Construction Assembly Specifications

for 12.5/7.2 kV Distribution Systems



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SINGLE PHASE O.H.

- A1 STANDARD CONFIGURATION, STRAIGHT LINE CONSTRUCTION
- A1F STANDARD CONFIGURATION, STRAIGHT LINE CONSTRUCTION
- A2V STANDARD CONFIGURATION, MEDIUM ANGLE, CONSTRUCTION
 - A3 STANDARD CONFIGURATION, VERTICAL SUSPENSION
 - A4 STANDARD CONFIGURATION, DOUBLE DEADEND ANGLE
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 - A6 STANDARD CONFIGURATION, DOUBLE DEADEND

TWO PHASE O.H.

- **B1** STRAIGHT LINE, CROSSARM CONSTRUCTION, SINGLE ARM SUPPORT
- **B1F** STANDARD CONFIGURATION, STRAIGHT LINE CONSTRUCTION
- **B1P** STANDARD CONFIGURATION, STRAIGHT LINE CONSTRUCTION
 - B2 STANDARD CONFIGURATION, MEDIUM ANGLE, CROSSARM CONSTRUCTION
- **B2F** STANDARD CONFIGURATION, MEDIUM ANGLE, CONSTRUCTION
- **B2V** STANDARD CONFIGURATION, VERTICAL STRAIGHT LINE TO MEDIUM ANGLE CONSTRUCTION
 - **B3** STANDARD CONFIGURATION, VERTICAL SUSPENSION
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 - B7 CROSSARM CONSTRUCTION, DEADEND, ON ARMS
- B7S STANDARD CONFIGURATION, HORIZONTAL DEADEND
 - B8 CROSSARM CONSTRUCTION, HORIZONTAL DOUBLE DEADEND
- B8S STANDARD CONFIGURATION, HORIZONTAL DOUBLE DEADEND, WIRE SIZE CHANGE

THREE PHASE O.H.

- C1 STANDARD CONFIGURATION, STRAIGHT LINE CROSSARM CONSTRUCTION, SINGLE ARM SUPPORT
- C1F STANDARD CONSTRUCTION, STRAIGHT LINE CONSTRUCTION
- C1PS STANDARD CONSTRUCTION, STRAIGHT LINE CONSTRUCTION
 - C2 STANDARD CONFIGURATION, MEDIUM ANGLE, CROSSARM CONSTRUCTION
 - C2-1 ALTERNATE CONFIGURATION, MEDIUM ANGLE, CROSSARM CONSTRUCTION
- C2-2A ALLEY ARM CONSTRUCTION
- C2-2S STEEL ARM, MEDIUM ANGLE CONSTRUCTION
 - C2F STANDARD CONFIGURATION, MEDIUM ANGLE CONSTRUCTION
- C2PS STANDARD CONFIGURATION, MEDIUM ANGLE CONSTRUCTION
 - C2V STANDARD CONFIGURATION, VERTICAL STRAIGHT LINE TO MEDIUM ANGLE CONSTRUCTION
- C2VF STANDARD CONFIGURATION, STRAIGHT LINE TO MEDIUM ANGLE CONSTRUCTION
 - C3 STANDARD CONFIGURATION, VERTICAL SUSPENSION
 - C4 STANDARD CONFIGURATION, VERTICAL CONSTRUCTION, DOUBLE DEADEND ANGLE
 - C5 VERTICAL CONSTRUCTION, DEADEND
 - C6 VERTICAL CONSTRUCTION, DOUBLE DEADEND
- C6SS SLACK SPAN, VERTICAL CONSTRUCTION
 - C7 CROSSARM CONSTRUCTION, DEADEND ON ARMS
 - C7S STANDARD CONFIGURATION, HORIZONTAL DEADEND
 - C8 CROSSARM CONSTRUCTION, HORIZONTAL DOUBLE DEADEND
 - C8S STANDARD CONFIGURATION, HORIZONTAL DOUBLE DEADEND WIRE SIZE CHANGE
- **C8SH** HORIZONTAL DOUBLE DEADEND
- C8SS SLACK SPAN, HORIZONTAL DOUBLE DEADEND CONSTRUCTION

DOUBLE CIRCUIT O.H.

- DC-C1 DOUBLE CIRCUIT, STRAIGHT LINE CONSTRUCTION
- DC-C1F ALTERNATE CONFIGURATION, NARROW PROFILE, DOUBLE CIRCUIT
- DC-C1F1 ALTERNATE CONFIGURATION, NARROW PROFILE, DOUBLE CIRCUIT
- DC-C1PS DOUBLE CIRCUIT CONSTRUCTION, STRAIGHT LINE
 - DC-C1V STANDARD CONFIGURATION, DOUBLE CIRCUIT STRAIGHT LINE VERTICAL CONSTRUCTION
 - DC-C2 DOUBLE CIRCUIT, CROSSARM CONSTRUCTION, DOUBLE ARM SUPPORT
 - DC-C2F DOUBLE CIRCUIT, MEDIUM ANGLE CONSTRUCTION
- DC-C2PS DOUBLE CIRCUIT CONSTRUCTION. MEDIUM LINE ANGLE CONSTRUCTION
- DC-C2V STANDARD CONFIGURATION, DOUBLE CIRCUIT MEDIUM ANGLE VERTICAL CONSTRUCTION
- DC-C2VF STANDARD CONFIGURATION, STRAIGHT LINE TO MEDIUM ANGLE VERTICAL CONSTRUCTION
 - DC-C3 STANDARD CONFIGURATION, DOUBLE CIRCUIT VERTICAL SUSPENSION INSULATOR
 - DC-C4 STANDARD CONFIGURATION, DOUBLE CIRCUIT VERTICAL, DOUBLE DEADEND
 - DC-C5 DEADEND, DOUBLE CIRCUIT VERTICAL CONSTRUCTION
 - DC-C7F ALTERNATE CONFIGURATION, NARROW PROFILE, DOUBLE CIRCUIT, DEADEND CONSTRUCTION
 - DC-C7S HORIZONTAL DEADEND DOUBLE CIRCUIT CONSTRUCTION
 - DC-C8F NARROW PROFILE, DOUBLE CIRCUIT DOUBLE DEADEND CONSTRUCTION
 - DC-C8S HORIZONTAL DOUBLE DEADEND DOUBLE CIRCUIT CONSTRUCTION

JOINT USE AND CLEARANCES

- JU&C1 JOINT TRANSMISSION & DISTRIBUTION
- JU&C2 RAILROAD CROSSING CONSTRUCTION CLEARANCES
- JU&C3 TRANSFORMER POLE
- JU&C4 C.A.T.V., TELEPHONE, OTHER SEPARATION FROM LUMINARIES
- JU&C5 DECORATIVE ATTACHMENT INSTALLATION
- JU&C6 COMMUNICATION/SIGNAL TYPE ATTACHMENT C.A.T.V. POWER SUPPLY INSTALLATION
- JU&C7 MULTIPLE COMMUNICATION/SIGNAL TYPE ATTACHMENT
- TABLE 1 VERTICAL CLEARANCES OF WIRES, CONDUCTORS, AND CABLES ABOVE GROUND, ROADWAYS, RAILS, OR WATER
- TABLE 2 CLEARANCES OF WIRES, CABLES, AND UNGUARDED RIGID LIVE PARTS ADJACENT, BUT NOT ATTACHED TO BUILDINGS AND OTHER INSTALLATIONS EXCEPT BRIDGES

OVERHEAD TRANSFORMERS

- **G110** SINGLE TRANSFORMER INSTALLATION, DEADEND POLE
- G210 TWO TRANSFORMERS, CLUSTER MOUNTED OPEN WYE-OPEN DELTA
- **G310** THREE TRANSFORMERS, CLUSTER MOUNTED CLOSED DELTA
- G312 THREE TRANSFORMERS, CLUSTER MOUNTED 4—WIRE GROUNDED WYE—GROUNDED WYE, 7200 VOLTAGE PRIMARY, KVA TFM
 - R1 FUSE CHART FOR OVERHEAD TRANSFORMERS AND CAPACITORS OPERATING ON A 12470/7200 VOLT WYE SYSTEM
 - R2 SECONDARY LEAD CHART
 - TC1 SINGLE PHASE CONNECTION, PRIMARY WINDING CONNECTED PHASE TO GROUND
 - TC2 SINGLE PHASE CONNECTION, PRIMARY PHASE CONNECTED PHASE TO PHASE
 - TC3 THREE PHASE WYE-WYE CONNECTION
 - TC4 THREE PHASE DELTA-WYE CONNECTION
 - TC5 THREE PHASE 4-WIRE 277/480 VOLT WYE CONNECTION
 - TC6 THREE PHASE 4-WIRE 346/600 VOLT WYE CONNECTION
 - TC7 THREE PHASE WYE-DELTA CONNECTION
 - TC8 THREE PHASE DELTA-DELTA CONNECTION
 - TC9 THREE PHASE 3-WIRE 480 VOLT DELTA CONNECTION
- TC10 THREE PHASE OPEN WYE-OPEN DELTA CONNECTION
- TC11 THREE PHASE OPEN DELTA-OPEN DELTA CONNECTION

UNDERG

ERGROU	<u>ND</u>
UG6	SINGLE PHASE PADMOUNTED TRANSFORMER, RADIAL FEED
UG7	SINGLE PHASE PADMOUNTED TRANSFORMER, LOOP FEED
UG8-1	UNDERGROUND CABLE ENTRANCE ARRANGEMENT FOR SINGLE PHASE PADMOUNTED TRANSFORMER
UG8-2	GROUNDING DETAIL FOR PADMOUNTED TRANSFORMER
UG8-3	SINGLE PHASE TRANSFORMER IDENTIFICATION
UG8-4	TERMINATING CABINET- SINGLE PHASE
UG9	3-PHASE OPEN DELTA PADMOUNTED BANK
UG12	THREE PHASE PADMOUNTEDTRANSFORMER, RADIAL FEED
UG13	THREE PHASE PADMOUNTED TRANSFORMER, LOOP FEED
UG14	TERMINATING CABINET-THREE PHASE
UG15	THREE PHASE TERMINATING CABINET IDENTIFICATION
UG15-1	SWITCHING CUBICLE IDENTIFICATION MARKING DETAILS
UG16	PADMOUNTED SWITCHING CUBICLE
UM1-1	UNDERGROUND CABLE LAY IN TRENCH
UM1-2	TYPICAL LAYOUT AND UNDERGROUND CABLE MARKER
UM1-3	UNDERGROUND SERVICE TO TYPICAL APARTMENT COMPLEX
UM1-4	POLE RISER SHIELD INSTALLATION
UM1-5	STANDARD PAD, FOR 75-1000 kVA RADIAL OR LOOP FEED PADMOUNTED TRANSFORMER
UM1-6	STANDARD PAD, FOR 1000-2500 kVA RADIAL OR LOOP FEED PADMOUNTED TRANSFORMER
UM1-7	TRANSFORMER CLEARENCE FROM BUILDINGS
UM1-8	CABLE GUIDES FOR METER AND SWITCHING CUBICLE VAULT
UM1-9	TRANSFORMER SECONDARY CONNECTOR BARS
UM1-10	UNDERGROUND HIGHWAY CROSSING
UM2	SINGLE PHASE OH TO UG TERMINATION
UM2-5A	THREE PHASE OH TO UG TERMINATION
UM2-7A	THREE PHASE OH TO UG FEEDER TERMINATION

UM3-16-12 THREE PHASE TERMINATING CABINET IDENTIFICATION MARKING DETAILS

UM3 UNDERGROUND SUBSTATION EXIT FEEDER CABLE

UNDERGROUND

- UM5-1 TYPICAL UNDERGROUND SERVICE INSTALLATION FROM OVERHEAD SERVICE POLE
- UM5-2 TYPICAL CUSTOMER THREE PHASE UNDERGROUND SERVICE FROM OVERHEAD TRANSFORMER POLE
- UM6,1 MISCELLANEOUS ASSEMBLIES UNDERGROUND CABLE
- UM6,2 MISCELLANEOUS ASSEMBLIES UNDERGROUND CABLE
- UM6,3 MISCELLANEOUS ASSEMBLIES UNDERGROUND CABLE
- UM6,4 MISCELLANEOUS ASSEMBLIES UNDERGROUND CABLE

SECTIONALIZING

M2 TYPICAL GROUND ROD LOCATION FOR UTILITY POLE PLACEMENT

ADDITION-M2 GROUND ROD ASSEMBLY GROUND ROD TYPE

M2-15 GROUNDING ASSEMBLY FOR AIR BREAK SWITCH

M3-2A, M3-3A SECTIONALIZING DISCONNECT SWITCHES

M3-3S SECTIONALIZING IN-LINE SWITCHES

M3-15 GANG OPERATED HORIZONTAL SWITCH

M3-15 ALTERNATE M3-15 ALTERNATE HORIZONTAL DOUBLE DEADEND

M3-15V GANG OPERATED VERTICAL SWITCH

M3-23 OIL CIRCUIT RECLOSER LIGHT DUTY (TYPE "H")

M3-23A OIL CIRCUIT RECLOSER HEAVY DUTY

M3-24A, M3-25A TWO OR THREE SECTIONALIZING OIL CIRCUIT RECLOSERS WITH BY-PASS SWITCHES

M3-30 OIL CIRCUIT RECLOSER, THREE PHASE WITH BY-PASS SWITCHES

M5.1 WIRE CHARACTERISTICS FOR COPPER, ACSR, AND AAC CONDUCTOR

M5,2 MISCELLANEOUS PRIMARY ASSEMBLIES

M5.3 MISCELLANEOUS PRIMARY ASSEMBLIES

M5-10 SECTIONALIZING-FUSED, SINGLE PHASE PRIMARY LINE PULL OFF

M5-10-2 SECTIONALIZING-FUSED, TWO PHASE PRIMARY LINE PULL OFF

M5-10-3 SECTIONALIZING-FUSED, THREE PHASE PRIMARY LINE PULL OFF

M5-10-3V SECTIONALIZING-FUSED, THREE PHASE VERTICAL PRIMARY

M7-13 THREE VOLTAGE REGULATORS PLATFORM MOUNTED

M8-22-30 OVERHEAD TO OVERHEAD THREE PHASE PRIMARY METERING

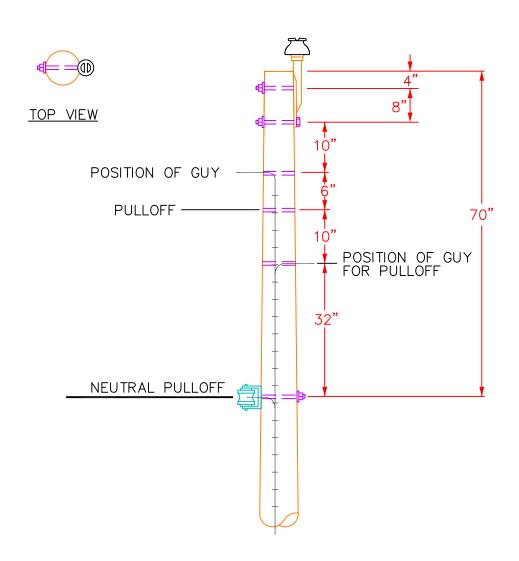
M8-22-35 OVERHEAD TO UNDERGROUND THREE PHASE PRIMARY METERING

M9-13-M2 POLE MOUNTED FIXED SHUNT CAPACITOR INSTALLATION

M9-13S POLE MOUNTED SWITCH SHUNT CAPACITOR INSTALLATION ARMLESS CONSTRUCTION, WYE, CONNECTED

GUYING

- **E1** ANCHOR GUY DETAIL
- **E1-S** SIDEWALK GUY
 - E6 DOUBLE DOWN GUY
 - E7 THREE DOWN GUYS
 - E8 FOUR DOWN GUYS
 - E9 SPAN GUY DETAIL
- **E10** GUY STRAIN INSULATOR INSTALLATION
- F1-E ANCHOR, EXPANDING
- F1-S ANCHOR, SCREW (HELIX)
 - **F4** ANCHOR, SWAMP
 - F5 ANCHOR, ROCK
 - F6 ANCHOR, APPLICATIONS GUIDE



0°-6° LINE ANGLE

STANDARD CONFIGURATION, STRAIGHT LINE CONSTRUCTION

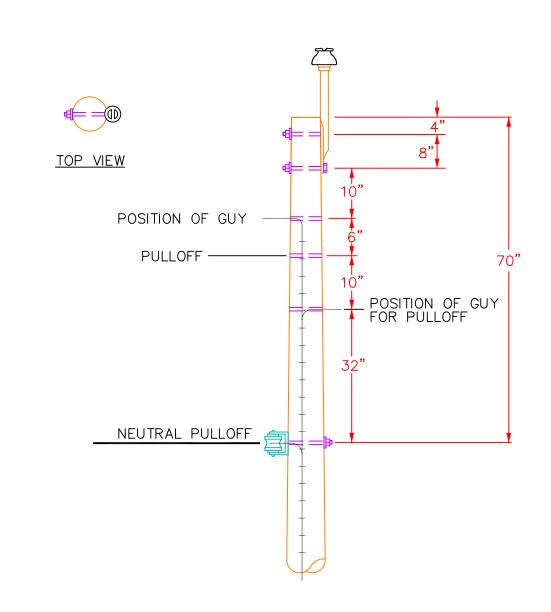
NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

	REVISIONS	AUGUST, 2002
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DATE: OCTOBER, 1992		

ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, STRAIGHT LINE CONSTRUCTION

ITEM	QUANTITY	STOCK NO.	MATERIAL
	1		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	1		CLEVIS, SECONDARY
	1		INSULATOR, PIN 15 kV
	1		INSULATOR, SPOOL
	3		NUT, LOCK, 5/8"
	1		PIN, POLE TOP
	3		WASHER, SQUARE 2-1/2" X 2-1/2"



0°-6° LINE ANGLE

STANDARD CONFIGURATION, STRAIGHT LINE CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

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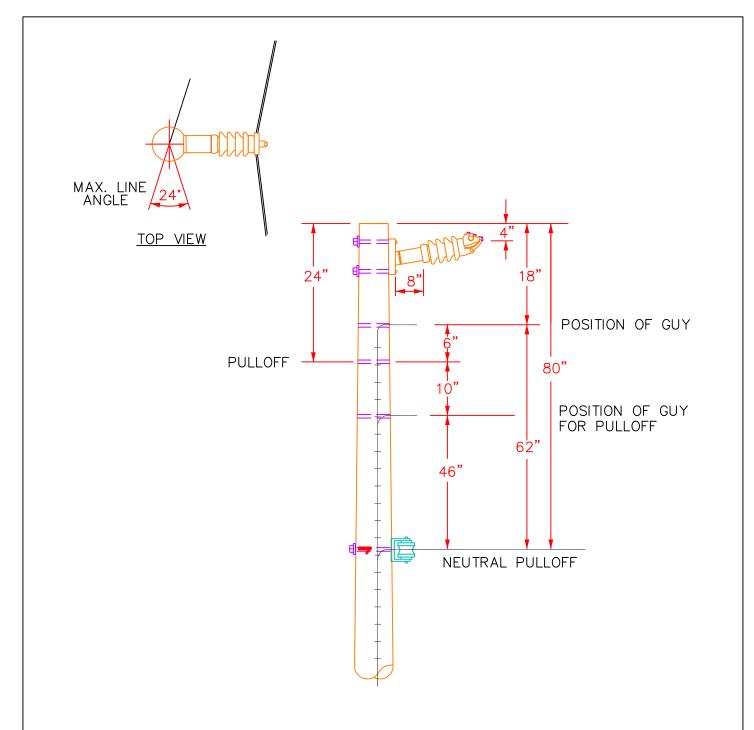
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ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, STRAIGHT LINE CONSTRUCTION

A1F

ITEM	QUANTITY	STOCK No.	MATERIAL
	3		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	1		CLEVIS, SECONDARY
	1		INSULATOR, PIN 15 kV
	1		INSULATOR, SPOOL
	3		NUT, LOCK, 5/8"
	1		PIN, POLE TOP, FIBERGLASS
	3		WASHER, SQUARE 2-1/2" X 2-1/2"



0° - 6° LINE ANGLE TIE TYPE 6° - 24° LINE ANGLE CLAMP TYPE

STANDARD CONFIGURATION, STRAIGHT LINE TO MEDUIM ANGLE CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

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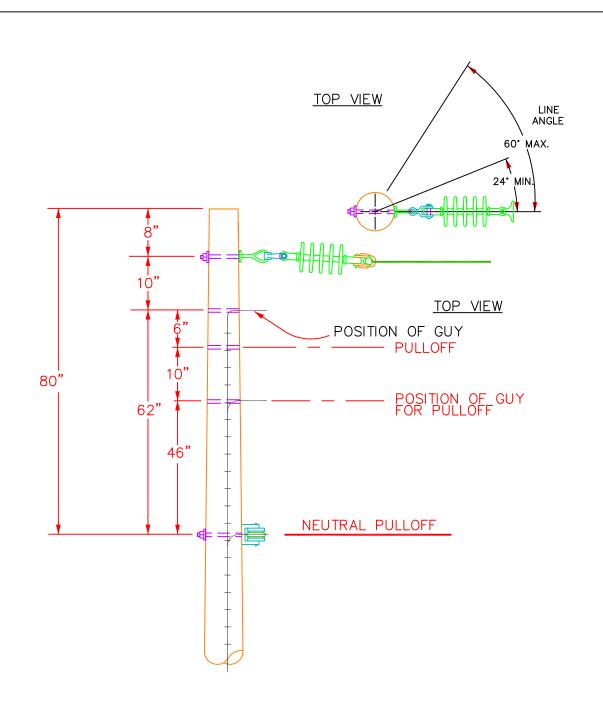
A2V

ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, STRAIGHT LINE TO MEDUIM ANGLE CONSTRUCTION

A2V

ITEM	QUANTITY	STOCK No.	MATERIAL
	3		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	1		BRACKET, 1 POST INSULATOR
	1		CLAMP, ANGLE, SIZE AS REQ'D.
	1		CLEVIS, SECONDARY
	1		INSULATOR, HORIZONTAL POST
	1		INSULATOR, SPOOL
	3		NUT, LOCK 5/8"
	1		STUD, MOUNTING, F/POST INSULATOR
	3		WASHER, SQUARE 2-1/2" X 2-1/2"



24° - 60° LINE ANGLE

STANDARD CONFIGURATION, VERTICAL SUSPENSION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

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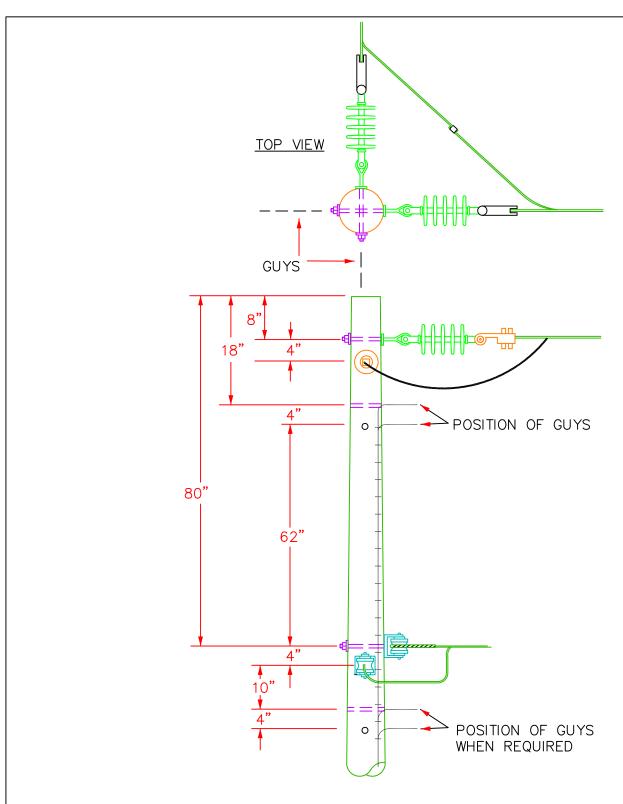
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ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, VERTICAL SUSPENSION

ITEM	QUANTITY	STOCK NO.	MATERIAL
	1		BOLT, EYE, 5/8", LENGTH AS REQ'D.
	1		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	1		CLAMP, SUSPENSION, PRIMARY
	1		CLEVIS, SECONDARY
	1		INSULATOR, SPOOL
	1		INSULATOR, SUSPENSION
	2		NUT, LOCK, 5/8"
	1		SHACKLE ANCHOR
	2		WASHER, SQUARE 2-1/2" X 2-1/2"



STANDARD CONFIGURATION, DOUBLE DEADEND ANGLE

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

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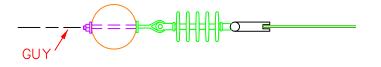
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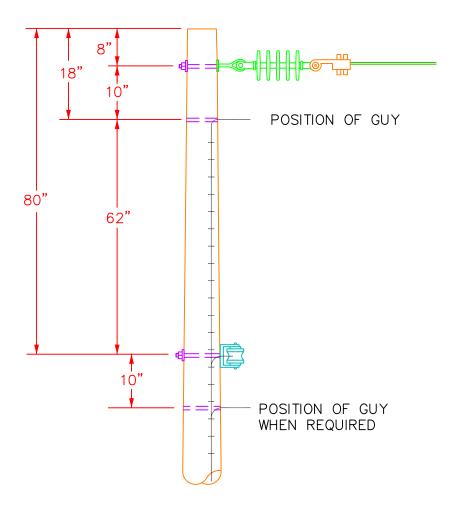
ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, DOUBLE DEADEND ANGLE

ITEM	QUANTITY	STOCK NO.	MATERIAL
	2		BOLT, EYE, 5/8", LENGTH AS REQ'D.
	2		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	2		CLEVIS, SECONDARY
	2		DEADEND ASSEMBLY, PRIMARY
	2		DEADEND NEUTRAL ASSEMBLY
	2		INSULATOR, SPOOL
	2		INSULATOR, SUSPENSION
	4		NUT, LOCK, 5/8"
	6		WASHER, SQUARE 2-1/2" X 2-1/2"



TOP VIEW



STANDARD CONFIGURATION, DEADEND

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

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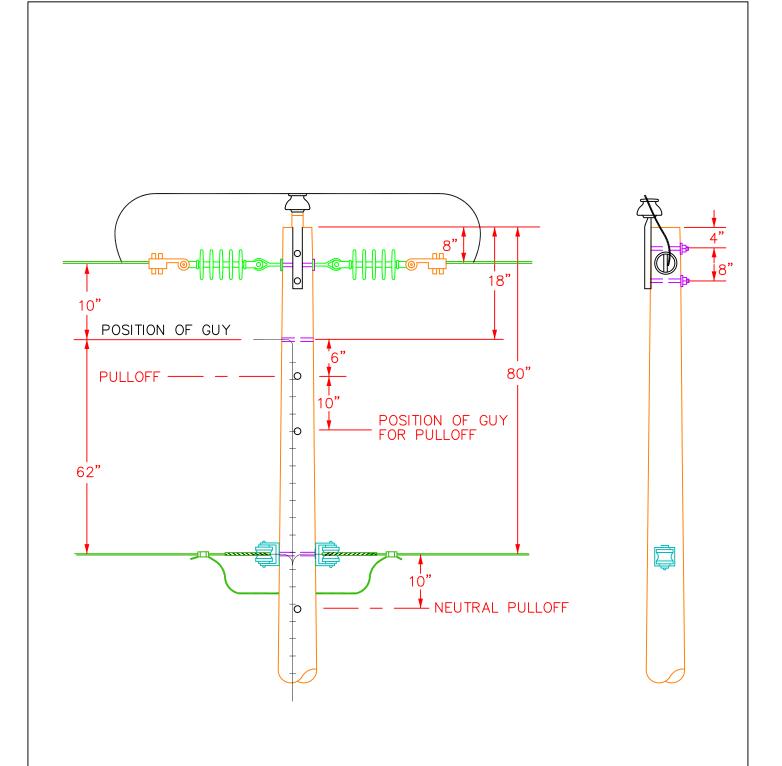
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ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, DEADEND

ITEM	QUANTITY	STOCK NO.	MATERIAL
	1		BOLT, EYE, 5/8", LENGTH AS REQ'D.
	1		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	1		CLEVIS, SECONDARY
	1		DEADEND ASSEMBLY, PRIMARY
	1		DEADEND NEUTRAL ASSEMBLY
	1		INSULATOR, SPOOL
	1		INSULATOR, SUSPENSION
	2		NUT, LOCK, 5/8"
	3		WASHER, SQUARE 2-1/2" X 2-1/2"



STANDARD CONFIGURATION, DOUBLE DEADEND

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

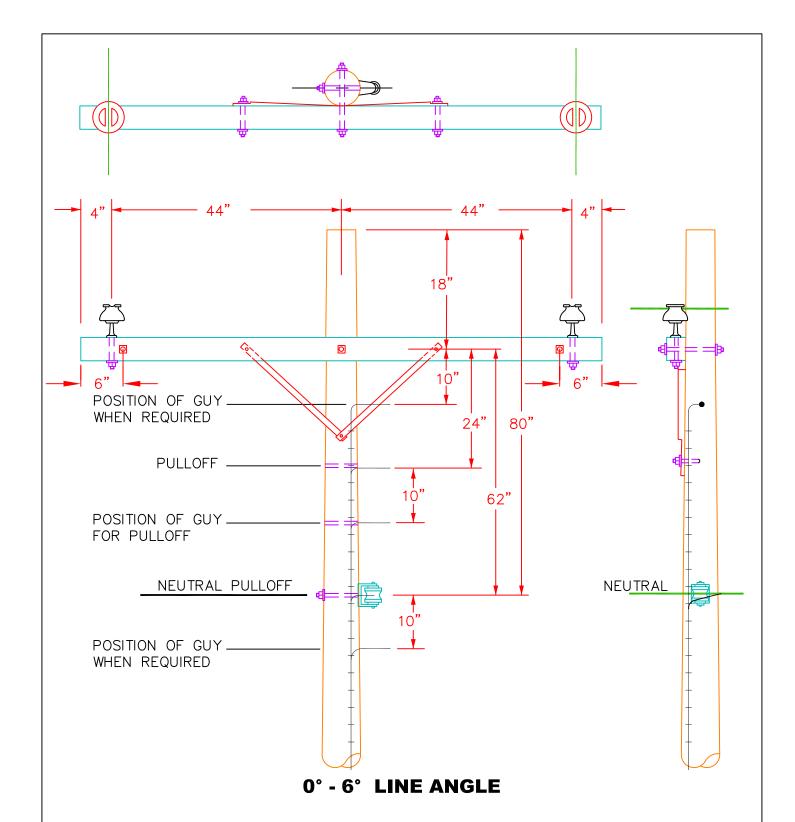
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ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, DOUBLE DEADEND

ITEM	QUANTITY	STOCK No.	MATERIAL
	1		BOLT, EYE, 5/8", LENGTH AS REQ'D.
	3		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	2		CLEVIS, SECONDARY
	2		DEADEND ASSEMBLY, PRIMARY
	2		DEADEND NEUTRAL ASSEMBLY
	1		EYENUT, 5/8"
	1		INSULATOR, PIN 15 kV
	2		INSULATOR, SPOOL
	2		INSULATOR, SUSPENSION
	4		NUT, LOCK, 5/8"
	1		PIN, POLE TOP
	4		WASHERS, SQUARE 2-1/2" X 2-1/2"



STRAIGHT LINE, CROSSARM CONSTRUCTION, SINGLE ARM SUPPORT

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

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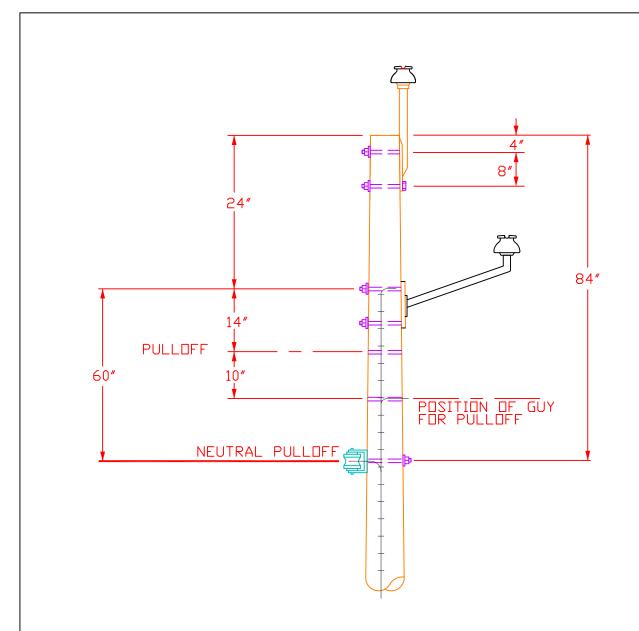
B1

ELECTRIC CITIES OF GEORGIA

STRAIGHT LINE, CROSSARM CONSTRUCTION, SINGLE ARM SUPPORT

B1

ITEM	QUANTITY	STOCK No.	MATERIAL
	2		BOLT, CARRIAGE 3/8", LENGTH AS REQ'D.
	2		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	2		BOLT, MACHINE, 5/8" X 6"
	2		BRACE, CROSSARM, 28"
	1		CLEVIS, SECONDARY
	1		CROSSARM, WOOD, 8'
	2		INSULATOR, PIN 15 kV
	1		INSULATOR SPOOL
	6		NUT, LOCK, 5/8"
	2		PIN, STEEL, CROSSARM, 5" W/1" HEAD
	1		SCREW, LAG, 1/2" X 4"
	2		WASHERS, 3/8", FLAT
	9		WASHERS, SQUARE 2-1/2" X 2-1/2"



0°-6° LINE ANGLE

STANDARD CONFIGURATION, STRAIGHT LINE CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

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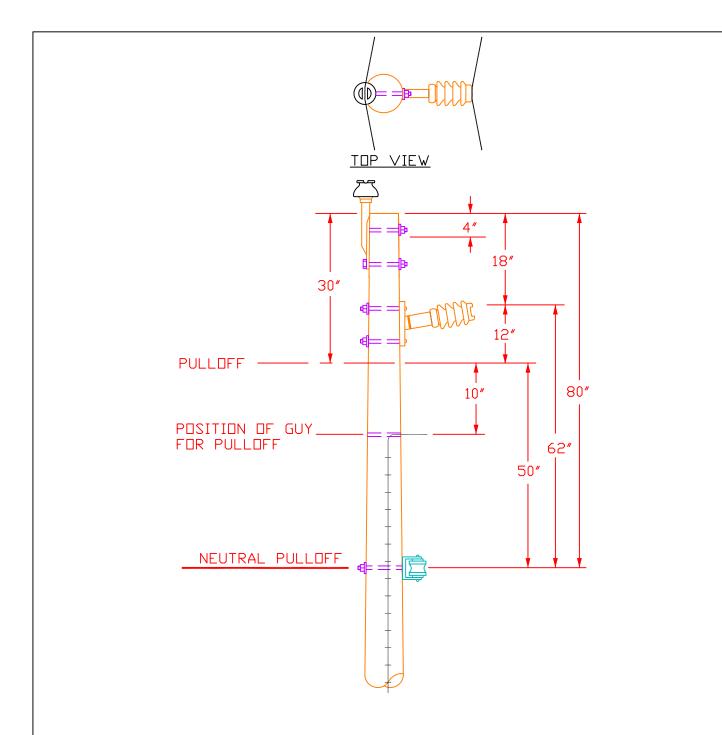
B1F

ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, STRAIGHT LINE CONSTRUCTION

B1F

ITEM	QUANTITY	STOCK No.	MATERIAL
	5		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	1		BRACKET, FIBERGLASS, 1 PIN INSULATOR
	1		CLEVIS, SECONDARY
	2		INSULATOR, PIN 15 kV
	1		INSULATOR, SPOOL
	5		NUT, LOCK, 5/8"
	1		PIN, POLE TOP, FIBERGLASS
	5		WASHERS, SQUARE 2-1/2" X 2-1/2"



0°-6° LINE ANGLE

STANDARD CONFIGURATION, STRAIGHT LINE CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

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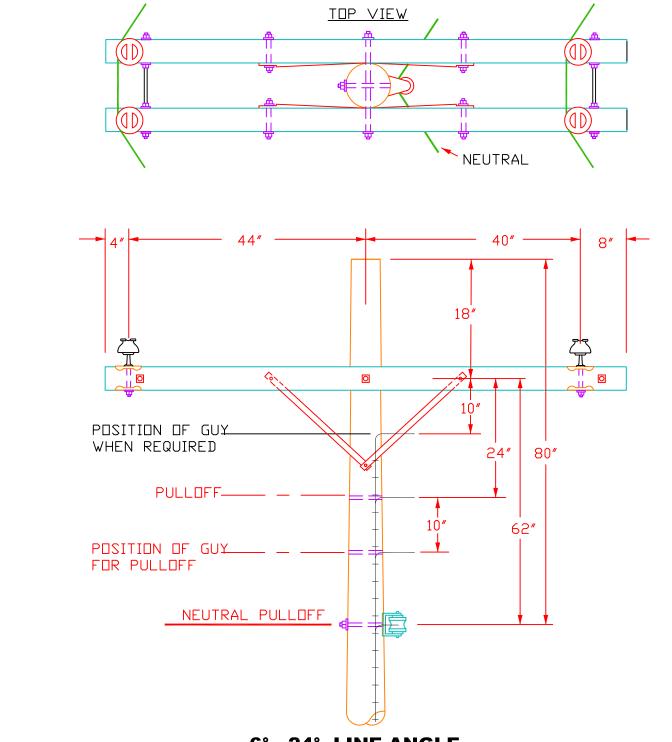
B₁P

ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, STRAIGHT LINE CONSTRUCTION

B1P

ITEM	QUANTITY	STOCK No.	MATERIAL
	5		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	1		BRACKET, 1 POST INSULATOR
	1		CLEVIS, SECONDARY
	1		INSULATOR, HORIZONTAL, POST TIE TOP
	1		INSULATOR, PIN 15 kV
	1		INSULATOR, SPOOL
	1		PIN, POLE TOP
	5		NUT, LOCK 5/8"
	1		STUD, MOUNTING, F/POST INSULATOR
	5		WASHERS, SQUARE 2-1/2" X 2-1/2"



6°-24° LINE ANGLE

STANDARD CONFIGURATION, MEDIUM ANGLE, CROSSARM CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

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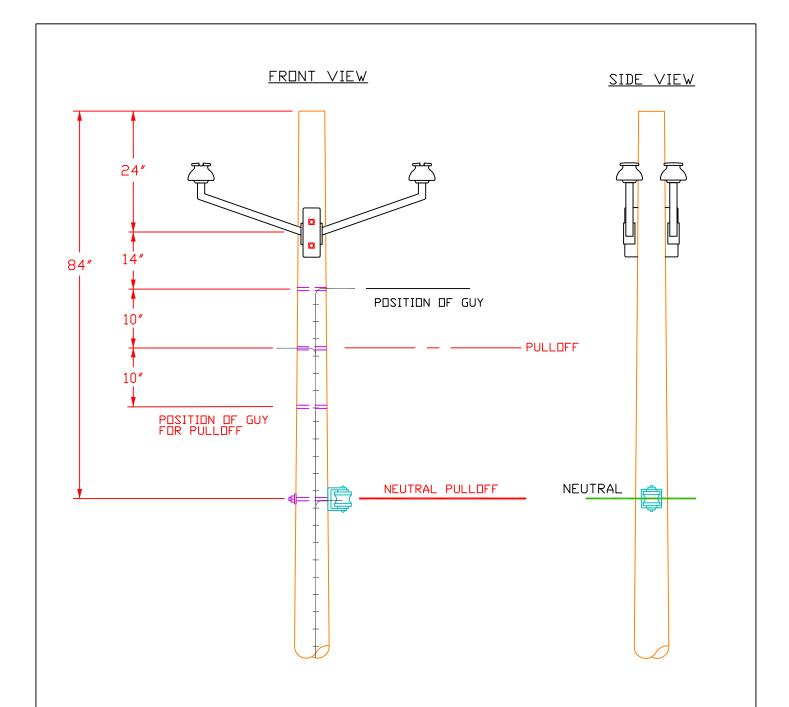
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ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, MEDIUM ANGLE, CROSSARM CONSTRUCTION

B2

ITEM	QUANTITY	STOCK NO.	MATERIAL
	4		BOLT, CARRIAGE, 3/8", LENGTH AS REQ'D.
	3		BOLT, D.A., 5/8", LENGTH AS REQ'D.
	1		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	4		BRACE, CROSSARM, 28"
	1		CLEVIS, SECONDARY
	2		CROSSARM, WOOD, 8'
	4		INSULATOR, PIN 15 kV
	1		INSULATOR, SPOOL
	7		NUT, LOCK, 5/8"
	4		PIN, STEEL, CROSSARM, SADDLE TYPE
	2		SCREW, LAG, 1/2" X 4"
	4		WASHER, 3/8", FLAT
	11		WASHERS, SQUARE 2-1/2" X 2-1/2"



6° - 24° LINE ANGLE

STANDARD CONFIGURATION, MEDIUM ANGLE CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

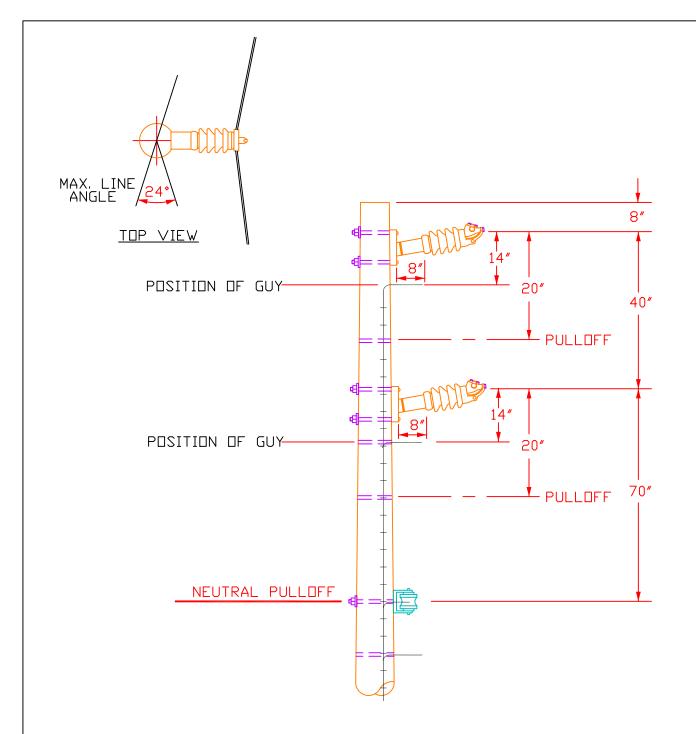
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DATE: OCTOBER, 1992		

ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, MEDIUM ANGLE CONSTRUCTION

B2F

ITEM	QUANTITY	STOCK NO.	MATERIAL
	3		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	2		BRACKET, FIBERGLASS, 2 PIN INSULATOR
	1		CLEVIS, SECONDARY
	4		INSULATOR, PIN 15 kV
	1		INSULATOR, SPOOL
	3		NUT, LOCK, 5/8"
	3		WASHERS, SQUARE 2-1/2" X 2-1/2"



0° - 6° LINE ANGLE TIE TYPE 6° - 24° LINE ANGLE CLAMP TYPE

STANDARD CONFIGURATION, VERTICAL STRAIGHT LINE TO MEDIUM ANGLE CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

electric	cities o	f georgia

REVISIONS <u>JULY, 2002</u> JANUARY, 2006

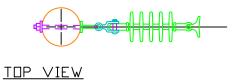
B₂V

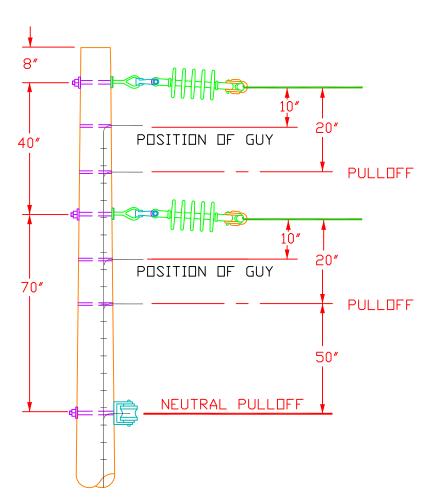
ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, VERTICAL STRAIGHT LINE TO MEDIUM ANGLE CONSTRUCTION

B₂V

ITEM	QUANTITY	STOCK NO.	MATERIAL
	5		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	2		BRACKET, 1 POST INSULATOR 8"
	2		CLAMP, ANGLE, SIZE AS REQ'D.
	1		CLEVIS, SECONDARY
	2		INSULATOR, HORIZONTAL POST
	1		INSULATOR, SPOOL
	5		NUT, LOCK, 5/8"
	2		STUD, MOUNTING, F/POST INSULATOR
	5		WASHERS, SQUARE 2-1/2" X 2-1/2"





24°-60° LINE ANGLE

STANDARD CONFIGURATION, VERTICAL SUSPENSION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

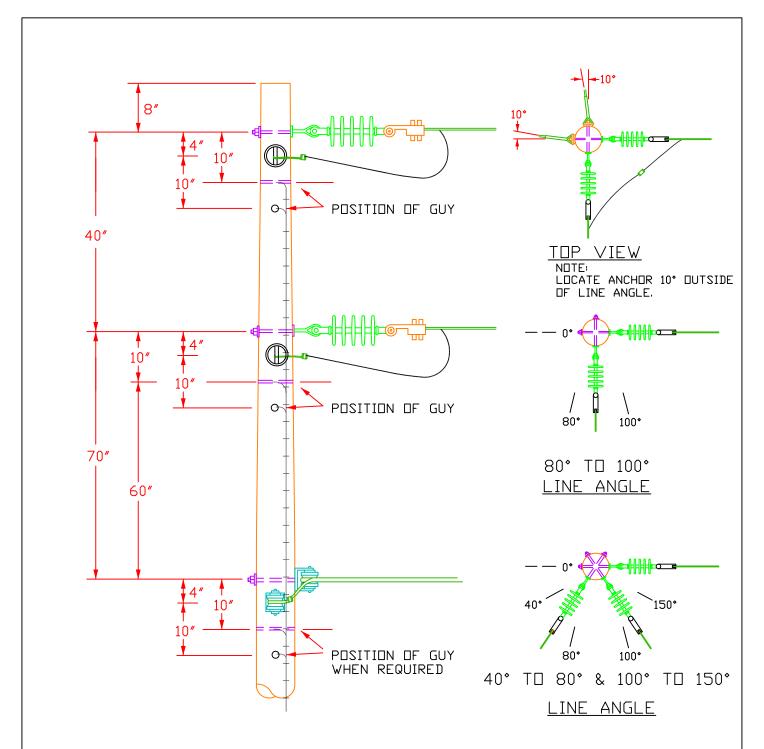
electric	cities c	of georgia

REVISIONS	JULY,	2002	
JANUARY,	2007		

ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, VERTICAL SUSPENSION

ITEM	QUANTITY	STOCK NO.	MATERIAL
	2		BOLT, EYE, 5/8", LENGTH AS REQ'D.
	1		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	2		CLAMP, SUSPENSION, PRIMARY
	1		CLEVIS, SECONDARY
	1		INSULATOR, SPOOL
	2		INSULATOR, SUSPENSION
	3		NUT, LOCK, 5/8"
	2		SHACKLE ANCHOR
	5		WASHERS, SQUARE 2-1/2" X 2-1/2"



