

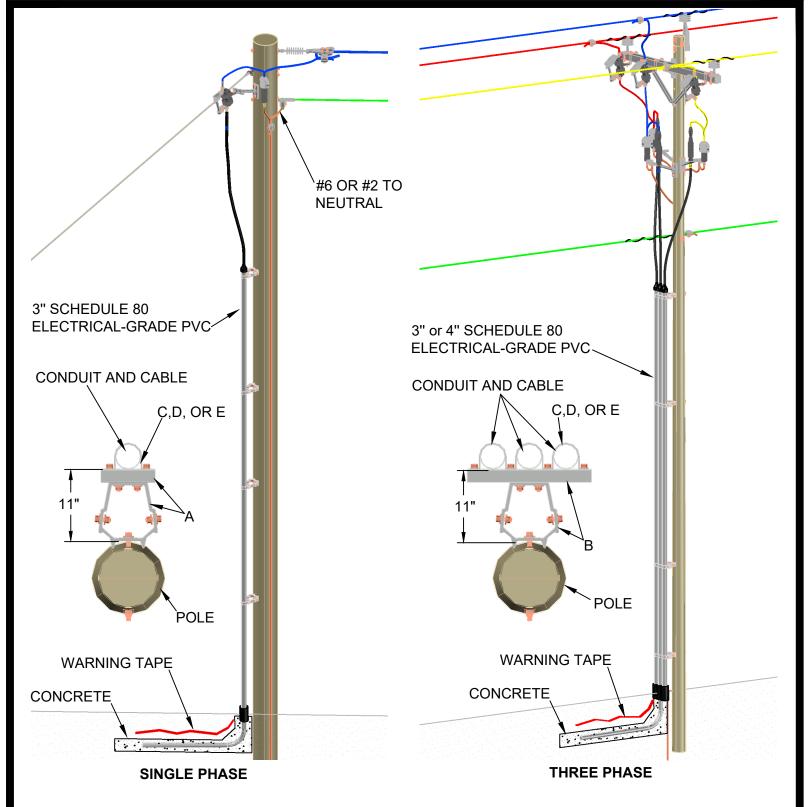
Unit	Item	Material	Description	1/0 Al Single	1/0 Al Two	1/0 Al Three	4/0 Cu	500 Cu Three	1000 AL
Oilit	iteiii	Number	Description	Phase	Phase	Phase	Three Phase	Phase	Three Phase
U-STANDARD-2	а	2000832	Riser Pole Standard 2"	1					
U-STANDARD-3	b	2000833	Riser Pole Standard 3"		1				
U-STANDARD-5	С	2000834	Riser Pole Standard 5"			1	1	1	
U-STANDARD-6	d	2000835	Riser Pole Standard 6"						1
U-VENT-BOOT-2_3	е	2000836	Riser Vent Boot 2" & 3" PVC	1	1				
U-VENT-BOOT-5	f	2000837	Riser Vent Boot 5" PVC			1	1	1	
U-VENT-BOOT-6	g	2000838	Riser Vent Boot 6" PVC						1



PEDERNALES ELECTRIC
COOPERATIVE, INC.
CONSTRUCTION ASSEMBLY UNIT

Riser Pole Standard and Riser Vent Boots

drawn:	approved	date:	U-STANDARD
JBS	MJB	January 26, 2011	U-VENT-BOOT



NESC Rule 217A2c: Standoff brackets on supporting structures shall be arranged so that there is not less than 8 ft. (2.45 m) between either: (1) The lowest bracket and ground or other permanently installed accessible surface, or (2) the two lowest brackets. Exception: This rule does not apply where supporting structures are isolated.

REV A DATE 12/4/2024 REVISION ISSUE FOR CONSTRUCTION

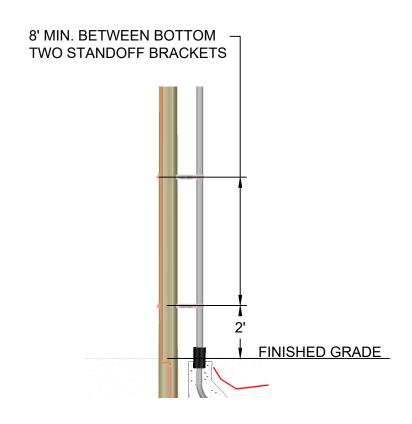
BY AMJ CHK SSS APR MMG



CONSTRUCTION ASSEMBLY UNIT

SINGLE-PHASE AND THREE-PHASE RISER POLE CONDUIT STANDOFF BRACKETS PAGE 1 OF 2

drawn:	approved:	date:	UM2-1
AMJ	MMG	12/4/2024	UM2-3



ITEM	MATERIAL NUMBER	DESCRIPTION	UM2-1.2	UM2-1.3	UM2-1.4
Α	2000146	BRACKET CONDUIT 9" STANDOFF 12"	1	1	1
В	2000147	BRACKET CONDUIT 9" STANDOFF 24"			
С	2000908	STRAP KIT 2"	1		
D	2000909	STRAP KIT 3"		1	
Е	2000910	STRAP KIT 4"			1

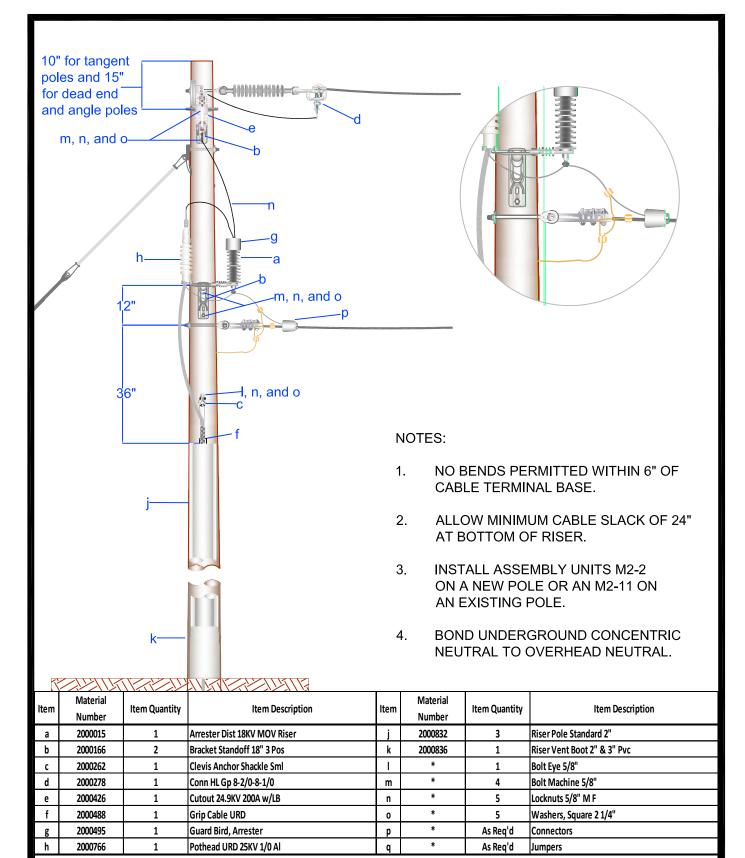
ITEN	1		TERIAL DESCRIPTION		DESCRIPTION	UM2-3.	2 L	IM2-3	.3	UM2-	-3.4	
Α		2000	146	BR	ACKET CONDUIT 9" STANDOFF	12"						
В		2000	147	BR	BRACKET CONDUIT 9" STANDOFF 24"				1		1	
С		20009	908		STRAP KIT 2"		3					
D		20009	909		STRAP KIT 3"				3			
Е		20009	910 STRAP KIT 4"						3			
REV	Α	DATE	12/4/20	24 REVISION	ISSUE FOR CONSTRUCTION		BY	AMJ	CHK	SSS	S APR	MMG

P

CONSTRUCTION ASSEMBLY UNIT

SINGLE-PHASE AND THREE-PHASE RISER POLE CONDUIT STANDOFF BRACKETS PAGE 2 OF 2

drawn:	approved:	date:	UM2-1
AMJ	MMG	12/4/2024	UM2-3



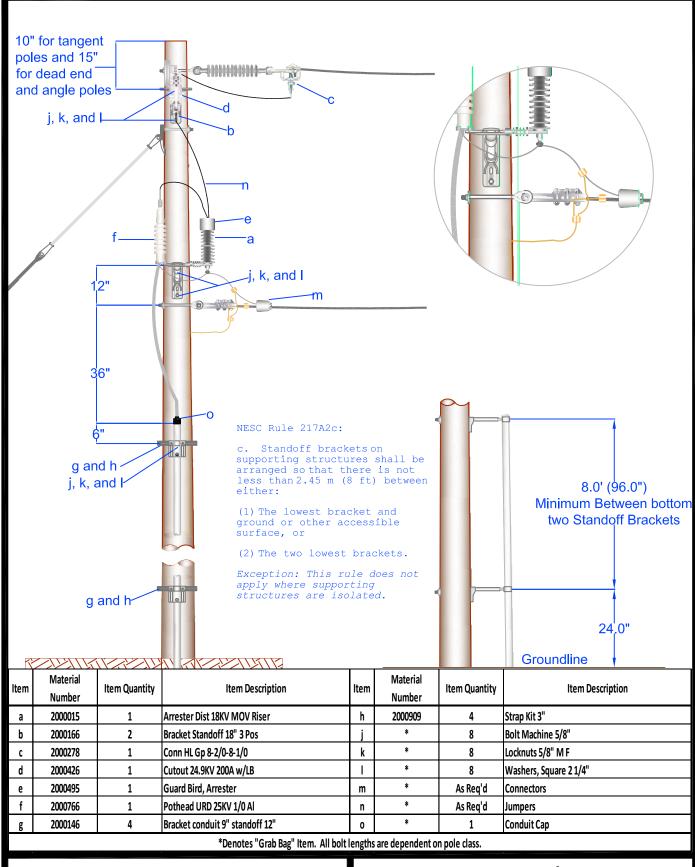


PEDERNALES ELECTRIC
COOPERATIVE, INC.
CONSTRUCTION ASSEMBLY UNIT

Single Phase #1/0 Riser

drawn:	approved	date:	
JBS	MJB	April 7, 2014	

VUM2-4



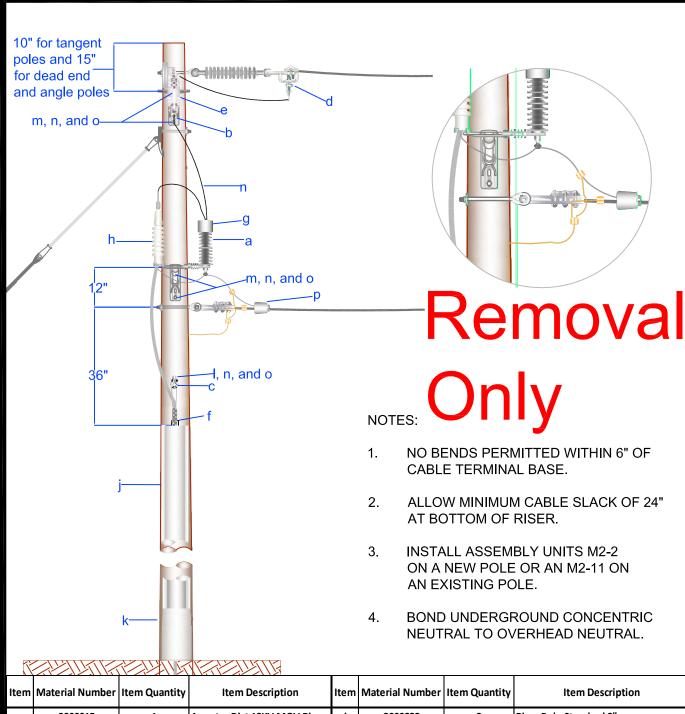
Pedernales

PEDERNALES ELECTRIC
COOPERATIVE, INC.
CONSTRUCTION ASSEMBLY UNIT

Single Phase #1/0 Riser With Standoffs

drawn:	approved	date:	
JBS	MJB	February 20, 2012	

VUM2-4S



Item	Material Number	Item Quantity	Item Description	Item	Material Number	Item Quantity	Item Description
а	2000015	1	Arrester Dist 18KV MOV Riser	j	2000833	3	Riser Pole Standard 3"
b	2000166	1	Bracket Standoff 18" 3 Pos	k	2000836	1	Riser Vent Boot 2" & 3" Pvc
С	2000262	1	Clevis Anchor Shackle Sml	ı	*	1	Bolt Eye 5/8"
d	2000278	1	Conn HL Gp 8-2/0-8-1/0	m	*	4	Bolt Machine 5/8"
е	2000426	1	Cutout 24.9KV 200A w/LB	n	*	5	Locknuts 5/8" M F
f	2000488	1	Grip Cable URD	0	*	5	Washers, Square 2 1/4"
g	2000495	1	Guard Bird, Arrester	р	*	As Req'd	Connectors
h	2000767	1	Pothead URD 25KV 4/0 CU	q	*	As Req'd	Jumpers

