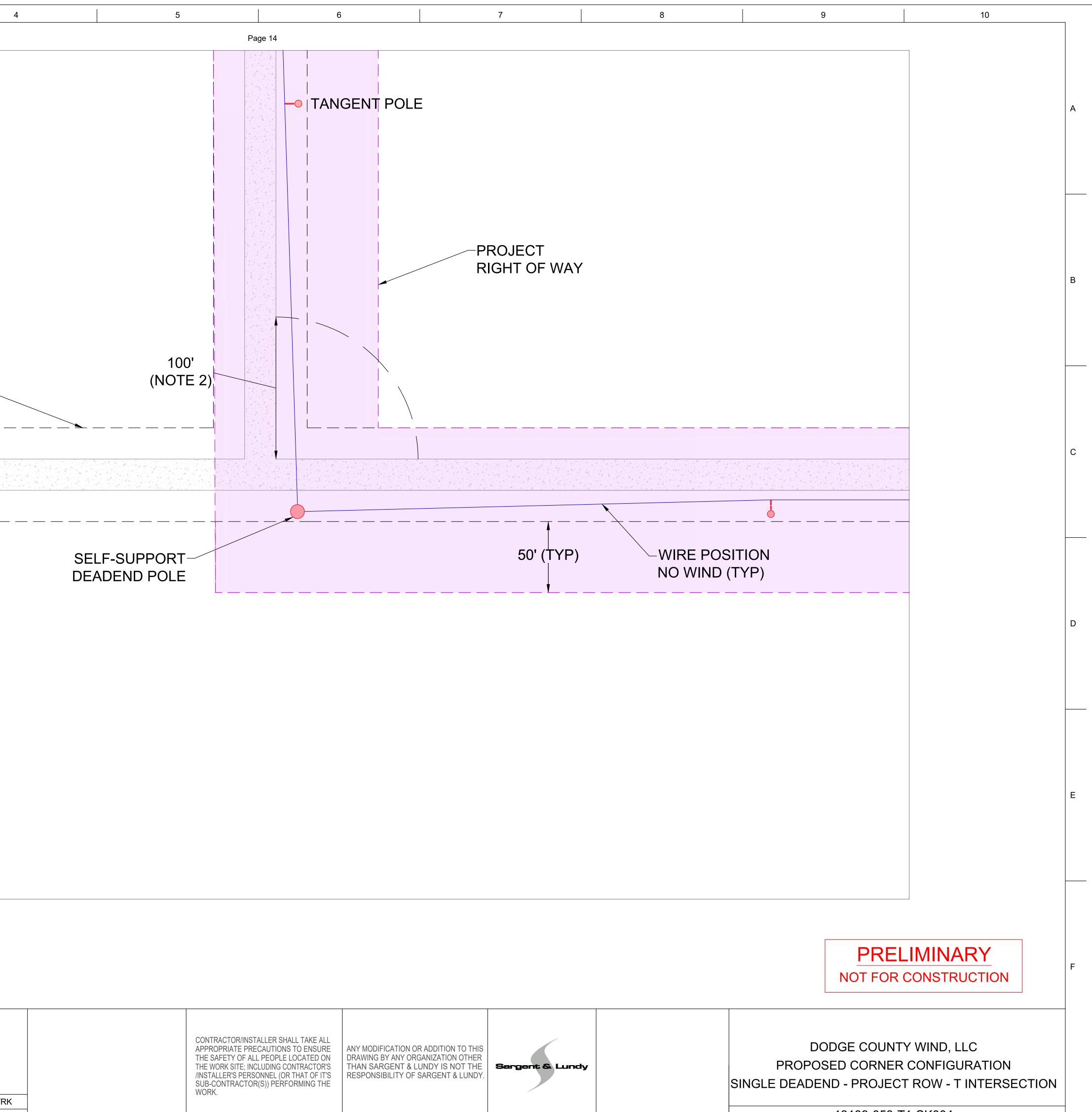
9

NOT FOR CONSTRUCTION

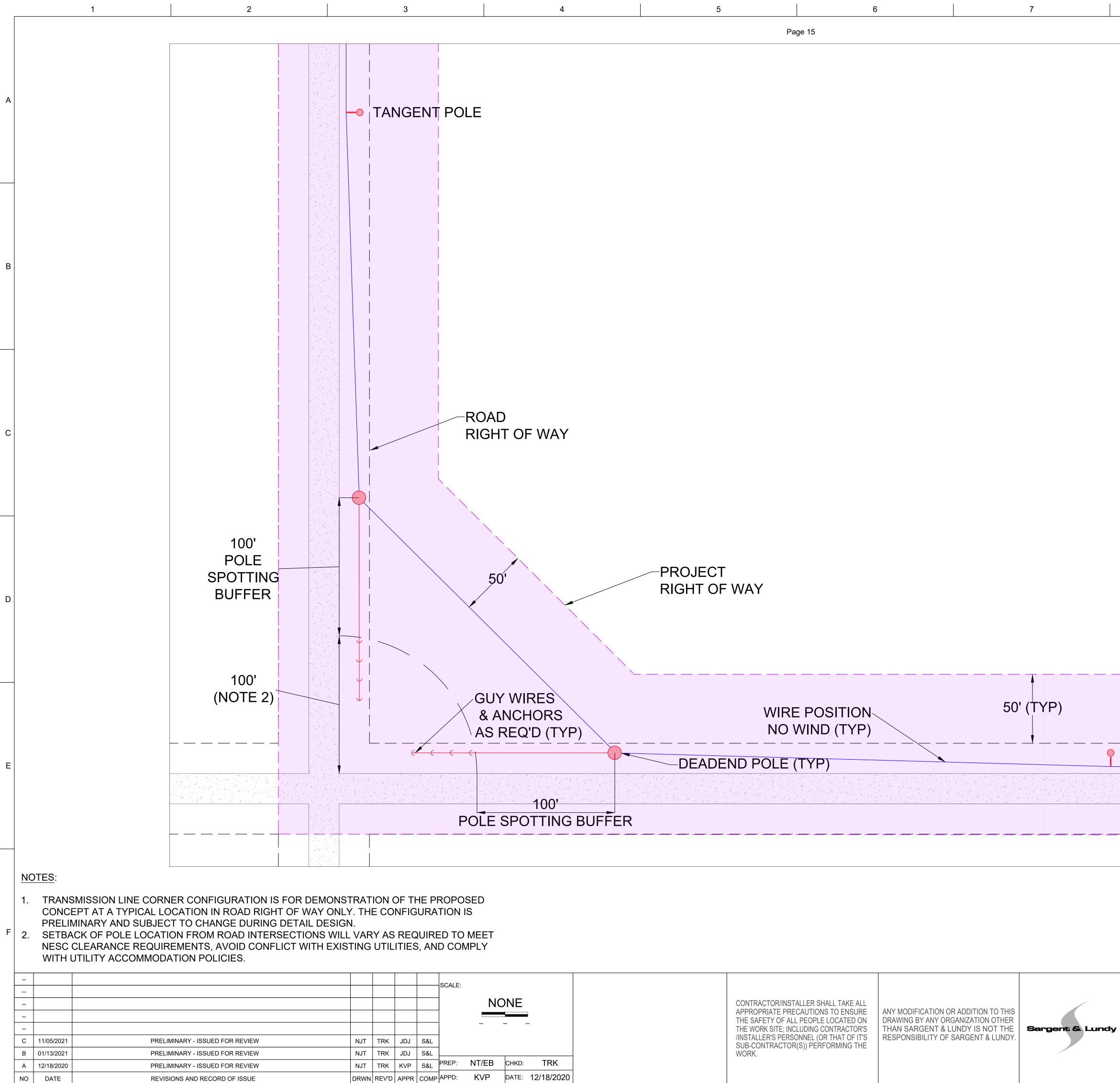
DODGE COUNTY WIND, LLC PROPOSED CORNER CONFIGURATION SINGLE DEADEND - PROJECT ROW

13139-053-T1-SK001

	1	2	3	4	5		6	7
						Page 14		
A							IGENT POLE	
В					100' (NOTE 2)			ROJECT RIGHT OF WAY
			RIGHT C	ROAD OF WAY				
					``		\ \	
С								
					SELF-SUPPORT			50' (TYP)
					DEADEND POLE			
								<u> _</u>
D								
E								
	NOTES:							
F	CONCEPT AT A TYPICAL PRELIMINARY AND SUBJI 2. SETBACK OF POLE LOCA	RNER CONFIGURATION IS FOR DEMONS LOCATION IN ROAD RIGHT OF WAY ONLY ECT TO CHANGE DURING DETAIL DESIGN TION FROM ROAD INTERSECTIONS WILL IREMENTS, AVOID CONFLICT WITH EXIS DATION POLICIES.	Y. THE CONFIGURATION IS N. _ VARY AS REQUIRED TO MEI	ET				
	 		SCALE:					
					APPR	RACTOR/INSTALLER SHALL TAKE ALL OPRIATE PRECAUTIONS TO ENSURE AFETY OF ALL PEOPLE LOCATED ON	ANY MODIFICATION OR ADDITION TO THIS DRAWING BY ANY ORGANIZATION OTHER	
	 				THE V	ORK SITE; INCLUDING CONTRACTOR'S ALLER'S PERSONNEL (OR THAT OF IT'S CONTRACTOR(S)) PERFORMING THE K.	THAN SARGENT & LUNDY IS NOT THE	Sargent & Lundy
	A 01/14/2021 PR	ELIMINARY - ISSUED FOR REVIEW ELIMINARY - ISSUED FOR REVIEW	NJT TRK JDJ S&L NJT TRK JDJ S&L PREP: NT/		WOR	ζ.,		
	NO DATE RE	VISIONS AND RECORD OF ISSUE	DRWN REV'D APPR COMP APPD: JC	DJ DATE: 01/14/2021				



13139-053-T1-SK004



ГRК 8/2020	CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE; INCLUDING CONTRACTOR'S /INSTALLER'S PERSONNEL (OR THAT OF IT'S SUB-CONTRACTOR(S)) PERFORMING THE WORK.	ANY MODIFICATION OR ADDITION TO THIS DRAWING BY ANY ORGANIZATION OTHER THAN SARGENT & LUNDY IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.	Sargent & Lundy

TANGENT POLE

PRELIMINARY

10

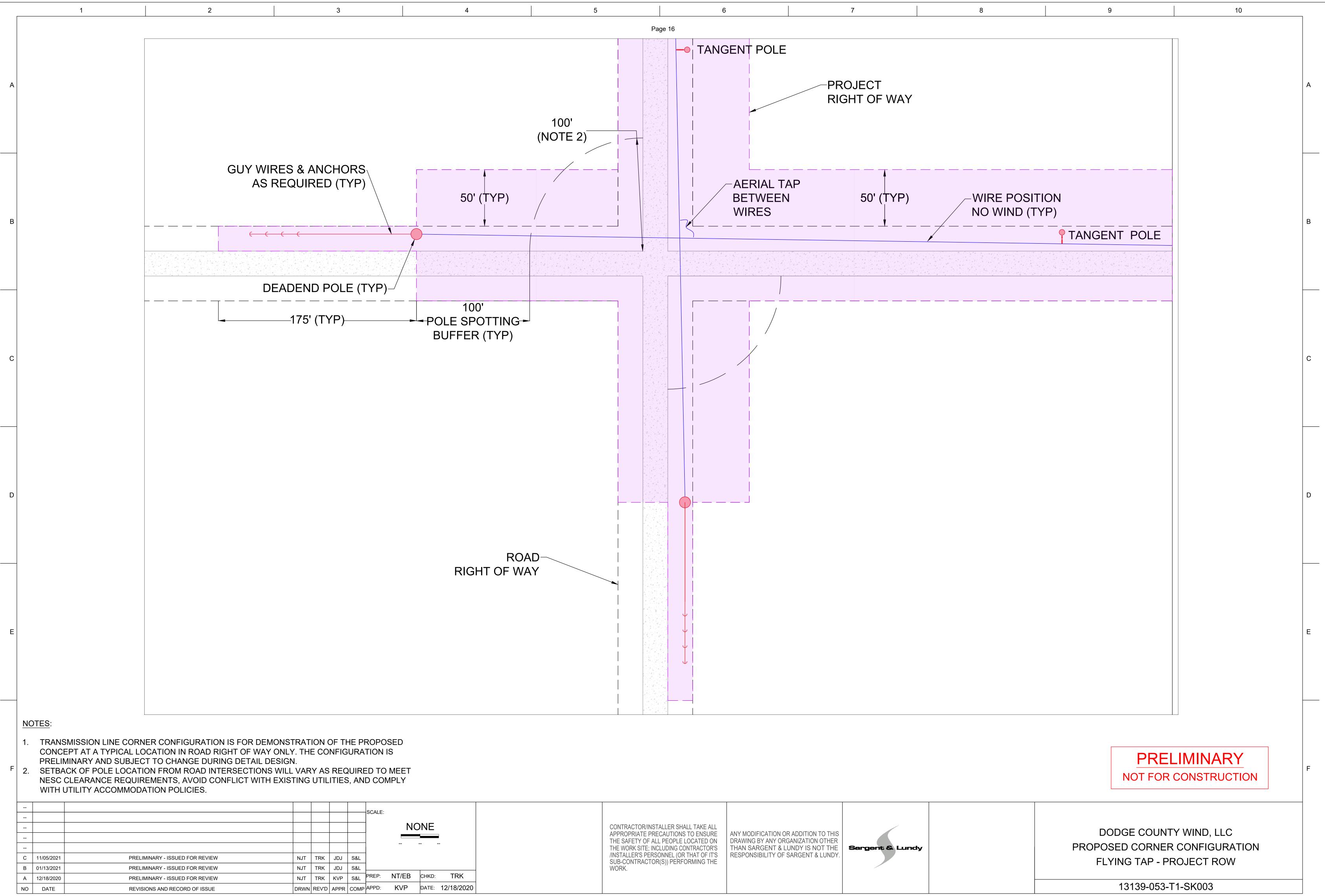
9

8

NOT FOR CONSTRUCTION

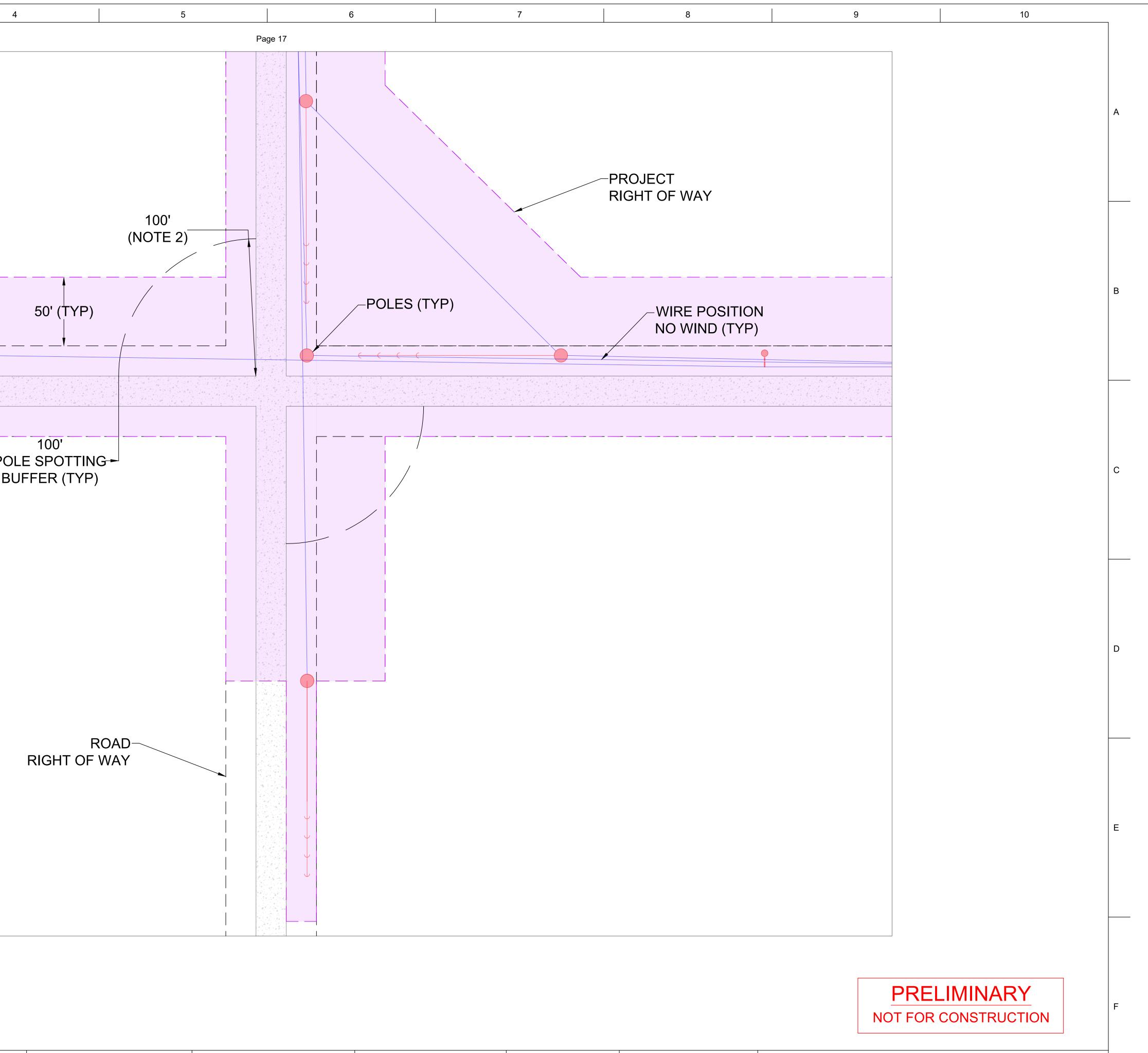
DODGE COUNTY WIND, LLC PROPOSED CORNER CONFIGURATION DOUBLE DEADEND - PROJECT ROW