USE BOTTOM GUY POSITION ON WIRE SIZES LARGER THAN 1/0 ACSR

STANDARD CONFIGURATION, VERTICAL CONSTRUCTION, DOUBLE DEADEND ANGLE

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

electric	cities	of georgia

REVISIONS <u>JULY, 2002</u> JANUARY, 2007

B4

DATE: OCTOBER, 1992

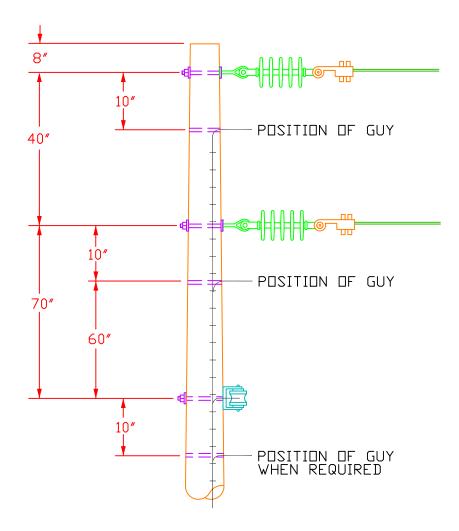
ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, VERTICAL CONSTRUCTION, DOUBLE DEADEND ANGLE

ITEM	QUANTITY	STOCK NO.	MATERIAL
	4		BOLT, EYE, 5/8", LENGTH AS REQ'D.
	2		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	2		CLEVIS, SECONDARY
	4		DEADEND ASSEMBLY, PRIMARY
	2		DEADEND NEUTRAL ASSEMBLY
	2		INSULATOR, SPOOL
	4		INSULATOR, SUSPENSION
	6		NUT, LOCK, 5/8"
	10		WASHERS, SQUARE 2-1/2" X 2-1/2"



TOP VIEW



VERTICAL CONSTRUCTION, DEADEND

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

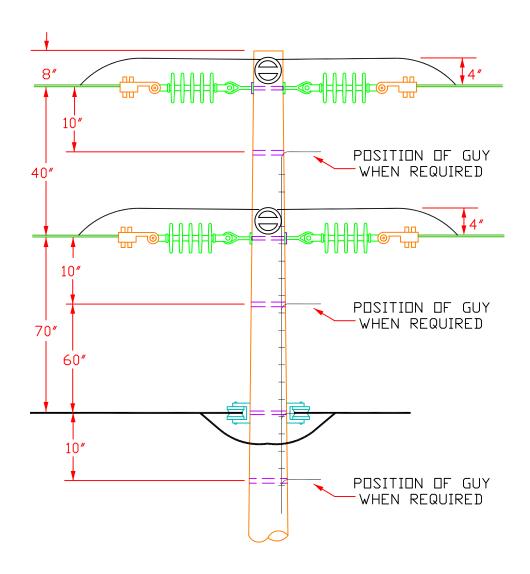
electric	cities	of georgia

REVISIONS	JULY,	2002	
JANUARY,	2007		

ELECTRIC CITIES OF GEORGIA

VERTICAL CONSTRUCTION, DEADEND

ITEM	QUANTITY	STOCK No.	MATERIAL
	2		BOLT, EYE, 5/8", LENGTH AS REQ'D.
	1		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	1		CLEVIS, SECONDARY
	2		DEADEND ASSEMBLY, PRIMARY
	1		DEADEND NEUTRAL ASSEMBLY
	1		INSULATOR, SPOOL
	2		INSULATOR, SUSPENSION
	3		NUT, LOCK, 5/8"
	5		WASHERS, SQUARE 2-1/2" X 2-1/2"



VERTICAL CONSTRUCTION, DOUBLE DEADEND

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

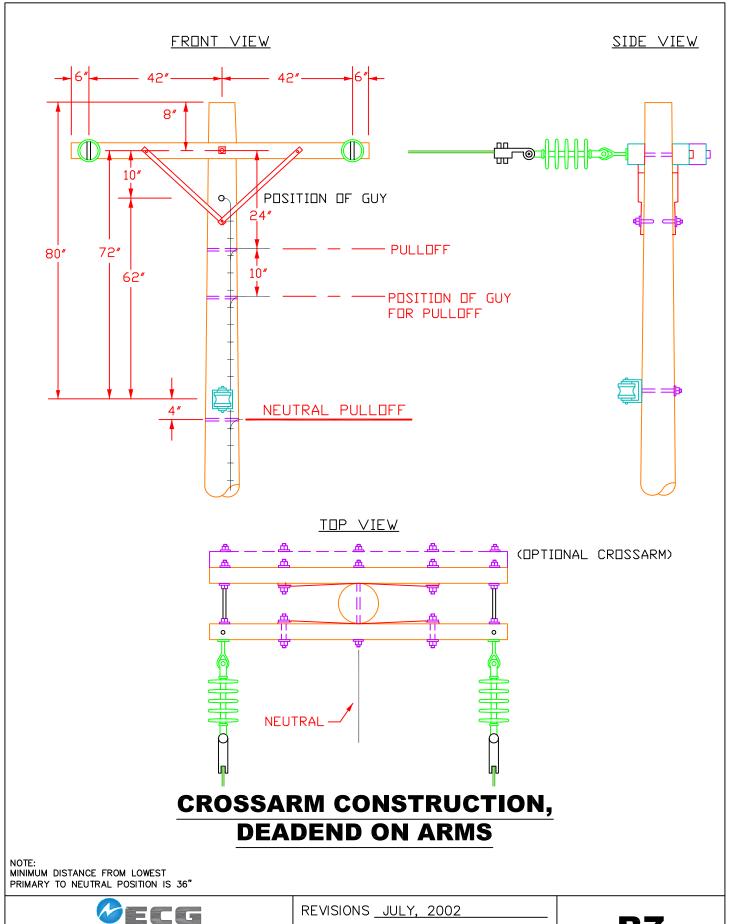
electric	cities o	faeoraia

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ELECTRIC CITIES OF GEORGIA

VERTICAL CONSTRUCTION, DOUBLE DEADEND

ITEM	QUANTITY	STOCK NO.	MATERIAL	
	2		BOLT, D.A., 5/8", LENGTH AS REQ'D.	
	2		BOLT, EYE, 5/8", LENGTH AS REQ'D.	
	1		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.	
	2		CLEVIS, SECONDARY	
	4		DEADEND ASSEMBLY, PRIMARY	
	2		DEADEND NEUTRAL ASSEMBLY	
	2		INSULATOR, HORIZONTAL POST TIE TOP	
	2		EYENUT, 5/8"	
	2		INSULATOR, PIN 15 kV	
	2		INSULATOR, SPOOL	
	4		INSULATOR, SUSPENSION	
	7		NUT, LOCK, 5/8"	
	2		PIN, JUMPER, LEAD HEAD	
	8		WASHERS, SQUARE 2-1/2" X 2-1/2"	



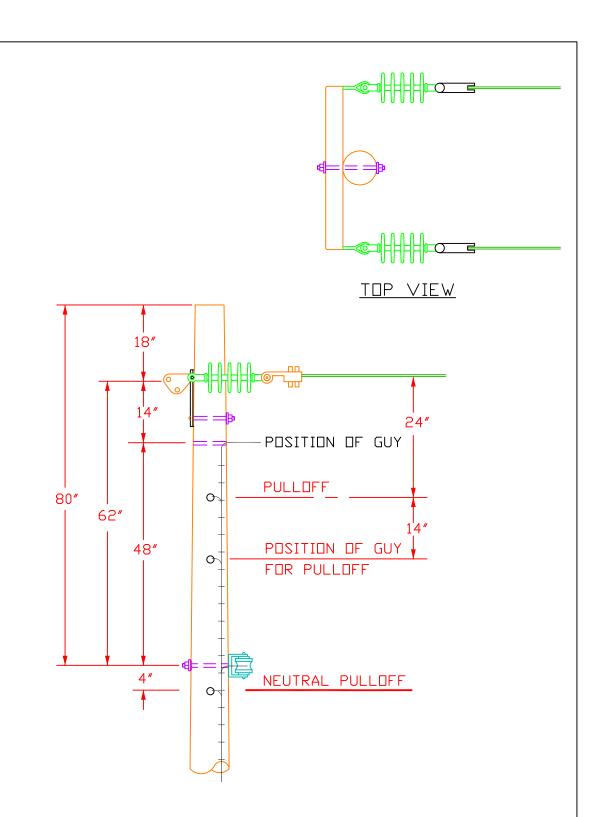
DATE: OCTOBER, 1992

JANUARY, 2007

ELECTRIC CITIES OF GEORGIA

CROSSARM CONSTRUCTION, DEADEND ON ARMS

ITEM	QUANTITY	STOCK NO.	MATERIAL		
	4		BOLT, CARRIAGE 3/8", LENGTH AS REQ'D.		
	3		BOLT, D.A., 5/8", LENGTH AS REQ'D.		
	1		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.		
	4		BRACE, CROSSARM, 28"		
	1		CLEVIS, SECONDARY		
	2		CROSSARM, WOOD, 8'		
	2		DEADEND ASSEMBLY, PRIMARY		
	1		DEADEND NEUTRAL ASSEMBLY		
	2		EYENUT, 5/8"		
	1		INSULATOR, SPOOL		
	2		INSULATOR, SUSPENSION		
	7		NUT, LOCK, 5/8"		
	2		SCREW, LAG, 1/2" X 4"		
	4		WASHER, 3/8", FLAT		
	11		WASHERS, SQUARE 2-1/2" X 2-1/2"		



STANDARD CONFIGURATION, HORIZONTAL DEADEND

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

6			
	electric	cities	of georgia

REVISIONS <u>JULY, 2002</u> JANUARY, 2007

B7S

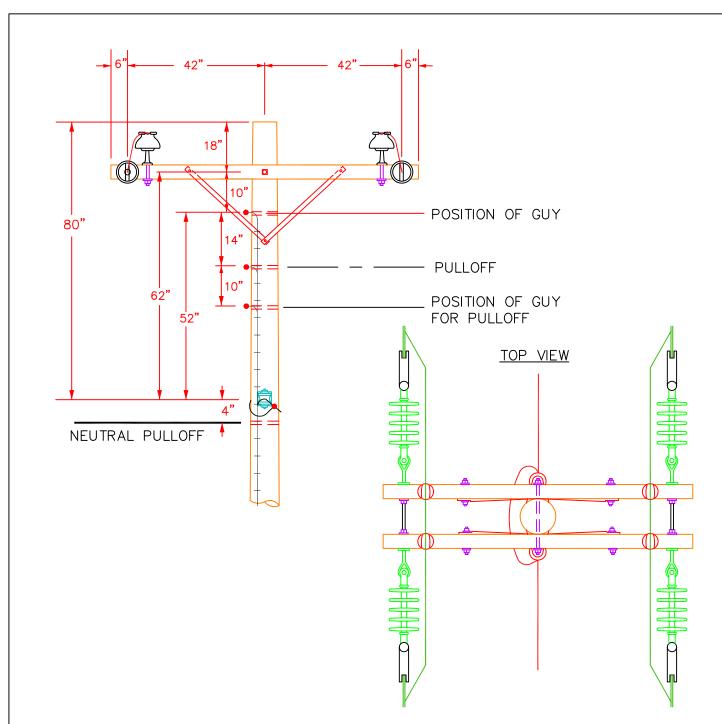
DATE: OCTOBER, 1992

ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, HORIZONTAL DEADEND

B7S

ITEM	QUANTITY	STOCK NO.	MATERIAL
	3		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	1		CLEVIS, SECONDARY
	1		CROSSARM, STEEL 5'
	2		DEADEND ASSEMBLY, PRIMARY
	1		DEADEND NEUTRAL ASSEMBLY
	1		INSULATOR, SPOOL
	2		INSULATOR, SUSPENSION
	3		NUT, LOCK, 5/8"
	3		WASHERS, SQUARE 2-1/2" X 2-1/2"



0° - 24° LINE ANGLE

CROSSARM CONSTRUCTION, HORIZONTAL DOUBLE DEADEND

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

electric	cities	of georgia

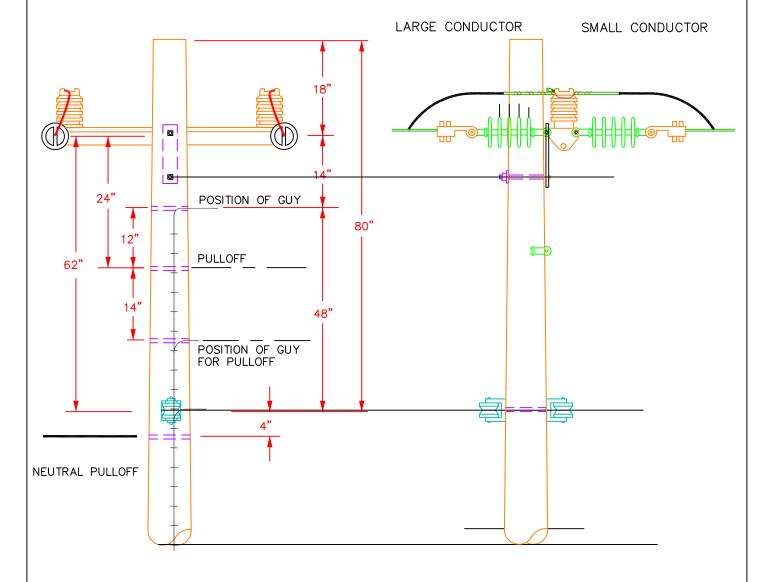
REVISIONS <u>JULY, 2002</u> JANUARY, 2007

ELECTRIC CITIES OF GEORGIA

CROSSARM CONSTRUCTION, HORIZONTAL DOUBLE DEADEND

ITEM	QUANTITY	STOCK NO.	MATERIAL
	4		BOLT, CARRIAGE 3/8", LENGTH AS REQ'D.
	3		BOLT, D.A., 5/8", LENGTH AS REQ'D.
	1		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	4		BRACE, CROSSARM, 28"
	2		CLEVIS, SECONDARY
	2		CROSSARM, WOOD, 8'
	4		DEADEND ASSEMBLY, PRIMARY
	2		DEADEND NEUTRAL ASSEMBLY
	4		EYENUT, 5/8"
	4		INSULATOR, PIN 15 kV
	2		INSULATOR, SPOOL
	4		INSULATOR, SUSPENSION
	11		NUT, LOCK, 5/8"
	4		PIN, STEEL, CROSSARM, 5" W/1" HEAD
	2		SCREW, LAG, 1/2" X 4"
	4		WASHER, 3/8", FLAT
	14		WASHERS, SQUARE 2-1/2" X 2-1/2"

FRONT VIEW SIDE VIEW



0° - 24° LINE ANGLE

STANDARD CONFIGURATION, HORIZONTAL DOUBLE DEADEND, WIRE SIZE CHANGE

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

electric	cities c	of georgia

REVISIONS <u>JULY, 2002</u> JANUARY, 2007

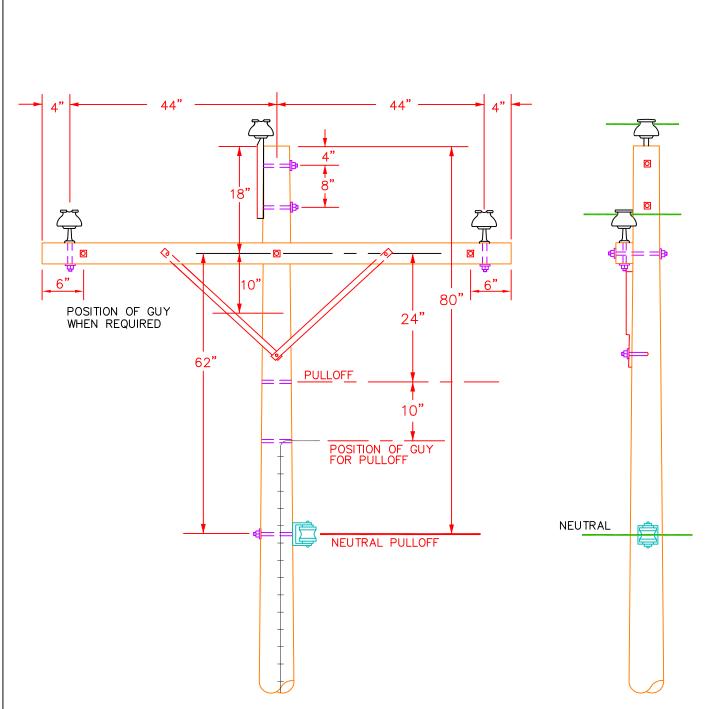
B8S

ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, HORIZONTAL DOUBLE DEADEND, WIRE SIZE CHANGE

B8S

ITEM	QUANTITY	STOCK No.	MATERIAL
	3		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	2		CLEVIS, SECONDARY
	1		CROSSARM, STEEL 5'
	4		DEADEND ASSEMBLY, PRIMARY
	2		DEADEND NEUTRAL ASSEMBLY
	2		INSULATOR, HORIZONTAL POST TIE TOP
	2		INSULATOR, SPOOL
	4		INSULATOR, SUSPENSION
	3		NUT, LOCK, 5/8"
	2		STUD, MOUNTING, F/POST INSULATOR
	2		WASHERS, SQUARE 2-1/2" X 2-1/2"



0°-6° LINE ANGLE TIE TYPE

STANDARD CONFIGURATION, STRAIGHT LINE CROSSARM CONSTRUCTION, SINGLE ARM SUPPORT

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

electric	cities	of georgia	

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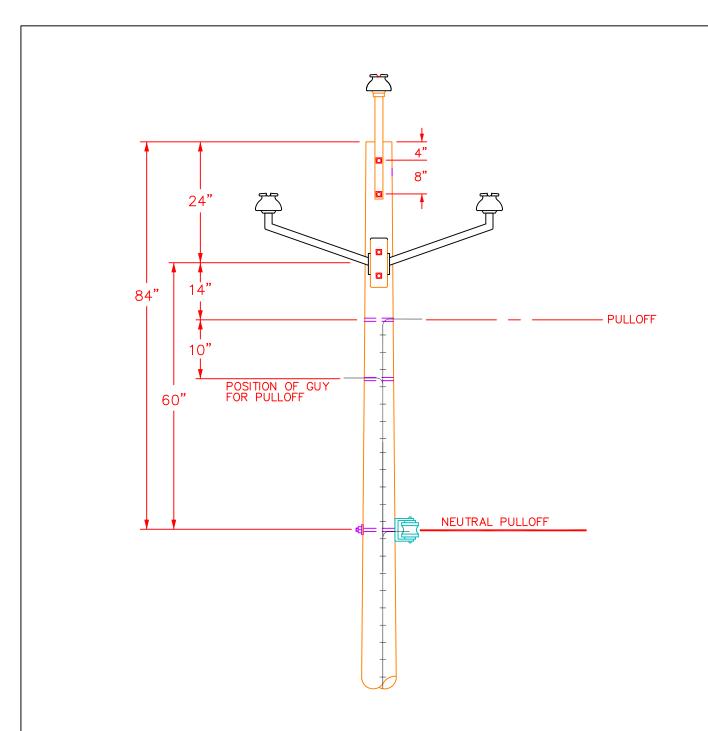
C1

ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, STRAIGHT LINE CROSSARM CONSTRUCTION, SINGLE ARM SUPPORT

C₁

ITEM	QUANTITY	STOCK No.	MATERIAL
	2		BOLT, CARRIAGE 3/8", LENGTH AS REQ'D.
	2		BOLT, MACHINE, 5/8" X 6"
	4		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	2		BRACE, CROSSARM, 28"
	1		CLEVIS, SECONDARY
	1		CROSSARM, WOOD, 8'
	3		INSULATOR, PIN 15 kV
	1		INSULATOR SPOOL
	8		NUT, LOCK, 5/8"
	1		PIN, POLE TOP
	2		PIN, STEEL, CROSSARM, 5" W/1" HEAD
	1		SCREW, LAG, 1/2" X 4"
	2		WASHERS, 3/8", FLAT
	11		WASHERS, SQUARE 2-1/2" X 2-1/2"



0°-6° LINE ANGLE

STANDARD CONFIGURATION, STRAIGHT LINE CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

electric	cities c	of georgia

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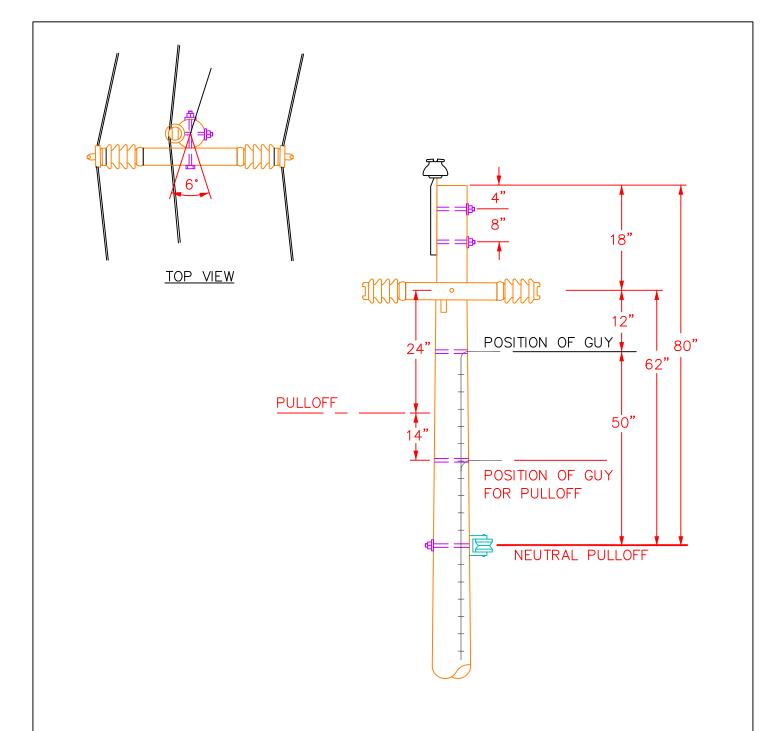
C1F

ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, STRAIGHT LINE CONSTRUCTION

C1F

ITEM	QUANTITY	STOCK NO.	MATERIAL
	5		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	1		BRACKET, FIBERGLASS, 2 PIN INSULATOR
	1		CLEVIS, SECONDARY
	3		INSULATOR, PIN 15 kV
	1		INSULATOR, SPOOL
	5		NUT, LOCK, 5/8"
	1		PIN, POLE TOP, FIBERGLASS
	5		WASHERS, SQUARE 2-1/2" X 2-1/2"



0°-6° LINE ANGLE

STANDARD CONFIGURATION, STRAIGHT LINE CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

electric	cities	of georgia

REVISIONS JULY, 2002

C1PS

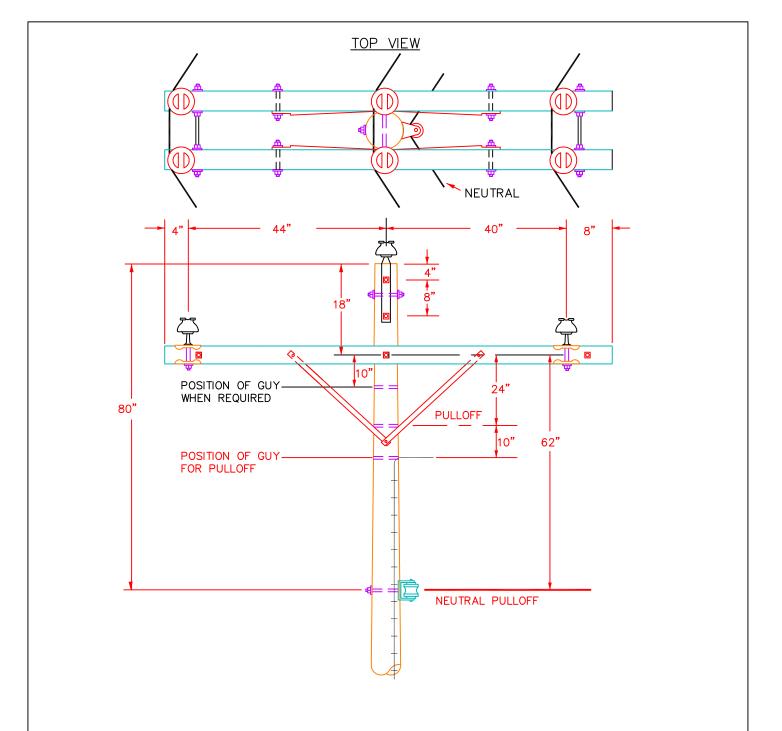
DATE: OCTOBER, 1992

ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, STRAIGHT LINE CONSTRUCTION

C1PS

TEM	QUANTITY	STOCK No.	MATERIAL
	1		ARM, STEEL, 2 POST INSULATOR, 36"
	4		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	1		CLEVIS, SECONDARY
	2		INSULATOR, HORIZONTAL POST TIE TOP
	1		INSULATOR, PIN 15 kV
	1		INSULATOR, SPOOL
	4		NUT, LOCK, 5/8"
	1		PIN, POLE TOP
	2		STUD, MOUNTING, F/POST INSULATOR
	4		WASHERS, SQUARE 2-1/2" X 2-1/2"



6° - 24° LINE ANGLE

STANDARD CONFIGURATION, MEDIUM ANGLE, CROSSARM CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

electric	cities	of georgia

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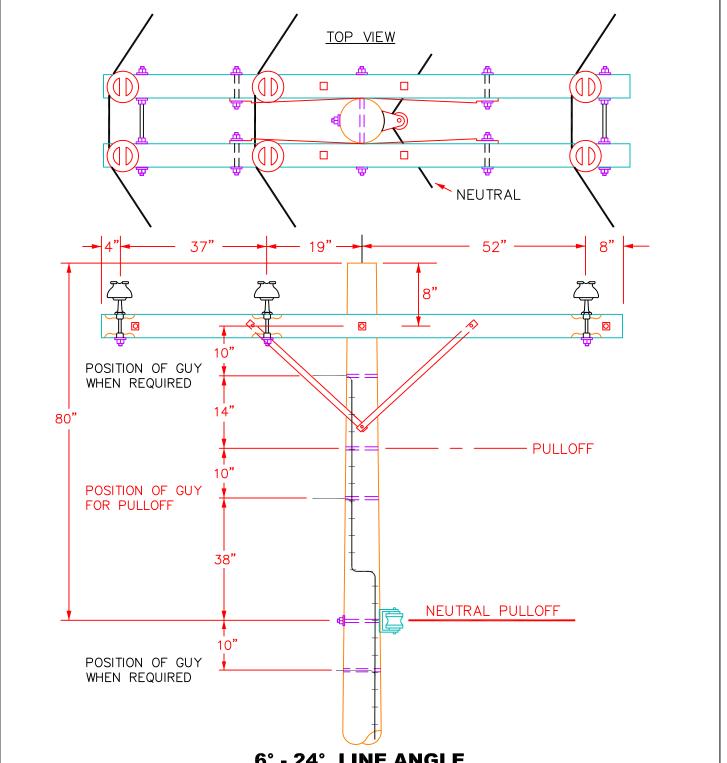
C₂

ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, MEDIUM ANGLE, CROSSARM CONSTRUCTION

C2

ITEM	QUANTITY	STOCK No.	MATERIAL
	4		BOLT, CARRIAGE 3/8", LENGTH AS REQ'D.
	3		BOLT, D.A., 5/8", LENGTH AS REQ'D.
	4		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	4		BRACE, CROSSARM, 28"
	1		CLEVIS, SECONDARY
	2		CROSSARM, WOOD, 8'
	6		INSULATOR, PIN 15 kV
	1		INSULATOR, SPOOL
	10		NUT, LOCK, 5/8"
	2		PIN, POLE TOP
	4		PIN, STEEL, CROSSARM, SADDLE TYPE
	2		SCREW, LAG, 1/2" X 4"
	4		WASHER, 3/8", FLAT
	13		WASHERS, SQUARE 2-1/2" X 2-1/2"



6°-24° LINE ANGLE

ALTERNATE CONFIGURATION, MEDIUM ANGLE, CROSSARM CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

electric	cities	of georgia

REVISIONS JULY, 2002

C2-1

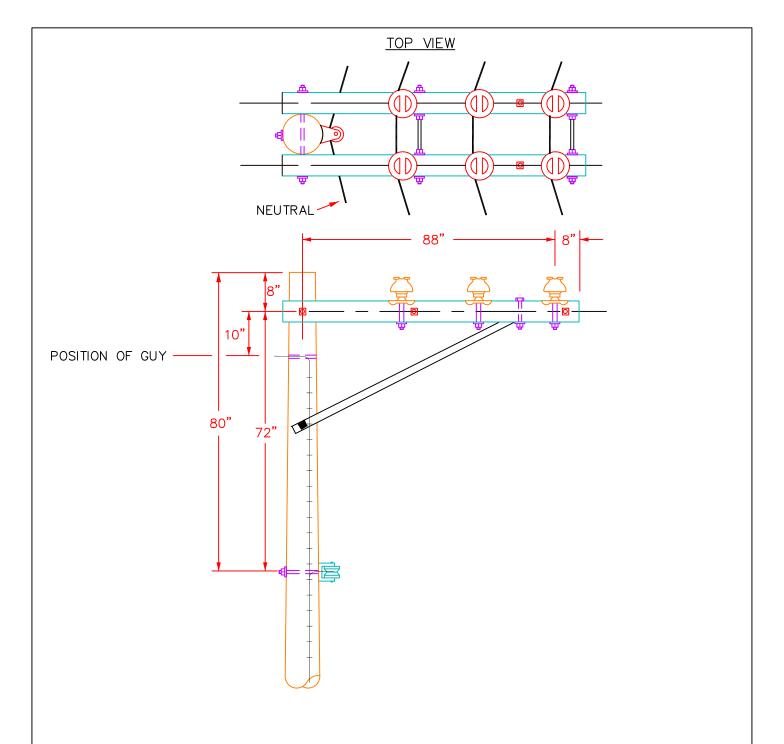
DATE: OCTOBER, 1992

ELECTRIC CITIES OF GEORGIA

ALTERNATE CONFIGURATION, MEDIUM ANGLE, CROSSARM CONSTRUCTION

C2-1

ITEM	QUANTITY.	STOCK NO.	MATERIAL
	4		BOLT, CARRIAGE 3/8", LENGTH AS REQ'D.
	3		BOLT, D.A., 5/8", LENGTH AS REQ'D.
	1		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	4		BRACE, CROSSARM, 28"
	1		CLEVIS, SECONDARY
	2		CROSSARM, WOOD, 10'
	6		INSULATOR, PIN 15 kV
	1		INSULATOR, SPOOL
	7		NUT, LOCK, 5/8"
	6		PIN, STEEL, CROSSARM, SADDLE TYPE
	2		SCREW, LAG, 1/2" X 4"
	4		WASHER, 3/8", FLAT
	11		WASHERS, SQUARE 2-1/2" X 2-1/2"



0° - 10° LINE ANGLE THROUGH 1/0 ACSR 0° - 8° LINE ANGLE ABOVE 1/0 ACSR N/A - 750 AAC

ALLEY ARM CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

electric	cities of	georgia

REVISIONS JULY, 2002

C2-2A

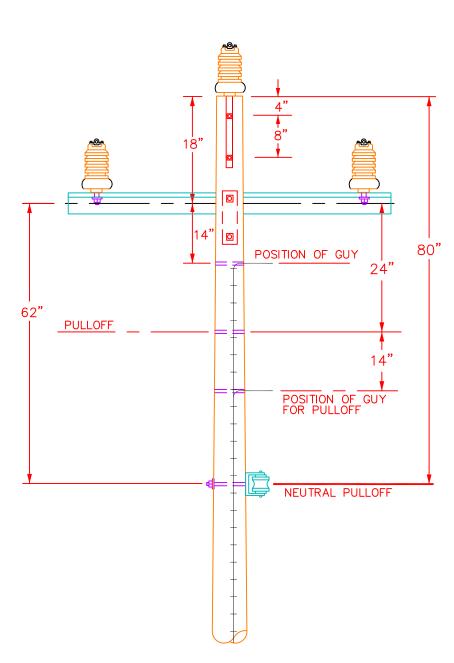
DATE: OCTOBER, 1992

ELECTRIC CITIES OF GEORGIA

ALLEY ARM CONSTRUCTION

C2-2A

ITEM	QUANTITY	STOCK NO.	MATERIAL
	3		BOLT, D.A., 5/8", LENGTH AS REQ'D.
	2		BOLT, MACHINE, 1/2" X 6"
	2		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	2		BRACE, STEEL, 7', ALLEY ARM
	1		CLEVIS, SECONDARY
	2		CROSSARM, WOOD, 8'
	6		INSULATOR, PIN 15 kV
	1		INSULATOR, SPOOL
	2		NUT, LOCK, 1/2"
	8		NUT, LOCK, 5/8"
	6		PIN, STEEL, CROSSARM, SADDLE TYPE
	2		SCREW, LAG, 1/2" X 4"
	4		WASHER, 3/8", FLAT
	11		WASHERS, SQUARE 2-1/2" X 2-1/2"



0° - 10° LINE ANGLE THROUGH 1/0 ACSR 0° - 20° LINE ANGLE ABOVE 1/0 ACSR

STEEL ARM, MEDIUM ANGLE CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

electric	cities	of georgia

REVISIONS JULY, 2002

C2-2S

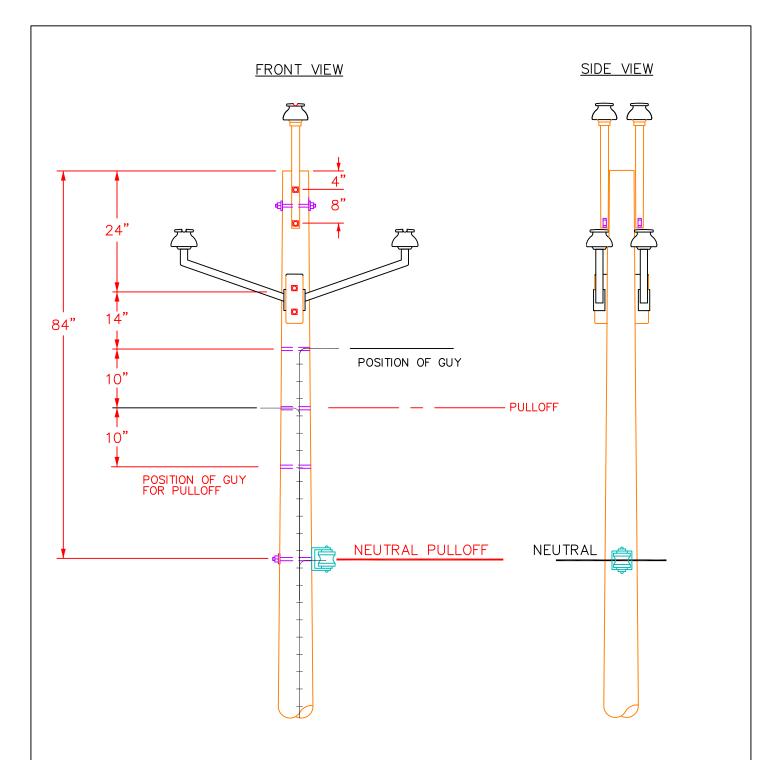
DATE: OCTOBER, 1992

ELECTRIC CITIES OF GEORGIA

STEEL ARM, MEDIUM ANGLE CONSTRUCTION

C2-2S

ITEM	QUANTITY.	STOCK No.	MATERIAL
	5		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	1		CLEVIS, SECONDARY
	1		CROSSARM, STEEL, 60" OR 78"
	1		INSULATOR, SPOOL
	3		INSULATOR, VERTICAL, POST CLAMP TOP
	5		NUT, LOCK, 5/8"
	1		PIN, POLE TOP, VERTICAL FOR POST INSULATOR
	3		STUD, MOUNTING, F/POST INSULATOR
	5		WASHERS, SQUARE 2-1/2" X 2-1/2"



6° - 24° LINE ANGLE

STANDARD CONFIGURATION, MEDIUM ANGLE CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

electric	cities	of georgia

REVISIONS JULY, 2002

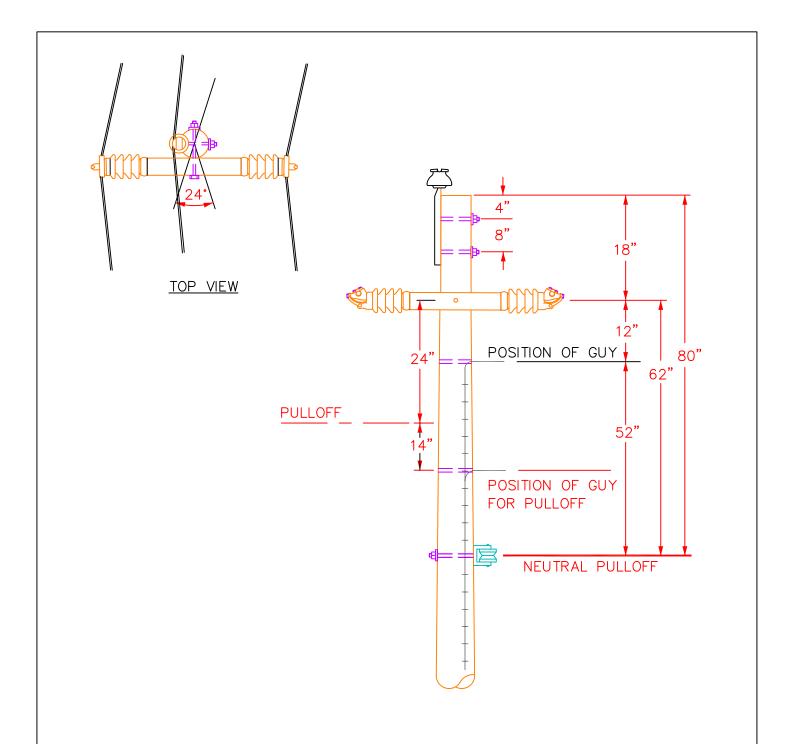
C2F

ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, MEDIUM ANGLE CONSTRUCTION

C2F

ITEM	QUANTITY	STOCK NO.	MATERIAL
	6		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	2		BRACKET, FIBERGLASS, 2 PIN INSULATOR
	1		CLEVIS, SECONDARY
	6		INSULATOR, PIN 15 kV
	1		INSULATOR, SPOOL
	6		NUT, LOCK, 5/8"
	2		PIN, POLE TOP, FIBERGLASS
	3		WASHERS, SQUARE 2-1/2" X 2-1/2"



6° - 10° LINE ANGLE ABOVE 1/0 ACSR 6° - 24° LINE ANGLE THROUGH 1/0 ACSR

STANDARD CONFIGURATION, MEDIUM ANGLE CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

electric	cities of	georgia

REVISIONS <u>JULY, 2002</u> JANUARY, 2006

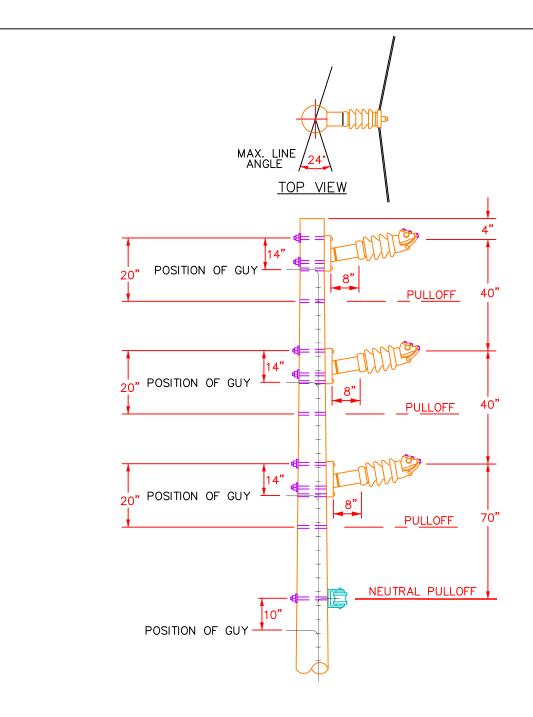
C2PS

ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, MEDIUM ANGLE CONSTRUCTION

C2PS

ITEM	QTY.	STOCK NO.	MATERIAL
	1		ARM, STEEL, 2 POST INSULATOR, 36"
	4		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	2		CLAMP, ANGLE, SIZE AS REQ'D.
	1		CLEVIS, SECONDARY
	2		INSULATOR, HORIZONTAL, POST CLAMP TYPE
	1		INSULATOR, PIN 15 kV
	1		INSULATOR, SPOOL
	4		NUT, LOCK, 5/8"
	1		PIN, POLE TOP
	1		SCREW, LAG, 1/2" X 4"
	2		STUD, MOUNTING, F/POST INSULATOR
	4		WASHERS, SQUARE 2-1/2" X 2-1/2"



0° - 6° LINE ANGLE TIE TYPE 6° - 24° LINE ANGLE CLAMP TYPE USE ALL 4 GUY POSITIONS ON WIRE SIZES LARGER THAN 1/0 ACSR STANDARD CONFIGURATION, VERTICAL STRAIGHT LINE TO MEDIUM ANGLE CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

electric	cities	of georgia

REVISIONS	JULY,	2002	
JANUARY,	2006		

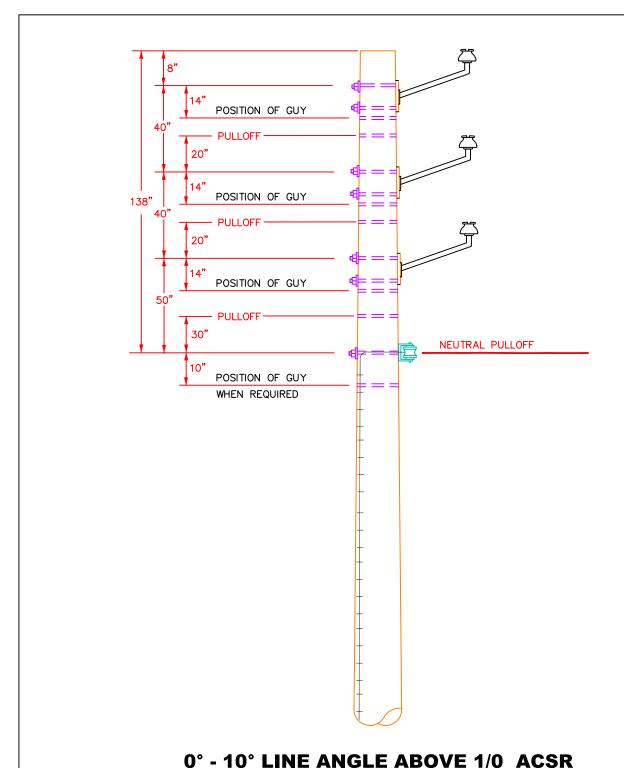
C₂V

ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, VERTICAL STRAIGHT LINE TO MEDIUM ANGLE CONSTRUCTION

C2V

ITEM	QUANTITY	STOCK No.	MATERIAL	
	7		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.	
	3	BRACKET, 1 POST INSULATOR 8"		
	3	CLAMP, ANGLE, SIZE AS REQ'D.		
	1		CLEVIS, SECONDARY	
	3		INSULATOR, HORIZONTAL, POST	
	1		INSULATOR, SPOOL	
	7		NUT, LOCK, 5/8"	
	3		STUD, MOUNTING, F/POST INSULATOR	
	7		WASHERS, SQUARE 2-1/2" X 2-1/2"	



0° - 20° LINE ANGLE ABOVE 1/0 ACSR 0° - 20° LINE ANGLE THROUGH 1/0 ACSR STANDARD CONFIGURATION, STRAIGHT LINE TO MEDIUM ANGLE CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

6			
	electric	cities c	f georgia

REVISIONS JULY, 2002

C2VF

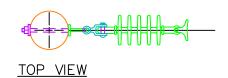
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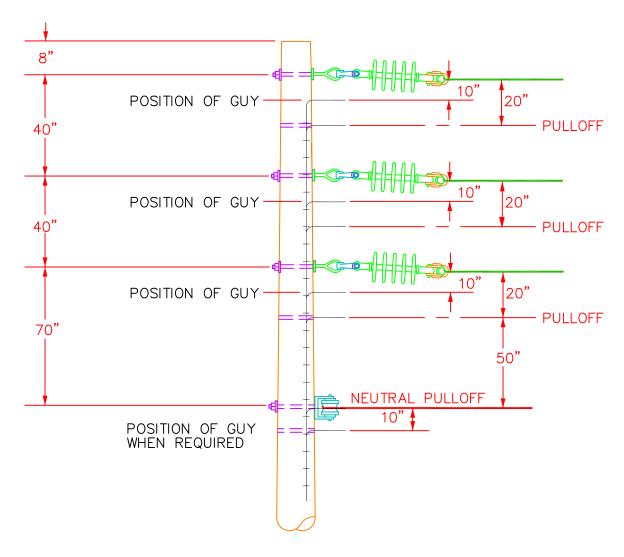
ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, STRAIGHT LINE TO MEDIUM ANGLE CONSTRUCTION

C2VF

ITEM	QUANTITY	STOCK NO.	MATERIAL
	7		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	3		BRACKET, FIBERGLASS, 1 PIN INSULATOR
	1		CLEVIS, SECONDARY
	3		INSULATOR, PIN 15 kV
	1		INSULATOR, SPOOL
	7		NUT, LOCK, 5/8"
	7		WASHERS, SQUARE 2-1/2" X 2-1/2"