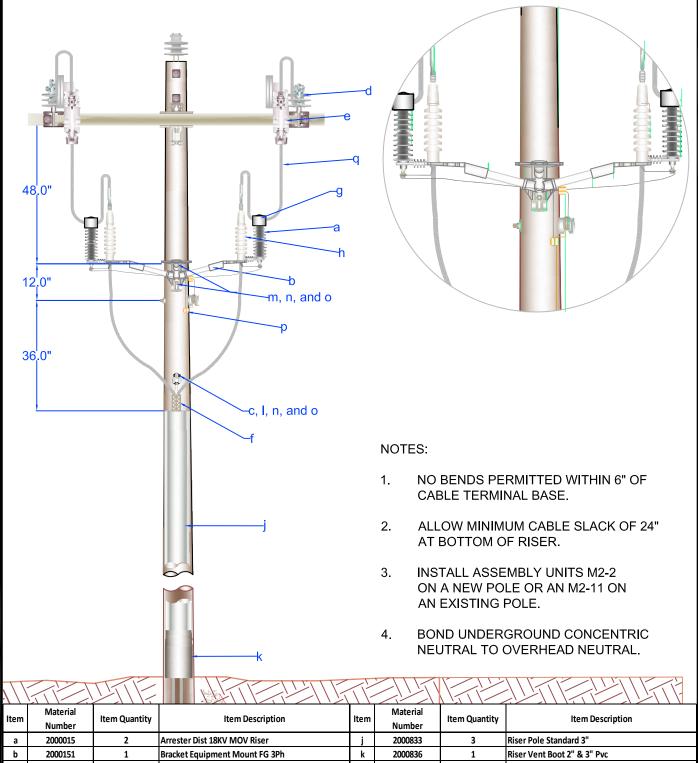


PEDERNALES ELECTRIC
COOPERATIVE, INC.
CONSTRUCTION ASSEMBLY UNIT

Single Phase #4/0 Cu Riser

drawn:	approved	date:	
JBS	MJB	March 14, 2012	

VUM2-4.1



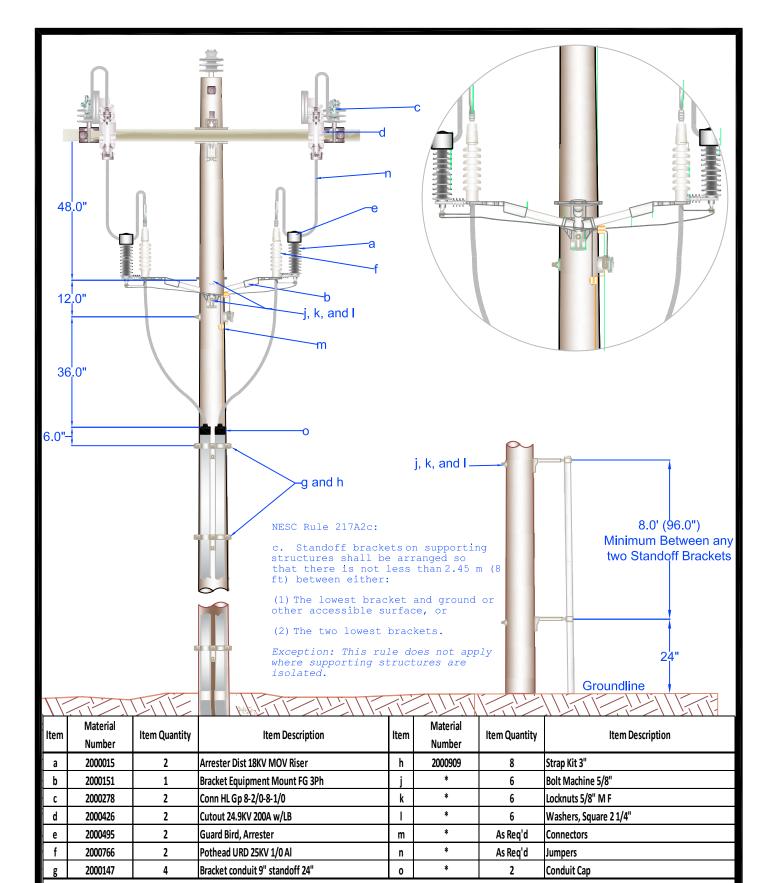
Item	Material Number	Item Quantity	Item Description	Item	Material Number	Item Quantity	Item Description
а	2000015	2	Arrester Dist 18KV MOV Riser	j	2000833	3	Riser Pole Standard 3"
b	2000151	1	Bracket Equipment Mount FG 3Ph	k	2000836	1	Riser Vent Boot 2" & 3" Pvc
С	2000262	1	Clevis Anchor Shackle Sml	I	*	1	Bolt Eye 5/8"
d	2000278	2	Conn HL Gp 8-2/0-8-1/0	m	*	2	Bolt Machine 5/8"
е	2000426	2	Cutout 24.9KV 200A w/LB	n	*	3	Locknuts 5/8" M F
f	2000488	2	Grip Cable URD	0	*	3	Washers, Square 2 1/4"
g	2000495	2	Guard Bird, Arrester	р	*	As Req'd	Connectors
h	2000766	2	Pothead URD 25KV 1/0 Al	q	*	As Req'd	Jumpers
h	2000766		Pothead URD 25KV 1/0 AI	q		As Req a	Jumpers



PEDERNALES ELECTRIC
COOPERATIVE, INC.
CONSTRUCTION ASSEMBLY UNIT

Two Phase #1/0 Riser

drawn:	approved	date:	\/IIN//2 F
JBS	MJB	February 7, 2012	VUM2-5



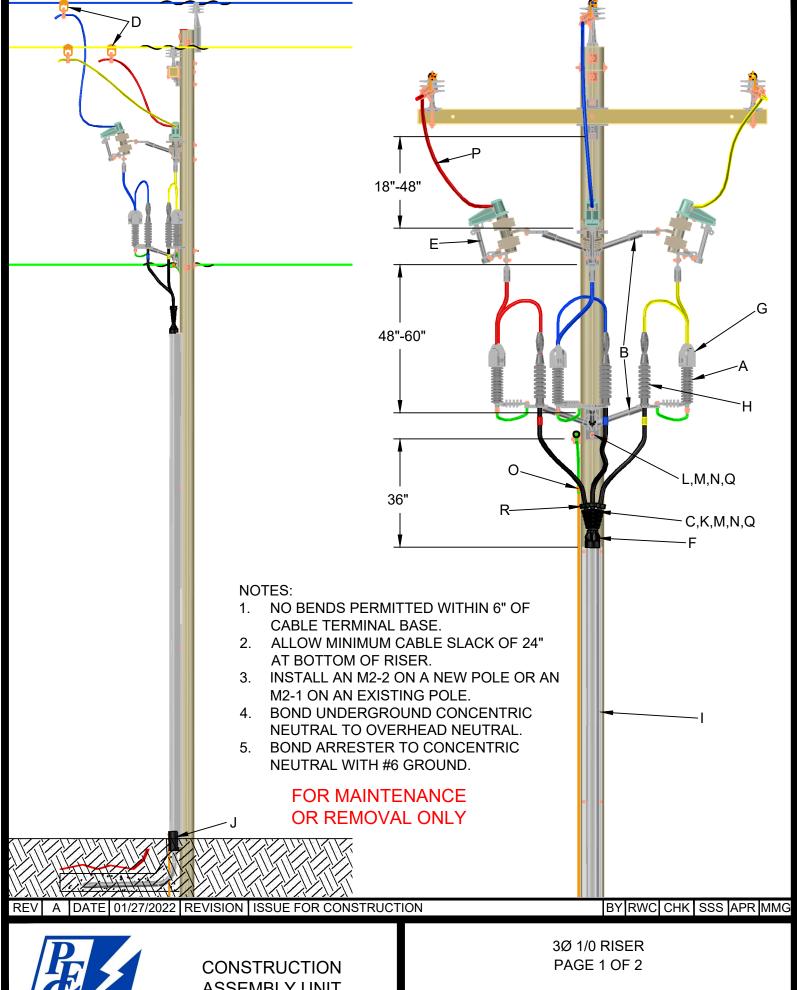


PEDERNALES ELECTRIC
COOPERATIVE, INC.
CONSTRUCTION ASSEMBLY UNIT

2Ph #1/0 Riser with Standoffs

drawn:	approved	date:	
JBS	MJB	February 7, 2012	

VUM2-5S



ASSEMBLY UNIT

\/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	date:	approved:	drawn:
\/\\ \\\\\\	01/27/2022	MMG	RWC

FOR MAINTENANCE OR REMOVAL ONLY

ITEM	MATERIAL NUMBER	DESCRIPTION	QUANTITY	
Α	2000015	ARRESTER DIST 18 kV MOV RISER	3	
В	2000151	BRACKET EQUIPMENT MOUNT FG 3PH	2	
С	2000262	CLEVIS ANCHOR SHACKLE SMALL	1	
D	2000278	CONNECTOR HL GP 8-2/0-8-1/0	3	
Е	2000425	CUTOUT 24.9 kV 100A W/LB	3	
F	2000488	GRIP CABLE URD	3	
G	2000495	GUARD BIRD, ARRESTER	3	
Н	2000766	POTHEAD URD 25 kV 1/0 AL	3	
I	2000834	RISER POLE STANDARD 5"	3	
J	2000837	RISER VENT BOOT 5" PVC		
K	*	BOLT EYE 5/8" AS F		
L	*	BOLT MACHINE 5/8" AS RE		
M	*3000153	LOCKNUTS 5/8" MF	AS REQ'D	
N	*3000240 or	WASHER SQUARE FLAT 2 1/4" WITH 11/16" HOLE	AS REQ'D	
N	*3000237 or	WASHER SQUARE CURVED 4" WITH 15/16" HOLE	AS REQ'D	
N	*3000235	WASHER SQUARE CURVED 3" WITH 13/16" HOLE	AS REQ'D	
0	*2000347	CONNECTOR SPLIT BOLT GP 6 AS REC		
Р	*	JUMPERS AS REQ		
Q	*3000227	WASHER COIL 5/8" AS REQ'I		
R	2000145	BRACKET CABLE POSITIONER 3		
	*DENOTES "GRAB BA	G" ITEM. ALL BOLT LENGTHS DEPEND ON POLE CLASS.		

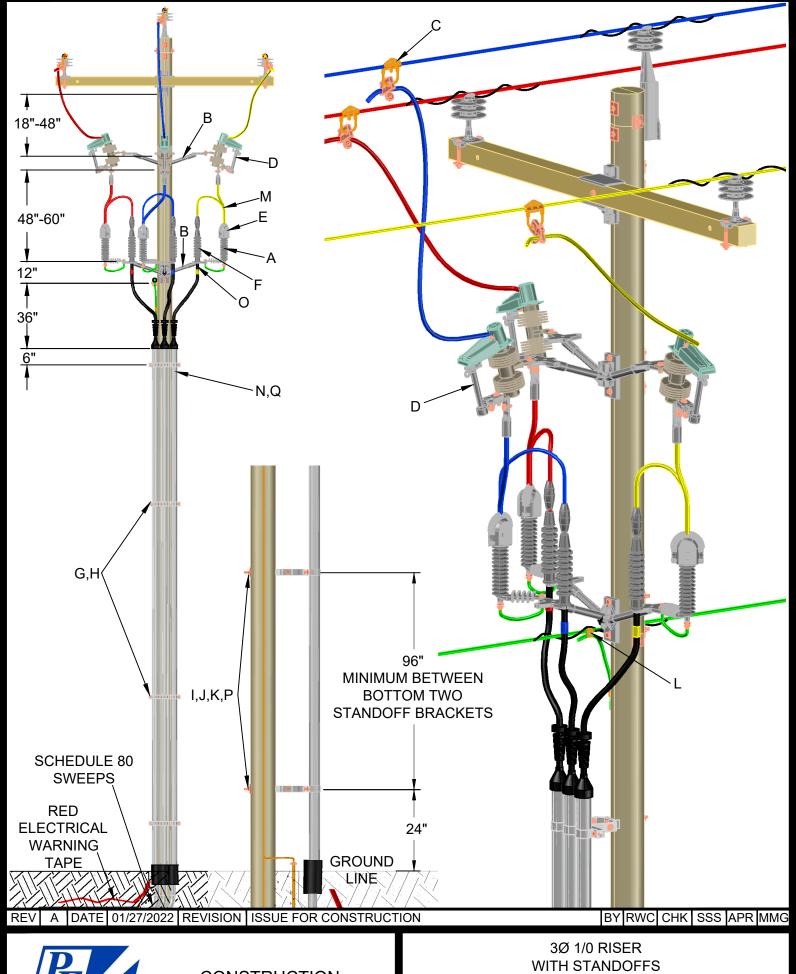
REV A DATE 01/27/2022 REVISION ISSUE FOR CONSTRUCTION BY RWC CHK SSS APR MMG



CONSTRUCTION ASSEMBLY UNIT

3Ø 1/0 RISER PAGE 2 OF 2

	data.		-1
VUM2-6	date:	approved:	drawn:
	01/27/2022	MMG	RWC





CONSTRUCTION ASSEMBLY UNIT

PAGE 1 OF 2

drawn:	approved:	date:	
RWC	MMG	01/27/2022	

VUM2-6S

NOTES:

- 1. NO BENDS PERMITTED WITHIN 6" OF CABLE TERMINAL BASE.
- 2. ALLOW MINIMUM CABLE SLACK OF 24" AT BOTTOM OF RISER.
- 3. INSTALL AN M2-2 ON A NEW POLE OR AN M2-1 ON AN EXISTING POLE.
- 4. BOND UNDERGROUND CONCENTRIC NEUTRAL TO OVERHEAD NEUTRAL.
- 5. BOND ARRESTER TO CONCENTRIC NEUTRAL WITH #6 GROUND.

			_		
ITEM	MATERIAL NUMBER	DESCRIPTION QUAN			
Α	2000015	ARRESTER DIST 18 kV MOV RISER	3		
В	2000151	BRACKET EQUIPMENT MOUNT FG 3PH 2			
С	2000278	CONNECTOR HL GP 8-2/0-8-1/0	3		
D	2000425	CUTOUT 24.9 kV 100A W/LB	3		
Е	2000495	GUARD BIRD, ARRESTER	3		
F	2000766	POTHEAD URD 25 kV 1/0 AL	3		
G	2000147	BRACKET CONDUIT 9" STANDOFF 24"	4		
Н	2000909	STRAP KIT 3"	12		
I	*	BOLT MACHINE 5/8" AS R			
J	*3000153	LOCKNUTS 5/8" MF AS R			
K	*3000240 or	WASHER SQUARE FLAT 2 1/4" WITH 11/16" HOLE	AS REQ'D		
K	*3000237 or	WASHER SQUARE CURVED 4" WITH 15/16" HOLE	AS REQ'D		
K	*3000235	WASHER SQUARE CURVED 3" WITH 13/16" HOLE	AS REQ'D		
L	*2000347	CONNECTOR SPLIT BOLT GP 6	AS REQ'D		
М	*	JUMPERS	AS REQ'D		
N	2000458	FLOOD SEAL 3"	3		
0	2000145	BRACKET CABLE POSITIONER 3			
Р	*3000227	WASHER COIL 5/8" AS REQ'I			
Q	2002699	GRIP CABLE URD CONDUIT RISER RINGGRIP 3" 3			
	*DENOTES "GRAB BAG" ITEM. ALL BOLT LENGTHS DEPEND ON POLE CLASS.				

NESC RULE 217A2c:

STANDOFF BRACKETS ON SUPPORTING STRUCTURES SHALL BE ARRANGED SO THAT THERE IS NOT LESS THAN 2.45 M (8 FT) BETWEEN EITHER:

- (1) THE LOWEST BRACKET AND GROUND OR OTHER ACCESSIBLE SURFACE, OR
- (2) THE TWO LOWEST BRACKETS.

REV A DATE 01/27/2022 REVISION ISSUE FOR CONSTRUCTION

EXCEPTION: THIS RULE DOES NOT APPLY WHERE SUPPORTING STRUCTURES ARE ISOLATED.