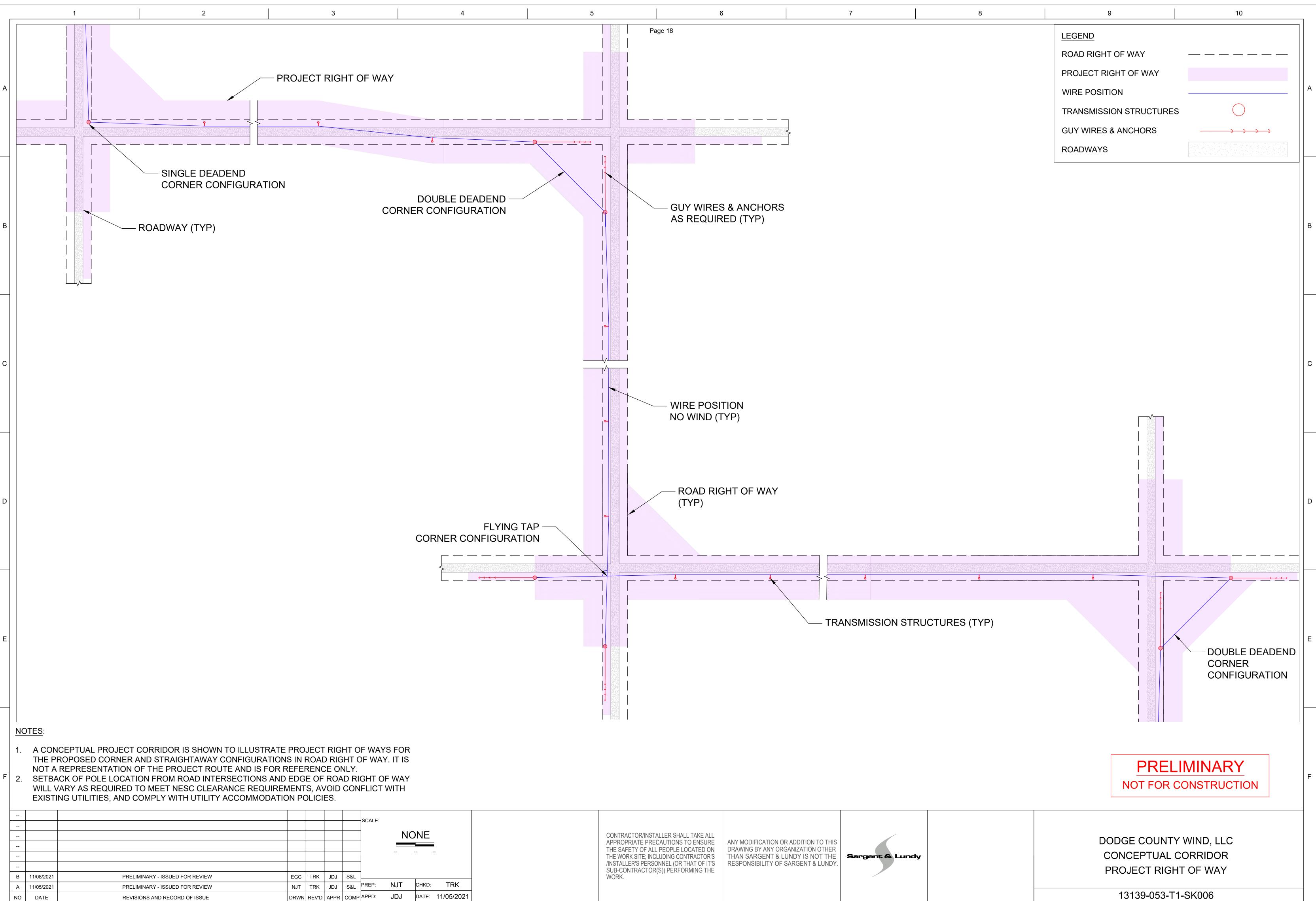
13139-053-T1-SK002

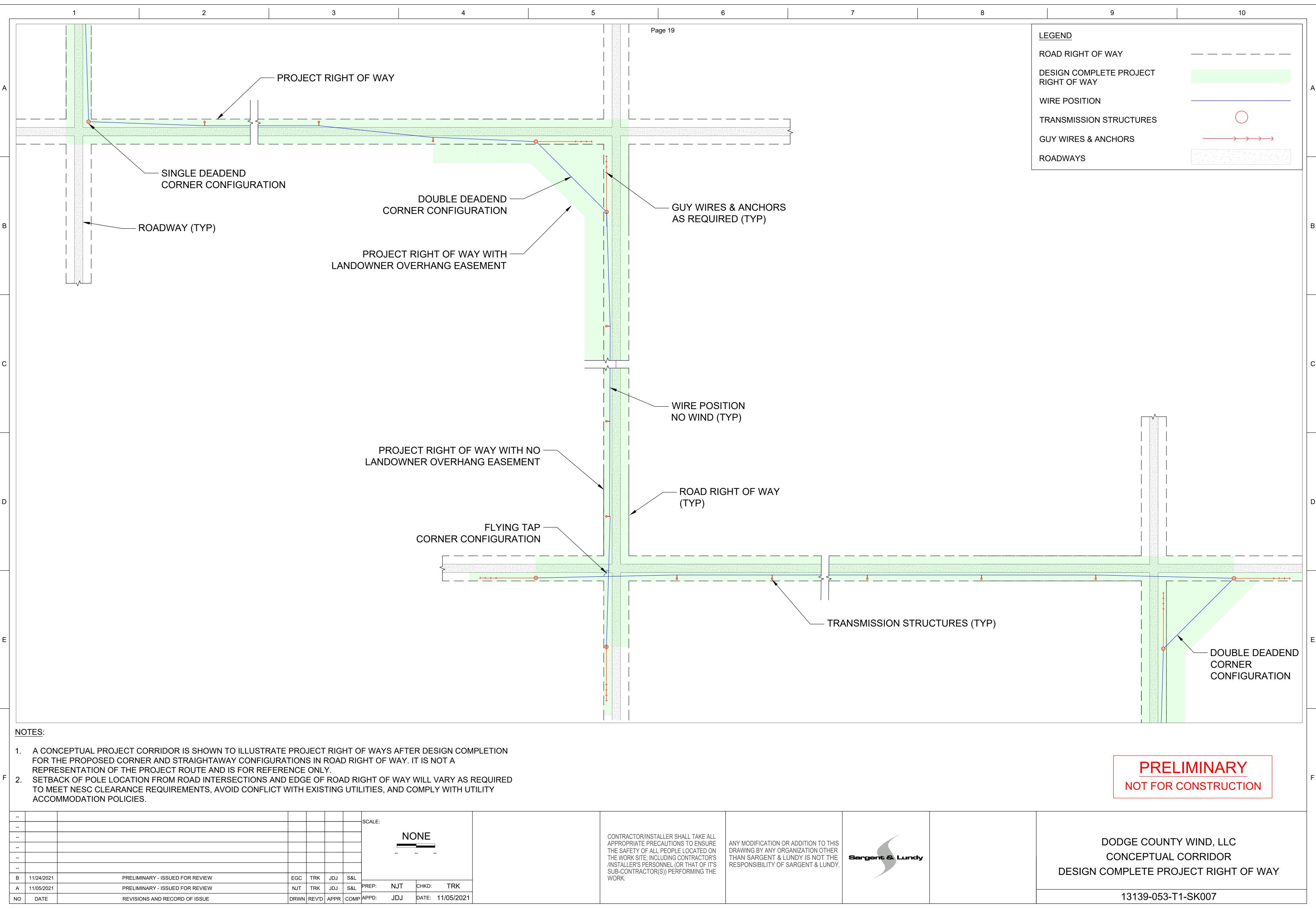


RK 3/2020	CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE; INCLUDING CONTRACTOR'S /INSTALLER'S PERSONNEL (OR THAT OF IT'S SUB-CONTRACTOR(S)) PERFORMING THE WORK.	ANY MODIFICATION OR ADDITION TO THIS DRAWING BY ANY ORGANIZATION OTHER THAN SARGENT & LUNDY IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.	Sargent & Lundy

1		4	5 Page 17	6	7 8 PROJECT RIGHT OF WAY	9 10
	GUY WIRES & ANCHORS AS REQUIRED (TYP)	(NOTE 50' (TYP)	E 2)	-POLES (TYP)	-WIRE POSITION NO WIND (TYP)	
		100' - POLE SPOTTING- BUFFER (TYP)				
		ROAD RIGHT OF WAY				
FOR ALL THE PROPOSED CORNER CO	VAY IS SHOWN COMBINING THE PROJECT RIGHT OF WAYS CONFIGURATIONS IN ROAD RIGHT OF WAY. I ROAD INTERSECTIONS WILL VARY AS REQUIRED TO MEET AVOID CONFLICT WITH EXISTING UTILITIES, AND COMPLY LICIES.					PRELIMINARY NOT FOR CONSTRUCTION
			CONTRACTOR/INSTALLER SHALL TAKE AL APPROPRIATE PRECAUTIONS TO ENSUR THE SAFETY OF ALL PEOPLE LOCATED O THE WORK SITE; INCLUDING CONTRACTOR' /INSTALLER'S PERSONNEL (OR THAT OF IT' SUB-CONTRACTOR(S)) PERFORMING TH WORK.	ANY MODIFICATION OR ADDITION TO THIS DRAWING BY ANY ORGANIZATION OTHER THAN SARGENT & LUNDY IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY	Sargent & Lundy	DODGE COUNTY WIND, LLC PROPOSED CORNER CONFIGURATION COMPOSITE PROJECT ROW 13139-053-T1-SK005









Page 20

<u>Right-of-Way Typicals</u>

Proposed Cross Section – Road ROW: Typical Cross Section #1Page 21
Proposed Cross Section – Road ROW: Typical Cross Section #1APage 22
Proposed Cross Section – Road ROW: Typical Cross Section #1BPage 23
Proposed Cross Section – Road ROW: Typical Cross Section #2Page 24
Proposed Cross Section – Road ROW: Typical Cross Section #2APage 25
Proposed Cross Section – Road ROW: Typical Cross Section #28Page 26
Proposed Cross Section – Road ROW: Typical Cross Section #3Page 27
Proposed Cross Section – Road ROW: Typical Cross Section #3APage 28
Proposed Cross Section – Road ROW: Typical Cross Section #38Page 29
Proposed Cross Section – Transmission ROW: Typical Cross Section #6Page 30
Proposed Cross Section – Road ROW: Typical Cross Section #5Page 31

NOTES:

1

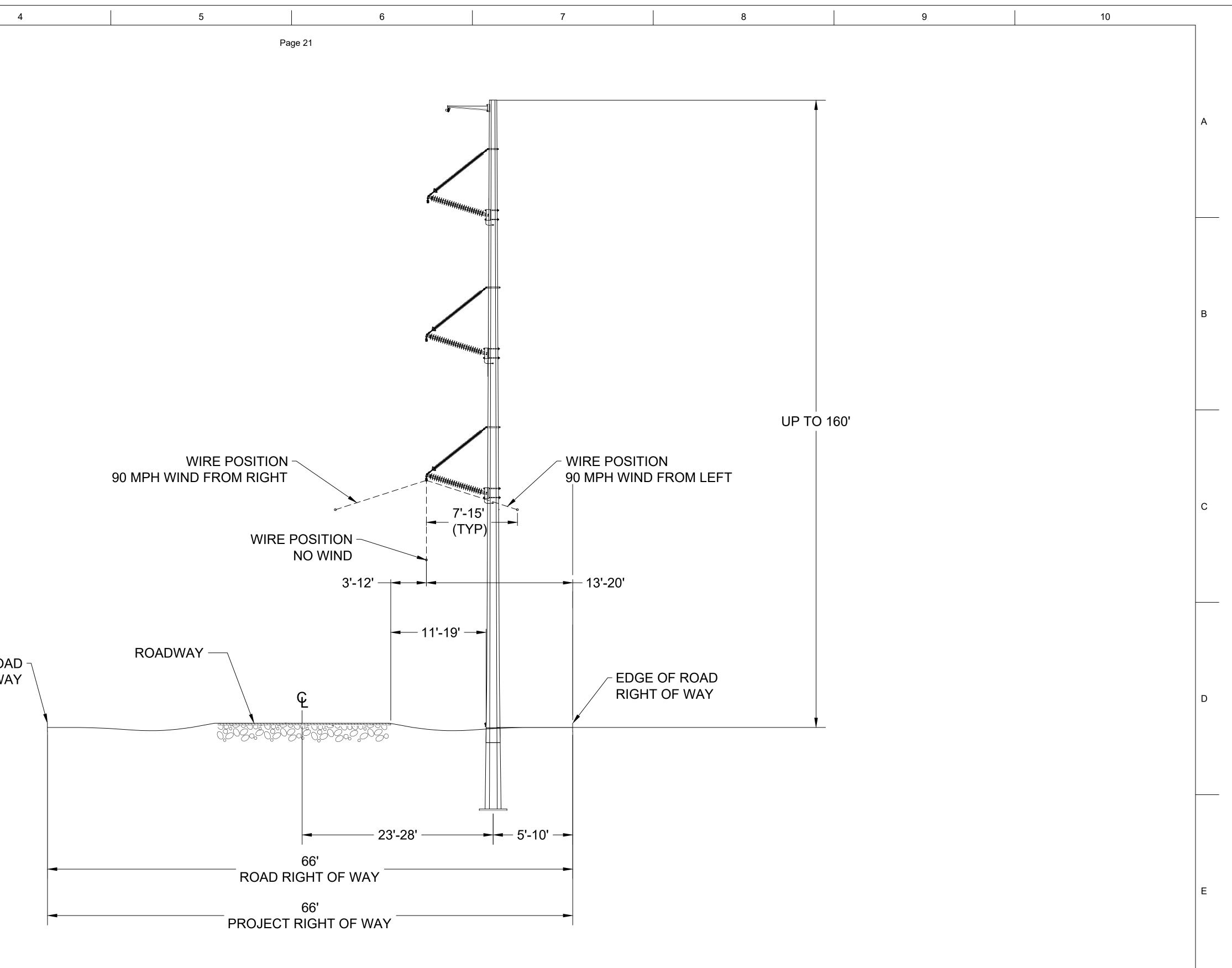
2

3

1. CROSS SECTION OF PROPOSED STRUCTURE LOCATED IN ROAD ROW SHOWS TYPICAL STRUCTURE AT MAXIMUM SETBACK (10') FROM THE EDGE OF ROAD ROW. STRUCTURE CONFIGURATIONS AND HEIGHTS MAY VARY ALONG RIGHT-OF-WAY.

2. ALL DIMENSIONS ARE PRELIMINARY AND SUBJECT TO CHANGE DURING DETAIL DESIGN.

							SCALE:			
								NC	DNE	
D	10/18/2021	PRELIMINARY - ISSUED FOR PERMIT	NJT	TRK	TRK	S&L				•
С	10/07/2021	PRELIMINARY - ISSUED FOR PERMIT	NJT	TRK	TRK	S&L				
В	04/19/2021	PRELIMINARY - ISSUED FOR PERMIT	DIV	TRK	JDJ	S&L				
A	12/14/2020	PRELIMINARY - ISSUED FOR REVIEW	NJT	TRK	KVP	S&L	PREP:	NT/EB	CHKD:	TF
NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP	APPD:	KVP	DATE:	12/14
-			-			-				



RK /2020	CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE; INCLUDING CONTRACTOR'S /INSTALLER'S PERSONNEL (OR THAT OF IT'S SUB-CONTRACTOR(S)) PERFORMING THE WORK.	ANY MODIFICATION OR ADDITION TO THIS DRAWING BY ANY ORGANIZATION OTHER THAN SARGENT & LUNDY IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.	Sargent & Lundy

PRELIMINARY

NOT FOR CONSTRUCTION

DODGE COUNTY WIND, LLC PROPOSED CROSS SECTION - ROAD ROW TYPICAL CROSS SECTION #1

13139-053-T1-0900

c							
D		EDG RIG					ROA
E							
F	NOTES: 1. CROSS SECTION OF PROPOSED STRUCTURE LOCATED IN ROAD STRUCTURE AT MINIMUM SETBACK (2') FROM THE EDGE OF ROAD CONFIGURATIONS AND HEIGHTS MAY VARY ALONG RIGHT-OF-W 2. ALL DIMENSIONS ARE PRELIMINARY AND SUBJECT TO CHANGE	AD RO /AY.	OW. S	STRU	CTUI L DE	RE	

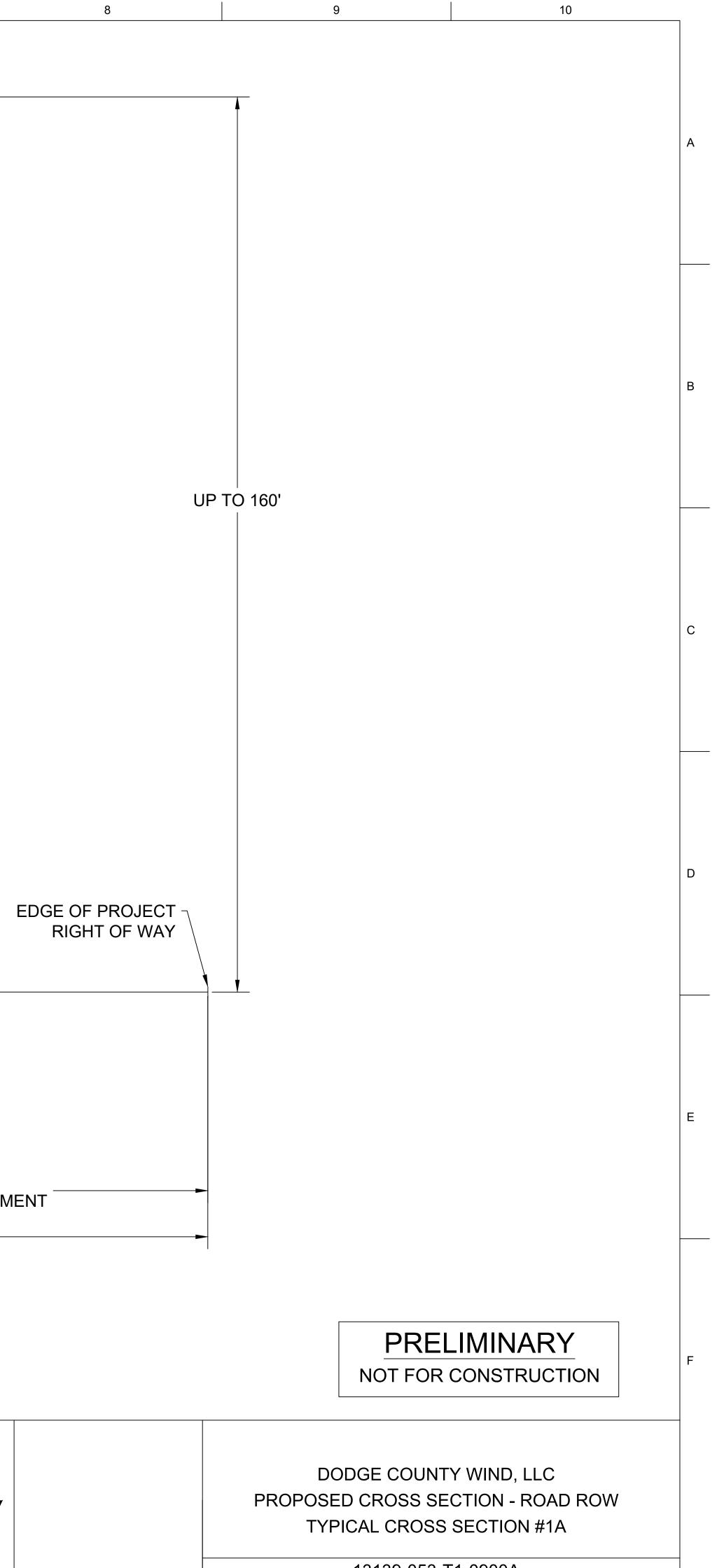
2

3

							SCALE:			
							00/122			
								NC	NE	
В	10/18/2021	PRELIMINARY - ISSUED FOR PERMIT	NJT	TRK	TRK	S&L				
Α	10/07/2021	PRELIMINARY - ISSUED FOR PERMIT	NJT	TRK	TRK	S&L	PREP:	NJT	CHKD:	TF
NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP	APPD:	TRK	DATE:	10/07

4	5		6		7	
		Page 22				
			A Martine Martine			
					POSITION	
9	0 MPH WIND FROM RIGHT	\			H WIND FROM I	_EFT
	°			20'-30'		
				(TYP)		
	WIRE POSI NO V					
		 8'-15'►		-		
			<u>2'</u>			
ADWA	4Y —					
					FROAD	
				RIGHT C	DF WAY	
	0.00.00.00.00.00.00.00.00.00.00.00.00.0	5		¥		
	0.00.2020.00.2060.00.2020.00.20)				
			<u>_ _ </u>	_		
		— 28'-31' ——		- 2'-5'		
	66'					0'
	ROAD RIGHT OF WAY				OVERHANG	EASEM
		F	116 ROJECT RIG			
		I		🗸 🗤 🗤		

	CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE; INCLUDING CONTRACTOR'S /INSTALLER'S PERSONNEL (OR THAT OF IT'S SUB-CONTRACTOR(S)) PERFORMING THE WORK.	ANY MODIFICATION OR ADDITION TO THIS DRAWING BY ANY ORGANIZATION OTHER THAN SARGENT & LUNDY IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.	Sargent & Lundy
TRK			
07/2021			

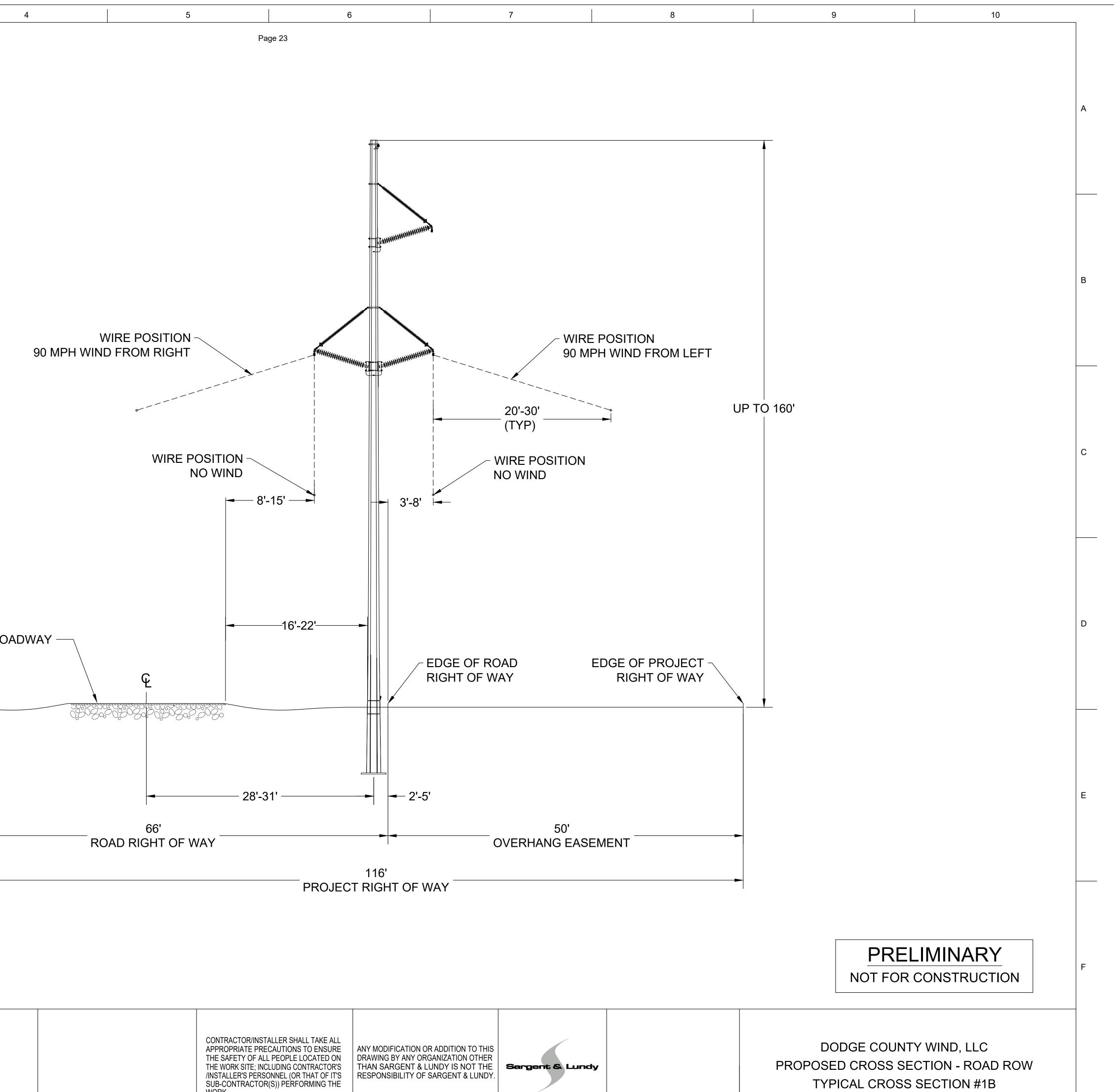


13139-053-T1-0900A

С		
D	EDGE OF ROAD RIGHT OF WAY	804
E		
F	 <u>NOTES</u>: CROSS SECTION OF PROPOSED STRUCTURE LOCATED IN ROAD ROW SHOWS TYPICAL STRUCTURE AT MINIMUM SETBACK (2') FROM THE EDGE OF ROAD ROW. STRUCTURE CONFIGURATIONS AND HEIGHTS MAY VARY ALONG RIGHT-OF-WAY. ALL DIMENSIONS ARE PRELIMINARY AND SUBJECT TO CHANGE DURING DETAIL DESIGN. 	
	Image: Scale in the state in t	

							SCALE:			
								NC	DNE	
										2
В	10/18/2021	PRELIMINARY - ISSUED FOR PERMIT	NJT	TRK	TRK	S&L				
A	10/07/2021	PRELIMINARY - ISSUED FOR PERMIT	NJT	TRK	TRK	S&L	PREP:	NJT	CHKD:	
NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP	APPD:	TRK	DATE:	10/0

WIRE POSITION - 90 MPH WIND FROM RIGHT			- WIRE PO 90 MPH
o			20'-30'
	OSITION IO WIND 	3'-8'	WIRE POSITION NO WIND
<u> </u>		EDGE OF R RIGHT OF V	
66' ROAD RIGHT OF W	28'-31' /AY		50' OVERHANG EASEMI
		116' T RIGHT OF WAY	
TRK 07/2021	CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE; INCLUDING CONTRACTOR'S /INSTALLER'S PERSONNEL (OR THAT OF IT'S SUB-CONTRACTOR(S)) PERFORMING THE WORK.	ANY MODIFICATION OR ADDITION TO THIS DRAWING BY ANY ORGANIZATION OTHER THAN SARGENT & LUNDY IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY	Sargent & Lundy

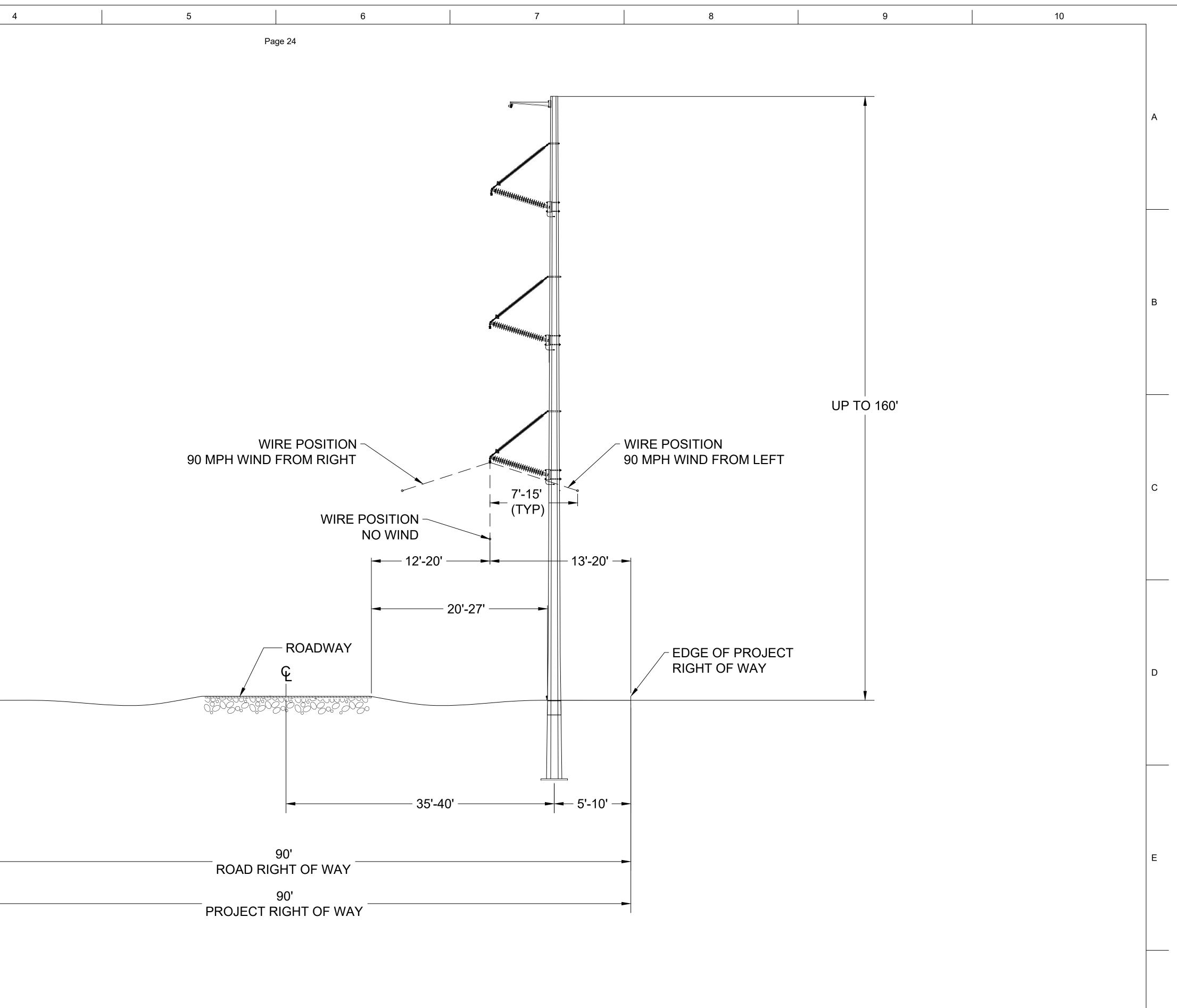


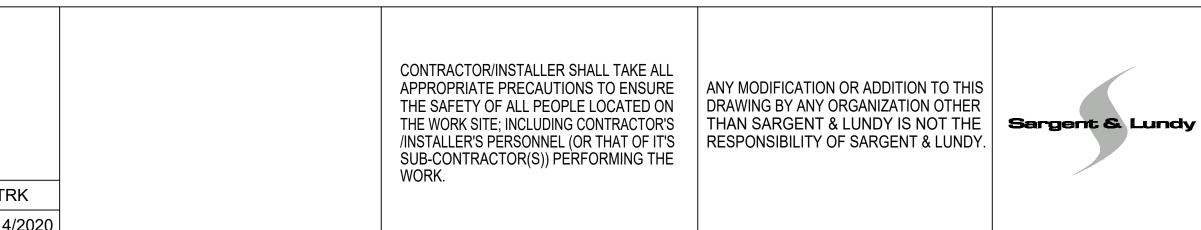
13139-053-T1-0900B

A														
В														
С														
D											roae F way	1		
E														
F	<u>NO</u> 1. 2.	STRUC CONFI	S SECTION OF PROP TURE AT MAXIMUM GURATIONS AND HI MENSIONS ARE PRI	I SETBACK (10 EIGHTS MAY V	') FROM THE 'ARY ALONG	EDGE OF RO	AD R AY.	ROW.	STR	UCTI	JRE			
												N	ONE	
-	 C	10/18/2021		LIMINARY - ISSUED FO				TOU	TRK	0.01	•			
ŀ	B	04/19/2021		LIMINARY - ISSUED FO			DIV DIV	TRK TRK	JDJ	S&L S&L	 			
ļ	А	12/14/2020		-IMINARY - ISSUED FO			NJT	TRK	KVP			NT/EB		TRK
	NO	DATE	REV	SIONS AND RECORD	OF ISSUE		DRWN	REV'D	APPR	COMP	APPD:	KVP	DATE:	12/14/2020

3

1



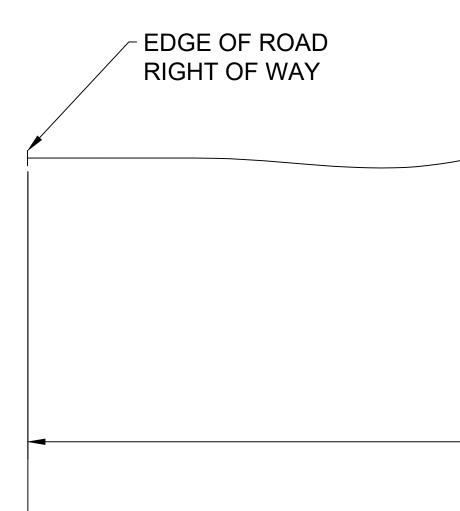


PRELIMINARY NOT FOR CONSTRUCTION

DODGE COUNTY WIND, LLC PROPOSED CROSS SECTION - ROAD ROW TYPICAL CROSS SECTION #2

13139-053-T1-0901

							SCALE:			
							OUALL.			
								N	ONE	
А	10/18/2021	PRELIMINARY - ISSUED FOR PERMIT	DIV	TRK	TRK	S&L	PREP:	DIV	CHKD:	Т
NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP	APPD:	TRK	DATE:	10/18



2

NOTES:

F

1

1. CROSS SECTION OF PROPOSED STRUCTURE LOCATED IN ROAD ROW SHOWS TYPICAL STRUCTURE AT MINIMUM SETBACK (2') FROM THE EDGE OF ROAD ROW. STRUCTURE CONFIGURATIONS AND HEIGHTS MAY VARY ALONG RIGHT-OF-WAY.

2. ALL DIMENSIONS ARE PRELIMINARY AND SUBJECT TO CHANGE DURING DETAIL DESIGN.

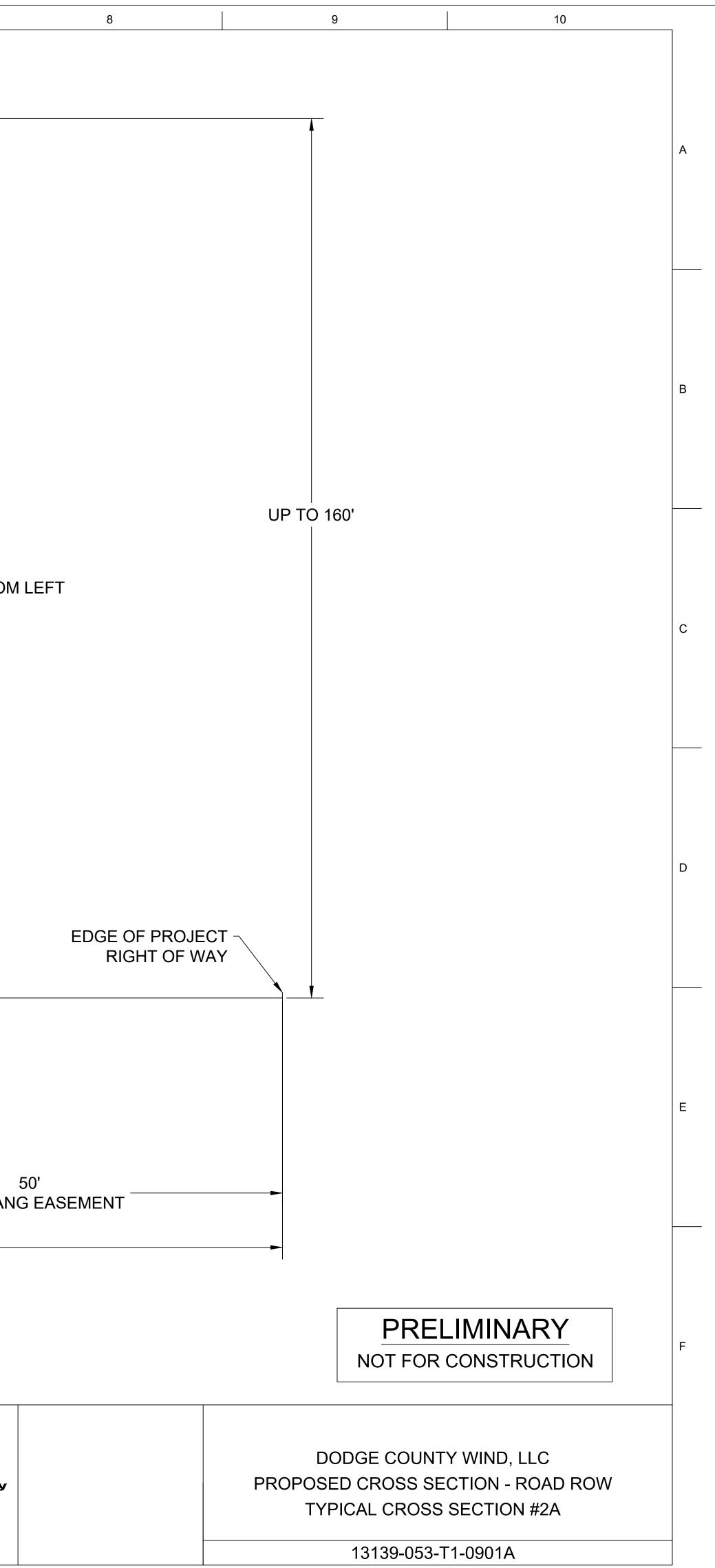
WIRE P 90 MPH WIND FROI	OSITION -			/IRE POSITION D MPH WIND FROM
			J. St	
9			20'-30' (TYP)	
	WIRE POSITION			
	- 17'-23' —	→ 10'-15'	-	
				GE OF ROAD HT OF WAY
			3	
-	40'-43'		- − 2'-5'	
90' ROAD RIGHT OF WAY	140'			OVERHAN
	PROJECT RIGHT OF	WAY		
	CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE; INCLUDING CONTRACTOR'S /INSTALLER'S PERSONNEL (OR THAT OF IT'S SUB-CONTRACTOR(S)) PERFORMING THE	ANY MODIFICATION OR A DRAWING BY ANY ORGAI THAN SARGENT & LUN RESPONSIBILITY OF SA	NIZATION OTHER	Sargent & Lundy
TRK 18/2021	WORK.			
		I	I	