24° - 60° LINE ANGLE USE ALL 4 GUY POSITIONS ON WIRE SIZES LARGER THAN 1/0 ACSR STANDARD CONFIGURATION, VERTICAL SUSPENSION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

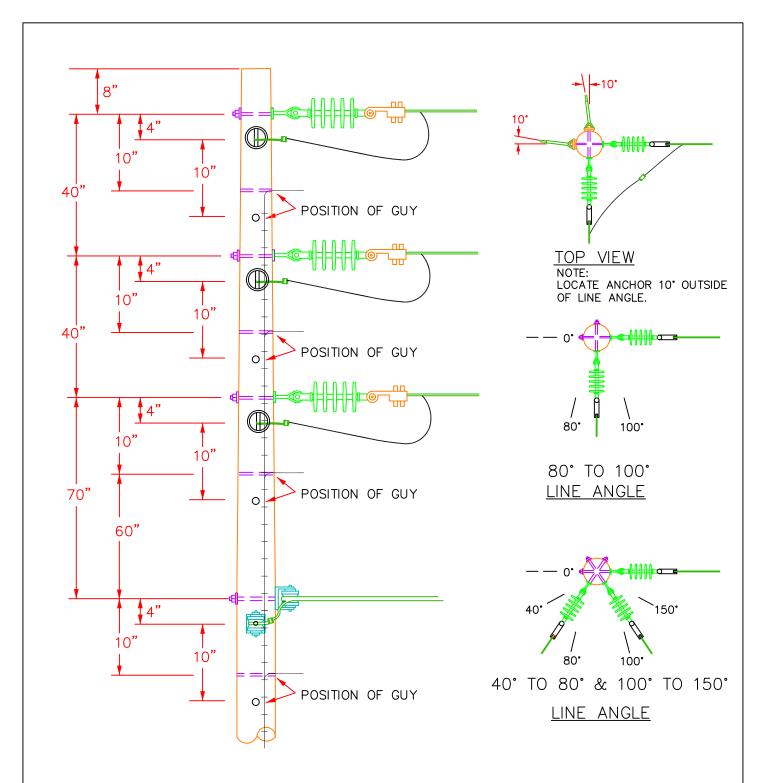
electric	cities (of georgia

REVISIONS	JULY,	2002	
JANUARY,	2007		

ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, VERTICAL SUSPENSION

ITEM	QUANTITY	STOCK NO.	MATERIAL
	3		BOLT, EYE, 5/8", LENGTH AS REQ'D.
	1		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	3		CLAMP, ANGLE, SIZE AS REQ'D.
	1		CLEVIS, SECONDARY
	1		INSULATOR, SPOOL
	3		INSULATOR, SUSPENSION
	4		NUT, LOCK, 5/8"
	3		SHACKLE, ANCHOR
	7		WASHERS, SQUARE 2-1/2" X 2-1/2"



STANDARD CONFIGURATION, VERTICAL CONSTRUCTION, DOUBLE DEADEND ANGLE

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

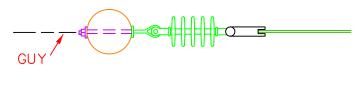
electric	cities	of georgia

REVISIONS <u>JULY, 2002</u> JANUARY, 2007

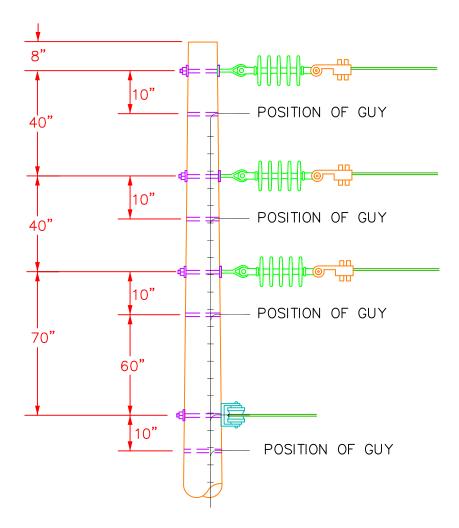
ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, VERTICAL CONSTRUCTION, DOUBLE DEADEND ANGLE

ITEM	QUANTITY	STOCK NO.	MATERIAL
	6		BOLT, EYE, 5/8", LENGTH AS REQ'D.
	2		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	2		CLEVIS, SECONDARY
	6		DEADEND ASSEMBLY, PRIMARY
	2		DEADEND NEUTRAL ASSEMBLY
	2		INSULATOR, SPOOL
	6		INSULATOR, SUSPENSION
	8		NUT, LOCK, 5/8"
	14		WASHERS, SQUARE 2-1/2" X 2-1/2"



TOP VIEW



USE ALL 4 GUY POSITIONS ON WIRE SIZES LARGER THAN 1/0 ACSR

VERTICAL CONSTRUCTION, DEADEND

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

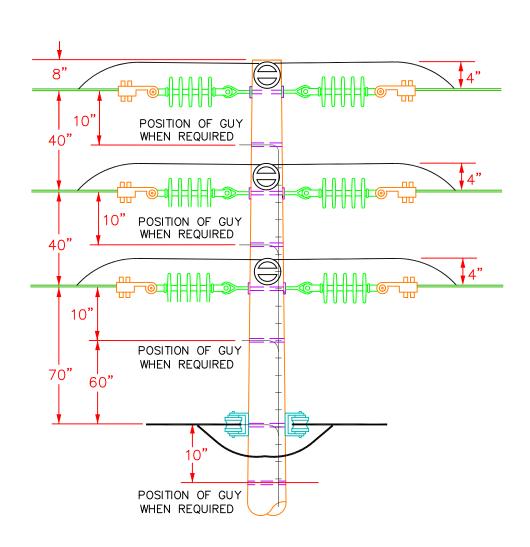
electric	cities	of georgia

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ELECTRIC CITIES OF GEORGIA

VERTICAL CONSTRUCTION, DEADEND

	<u> </u>				
ITEM	QUANTITY	STOCK NO.	MATERIAL		
	3		BOLT, EYE, 5/8", LENGTH AS REQ'D.		
	1		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.		
	1		CLEVIS, SECONDARY		
	3		DEADEND ASSEMBLY, PRIMARY		
	1		DEADEND NEUTRAL ASSEMBLY		
	1		INSULATOR, SPOOL		
	3		INSULATOR, SUSPENSION		
	4		NUT, LOCK, 5/8"		
	7		WASHERS, SQUARE 2-1/2" X 2-1/2"		



VERTICAL CONSTRUCTION, DOUBLE DEADEND

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

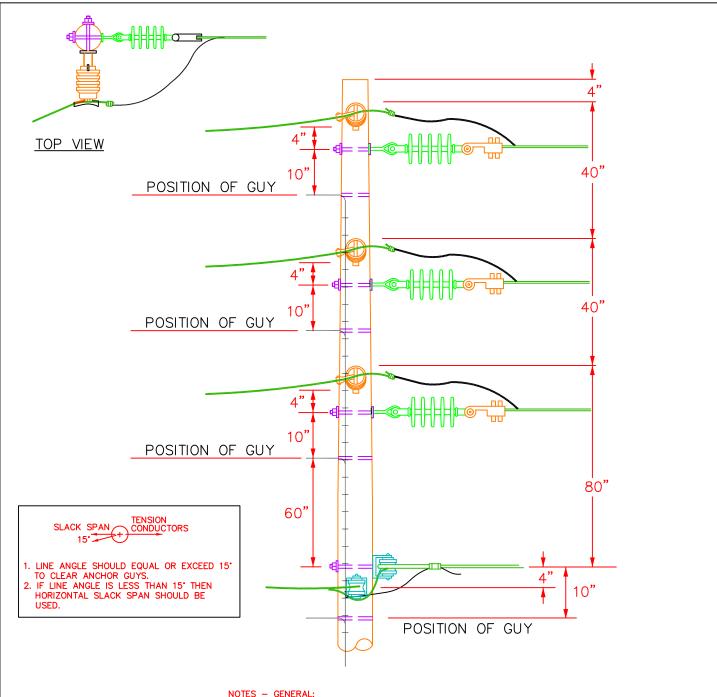
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ELECTRIC CITIES OF GEORGIA

VERTICAL CONSTRUCTION, DOUBLE DEADEND

ГЕМ	QUANTITY	STOCK No.	MATERIAL
	3		BOLT, D.A., 5/8", LENGTH AS REQ'D.
	3		BOLT, EYE, 5/8", LENGTH AS REQ'D.
	1		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	2		CLEVIS, SECONDARY
	6		DEADEND ASSEMBLY, PRIMARY
	2		DEADEND NEUTRAL ASSEMBLY
	3		EYENUT, 5/8"
	3		INSULATOR, PIN 15 kV
	2		INSULATOR, SPOOL
	6		INSULATOR, SUSPENSION
	10		NUT, LOCK, 5/8"
	3		PIN, JUMPER, LEAD HEAD
	12		WASHERS, SQUARE 2-1/2" X 2-1/2"



- NOTES GENERAL:

 1. SLACK SPAN LENGTH SHOULD BE AS SHORT AS POSSIBLE.

 2. SLACK SPAN CONDUCTOR SHOULD BE HAND TENSIONED TO AVOID PULLING OVER THE MAIN LINE POLE.

 3. DO NOT USE HORIZONTAL CONSTRUCTION ON ONE POLE AND VERTICAL CONSTRUCTION ON THE OTHER.

 4. THREE PHASE LINE CUTOUTS SHOULD NOT BE INSTALLED ON THEFEE POLIFS.
- ON THESE POLES.

SLACK SPAN, VERTICAL CONSTRUCTION

MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992



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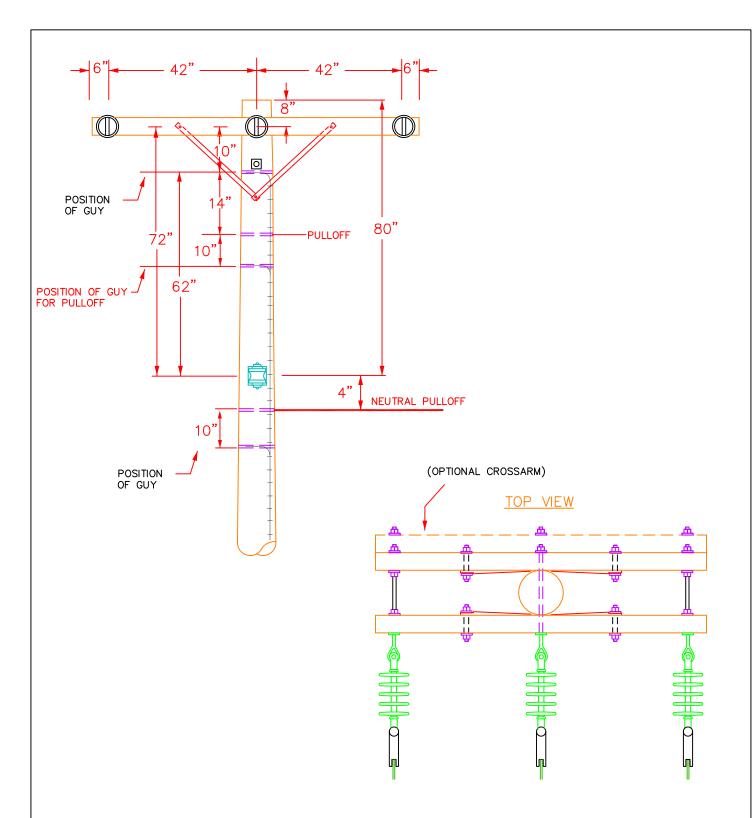
C6SS

ELECTRIC CITIES OF GEORGIA

SLACK SPAN, VERTICAL CONSTRUCTION

C6SS

	6033				
ITEM	QUANTITY	STOCK NO.	MATERIAL		
	3		BOLT, EYE, 5/8", LENGTH AS REQ'D.		
	8		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.		
	3		CLAMP, DEADEND, SLACK SPAN, SIZE AS REQ'D.		
	2		CLEVIS, SECONDARY		
	3		DEADEND ASSEMBLY, PRIMARY		
	2		DEADEND NEUTRAL ASSEMBLY		
	2		INSULATOR, SPOOL		
	6		INSULATOR, SUSPENSION		
	3		INSULATOR, VERTICAL, POST CLAMP TOP		
	11		NUT, LOCK, 5/8"		
	11		WASHERS, SQUARE 2-1/2" X 2-1/2"		



CROSSARM CONSTRUCTION, DEADEND ON ARMS

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

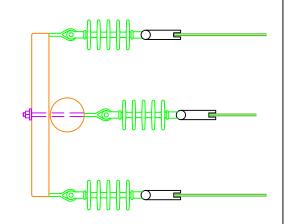
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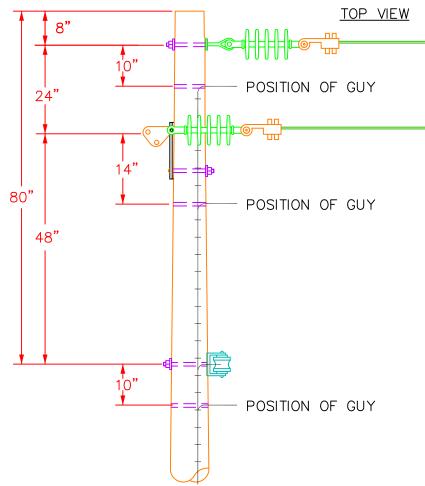
REVISIONS <u>JULY, 2002</u> JANUARY, 2007

ELECTRIC CITIES OF GEORGIA

CROSSARM CONSTRUCTION, DEADEND ON ARMS

TEM	QUANTITY	STOCK No.	MATERIAL
	4		BOLT, CARRIAGE 3/8", LENGTH AS REQ'D.
	3		BOLT, D.A., 5/8", LENGTH AS REQ'D.
	1		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	4		BRACE, CROSSARM, 28"
	1		CLEVIS, SECONDARY
	2		CROSSARM, WOOD, 8'
	3		DEADEND ASSEMBLY, PRIMARY
	1		DEADEND NEUTRAL ASSEMBLY
	3		EYENUT, 5/8"
	1		INSULATOR, SPOOL
	3		INSULATOR, SUSPENSION
	7		NUT, LOCK, 5/8"
	2		SCREW, LAG, 1/2" X 4"
	4		WASHER, 3/8", FLAT
	11		WASHERS, SQUARE 2-1/2" X 2-1/2"





USE BOTTOM GUY ON WIRE SIZES LARGER THAN 1/0 ACSR NOTE: NOT RECOMMENDED FOR THREE PHASE PULLOFF

STANDARD CONFIGURATION, HORIZONTAL DEADEND

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

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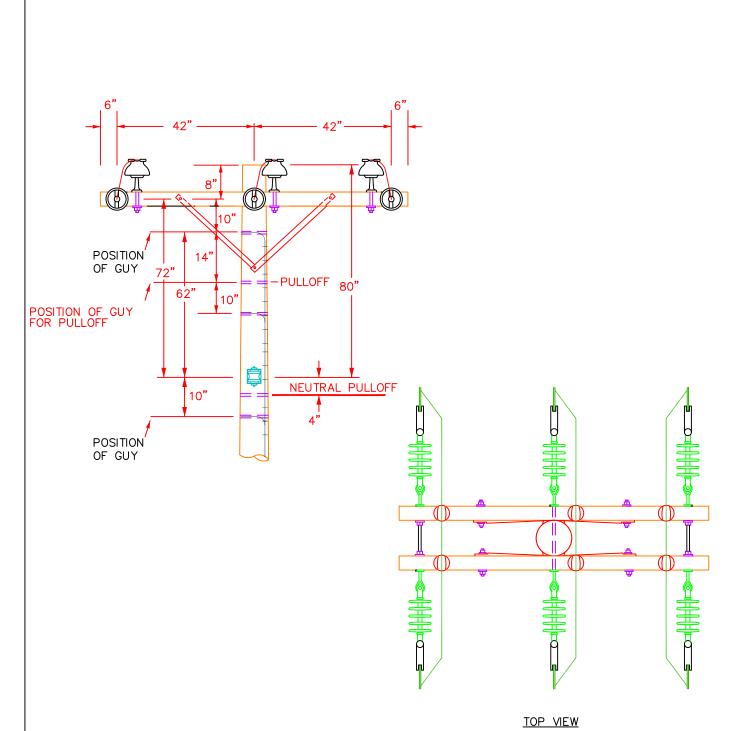
C7S

ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, HORIZONTAL DEADEND

C7S

	<u> </u>					
ITEM	QUANTITY	STOCK No.	MATERIAL			
	1		BOLT, EYE, 5/8", LENGTH AS REQ'D.			
	3		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.			
	1		CLEVIS, SECONDARY			
	1		CROSSARM, STEEL, 60" OR 78"			
	3		DEADEND ASSEMBLY, PRIMARY			
	1		DEADEND NEUTRAL ASSEMBLY			
	1		INSULATOR, SPOOL			
	3		INSULATOR, SUSPENSION			
	4		NUT, LOCK, 5/8"			
	5		WASHERS, SQUARE 2-1/2" X 2-1/2"			



0° - 24° LINE ANGLE

CROSSARM CONSTRUCTION, HORIZONTAL DOUBLE DEADEND

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

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JANUARY, 2007

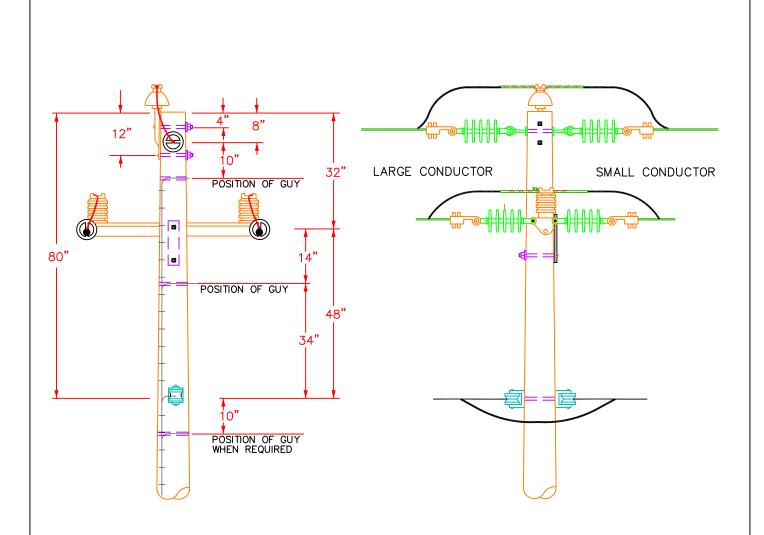
C8

DATE: OCTOBER, 1992

ELECTRIC CITIES OF GEORGIA

CROSSARM CONSTRUCTION, HORIZONTAL DOUBLE DEADEND

ITEM	QUANTITY	STOCK No.	MATERIAL
	4		BOLT, CARRIAGE 3/8", LENGTH AS REQ'D.
	3		BOLT, D.A., 5/8", LENGTH AS REQ'D.
	1		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	4		BRACE, CROSSARM, 28"
	2		CLEVIS, SECONDARY
	2		CROSSARM, WOOD, 8'
	6		DEADEND ASSEMBLY, PRIMARY
	2		DEADEND NEUTRAL ASSEMBLY
	6		EYENUT, 5/8"
	6		INSULATOR, PIN 15 kV
	2		INSULATOR, SPOOL
	6		INSULATOR, SUSPENSION
	13		NUT, LOCK, 5/8"
	6		PIN, STEEL, CROSSARM, 5" W/1" HEAD
	2		SCREW, LAG, 1/2" X 4"
	4		WASHER, 3/8", FLAT
	16		WASHERS, SQUARE 2-1/2" X 2-1/2"



NOTE:

- 1. LEAVE DOWN GUYS OFF IF WIRE SIZE REMAINS THE SAME.
- 2. NOT RECOMMENDED FOR THREE PHASE PULLOFFS.

0° - 24° LINE ANGLE

STANDARD CONFIGURATION, HORIZONTAL DOUBLE DEADEND WIRE SIZE CHANGE

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

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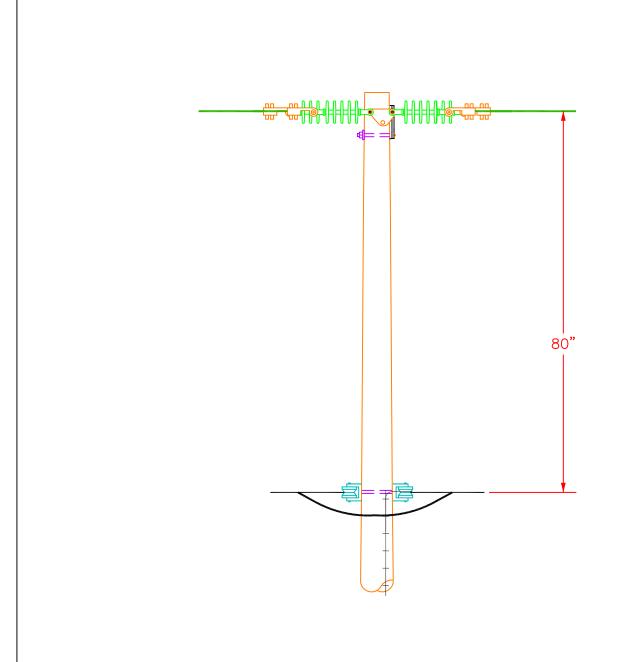
DATE: OCTOBER, 1992

ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, HORIZONTAL DOUBLE DEADEND WIRE SIZE CHANGE

C8S

ITEM	QUANTITY	STOCK No.	MATERIAL
	1		BOLT, EYE, 5/8", LENGTH AS REQ'D.
	5		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	2		CLEVIS, SECONDARY
	1		CROSSARM, STEEL, 60" OR 78"
	6		DEADEND ASSEMBLY, PRIMARY
	2		DEADEND NEUTRAL ASSEMBLY
	1		EYENUT, 5/8"
	2		INSULATOR, HORIZONTAL POST TIE TOP
	1		INSULATOR, PIN 15 kV
	2		INSULATOR, SPOOL
	6		INSULATOR, SUSPENSION
	6		NUT, LOCK, 5/8"
	1		PIN, POLE TOP
	2		STUD, MOUNTING, F/POST INSULATOR
	6		WASHERS, SQUARE 2-1/2" X 2-1/2"



HORIZONTAL DOUBLE DEADEND

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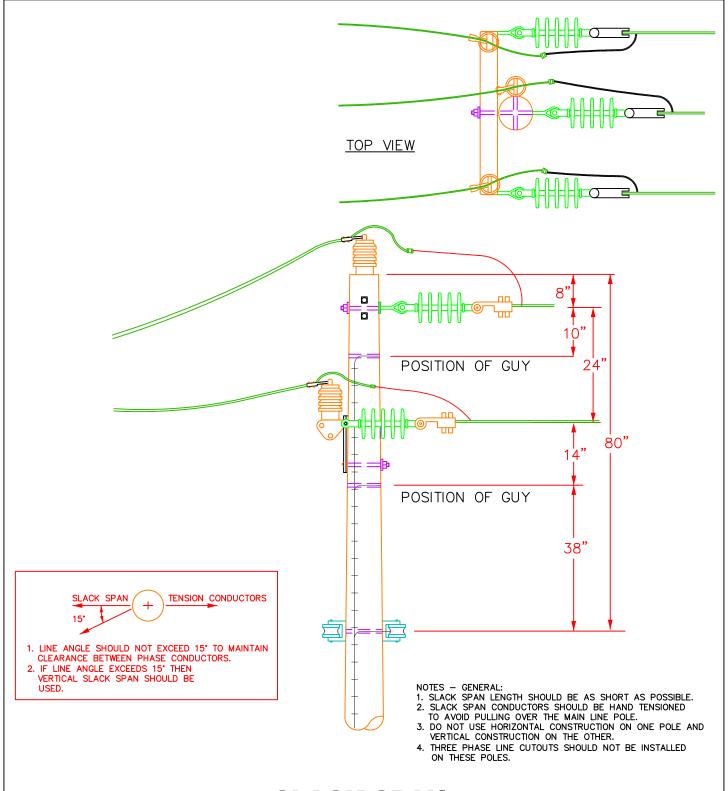
C8SH

ELECTRIC CITIES OF GEORGIA

HORIZONTAL DOUBLE DEADEND

C8SH

ITEM	QUANTITY	STOCK NO.	MATERIAL
	1		BOLT, EYE, 5/8", LENGTH AS REQ'D.
	2		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	2		CLEVIS, SECONDARY
	1		CROSSARM, STEEL, 60" OR 78"
	6		DEADEND, ASSEMBLY, PRIMARY
	2		DEADEND, NEUTRAL ASSEMBLY
	1		EYENUT, 5/8"
	2		INSULATOR, SPOOL
	6		INSULATOR, SUSPENSION
	3		NUT, LOCK, 5/8"
	2		WASHERS, SQUARE 2-1/2" X 2-1/2"



SLACK SPAN, HORIZONTAL DOUBLE DEADEND CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992



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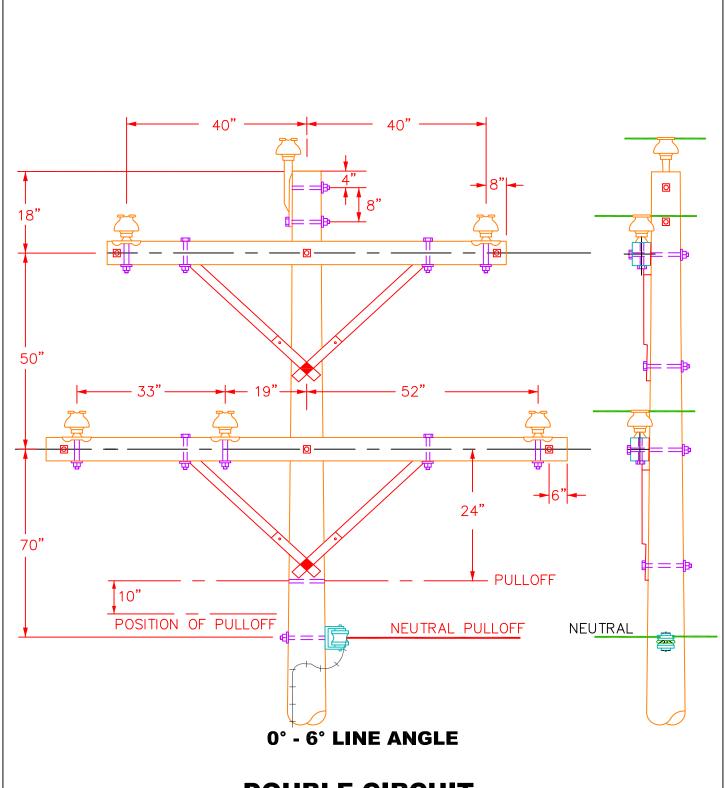
C8SS

ELECTRIC CITIES OF GEORGIA

SLACK SPAN, HORIZONTAL DOUBLE DEADEND CONSTRUCTION

C8SS

ITEM	QUANTITY	STOCK NO.	MATERIAL
	1		BOLT, EYE, 5/8", LENGTH AS REQ'D.
	5		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	3		CLAMP, DEADEND, SLACK SPAN, SIZE AS REQ'D.
	2		CLEVIS, SECONDARY
	1		CROSSARM, STEEL, 60" OR 78"
	2		DEADEND NEUTRAL ASSEMBLY
	2		INSULATOR, SPOOL
	3		INSULATOR, SUSPENSION
	3		INSULATOR, VERTICAL, POST CLAMP TOP
	6		NUT, LOCK, 5/8"
	1		PIN, POLE TOP, VERTICAL FOR POST INSULATOR
	2		STUD, MOUNTING, F/POST INSULATOR
	6		WASHERS, SQUARE 2-1/2" X 2-1/2"



DOUBLE CIRCUIT, STRAIGHT LINE CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

electric	cities	of georgia

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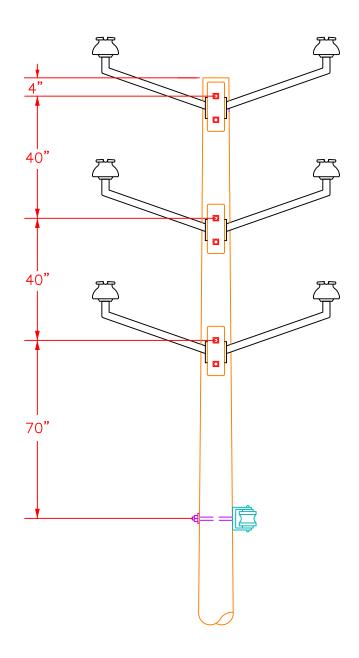
DC-C1

ELECTRIC CITIES OF GEORGIA

DOUBLE CIRCUIT, STRAIGHT LINE CONSTRUCTION

DC-C1

ITEM	QUANTITY	STOCK NO.	MATERIAL	
	4		BOLT, MACHINE, 1/2" X 6"	
	4		BOLT, MACHINE, 5/8" X 6"	
	7		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.	
	4		BRACE, CROSSARM, WOOD	
	1		CLEVIS, SECONDARY	
	1		CROSSARM, WOOD, 10'	
	1		CROSSARM, WOOD, 8'	
	6		INSULATOR, PIN 15 kV	
	1		INSULATOR, SPOOL	
	4		NUT, LOCK, 1/2"	
	11		NUT, LOCK, 5/8"	
	1		PIN, POLE TOP	
	5		PIN, STEEL, CROSSARM, SADDLE TYPE	
	4		WASHER, 1/2", FLAT	
	17		WASHER, SQUARE 2-1/2" X 2-1/2"	



0° - 6° LINE ANGLE

ALTERNATE CONFIGURATION, NARROW PROFILE, DOUBLE CIRCUIT

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

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DC-C1F

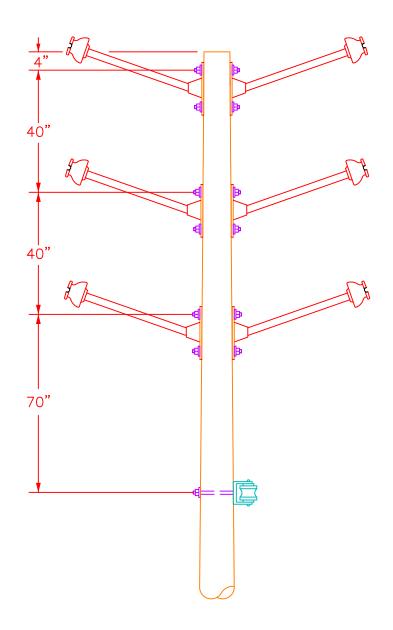
DATE: JULY, 2002

ELECTRIC CITIES OF GEORGIA

ALTERNATE CONFIGURATION, NARROW PROFILE, DOUBLE CIRCUIT

DC-C1F

ITEM	QUANTITY	STOCK NO.	MATERIAL			
	7		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.			
	3		BRACKET, FIBERGLASS, 2 PIN INSULATOR			
	1		CLEVIS, SECONDARY			
	6		INSULATOR, PIN 15 KV			
	1		INSULATOR, SPOOL			
	7		NUT, LOCK, 5/8"			
	7		WASHERS, SQUARE 2-1/2" X 2-1/2"			



0° - 6° LINE ANGLE

ALTERNATE CONFIGURATION, NARROW PROFILE, DOUBLE CIRCUIT

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

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	electric	cities (of georgia

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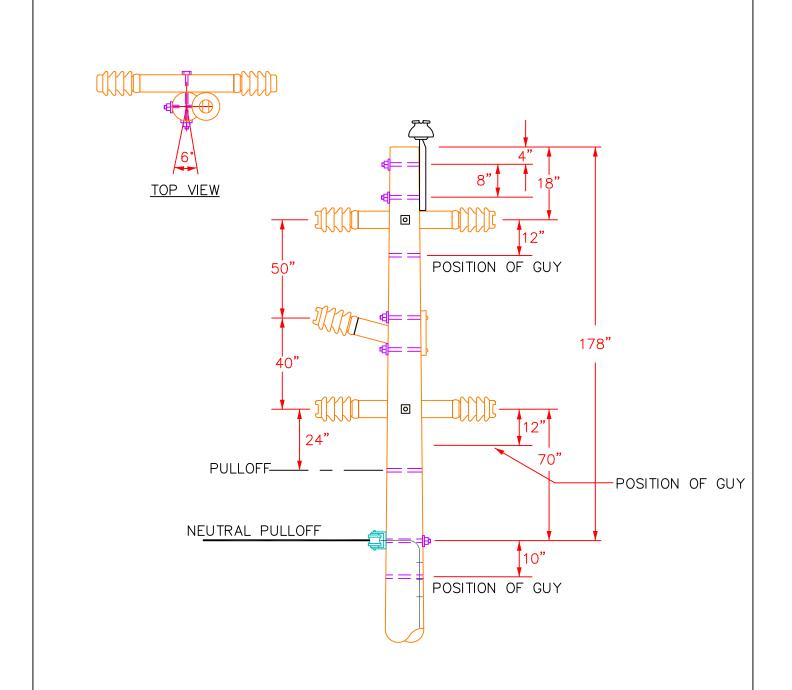
DATE: JULY, 2002

ELECTRIC CITIES OF GEORGIA

ALTERNATE CONFIGURATION, NARROW PROFILE, DOUBLE CIRCUIT

DC-C1F1

	T		
ITEM	QUANTITY	STOCK NO.	MATERIAL
	7		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	6		BRACKET, FIBERGLASS, 1 PIN INSULATOR
	1		CLEVIS, SECONDARY
	6		INSULATOR, PIN 15 KV
	1		INSULATOR, SPOOL
	7		NUT, LOCK, 5/8"
	1		WASHERS, SQUARE 2-1/2" X 2-1/2"



0° - 6° LINE ANGLE PULLOFF ONLY RECOMMENDED FOR BOTTOM CIRCUIT

DOUBLE CIRCUIT CONSTRUCTION, STRAIGHT LINE

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

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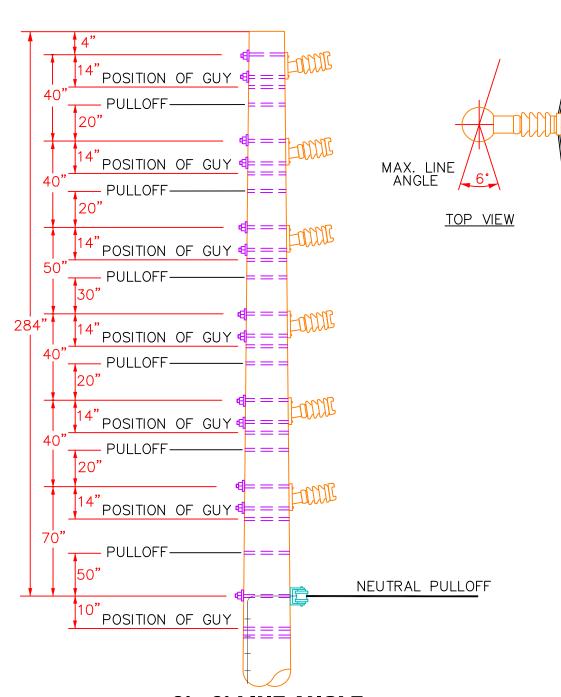
DATE: OCTOBER, 1992

ELECTRIC CITIES OF GEORGIA

DOUBLE CIRCUIT CONSTRUCTION, STRAIGHT LINE

DC-C1PS

ITEM	QUANTITY	STOCK	MATERIAL
		NO.	
	2		ARM, STEEL, 2 POST INSULATOR, 36"
	7		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	1		BRACKET, 1 POST INSULATOR
	1		CLEVIS, SECONDARY
	5		INSULATOR, HORIZONTAL POST TIE TOP
	1		INSULATOR, PIN 15 KV
	1		INSULATOR, SPOOL
	7		NUT, LOCK, 5/8"
	1		PIN, POLE TOP
	5		STUD, MOUNTING, F/POST INSULATOR
	7		WASHER, SQUARE 2-1/2" X 2-1/2"



0° - 6° LINE ANGLE

STANDARD CONFIGURATION, DOUBLE CIRCUIT STRAIGHT LINE VERTICAL CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

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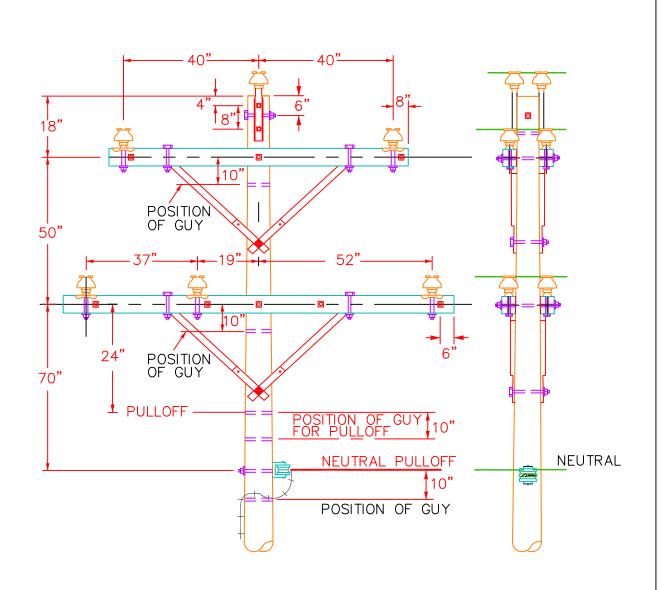
DC-C1V

ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, DOUBLE CIRCUIT STRAIGHT LINE VERTICAL CONSTRUCTION

DC-C1V

ITEM	QUANTITY	STOCK No.	MATERIAL
	13		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	6		BRACKET, 1 POST INSULATOR
	1		CLEVIS, SECONDARY
	6		INSULATOR, HORIZONTAL POST TIE TOP
	1		INSULATOR, SPOOL
	13		NUT, LOCK, 5/8"
	6		STUD, MOUNTING, F/POST INSULATOR
	13		WASHER, SQUARE 2-1/2" X 2-1/2"



0° - 10° LINE ANGLE ABOVE 1/0 ACSR 0° - 20° LINE ANGLE THROUGH 1/0 ACSR

DOUBLE CIRCUIT, CROSSARM CONSTRUCTION, DOUBLE ARM SUPPORT

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

REVISIONS <u>JULY, 2002</u>

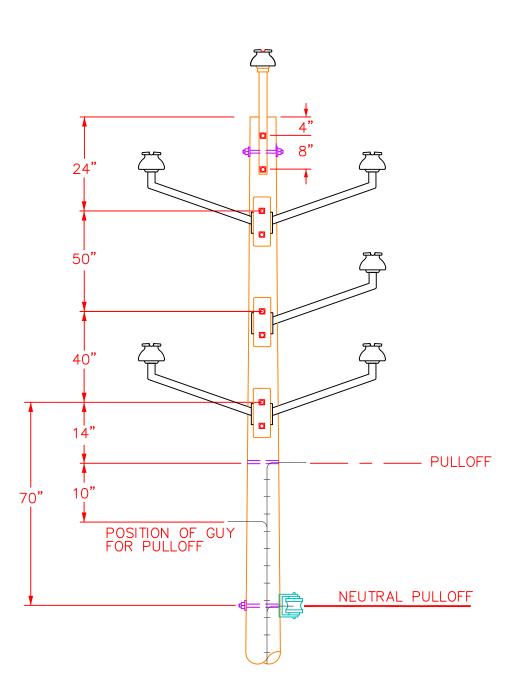
DC-C2

ELECTRIC CITIES OF GEORGIA

DOUBLE CIRCUIT, CROSSARM CONSTRUCTION, DOUBLE ARM SUPPORT

DC-C2

ITEM	QUANTITY	STOCK NO.	MATERIAL
	8		BOLT, D.A., 5/8", LENGTH AS REQ'D.
	8		BOLT, MACHINE, 1/2" X 6"
	6		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	8		BRACE, CROSSARM, WOOD
	1		CLEVIS, SECONDARY
	2		CROSSARM, WOOD, 10'
	2		CROSSARM, WOOD, 8'
	12		INSULATOR, PIN 15 KV
	1		INSULATOR, SPOOL
	8		NUT, LOCK, 1/2"
	22		NUT, LOCK, 5/8"
	2		PIN, POLE TOP
	10		PIN, STEEL, CROSSARM, SADDLE TYPE
	8		WASHER, 1/2", FLAT
	31		WASHER, SQUARE 2-1/2" X 2-1/2"



6° - 24° LINE ANGLE

DOUBLE CIRCUIT, MEDIUM ANGLE CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

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REVISIONS JULY, 2002

DC-C2F

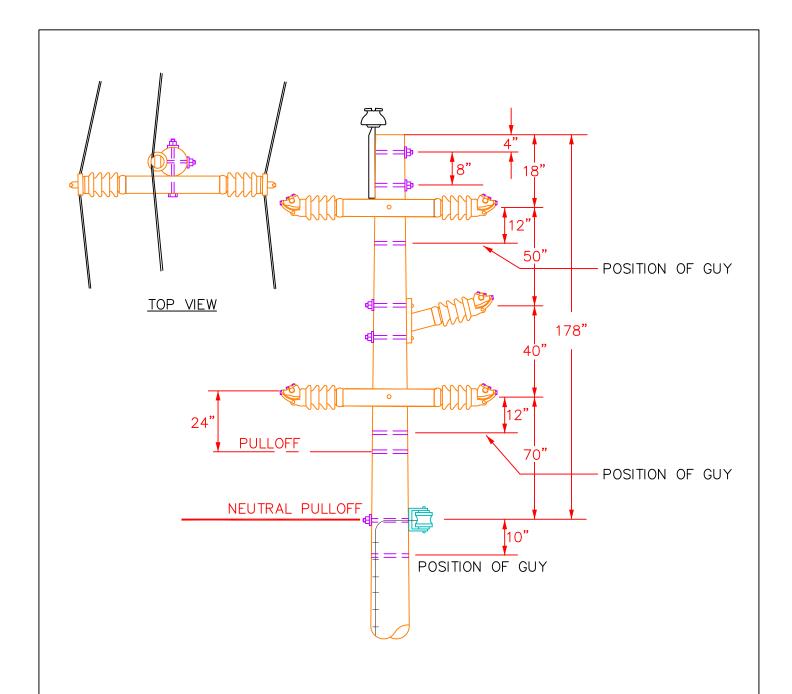
DATE: JULY, 2002

ELECTRIC CITIES OF GEORGIA

DOUBLE CIRCUIT, MEDIUM ANGLE CONSTRUCTION

DC-C2F

	DO-OZI					
ITEM	QUANTITY	STOCK NO.	MATERIAL			
	10		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.			
	1		BRACKET, FIBERGLASS, 1 PIN INSULATOR			
	2		BRACKET, FIBERGLASS, 2 PIN INSULATOR			
	1		CLEVIS, SECONDARY			
	6		INSULATOR, PIN 15 KV			
	1		INSULATOR SPOOL			
	1		PIN, POLE TOP, FIBERGLASS			
	11		WASHERS SQUARE 2-1/2" X 2-1/2"			
	10		NUTS LOCK 5/8"			



0° - 10° ANGLE ABOVE 1/0 ACSR 0° - 20° ANGLE THROUGH 1/0 ACSR NOTE: PULLOFF RECOMMENDED FOR BOTTOM CIRCUIT ONLY

DOUBLE CIRCUIT CONSTRUCTION, MEDIUM ANGLE CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

electric	cities c	f georgia

REVISIONS <u>JULY, 2002</u> JANUARY, 2006

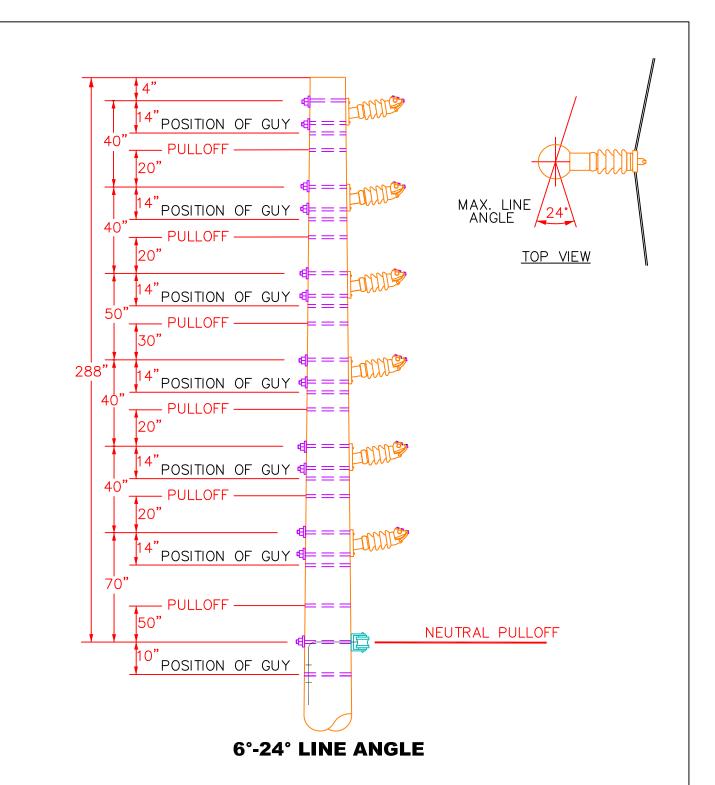
DC-C2PS

ELECTRIC CITIES OF GEORGIA

DOUBLE CIRCUIT CONSTRUCTION, MEDIUM ANGLE CONSTRUCTION

DC-C2PS

TEM	QUANTITY	STOCK No.	MATERIAL
	2		ARM, STEEL, 2 POST INSULATOR, 36"
	7		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	1		BRACKET, 1 POST INSULATOR
	2		BRACKET, STABILIZER
	5		CLAMP, ANGLE, SIZE AS REQ'D.
	1		CLEVIS, SECONDARY
	5		INSULATOR, HORIZONTAL, POST CLAMP TYPE
	1		INSULATOR, PIN 15 KV
	1		INSULATOR SPOOL
	7		NUT, LOCK, 5/8"
	1		PIN, POLE TOP
	2		SCREW, LAG, 1/2" X 4"
	5		STUD, MOUNTING, F/POST INSULATOR
	7		WASHER, SQUARE 2-1/2" X 2-1/2"