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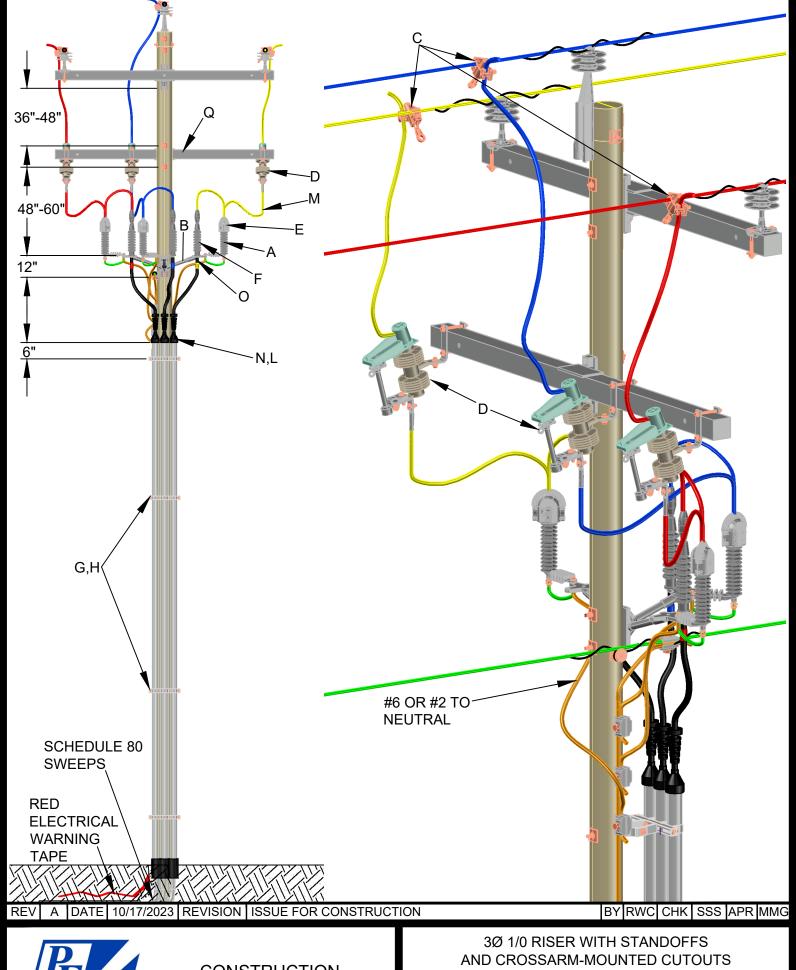
CONSTRUCTION ASSEMBLY UNIT

3Ø 1/0 RISER WITH STANDOFFS PAGE 2 OF 2

drawn:	approved:	date:
RWC	MMG	01/27/2022

VUM2-6S

BY RWC CHK SSS APR MMG



CONSTRUCTION ASSEMBLY UNIT

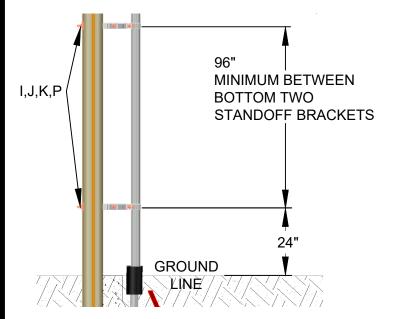
PAGE 1 OF 2

drawn:	approved:	date:	
RWC	MMG	10/17/2023	V

UM2-6SC

ITEM	MATERIAL NUMBER	DESCRIPTION	QUANTITY
Α	2000015	ARRESTER DIST 18 kV MOV RISER	3
В	2000151	BRACKET EQUIPMENT MOUNT FG 3PH	1
С	2000278	CONNECTOR HL GP 8 - 2/0 - 8 - 1/0	3
D	2000425	CUTOUT 24.9 kV 100A W/LB	3
Ε	2000495	GUARD BIRD, ARRESTER	3
F	2000766	POTHEAD URD 25 kV 1/0 AL	3
G	2000147	BRACKET CONDUIT 9" STANDOFF 24"	4
Н	2000909	STRAP KIT 3"	12
- 1	*	BOLT MACHINE 5/8" AS REC	
J	*3000153	LOCKNUTS 5/8" MF AS REC	
K	*3000240 or	WASHER SQUARE FLAT 2 1/4" WITH 11/16" HOLE AS REQ	
K	*3000237 or	WASHER SQUARE CURVED 4" WITH 15/16" HOLE AS REQ'E	
K	*3000235	WASHER SQUARE CURVED 3" WITH 13/16" HOLE	AS REQ'D
L	2002699	GRIP CABLE URD CONDUIT RISER RINGGRIP 3" 3	
М	*	JUMPERS AS REQ'D	
N	2000458	FLOOD SEAL 3" 3	
0	2000145	BRACKET CABLE POSITIONER 3	
Р	*3000227	WASHER COIL 5/8" AS REQ'D	
Q	2001328	XARM FBGLS 8' TANGENT	1

*DENOTES "GRAB BAG" ITEM. ALL BOLT LENGTHS DEPEND ON POLE CLASS.



NOTES:

- NO BENDS PERMITTED WITHIN 6" OF CABLE TERMINAL BASE.
- 2. ALLOW MINIMUM CABLE SLACK OF 24" AT BOTTOM OF RISER.
- INSTALL AN M2-2 ON A NEW POLE OR AN M2-1 ON AN EXISTING POLE.
- BOND UNDERGROUND CONCENTRIC NEUTRAL TO OVERHEAD NEUTRAL.
- 5. BOND ARRESTER TO CONCENTRIC NEUTRAL WITH #6 GROUND.
- 6. WHEN POSSIBLE, CUTOUT ARM SHOULD FACE OPPOSITE THE POTHEAD BRACKET.

NESC RULE 217A2c:

STANDOFF BRACKETS ON SUPPORTING STRUCTURES SHALL BE ARRANGED SO THAT THERE IS NOT LESS THAN 2.45 M (8 FT) BETWEEN EITHER:

- (1) THE LOWEST BRACKET AND GROUND OR OTHER ACCESSIBLE SURFACE, OR
- (2) THE TWO LOWEST BRACKETS.

EXCEPTION: THIS RULE DOES NOT APPLY WHERE SUPPORTING STRUCTURES ARE ISOLATED.

REV A DATE 10/17/2023 REVISION ISSUE FOR CONSTRUCTION

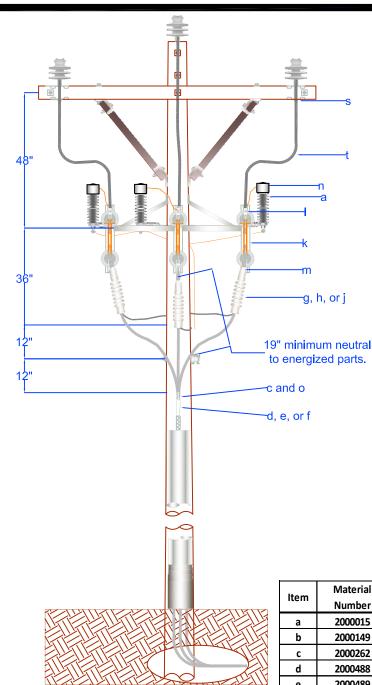
BY RWC CHK SSS APR MMG



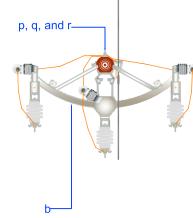
CONSTRUCTION ASSEMBLY UNIT

3Ø 1/0 RISER WITH STANDOFFS AND CROSSARM-MOUNTED CUTOUTS PAGE 2 OF 2

\	date:	approved:	drawn:
VUM2-6SC	10/17/2023	MMG	RWC



Removal Only



Specify VUM2-7.1 for use with 4/0 copper.
Specify VUM2-8.1 for use with 500 mcm copper.
Specify VUM2-9.1 for use with 1000 mcm copper.

Item	Material Number	Item Description	VUM2-7.1	VUM2-8.1	VUM2-9.1
а	2000015	Arrester Dist 18KV MOV Riser 3 3		3	
b	2000149	Bracket Equip Mount 3Ph Large	1	1	1
С	2000262	Clevis Anchor Shackle Sml	3	3	3
d	2000488	Grip Cable URD	3		
е	2000489	Grip Cable URD 1 3/4-2"		3	
f	2000490	Grip Cable URD 1 5/8-2 1/2"			3
g	2000767	Pothead URD 25KV 4/0 CU	3		
h	2000768	Pothead URD 25KV 500 CU 3		3	
j	2000769	Pothead URD 25KV 750-1000		3	
k	2000930	Switch Disc 25KV 600A 3 3		3	3
- 1	2000376	Conn Ter 500-800 2 Hole		9	6
m	2000378	Conn Ter Comp 1000 Str 2 H			3
n	2000495	Guard Bird, Arrester	3	3	3
0	*	Bolt Eye 5/8"	3	3	3
р	*	Bolt Machine 5/8"	2	2	2
q	*3000236	Washer Sq Curved 3x3 1 1/2 H 5 5		5	5
r	*3000153	Locknuts 5/8" M F	As Req'd	As Req'd	As Req'd
s	*	Wedge Connectors	As Req'd	As Req'd	As Req'd
t	*	Jumpers	As Req'd	As Req'd	As Req'd

Notes:

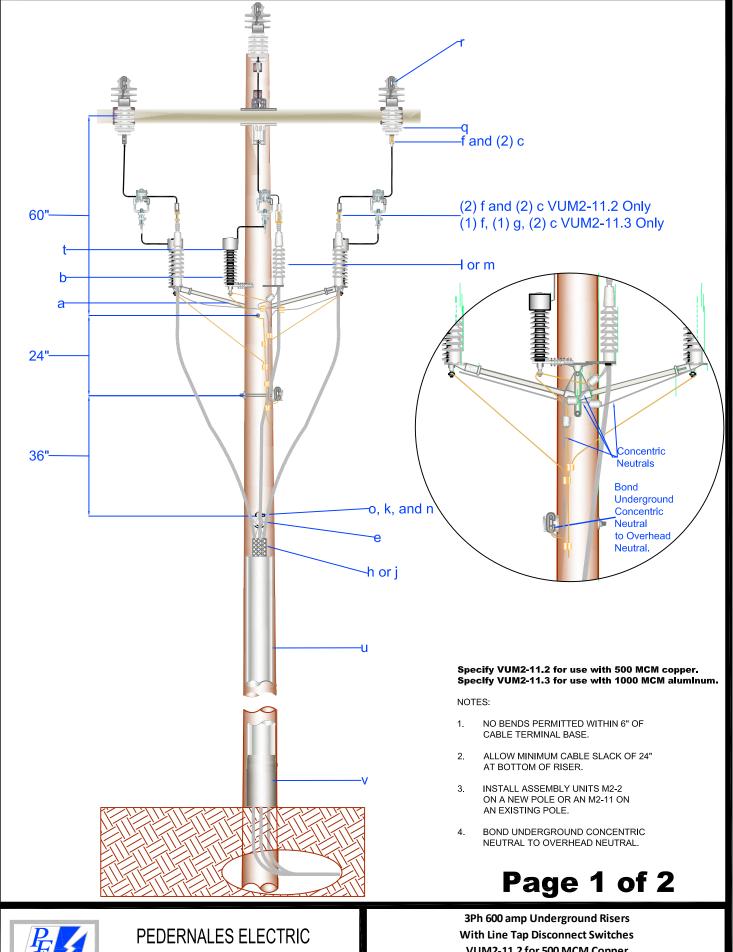
- 1. TOTAL ARRESTER LEAD LENGTH MUST BE UNDER 3'.
- 2. NO BENDS PERMITTED WITHIN 6" OF CABLE TERMINAL BASE.
- 3. ALLOW MINIMUM CABLE SLACK OF 24" AT BOTTOM OF RISER.
- 4. INSTALL M2-2 GROUND ON NEW POIE OR M2-11 GROUND ON EXISTING POLE.



PEDERNALES ELECTRIC
COOPERATIVE, INC.
CONSTRUCTION ASSEMBLY UNIT

3 Ph 600 amp Underground Risers with Solid Blade Disconnect

VUM2-7.1, VUM2-8.1	date:	approved	drawn:
and VUM2-9.1	February 23, 2016	MJB	JBS

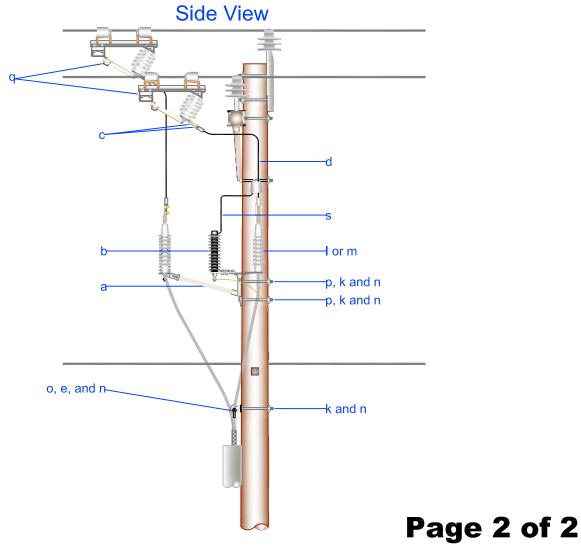




COOPERATIVE, INC. CONSTRUCTION ASSEMBLY UNIT

VUM2-11.2 for 500 MCM Copper VUM2-11.3 for 1000 MCM Aluminum

drawn:	approved	date:	VUM2-11.2
JBS	MJB	March 12, 2012	VUM2-11.3



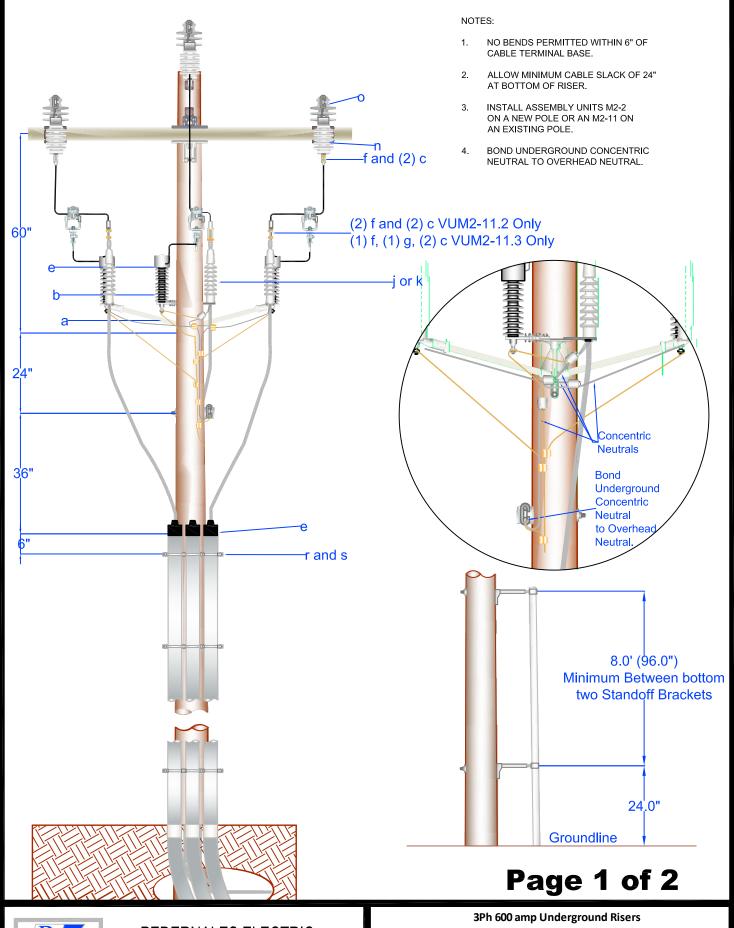
Item	Material Number	Item Description	VUM2-11.2	VUM2-11.3
а	2000151	Bracket Equipment Mount FG 3Ph	1	1
b	2000015	Arrester Dist 18KV MOV Riser	3	3
С	*2000039	Bolt Bronze 1/2" x 2"	12	12
d	2000278	Conn HL Gp 8-2/0-8-1/0	3	3
е	2000262	Clevis Anchor Shackel Sml	3	3
f	2000376	Conn Ter 500-800 2 Hole	9	6
g	2000378	Conn Ter Comp 1000 Str 2 Hole	0	3
h	2000490	Grip Cable Urd 1 5/8 - 2"	0	3
j	2000489	Grip Cable Urd 13/4 - 2"	3	0
k	*3000153	Locknuts 5/8"	5	5
ı	2000768	Pothead Urd 25KV 500 Cu	3	0
m	2000769	Pothead Urd 25KV 750-1000	0	3
n	3000240	Washer Sq F 2 1/4	3	3
0	*	Bolt Eye 5/8"	3	3
р	*	Bolt Machine 5/8"	2	2
q	2000936	Switch Dis Solid Blade, Line Tap	3	3
r	*	Connectors	As Req'd	As Req'd
s	*	Jumpers	As Req'd	As Req'd
t	2000495	Guard Bird, Arrester	3	3
u	2000834	Riser Standard 5"	3	3
V	2000837	Riser Vent Boot 5" PVC	1	1
1	*-	and a High state of the state o		