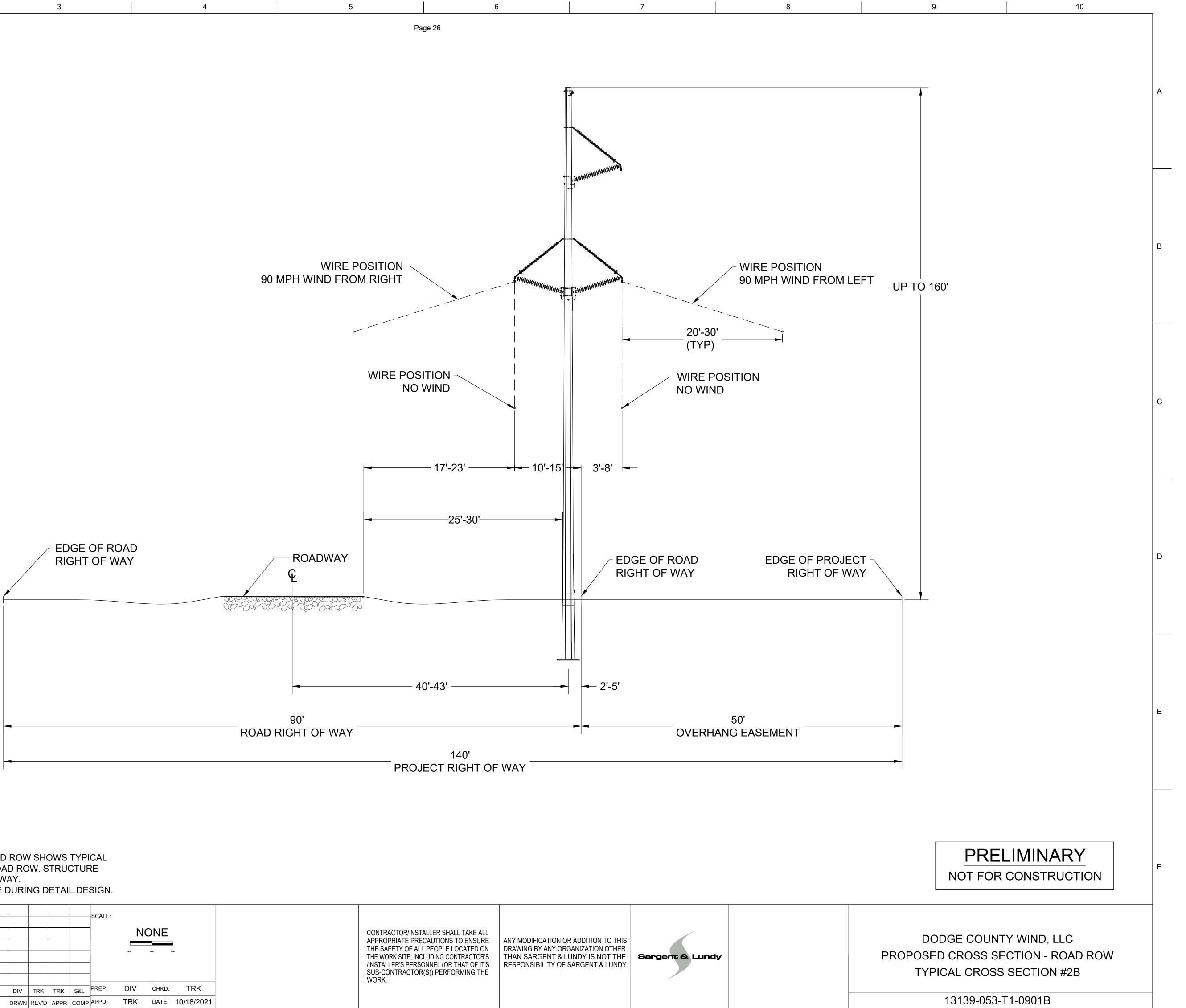
5

4

6

Page 25





NOTES:

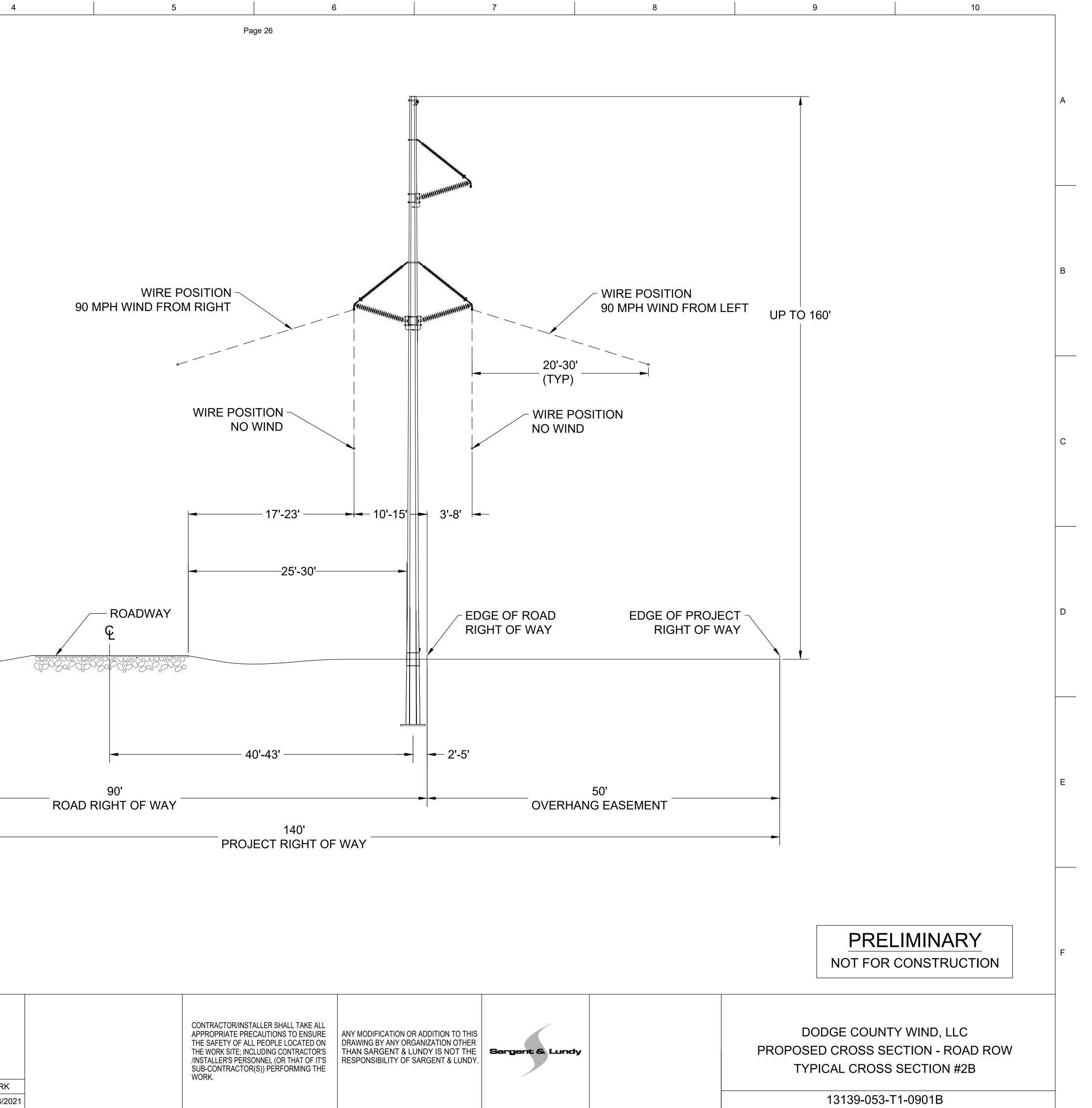
1

2

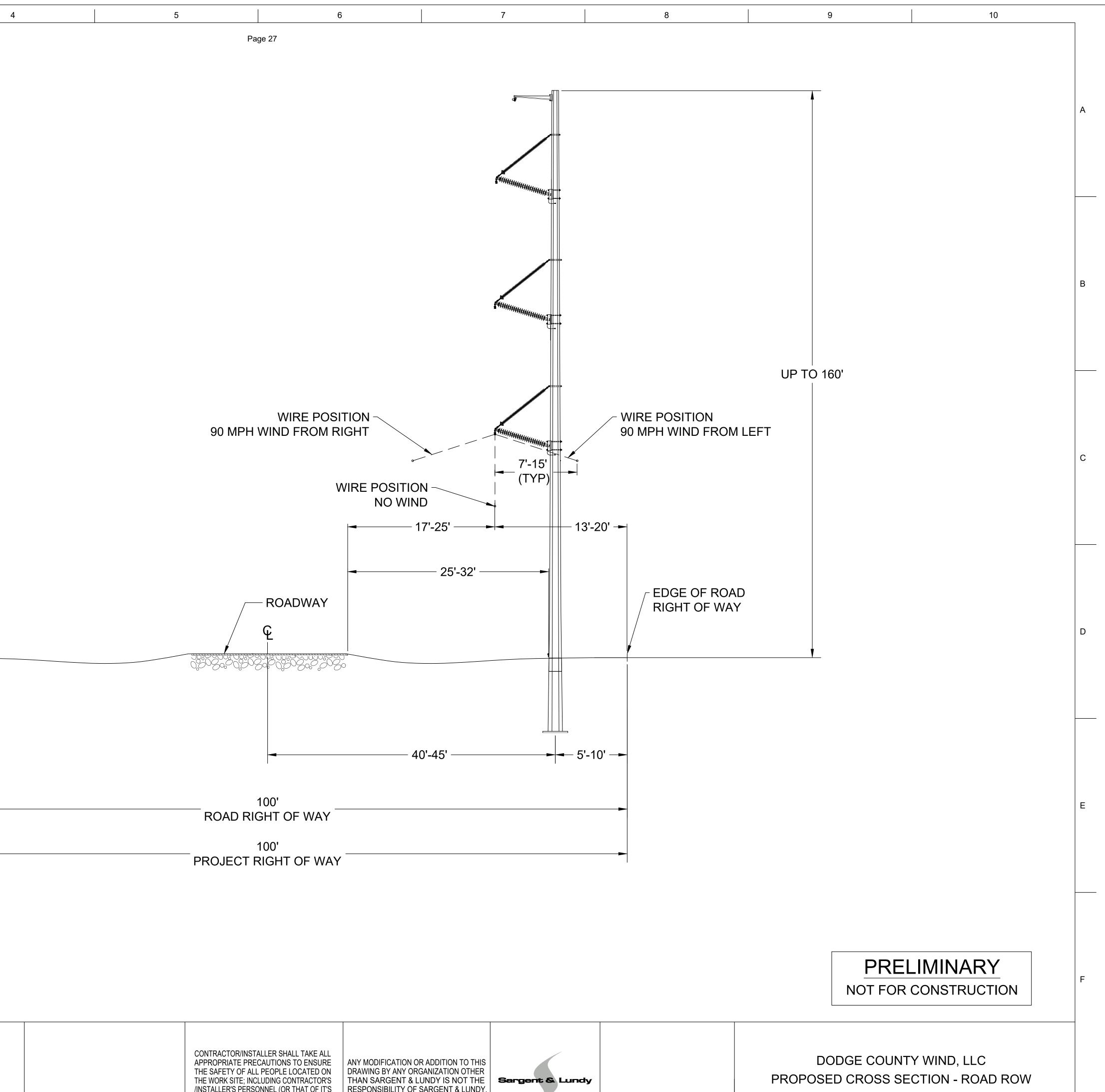
1. CROSS SECTION OF PROPOSED STRUCTURE LOCATED IN ROAD ROW SHOWS TYPICAL STRUCTURE AT MINIMUM SETBACK (2') FROM THE EDGE OF ROAD ROW. STRUCTURE CONFIGURATIONS AND HEIGHTS MAY VARY ALONG RIGHT-OF-WAY.

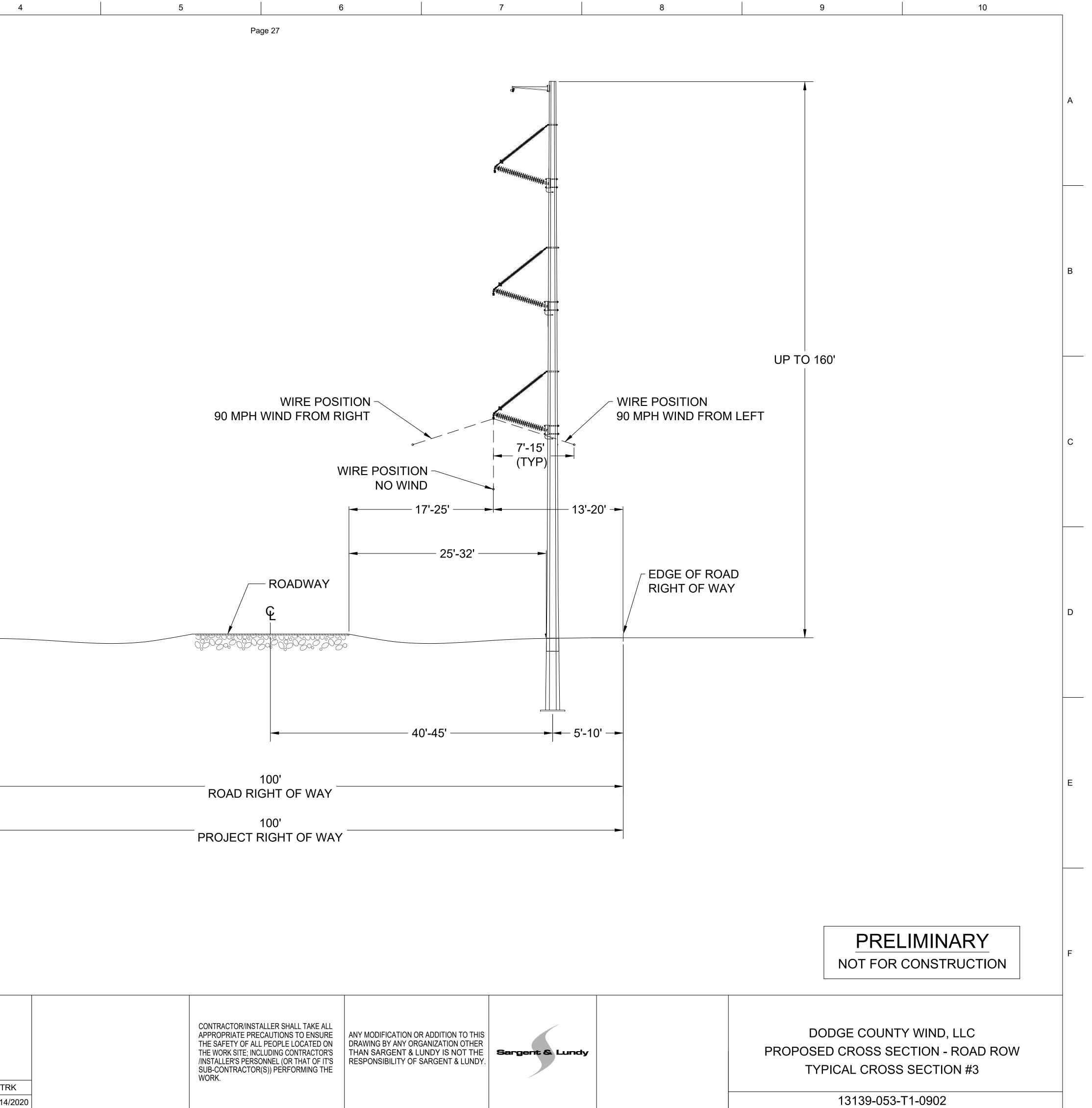
2. ALL DIMENSIONS ARE PRELIMINARY AND SUBJECT TO CHANGE DURING DETAIL DESIGN.

							SCALE:			
								NC	DNE	
Α	10/18/2021	PRELIMINARY - ISSUED FOR PERMIT	DIV	TRK	TRK	S&L	PREP:	DIV	CHKD:	Т
NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP	APPD:	TRK	DATE:	10/18



A																
В																
С																
)F R(OF \					
D								•		,,,,,		,,,,,				
E													-	◄		
													-	◄		
		DTES:							-							
F	1. 2.	STRU(CONF	CTURE AT IGURATIOI	N OF PROPO MAXIMUM S NS AND HEIG S ARE PRELI	ETBACK (1 GHTS MAY	0') FROM ⁻ VARY ALC	THE EDGE	OF ROAI OF-WAY	D R ′.	ROW.	STR	UCTI	JRE			
													SCALE:			
													-	N	ON	E
													-			
	С	10/18/2021			NARY - ISSUED F				NV	TRK	TRK	S&L	1			
	B	04/19/2021 12/14/2020			NARY - ISSUED F				JL JL	TRK	JDJ KVP	S&L S&L	PREP:	NT/EB	сн	KD: T
	A NO	12/14/2020 DATE			NARY - ISSUED F					TRK REV'D		OUL	APPD:	KVP		TE: 12/14





13139-053-T1-0902

							SCALE:			
							OUALL.			
								N	ONE	
А	10/18/2021	PRELIMINARY - ISSUED FOR PERMIT	DIV	TRK	TRK	S&L	PREP:	DIV	CHKD:	Т
NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP	APPD:	TRK	DATE:	10/18

1. CROSS SECTION OF PROPOSED STRUCTURE LOCATED IN ROAD ROW SHOWS TYPICAL

2. ALL DIMENSIONS ARE PRELIMINARY AND SUBJECT TO CHANGE DURING DETAIL DESIGN.

CONFIGURATIONS AND HEIGHTS MAY VARY ALONG RIGHT-OF-WAY.

STRUCTURE AT MINIMUM SETBACK (2') FROM THE EDGE OF ROAD ROW. STRUCTURE

1

NOTES:

2

3

4

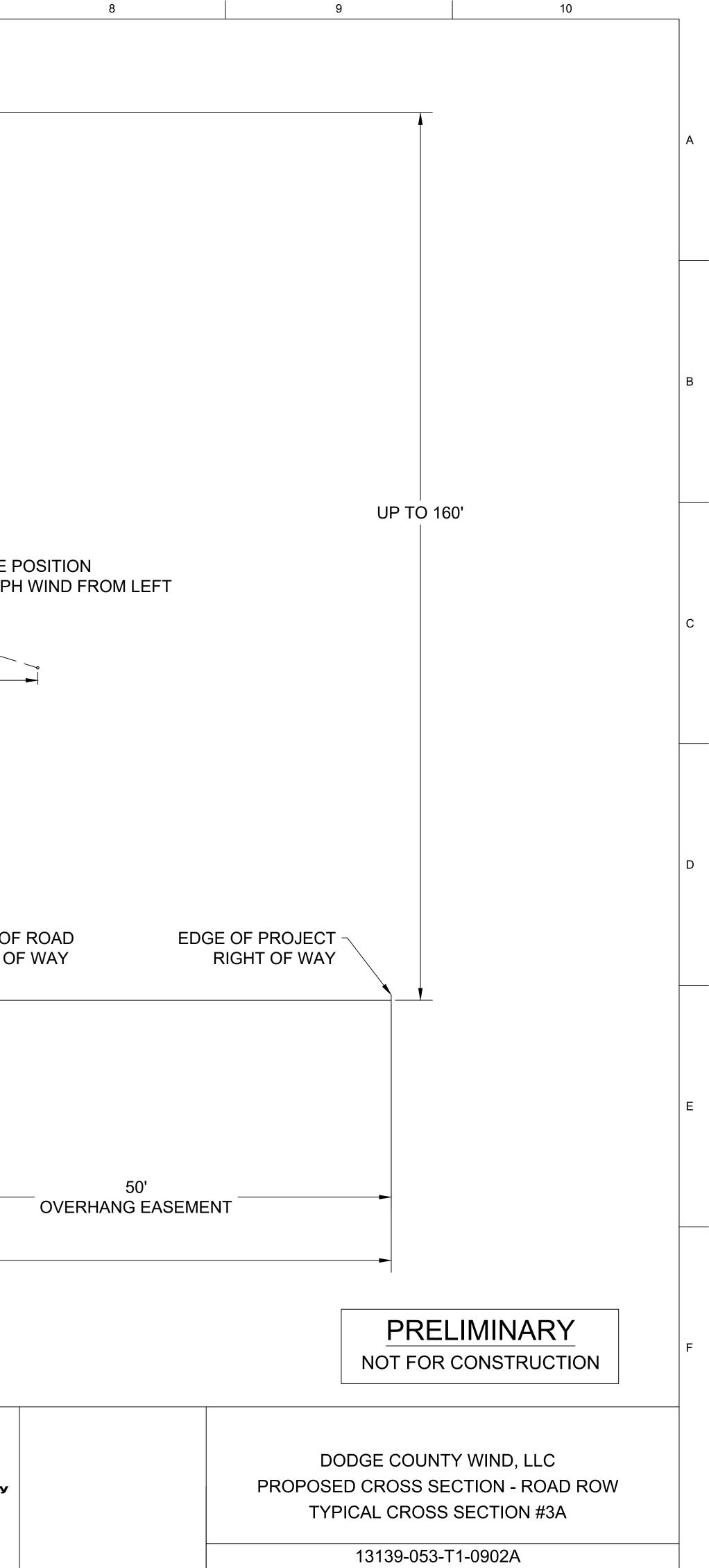
5

6

Page 28

- EDGE OF ROAD RIGHT OF WAY	

90 MPI	WIRE POSITION		WIRE P 90 MPH
	o		20'-30' (TYP)
	WIRE POSIT NO V 22'-	VIND	
,── ROADWA		-30'-35'	
		4	EDGE OF RIGHT OF
0,20,20,20,20,20,30,30,30,30,30,30,30,30,30,30,30,30,30	0,0,00,00		
	45'-48	▪₽	- 2'-5'
ROAD RIGHT OF	150		
	PROJECT RIG	HT OF WAY	
TRK	CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE; INCLUDING CONTRACTOR'S /INSTALLER'S PERSONNEL (OR THAT OF IT'S SUB-CONTRACTOR(S)) PERFORMING THE WORK.	ANY MODIFICATION OR ADDITION TO THIS DRAWING BY ANY ORGANIZATION OTHER THAN SARGENT & LUNDY IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.	Sargent & Lundy
18/2021			



	- EDGE OF ROAD RIGHT OF WAY
NOTES:	
1. CROSS SECTION OF PROPOSED STRUCTURE LOCATED IN RO STRUCTURE AT MINIMUM SETBACK (2') FROM THE EDGE OF R	

CONFIGURATIONS AND HEIGHTS MAY VARY ALONG RIGHT-OF-WAY. 2. ALL DIMENSIONS ARE PRELIMINARY AND SUBJECT TO CHANGE DURING DETAIL DESIGN.