STANDARD CONFIGURATION, DOUBLE CIRCUIT MEDIUM ANGLE VERTICAL CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

electric	cities c	f georgia

REVISIONS	JULY,	2002	
JANUARY,	2006		

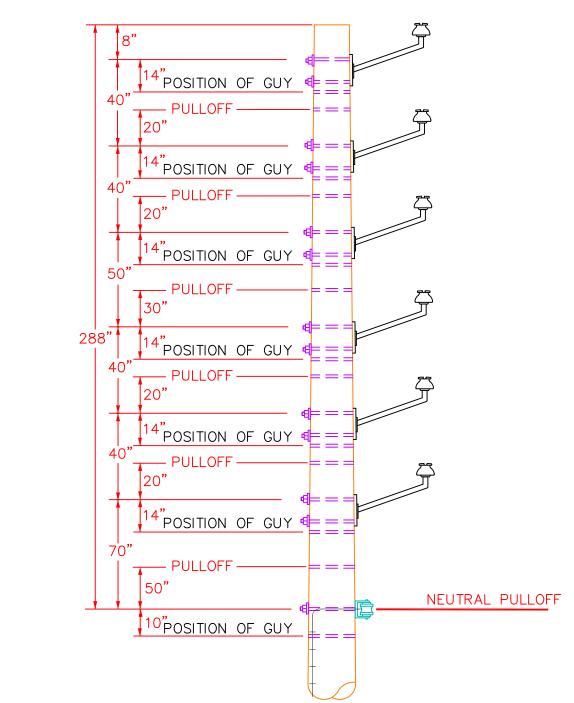
DC-C2V

ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, DOUBLE CIRCUIT MEDIUM ANGLE VERTICAL CONSTRUCTION

DC-C2V

ITEM	QUANTITY	STOCK	MATERIAL
11 E141	GOANTITI	NO.	WATERIAL
	13		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	6		BRACKET, 1 POST INSULATOR
	6		CLAMP, ANGLE, SIZE AS REQ'D.
	1		CLEVIS, SECONDARY
	6		INSULATOR, HORIZONTAL, POST CLAMP TYPE
	1		INSULATOR SPOOL
	13		NUT, LOCK, 5/8"
	6		STUD, MOUNTING, F/POST INSULATOR
	13		WASHER, SQUARE 2-1/2" X 2-1/2"



0° - 10° LINE ANGLE ABOVE 1/0 ACSR 0° - 20° LINE ANGLE THROUGH 1/0 ACSR

STANDARD CONFIGURATION, STRAIGHT LINE TO MEDIUM ANGLE VERTICAL CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE:

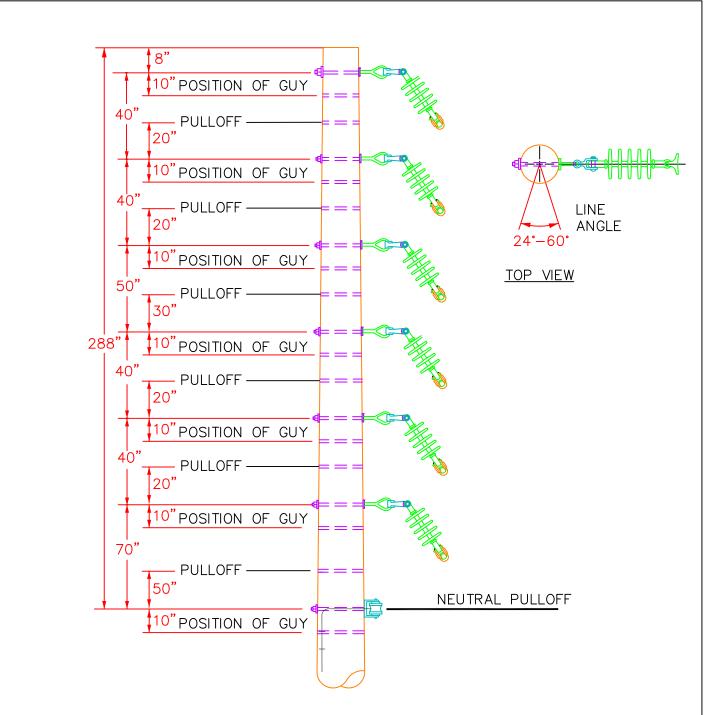
electric cities of georgia	REVISIONS JULY, 2002	DC-C2VF
OCTOBER, 1992		DO-02 41

ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, STRAIGHT LINE TO MEDIUM ANGLE VERTICAL CONSTRUCTION

DC-C2VF

ITEM	QUANTITY	STOCK NO.	MATERIAL
	13		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	6		BRACKET, FIBERGLASS, 1 PIN INSULATOR
	1		CLEVIS, SECONDARY
	6		INSULATOR, PIN 15 KV
	1		INSULATOR SPOOL
	13		NUT, LOCK, 5/8"
	13		WASHER, SQUARE 2-1/2" X 2-1/2"



24° - 60° LINE ANGLE

STANDARD CONFIGURATION, DOUBLE CIRCUIT, VERTICAL SUSPENSION INSULATOR

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

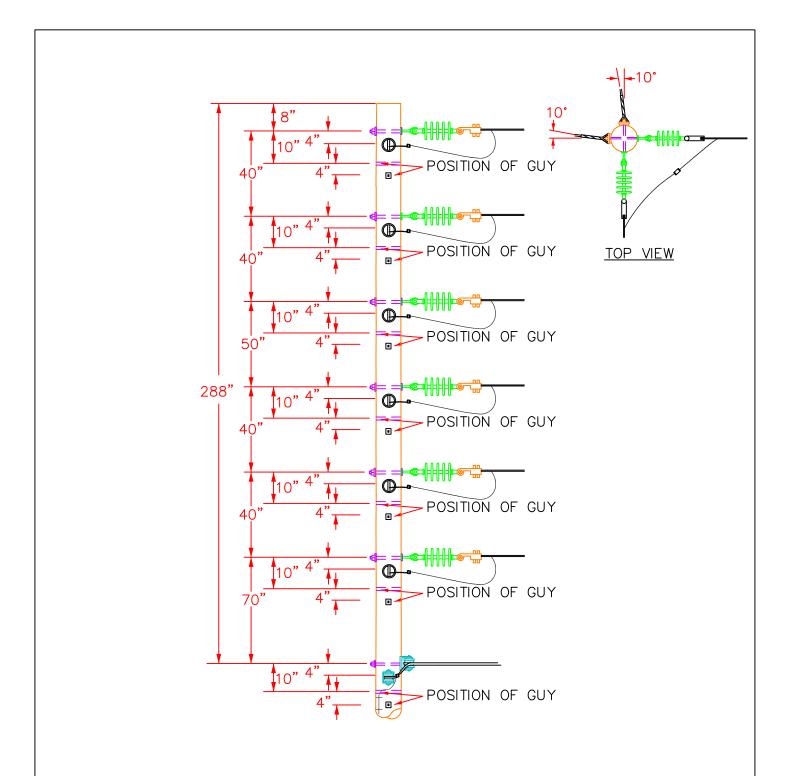
electric	cities	of georgia

REVISIONS <u>JULY, 2002</u> JANUARY, 2007

ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, DOUBLE CIRCUIT, VERTICAL SUSPENSION INSULATOR

ITEM	QUANTITY	STOCK NO.	MATERIAL
	6		BOLT, EYE, 5/8", LENGTH AS REQ'D.
	1		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	6		CLAMP, ANGLE, SUSPENSION, SIZE AS REQ'D.
	1		CLEVIS, SECONDARY
	1		INSULATOR SPOOL
	6		INSULATOR, SUSPENSION
	7		NUT, LOCK 5/8"
	6		SHACKLE, ANCHOR
	13		WASHER, SQUARE 2-1/2" X 2-1/2"



STANDARD CONFIGURATION, DOUBLE CIRCUIT, VERTICAL DOUBLE DEADEND

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

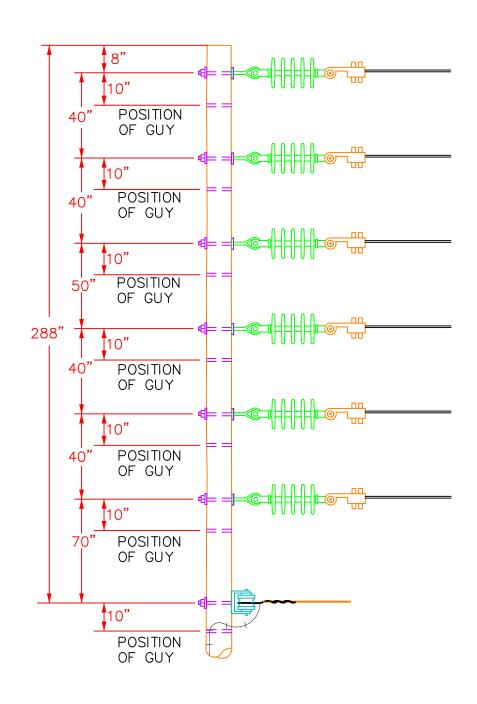
electric	cities c	f georgia

REVISIONS <u>JULY</u>, 2002 <u>JANUARY</u>, 2007

ELECTRIC CITIES OF GEORGIA

STANDARD CONFIGURATION, DOUBLE CIRCUIT, VERTICAL DOUBLE DEADEND

ITEM	QUANTITY	STOCK NO.	MATERIAL
	12		BOLT, EYE, 5/8", LENGTH AS REQ'D.
	2		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	2		CLEVIS, SECONDARY
	12		DEADEND ASSEMBLY, PRIMARY
	2		DEADEND NEUTRAL ASSEMBLY
	2		INSULATOR SPOOL
	12		INSULATOR, SUSPENSION
	14		NUT, LOCK 5/8"
	26		WASHER, SQUARE 2-1/2" X 2-1/2"



DEADEND, DOUBLE CIRCUIT VERTICAL CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

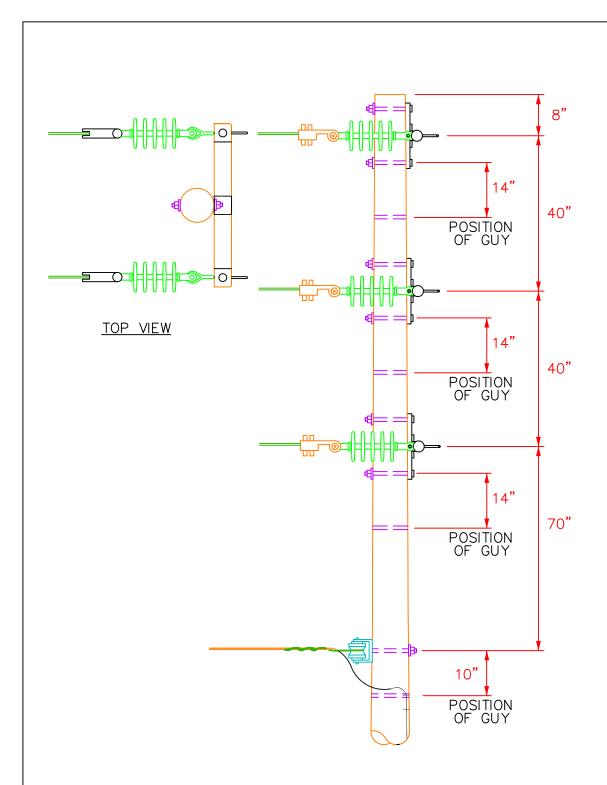
electric	cities of	georgia

REVISIONS <u>JULY, 2002</u> JANUARY, 2007

ELECTRIC CITIES OF GEORGIA

DEADEND, DOUBLE CIRCUIT VERTICAL CONSTRUCTION

STOCK NO. STOCK NO. BOLT, EYE, 5/8", LENGTH AS REQ'D. 1	B0 -03					
1 BOLT, MACHINE, 5/8", LENGTH AS REQ'D. 1 CLEVIS, SECONDARY 6 DEADEND ASSEMBLY, PRIMARY 1 INSULATOR SPOOL 6 INSULATOR, SUSPENSION 7 NUT, LOCK 5/8"	QTY.		MATERIAL			
1 CLEVIS, SECONDARY 6 DEADEND ASSEMBLY, PRIMARY 1 INSULATOR SPOOL 6 INSULATOR, SUSPENSION 7 NUT, LOCK 5/8"	6		BOLT, EYE, 5/8", LENGTH AS REQ'D.			
6 DEADEND ASSEMBLY, PRIMARY 1 INSULATOR SPOOL 6 INSULATOR, SUSPENSION 7 NUT, LOCK 5/8"	1		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.			
1 INSULATOR SPOOL 6 INSULATOR, SUSPENSION 7 NUT, LOCK 5/8"	1		CLEVIS, SECONDARY			
6 INSULATOR, SUSPENSION 7 NUT, LOCK 5/8"	6		DEADEND ASSEMBLY, PRIMARY			
7 NUT, LOCK 5/8"	1		INSULATOR SPOOL			
	6		INSULATOR, SUSPENSION			
13 WASHER, SQUARE 2-1/2" X 2-1/2"	7		NUT, LOCK 5/8"			
	13		WASHER, SQUARE 2-1/2" X 2-1/2"			



ALTERNATE CONFIGURATION, NARROW PROFILE, DOUBLE CIRCUIT, DEADEND CONSTRUCTION

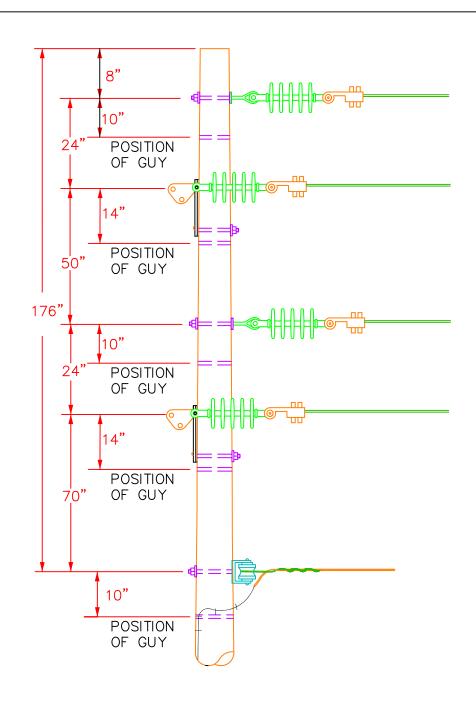
NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

electric	cities c	f georgia

REVISIONS <u>JULY, 2002</u> JANUARY, 2007

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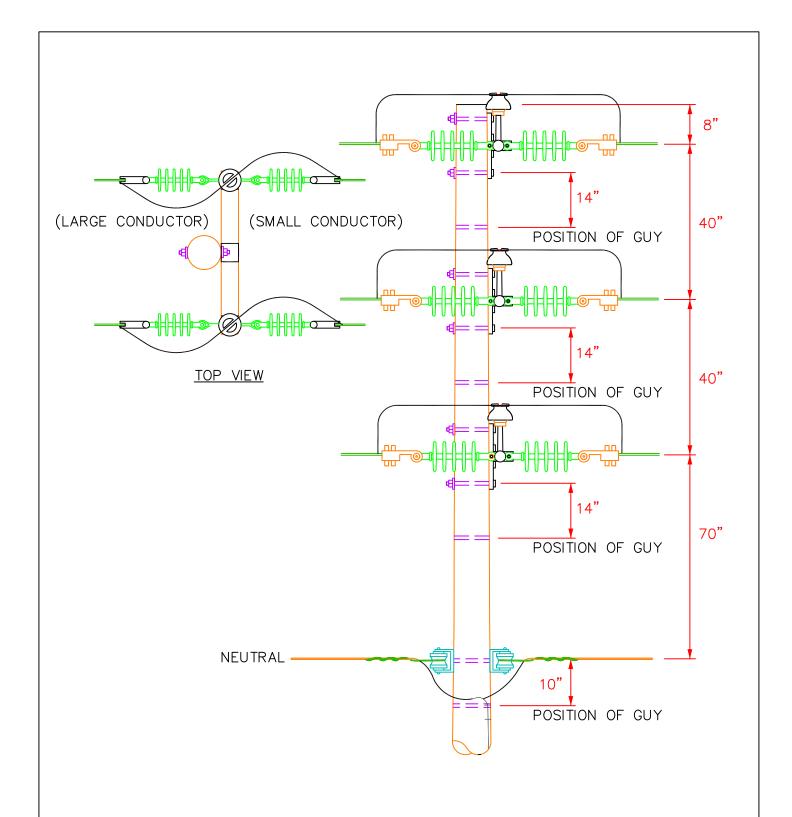
HORIZONTAL DEADEND DOUBLE CIRCUIT CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

electric	cities of	georgia

REVISIONS <u>JULY, 2002</u> JANUARY, 2007

DC-C7S



NARROW PROFILE, DOUBLE CIRCUIT DOUBLE DEADEND CONSTRUCTION

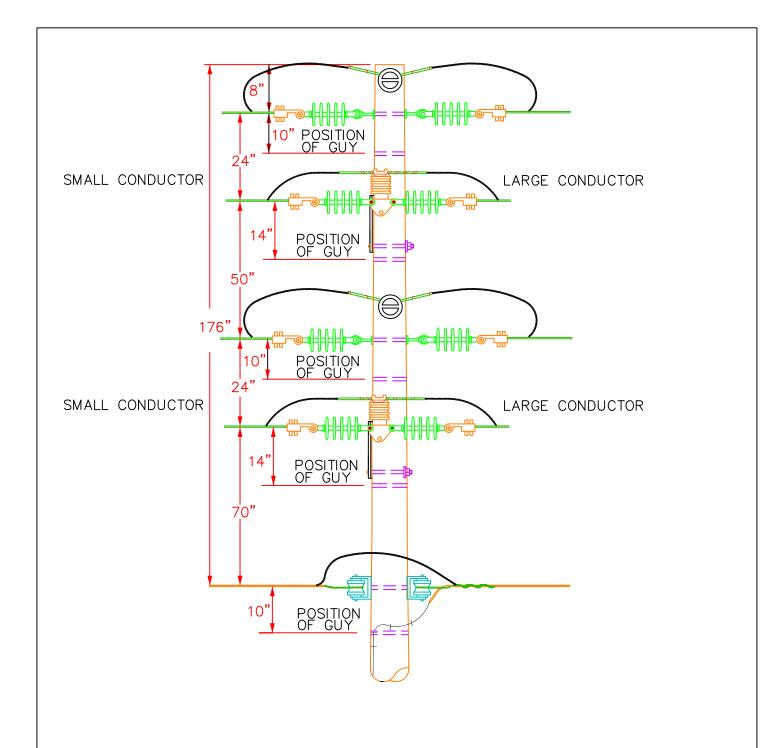
NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

electric	cities of	georgia

REVISIONS <u>JULY, 2002</u> JANUARY, 2007

DC-C8F



HORIZONTAL DOUBLE DEADEND DOUBLE CIRCUIT CONSTRUCTION

NOTE: MINIMUM DISTANCE FROM LOWEST PRIMARY TO NEUTRAL POSITION IS 36"

DATE: OCTOBER, 1992

6			
	electric	cities	of georgia

REVISIONS <u>JULY, 2002</u> <u>JANUARY, 2007</u>

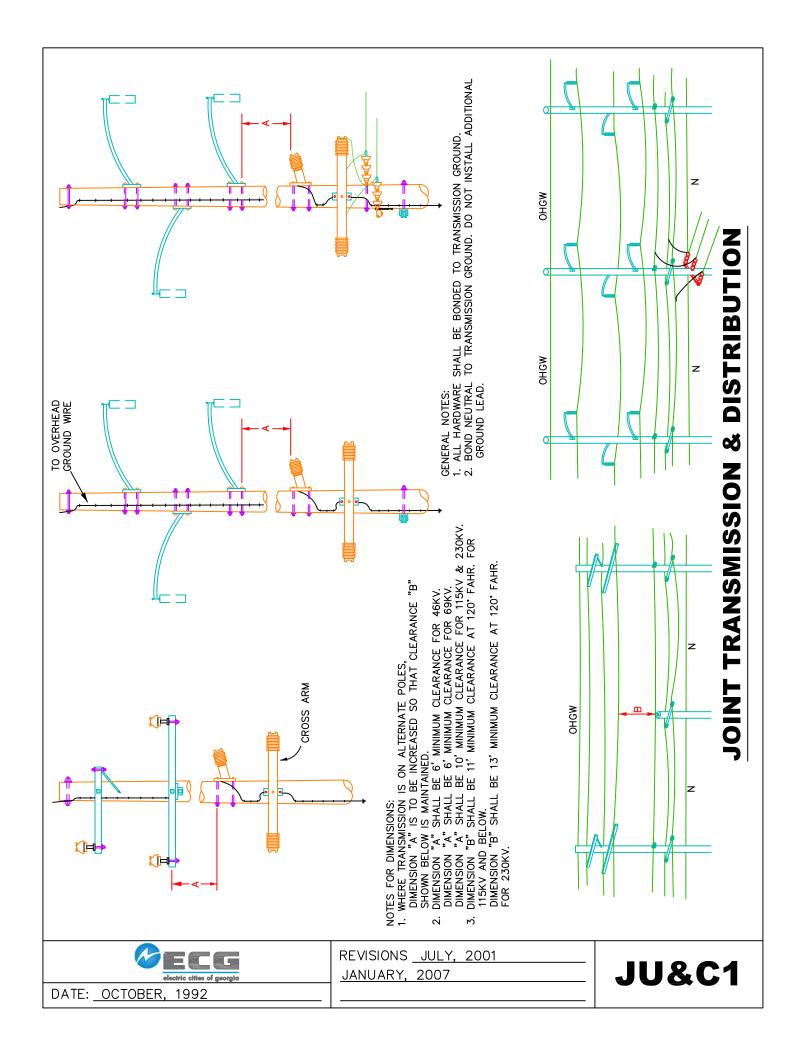
DC-C8S

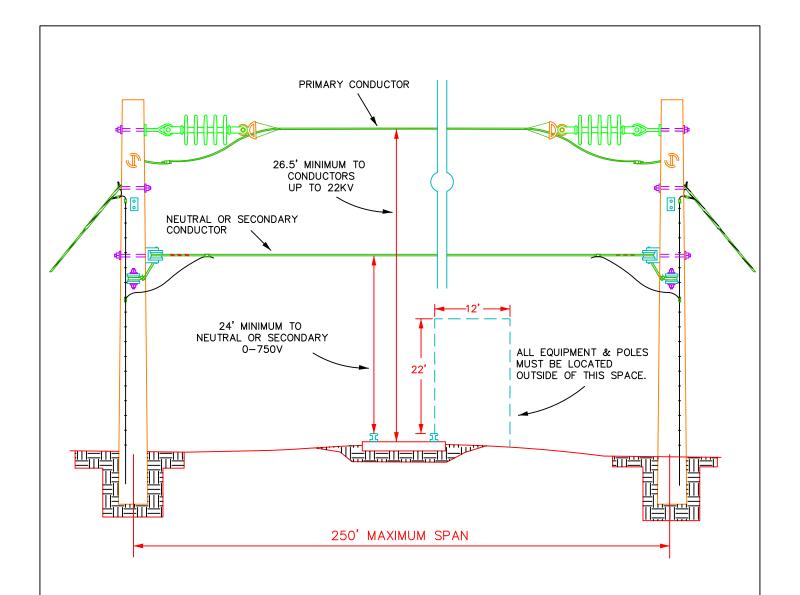
ELECTRIC CITIES OF GEORGIA

HORIZONTAL DOUBLE DEADEND DOUBLE CIRCUIT CONSTRUCTION

DC-C8S

ITRM	QUANTITY	STOCK NO.	MATERIAL
	2		BOLT, EYE, 5/8", LENGTH AS REQ'D
	7		BOLT, MACHINE, 5/8", LENGHT AS REQ'D
	1		CLEVIS, SECONDARY
	2		CROSSARM, STEEL, 60" OR 78"
	12		DEADEND ASSEMBLY, PRIMARY
	2		DEADEND NEUTRAL ASSEMBLY
	2		EYENUT, 5/8"
	4		INSULATOR, HORIZONTAL POST TIE TOP
	2		INSULATOR, PIN 15 KV
	1		INSULATOR, SPOOL
	12		INSULATOR, SUSPENSION
	9		NUT, LOCK, 5/8"
	2		PIN, JUMPER, LEAD HEAD
	4		STUD, MOUNTING, F/POST INSULATOR
	12		WASHER, SQUARE 2-1/2" X 2-1/2"





- 1. IF SPAN LENGTH EXCEEDS 250 FEET, CONDUCTOR CLEARANCE IS TO BE INCREASED 0.3 FEET FOR EACH 10 FEET SPAN LENGTH IN EXCESS OF THE 250 FEET.
- 2. CROSSINGS SHOULD BE MADE ON A COMMON SUPPORT STRUCTURE WHERE PRACTICAL. COOPERATION BETWEEN THE PARTIES CONCERNED SHALL PREVAIL PROPER CLEARANCES.
- 3. EXCEPTIONS TO 12' HORIZONTAL SIDE CLEARANCE:
- (a) A CLEARANCE OF NOT LESS THAN 8 FEET MAY BE ALLOWED WHERE NECESSARY IF THE SUPPORTING STRUCTURE IS NOT THE CONTROLLING OBSTRUCTION, PROVIDED SUFFICIENT SPACE FOR A DRIVEWAY IS LEFT WHERE CARS ARE LOADED.
- (b) WHERE NECESSARY TO PROVIDE SAFE OPERATING CONDITIONS WHICH REQUIRE AN UNINTERRUPTED VIEW OF SIGNALS, SIGNS, ETC. ALONG TRACKS THE PARTIES CONCERNED SHALL COOPERATE IN LOCATING STRUCTURES TO PROVIDE THE NECESSARY CLEARANCE.
- (c) AT INDUSTRIAL SIDINGS, A CLEARANCE OF NOT LESS THAN 8 FEET SHALL BE PERMITTED, PROVIDED SUFFICIENT SPACE IS LEFT WHERE CARS CAN BE LOADED OR UNLOADED.

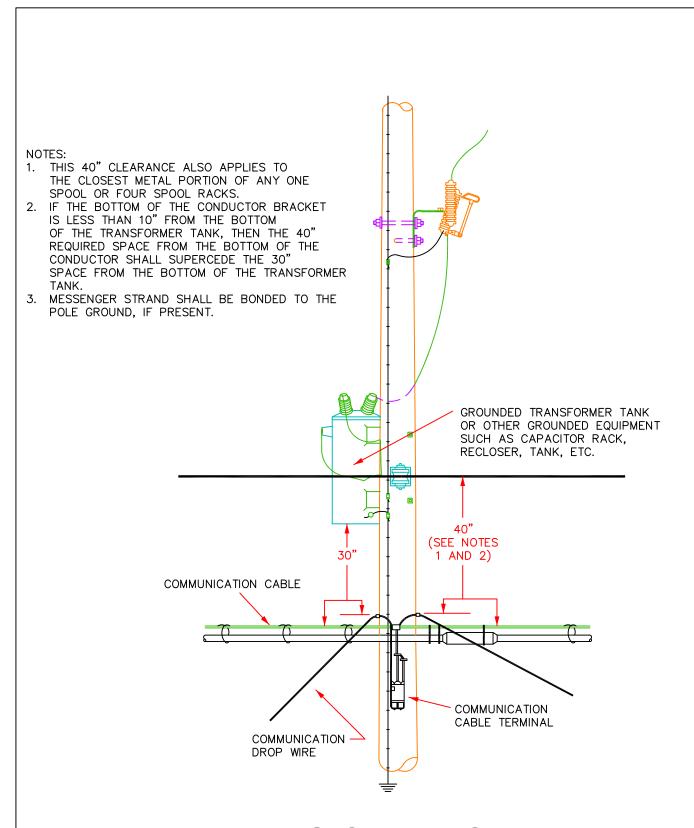
RAILROAD CROSSING CONSTRUCTION CLEARANCES



DATE: OCTOBER, 1992

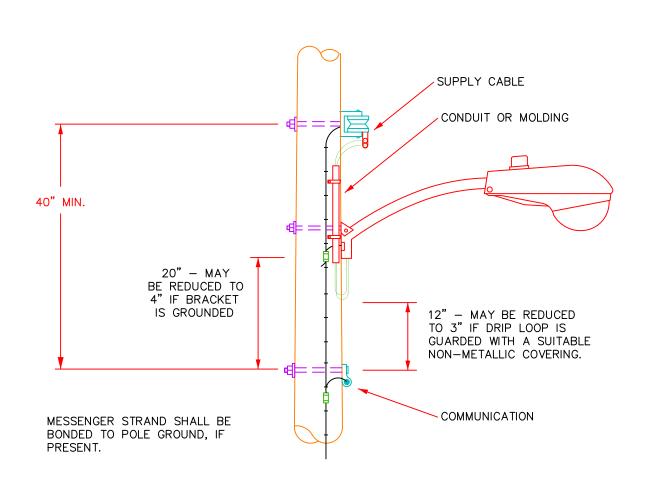
REVISIONS <u>JULY, 2001</u> JANUARY, 2007

JU&C2



TRANSFORMER POLE

electric cities of georgia	REVISIONS JULY, 2001	JU&C3
DATE: OCTOBER, 1992		



NOTES:

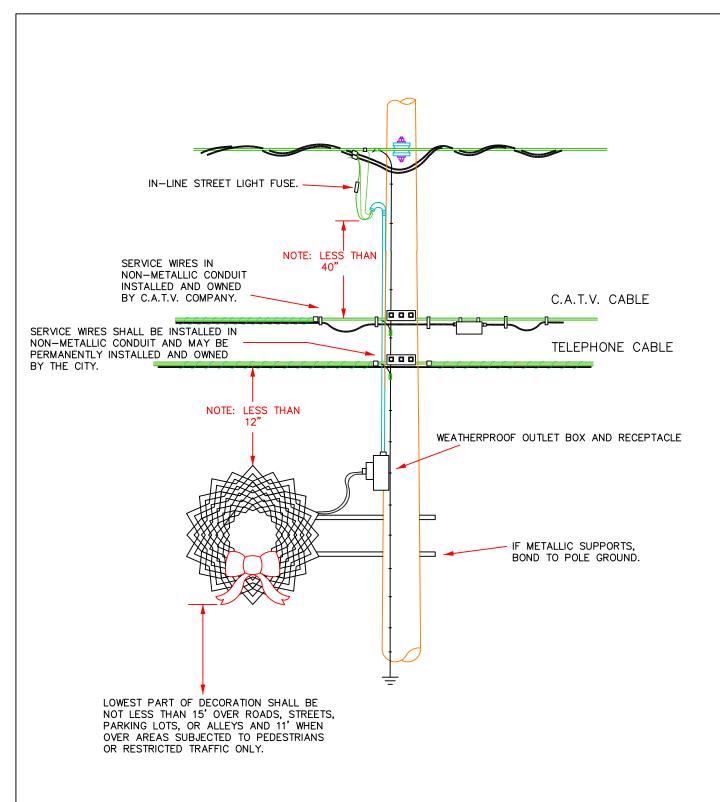
- 1.) LIGHT FIXTURE SHOWN IS SYMBOLIC ONLY. CLEARANCES SHOWN ARE APPLICABLE TO ANY TYPE FIXTURE USED.
- 2.) LOWEST PART OF LUMINAIRE SHALL BE NOT LESS THAN 15' OVER ROADS, STREETS, PARKING LOTS, OR ALLEYS.

C.A.T.V., TELEPHONE, OTHER SEPARATION FROM LUMINAIRES

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electric cities of georgia	
DATE: OCTOBER, 1992	

REVISIONS JULY, 2002

JU&C4

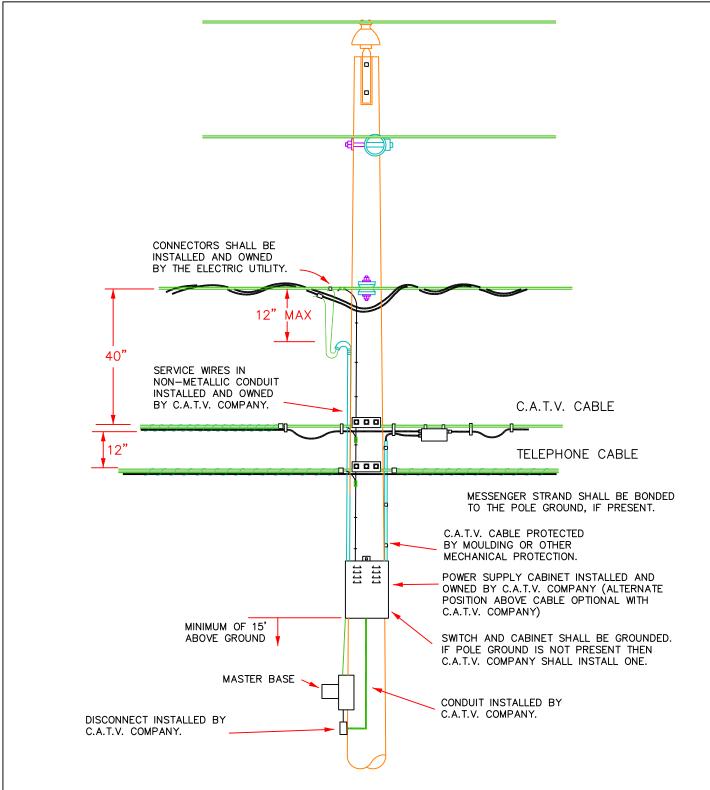


DECORATIVE ATTACHMENT INSTALLATION

electric	cities of	georgia

REVISIONS JULY, 2001

JU&C5



COMMUNICATION/SIGNAL TYPE ATTACHMENT C.A.T.V. POWER SUPPLY INSTALLATION

electric	cities (of georgia

REVISIONS JULY, 2001

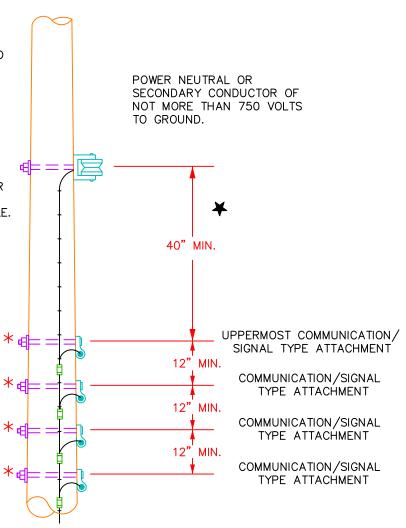
JU&C6

*COMMUNICATION/SIGNAL TYPE ATTACHMENT TELEPHONE CABLE C.A.T.V. CABLE ALARM CABLE (FIRE, POLICE, WATER TOWER LEVEL, ETC.) TRAFFIC SIGNAL CONTROL CABLE TELEGRAPH CABLE PUBLIC OR PRIVATE COMMUNICATION

NOTES:

CABLE

- 1.) WHEN C.A.T.V. AND TELEPHONE ARE ATTACHED TO POLE, C.A.T.V.'S PREFERRED POSITION IS ABOVE TELEPHONE (12" MIN.). IF OTHER COMMUNICATION/SIGNAL TYPE CABLES ARE ATTACHED TO POLE WITH C.A.T.V. AND/OR TELEPHONE, THEIR POSITION SHALL BE MUTUALLY AGREED UPON.
- 2.) 12" MIN. SPACING SHOULD BE MAINTAINED BETWEEN CABLES. C.A.T.V. AND TELEPHONE DROPS CAN BE LESS THAN 12" FROM OTHER CABLES. DROPS SHALL BE 40" BELOW POWER NEUTRAL OR SECONDARY AT POLE.
- 3.) ALL CABLES SHALL BE ON SAME SIDE OF POLE.
- 4.) MESSENGER STRAND SHALL BE BONDED TO POLE GROUND, IF PRESENT.



FOR SUPPLY NEUTRAL ONLY, THIS MAY BE REDUCED TO 30".

MULTIPLE COMMUNICATION/ SIGNAL TYPE ATTACHMENT

electric	cities of	georgia

REVISIONS JULY, 2001

JU&C7

FOOTNOTES TABLE 1:

1. Where the height of a building or other installation does not permit service drops to meet these values, the clearances <u>over residential driveways only may be reduced</u> to the following:

		<u> </u>
a.	Service drops limited to 300 V to ground	12.5
b.	Service drip loops limited to 300 V to ground	10.5
c.	Service limited to 150 V to ground	12.0
d.	Drip loops only of service limited to 150 V to ground	10.0

2. Where the height of a building or other installation does not permit service drops to meet these values, the clearances may be reduced to the following:

												<u> </u>
a.	Service	drops,	including	drip	loops,	limited	to	300	V	to	ground	10.5
b.	Service	drops,	including	drip	loops,	limited	to	150	٧	to	ground	10.0

- 3. Spaces and ways subject to pedestrians or restricted traffic only are those areas where equestrians, vehicles, or other mobile units, exceeding 8ft. in height, are prohibited by regulation or permanent terrain configurations or are otherwise not normally encountered or reasonably anticipated.
- 4. Where a supply or communication line along a road is located relative to fences, ditches, embankments, etc., so that the ground under the line would not be expected to be traveled except by pedestrians, the clearance may be reduced to the following values:

		<u>FEET:</u>
a.	Insulated communications cables, neutrals, guys,	
	and multiplex supply cables limited to 150 V to ground	9.5
b.	Multiplex supply cables limited to 300 V to ground	12.5

- 5. This clearance may be reduced to 13 ft. for communication conductors and guys.
- 6. Where this construction crosses over or runs along alleys, driveways, or parking lots, this clearance may be reduced to 15 ft.
- 7. For controlled impoundments, the surface area and corresponding clearances shall be based upon the design high water level. For other waters, the service area shall be that enclosed by its annual high water mark, and clearances shall be based on the normal flood level. The clearance over rivers, streams, and canals shall be based upon the largest surface area of any 1 mi. long segment, which includes the crossing. The clearance over a canal, river, or stream normally used to provide access for sailboats to a larger body of water shall be the same as that required for the larger body of water.
- 9. For the purpose of this rule, trucks are defined as any vehicle exceeding 8 ft. in height. Areas not subject to truck traffic are areas where truck traffic is not normally encountered or not reasonably anticipated.
- 10. Communication cables and conductors may have a clearance of 15 ft. where poles are back of curbs or other deterrents to vehicular traffic.

Note: Footnote 8 and 11 were intentionally omitted

FOOTNOTES TABLE 1: (cont'd)

- 12. Where the U.S. Army Corps of Engineers, or the state or the surrogate thereof has issued a crossing permit, clearance of that permit shall govern.
- 13. For controlled impoundments, the surface area and corresponding clearance shall be based upon the design high water level. For other waters, the surface area shall be that enclosed by its annual high water mark, and clearances shall be shall be based upon the largest surface area of any one mile long segment that includes the crossing. The clearance of a canal, river or stream normally used to provide access for sailboats to a larger body of water shall be the same as required for the larger body of water.
- 14. Where an over water obstruction restricts vessel height to less than the following:

Surface Area	Reference Vessel Height
(Acres)	(Feet)
less than 20	16
20 to 200	24
200 to 2000	30
over 2000	36

The required clearances may be reduced by the difference between the reference vessel height given above and the over water obstruction height, except that the reduced clearance shall not be less than that required for the surface area on the line crossing side of the obstruction.

The vertical clearance shall be maintained with the conductor at final sag and at the following condition whichever results in the greater vertical sag:

1. 32° F, no wind, with radial thickness of ice of 1/4 inch for medium loading and no ice for light loading.

Or

2. The maximum conductor for which the line is designed to operate, if greater than 120° F.(120° F for all neutrals)

Note:

All clearances shown are design clearances under specified conditions, not measured clearances under ambient conditions.

	VOLTAGES ARE PHASE TO GROUND FOR EFFECTIVELY GROUNDED CIRCUITS					
	NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS, OR CABLES	INSULATED COMMUNICATION CONDUCTORS AND CABLE; MESSENGERS; GROUNDED GUYS; SYSTEM NEUTRAL	DUPLEX, TRIPLEX, & QUADRAPLEX CABLE WITH GROUNDED GUYS; GROUNDED NEUTRAL 0 - 750 VOLTS	OPEN WIRE SECONDARY CONDUCTORS 0 - 750 VOLTS	OPEN WIRE CONDUCTORS OVER 750 VOLTS TO 22KV	
		(IN FEET)	(IN FEET)	(IN FEET)	(IN FEET)	
_	ERE WIRES, CONDUCTORS, OR CABLE CROSS				20.5	
_	TRACK RAILS OF RAILROADS.	23.5	24	24.5	26.5	
2.	ROADS, STREETS, AND OTHER AREAS SUBJECT TO TRUCK TRAFFIC. (SEE NOTE 9.)	15.5	16	16.5	18.5	
3.	DRIVEWAYS, PARKING LOTS, AND ALLEYS	15.5 (SEE NOTES 1 AND 6)	16 (SEE NOTES 1 AND 6)	16.5 (SEE NOTE 1)	18.5	
4.	OTHER LAND TRAVERSED BY VEHICLES SUCH AS CULTIVATED, GRAZING, FOREST, ORCHARD, ETC.	15.5	16	16.5	18.5	
5.	SPACES OR WAYS SUBJECT TO PEDESTRIAN OR RESTRICTED TRAFFIC ONLY. (SEE NOTE 3.)	9.5	12 (SEE NOTE 2)	12.5 (SEE NOTE 1)	14.5	
6.	WATER AREAS NOT SUITABLE FOR SAILBOATS OR WHERE SAILBOATS ARE PROHIBITED. (SEE NOTE 12.)	14	14.5	15	17	
7.	A) WATER AREAS (NOT REGULATED BY CORPS OF ENGR.) SUITABLE FOR SAILBOATS, INCLUDING LAKES, PONDS, RESERVOIRS, TIDAL WATERS, RIVERS, STREAMS, AND CANALS WITH AN UNOBSTRUCTED SURFACES AREA OF: A. LESS THAN 20 ACRES B. 20 TO 200 ACRES C. 200 TO 2000 ACRES D. OVER 2000 ACRES (SEE NOTES 12, 13, & 14.)	17.5 25.5 31.5 37.5	18 26 32 38	18.5 26.5 32.5 38.5	20.5 28.5 34.5 40.5	
7.	B) WATER AREAS REGULATED BY CORPS OF ENGINEERS (SEE NOTE 7)	52	55	55	55	
8.	B. PUBLIC OR PRIVATE LAND AND WATER AREAS POSTED FOR RIGGING OR LAUNCHING SAILBOATS. CLEARANCE ABOVE GROUND SHALL BE 5 FEET GREATER THAN IN 7. ABOVE, FOR THE TYPE OF WATER AREAS SERVED BY THE LAUNCHING SITE.					
	WHERE WIRES, CONDUCTOR, OR CABLES RUN ALONG AND WITHIN THE LIMITS OF HIGHWAY OR OTHER ROAD RIGHT-OF-WAY BUT DO NOT OVERHANG THE ROADWAY					
9.	ROADS, STREET, OR ALLEYS	15.5 (SEE NOTES 6 AND 10)	15.5 (SEE NOTES 6)	16.5	18.5	
10.	ROADS IN RURAL DISTRICTS WHERE IT IS UNLIKELY THAT VEHICLES WILL BE CROSSING UNDER THE LINE.	15.5 (SEE NOTES 4 AND 5)	14.0 (SEE NOTES 4)	14.5 (SEE NOTES 4)	16.5	

*ALWAYS REFER TO THE LATEST NESC (REFERENCE NESC RULE 232, 2007 EDITION, FOR ADDITIONAL INFORMATION)

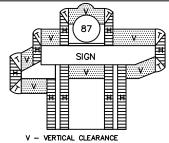
VERTICAL CLEARANCES OF WIRES, CONDUCTORS, AND CABLES ABOVE GROUND, ROADWAYS, RAILS, OR WATER

electric cities of georgia	REVISIONS JULY, 2002	TABLE 1
DATE: OCTOBER, 1992		

FOOTNOTES TABLE 2:

- 1. Where a building, sign, chimney, antenna, tank, or other installation does not require maintenance such as painting, washing, changing of sign letters, or other operations which would require persons to work or pass between supply conductors or unguarded rigid live parts and structures, the clearance may be reduced by 2 ft.
- 3. A roof, balcony, or area is considered readily accessible to pedestrians if the means of access is through a doorway, ramp, window, stairway, or permanently mounted ladder. A permanently mounted ladder is not considered a means of access if its bottom rung is 8 ft. or more from the ground or other permanently installed accessible surface.
- 4. The required clearances shall be to the closest approach of motorized signs or moving portions of installations.
- 5. For the purpose of this rule, trucks are defined as any vehicle exceeding 8 ft. in height.
- 6. This clearance may be reduced to 3 in. for the grounded portions of the guys.
- 7. Windows not designed to open may have the clearance permitted for the walls and projections.
- 8. The horizontal clearance shall not be less than 3.5' plus the displacement of the conductor by a 6 lb/ft² wind at 60° F, final sag.
- 9. The horizontal clearance shall not be less than 4.5' plus the displacement of the conductor by a 6 lb/ft² wind at 60° F, final sag.
- 10. Where available space will not permit this value, the clearance may be reduced to 7.0 ft. for conductors limited to 8.7 KV to ground.