PEDERNALES ELECTRIC
COOPERATIVE, INC.
CONSTRUCTION ASSEMBLY UNIT

3Ph 600 amp Underground Risers
With Line Tap Disconnect Switches
VUM2-11.2 for 500 MCM Copper
VUM2-11.3 for 1000 MCM Aluminum

VUM2-11.2	date:	approved	drawn:
VUM2-11.3	February 23, 2016	MJB	JBS

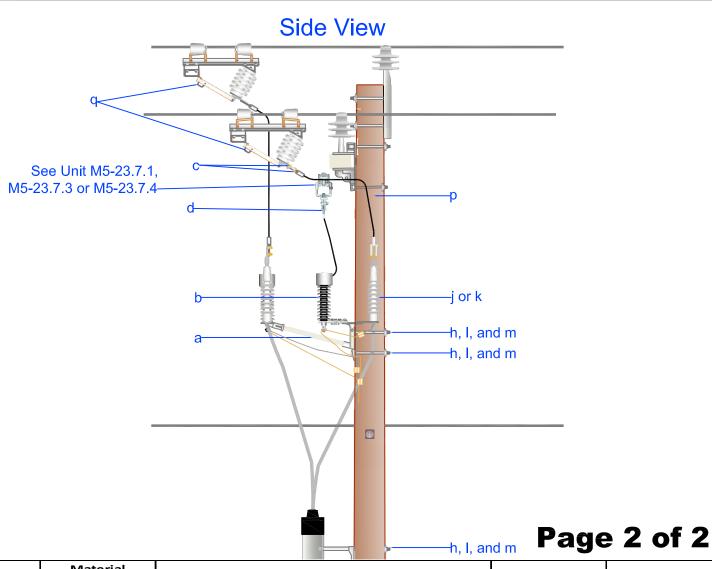




PEDERNALES ELECTRIC
COOPERATIVE, INC.
CONSTRUCTION ASSEMBLY UNIT

3Ph 600 amp Underground Risers
With Line Tap Disconnect Switches With Standoffs
VUM2-11.2S for 500 MCM Copper
VUM2-11.3S for 1000 MCM Aluminum

drawn:	approved	date:	VUM2-11.2S
JBS	MJB	March 12, 2012	VUM2-11.3S



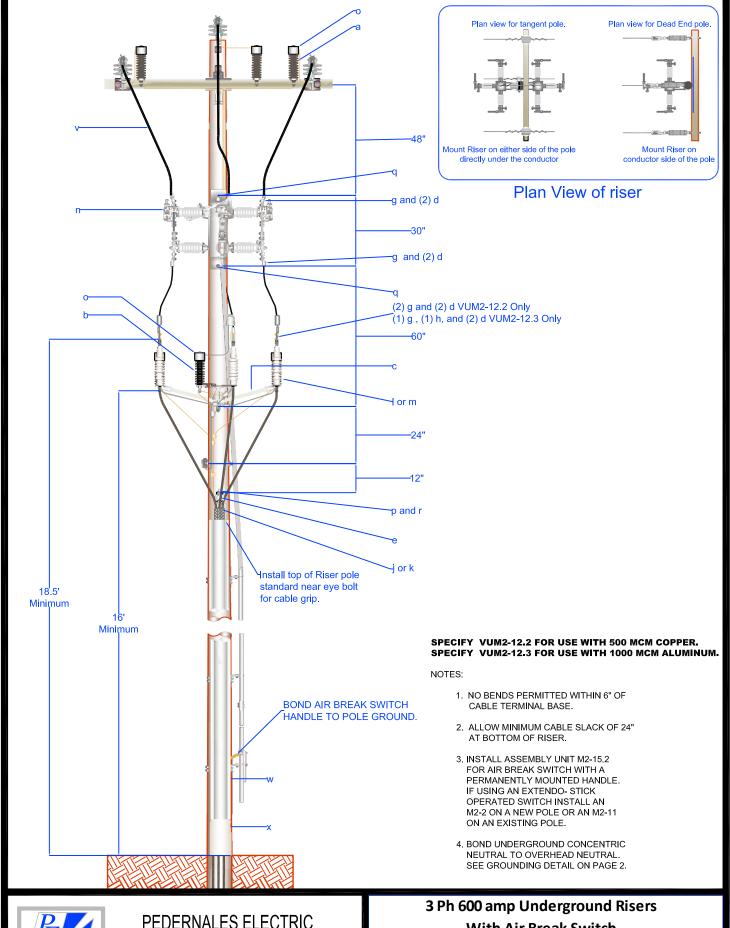
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Item	Material Number	Item Description	VUM2-11.2S	VUM2-11.3S	
а	2000151	Bracket Equipment Mount FG 3Ph	1	1	
b	2000015	Arrester Dist 18KV MOV Riser	3	3	
С	*2000039	Bolt Bronze 1/2" x 2"	12	12	
d	2000278	Conn HL Gp 8-2/0-8-1/0	3	3	
е	*	Conduit cap	3	3	
f	2000376	Conn Ter 500-800 2 Hole	9	6	
g	2000378	Conn Ter Comp 1000 Str 2 Hole	0	3	
h	*3000153	Locknuts 5/8"	6	6	
j	2000768	Pothead Urd 25KV 500 Cu	3	0	
k	2000769	Pothead Urd 25KV 750-1000	0	3	
I	*3000240	Washer Sq F 2 1/4	6	6	
m	*	Bolt Machine 5/8"	6	6	
n	2000936	Switch Dis Solid Blade, Line Tap	3	3	
О	*	Connectors	As Req'd	As Req'd	
р	*	Jumpers	As Req'd	As Req'd	
q	2000495	Guard Bird, Arrester	3	3	
r	2000147	Bracket conduit 9" standoff 24"	4	4	
s	2000910	Strap Kit 4"	12	12	
	*Departure "Cycle Pag" Hayes All hold laughts are departed as a pale class				



PEDERNALES ELECTRIC
COOPERATIVE, INC.
CONSTRUCTION ASSEMBLY UNIT

3Ph 600 amp Underground Risers
With Line Tap Disconnect Switches With Standoffs
VUM2-11.2S for 500 MCM Copper
VUM2-11.3S for 1000 MCM Aluminum

drawn:	approved	date:	VUM2-11.2S
JBS	MJB	March 12, 2012	VUM2-11.3S

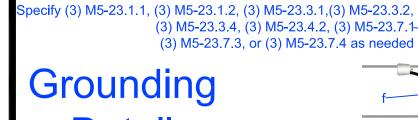


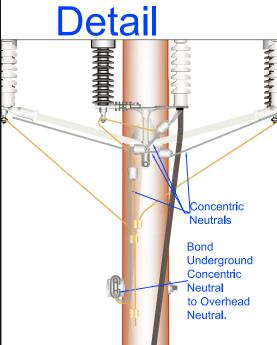


PEDERNALES ELECTRIC
COOPERATIVE, INC.
CONSTRUCTION ASSEMBLY UNIT

3 Ph 600 amp Underground Risers With Air Break Switch Page 1 of 2

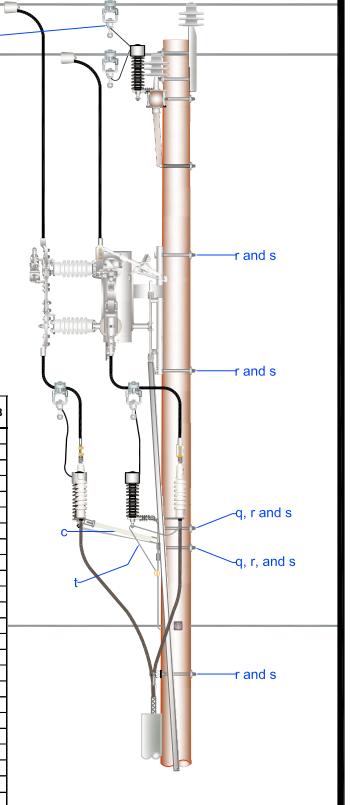
VUM2-12.	date:	approved	drawn:
VUM2-12.	March 12, 2012	MJB	JBS





		Concentric Neutrals Bond Underground Concentric Neutral to Overhead Neutral.	A A A A A Property Of	
Item	Material Number	Item Description	۷	U

ltem	Material	Item Description	VUM2-12.2	VUM2-12.3
iteili	Number	item bescription	V 01V1Z-1Z.Z	V 0 IVIZ-12.3
а	2000014	Arrester Dist 18KV MOV	3	3
b	2000015	Arrester Dist 18KV MOV Riser	3	3
С	2000151	Bracket Equipment Mount FG 3Ph	1	1
d	*2000039	Bolt Bronze 1/2" x 2"	12	12
е	2000262	Clevis Anchor Shackle Sml	3	3
f	2000278	Conn HL Gp 8-2/0-8-1/0	6	6
g	2000376	Conn Ter 500-800 2 Hole	6	6
h	2000378	Conn Ter Comp 1000 Str 2 H		3
j	2000489	Grip Cable URD 1 3/4-2"	3	
k	2000490	Grip Cable URD 1 5/8-2 1/2"		3
_	2000768	Pothead URD 25KV 500 CU	3	
m	2000769	Pothead URD 25KV 750-1000		3
n	2000948	Switch Vert Break 25KV 900A	1	1
0	2000495	Guard Bird, Arrester	6	6
р	*	Bolt Eye 5/8"	3	3
q	*	Bolt Machine 5/8"	2	2
r	*3000240	Washer Sq F 2 1/4	7	7
S	*3000153	Locknuts 5/8" M F	As Req'd	As Req'd
t	*2001295	Wire Copper Clad Steel #6 Solid	As Req'd	As Req'd
u	*	Connectors	As Req'd	As Req'd
٧	*	Jumpers	As Req'd	As Req'd
w	2000834	Riser Standard 5"	3	3
х	2000837	Riser Vent Boot 5" PVC	1	1
		-		

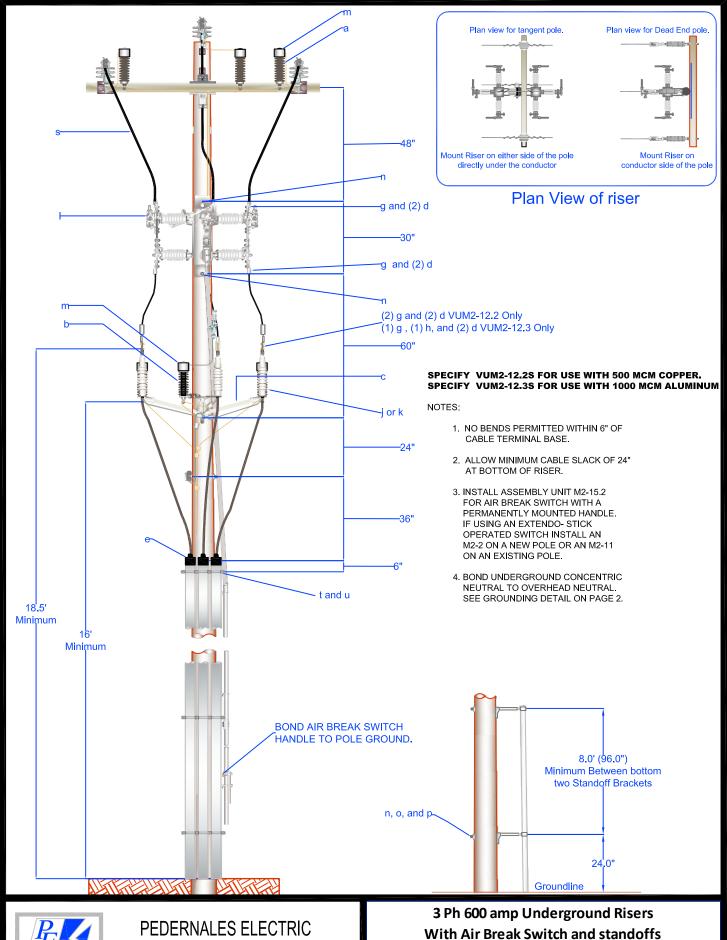


Side View



PEDERNALES ELECTRIC COOPERATIVE, INC. CONSTRUCTION ASSEMBLY UNIT 3 Ph 600 amp Underground Risers With Air Break Switch Page 2 of 2