FL

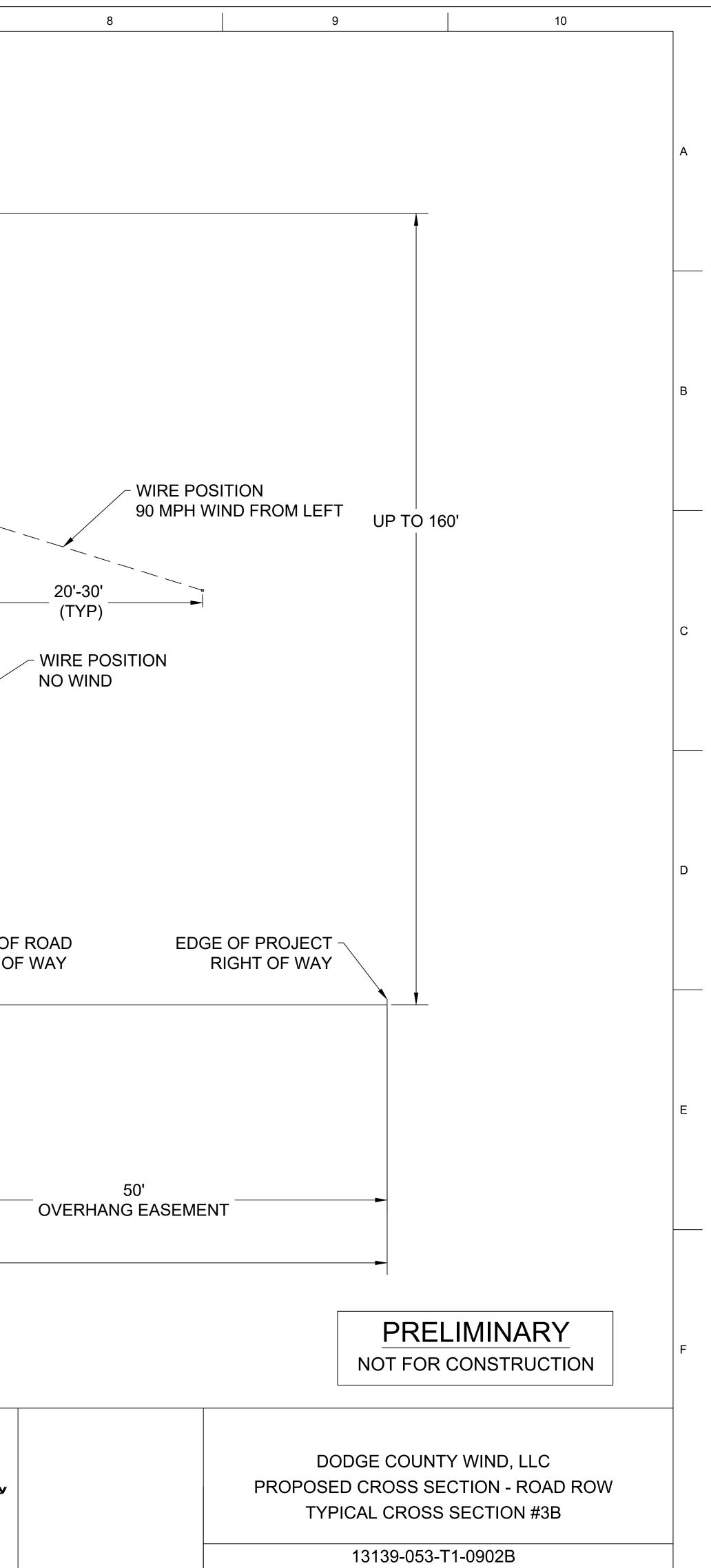
1

2

				<u> </u>			SCALE:			
			+					NC	ONE	
]			
									·	
										
Α	10/18/2021	PRELIMINARY - ISSUED FOR PERMIT	DIV	TRK	TRK	S&L	PREP:	DIV	CHKD:	Т
NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	СОМР	APPD:	TRK	DATE:	10/1

4		5		6		7	
			Page 29				
							k
		10/		N 1			
	ç		VIRE POSITION FROM RIGH				
			0				
			WIRE	POSITION ~ NO WIND			
			-	— 22'-28' ——	⊳∣⊸ 1	0'-15' 3'-8	' -
	/ RC	ADWAY	-	30'-35'-			
	Ģ						- EDGE OF RIGHT OF
	0°080°0°080°0° 20°080°0°00°00°00°00°00°00°00°00°00°00°00	0.000000000000000000000000000000000000)				
	-	4		45'-48'			.5'
		RC	100' DAD RIGHT OF	- WAY			
				150' CT RIGHT OF V	ΜΔΥ		
			TROOL				

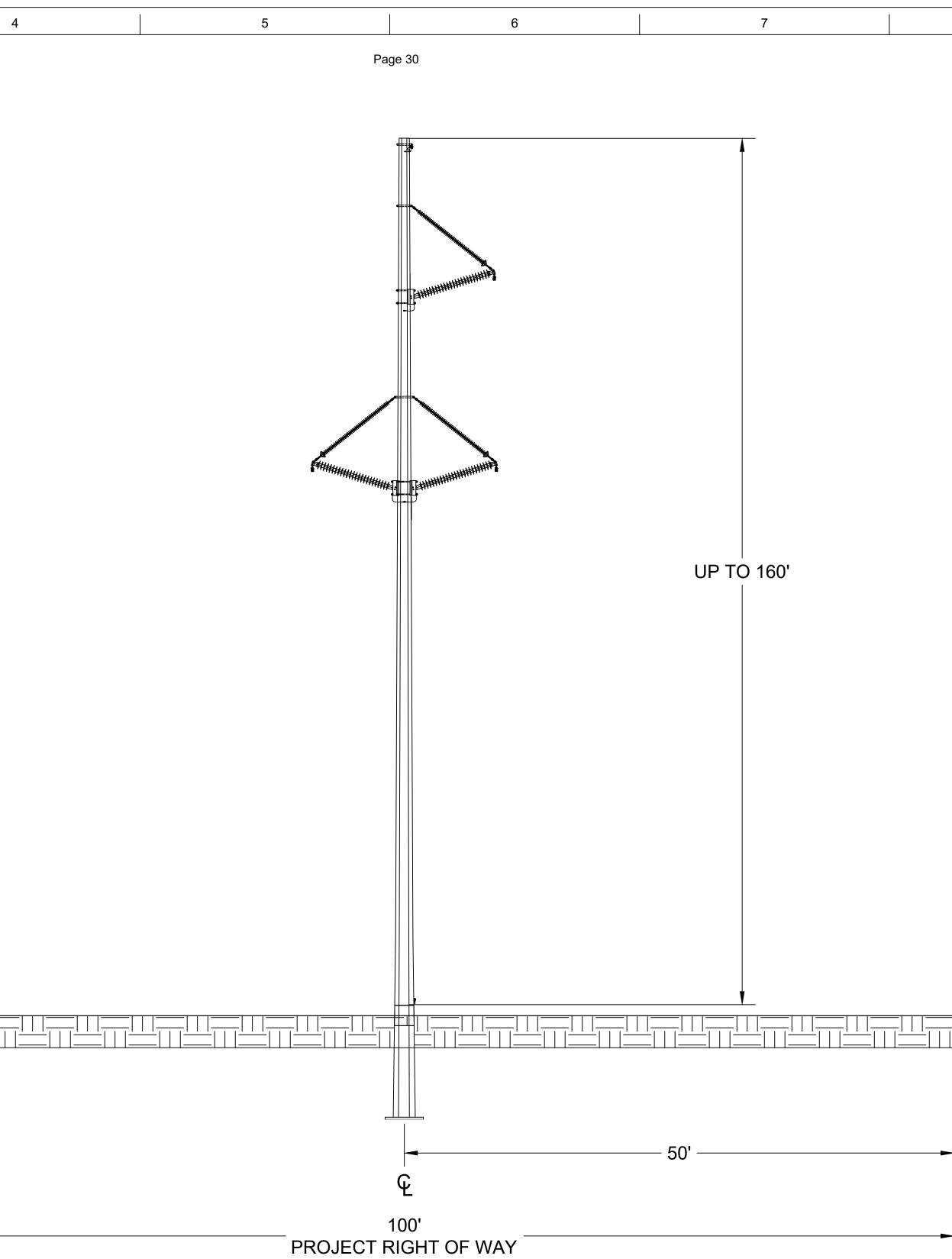
	CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE; INCLUDING CONTRACTOR'S /INSTALLER'S PERSONNEL (OR THAT OF IT'S SUB-CONTRACTOR(S)) PERFORMING THE WORK.	ANY MODIFICATION OR ADDITION TO THIS DRAWING BY ANY ORGANIZATION OTHER THAN SARGENT & LUNDY IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.	Sargent & Lundy
TRK			
18/2021			



A		
В		
c		UP TO 160'
EDGE OF PROJECT RIGHT OF WAY		
E		Q 100' PROJECT RIGHT OF WAY
NOTES: 1. CROSS SECTION OF PROPOSED STRUCTURE LOCATED IN TRANSMISSION ROW SHOWS TYPICAL STRUCTURE. STRUCTURE CONFIGURATIONS AND HEIGHTS MAY VARY ALONG RIGHT-OF-WAY. F 2. ALL DIMENSIONS ARE PRELIMINARY AND SUBJECT TO CHANGE DURING DETAIL DESIGN		
Image: Constraint of the second	NONE	CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE; INCLUDING CONTRACTOR'S /INSTALLER'S PERSONNEL (OR THAT OF IT'S SUB-CONTRACTOR(S)) PERFORMING THE WORK.

2

3



PRELIMINARY

NOT FOR CONSTRUCTION

DODGE COUNTY WIND, LLC PROPOSED CROSS SECTION - TRANSMISSION ROW TYPICAL CROSS SECTION #6

9

8

RIGHT OF WAY

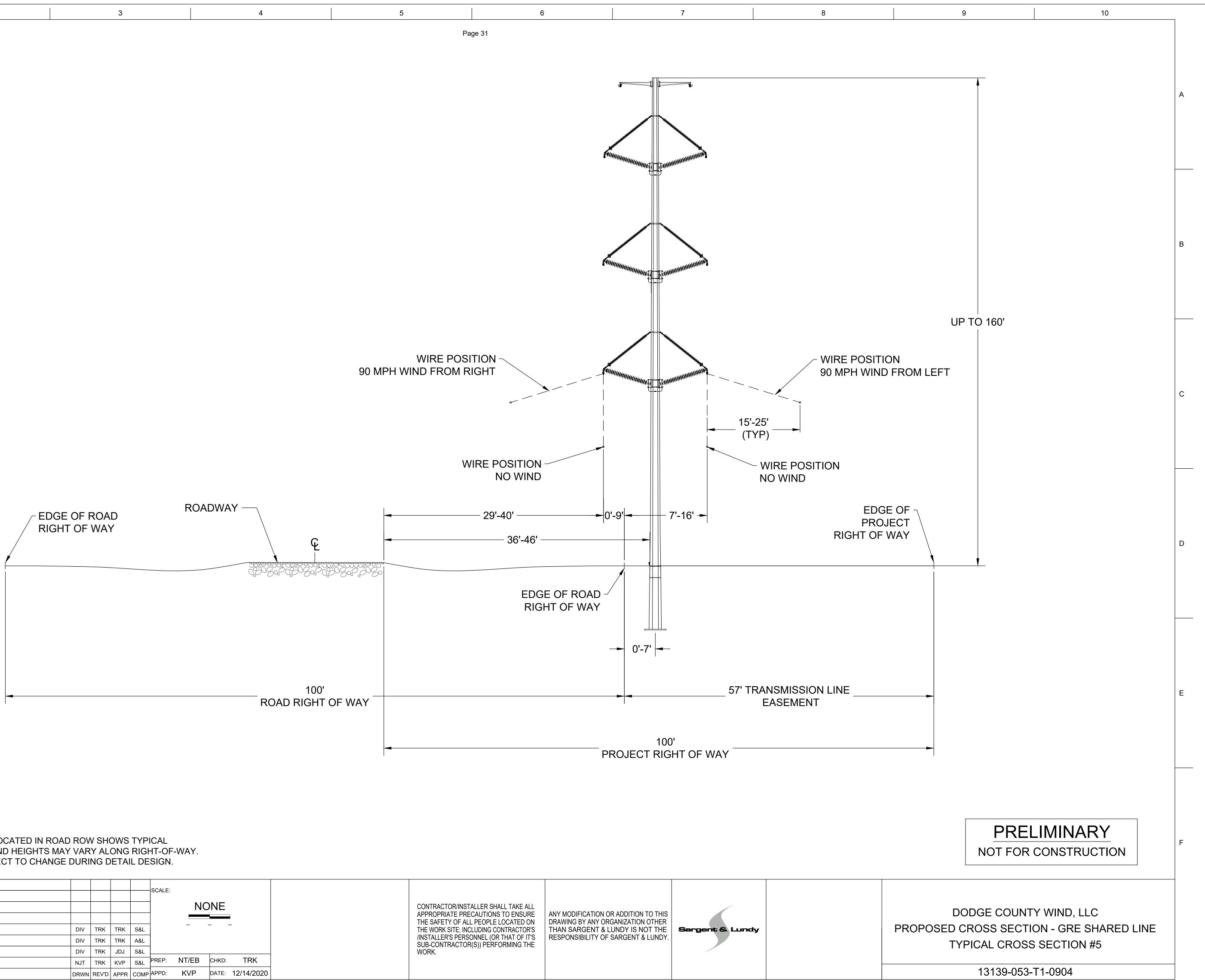
10

С

D

F

13139-053-T1-0905



NOTES:

1

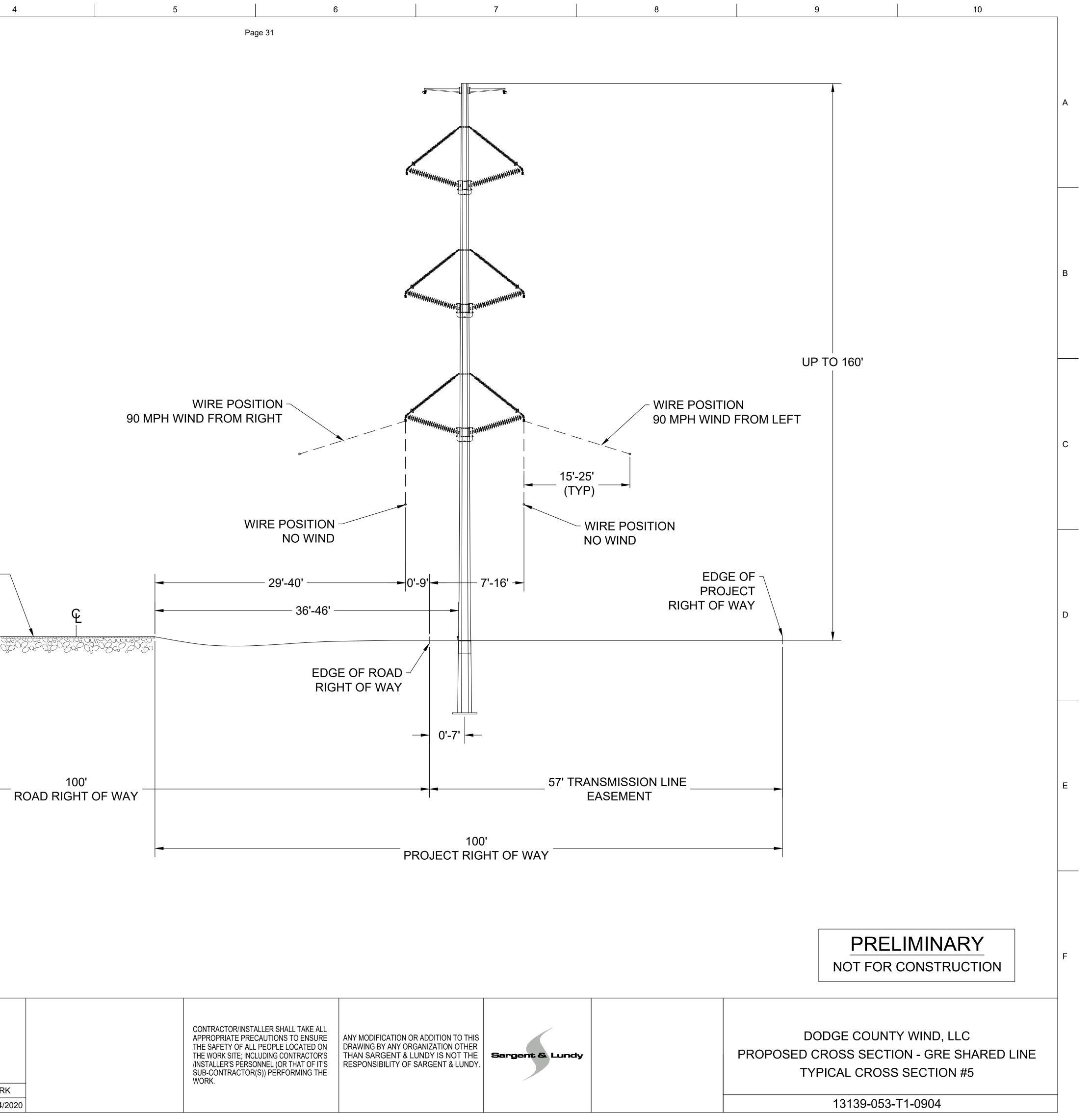
2

F 1. CROSS SECTION OF PROPOSED STRUCTURE LOCATED IN ROAD ROW SHOWS TYPICAL

STRUCTURE. STRUCTURE CONFIGURATIONS AND HEIGHTS MAY VARY ALONG RIGHT-OF-WAY.