T - TRANSITIONAL = VERTICAL (ARC)

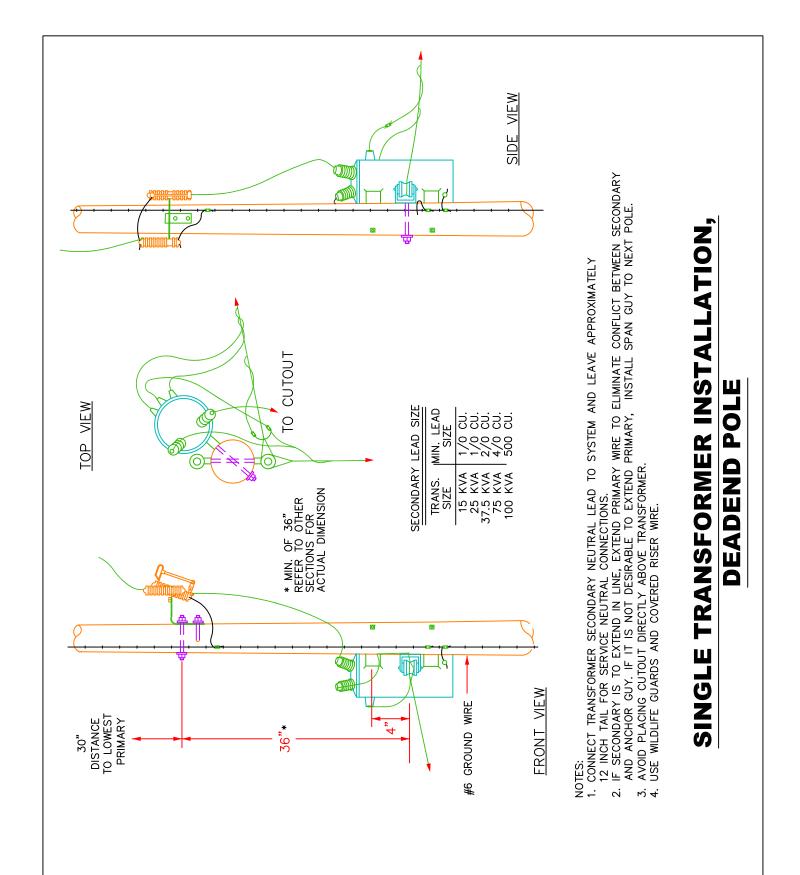
VOLTAGES ARE PHA	= VERTICAL (ARC) ASE TO GROUND	FOR EFFECT	IVELY GROUN	IDED CIRCUI	TS
	INSULATED COMMUNICATION CONDUCTORS AND CABLES; MESSENGERS; GROUNDED GUYS; NEUTRAL CONDUCTORS	CABLE	OPEN WIRE CONDUCTORS 0 — 750 VOLTS	UNGUARDED RIGID LIVE PARTS, OVER 750 VOLTS TO 22 KILOVOLTS	CONDUCTORS OVER 750 VOLTS TO 22 KILOVOLT
CLEARANCE FROM:	(IN FEET)	(IN FEET)	(IN FEET)	(IN FEET)	(IN FEET)
BUILDINGS A. HORIZONTAL (1) TO WALLS, PROJECTIONS, AND GUARDED WINDOWS.	4.5 (SEE NOTE 6)	5.0 (SEE NOTE 1)	5.5 (SEE NOTE 1 & 8)	7.0 (SEE NOTE 1)	7.5 (SEE NOTE 1,9,&10)
(2) TO UNGUARDED WINDOWS. (SEE NOTE 7)	4.5	5.0	5.5 (SEE NOTE 1 & 8)	7.0	7.5 (SEE NOTE 9 & 10)
(3) TO BALCONIES AND AREA ACCESSIBLE TO PEDESTRIANS. (SEE NOTE 3)	4.5	5.0	5.5 (SEE NOTE 8)	7.0	7.5 (SEE NOTE 9 & 10)
B. VERTICAL (1) OVER OR UNDER ROOF OR PROJECTIONS NOT READILY ACCESSIBLE TO PEDESTRIANS. (SEE NOTE 3)	3.0	3.5	10.5	12.0	12.5
(2) OVER OR UNDER BALCONIESAND ROOFS READILY ACCESSIBLE TO PEDESTRIANS. (SEE NOTE 3)	10.5	11.0	11.5	13.0	13.5
(3) OVER ROOFS ACCESSIBLE TO VEHICLES, BUT NOT SUBJECT TO TRUCK TRAFFIC. (SEE NOTE 5)	10.5	11.0	11.5	13.0	13.5
(4) OVER ROOFS ACCESSIBLE TO TRUCK TRAFFIC. (SEE NOTE 5)	15.5	16.0	16.5	18.0	18.5
2. SIGNS, CHIMNEYS, BILLBOARDS, RADIO AND TELEVISION ANTENNAS, TANKS, AND OTHER INSTALLATIONS NOT CLASSIFIED AS BUILDINGS OR BRIDGES. A. HORIZONTAL; (SEE NOTE 4) (1) READILY ACCESSIBLE	4.5	5.0	5.5	7.0	7.5
(2) NOT READILY ACCESSIBLE	3.0	3.5	5.5 (SEE NOTES 1 & 8)	7.0	7.5 (SEE NOTE 1,9,&10)
B. VERTICAL (1) OVER OR UNDER CATWALKS AND OTHER SURFACES UPON WHICH PERSONNEL WALK.	10.5	11.0	11.5	13.0	13.5
(2) OVER OR UNDER OTHER PORTIONS OF SUCH INSTALLATIONS.	3.0	3.5	6.0 (SEE NOTE 1)	7.5	8.0

*ALWAYS REFER TO THE LATEST NESC (REFERENCE NESC RULE 232, 2007 EDITION, FOR ADDITIONAL INFORMATION)

CLEARANCES OF WIRES, CABLES, AND UNGUARDED RIGID LIVE PARTS ADJACENT BUT NOT ATTACHED TO **BUILDINGS AND OTHER INSTALLATIONS EXCEPT BRIDGES**

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electric cities of georgic

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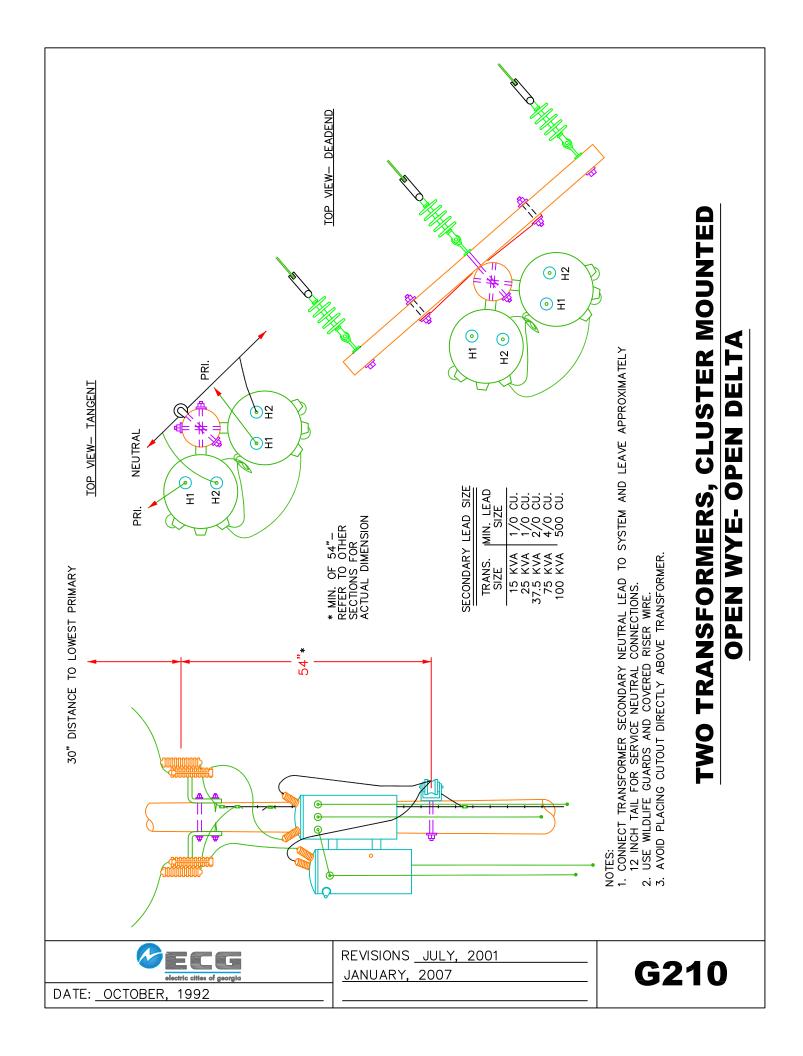
G110

ELECTRIC CITIES OF GEORGIA

SINGLE TRANSFORMER INSTALLATION, DEADEND POLE

G110

TEM	QUANTITY	STOCK NO.	MATERIAL
	1		ARRESTER
	3		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	1		BRACKET, CUTOUT & ARRESTER, T-HANGER
	1		CLAMP, HOT LINE
	1		CLEVIS, SECONDARY
	1		ситоит
	1		FUSE, TYPE AND SIZE AS REQ'D.
	1		GUARD, ANIMAL
	1		INSULATOR, SPOOL
	1		NUT, LOCK, 5/8"
	1		SCREW, LAG, 1/2" X 4"
	1		STIRRUP, SIZE AS REQ'D.
	1		TRANSFORMER, OH, SIZE AS REQ'D.
	3		WASHERS, SQUARE 2-1/2" X 2-1/2"
	AS REQ'D.		WIRE, RISER, #6 COPPER, LENGTH AS REQ'D.

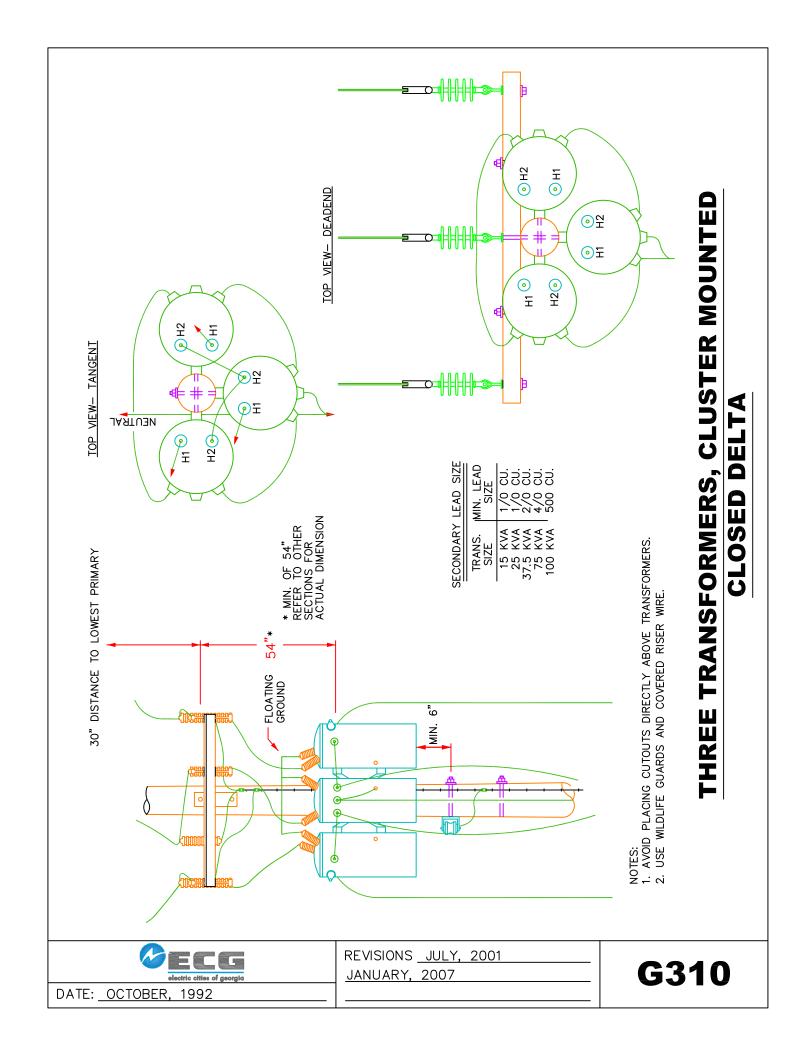


ELECTRIC CITIES OF GEORGIA

TWO TRANSFORMERS, CLUSTER MOUNTED OPEN WYE- OPEN DELTA

G210

ITEM	QUANTITY	STOCK NO.	MATERIAL
	2		ARRESTER
	6		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	2		BRACKET, CUTOUT & ARRESTER, T-HANGER
	2		CLAMP, HOT LINE
	1		CLEVIS, SECONDARY
	2		ситоит
	2		FUSE, TYPE AND SIZE AS REQ'D.
	2		GUARD, ANIMAL
	1		INSULATOR, SPOOL
	2		NUT, LOCK, 5/8"
	2		SCREW, LAG, 1/2" X 4"
	2		STIRRUP, SIZE AS REQ'D.
	2		TRANSFORMER, OH, SIZE AS REQ'D.
	6		WASHERS, SQUARE 2-1/2" X 2-1/2"
	AS REQ'D.		WIRE, RISER, #6 COPPER, LENGTH AS REQ'D.

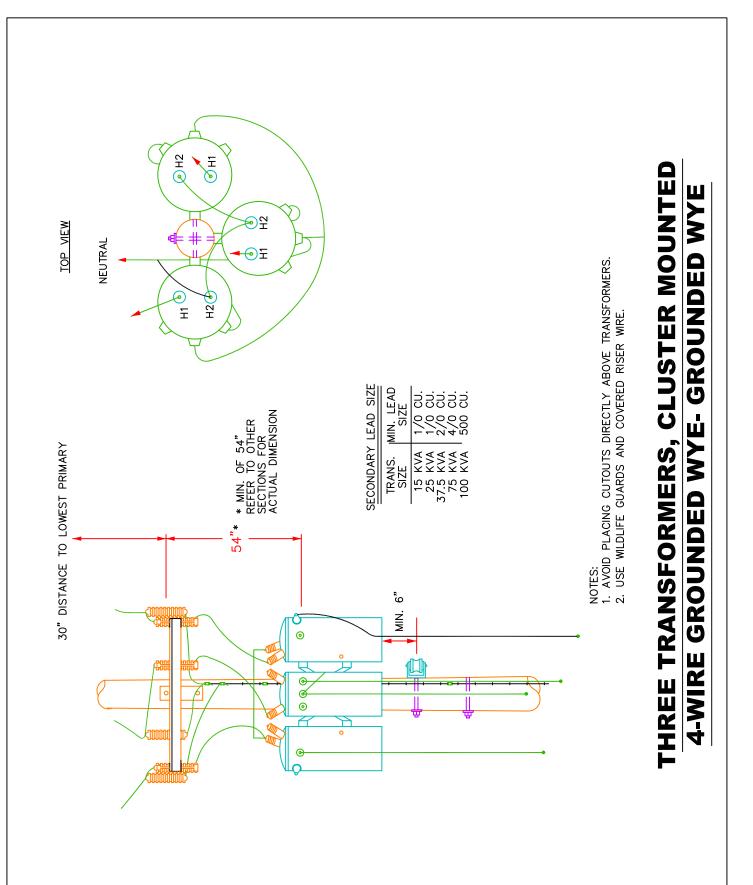


ELECTRIC CITIES OF GEORGIA

THREE TRANSFORMERS, CLUSTER MOUNTED CLOSED DELTA

G310

ITEM	QUANTITY	STOCK NO.	MATERIAL
	3		ARRESTER
	2		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	1		BRACKET, CUTOUT & ARRESTER, T-HANGER
	3		CLAMP, HOT LINE
	1		CLEVIS, SECONDARY
	3		ситоит
	3		FUSE, TYPE AND SIZE AS REQ'D.
	3		GUARD, ANIMAL
	1		INSULATOR, SPOOL
	3		NUT, LOCK, 5/8"
	1		SCREW, LAG, 1/2" X 4"
	3		STIRRUP, SIZE AS REQ'D.
	3		TRANSFORMER, OH, SIZE AS REQ'D.
	2		WASHERS, SQUARE 2-1/2" X 2-1/2"
	AS REQ'D.		WIRE, RISER, #6 COPPER, LENGTH AS REQ'D.



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G312

ELECTRIC CITIES OF GEORGIA

THREE TRANSFORMERS, CLUSTER MOUNTED 4-WIRE GROUNDED WYE- GROUNDED WYE

G312

ITEM	QUANTITY	STOCK NO.	MATERIAL
	3		ARRESTER
	2		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	1		BRACKET, 3-PHASE ARRESTER & CUTOUT
	3		CLAMP, HOT LINE
	1		CLEVIS, SECONDARY
	3		ситоит
	3		FUSE, TYPE AND SIZE AS REQ'D.
	3		GUARD, ANIMAL
	1		INSULATOR, SPOOL
	3		NUT, LOCK, 5/8"
	1		SCREW, LAG, 1/2" X 4"
	3		STIRRUP, SIZE AS REQ'D.
	3		TRANSFORMER, OH, SIZE AS REQ'D.
	2		WASHERS, SQUARE 2-1/2" X 2-1/2"
	AS REQ'D.		WIRE, RISER, #6 COPPER, LENGTH AS REQ'D.

FUSE CHART FOR OVERHEAD TRANSFORMERS AND CAPACITORS OPERATING ON A 12470/7200 VOLT WYE SYSTEM

USE SPECIFIC FUSE TYPES TO BE SELECTED TO BE WITH OVERALL SYSTEM PROTECTION PLAN

COMPATIBLE

TRANSFORMER KVA	FULL LOAD AMPS	FUSE TYPE "KS" SIZE	FUSE TYPE "QA" SIZE	FUSE TYPE "T" SIZE	FUSE TYPE "N" SIZE	FUSE TYPE "K" SIZE
10	1.39	2	2	2	3	2
15	2.08	3	5	3	5	3
25	3.47	5	7	6	5	6
37.5	5.21	7	10	8	7	8
50	6.94	10	15	10	10	10
75	10.42	15	20	15	15	15
100	13.89	20	30	20	20	20
167	23.19	30	50	30	30	30
CAPACITOR KVAR IN BANK	FULL LOAD AMPS	FUSE TYPE "KS" SIZE	FUSE TYPE "QA" SIZE	FUSE TYPE "T" SIZE	FUSE TYPE "N" SIZE	FUSE TYPE "K" SIZE
	LOAD					
KVAR IN BANK	LOAD AMPS	"KS" SIZE	"QA" SIZE	"T" SIZE	"N" SIZE	"K" SIZE
KVAR IN BANK 150	LOAD AMPS 6.94	"KS" SIZE	"QA" SIZE 15	"T" SIZE 10	"N" SIZE 10	"K" SIZE 10
KVAR IN BANK 150 300	LOAD AMPS 6.94 13.89	"KS" SIZE 10 15	"QA" SIZE 15 20	"T" SIZE 10 15	"N" SIZE 10 15	"K" SIZE 10 15
KVAR IN BANK 150 300 450	LOAD AMPS 6.94 13.89 20.83	"KS" SIZE 10 15 20	"QA" SIZE 15 20 30	"T" SIZE 10 15 20	"N" SIZE 10 15 20	"K" SIZE 10 15 20
KVAR IN BANK 150 300 450 600	LOAD AMPS 6.94 13.89 20.83 27.78	"KS" SIZE 10 15 20 25	"QA" SIZE 15 20 30 40	"T" SIZE 10 15 20 25	"N" SIZE 10 15 20 25	"K" SIZE 10 15 20 25
KVAR IN BANK 150 300 450 600 900	LOAD AMPS 6.94 13.89 20.83 27.78 41.67	"KS" SIZE 10 15 20 25 40	"QA" SIZE 15 20 30 40 60	"T" SIZE 10 15 20 25 40	"N" SIZE 10 15 20 25 40	"K" SIZE 10 15 20 25 40

electric	cities of	georgia

DATE: JANUARY, 2007

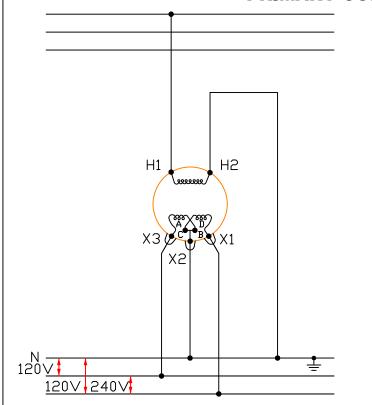
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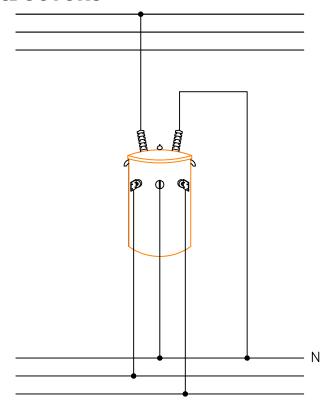
SECONDARY LEAD CHART

TRANSFORMER	SECONDARY VOLTAGE						
SIZE (KVA)	120/240	120/208Y	480 Delta	277/480 Y	120/240 Delta		
10	#1/0 Cu	#1/0 Cu	#1/0 Al #1/0 Cu	#1/0 Al #1/0 Cu	#1/0 AI #1/0 Cu		
15	#1/0 Cu	#4/0 Al #1/0 Cu	#1/0 Al #1/0 Cu	#1/0 Al #1/0 Cu	#1/0 Al #1/0 Cu		
25	#1/0 Cu	#4/0 Al #1/0 Cu	#1/0 Al #1/0 Cu	#1/0 Al #1/0 Cu	#1/0 Al #1/0 Cu		
37.5	#1/0 Cu	#350 AI #1/0 Cu	#1/0 Al #1/0 Cu	#1/0 Al #1/0 Cu	#350 AI #1/0 Cu		
50	#4/0 Cu	#350 AI #4/0 Cu	#4/0 Al #1/0 Cu	#4/0 AI #1/0 Cu	#4/0 Al #1/0 Cu		
75	#4/0 Cu	#750 AI	#4/0 Al #1/0 Cu	#4/0 Al #1/0 Cu	#750 AI		
100	#500 Cu	#750 AI	#350 AI #4/0 Cu	#350 AI #4/0 Cu	#750 AI		
167	#1000 Cu	(2) #750 AI	#750 AI	#750 AI	(2) #750 AI		
250	(2) #1000 AI	*	(2) #350 AI	(2) #350 AI	(2) #750 AI		
333	*	*	(2) #750 AI	(2) #750 AI	*		
500	*	*			*		

^{*—} Leads should be sized case to case. Most transformers 75 kVA and larger have spade terminals for paralleling conductors

ECG electric cities of georgia	REVISIONS	R2
DATE: JANUARY, 2008		



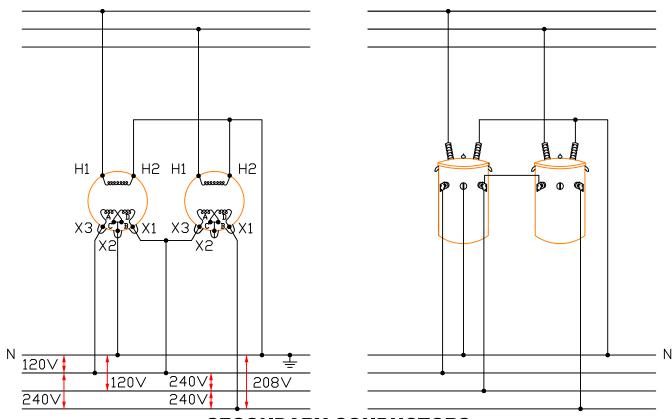


SECONDARY CONDUCTORS

(ADDITIVE POLARITY) PRIMARY WINDING CONNECTED PHASE TO GROUND

SINGLE PHASE CONNECTION

	<i>ØECG</i>
	electric cities of georgia
DATE:	OCTOBER, 1992



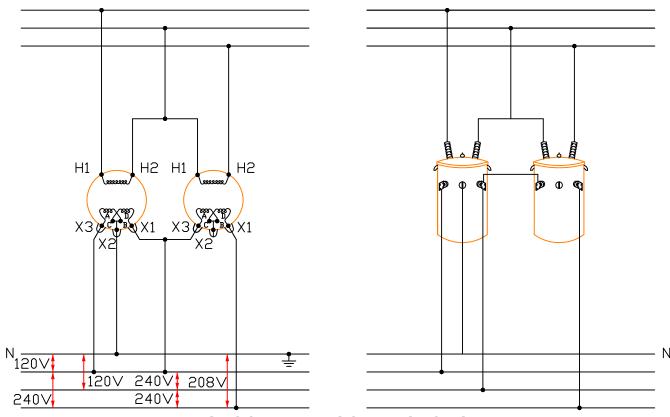
SECONDARY CONDUCTORS

(ADDITIVE POLARITY)

THREE PHASE OPEN WYE- OPEN DELTA CONNECTION

electric office of georgia	REVISIONS JULY, 2001	TC10
DATE: OCTOBER, 2001		



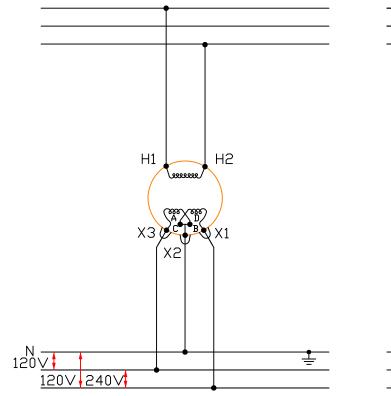


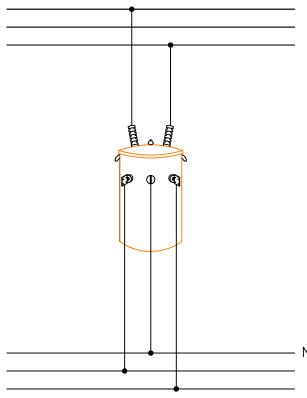
SECONDARY CONDUCTORS

(ADDITIVE POLARITY)

THREE PHASE OPEN DELTA - OPEN DELTA CONNECTION

ECC electric cities of georgia	REVISIONS <u>JULY</u> , 2001	TC
DATE: OCTOBER, 2001		





SECONDARY CONDUCTORS

(ADDITIVE POLARITY) PRIMARY WINDING CONNECTED PHASE TO PHASE

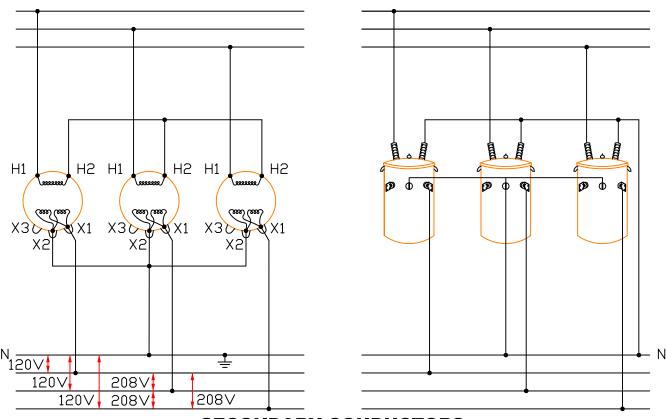
SINGLE PHASE CONNECTION

electric	cities of	georgia

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TC2

DATE: OCTOBER, 1992



SECONDARY CONDUCTORS

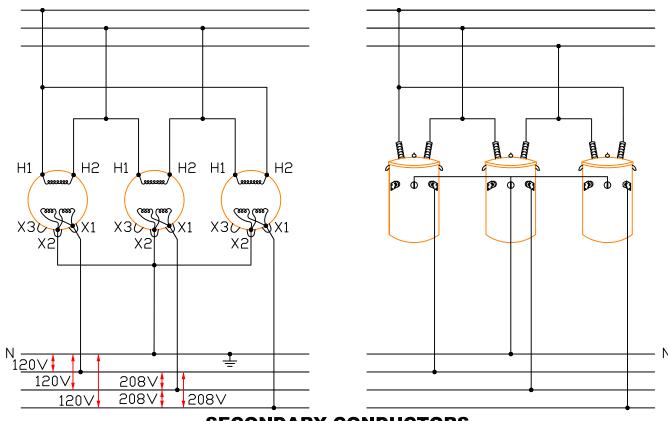
(ADDITIVE POLARITY)

THREE PHASE WYE - WYE CONNECTION

ØECG	REVISIONS _
electric cities of georgia	
DATE: OCTOBER, 1992	1

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TC3

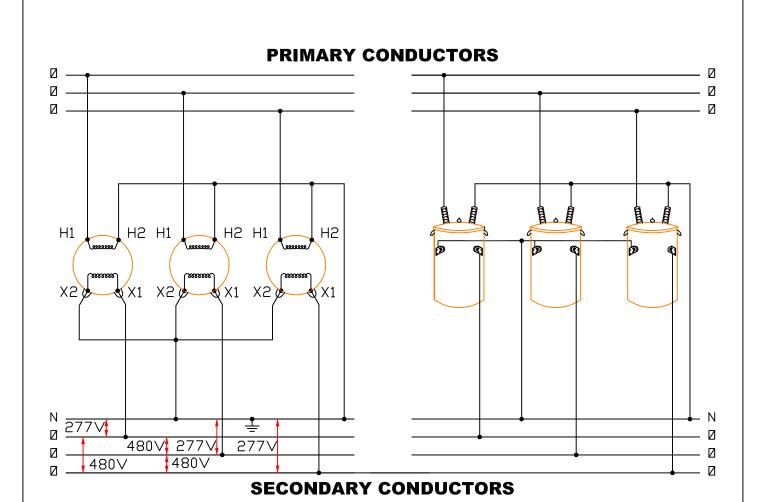


SECONDARY CONDUCTORS

(ADDITIVE POLARITY)

THREE PHASE DELTA - WYE CONNECTION

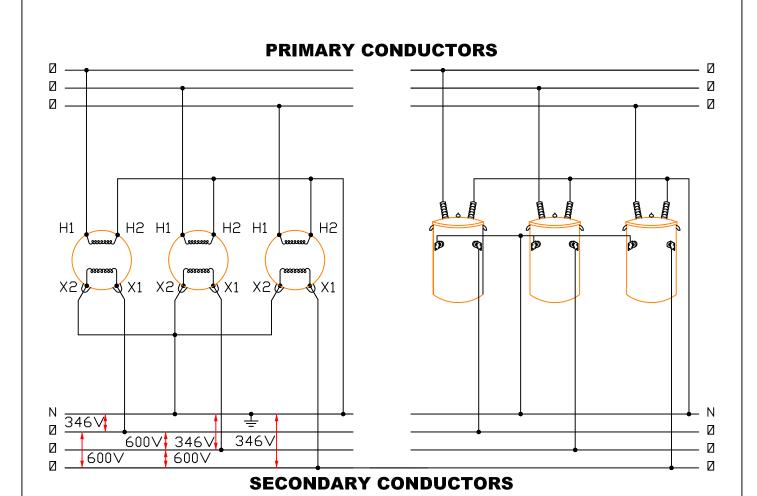
electric cities of georgia	REVISIONS JULY, 2002	TC4
DATE: OCTOBER, 1992		



(ADDITIVE POLARITY)

THREE PHASE 4-WIRE 277/480 VOLT WYE CONNECTION

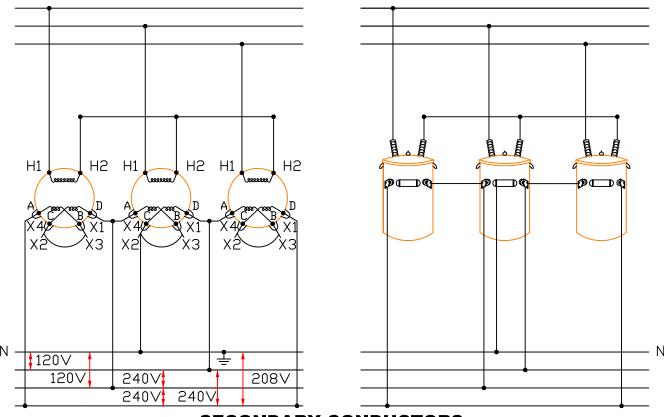
ECG electric office of georgia	REVISIONS JULY, 2001	TC5
DATE: OCTOBER, 2001		



(ADDITIVE POLARITY)

THREE PHASE 4-WIRE 346/600 VOLT WYE CONNECTION

electric office of georgia	REVISIONS JULY, 2001	TC6
DATE: OCTOBER, 2001		



SECONDARY CONDUCTORS

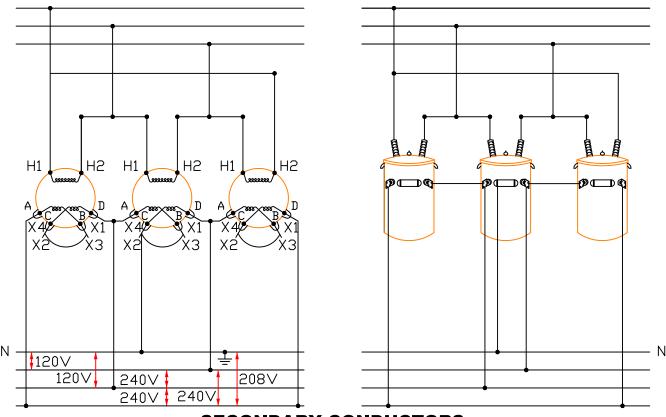
(ADDITIVE POLARITY)

THREE PHASE WYE - DELTA CONNECTION

	<i>ØECG</i>
	electric cities of georgia
DATE:	OCTOBER, 2001

REVISIONS	JULY,	2002	

TC7

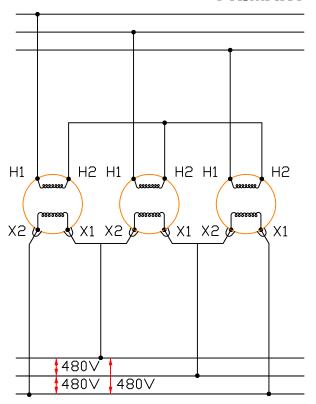


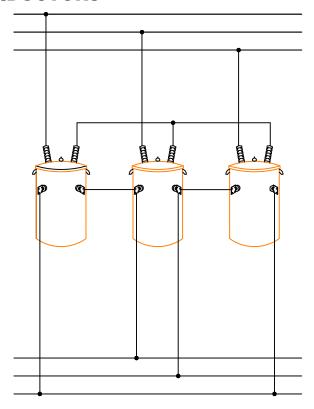
SECONDARY CONDUCTORS

(ADDITIVE POLARITY)

THREE PHASE DELTA - DELTA CONNECTION

electric cities of georgia	REVISIONS JULY, 2002	TC8
DATE: OCTOBER, 2001		





SECONDARY CONDUCTORS

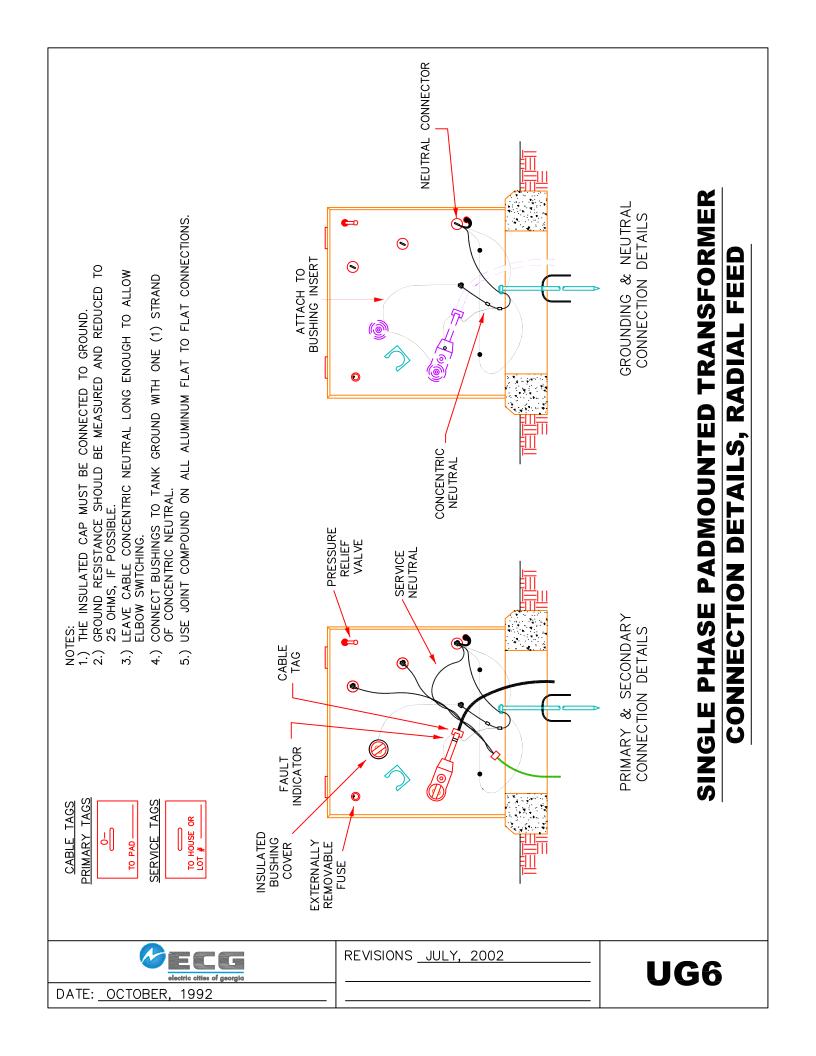
(ADDITIVE POLARITY)

THREE PHASE 3-WIRE 480 VOLT DELTA CONNECTION

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	electric cities of georgia
DATE:	OCTOBER, 2001

REVISIONS	JULY,	2001	

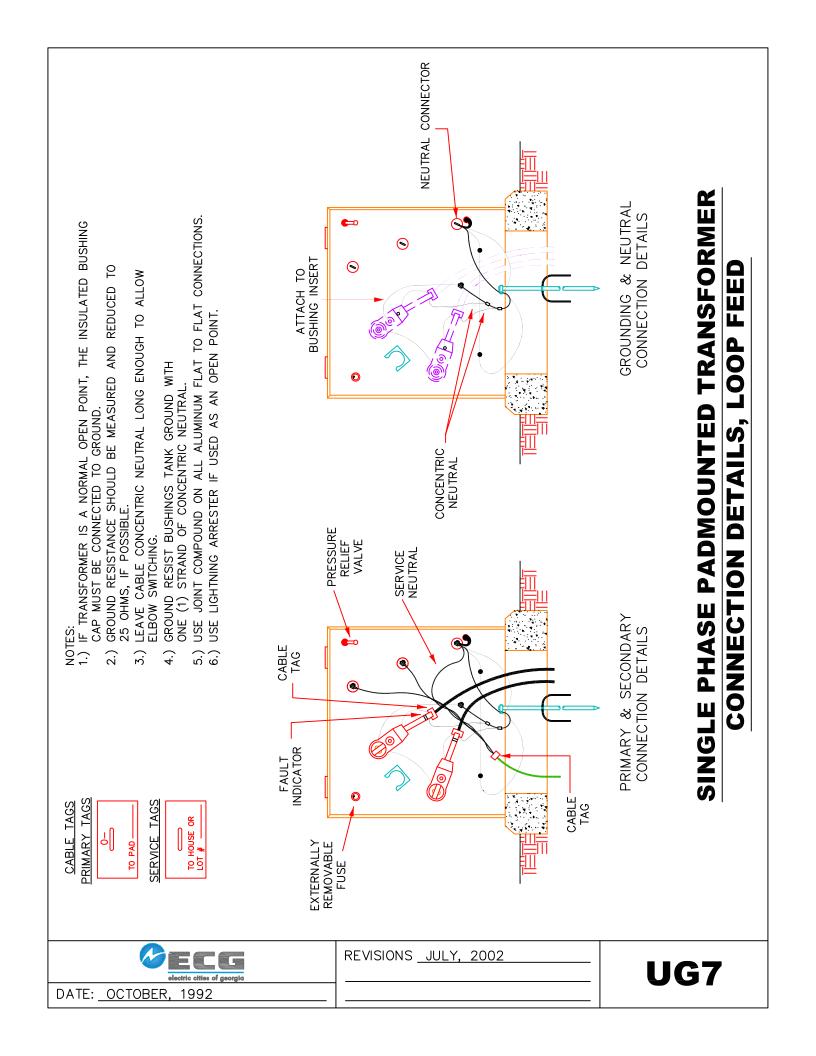
TC9



ELECTRIC CITIES OF GEORGIA

SINGLE PHASE PADMOUNTED TRANSFORMER CONNECTION DETAILS, RADIAL FEED

TEM	QUANTITY	STOCK NO.	MATERIAL
	2		#2, 7 STRAND BARE COPPER, AS REQ'D.
	1		BUSHING INSERT
	2		CONNECTOR, SECONDARY, HOT LEG INS.,
			TYPE AND SIZE AS REQ'D.
	1		CONNECTOR, SECONDARY, NEUTRAL.,
			TYPE AND SIZE AS REQ'D.
	1		FAULT INDICATOR
	2		LUG, TRANSFORMER GROUNDING
	1		PADLOCK
	1		TAG, CABLE, PRIMARY
	1		TAG, CABLE, SERVICE
	1		TRANSFORMER, SINGLE PHASE,
			PADMOUNTED, SIZE AS REQ'D.
	1		WARNING SIGN
	AS REQ'D.		WIRE, RISER, #6 COPPER, LENGTH AS REQ'D.

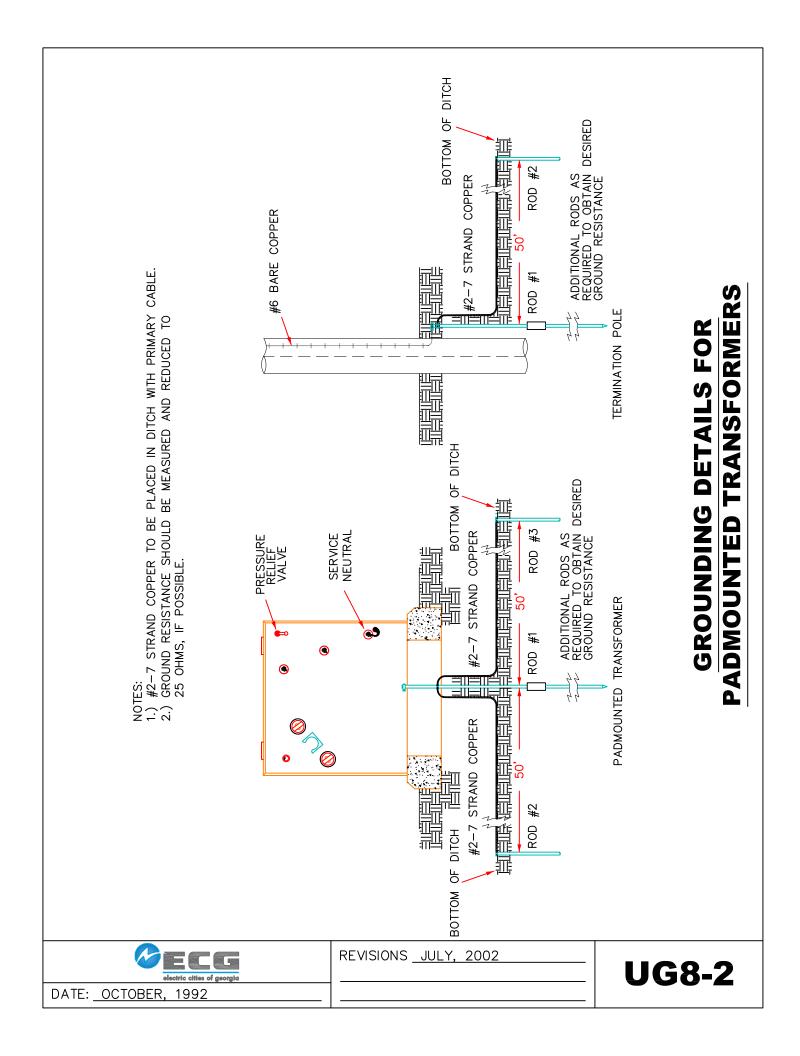


ELECTRIC CITIES OF GEORGIA

SINGLE PHASE PADMOUNTED TRANSFORMER CONNECTION DETAILS, LOOP FEED

ITEM	QUANTITY	STOCK NO.	MATERIAL	
	AS REQ'D.		#2, 7 STRAND BARE COPPER, AS REQ'D.	
	2		BUSHING INSERT	
	1		CAP, INSULATED BUSHING	
	2		CONNECTOR, ELBOW, SIZE AS REQ'D.	
	2		CONNECTOR, SECONDARY, HOT LEG INS.,	
			TYPE AND SIZE AS REQ'D.	
	1		CONNECTOR, SECONDARY, NEUTRAL.,	
			TYPE AND SIZE AS REQ'D.	
	1		FAULT INDICATOR	
	2		LUG, TRANSFORMER GROUNDING	
	1		PADLOCK	
	1		TAG, CABLE, PRIMARY	
	1		TAG, CABLE, SERVICE	
	1		TRANSFORMER, SINGLE PHASE,	
			PADMOUNTED, SIZE AS REQ'D.	
	1		WARNING SIGN	
	AS REQ'D.		WIRE, RISER, #6 COPPER, LENGTH AS REQ'D.	