drawn:	approved	date:	VUM2-12.2
JBS	MJB	February 23, 2016	VUM2-12.3

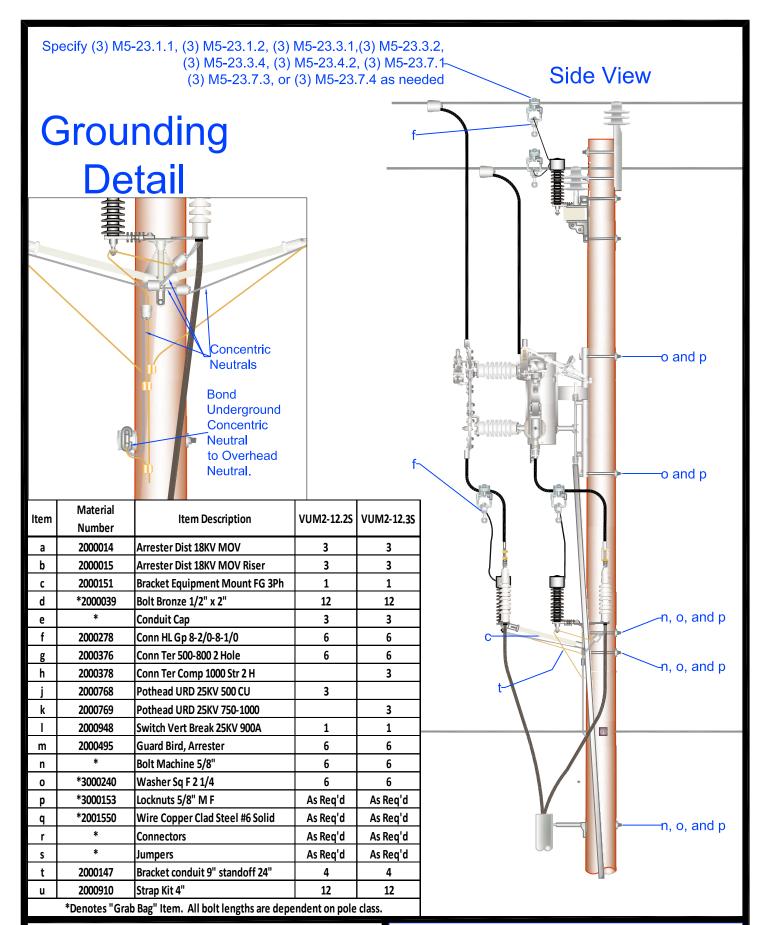




COOPERATIVE, INC. CONSTRUCTION ASSEMBLY UNIT

Page 1 of 2

drawn:	approved	date:	VUM2-12.2S
JBS	MJB	March 12, 2012	VUM2-12.3S

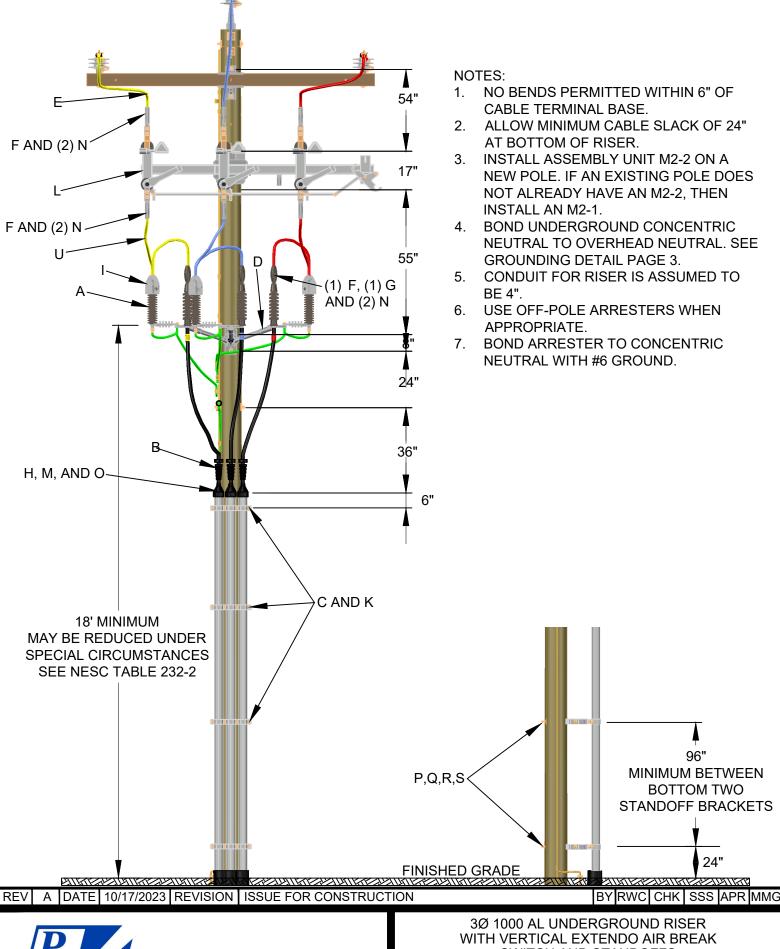




PEDERNALES ELECTRIC
COOPERATIVE, INC.
CONSTRUCTION ASSEMBLY UNIT

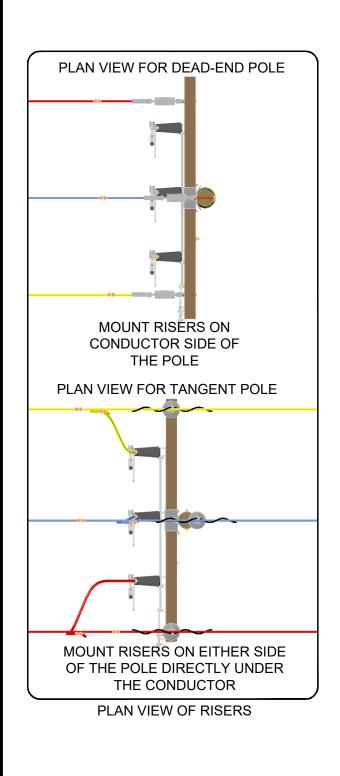
3 Ph 600 amp Underground Risers
With Air Break Switch and standoffs
Page 2 of 2

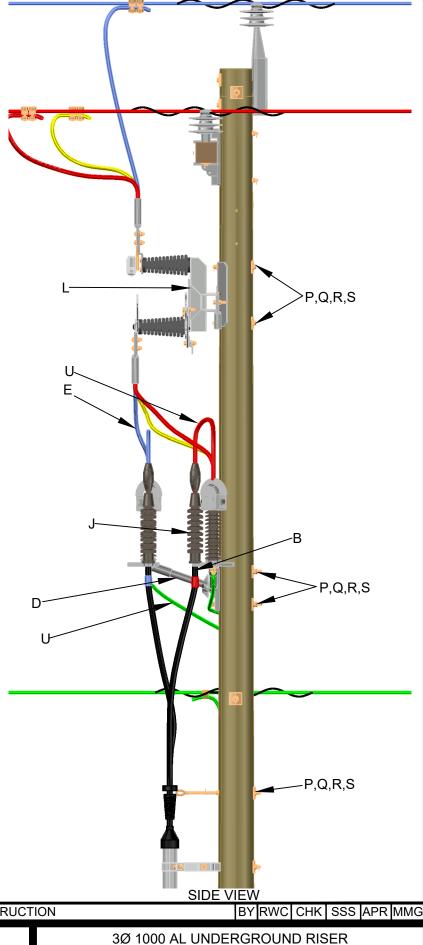
drawn:	approved	date:	VUM2-12.2S
JBS	MJB	March 12, 2012	VUM2-12.3S



CONSTRUCTION **ASSEMBLY UNIT** SWITCH AND STANDOFFS PAGE 1 OF 4

\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	date:	approved:	drawn:
VUM2-12.3E	10/17/2023	MMG	RWC





REV A DATE 10/17/2023 REVISION ISSUE FOR CONSTRUCTION

3Ø 1000 AL UNDERGROUND RISER WITH VERTICAL EXTENDO AIR BREAK

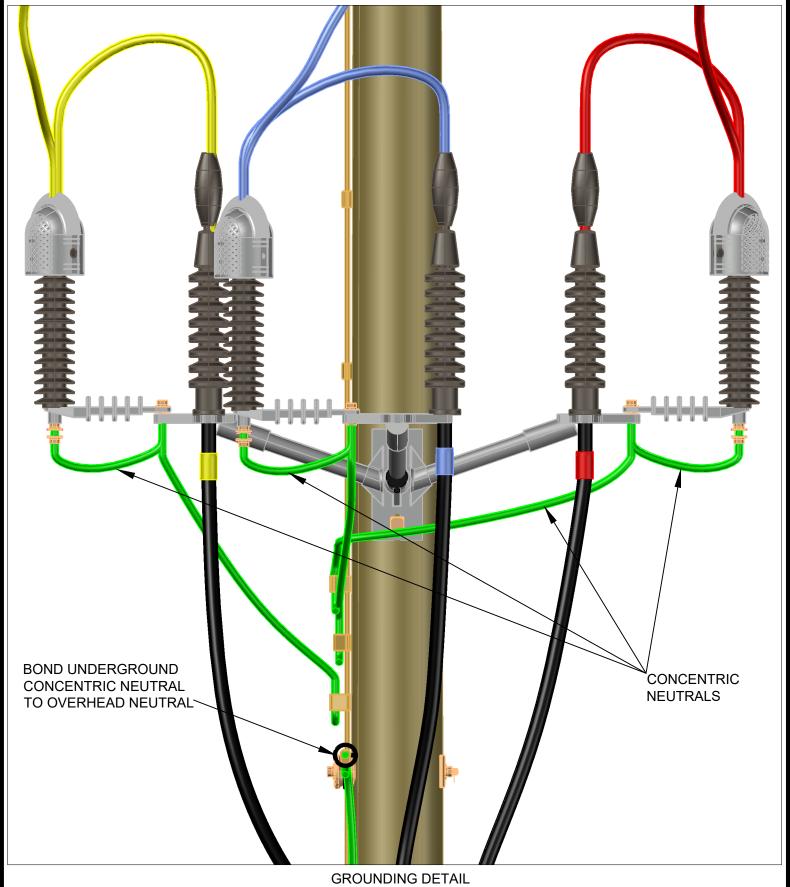
SWITCH AND STANDOFFS

PAGE 2 OF 4

drawn: approved: date: **RWC** MMG 10/17/2023

VUM2-12.3ES

CONSTRUCTION **ASSEMBLY UNIT**



REV A DATE 10/17/2023 REVISION ISSUE FOR CONSTRUCTION

BY RWC CHK SSS APR MMG



CONSTRUCTION ASSEMBLY UNIT 3Ø 1000 AL UNDERGROUND RISER WITH VERTICAL EXTENDO AIR BREAK SWITCH AND STANDOFFS PAGE 3 OF 4

drawn:	approved:	date:	,
RWC	MMG	10/17/2023	V

/UM2-12.3ES

MATERIAL NUMBER	DESCRIPTION	QTY			
2000015	ARRESTER DIST 18 kV MOV RISER	3			
2000145	BRACKET CABLE POSITIONER	3			
2000147	BRACKET CONDUIT 9" STANDOFF 24"	4			
2000151	BRACKET EQUIPMENT MOUNT FG 3Ø	1			
2000214	CABLE SERVICE WP 500 MCM COPPER	AS REQ'D			
2000376	CONNECTOR TERMINAL 500-800 2 HOLE	9			
2000378	CONNECTOR TERMINAL COMP 1000 STR 2 HOLE	3			
2000459	FLOOD SEAL 4"	3			
2000495	GUARD BIRD, ARRESTER	3			
2000769	POTHEAD URD 25 kV 500-1250	3			
2000910	STRAP KIT 4"	12			
2002750	SWITCH ABS VERTICAL EXTENDO FIBERGLASS 25 kV 900A	1			
2002700	GRIP CABLE URD CONDUIT RISER RING GRIP 4"	3			
*2000039	BOLT BRONZE 1/2" X 2"	AS REQ'D			
*	CONDUIT CAP	AS REQ'D			
*	BOLT MACHINE 5/8"	AS REQ'D			
*3000240 or	WASHER SQUARE FLAT 2 1/4" WITH 11/16" HOLE	AS REQ'D			
*3000237 or	WASHER SQUARE CURVED 4" WITH 15/16" HOLE	AS REQ'D			
*3000235	WASHER SQUARE CURVED 3" WITH 13/16" HOLE	AS REQ'D			
*3000153	LOCKNUTS 5/8" MF	AS REQ'D			
*3000227	WASHER COIL 5/8"	AS REQ'D			
*2001550	WIRE COPPER CLAD STEEL #6 SOLID	AS REQ'D			
*	JUMPERS	AS REQ'D			
*DENOTES "GRAB BAG" ITEM - ALL BOLT LENGTHS DEPEND ON POLE CLASS.					
	NUMBER 2000015 2000145 2000147 2000151 2000214 2000376 2000378 2000459 2000495 2000769 2000910 2002750 2002700 *2000039 * * * *3000240 or *3000235 *3000153 *3000227 *2001550 *	NUMBER DESCRIPTION 2000015 ARRESTER DIST 18 kV MOV RISER 2000145 BRACKET CABLE POSITIONER 2000147 BRACKET CONDUIT 9" STANDOFF 24" 2000151 BRACKET EQUIPMENT MOUNT FG 3Ø 2000214 CABLE SERVICE WP 500 MCM COPPER 2000376 CONNECTOR TERMINAL 500-800 2 HOLE 2000378 CONNECTOR TERMINAL COMP 1000 STR 2 HOLE 2000459 FLOOD SEAL 4" 2000495 GUARD BIRD, ARRESTER 2000769 POTHEAD URD 25 kV 500-1250 2000910 STRAP KIT 4" 2002750 SWITCH ABS VERTICAL EXTENDO FIBERGLASS 25 kV 900A 2002700 GRIP CABLE URD CONDUIT RISER RING GRIP 4" *2000039 BOLT BRONZE 1/2" X 2" * CONDUIT CAP * BOLT MACHINE 5/8" *3000240 or WASHER SQUARE FLAT 2 1/4" WITH 11/16" HOLE *3000237 or WASHER SQUARE CURVED 3" WITH 13/16" HOLE *3000235 WASHER SQUARE CURVED 3" WITH 13/16" HOLE *3000250 WASHER SQUARE CURVED 3" WITH 15/16" HOLE *3000250 WASHER SQUARE CURVED 3" WITH 15/16" HOLE			

NESC RULE 217A2c:

STANDOFF BRACKETS ON SUPPORTING STRUCTURES SHALL BE ARRANGED SO THAT THERE IS NOT LESS THAN 2.45 M (8 FT) BETWEEN EITHER:

- (1) THE LOWEST BRACKET AND GROUND OR OTHER ACCESSIBLE SURFACE, OR
- (2) THE TWO LOWEST BRACKETS.

EXCEPTION: THIS RULE DOES NOT APPLY WHERE SUPPORTING STRUCTURES ARE ISOLATED.