2. ALL DIMENSIONS ARE PRELIMINARY AND SUBJECT TO CHANGE DURING DETAIL DESIGN.

							SCALE:			
								N	ONE	
D	11/10/2021	PRELIMINARY - ISSUED FOR PERMIT	DIV	TRK	TRK	S&L				
С	10/18/2021	PRELIMINARY - ISSUED FOR PERMIT	DIV	TRK	TRK	A&L				
В	04/19/2021	PRELIMINARY - ISSUED FOR PERMIT	DIV	TRK	JDJ	S&L				
Α	12/14/2020	PRELIMINARY - ISSUED FOR REVIEW	NJT	TRK	KVP	S&L	PREP:	NT/EB	CHKD:	TF
NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	СОМР	APPD:	KVP	DATE:	12/14/



Transmission Line Pole Structures

161 kV Single Circuit Delta Tangent Framing	Page 33
161 kV Single Circuit Vertical Tangent Framing	Page 34
161 kV Light Angle Structure (3° – 15°) Framing	Page 35
161 kV Medium Angle Structure (15° – 30°) Framing	Page 36
161 kV Single Circuit Guyed Deadend (30° – 100°) Framing	Page 37
161 kV Single Circuit Self-Support Deadend (30° – 100°) Framing	Page 38
161 kV Single Circuit Vertical Tangent with Underbuild Framing	Page 39
161 kV Double Circuit Vertical Tangent Framing	Page 40
161 kV Double Circuit Self-Support Light Angle (2° – 8°) Framing	Page 41
161 kV Double Circuit Self-Support Medium Angle (8° – 45°) Framing	Page 42
161 kV Double Circuit Self-Support Deadend (45° – 135°) Framing	Page 43

NOTES:

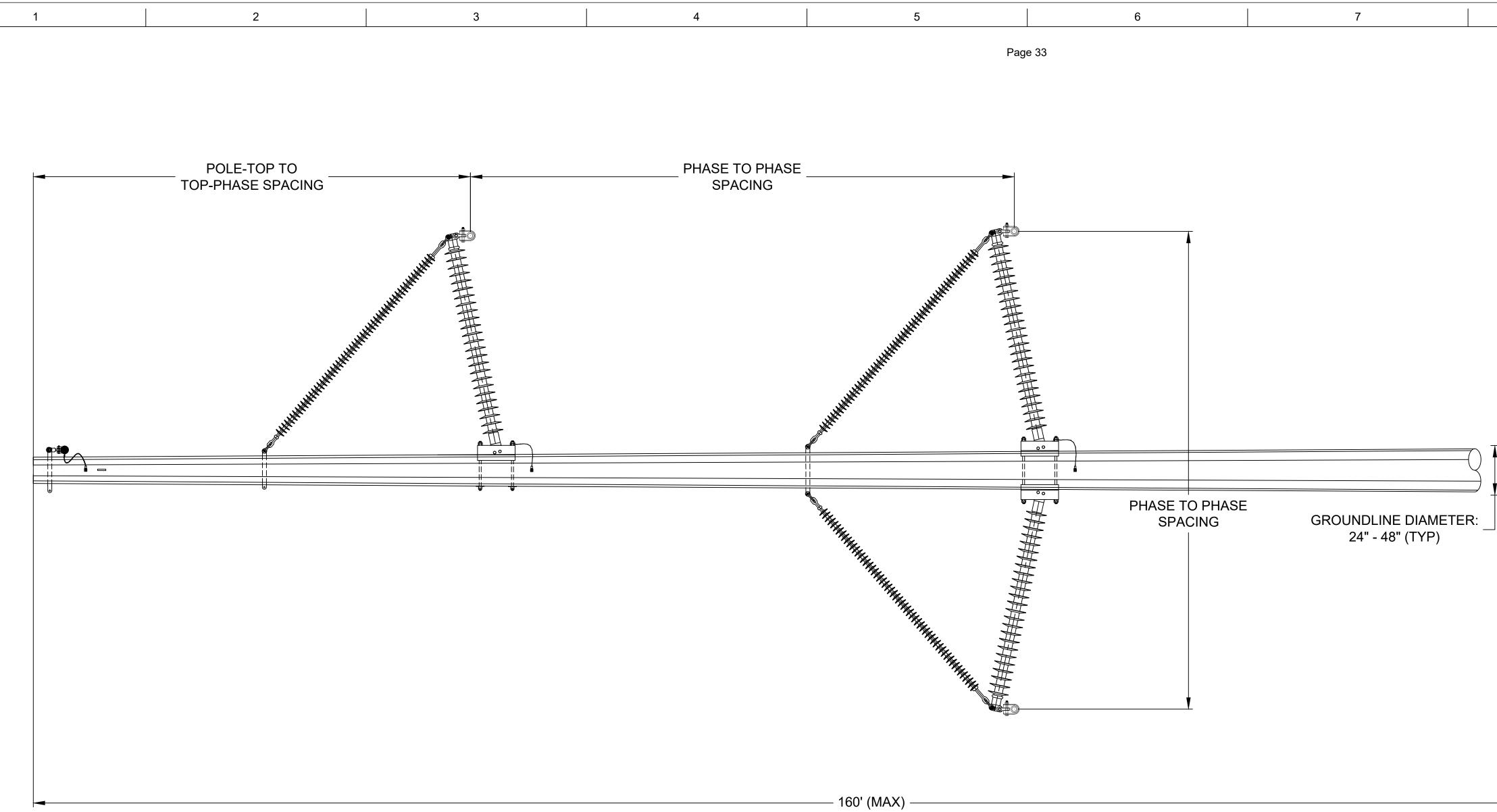
D

Е

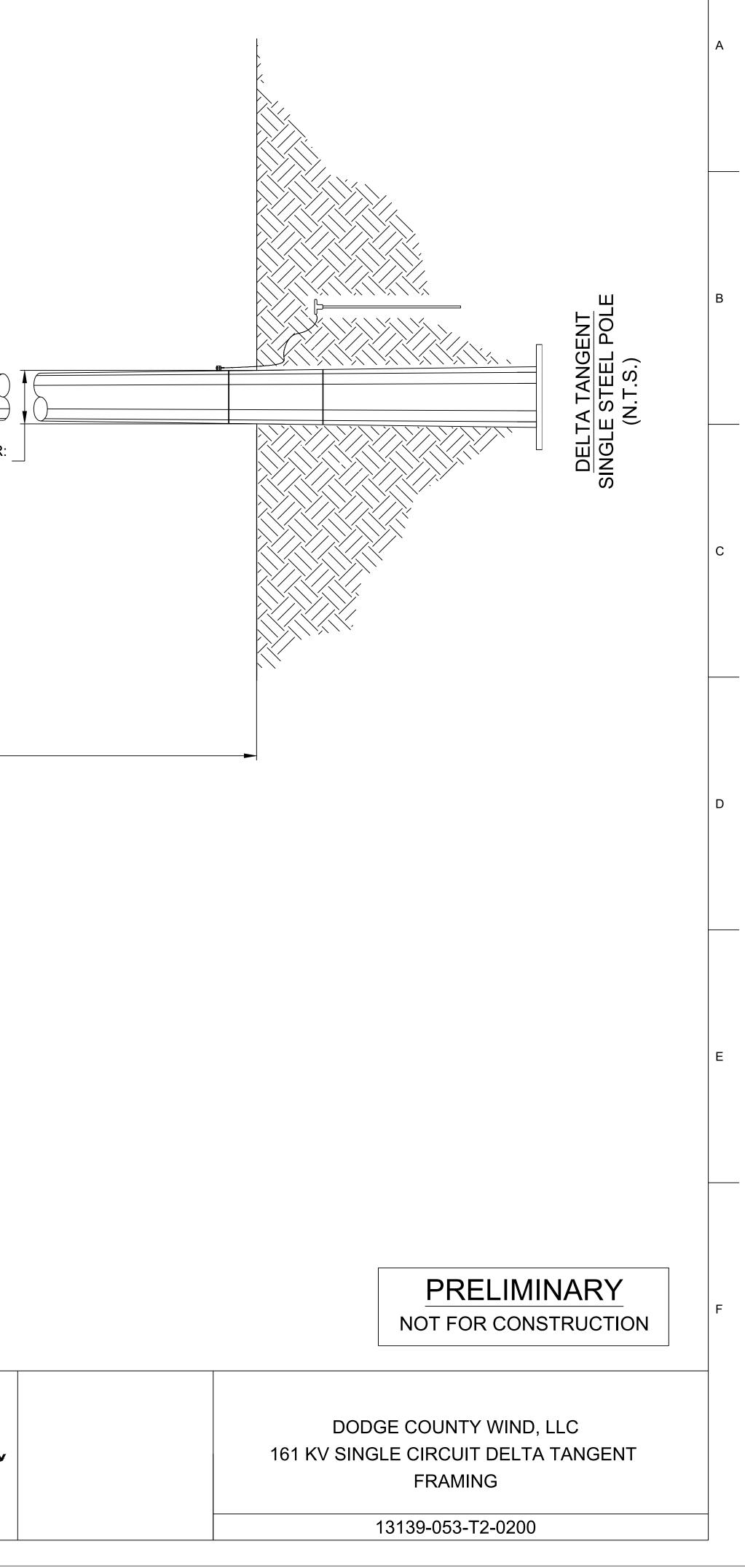
F 1. ELEVATION VIEW ILLUSTRATES THE OVERALL STRUCTURE CONFIGURATION.

THE SPACING BETWEEN THE COMPONENTS WILL BE DETERMINED DURING DETAILED DESIGN.

							SCALE:			
							SCALE.			
								NC	NE	
В	04/19/2021	PRELIMINARY - ISSUED FOR PERMIT APPLICATION	DIV	TRK	JDJ	S&L				
А	12/30/2020	PRELIMINARY - ISSUED FOR REVIEW	ENB	TRK	JDJ	S&L	PREP:	ENB	CHKD:	Т
NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP	APPD:	JDJ	DATE:	12/3
	I			•					•	

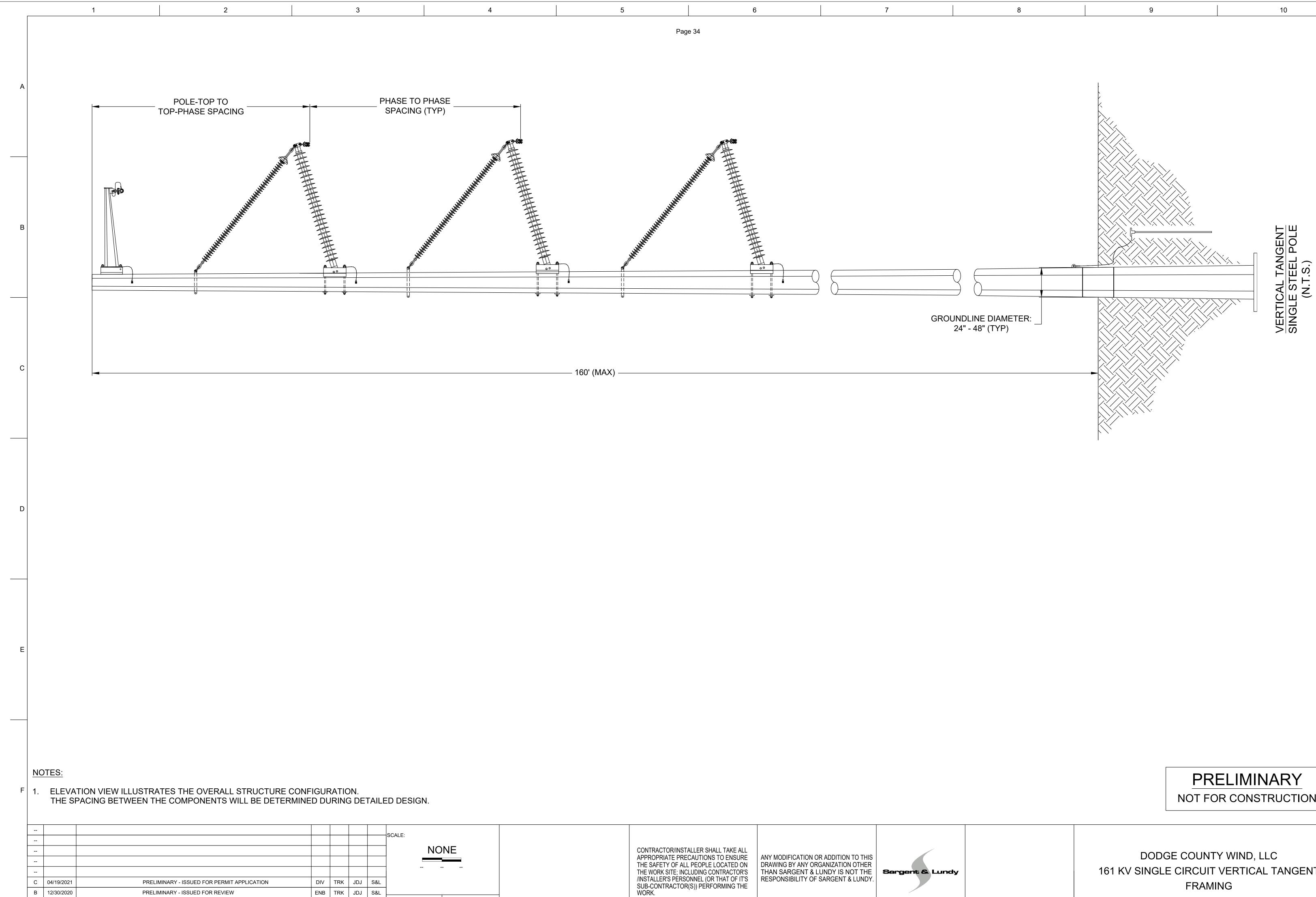


TRK 30/2020	CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE; INCLUDING CONTRACTOR'S /INSTALLER'S PERSONNEL (OR THAT OF IT'S SUB-CONTRACTOR(S)) PERFORMING THE WORK.	ANY MODIFICATION OR ADDITION TO THIS DRAWING BY ANY ORGANIZATION OTHER THAN SARGENT & LUNDY IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.	Sargent & Lundy



9

8



-- DATE: 07/15/

CHS CHKD:

PREP:

CHS TRK -- S&L

DRWN REV'D APPR COMP APPD:

A 07/15/2020

NO DATE

PRELIMINARY - ISSUED FOR REVIEW

REVISIONS AND RECORD OF ISSUE

/INSTALLER'S PERSONNEL (OR THAT OF IT'S SUB-CONTRACTOR(S)) PERFORMING THE WORK.