ENTRANCE ZONE PRIMARY NOTE: IF PAD IS NOT LOCATED OVER MAIN PRIMARY TRENCH, CABLE SHOULD STILL ENTER PAD TO ACCOMMODATE ARRANGEMENT SHOWN IN FRONT VIEW UNDERGROUND CABLE ENTRANCE ARRANGEMENT FOR SINGLE PHASE PADMOUNTED TRANSFORMER SINGLE PHASE PAD CABLE — ENTRANCE ZONES TOP VIEW SECONDARY ENTRANCE ZONE 36" TO 48" DEPTH CABLE ARRANGEMENT IN SINGLE PHASE LOOP FEED PADMOUNTED TRANSFORMER FRONT VIEW REVISIONS JULY, 2001 **UG8-1** DATE: OCTOBER, 1992

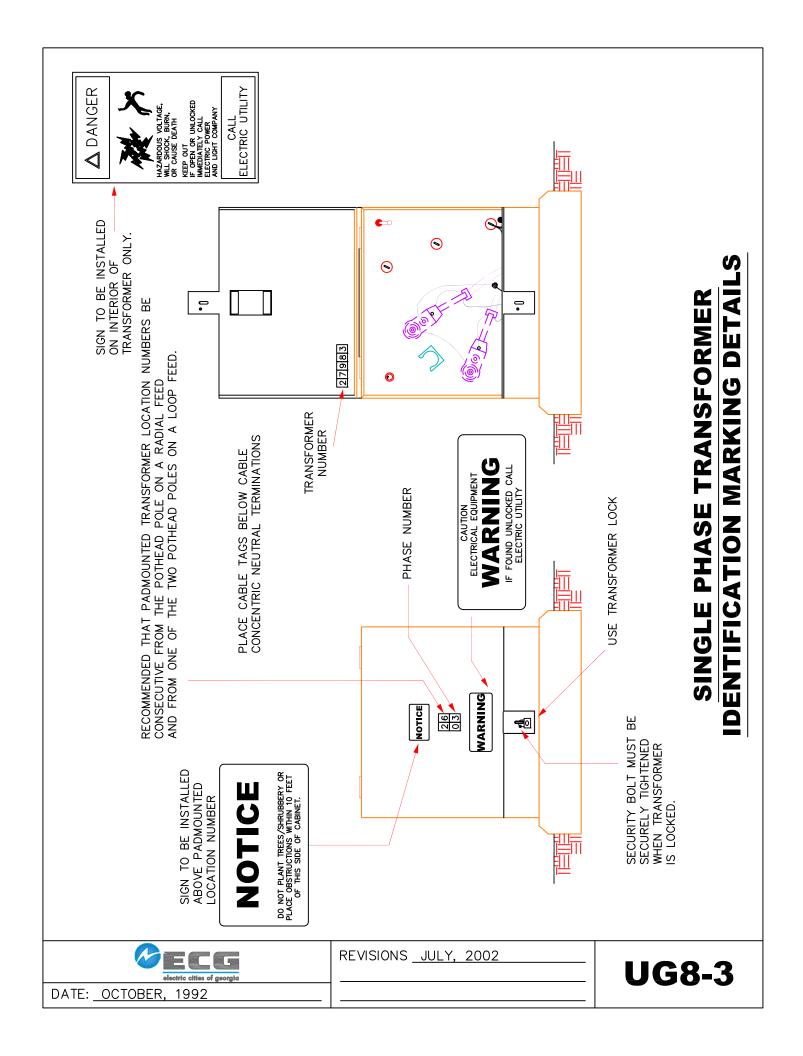


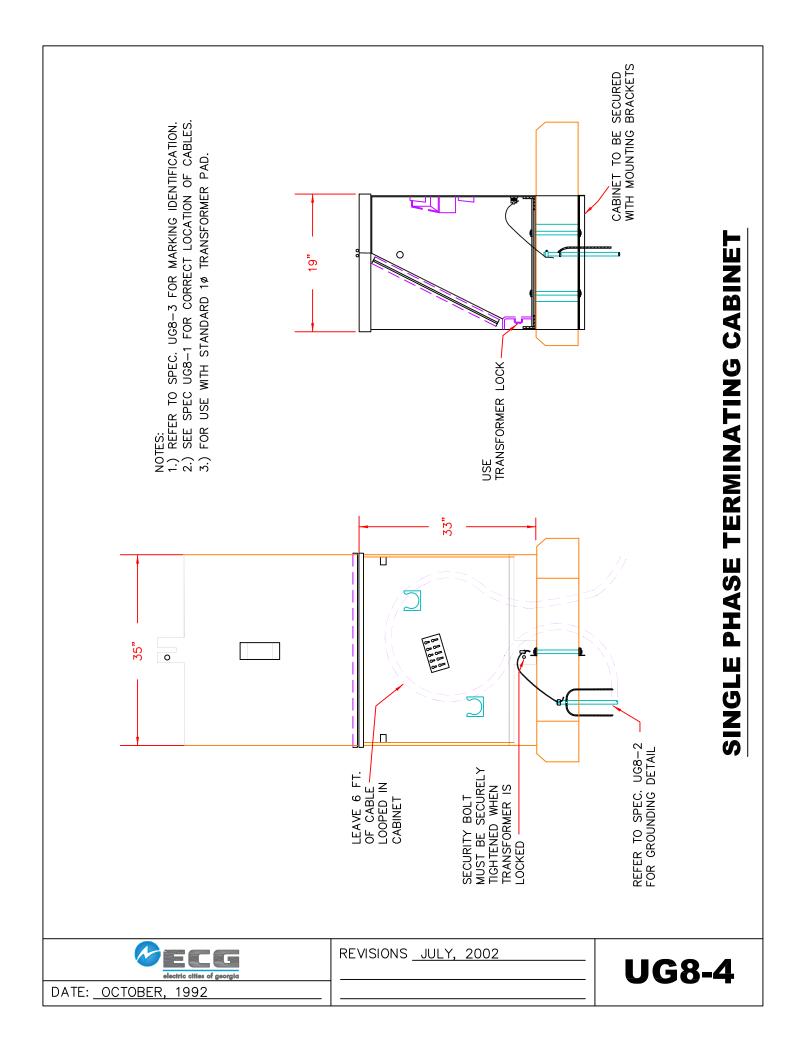
ELECTRIC CITIES OF GEORGIA

GROUNDING DETAILS FOR PADMOUNTED TRANSFORMERS

UG8-2

ITEM	QUANTITY	STOCK No.	MATERIAL
	AS REQ'D.		#2, 7-STRAND BARE COPPER, AS REQ'D.
	3		CLAMP, GROUND RODBUSHING INSERT
	3		GROUND ROD, 5/8" X 10'



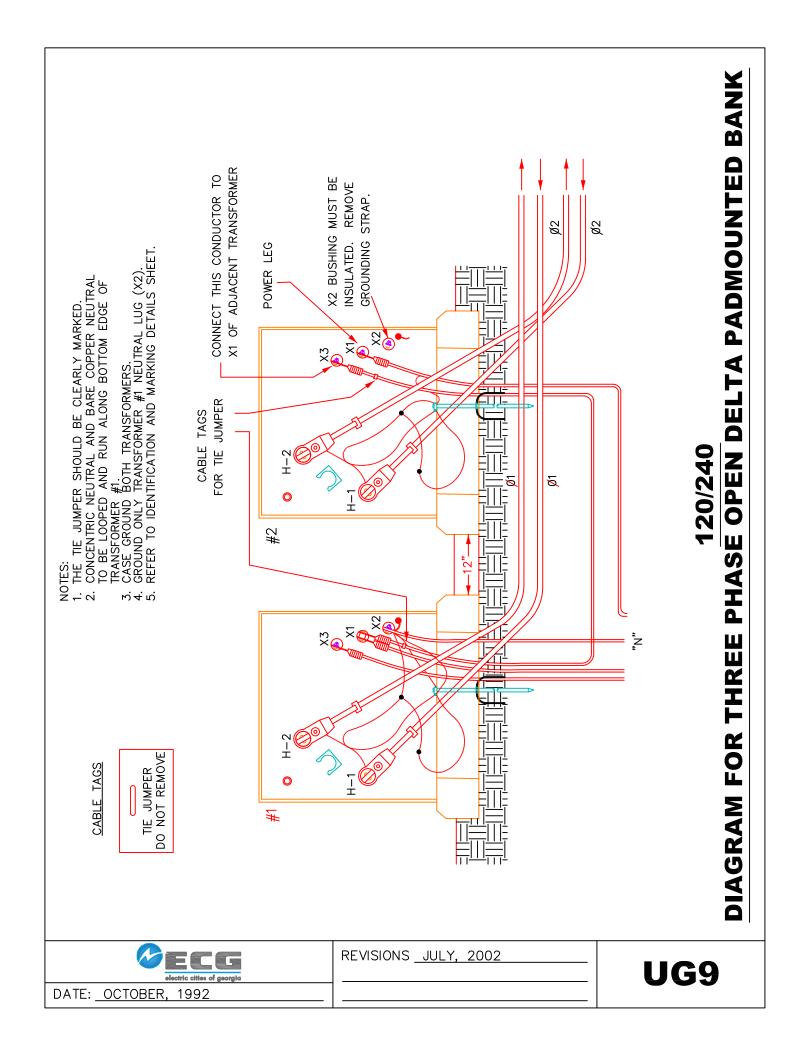


ELECTRIC CITIES OF GEORGIA

SINGLE PHASE TERMINATING CABINET

UG8-4

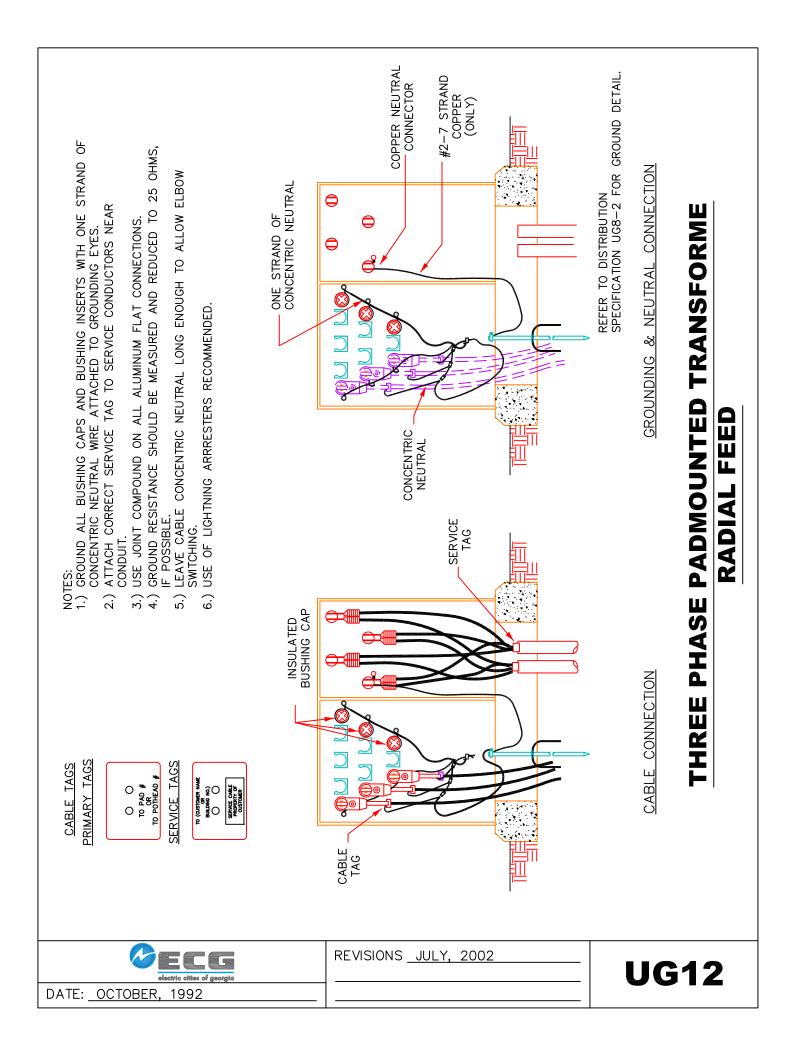
ITEM	QUANTITY	STOCK No.	MATERIAL
	1		CABINET, TERMINATING, SINGLE PHASE
	1		CONCRETE PAD, SINGLE PHASE
	1		PADLOCK
	1		WARNING SIGN



ELECTRIC CITIES OF GEORGIA

120/240 DIAGRAM FOR THREE PHASE OPEN DELTA PADMOUNTED BANK

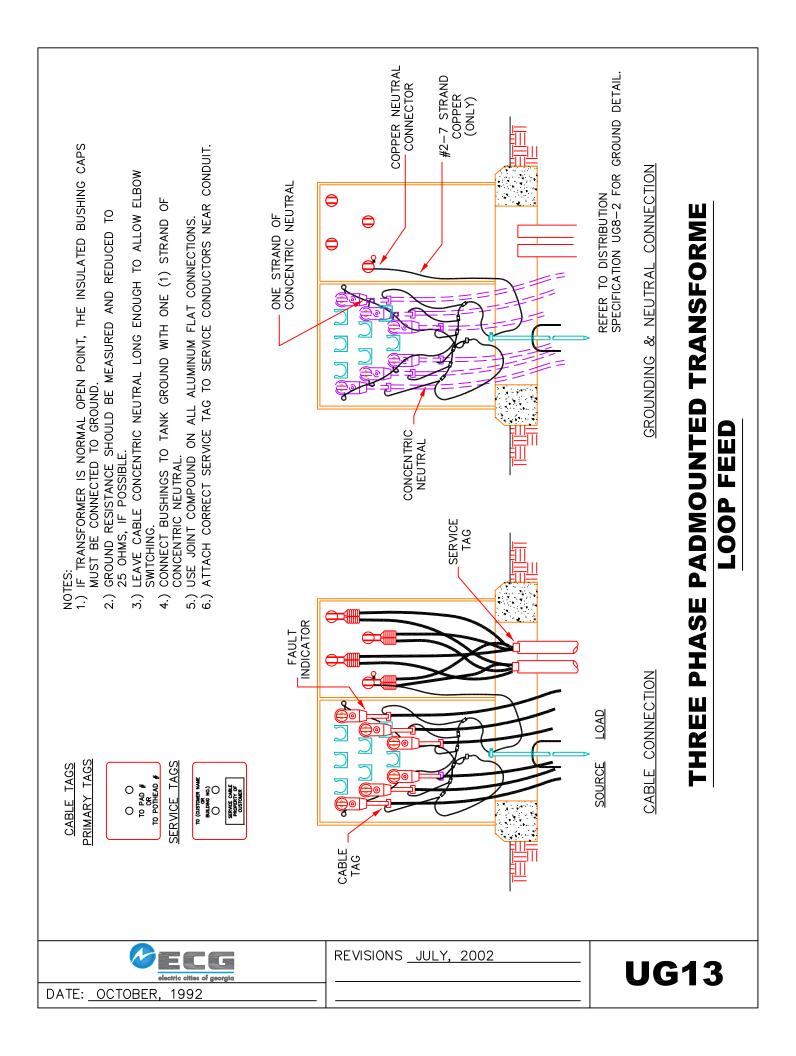
ITEM	QUANTITY	STOCK NO.	MATERIAL
	AS REQ'D		#2, 7 STRAND BARE COPPER, AS REQ'D.
	1		CONNECTOR, SECONDARY BAR, NEUTRAL,
			SIZE AS REQ'D.
	4		CONNECTOR, SECONDARY BAR, SIZE AS REQ'D.
	4		ELBOW, LOADBREAK, SIZE AS REQ'D.
	2		FAULT INDICATOR
	4		LUG, TRANSFORMER GROUNDING
	2		PAD, 3 PHASE CONCRETE TRANSFORMER
	2		PADLOCK
	4		TAG, CABLE, PRIMARY
	2		TAG, CABLE, SERVICE
	2		TRANSFORMER, SINGLE PHASE,
			PADMOUNTED, SIZE AS REQ'D.
	2		WARNING SIGN
	AS REQ'D		WIRE, #6 COPPER. SOILD, SOFT DRAWN



ELECTRIC CITIES OF GEORGIA

THREE PHASE PADMOUNTED TRANSFORME RADIAL FEED

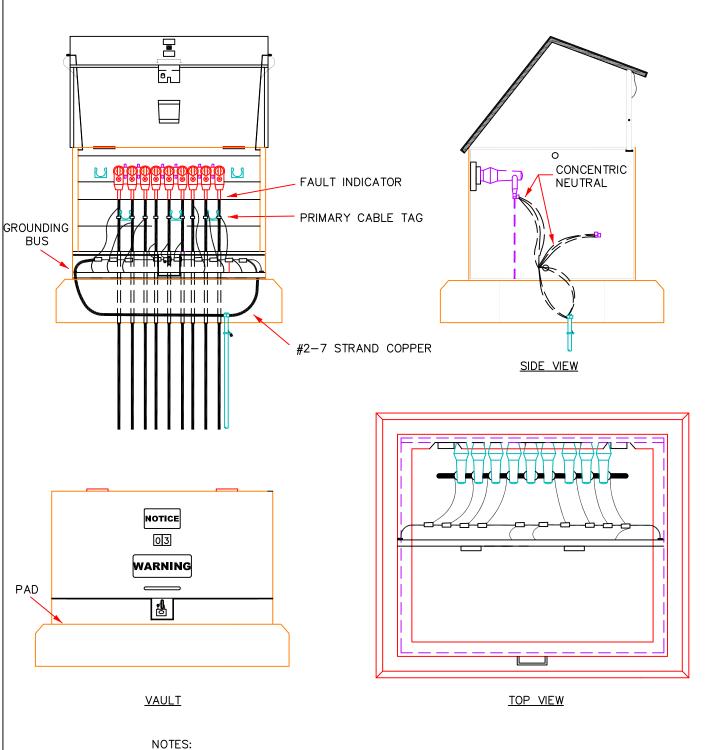
ITEM	QUANTITY	STOCK No.	MATERIAL
	AS REQ'D		#2, 7 STRAND BARE COPPER, AS REQ'D.
	AS REQ'D		BOLT, SS HEX HEAD 1/2" X 4"
	6		BUSHING INSERT
	3		CAP, INSULATED BUSHING
	3		CONNECTOR, ELBOW, SIZE AS REQ'D.
	2		LUG, TRANSFORMER GROUNDING
	AS REQ'D		NUT, SS HEX 1/2"
	1		PAD, CONCRETE, FOR 3 PHASE TRANSFORMER
	1		PADLOCK
	3		TAG, CABLE, PRIMARY
	AS REQ'D		TAG, CABLE, SERVICE
	1		TRANSFORMER, SINGLE PHASE,
			PADMOUNTED, SIZE AS REQ'D.
	1		WARNING SIGN
	AS REQ'D		WIRE, #6 COPPER. SOILD, SOFT DRAWN



ELECTRIC CITIES OF GEORGIA

THREE PHASE PADMOUNTED TRANSFORME LOOP FEED

ITEM	QUANTITY	STOCK NO.	MATERIAL
	AS REQ'D		#2, 7 STRAND BARE COPPER, AS REQ'D.
	1		BOLT, SS HEX HEAD 1/2" X 4"
	6		BUSHING INSERT
	6		CONNECTOR, ELBOW, SIZE AS REQ'D.
	3		FAULT INDICATOR
	3		CAP, INSULATED BUSHING
	2		LUG, TRANSFORMER GROUNDING
	AS REQ'D		NUT, SS HEX 1/2"
	1		PAD, CONCRETE, FOR 3 PHASE TRANSFORMER
	1		PADLOCK
	6		TAG, CABLE, PRIMARY
	AS REQ'D		TAG, CABLE, SERVICE
	1		TRANSFORMER, THREE PHASE,
			PADMOUNTED, SIZE AS REQ'D.
	1		WARNING SIGN
	AS REQ'D		WASHER, 1/2", FLAT
	AS REQ'D		WASHER, SS LOCK 1/2"



- 1.) FOR USE WITH THREE PHASE TERMINATING CABINET PAD OR GROUND SLEEVE
- 2.) REFER TO SPEC. UG8-2 FOR GROUND DETAIL.
- 3.) CABINET TO BE BOLTED TO CONCRETE PAD IF USED.

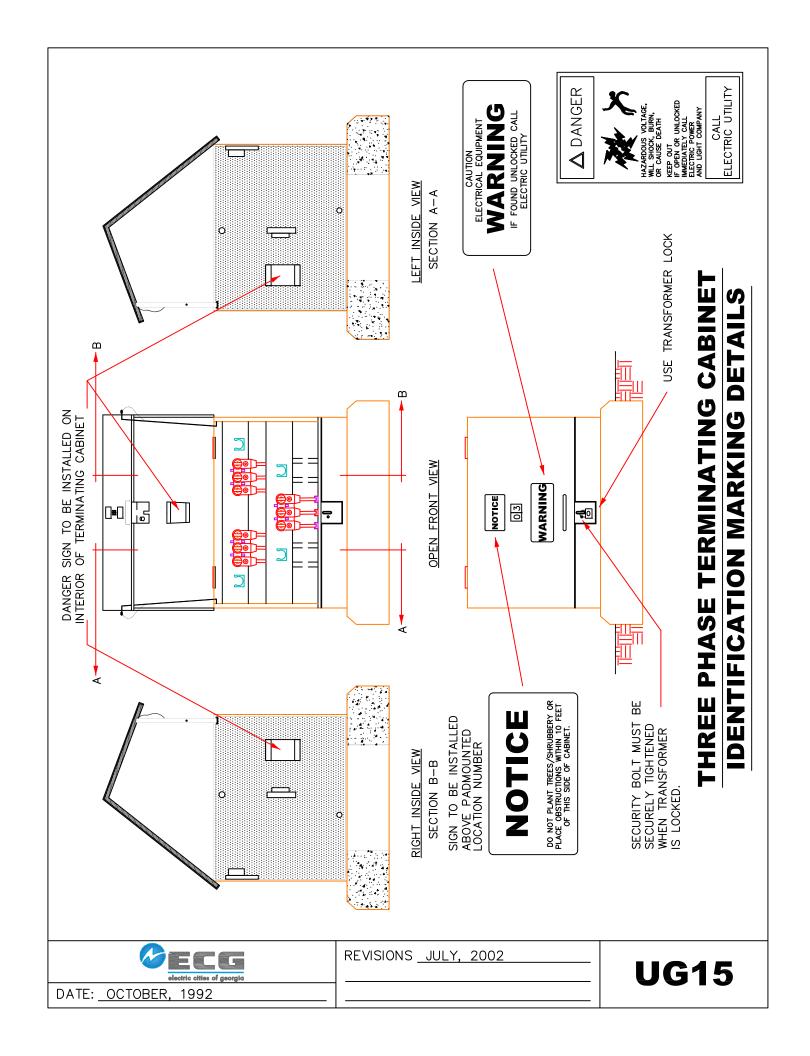
THREE PHASE TERMINATING CABINET

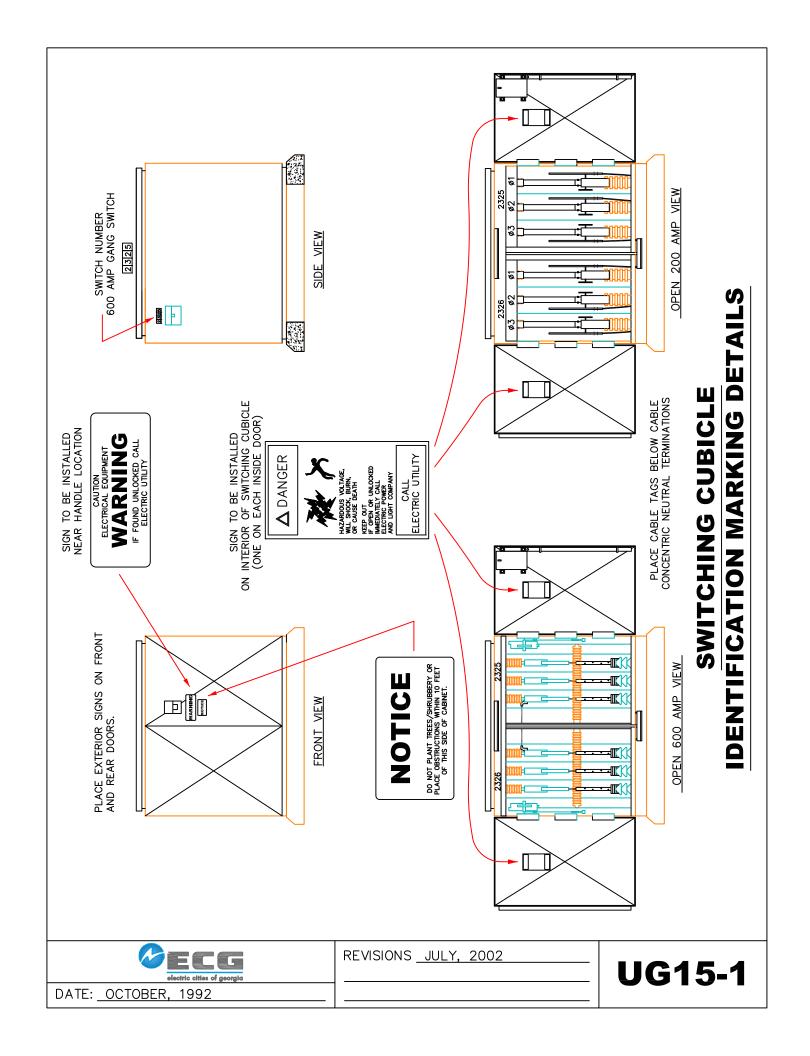
€ ECG	REVISIONS JULY, 2002	
electric cities of georgia		
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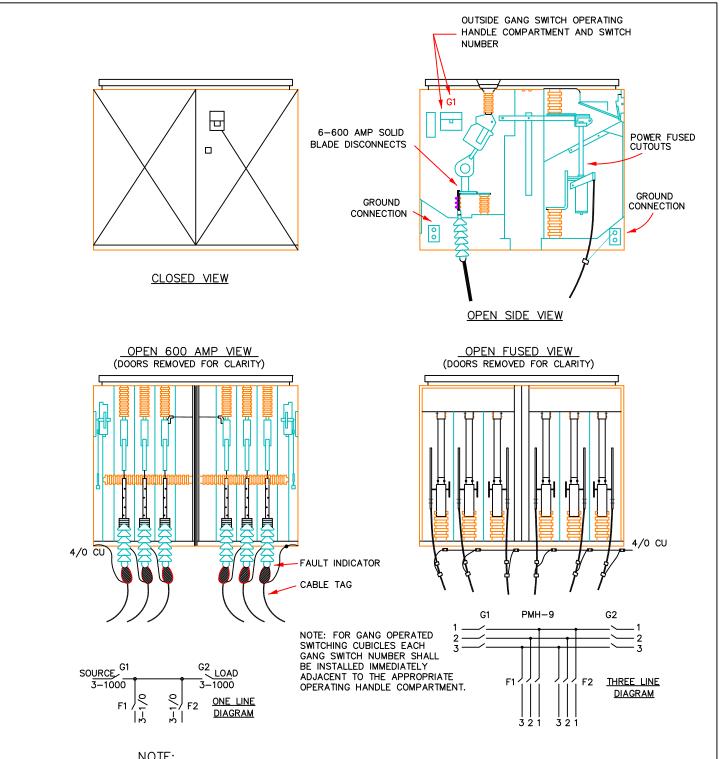
ELECTRIC CITIES OF GEORGIA

THREE PHASE TERMINATING CABINET

ITEM	QUANTITY	STOCK NO.	MATERIAL
	4		BOLT, SS HEX HEAD 1/2" X 4"
	1		CONNECTOR, ELBOW, SIZE AS REQ'D.
	3		FAULT INDICATOR
	2		LUG, TRANSFORMER GROUNDING
	4		NUT, SS HEX 1/2"
	1		PAD LOCK
	AS REQ'D		TAG, CABLE, PRIMARY
	1		WARNING SIGN
	8		WASHER, 1/2", FLAT
	4		WASHER, SS LOCK 1/2"







NOTE: CAN BE USED WITH VAULT (PREFERRED) OR GROUND SLEEVE.

PADMOUNTED SWITCHING CUBICLE FOR 15 KV THREE PHASE PRIMARY GANG - OPERATED 600 AMP DISCONNECTS WITH FUSED TAPS

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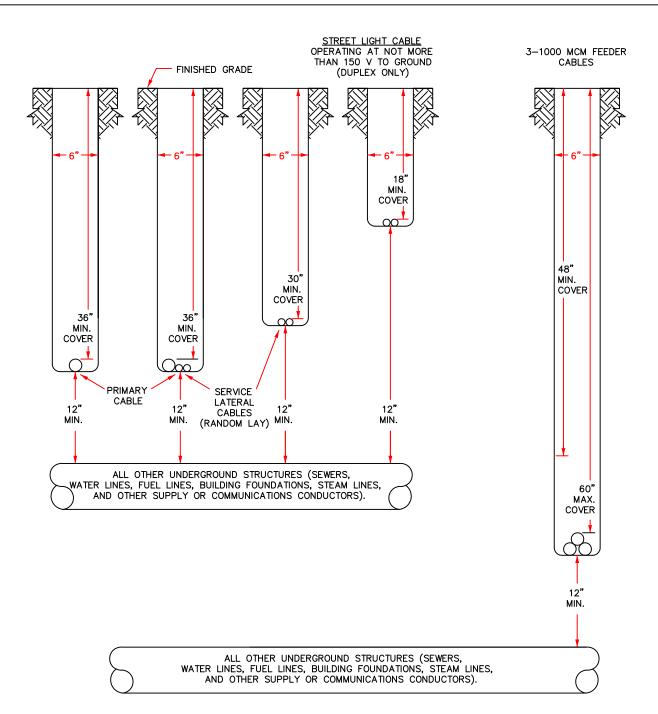
UG16

ELECTRIC CITIES OF GEORGIA

PADMOUNTED SWITCHING CUBICLE FOR 15 KV THREE PHASE PRIMARY GANG - OPERATED 600 AMP DISCONNECTS WITH FUSED TAPS

UG16

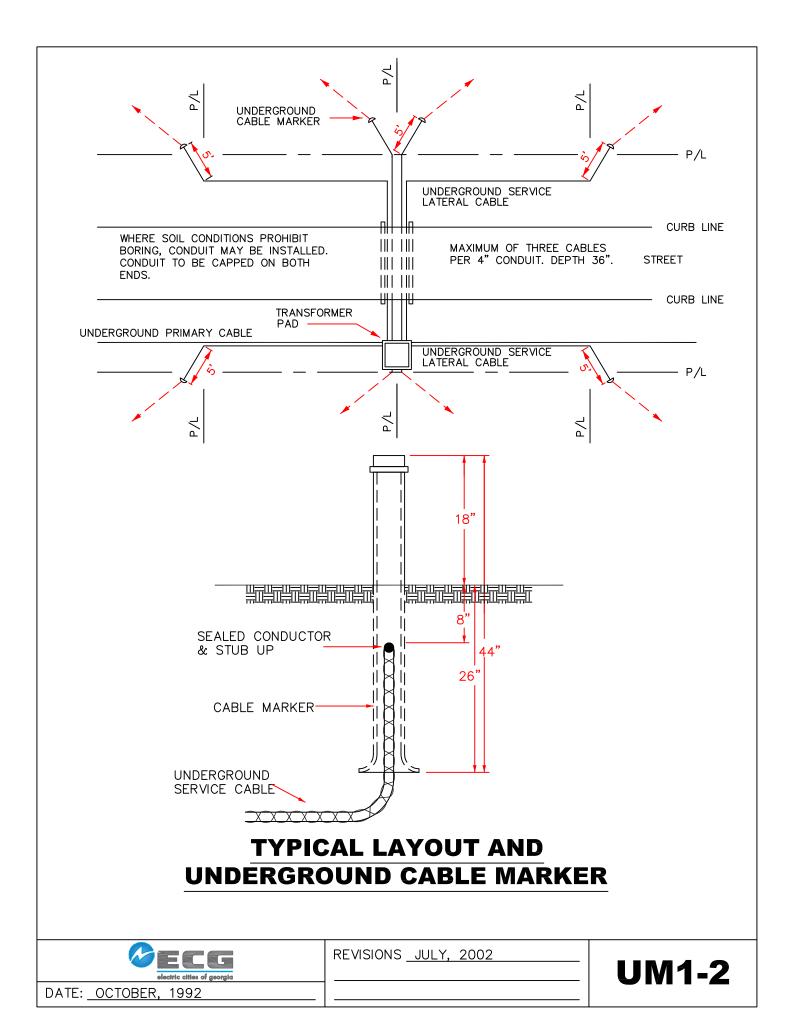
ITEM	QUANTITY	STOCK NO.	MATERIAL
	4		ROD, GROUND, 5/8" X 10'
	25		FT. WIRE, #2 7 STR. BARE CU
	30		FT. WIRE, 4/0 S.D. 7 STR. BARE CU
	1		ENCLOSURE, PMH-19, 15 KV, AUTOMATIC
	4		CLAMP, 5/8" GROUND ROD
	2		CONN, SPLIT BOLT, C 2/0-250/ 8-250
	2		CONN, 2 HOLE BOLT ON, 4-1/0-250 MCM
	12		TERMINATOR SIZE AS REQURIED

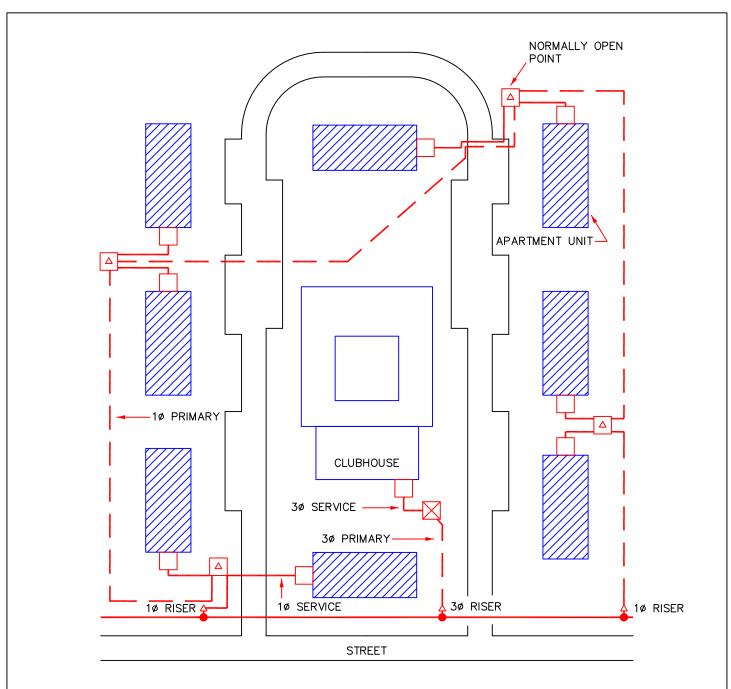


- 1. 12" ADJACENT TO 1000 MCM CABLES WILL BE TAMPED TO 95% COMPACTION.
- 2. RUNS OF 1000 MCM CABLE FED FROM DIFFERENT CIRCUIT BREAKERS SHOULD BE INSTALLED IN SEPARATE TRENCHES.
- 3. 12" MIN. CLEARANCE APPLIES TO BOTH VERTICAL AND HORIZONTAL DIRECTIONS.

UNDERGROUND CABLE LAY IN TRENCH

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- TRANSFORMER SINGLE PHASE
- TRANSFORMER THREE PHASE
- METER LOCATION

UNDERGROUND SERVICE TO TYPICAL APARTMENT COMPLEX

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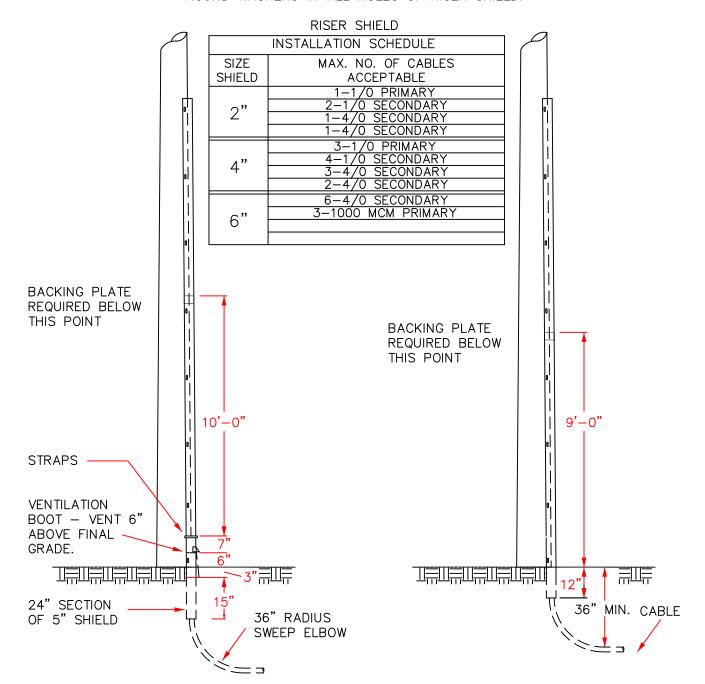
REVISIONS JULY, 2002

UM1-3

<u>6" PVC VENTED RISER</u> SHIELD

2" OR 4" PVC RISER SHIELD

NOTE: USE $(1/4" \times 2-1/2")$ LAG SCREWS WITH ROUND WASHERS IN ALL HOLES OF RISER SHIELD.

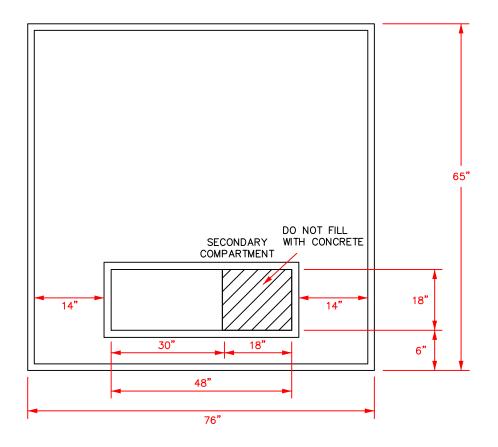


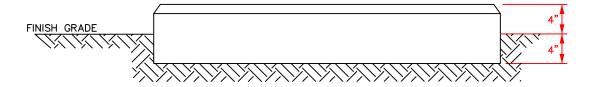
POLE RISER SHIELD INSTALLATION

electric	cities of	georgia

REVISIONS JULY, 2002

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- 1. SERVICE DUCT SHALL BE LOCATED IN THE EXTREME RIGHT SIDE OF THE SECONDARY COMPARTMENT.
- 2. THE PAD SHALL HAVE A MINIMUM CLEARANCE OF 10' FROM ALL BUILDINGS TO PROVIDE SUFFICIENT COOLING. A MINIMUM CLEARANCE OF 3' SHALL BE MAINTAINED FROM ALL OBSTRUCTIONS.

 3. REINFORCE WITH #4 BARS WITH A 12"X12" GRID 4" BELOW TOP OF PAD.
- 4. CONCRETE SHALL"HAVE A MINIMUM ULTIMATE 28 DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 3,000 POUNDS. PAD SHALL BE CURED NOT LESS THAN 72 HOURS.

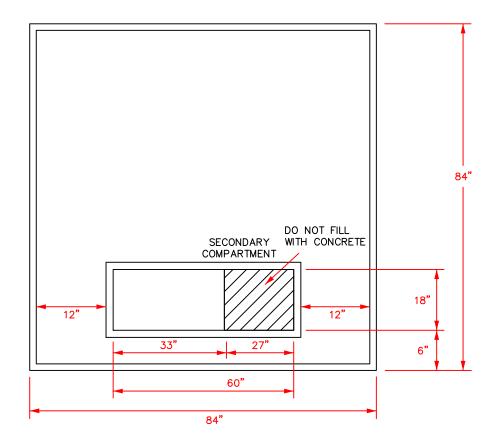
STANDARD PAD FOR 75 - 1000 KVA RADIAL OR **LOOP FEED PADMOUNTED TRANSFORMER**

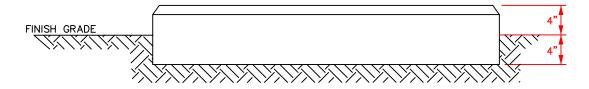
electric cities of georgia	REVISIONS JULY, 2002	UM1-5
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ELECTRIC CITIES OF GEORGIA

STANDARD PAD FOR 75 - 1000 KVA RADIAL OR LOOP FEED PADMOUNTED TRANSFORMER

ITEM	QUANTITY	STOCK NO.	MATERIAL
	1		PAD, 3 PHASE CONCRETE TRANSFORMER 65" X 76"





- 1. SERVICE DUCT SHALL BE LOCATED IN THE EXTREME RIGHT SIDE OF THE SECONDARY COMPARTMENT.
- 2. THE PAD SHALL HAVE A MINIMUM CLEARANCE OF 10' FROM ALL BUILDINGS TO PROVIDE SUFFICIENT COOLING. A MINIMUM CLEARANCE OF 3' SHALL BE MAINTAINED FROM ALL OBSTRUCTIONS.

 3. REINFORCE WITH #4 BARS WITH A 12"X12" GRID 4" BELOW TOP OF PAD.
- 4. CONCRETE SHALL"HAVE A MINIMUM ULTIMATE 28 DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 3,000 POUNDS. PAD SHALL BE CURED NOT LESS THAN 72 HOURS.

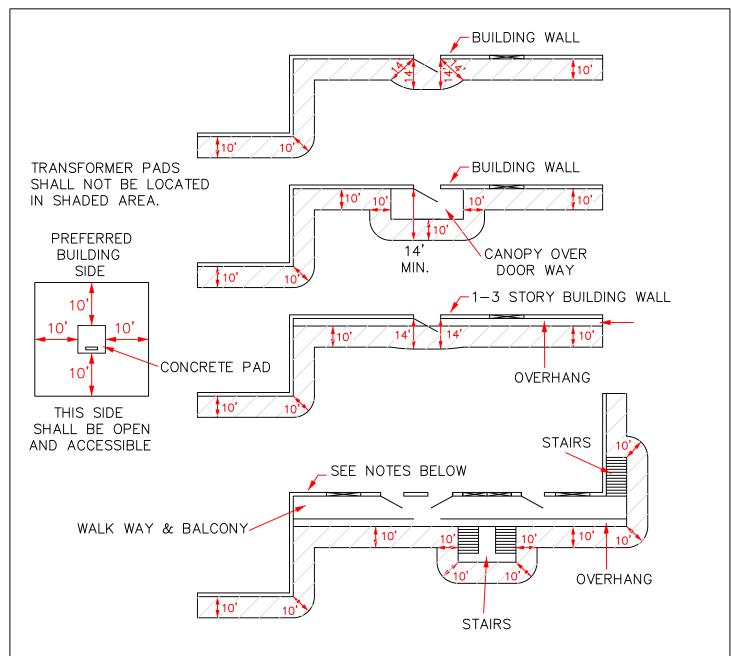
STANDARD PAD FOR 1000 - 2500 KVA RADIAL OR **LOOP FEED PADMOUNTED TRANSFORMER**

electric cities of georgia	REVISIONS JULY, 2002	UM1-6
DATE: OCTOBER, 1992		

ELECTRIC CITIES OF GEORGIA

STANDARD PAD FOR 1000 - 2500 KVA RADIAL OR LOOP FEED PADMOUNTED TRANSFORMER

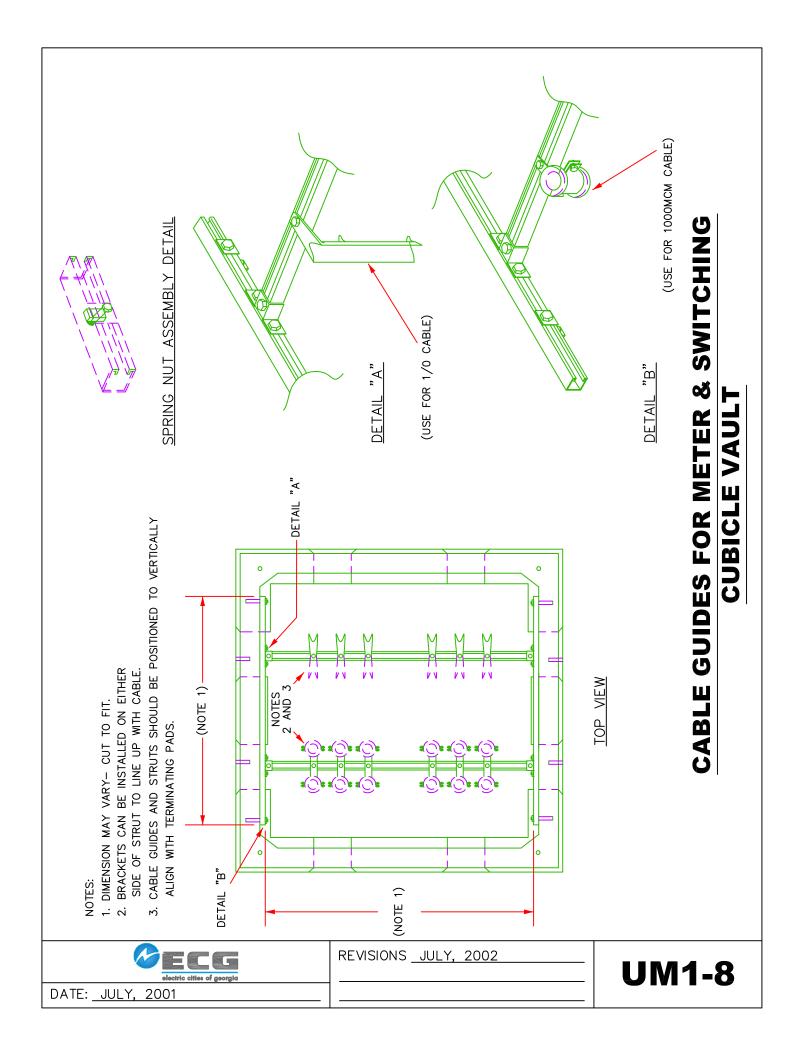
TEM	QUANTIY	STOCK NO.	MATERIAL
	1		PAD, 3 PHASE CONCRETE TRANSFORMER 84" X 84"



- 1. THE STANDARD PAD LOCATION SHALL BE 10 FEET FROM THE BUILDING WALL.
- 2. EDGE OF PAD SHALL BE NO LESS THAN 14 FEET FROM DOORWAY.
- 3. EDGE OF PAD SHALL BE NO LESS THAN 10 FEET FROM WINDOWS OR OTHER OPENINGS.
- 4. IF THE BUILDING HAS AN OVERHANG AND IS 3 OR LESS FLOORS IN HEIGHT ABOVE THE GROUND, THE 10 FEET CLEARANCE IS MEASURED FROM A POINT BELOW THE EDGE OF THE OVERHANG.
- 5. IF THE BUILDING HAS AN OVERHANG AND IS 4 OR MORE FLOORS IN HEIGHT ABOVE THE GROUND, THE 10 FEET CLEARANCE MAY BE MEASURED FROM THE BUILDING WALL.
- 6. FIRE ESCAPES, OUTSIDE STAIRS, AND COVERED WALK WAYS ATTACHED TO OR BETWEEN BUILDINGS SHALL BE CONSIDERED AS PART OF THE BUILDING.
- 7. ALWAYS MAINTAIN 10 FEET OF CLEARANCE IN FRONT OF THE PAD.