REV A DATE 10/17/2023 REVISION ISSUE FOR CONSTRUCTION

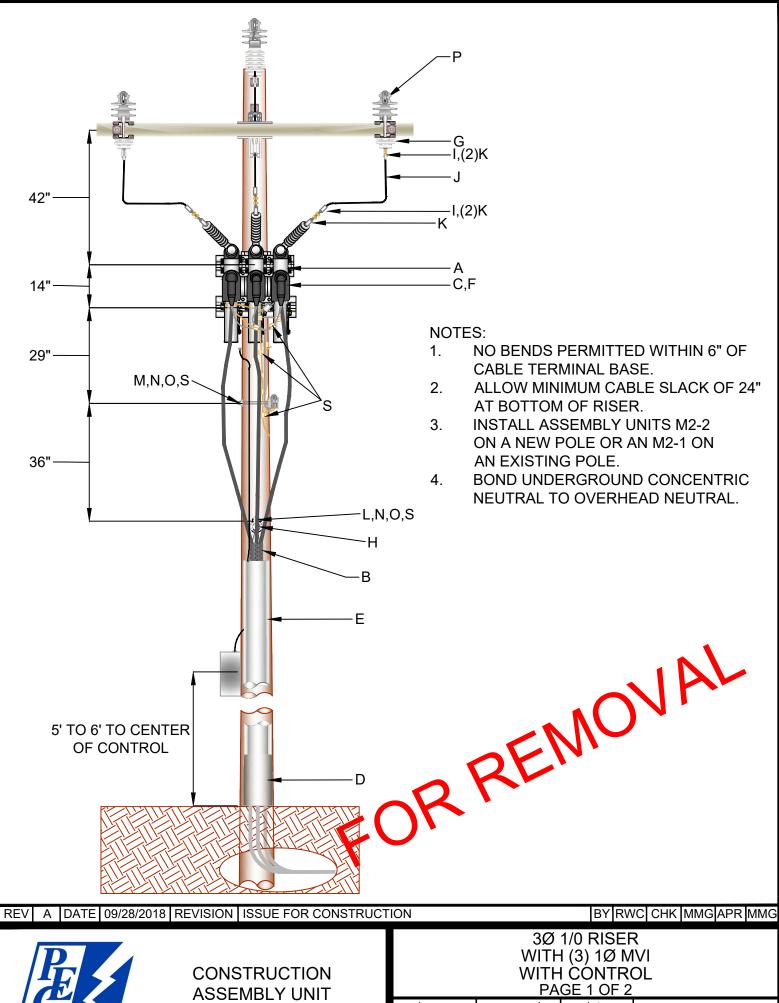
BY RWC CHK SSS APR MMG



CONSTRUCTION ASSEMBLY UNIT

3Ø 1000 AL UNDERGROUND RISER WITH VERTICAL EXTENDO AIR BREAK SWITCH AND STANDOFFS PAGE 4 OF 4

\"	date:	approved:	drawn:
VUM2-12.3E	10/17/2023	MMG	RWC



drawn: approved: date: VUM2-13.1 09/28/2018 **RWC** MMG



ITEM	MATERIAL NUMBER	DESCRIPTION	QUANTITY			
Α	2000829	RISER INTERRUPTER 3-1PH 200A	1			
В	2000488	GRIP CABLE URD	3			
С	2000387	CONN URD LB ELBOW 25kV	3			
D	2000837	RISER VENT BOOT 5" PVC	1			
E	2000834	RISER POLE STANDARD 5"	3			
F	2000029	ARRESTER URD ELBOW 18kV MOV	3			
G	2000936	SWITCH DISC LINE TAP	3			
Н	2000262	CLEVIS ANCHOR SHACKLE SMALL	3			
I	2000376	CONN TERM 500-800 2 HOLE	6			
J	2000214	CABLE SERVICE WP #500 MCM CU	15			
K	*2000039	BOLT BRONZE 1/2"x2" W/NUT & WASHER	AS REQ'D			
L	*	BOLT EYE 5/8"	AS REQ'D			
М	*	BOLT MACHINE 5/8"	AS REQ'D			
N	*3000153	LOCKNUTS 5/8" MF	AS REQ'D			
0	*3000237 or	WASHER SQUARE CURVED FOR 3/4" BOLT	AS REQ'D			
Р	*3000235	WASHER SQUARE CURVED FOR 5/8" BOLT	AS REQ'D			
Р	*	CONNECTORS	AS REQ'D			
Q	*	JUMPERS	AS REQ'D			
R	*2000347	CONN SPLIT BOLT GP 6	AS REQ'D			
S	*3000227	WASHER COIL 5/8"	AS REQ'D			
	*DENOTES "GRAB BAG" ITEM - ALL BOLT LENGTHS DEPEND ON POLE CLASS.					

DENOTES "GRAB BAG" ITEM - ALL BOLT LENGTHS DEPEND ON POLE CLASS.

REV A DATE 09/28/2018 REVISION ISSUE FOR CONSTRUCTION

BY RWC CHK MMG APR MMG

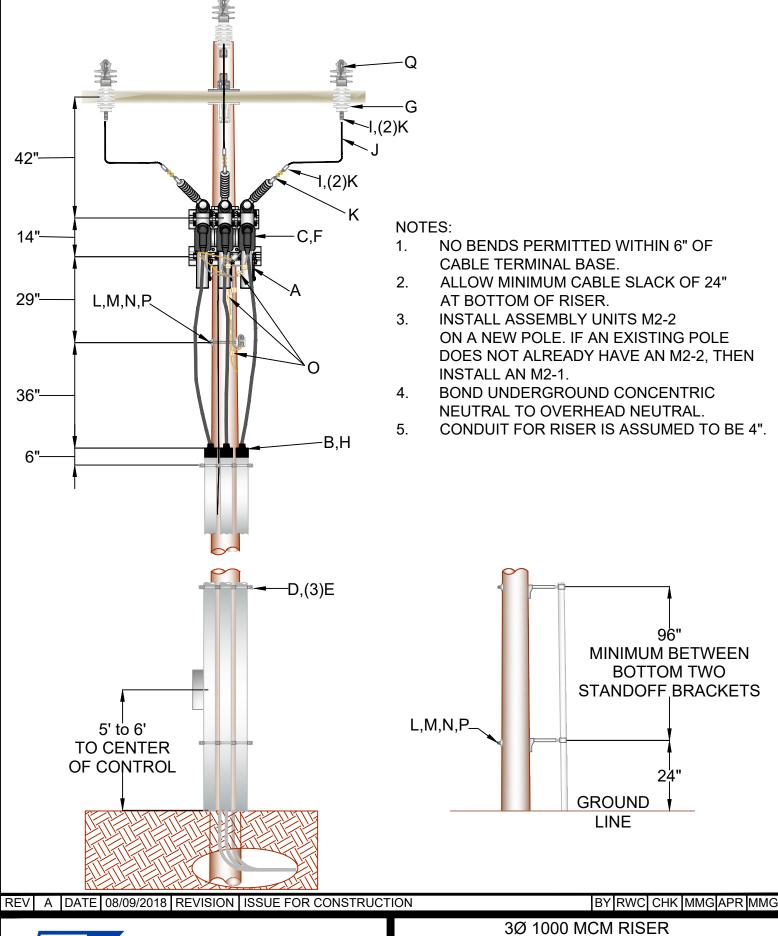


CONSTRUCTION **ASSEMBLY UNIT**

3Ø 1/0 RISER WITH (3) 1Ø MVI WITH CONTROL PAGE 2 OF 2

drawn:	approved:	date:	Г
RWC	MMG	09/28/2018	

VUM2-13.1





CONSTRUCTION ASSEMBLY UNIT

3Ø 1000 MCM RISER WITH (3) 1Ø MVI WITH CONTROL AND STANDOFFS PAGE 1 OF 2

drawn:	approved:	date:	\ // IN 40 40 40
RWC	MMG	08/09/2018	VUM2-13.4S

ITEM	MATERIAL NUMBER	DESCRIPTION	QUANTITY
Α	2000830	RISER INTERRUPTER 3-1PH 600A	1
В	2000459	FLOOD SEAL 4"	3
С	2000562	KIT "T" CONN 25kV 600/900A 1000AL	3
D	2000147	BRACKET CONDUIT 9" STANDOFF 24"	4
E	2000910	STRAP KIT 4" EA. CONDUIT	12
F	2000030	ARRESTER URD ELBOW 18kV MOV	3
G	2000936	SWITCH DISC LINE TAP	3
Н	2002700	GRIP CABLE URD CONDUIT RISER RING GRIP 4"	3
1	2000376	CONN TERM 500-800 2 HOLE	6
J	2000214	CABLE SERVICE WP #500 MCM CU	15
K	*2000039	BOLT BRONZE 1/2"x2" W/NUT & WASHER	AS REQ'D
L	*	BOLT MACHINE 5/8"	AS REQ'D
М	*3000153	LOCKNUTS 5/8" MF	AS REQ'D
N	*3000237 or	WASHER SQUARE CURVED FOR 3/4" BOLT	AS REQ'D
N	*3000235	WASHER SQUARE CURVED FOR 5/8" BOLT	AS REQ'D
0	*2000347	CONN SPLIT BOLT GP 6	AS REQ'D
Р	*3000227	WASHER COIL 5/8"	AS REQ'D
Q	*	CONNECTORS	AS REQ'D

*DENOTES "GRAB BAG" ITEM - ALL BOLT LENGTHS DEPEND ON POLE CLASS.

REV A DATE 08/09/2018 REVISION ISSUE FOR CONSTRUCTION

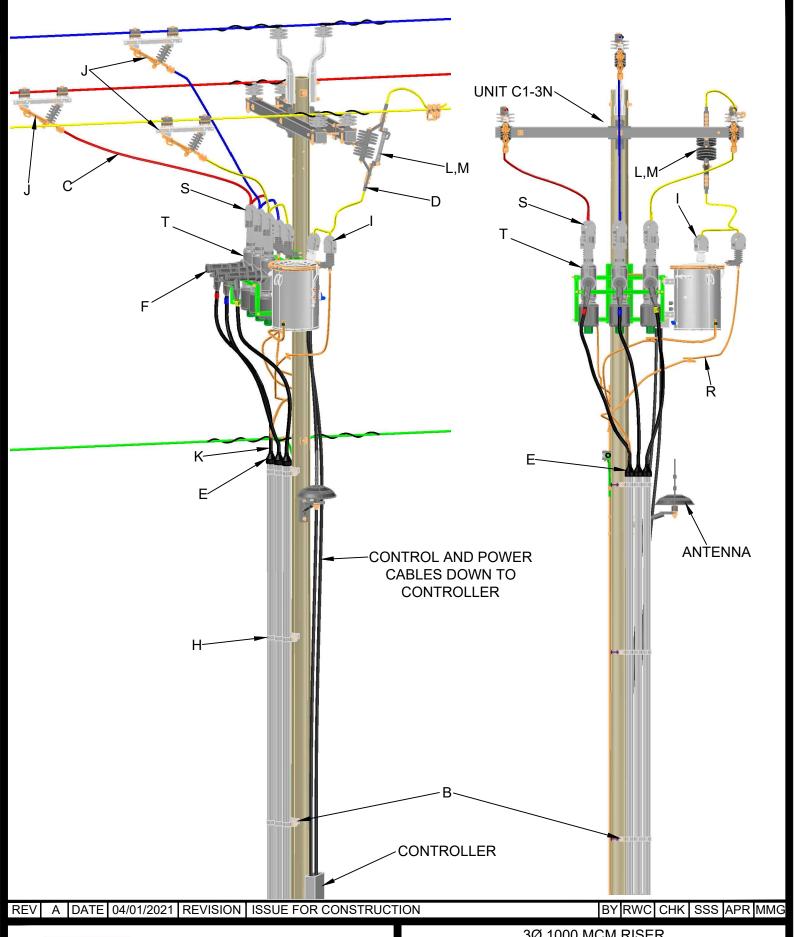
BY RWC CHK MMG APR MMG



CONSTRUCTION ASSEMBLY UNIT

3Ø 1000 MCM RISER WITH (3) 1Ø MVI WITH CONTROL AND STANDOFFS PAGE 2 OF 2

\	date:	approved:	drawn:
VUM2-13.45	08/09/2018	MMG	RWC

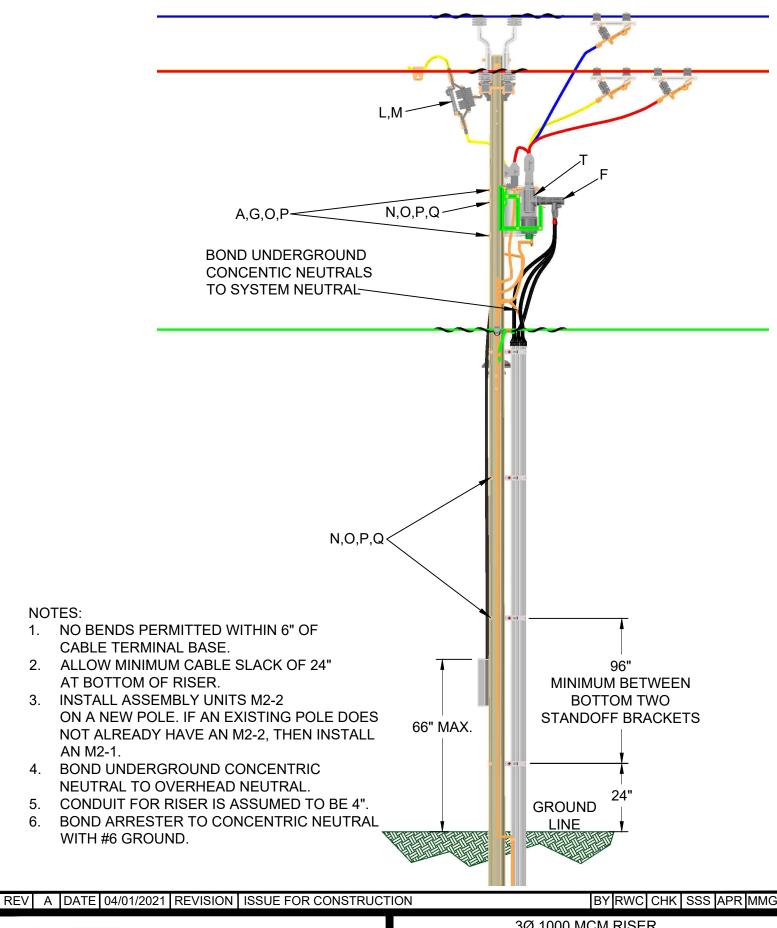


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CONSTRUCTION ASSEMBLY UNIT

3Ø 1000 MCM RISER
WITH (3) 1Ø VIPER TYPE ST RECLOSERS
WITH CONTROL AND STANDOFFS
PAGE 1 OF 3

drawn:	approved:	date:	\/\LINAO_4O_4O\/
RWC	MMG	04/01/2021	VUM2-13.4SV



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CONSTRUCTION ASSEMBLY UNIT

3Ø 1000 MCM RISER WITH (3) 1Ø VIPER TYPE ST RECLOSERS WITH CONTROL AND STANDOFFS PAGE 2 OF 3

\/LIMO 40 4	date:	approved:	drawn:
VUM2-13.4	04/01/2021	MMG	RWC

ITEM	MATERIAL NUMBER	DESCRIPTION	QUANTITY			
Α	*3000151	LOCKNUT 3/4" MF	AS REQ'D			
В	2000147	BRACKET CONDUIT 9" STANDOFF 24"	4			
С	*2000214	CABLE SERVICE WP 500 MCM CU	AS REQ'D			
D	2000376	CONNECTOR TERMINAL 500-800 2 HOLE	6			
E	2000459	FLOOD SEAL 4"	3			
F	2002888	'T' CONNECTOR 35 kV, 600A, 1000 AL	3			
G	*	BOLT MACHINE 3/4" MF	AS REQ'D			
Н	2000910	STRAP KIT 4" 1 EACH PER CONDUIT PER BRACKET	12			
ı	2000495	GUARD BIRD, ARRESTER	5			
J	2000936	LINE TAP SWITCH	3			
K	2002700	GRIP CABLE URD CONDUIT RISER RING GRIP 4"	3			
L	2000423	CUTOUT 14.4-24.9 kV 100A	1			
М	3000021	BRACKET CUTOUT MOUNTING	1			
N	*	BOLT MACHINE 5/8"	AS REQ'D			
0	*3000227	WASHER COIL 5/8"	AS REQ'D			
Р	*3000240	WASHER SQUARE FLAT 2 1/4" WITH 11/16" HOLE	AS REQ'D			
Р	*3000237	WASHER SQUARE CURVED 4" WITH 15/16" HOLE	AS REQ'D			
Р	*3000235	WASHER SQUARE CURVED 3" WITH 13/16" HOLE	AS REQ'D			
Q	*3000153	LOCKNUT 5/8" MF	AS REQ'D			
R	*	JUMPERS	AS REQ'D			
S	2002835	#4 MEDIUM SOLID BUSHING GUARD WITH LOOP LATCH	3			
Т	2000823	RECLOSER VACUUM 3Ø 800A SCADA CONTROL	1			
	*DENOTES "CDAR RAC" ITEM ALL ROLT LENGTHS DEDEND ON DOLE CLASS					

*DENOTES "GRAB BAG" ITEM. ALL BOLT LENGTHS DEPEND ON POLE CLASS.