TRK
7/15/2020

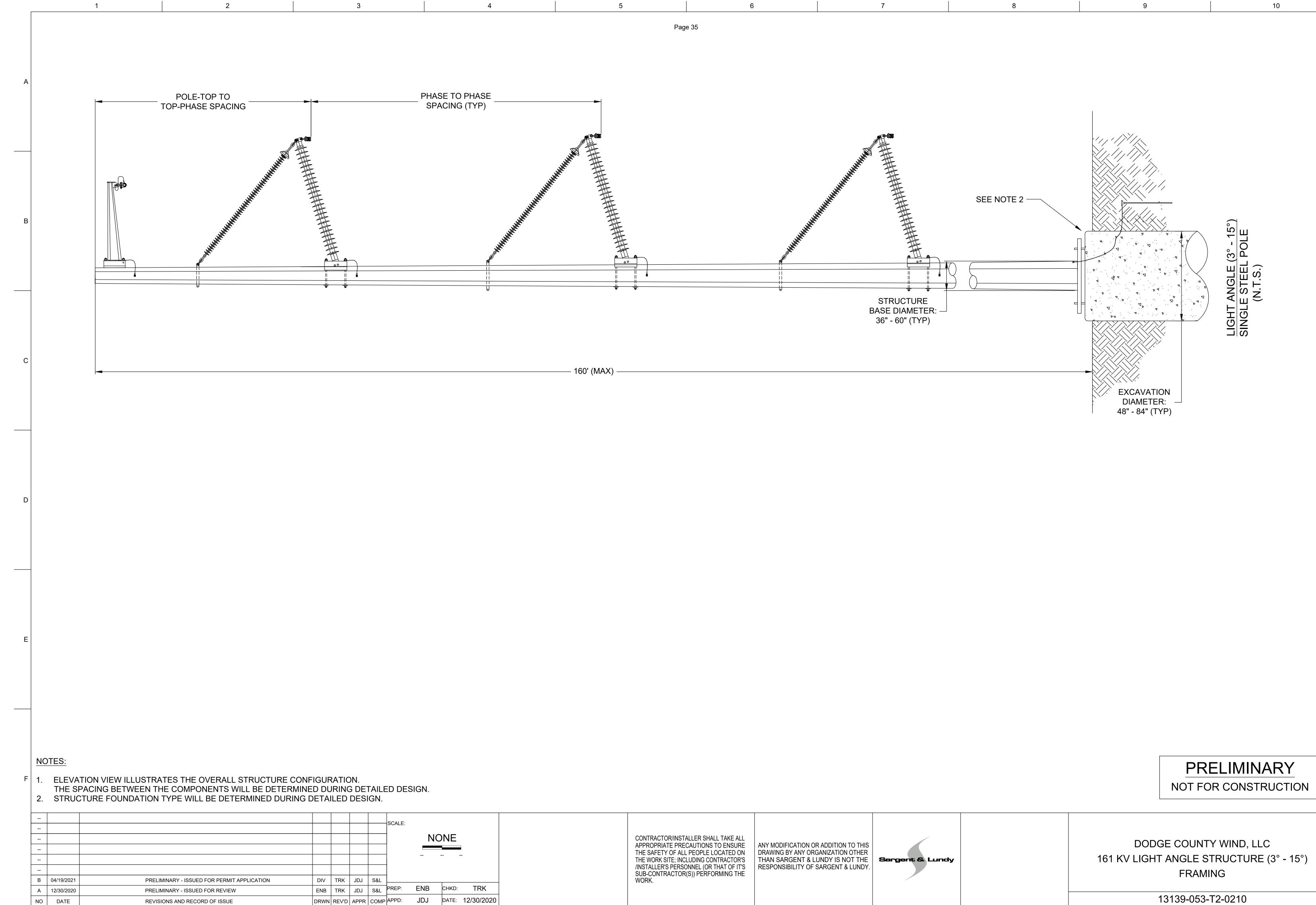
13139-053-T2-0205

161 KV SINGLE CIRCUIT VERTICAL TANGENT FRAMING



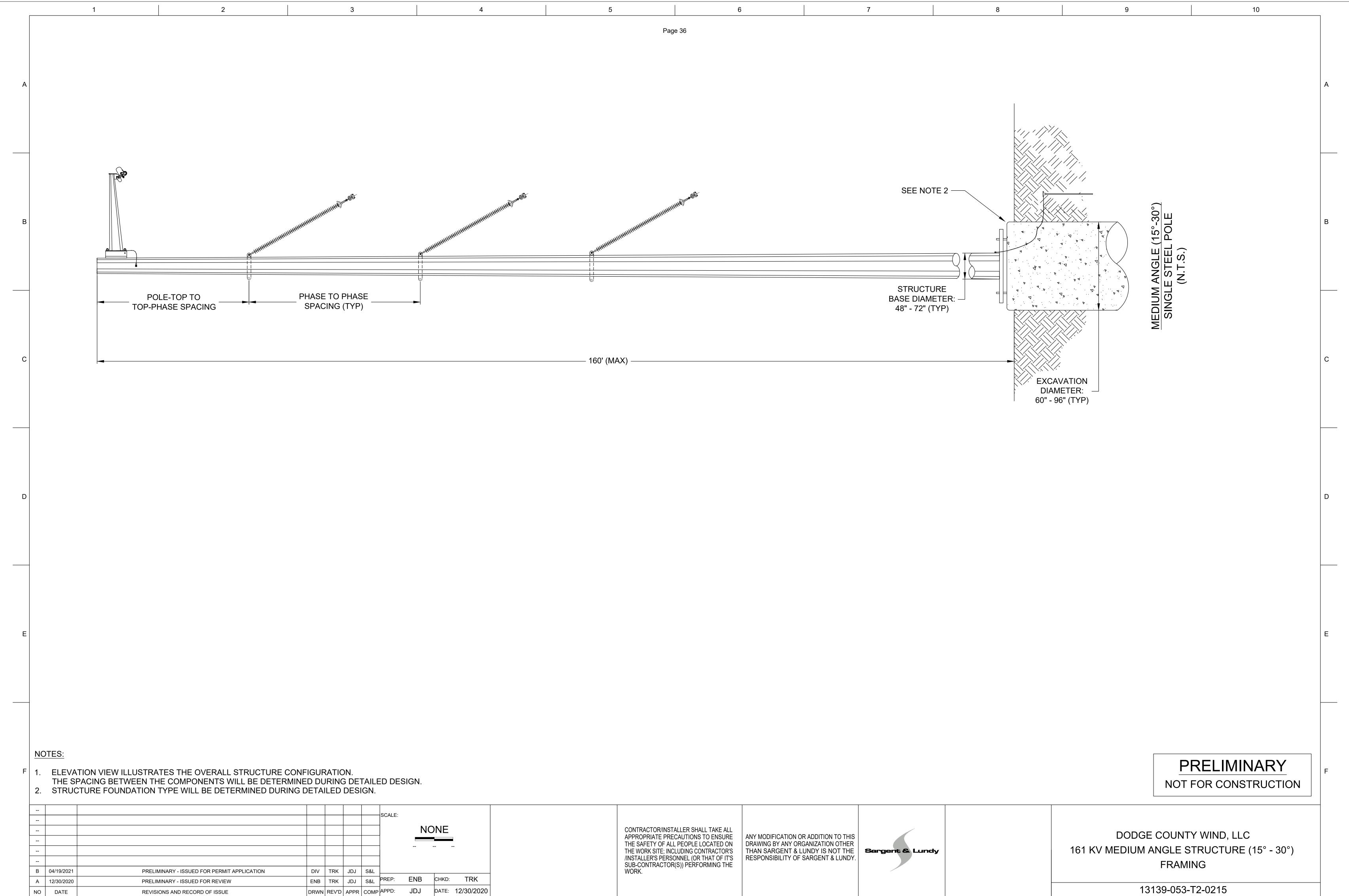
D

F



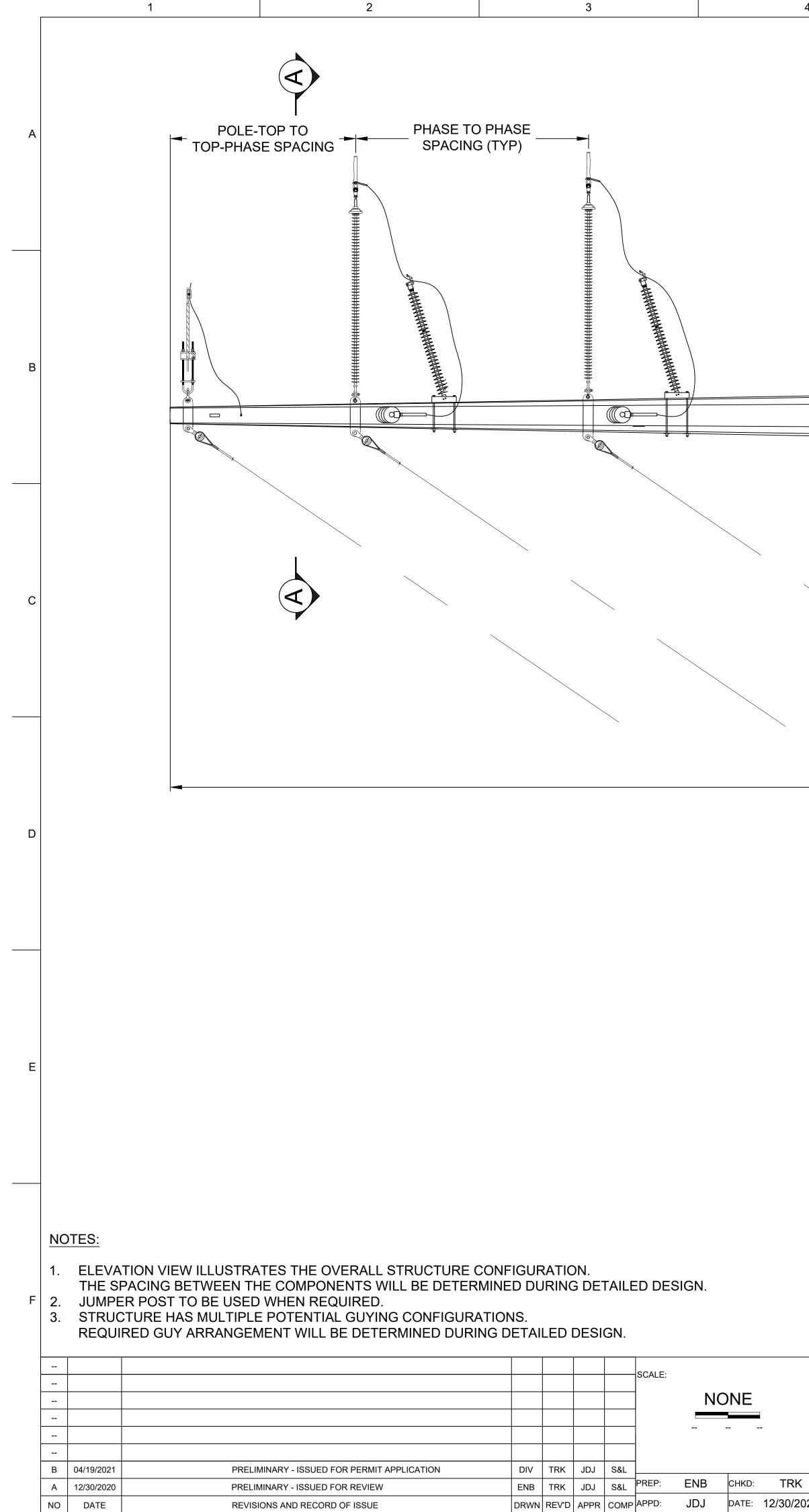
13139-053-T2-0210

D



CONTRACTOR/INSTALLER SHALL TAKE ALL
APPROPRIATE PRECAUTIONS TO ENSURE
THE SAFETY OF ALL PEOPLE LOCATED ON
THE WORK SITE; INCLUDING CONTRACTOR'S
/INSTALLER'S PERSONNEL (OR THAT OF IT'S
SUB-CONTRACTOR(S)) PERFORMING THE
WORK.

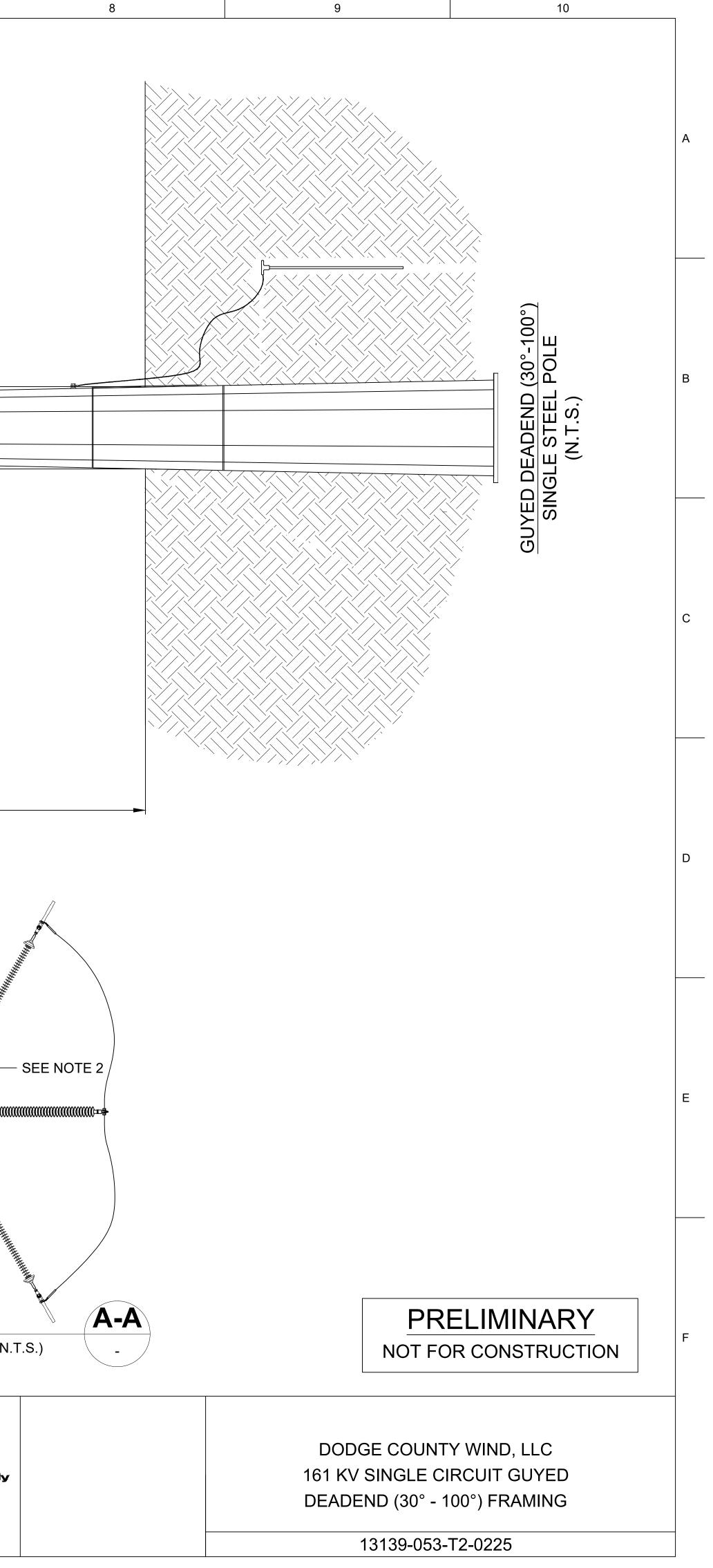
13139-053-T2-0215

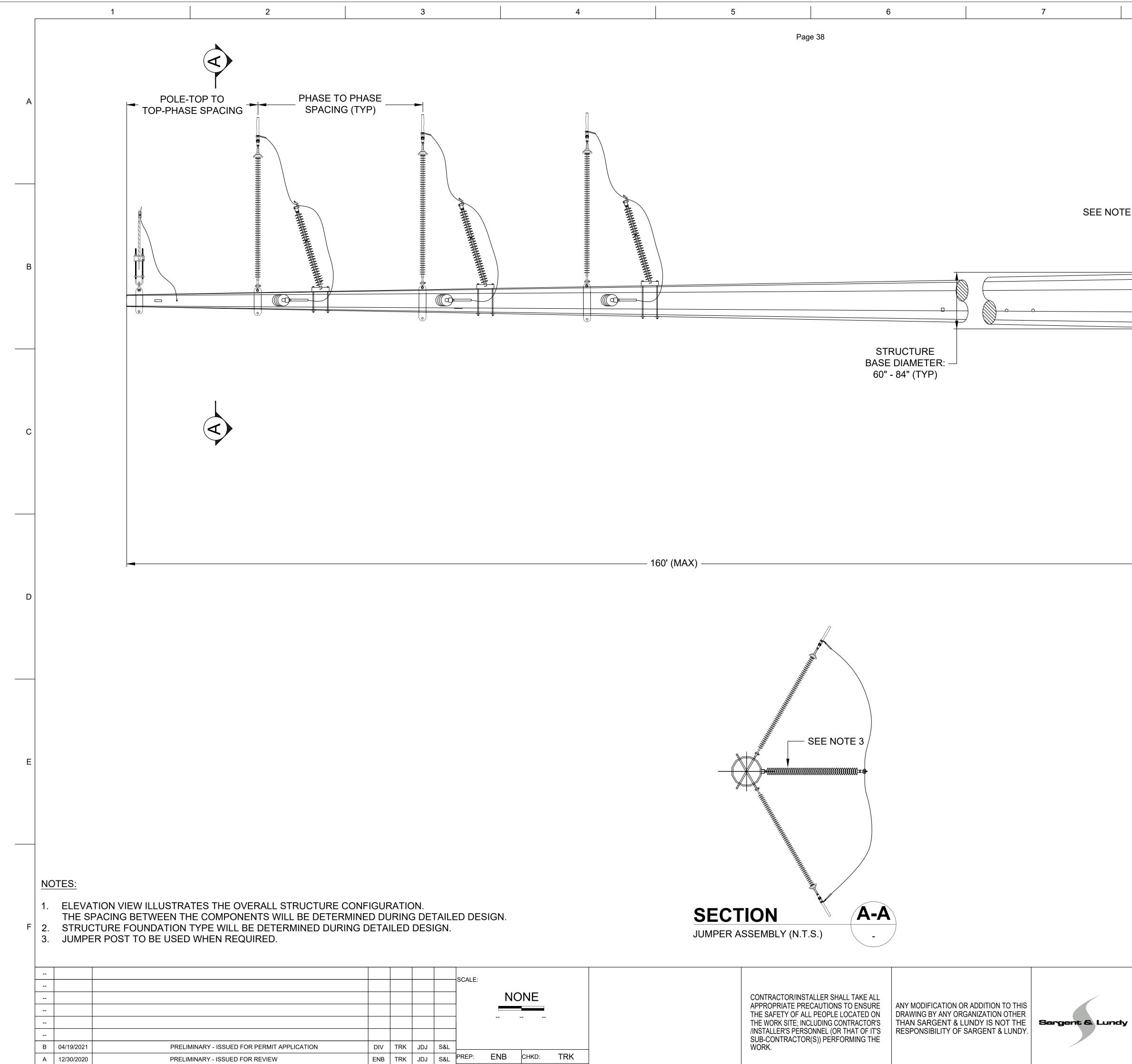


REVISIONS AND RECORD OF ISSUE

JDJ DATE: 12/30/2020

	Page 37				
				<u> </u>	
			NE DIAMETER: 8" (TYP)		
— 160' (MAX) ———					
	Ţ			1	
	ť	N			
				-	
		\bigwedge		4	
	/				
	Ŧ				
	GUY ARR		MENT	.	
		(N.T.S.) E NOTE 3			CTION ER ASSEMBLY (N
	CONTRACTOR/INSTALLER SH				_
	APPROPRIATE PRECAUTIONS	S TO ENSURE A	NY MODIFICATION OR AD RAWING BY ANY ORGANI HAN SARGENT & LUND	ZATION OTHER	argent & Lundy
	THE WORK SITE; INCLUDING CO /INSTALLER'S PERSONNEL (OR SUB-CONTRACTOR(S)) PERFO WORK.	ORMING THE	ESPONSIBILITY OF SAR	GENT & LUNDY.	





PRELIMINARY - ISSUED FOR REVIEW REVISIONS AND RECORD OF ISSUE

NO DATE

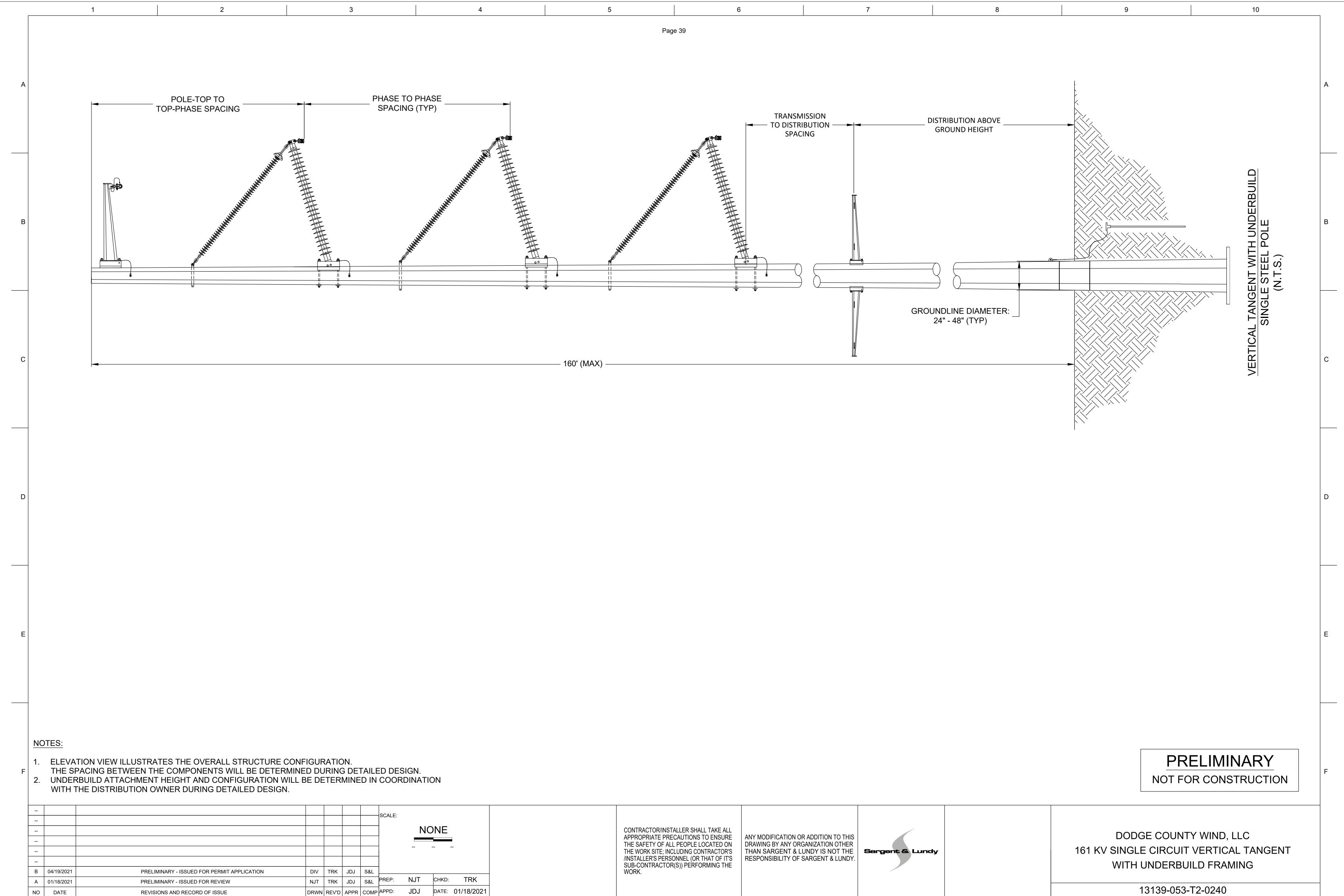
JDJ DATE: 12/30/2020

DRWN REV'D APPR COMP APPD:

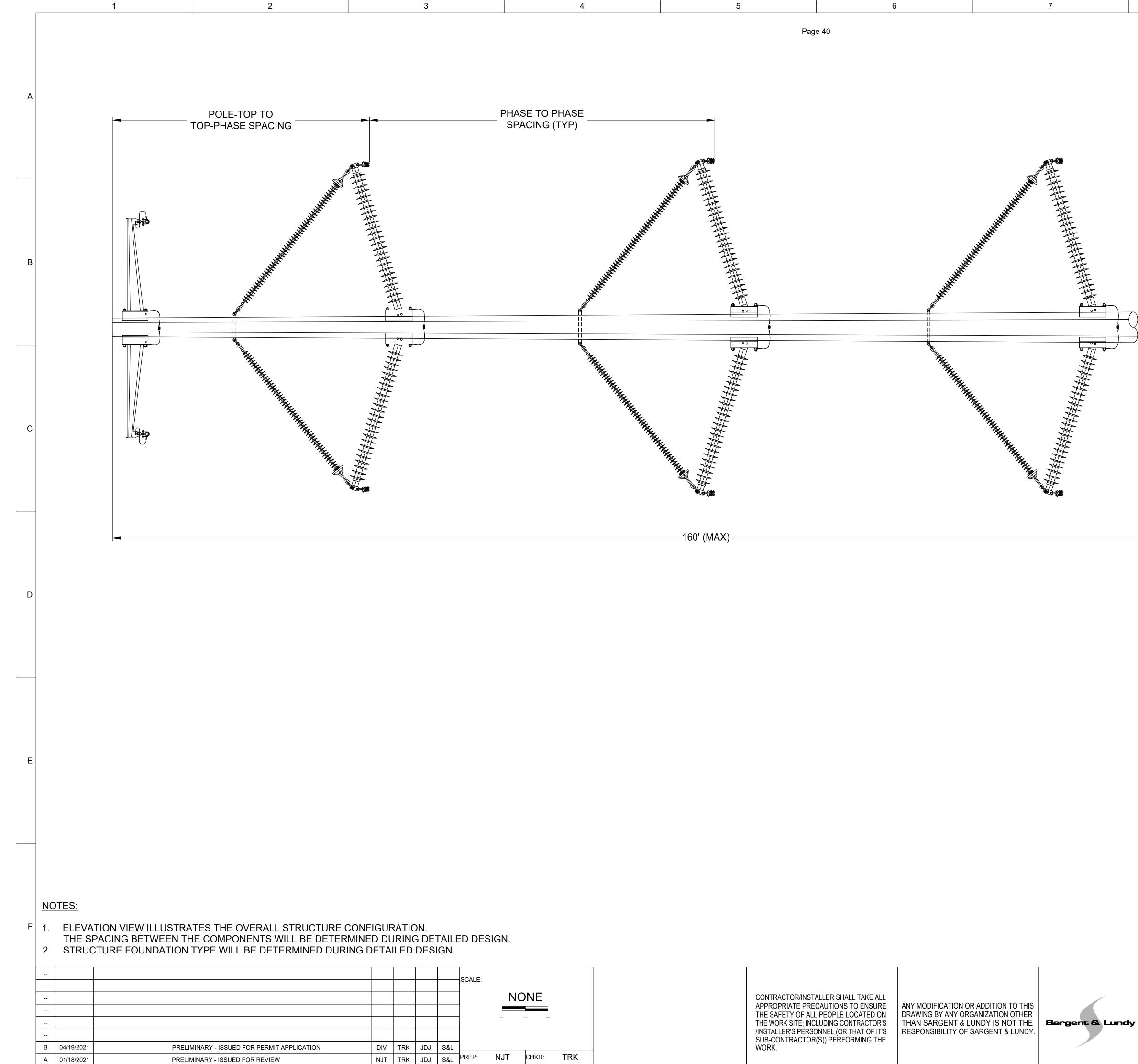
Έ2		(00°)	A
		SELF-SUPPORT DEADEND (30°-100°) SINGLE STEEL POLE (N.T.S.)	В
DI.	CAVATION AMETER: 108" (TYP)	Ϋ́	C
			D
			E
		PRELIMINARY NOT FOR CONSTRUCTION	F
y	161 KV SIN DEADE	GE COUNTY WIND, LLC GLE CIRCUIT SELF-SUPPORT END (30° - 100°) FRAMING 13139-053-T2-0230	

9

8



13139-053-T2-0240

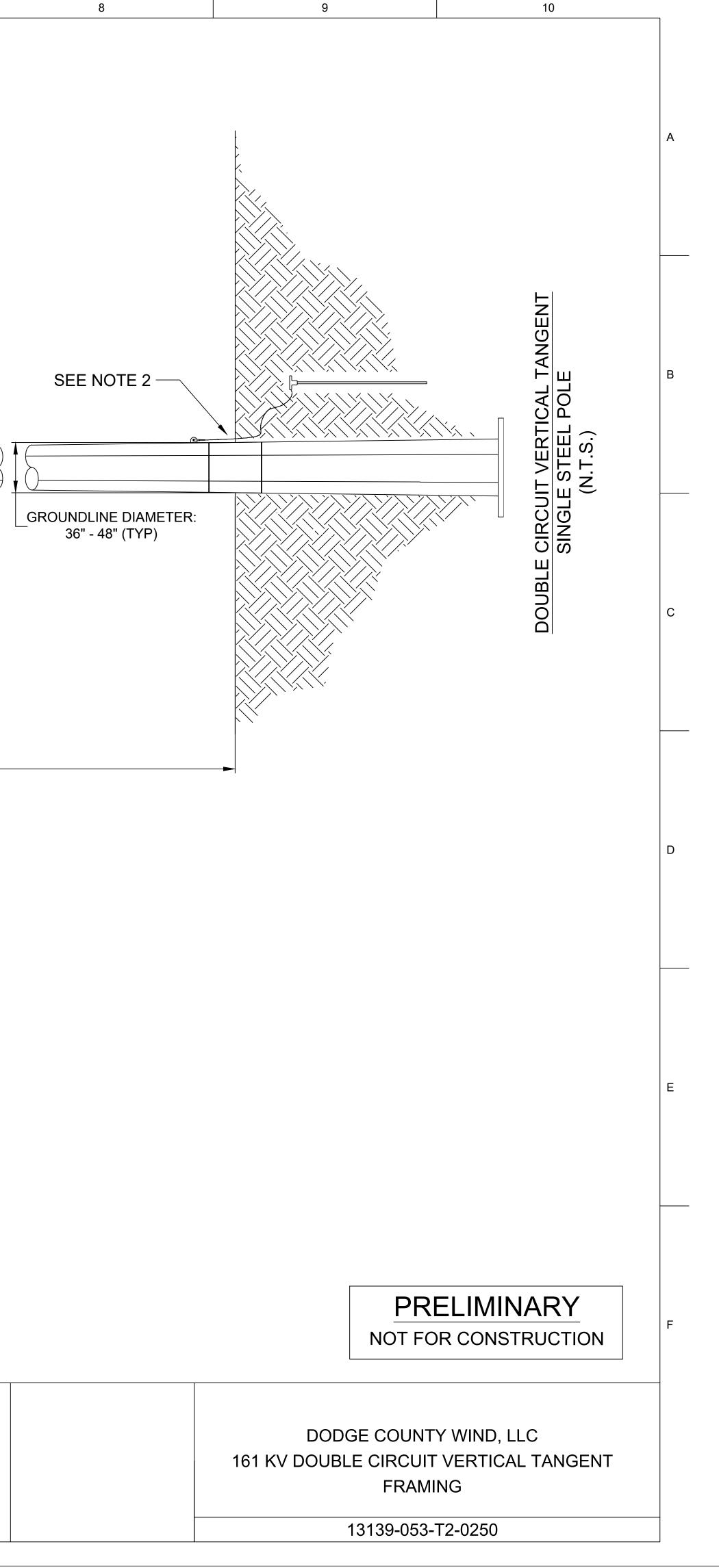


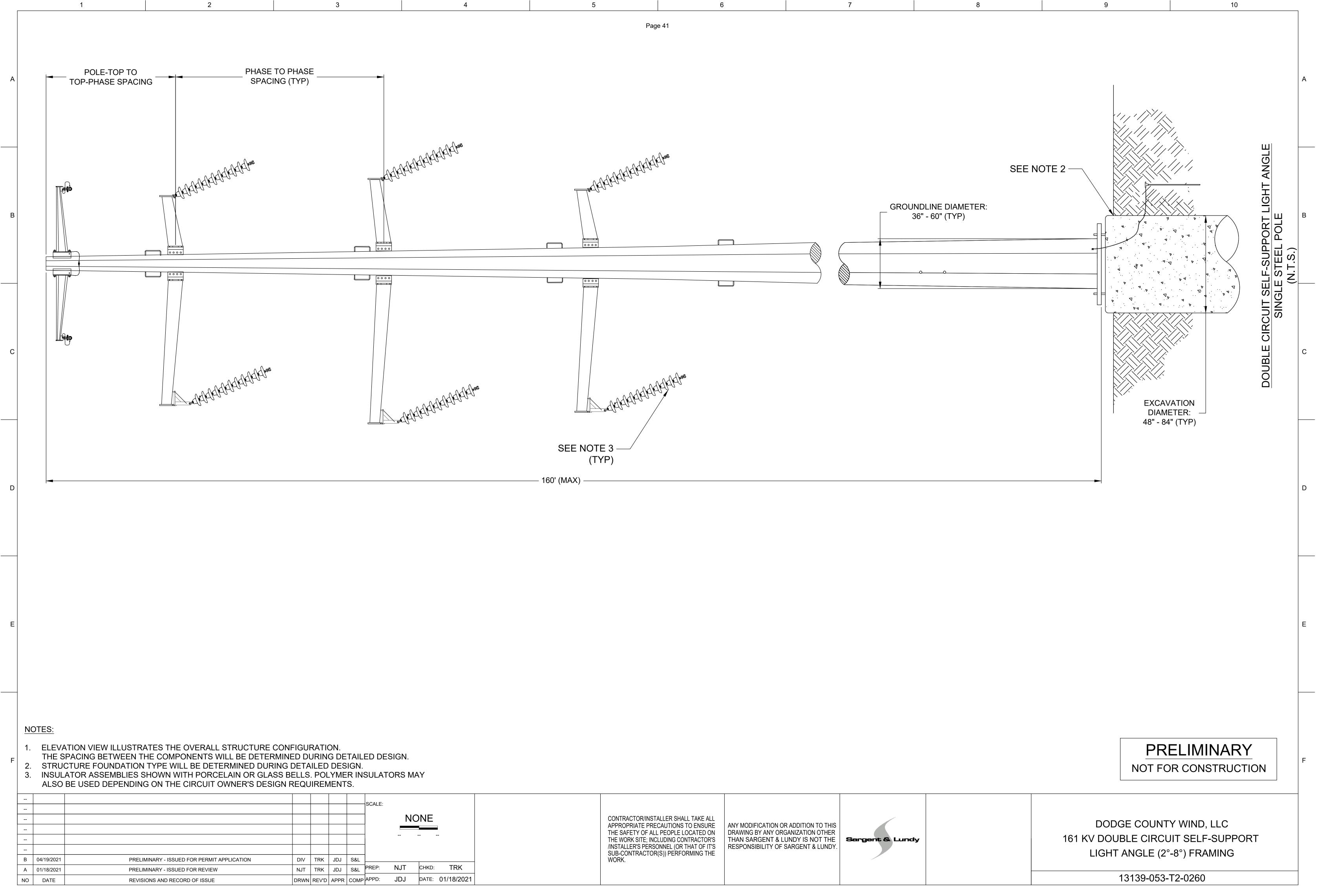
DRWN REV'D APPR COMP APPD:

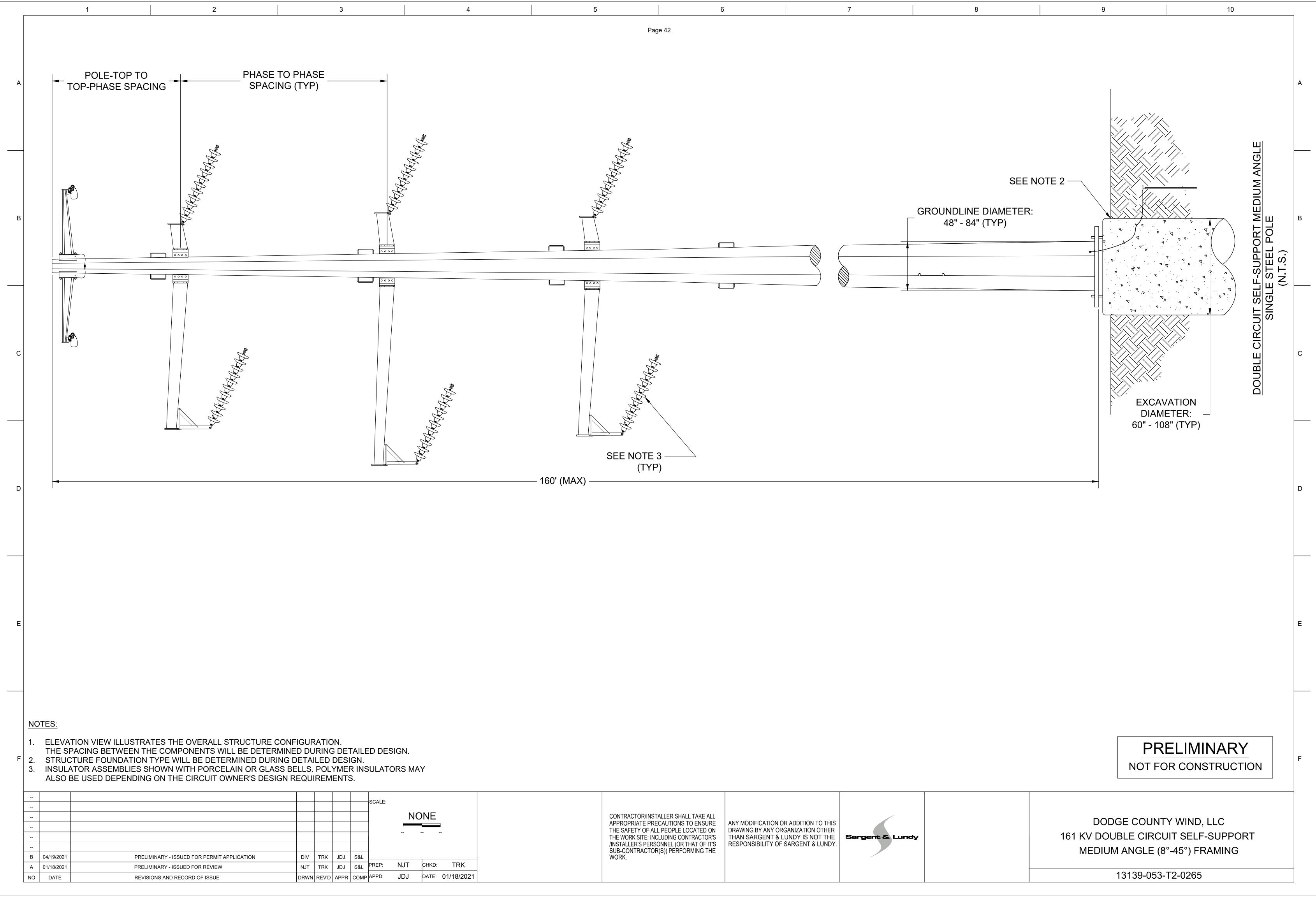
NO DATE

REVISIONS AND RECORD OF ISSUE

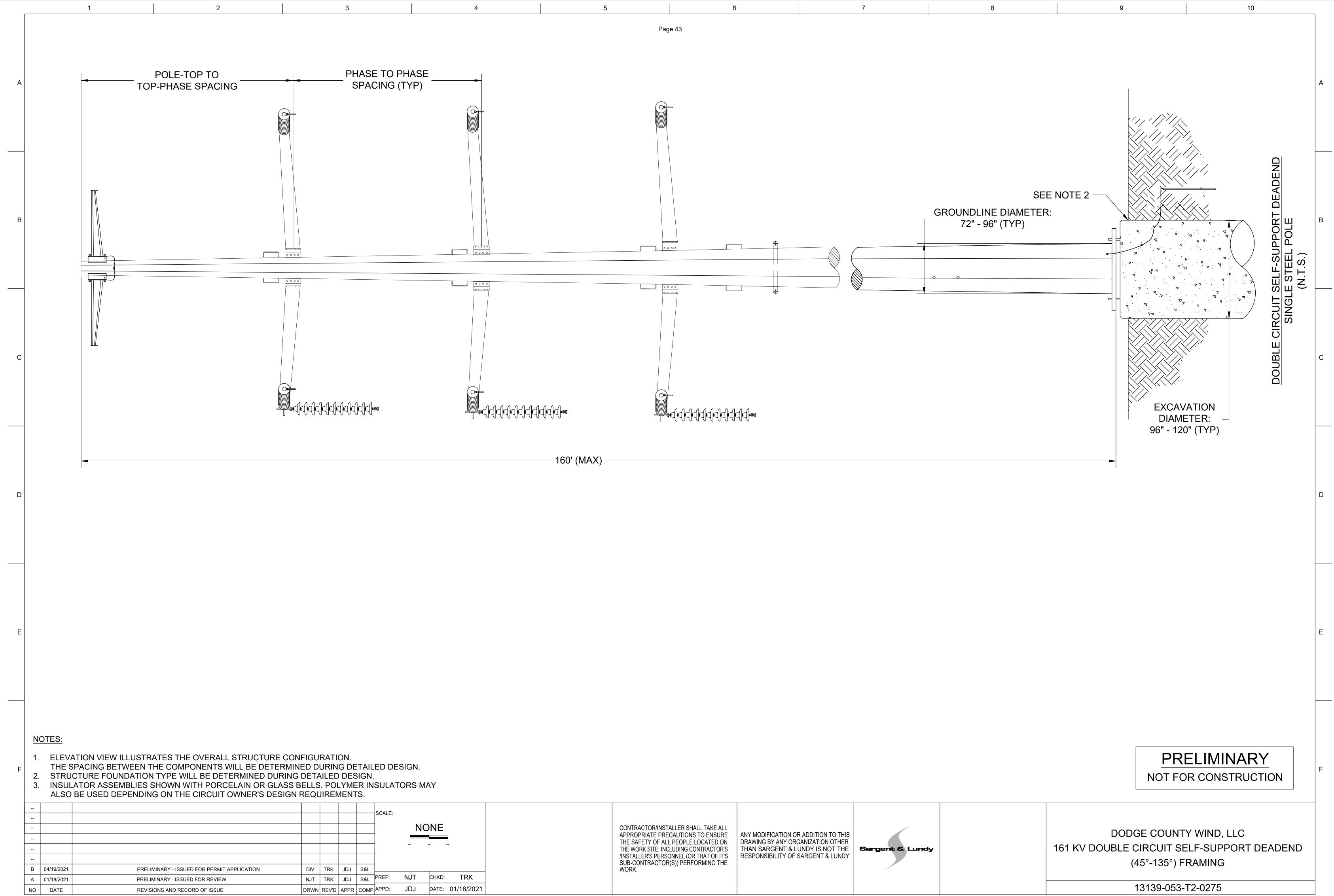
JDJ DATE: 01/18/2021







	CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE; INCLUDING CONTRACTOR'S /INSTALLER'S PERSONNEL (OR THAT OF IT'S SUB-CONTRACTOR(S)) PERFORMING THE WORK.	ANY MODIFICATION OF DRAWING BY ANY ORO THAN SARGENT & LI RESPONSIBILITY OF S
--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------



CONTRACTOR/INSTALLER SHALL TAKE ALL
APPROPRIATE PRECAUTIONS TO ENSURE
THE SAFETY OF ALL PEOPLE LOCATED ON
THE WORK SITE; INCLUDING CONTRACTOR'S
/INSTALLER'S PERSONNEL (OR THAT OF IT'S
SUB-CONTRACTOR(S)) PERFORMING THE
WORK.