TRANSFORMER CLEARANCE FROM BUILDINGS

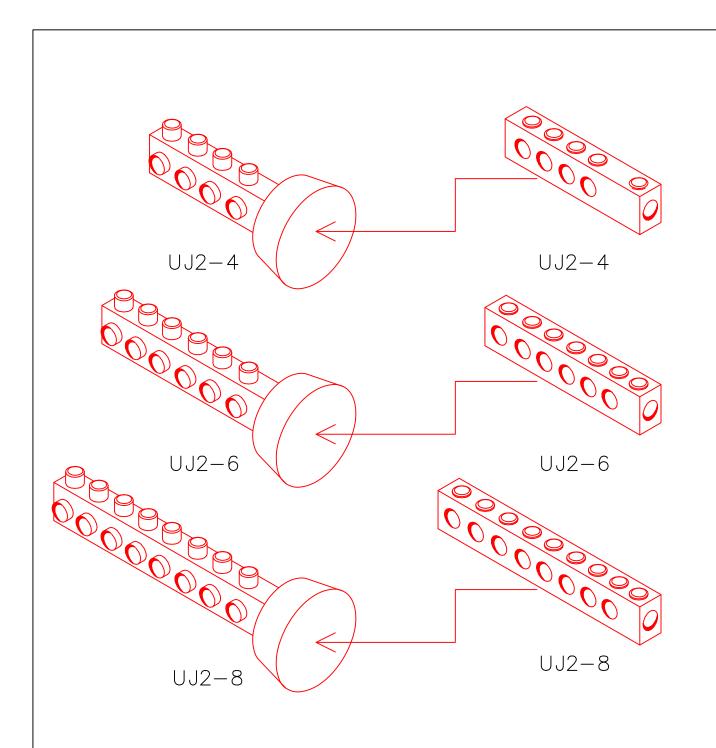
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DATE: OCTOBER, 1992		



ELECTRIC CITIES OF GEORGIA

CABLE GUIDES FOR METER & SWITCHING CUBICLE VAULT

ITEM	QUANTITY	STOCK NO.	MATERIAL
			CHANNEL STRUT SYSTEM 20' LENGTH
			CABLE SUPPORT GUIDES (SIZE/QTY. AS REQ.)



UJ2-4 THRU UJ2-8 TRANSFORMER SECONDARY CONNECTOR BARS

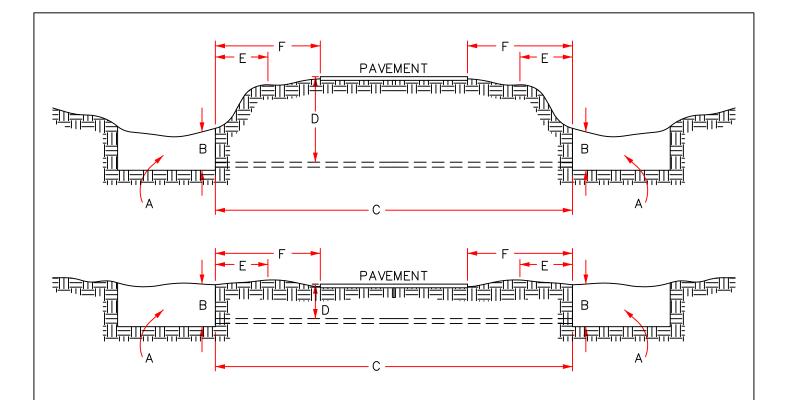
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ELECTRIC CITIES OF GEORGIA

UJ2-4 THRU UJ2-8 TRANSFORMER SECONDARY CONNECTOR BARS

ITEM	OUANTITY	STOCK NO.	MATERIAL
UL2-4	2		TERM, AL SECONDARY INS. 4 COND 6-250
UJ2-4	1		TERM, AL SECONDARY N/I 4 COND 6-250
UJ2-6	2		TERM, AL SECONDARY INS. 6 COND 6-250
UJ2-6	1		TERM, AL SECONDARY N/I 6 COND 6-250
UJ2-8	2		TERM, AL SECONDARY INS. 8 COND 6-250
UJ2-8	1		TERM, AL SECONDARY N/I 8 COND 6-250



- I. CONDUIT SHALL BE USED WHEN:
 - 1. EXPANDED OPENING IS LARGER THAN 6".
 - 2. BORING MACHINE IS USED WHICH REMOVES DIRT AS IT BORES.
 - 3. WHEN FIELD CONDITIONS EXIST THAT MAKE CONDUIT APPLICABLE.

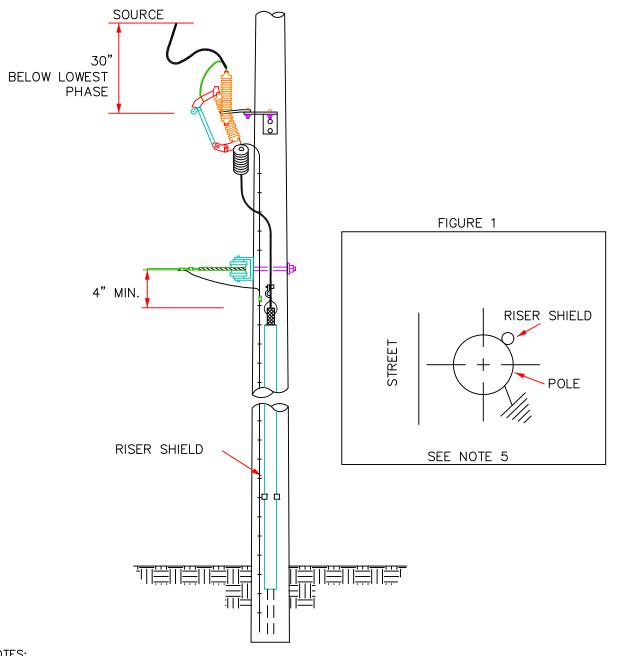
NOTE: CONDUIT MAY BE PVC MATERIAL.

II. DIMENSIONS

- A. PIT FOR MACHINE INSTALLATION EQUIPMENT.
- B. 3' MINIMUM 5' MAXIMUM.
- C. FOR ACCURACY, 50' MAXIMUM LENGTH IS RECOMMENDED. (SEE DIMENSIONS E & F)
- D. MINIMUM 4'.
- E. SHALL NOT BE LESS THAN "D".
- F. MINIMUM 10' FROM PAVEMENT OR PAVED SHOULDER.
- NOTE: 1. ON CONVENTIONAL HIGHWAYS (IF CONDUIT IS REQUIRED), CONDUIT SHALL BE INSTALLED ON THE FIELD SIDE OF DITCH OR CURB.
 - 2. ON INTERSTATES AND FREEWAYS (IF CONDUIT IS REQUIRED), CONDUIT SHALL BE ON FIELD SIDE OF FENCE UNDER FRONTAGE ROADS, AND ON FIELD SIDE OF DITCH ON FRONTAGE ROADS.
 - 3. ABOVE DIMENSIONS APPLY TO INSTALLATIONS WITH OR WITHOUT CONDUITS.
 - 4. OPENING SHOULD BE SIZED AS CLOSE AS POSSIBLE TO CONDUCTOR SIZE.

UNDERGROUND HIGWAY CROSSINGS

<i>⊗</i>ECG	REVISIONS JULY, 2002	UM1-10
DATE: OCTOBER, 1992		Olal 1-10



- 1. TOTAL ARRESTER LEAD LENGTH MUST BE KEPT AS SHORT AS POSSIBLE.
- 2. NO BENDS PERMITTED WITHIN 6" OF TERMINATION.
- 3. ALLOW MINIMUM CABLE SLACK OF 24" AT BOTTOM OF RISER.
- 4. DO NOT USE CUTOUT TO ESTABLISH NORMAL OPEN POINT.
- 5. INSTALL RISER SHIELD IN QUADRANT OF POLE AWAY FROM TRAFFIC FLOW (SEE FIGURE 1).

SINGLE PHASE **OVERHEAD TO UNDERGROUND TERMINATION**



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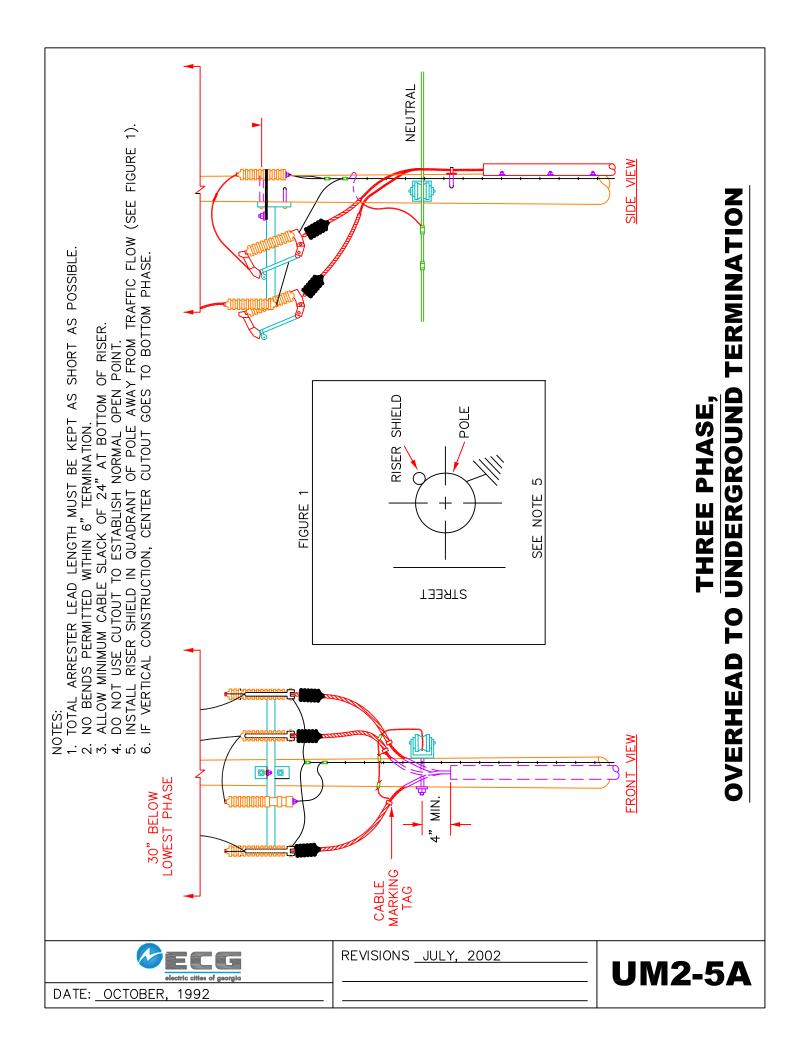
UM2

ELECTRIC CITIES OF GEORGIA

SINGLE PHASE OVERHEAD TO UNDERGROUND TERMINATION

UM2

ITEM	QUANTITY	STOCK NO.	MATERIAL
	1		ARRESTER, RISER POLE
	1		BRACKET, CUTOUT & ARRESTER, T-HANGER
	AS REQ'D.		CABLE RISER SHIELD, SIZE AS REQ'D.
	1		CLAMP, HOT LINE
	1		ситоит
	1		GRIP, CABLE, SIZE AS REQ'D.
	1		J-HOOK
	1		NUT, LOCK, 5/8"
	1		SCREW, LAG 1/2" X 4"
	AS REQ'D.		SCREW, LAG, SMALL FOR RISER GUARD
	1		STIRRUP, SIZE AS REQ'D.
	1		TERMINATION KIT FOR UNDERGROUND WIRE,
			SIZE AS REQ'D.
	1		WASHER, SQUARE 2-1/2" X 2-1/2"
	AS REQ'D.		WIRE, RISER, #6 COPPER, LENGTH AS REQ'D.

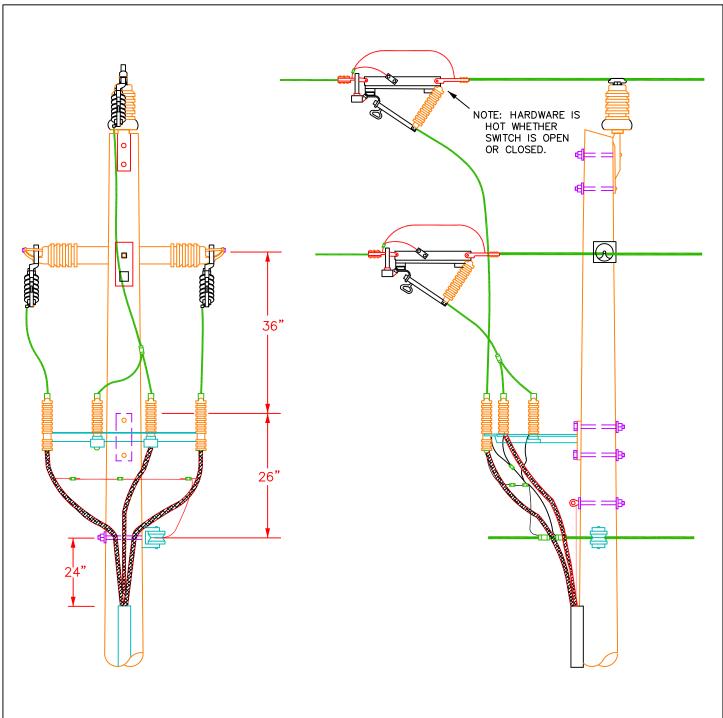


ELECTRIC CITIES OF GEORGIA

THREE PHASE, OVERHEAD TO UNDERGROUND TERMINATION

UM2-5A

ITEM	QUANTITY	STOCK NO.	MATERIAL
	3		ARRESTER, RISER POLE
	1		BOLT, EYE, 5/8", LENGTH AS REQ'D.
	1		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	1		BRACKET, 3-PHASE ARRESTER & CUTOUT
	AS REQ'D.		CABLE RISER SHIELD, SIZE AS REQ'D.
	3		ситоит
	3		GRIP, CABLE, SIZE AS REQ'D.
	1		GUARD, RISER GUARD, BOOT, SIZE AS REQ'D.
	1		NUT, LOCK, 5/8"
	1		SCREW, LAG 1/2" X 4"
	1		SCREW, LAG, 5/8" X 6"
	AS REQ'D.		SCREW, LAG, SMALL FOR RISER GUARD
	1		SHACKLE, ANCHOR
	3		TERMINATION KIT FOR UNDERGROUND WIRE,
			SIZE AS REQ'D.
	2		WASHER, SQUARE 2-1/2" X 2-1/2"



NOTE: MATERIAL FOR POLE AND OVERHEAD PRIMARY NOT INCLUDED IN MATERIAL LIST.

THREE PHASE, OVERHEAD TO UNDERGROUND FEEDER TERMINATION

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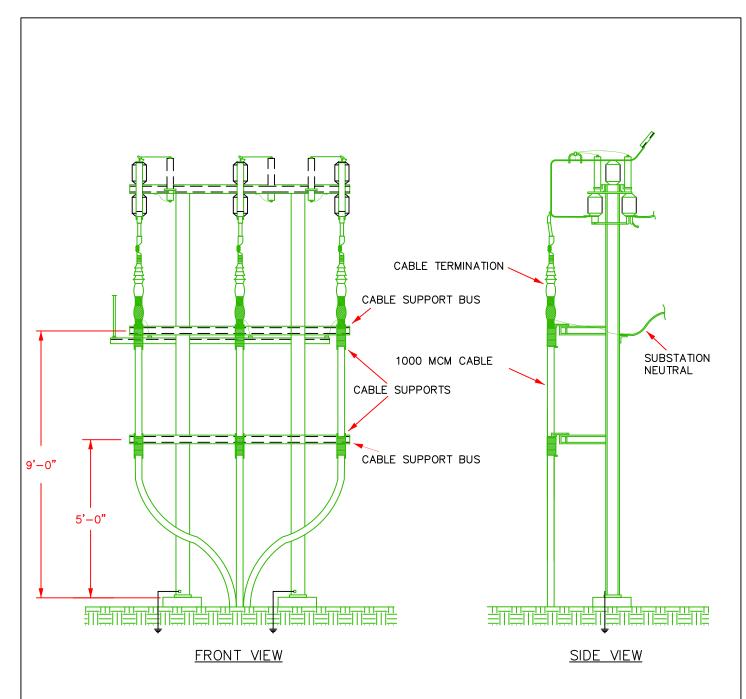
UM2-7A

ELECTRIC CITIES OF GEORGIA

THREE PHASE, OVERHEAD TO UNDERGROUND FEEDER TERMINATION

UM2-7A

ITEM	QUANTITY	STOCK NO.	MATERIAL
	3		ARRESTER, RISER POLE
	1		BOLT, EYE, 5/8", LENGTH AS REQ'D.
	2		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	1		BRACKET, 3-PHASE ARRESTER & CUTOUT
	AS REQ'D.		CABLE RISER SHIELD, SIZE AS REQ'D.
	3		CONNECTOR, LUG, 2-HOLE, SIZE AS REQ'D.
	6		DEADEND ASSEMBLY, PRIMARY
	3		GRIP, CABLE, SIZE AS REQ'D.
	3		NUT, LOCK, 5/8"
	2		SCREW, LAG 1/2" X 4"
	3		SWITCH, IN-LINE DISCONNECT, 600 AMP
	3		TERMINATION KIT FOR UNDERGROUND WIRE,
			SIZE AS REQ'D.
	3		WASHER, SQUARE 2-1/2" X 2-1/2"



1. CABLE SHALL BE BURIED 48 TO 60 INCHES.

UNDERGROUND SUBSTATION EXIT FEEDER CABLE

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DATE: <u>JULY</u>, 2001

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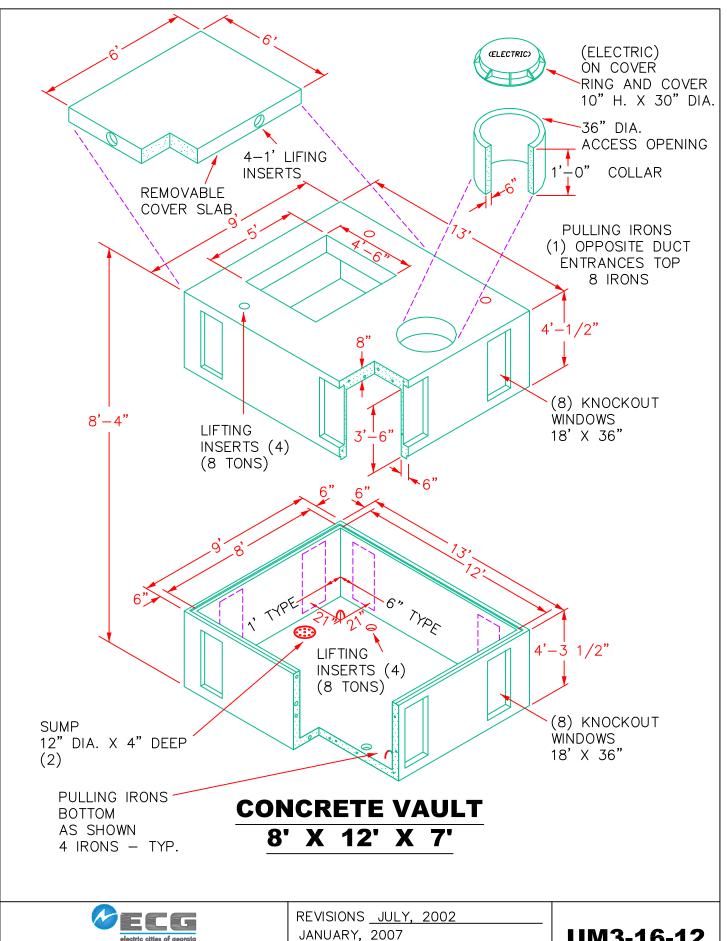
UM3

ELECTRIC CITIES OF GEORGIA

UNDERGROUND SUBSTATION EXIT FEEDER CABLE

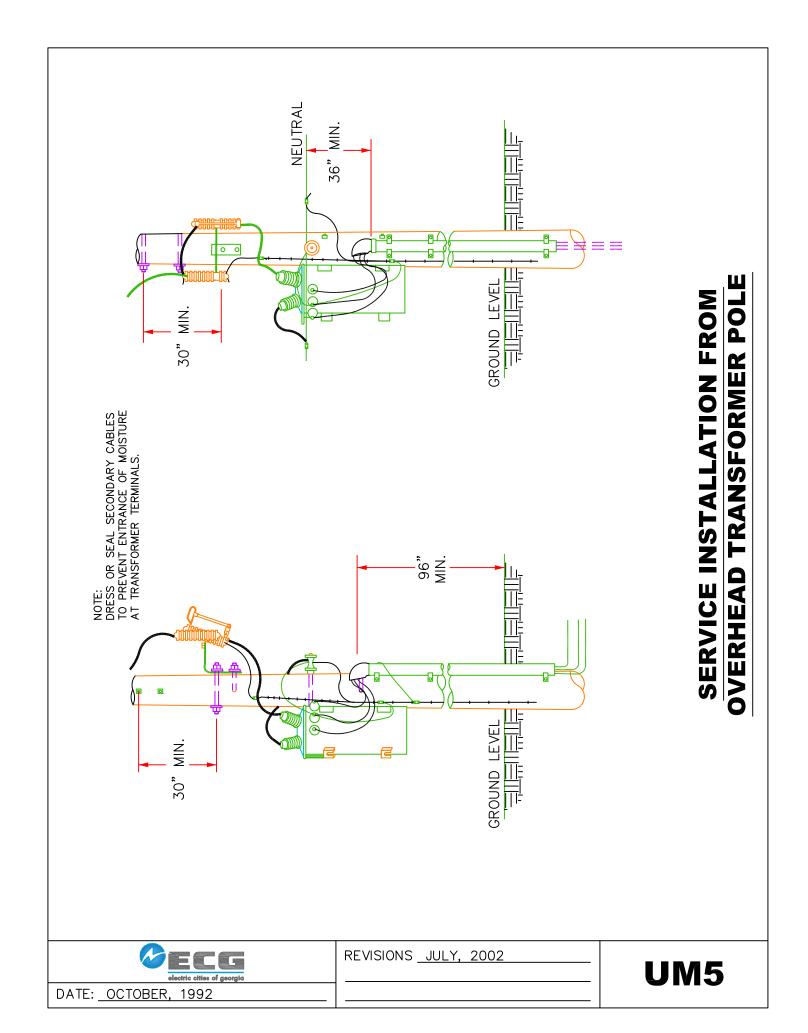
UM3

ITEM	QUANTITY	STOCK NO.	MATERIAL
	6		CABLE SUPPORT FOR UG TERMINATIONS
	3		TERMINATION KIT FOR UNDERGROUND WIRE,
			SIZE AS REQ'D.



DATE: OCTOBER, 1992

UM3-16-12

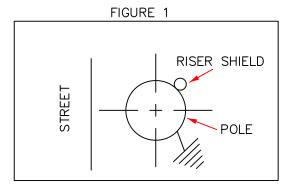


ELECTRIC CITIES OF GEORGIA

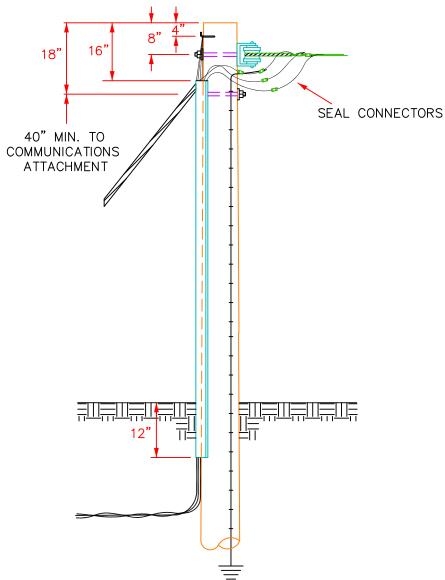
SERVICE INSTALLATION FROM OVERHEAD TRANSFORMER POLE

UM5

ITEM	QUANTITY	STOCK NO.	MATERIAL
	AS REQ'D		CABLE RISER SHIELD, SIZE AS REQ'D.
	3		GRIP, CABLE, SIZE AS REQ'D.
	1		J-HOOK
	AS REQ'D		SCREW, LAG, SMALL FOR RISER GUARD



PLACE POLE GROUND AND RISER SHIELD ON BACK OF POLE ON OPPOSITE QUARTERS WITH RISER SHIELD AWAY FROM TRAFFIC (SEE FIGURE 1).

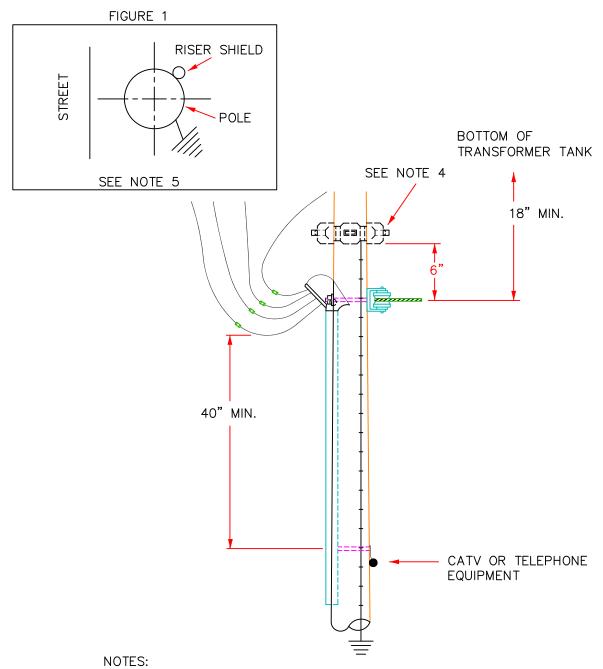


TYPICAL UNDERGROUND SERVICE INSTALLATION FROM OVERHEAD SERVICE POLE



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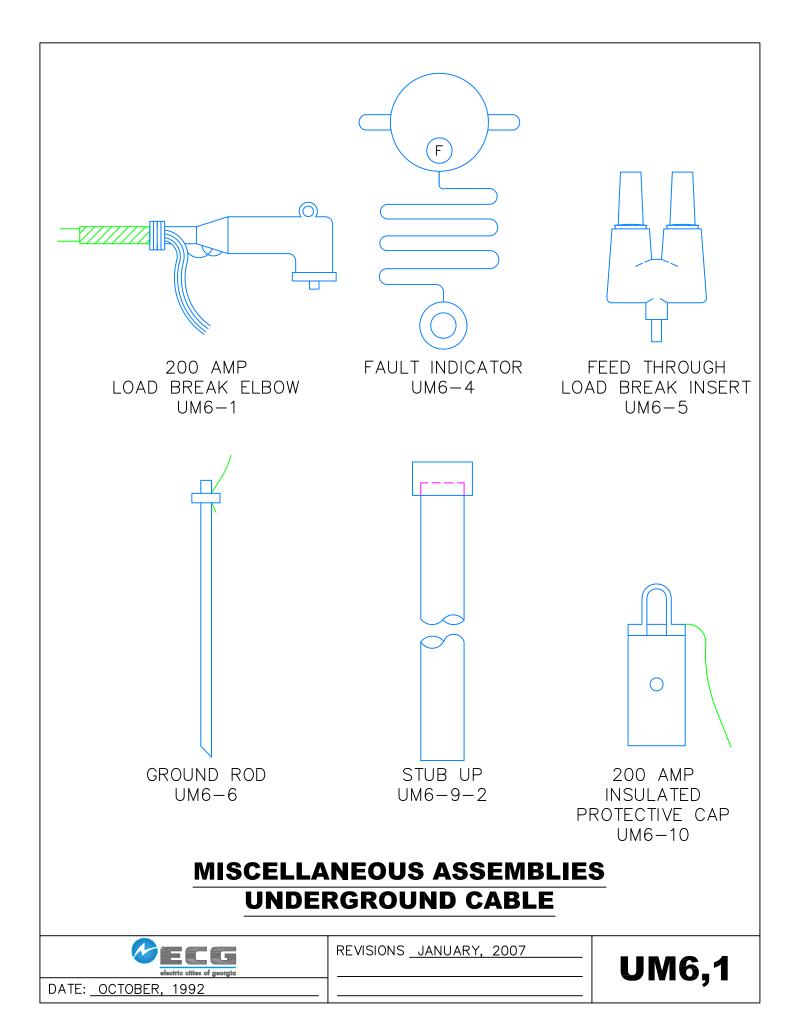
UM5-1

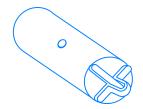


- 1. NEUTRAL PLACED A MIN. OF 18" BELOW BOTTOM OF TRANSFORMER TANK.
- 2. WEATHERHEAD PLACED AT NEUTRAL LEVEL.
- 3. MAINTAIN 40" BETWEEN DRIP LOOP AND COMMUNICATION COMPANIES.
- 4. IF CTS ARE REQUIRED, PLACE 6" ABOVE NEUTRAL.
- 5. CUSTOMER MUST FURNISH AND INSTALL RIGID NON-METALLIC CONDUIT WITH WEATHERHEAD ON QUADRANT OF POLE AWAY FROM TRAFFIC (SEE FIGURE 1).

TYPICAL CUSTOMER THREE PHASE UNDERGROUND SERVICE FROM OVERHEAD TRANSFORMER POLE

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DATE: OCTOBER, 1992		



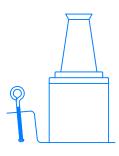


600 AMP
INSULATED
PROTECTIVE CAP
UM6-11

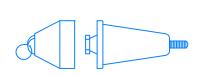


UM6-13

600 AMP DEADBREAK INSERT UM6-14



200 AMP STAND-OFF INSULATOR UM6-15



INSULATING PLUG 600 AMP CONNECTOR UM6-17



200 AMP STAND-OFF INSULATOR FEED THROUGH UM6-19



200 AMP
TWO POINT
JUNCTION
UM6-20



600 AMP
TWO POINT
JUNCTION
UM6-20-A

MISCELLANEOUS ASSEMBLIES UNDERGROUND CABLE



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UM6,2



200 AMP
THREE POINT
JUNCTION
UM6-21



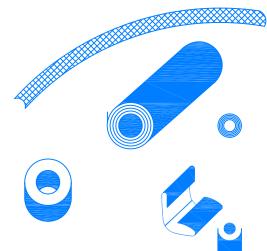
200 AMP FOUR POINT JUNCTION UM6-22



600 AMP
THREE POINT
JUNCTION
UM6-21-A



600 AMP FOUR POINT JUNCTION UM6-22-A



NOTE:

APPLICATION RUNS FOR 1320 RUNS PER NESC CODE SET ARTICAL: 0907C

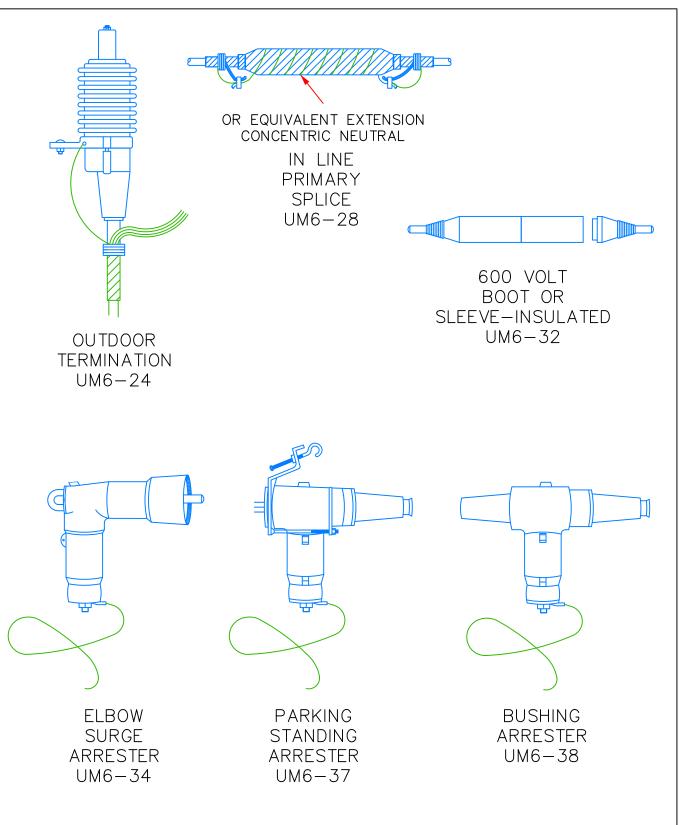
JACKETED CABLE GROUNDING KITS UM6-39

MISCELLANEOUS ASSEMBLIES UNDERGROUND CABLE

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UM6,3

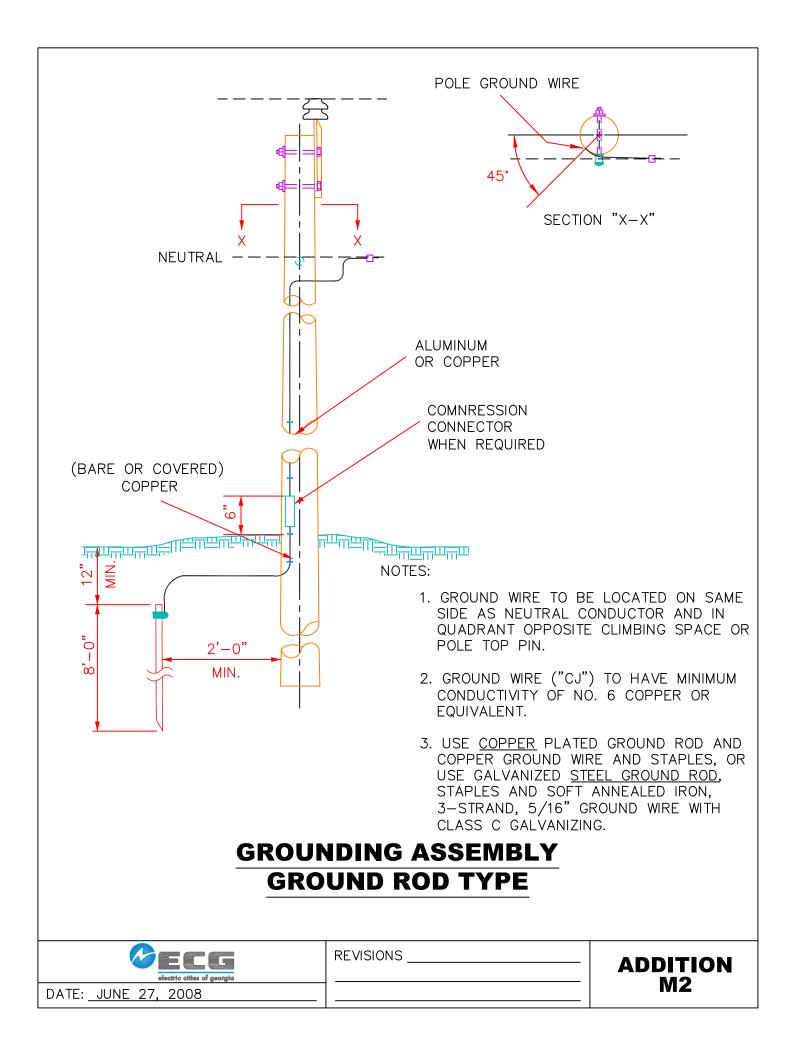


MISCELLANEOUS ASSEMBLIES UNDERGROUND CABLE



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UM6,4

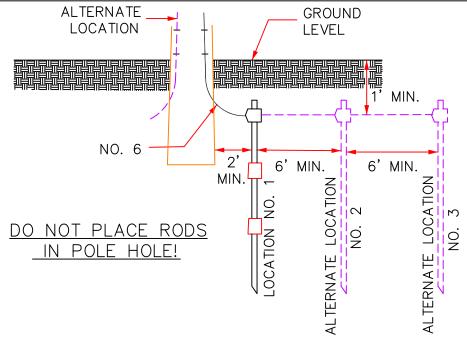


ELECTRIC CITIES OF GEORGIA

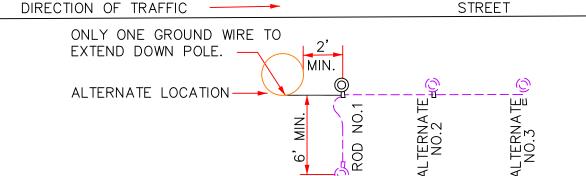
GROUNDING ASSEMBLY GROUND ROD TYPE

ADDITION-M2

ITEM	QUANTITY	STOCK NO.	MATERIAL	
			CONNECTOR, COMPRESSION, AS REQ'D.	
	1		ROD, GROUND, 5/8" MIN. DIAMETER	
	1		CLAMP, GROUND ROD	
			STAPLE, GROUND WIRE, AS REQ'D	
			WIRE, POLE GROUND, AS REQ'D	



- 1. GROUND RESISTANCE (MEGGER READING) SHOULD BE 25 OHMS OR LESS AT POLES WHICH SUPPORT EQUIPMENT REQUIRING LIGHTNING ARRESTERS.
- 2. EQUIPMENT POLES SHOULD HAVE A MINIMUM OF 3 RODS EITHER DRIVEN AT LOCATION NO. 1 OR ONE ROD IN THREE LOCATIONS.
- 3. ALL OTHER POLES SHOULD HAVE AT LEAST ONE GROUND ROD.



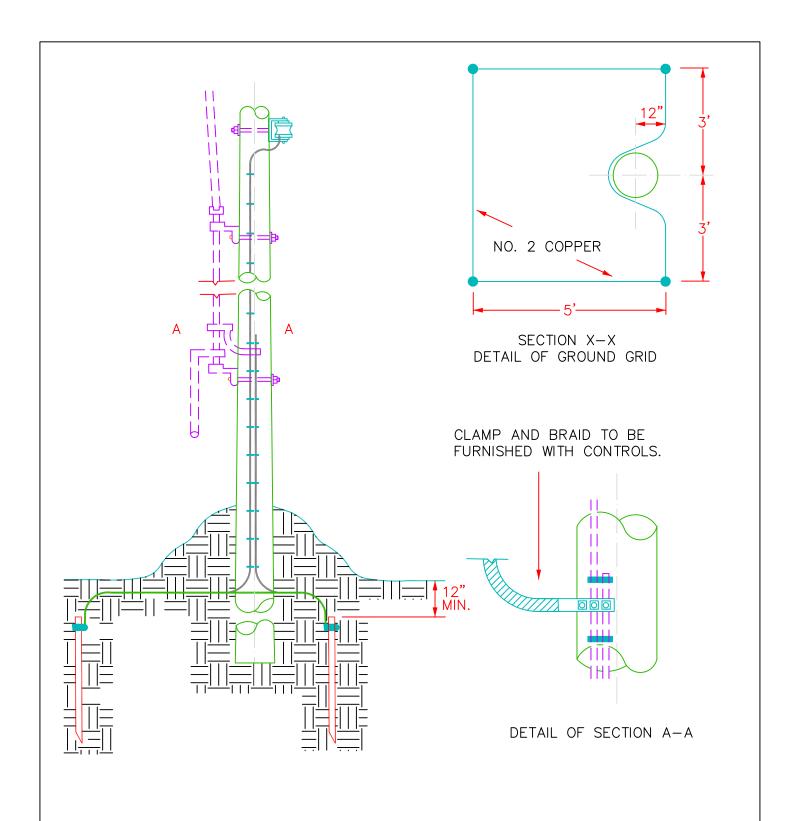
NOTE:

IF DRIVEWAY OR OTHER OBSTRUCTIONS INTERFERE WITH THE GROUND ROD LOCATION AS SHOWN, THE GROUND LEAD DOWN THE POLE MAY BE PLACED AT ALTERNATE LOCATION.

IN CASES WHERE TELEPHONE CABLE IS IN PLACE ON FIELD SIDE OF POLE, INSTALL GROUND ON ROAD SIDE QUADRANT AWAY FROM FLOW OF TRAFFIC.

UTILITY POLE GROUND ROD(S) LOCATION

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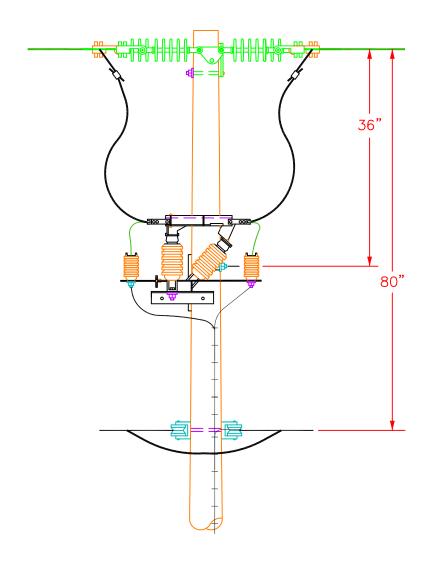


GROUNDING ASSEMBLY FOR AIR BREAK SWITCH

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M2-15



M3-15 ALTERNATE HORIZONTAL DOUBLE DEADEND

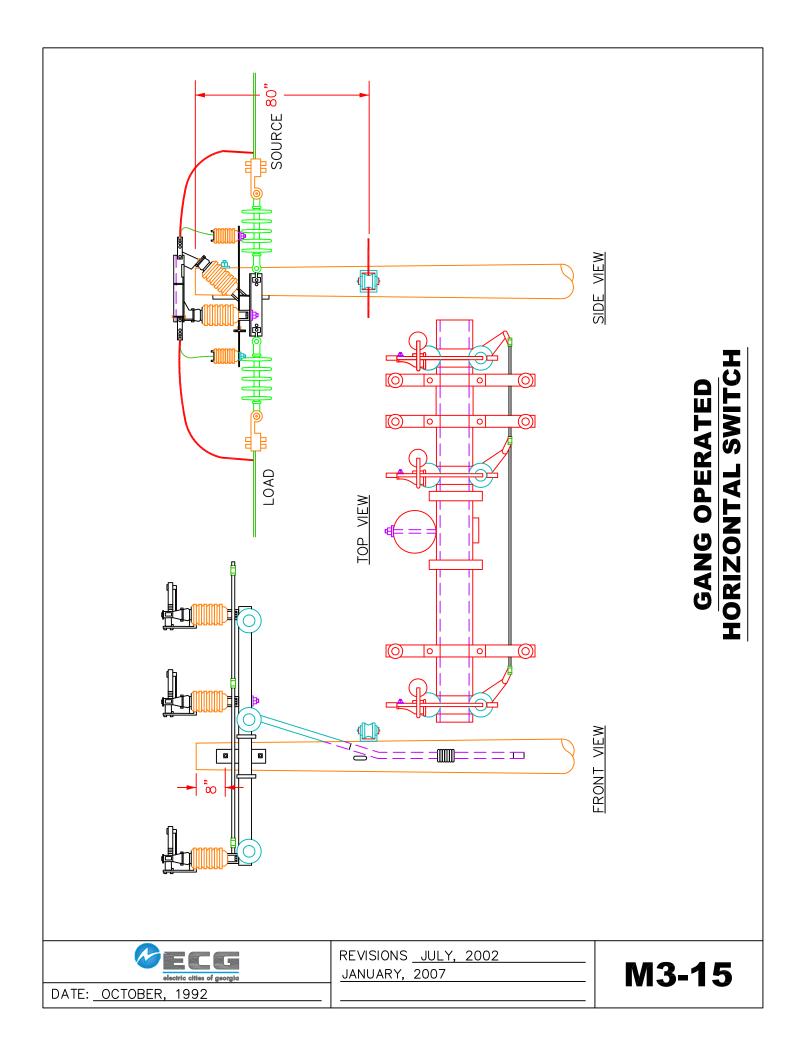
electric	cities of	georgia

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M3-15 ALTERNATE

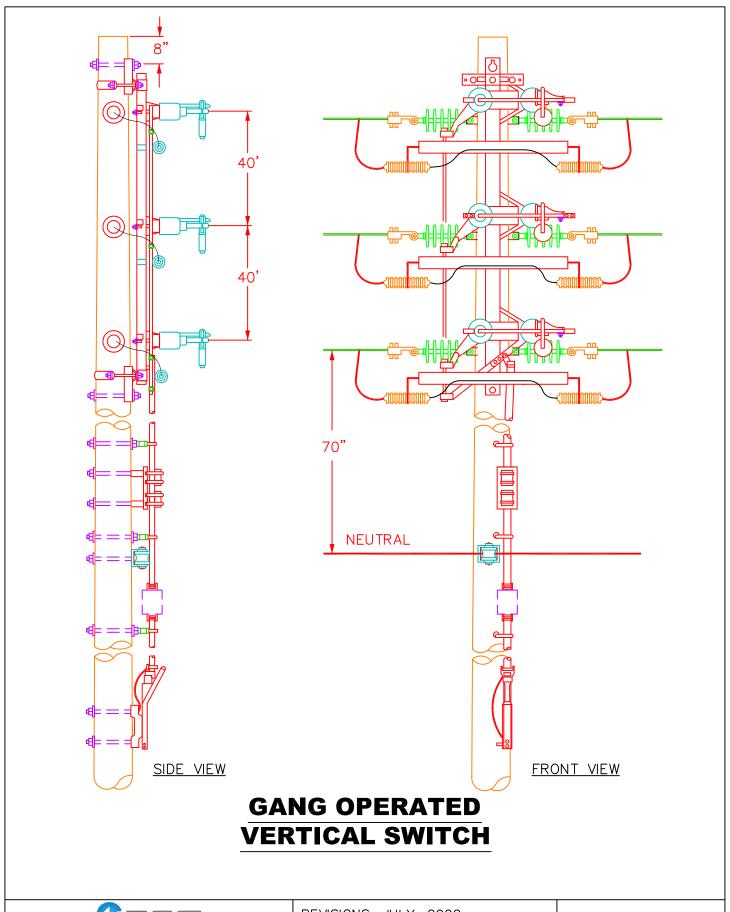


ELECTRIC CITIES OF GEORGIA

GANG OPERATED HORIZONTAL SWITCH

M3-15

ITEM	QUANTITY	STOCK NO.	MATERIAL
	6		ARRESTER
	6		CLAMP, DEADEND, SIZE AS REQ'D.
	1		CLEVIS, SECONDARY
	1		INSULATOR, SPOOL
	6		INSULATOR, SUSPENSION
	1		SWITCH, GANG OPERATED LOAD BREAK, 600 AMP