CONTROL CABINET MOUNTING HARDWARE AND MISCELLANEOUS HARDWARE AS REQ'D.

NESC RULE 217A2c:

STANDOFF BRACKETS ON SUPPORTING STRUCTURES SHALL BE ARRANGED SO THAT THERE IS NOT LESS THAN 2.45 M (8 FT) BETWEEN EITHER:

- (1) THE LOWEST BRACKET AND GROUND OR OTHER ACCESSIBLE SURFACE, OR
- (2) THE TWO LOWEST BRACKETS.

EXCEPTION: THIS RULE DOES NOT APPLY WHERE SUPPORTING STRUCTURES ARE ISOLATED.

REV A DATE 04/01/2021 REVISION ISSUE FOR CONSTRUCTION

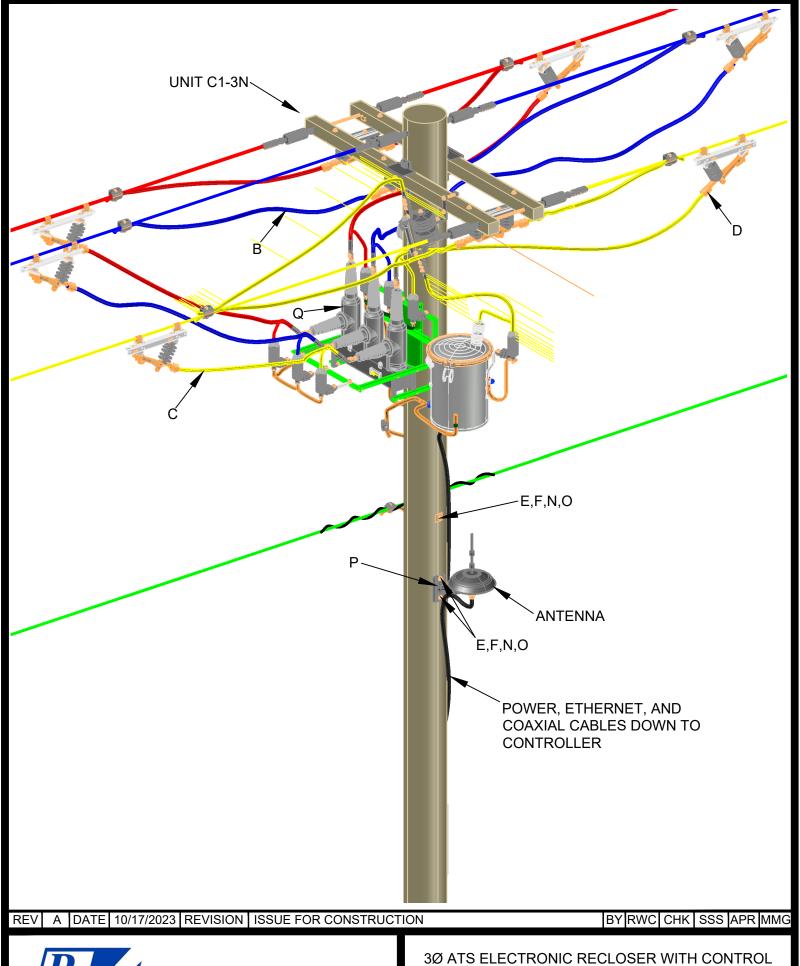
BY RWC CHK SSS APR MMG



CONSTRUCTION ASSEMBLY UNIT

3Ø 1000 MCM RISER WITH (3) 1Ø VIPER TYPE ST RECLOSERS WITH CONTROL AND STANDOFFS PAGE 3 OF 3

\/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	date:	approved:	drawn:
│ VUM2-13.4S\	04/01/2021	MMG	RWC

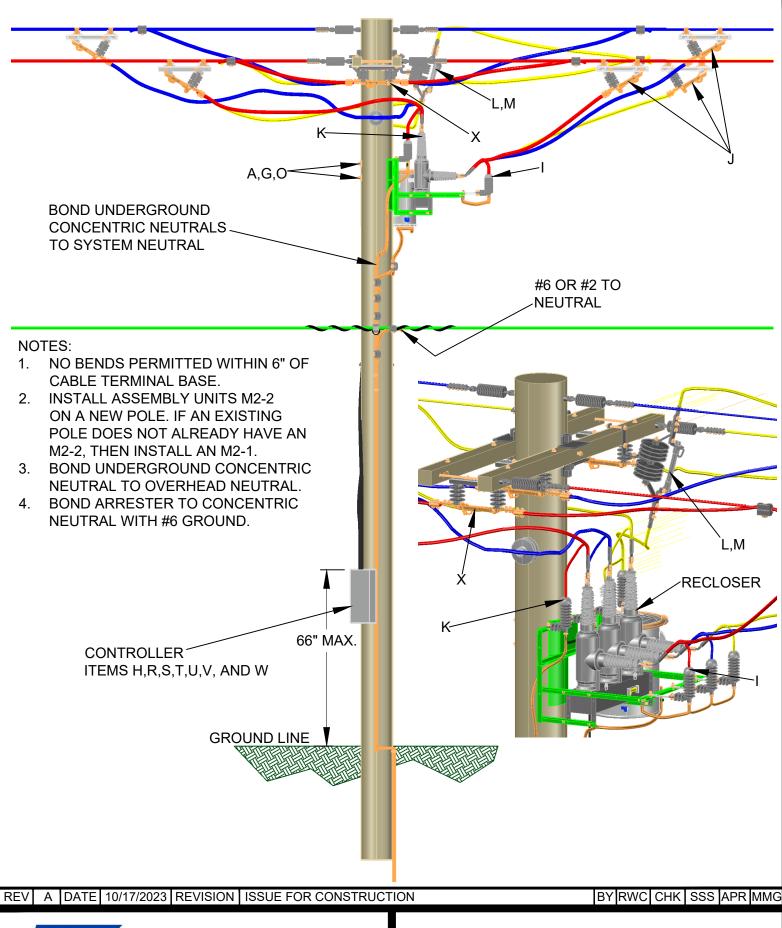


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CONSTRUCTION ASSEMBLY UNIT

3Ø ATS ELECTRONIC RECLOSER WITH CONTROL PAGE 1 OF 3

drawn:	approved:	date:
RWC	MMG	_{10/17/2023} VUM2-13.4SV-C



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CONSTRUCTION ASSEMBLY UNIT

3Ø ATS ELECTRONIC RECLOSER WITH CONTROL PAGE 2 OF 3

drawn:	approved:	date:	\/\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
RWC	MMG	10/17/2023	VUM2-13.4SV-O

ITEM	MATERIAL NUMBER	DESCRIPTION	QUANTITY
Α	*3000151	LOCKNUT 3/4" MF	AS REQ'D
В	*	JUMPERS	AS REQ'D
С	*2000214	CABLE SERVICE WP 500 MCM CU	AS REQ'D
D	2000376	CONNECTOR TERMINAL 500-800 2 HOLE	6
E	*	BOLT MACHINE 5/8"	AS REQ'D
F	*3000227	WASHER COIL 5/8"	AS REQ'D
G	*	BOLT MACHINE 3/4" MF	AS REQ'D
Н	3000536	900 MHZ ANTENNA MAXRAD	1
I	2000495	GUARD BIRD, ARRESTER	8
J	2000936	LINE TAP SWITCH	6
K	2002835	#4 MEDIUM SOLID BUSHING GUARD WITH LOOP LATCH	6
L	2000423	CUTOUT 14.4-24.9 kV 100A	1
М	3000021	BRACKET CUTOUT MOUNTING	1
N	*3000153	LOCKNUT 5/8" MF	AS REQ'D
0	*3000240	WASHER SQUARE FLAT 2 1/4" WITH 11/16" HOLE	AS REQ'D
0	*3000237	WASHER SQUARE CURVED 4" WITH 15/16" HOLE	AS REQ'D
0	*3000235	WASHER SQUARE CURVED 3" WITH 13/16" HOLE	AS REQ'D
Р	2000166	BRACKET STANDOFF 18" 3 POS. FBRGLS.	1
Q	2000823	RECLOSER VACUUM 3Ø 800A SCADA CONTROL	1
R	2002831	GPS CLOCK	1
S	2002833	RADIO, SERIAL TRANSCEIVER, MIRRORED BITS	1
Т	2002584	MODEM SUBST. CELLULAR AIRLINK RAVEN RV50X	1
U	3000537	CELL ANTENNA FEMALE CONNECTION	1
V	3000533	10 FT. ETHERNET CABLE CAT6	1
W	3000535	NMALE TO NMALE COAXIAL CABLE 40'	1
Х	2000930	SWITCH DISCONNECT 25 kV 600A	3
	*DENOTEO 110	DAD DAOUTEM ALL DOLT LENGTHO DEDENID ON DOLE OLAGO	

*DENOTES "GRAB BAG" ITEM. ALL BOLT LENGTHS DEPEND ON POLE CLASS.

CONTROL CABINET MOUNTING HARDWARE AND MISCELLANEOUS HARDWARE AS REQUIRED.

NESC RULE 217A2c:

STANDOFF BRACKETS ON SUPPORTING STRUCTURES SHALL BE ARRANGED SO THAT THERE IS NOT LESS THAN 2.45 M (8 FT) BETWEEN EITHER:

- (1) THE LOWEST BRACKET AND GROUND OR OTHER ACCESSIBLE SURFACE, OR
- (2) THE TWO LOWEST BRACKETS.

REV A DATE 10/17/2023 REVISION ISSUE FOR CONSTRUCTION

EXCEPTION: THIS RULE DOES NOT APPLY WHERE SUPPORTING STRUCTURES ARE ISOLATED.

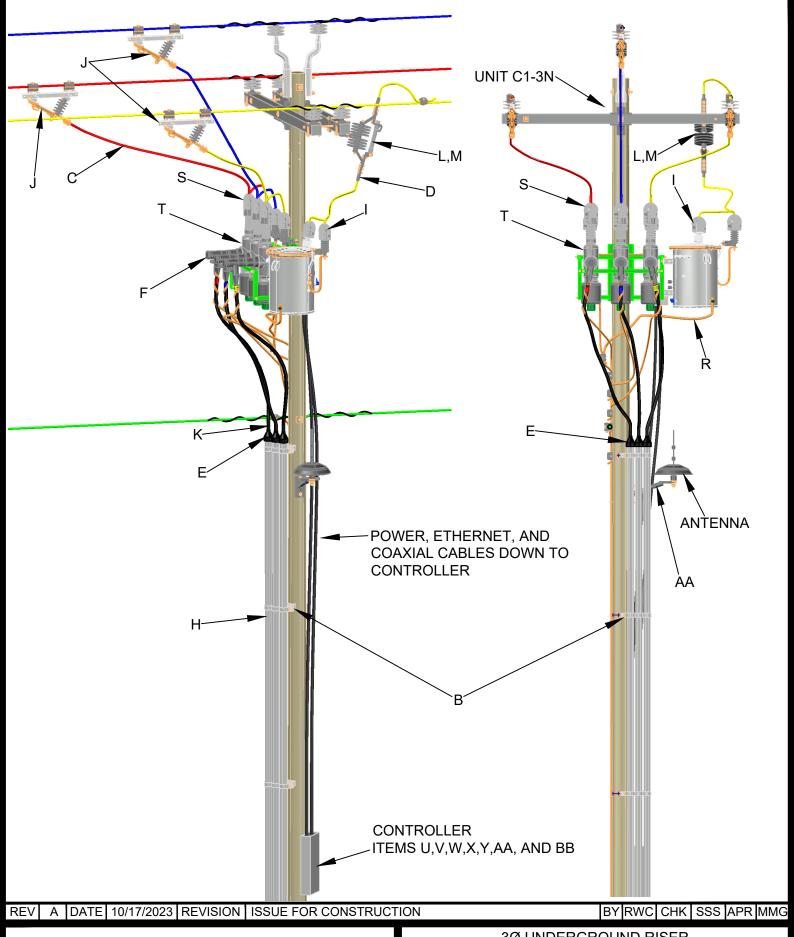


CONSTRUCTION ASSEMBLY UNIT

3Ø ATS ELECTRONIC RECLOSER WITH CONTROL PAGE 3 OF 3

BY RWC CHK SSS APR MMG

drawn:	approved:	date:	\/\
RWC	MMG	10/17/2023	VUM2-13.4SV-O

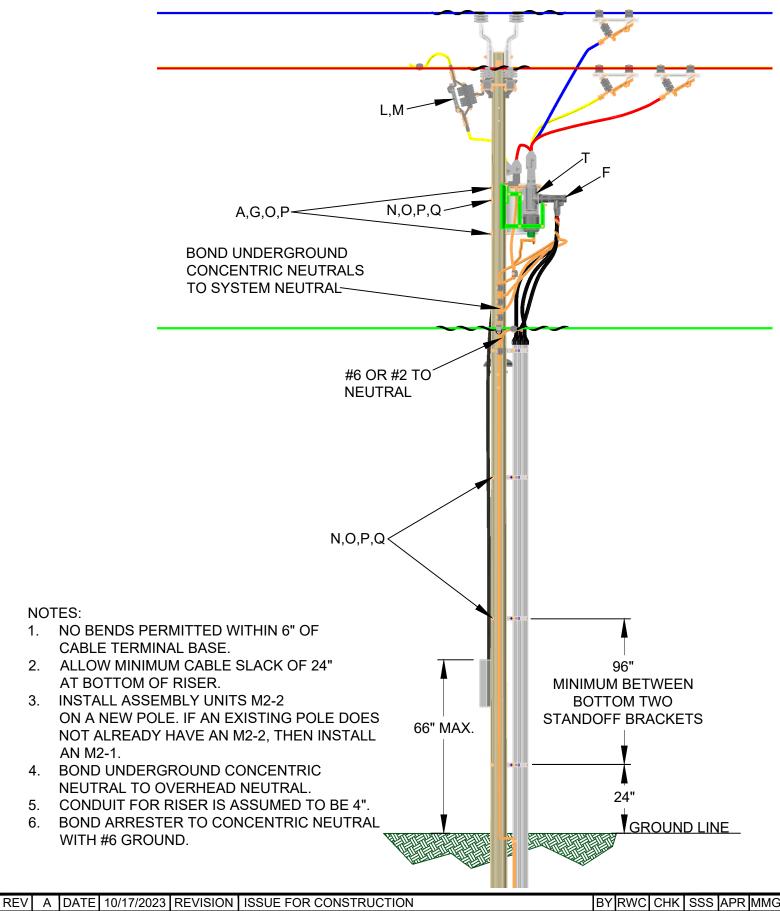


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CONSTRUCTION ASSEMBLY UNIT

3Ø UNDERGROUND RISER WITH ATS ELECTRONIC RECLOSER WITH CONTROL PAGE 1 OF 3

drawn:	approved:	date:	\/\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
RWC	MMG	10/17/2023	VUM2-13.4SV-U



3Ø UNDERGROUND RISER WITH ATS ELECTRONIC RECLOSER WITH CONTROL PAGE 2 OF 3

drawn: approved: date: VUM2-13.4SV-U **RWC** 10/17/2023 MMG



CONSTRUCTION **ASSEMBLY UNIT**

ITEM	MATERIAL NUMBER	DESCRIPTION	QUANTITY
Α	*3000151	LOCKNUT 3/4" MF	AS REQ'D
В	2000147	BRACKET CONDUIT 9" STANDOFF 24"	4
С	*2000214	CABLE SERVICE WP 500 MCM CU	AS REQ'D
D	2000376	CONNECTOR TERMINAL 500-800 2 HOLE	3
E	2000459	FLOOD SEAL 4"	3
F	2002962	'T' CONNECTOR 35 kV, 600A, 1/0 AL	3
G	*	BOLT MACHINE 3/4" MF	AS REQ'D
Н	2000910	STRAP KIT 4" 1 EACH PER CONDUIT PER BRACKET	12
I	2000495	GUARD BIRD, ARRESTER	5
J	2000936	LINE TAP SWITCH	3
K	2002700	GRIP CABLE URD CONDUIT RISER RING GRIP 4"	3
L	2000423	CUTOUT 14.4-24.9 kV 100A	1
М	3000021	BRACKET CUTOUT MOUNTING	1
N	*	BOLT MACHINE 5/8"	AS REQ'D
0	*3000227	WASHER COIL 5/8"	AS REQ'D
Р	*3000240	WASHER SQUARE FLAT 2 1/4" WITH 11/16" HOLE	AS REQ'D
Р	*3000237	WASHER SQUARE CURVED 4" WITH 15/16" HOLE	AS REQ'D
Р	*3000235	WASHER SQUARE CURVED 3" WITH 13/16" HOLE	AS REQ'D
Q	*3000153	LOCKNUT 5/8" MF	AS REQ'D
R	*	JUMPERS	AS REQ'D
S	2002835	#4 MEDIUM SOLID BUSHING GUARD WITH LOOP LATCH	3
Т	2000823	RECLOSER VACUUM 3Ø 800A SCADA CONTROL	1
U	2002831	GPS CLOCK	1
V	2002833	RADIO, SERIAL TRANSCEIVER, MIRRORED BITS	1
W	2002584	MODEM SUBST. CELLULAR AIRLINK RAVEN RV50X	1
Х	3000537	CELL ANTENNA FEMALE CONNECTION	1
Υ	3000533	10 FT. ETHERNET CABLE CAT6	1
Z	2000166	BRACKET STANDOFF 18" 3 POS. FBRGLS.	1
AA	3000535	NMALE TO NMALE COAXIAL CABLE 40'	1
BB	3000536	900 MHZ ANTENNA MAXRAD	1

*DENOTES "GRAB BAG" ITEM. ALL BOLT LENGTHS DEPEND ON POLE CLASS.

CONTROL CABINET MOUNTING HARDWARE AND MISCELLANEOUS HARDWARE AS REQUIRED.

NESC RULE 217A2c:

STANDOFF BRACKETS ON SUPPORTING STRUCTURES SHALL BE ARRANGED SO THAT THERE IS NOT LESS THAN 2.45 M (8 FT) BETWEEN EITHER:

- (1) THE LOWEST BRACKET AND GROUND OR OTHER ACCESSIBLE SURFACE, OR
- (2) THE TWO LOWEST BRACKETS.

EXCEPTION: THIS RULE DOES NOT APPLY WHERE SUPPORTING STRUCTURES ARE ISOLATED.

REV A DATE 10/17/2023 REVISION ISSUE FOR CONSTRUCTION

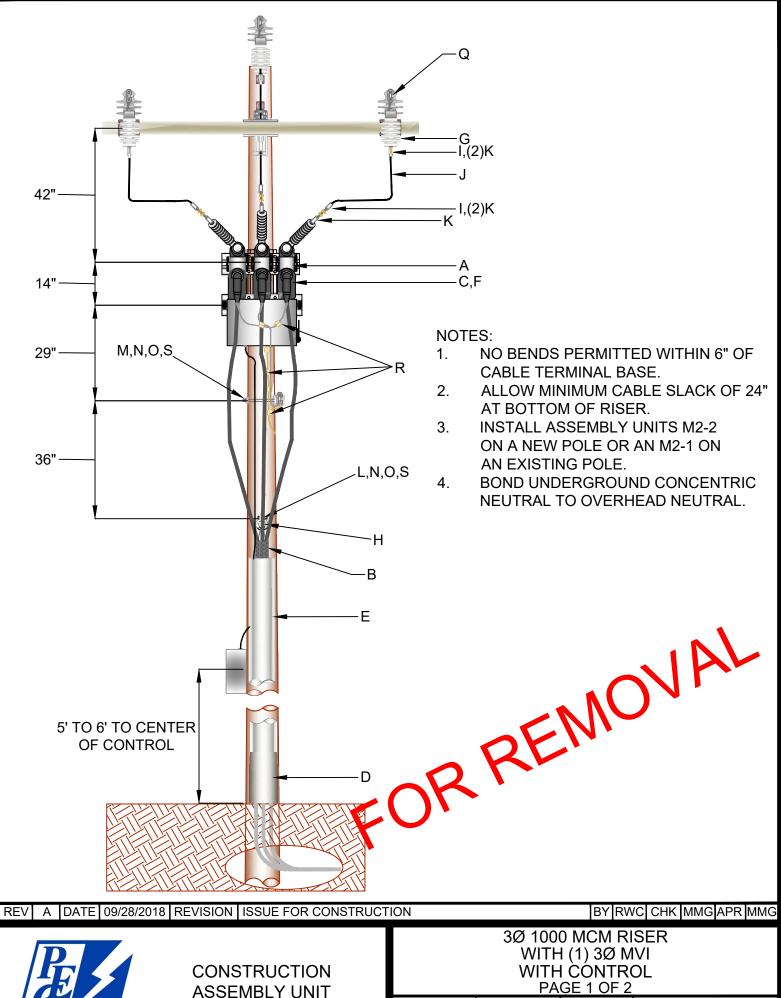
BY RWC CHK SSS APR MMG



CONSTRUCTION ASSEMBLY UNIT

3Ø UNDERGROUND RISER WITH ATS ELECTRONIC RECLOSER WITH CONTROL PAGE 3 OF 3

drawn:	approved:	date:	\
RWC	MMG	10/17/2023	VUM2-13.4SV-U



drawn: approved: date:

RWC MMG 09/28/2018 VUM2-14.4



ITEM	MATERIAL NUMBER	DESCRIPTION	QUANTITY
Α	2000831	RISER INTERRUPTER 3-PH W/CONTR	1
В	2000490	GRIP CABLE URD 1 5/8"-2 1/2"	3
С	2000562	KIT "T" CONN 25kV 600/900A 1000AL	3
D	2000838	RISER VENT BOOT 6" PVC	1
Е	2000835	RISER POLE STANDARD 6"	3
F	2000030	ARRESTER URD ELBOW 18kV MOV	3
G	2000936	SWITCH DISC LINE TAP	3
Н	2000262	CLEVIS ANCHOR SHACKLE SMALL	3
I	2000376	CONN TERM 500-800 2 HOLE	6
J	2000214	CABLE SERVICE WP #500 MCM CU	15
K	*2000039	BOLT BRONZE 1/2"x2" W/NUT & WASHER	AS REQ'D
L	*	BOLT EYE 5/8"	AS REQ'D
М	*	BOLT MACHINE 5/8"	AS REQ'D
N	*3000153	LOCKNUTS 5/8" MF	AS REQ'D
0	*3000237 or	WASHER SQUARE CURVED FOR 3/4" BOLT	AS REQ'D
Р	*3000235	WASHER SQUARE CURVED FOR 5/8" BOLT	AS REQ'D
Р	*	CONNECTORS	AS REQ'D
Q	*	JUMPERS	AS REQ'D
R	*2000347	CONN SPLIT BOLT GP 6	AS REQ'D
S	*3000227	WASHER COIL 5/8"	AS REQ'D

*DENOTES "GRAB BAG" ITEM - ALL BOLT LENGTHS DEPEND ON POLE CLASS.

REV A DATE 09/28/2018 REVISION ISSUE FOR CONSTRUCTION

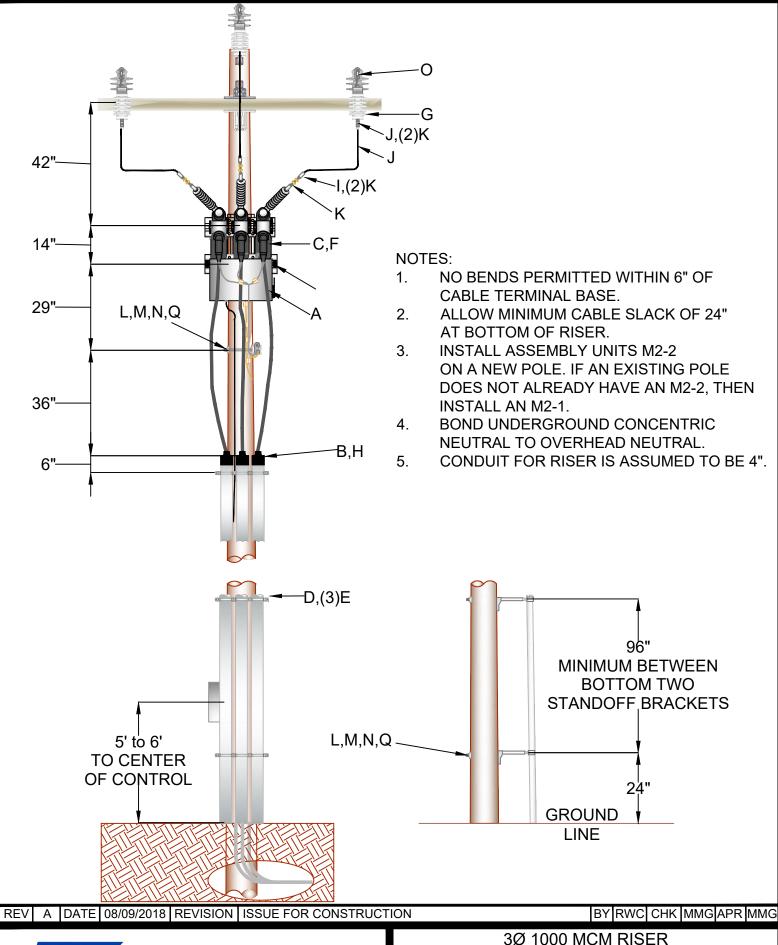
BY RWC CHK MMG APR MMG



CONSTRUCTION ASSEMBLY UNIT

3Ø 1000 MCM RISER WITH (1) 3Ø MVI WITH CONTROL PAGE 2 OF 2

\	date:	approved:	drawn:
VUM2-14.4	09/28/2018	MMG	RWC





CONSTRUCTION ASSEMBLY UNIT

3Ø 1000 MCM RISER WITH (1) 3Ø MVI WITH CONTROL AND STANDOFFS PAGE 1 OF 2

	approved:	date:	\/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
RWC	MMG	08/09/2018	VUM2-14.4S

ITEM	MATERIAL NUMBER	DESCRIPTION	QUANTITY
Α	2000831	RISER INTERRUPTER 3-1PH W/CONTR	1
В	2000459	FLOOD SEAL 4"	3
С	2000562	KIT "T" CONN 25kV 600/900A 1000AL	3
D	2000147	BRACKET CONDUIT 9" STANDOFF 24"	4
Е	2000910	STRAP KIT 4" EA. CONDUIT	12
F	2000030	ARRESTER URD ELBOW 18kV MOV	3
G	2000936	SWITCH DISC LINE TAP	3
Н	2002700	GRIP CABLE URD CONDUIT RISER RING GRIP 4"	3
I	2000376	CONN TERM 500-8 2 HOLE	6
J	2000214	CABLE SERVICE WP #500 MCM CU	15
K	*2000039	BOLT BRONZE 1/2"x2" W/NUT & WASHER	AS REQ'D
L	*	BOLT MACHINE 5/8"	AS REQ'D
М	*3000153	LOCKNUTS 5/8" MF	AS REQ'D
N	*3000237 or	WASHER SQUARE CURVED FOR 3/4" BOLT	AS REQ'D
N	*3000235	WASHER SQUARE CURVED FOR 5/8" BOLT	AS REQ'D
0	*	CONNECTORS	AS REQ'D
Р	*2000347	CONN SPLIT BOLT GP 6	AS REQ'D
Q	*3000227	WASHER COIL 5/8"	AS REQ'D

*DENOTES "GRAB BAG" ITEM - ALL BOLT LENGTHS DEPEND ON POLE CLASS.

REV A DATE 08/09/2018 REVISION ISSUE FOR CONSTRUCTION

BY RWC CHK MMG APR MMG



CONSTRUCTION ASSEMBLY UNIT

3Ø 1000 MCM RISER WITH (1) 3Ø MVI WITH CONTROL AND STANDOFFS PAGE 2 OF 2

lrawn:	approved:	date:	VUM2-14.4S
RWC	MMG	08/09/2018	