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DATE: OCTOBER, 1992

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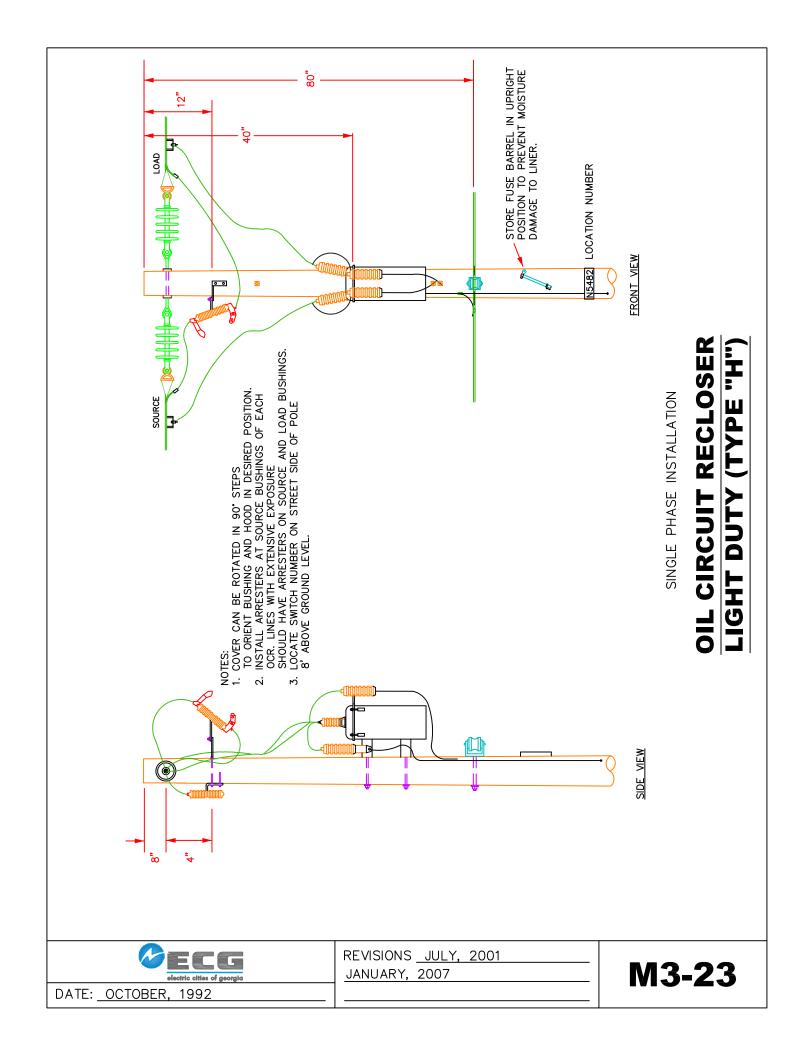
M3-15V

ELECTRIC CITIES OF GEORGIA

GANG OPERATED VERTICAL SWITCH

M3-15V

ITEM	QUANTITY	STOCK No.	MATERIAL
	6		ARRESTER
	6		CLAMP, DEADEND, SIZE AS REQ'D.
	1		CLEVIS, SECONDARY
	1		INSULATOR, SPOOL
	6		INSULATOR, SUSPENSION
	1		SWITCH, GANG OPERATED LOAD BREAK, 600 AMP

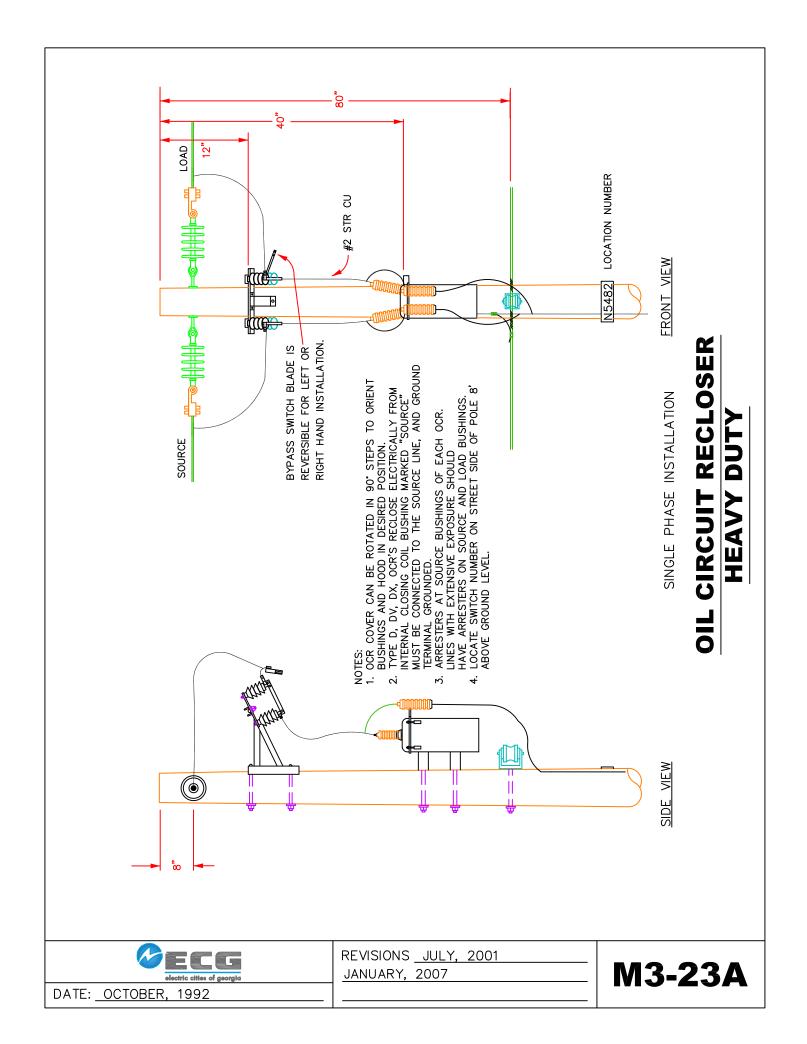


ELECTRIC CITIES OF GEORGIA

OIL CIRCUIT RECLOSER LIGHT DUTY (TYPE "H")

M3-23

ITEM	QUANTITY	STOCK NO.	MATERIAL
	2		ARRESTER
	1		BOLT, EYE, 5/8", LENGTH AS REQ'D.
	4		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	2		CLAMP, DEADEND, SIZE AS REQ'D.
	1		CLEVIS, SECONDARY
	1		CUT-OUT
	1		EYENUT, 5/8"
	1		INSULATOR, SPOOL
	2		INSULATOR, SUSPENSION
	1		L-BRACKET FOR CUTOUT MOUNTING
	5		NUT, LOCK, 5/8"
	1		RECLOSER, TYPE AND SIZE AS REQ'D.
	1		SCREW, LAG, 1/2" X 4"
	2		STIRRUP, SIZE AS REQ'D.
	6		WASHER, SQUARE 2-1/2" X 2-1/2"

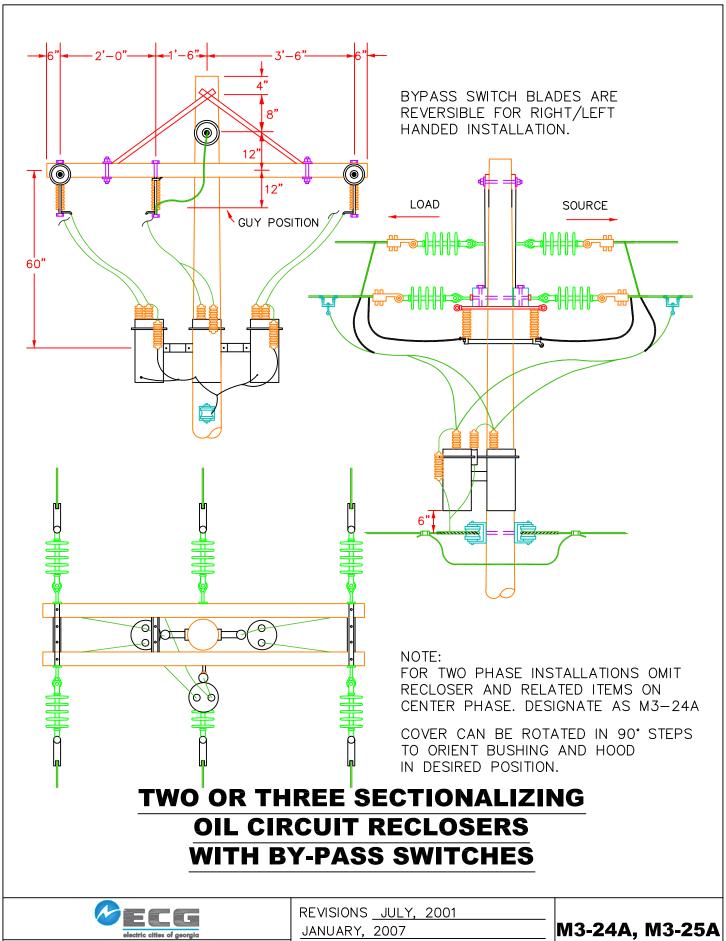


ELECTRIC CITIES OF GEORGIA

OIL CIRCUIT RECLOSER HEAVY DUTY

M3-23A

ITEM	QUANTITY	STOCK No.	MATERIAL
	AS REQ'D.		#2, 7-STRAND BARE COPPER, AS REQ'D.
	2		ARRESTER
	1		BOLT, EYE, 5/8", LENGTH AS REQ'D.
	5		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	2		CLAMP, DEADEND, SIZE AS REQ'D.
	1		CLEVIS, SECONDARY
	1		EYENUT, 5/8"
	1		INSULATOR, SPOOL
	2		INSULATOR, SUSPENSION
	6		NUT, LOCK, 5/8"
	1		RECLOSER, TYPE AND SIZE AS REQ'D.
	1		SWITCH - RECLOSER BYPASS
	7		WASHER, SQUARE 2-1/2" X 2-1/2"



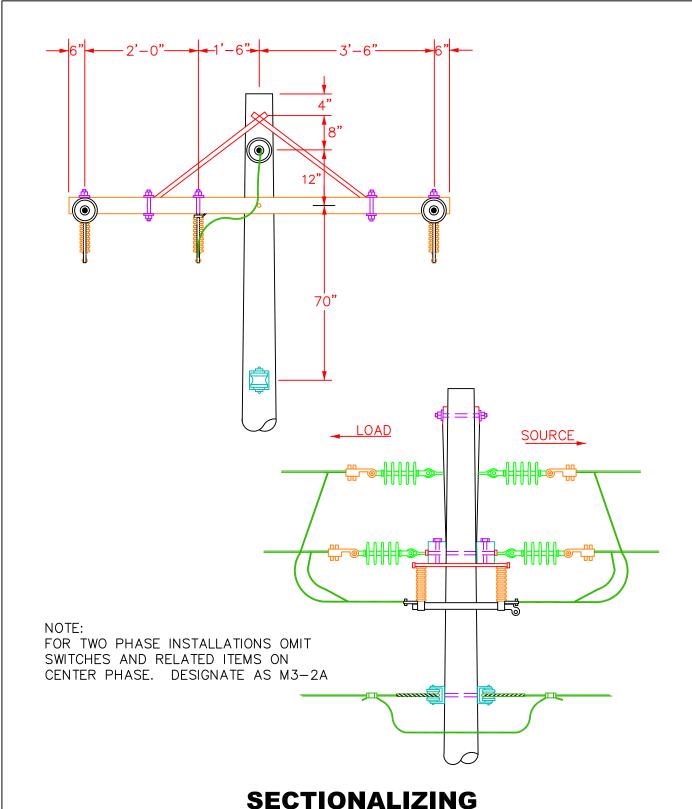
DATE: OCTOBER, 1992

ELECTRIC CITIES OF GEORGIA

TWO OR THREE SECTIONALIZING OIL CIRCUIT RECLOSERS WITH BY-PASS SWITCHES

M3-24A, M3-25A

ITEM	QUANTITY	STOCK No.	MATERIAL
	6		ARRESTERS
	3		BOLT, D.A., 5/8", LENGTH AS REQ'D.
	1		BOLT, EYE, 5/8", LENGTH AS REQ'D.
	4		BOLT, MACHINE, 1/2" X 6"
	2		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	2		BRACE, CROSSARM, WOOD
	6		CLAMP, DEADEND, SIZE AS REQ'D.
	2		CLEVIS, SECONDARY
	1		CLUSTER MOUNT, SMALL, FOR RECLOSERS,
	5		EYENUT, 5/8"
	2		INSULATOR, SPOOL
	6		INSULATOR, SUSPENSION
	9		NUT, LOCK, 5/8"
	3		RECLOSER, TYPE AND SIZE AS REQ'D.
	1		SCREW, LAG, 1/2" X 4"
	3		SWITCH, IN-LINE DISCONNECT, 600 AMP
	4		WASHER, 1/2", FLAT
	12		WASHERS, SQUARE 2-1/2" X 2-1/2"



SECTIONALIZING DISCONNECT SWITCHES



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_ | M3-2A, M3-3A

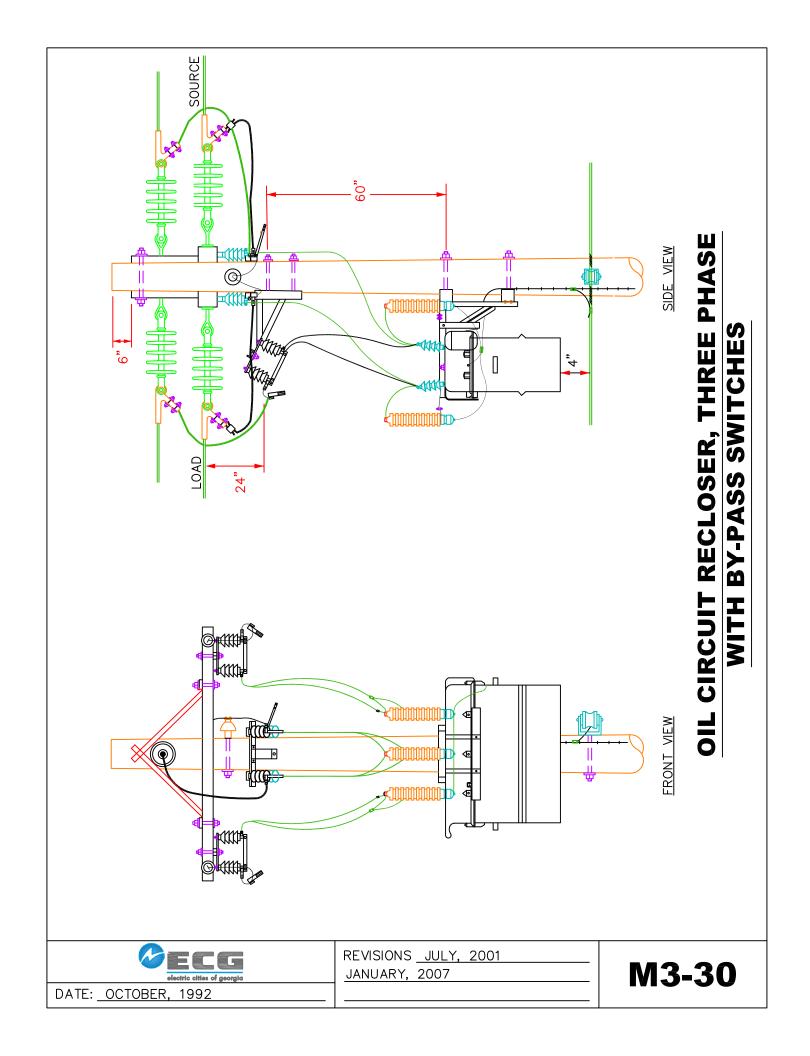
DATE: OCTOBER, 1992

ELECTRIC CITIES OF GEORGIA

SECTIONALIZING DISCONNECT SWITCHES

M3-2A, M3-3A

	1 1		THE LA, ING SA
ITEM	QUANTITY	STOCK No.	MATERIAL
	3		BOLT, D.A., 5/8", LENGTH AS REQ'D.
	1		BOLT, EYE, 5/8", LENGTH AS REQ'D.
	4		BOLT, MACHINE, 1/2" X 6"
	2		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	6		BRACE, CROSSARM, WOOD
	2		CLAMP, DEADEND, SIZE AS REQ'D.
	5		CLEVIS, SECONDARY
	5		EYENUT, 5/8"
	2		INSULATOR, SPOOL
	6		INSULATOR, SUSPENSION
	9		NUT, LOCK, 5/8"
	3		SWITCH, IN-LINE DISCONNECT, 600 AMP
	4		WASHER, 1/2", FLAT
	12		WASHERS, SQUARE 2-1/2" X 2-1/2"

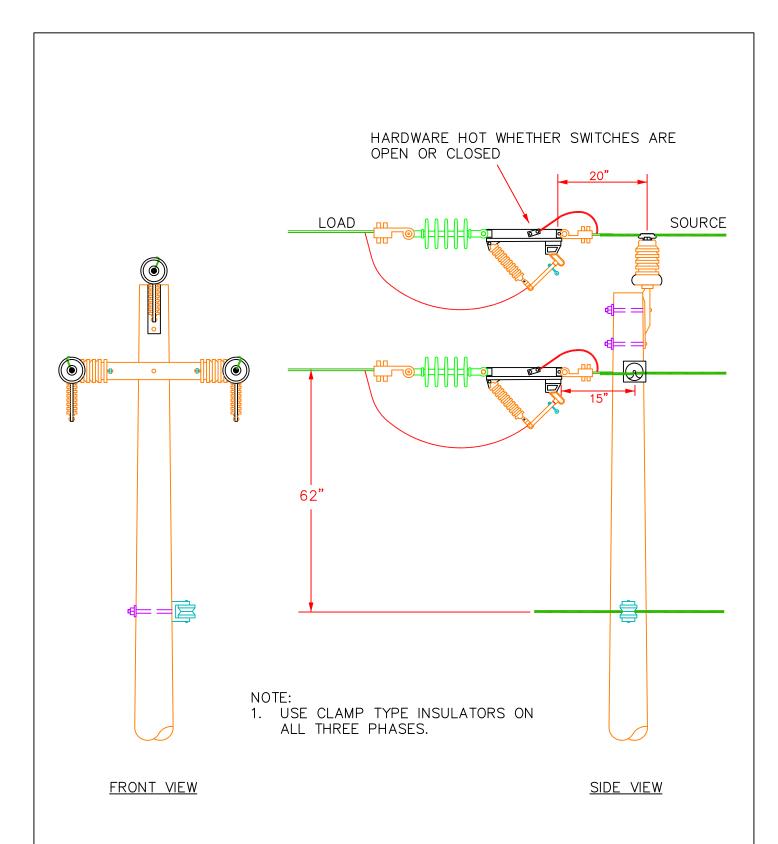


ELECTRIC CITIES OF GEORGIA

OIL CIRCUIT RECLOSER, THREE PHASE WITH BY-PASS SWITCHES

M3-30

ITEM	QUANTITY	STOCK NO.	MATERIAL		
	6		ARRESTERS		
	3		BOLT, D.A., 5/8", LENGTH AS REQ'D.		
	1		BOLT, EYE, 5/8", LENGTH AS REQ'D.		
	4		BOLT, MACHINE, 1/2" X 6"		
	6		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.		
	2		BRACE, CROSSARM, WOOD		
	1		BRACKET, BYPASS SWITCH MOUNTING		
	1		BRACKET, RECLOSER MOUNTING		
	6		CLAMP, DEADEND, SIZE AS REQ'D.		
	2		CLEVIS, SECONDARY		
	5		EYENUT, 5/8"		
	2		INSULATOR, SPOOL		
	6		INSULATOR, SUSPENSION		
	13		NUT, LOCK, 5/8"		
	1		RECLOSER, THREE-PHASE, TYPE AND SIZE AS REQ'D.		
	3		SWITCH, IN-LINE DISCONNECT, 600 AMP		
	4		WASHER, 1/2", FLAT		
	16		WASHERS, SQUARE 2-1/2" X 2-1/2"		



SECTIONALIZING IN-LINE SWITCHES

electric cities of georgia				
electric cities of ReorBig	electric	cities	of georgia	

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M3-3S

DATE: _____

ELECTRIC CITIES OF GEORGIA

SECTIONALIZING IN-LINE SWITCHES

M3-3S

ITEM QUANTITY STOCK NO.		MATERIAL		
	1	ARM, STEEL, 2 POST INSULATOR, 36"		
	3	CLAMP, ANGLE, SIZE AS REQ'D.		
	6	CLAMP, DEADEND, SIZE AS REQ'D.		
	1	CLEVIS, SECONDARY		
	6	CONNECTOR, COMPRESSION TWO BOLT		
	2	INSULATOR, HORIZONTAL, POST CLAMP TYPE		
	1	INSULATOR, SPOOL		
	3	INSULATOR, SUSPENSION		
	1	INSULATOR, VERTICAL, POST CLAMP TOP		
	4	NUT, LOCK, 5/8"		
	1	PIN, POLE TOP, VERTICAL FOR POST INSULATOR		
	3	STUD, MOUNTING, F/POST INSULATOR		
	3	SWITCH, IN-LINE DISCONNECT, 600 AMP		
	4	WASHERS, SQUARE 2-1/2" X 2-1/2"		

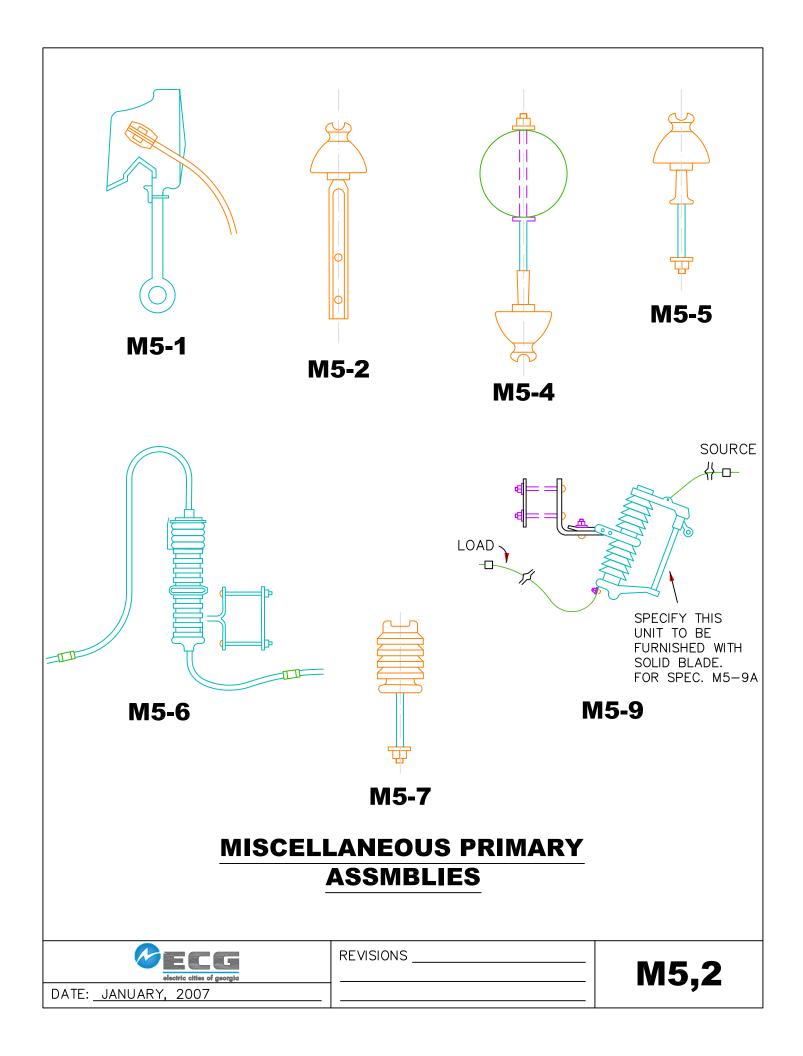
WIRE CHARACTERISTICS FOR COPPER, ACSR AND AAC CONDUCTOR

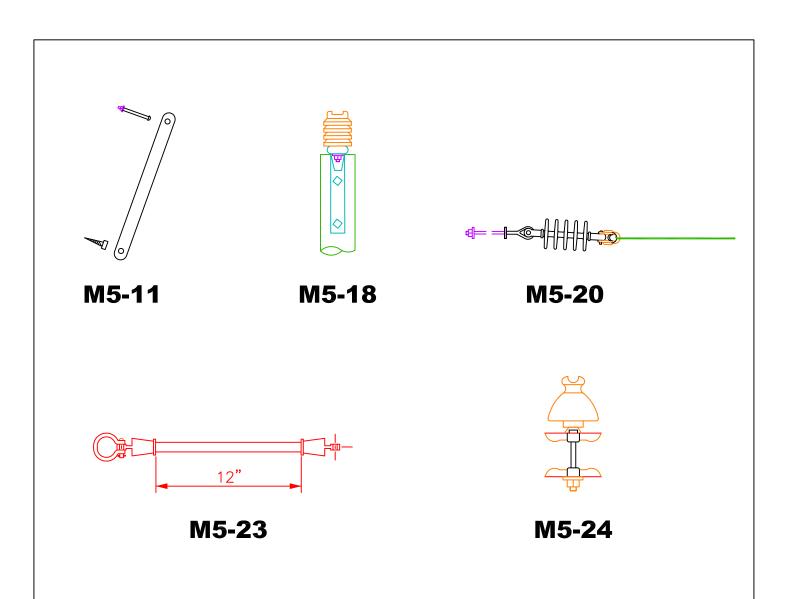
	AMPS	TENSILE STRENGTH	WEIGHT PER 1000 FT.	NO STRANDS	CIRCULAR MILS
COPPER (BARE)					
500 MCM HD	810	22,510	1,544	37	500,000
350 MCM HD	650	15,590	1,081	19	350,000
4/0	480	9,154	653	7	211,600
1/0	310	4,750	325	7	105,500
#2	230	3,050	205	7	66,370
#4 SOLID	170	1,938	126	1	41,740
#6 SOLID	120	1,280	79	1	26,250
ACSR					
795 COOT	884	19,710	884	36	795,000
397.5 MCM	576	9,940	432	18	397,500
336.4 MCM	519	8,680	365	18	336,400
4/0	357	8,350	291	6	211,600
3/0	315	6,620	230	6	167,800
2/0	276	5,310	183	6	133,100
1/0	242	4,380	146	6	105,500
#2	184	2,850	91	6	66,370
#4	140	1,860	58	6	41,740
AAC					
795 MCM LILAC	879	14,300	746	61	795,000
750 MCM CATTAIL	847	13,500	847	61	750,000
500 MCM ZINNA	658	8,760	469	19	500,000

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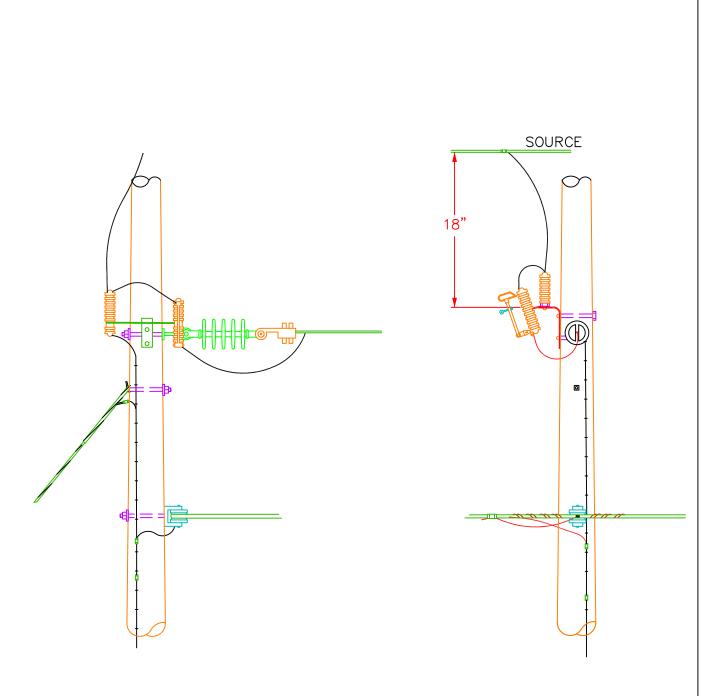
M5,1





MISCELLANEOUS PRIMARY ASSMBLIES

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DATE: JANUARY, 2007		,0



NOTE: IF PRIMARY IS ON WOOD ARM MOUNT CUTOUT ON WOOD ARM. COMMON 100 A CUTOUT.

SECTIONALIZING-FUSED, SINGLE PHASE PRIMARY LINE PULL OFF

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M5-10

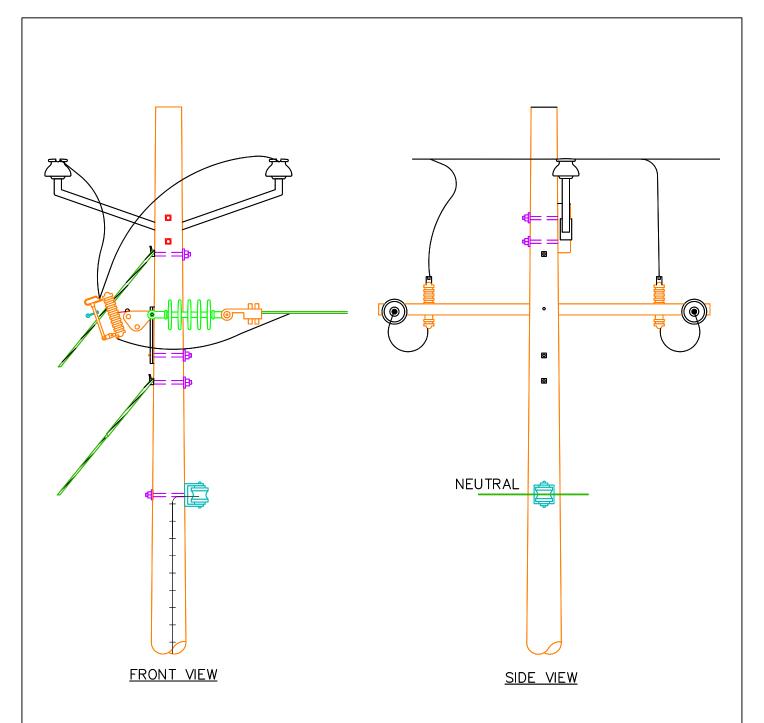
DATE: OCTOBER, 1992

ELECTRIC CITIES OF GEORGIA

SECTIONALIZING-FUSED, SINGLE PHASE PRIMARY LINE PULL OFF

M5-10

ITEM	QUANTITY	STOCK NO.	MATERIAL
	1		ARRESTERS
	1		BOLT, D.A., 5/8", LENGTH AS REQ'D.
	1		BRACKET, CUTOUT & ARRESTER, T-HANGER
	1		ситоит
	1		SCREW, LAG, 1/2" X 4"



NOTES:

- MOUNT CUTOUTS ON PULLOFF ARM.
 PULLOFF ARM SHOULD BE 78" MINIMUM.
- 3.) TRANSFORMER AND U.D. TERMINATIONS SHOULD NOT BE INSTALLED ON THE POLES.

SECTIONALIZING - TWO PHASE FUSE PRIMARY LINE PULL OFF

electric	cities of	georgia

REVISIONS JULY, 2002 JANUARY, 2007

DATE: OCTOBER, 1992

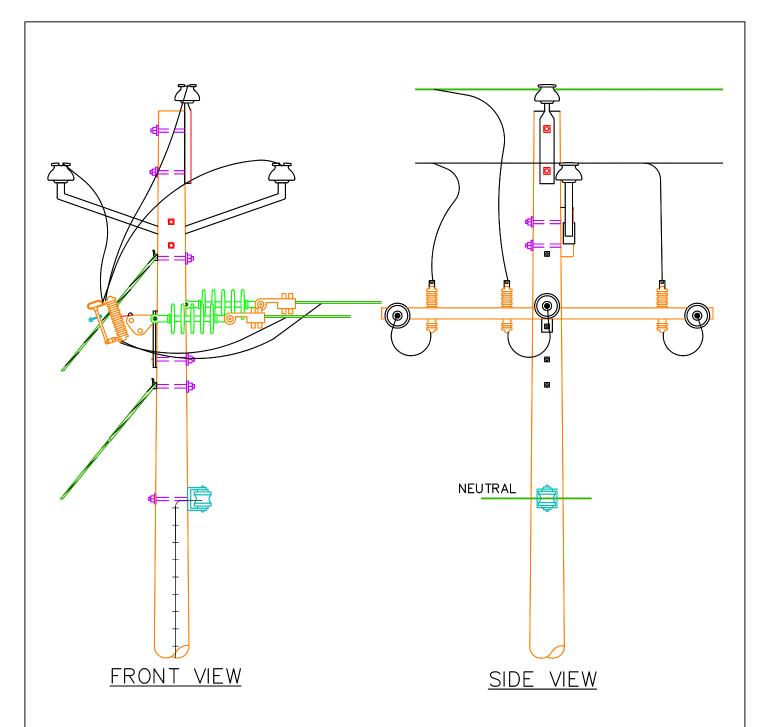
M5-10-2

ELECTRIC CITIES OF GEORGIA

SECTIONALIZING - TWO PHASE FUSE PRIMARY LINE PULL OFF

M5-10-2

ITEM	QUANTITY	STOCK NO.	MATERIAL
	2		ARRESTERS
	2		CUTOUTS



NOTES:

- MOUNT CUTOUTS ON PULLOFF ARM.
 PULLOFF ARM SHOULD BE 78" MINIMUM.
 TRANSFORMER AND U.D. TERMINATIONS SHOULD NOT BE INSTALLED ON THE POLES.

SECTIONALIZING - FUSED, THREE PHASE PRIMARY LINE PULL OFF

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M5-10-3

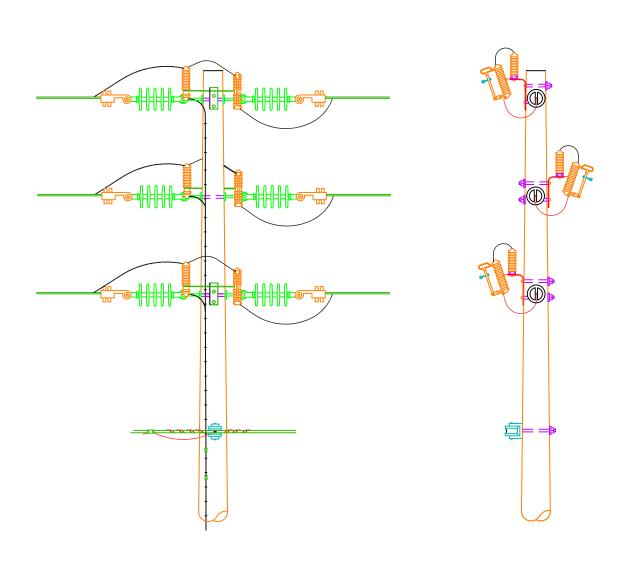
DATE: OCTOBER, 1992

ELECTRIC CITIES OF GEORGIA

SECTIONALIZING - FUSED, THREE PHASE PRIMARY LINE PULL OFF

M5-10-3

ITEM	QUANTITY	STOCK NO.	MATERIAL
	3		ARRESTERS
	3		CUTOUTS



NOTES:

- 1.) USE INSULATORS OF APPROPRIATE CLASS FOR THE REQUIRED VOLTAGE.
- 2.) THE DRAWING SHOWS PROVISIONS FOR INSTALLING ARRESTERS.
- 3.) TRANSFORMER AND UD TERMINATIONS SHOULD NOT BE INSTALLED ON THESE POLES.
- 4.) IF ARRESTERS ARE NOT USED, THE CENTER T BRACKET CAN BE ROTATED TO THE SAME SIDE OF THE POLE AS OTHER BRACKETS. IN THIS POSITION, THE CUTOUTS MUST BE STAGGERED TO PREVENT CUTOUTS FROM DISCHARGING ON EACH OTHER.

SECTIONALIZING - FUSED, THREE PHASE VERTICAL PRIMARY



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M5-10-3V

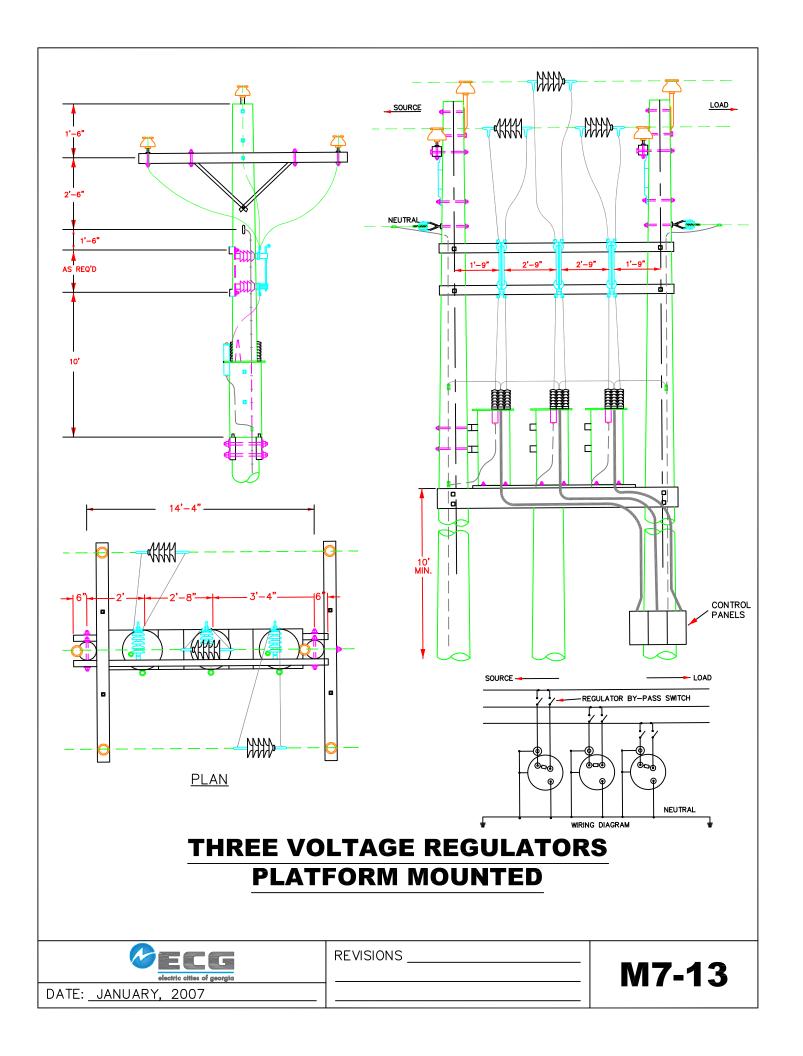
DATE: OCTOBER, 1992

ELECTRIC CITIES OF GEORGIA

SECTIONALIZING - FUSED, THREE PHASE VERTICAL PRIMARY

M5-10-3V

ITEM	QUANTITY	STOCK No.	MATERIAL
	3		ARRESTERS
	3		BRACKET, CUTOUT & ARRESTER, T-HANGER
	3		CUTOUTS

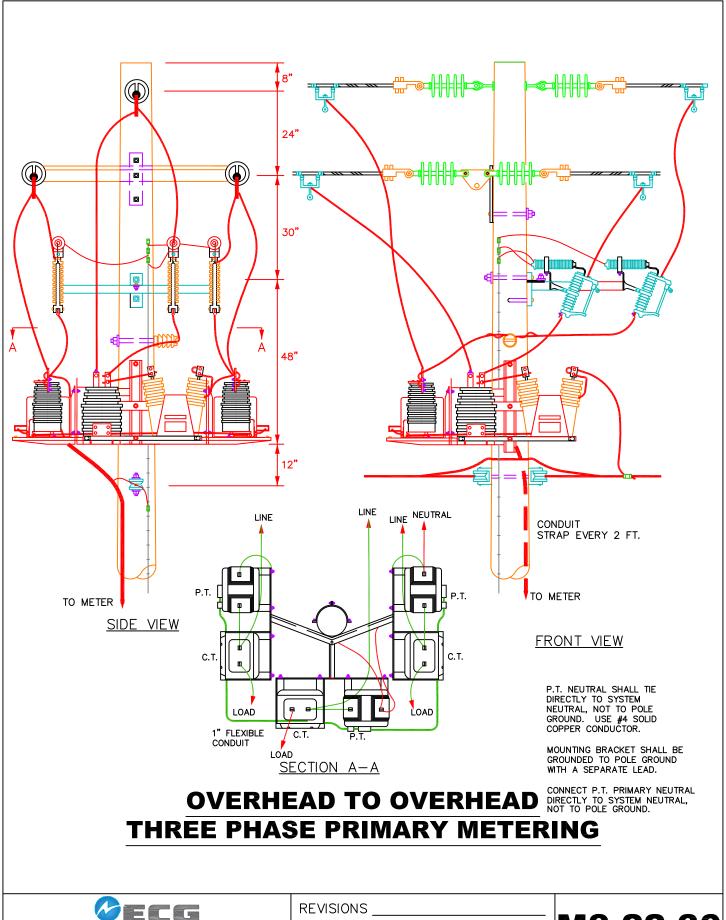


ELECTRIC CITIES OF GEORGIA

THREE VOLTAGE REGULATORS PLATFORM MOUNTED

M7-13

ITEM	QUANTITY	STOCK No.	MATERIAL
	6		ARRESTER, 9 KV, METAL OXIDE
	3		INSULATOR, SUSPENSION, EPOXY
	1		PLATFORM, TRANSFORMER/REGULATOR
	3		REGULATOR
	3		ROD, GROUND, 5/8" X 10'
	3		SWITCH, REGULATOR BY-PASS, 15 KV
	AS REQ'D		WIRE, 6 S.D., BARE CU
	12		NUT, LOCK, 5/8"
	12		WASHER, SQUARE, 2" X 2"
	5		ROD, GROUND 5/8" X 10"
	3		GROUND, CADWELD #2/7 STR
	80		WIRE, 2 S.D. 7 STR BARE CU



DATE: JANUARY, 2007

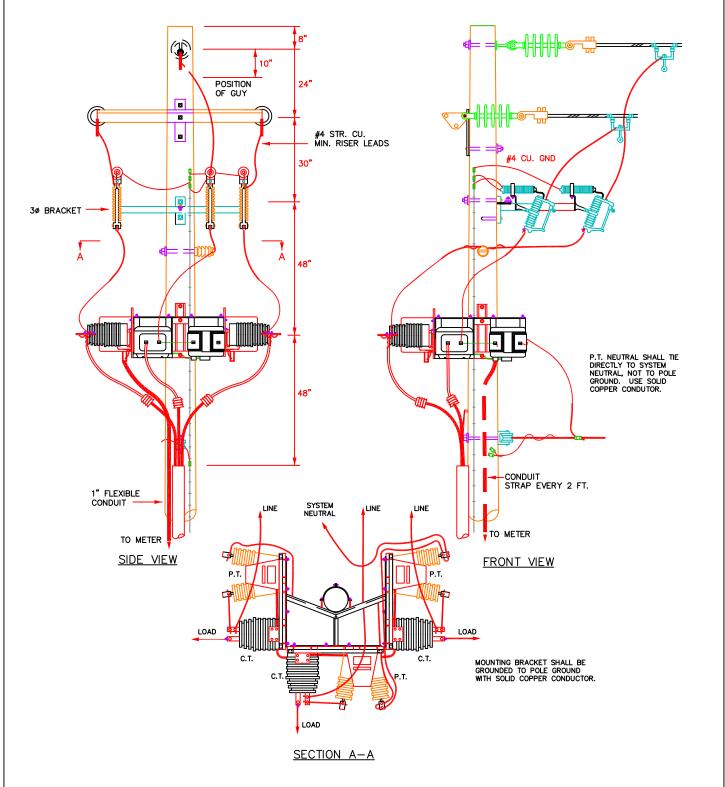
REVISIONS _______ | M8-22-30

ELECTRIC CITIES OF GEORGIA

OVERHEAD TO OVERHEAD THREE PHASE PRIMARY METERING

M8-22-30

TEM	QUANTITY	STOCK No.	MATERIAL
	3		ARRESTER
	3		BRACKET, CUTOUT & ARRESTER, T-HANGER
	3		ситоит
	4		BOLTS, MACHINE 5/8" LENGTH AS REQ'D
	4		WASHER, SQUARE 2-1/2" X 2-1/2"
	1		PRIMARY METERING BANK, SIZE AD REQUIRED
	6		STIRRUPS, SIZE AS REQUIRED



OVERHEAD TO UNDERGROUND THREE PHASE PRIMARY METERING

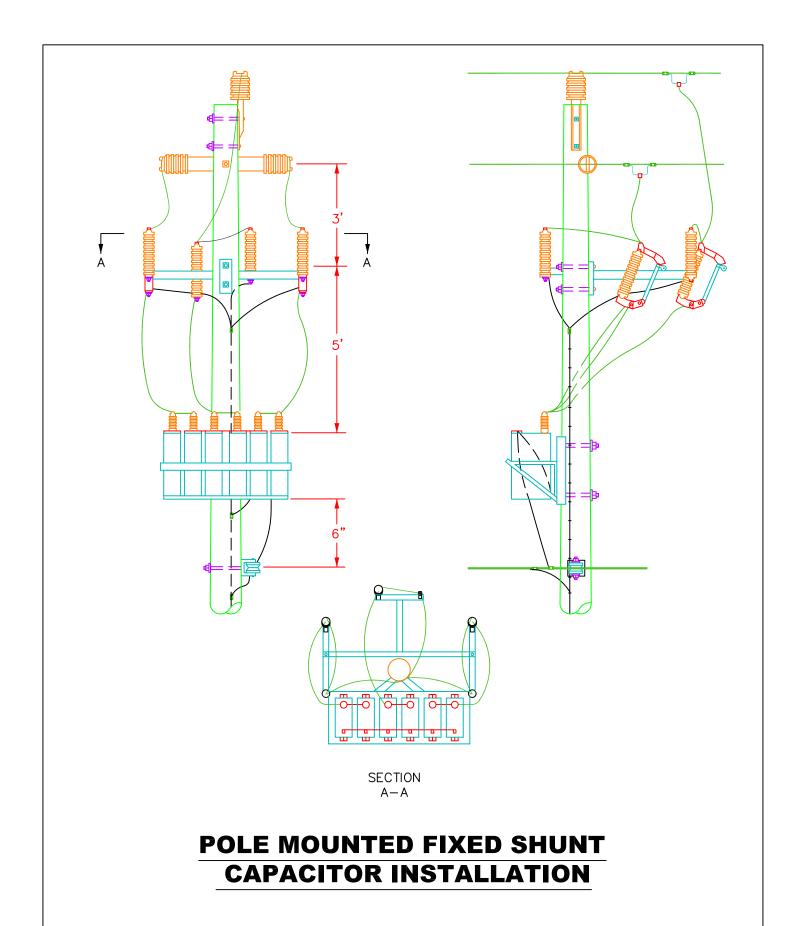
ECC electric cities of georgia	REVISIONS	M8-22-35
DATE: JANUARY, 2007		

ELECTRIC CITIES OF GEORGIA

OVERHEAD TO UNDERGROUND THREE PHASE PRIMARY METERING

M8-22-35

ITEM	QUANTITY	STOCK NO.	MATERIAL
	3		ARRESTER
	3		BRACKET, CUTOUT & ARRESTER, T-HANGER
	3		ситоит
	4		BOLTS, MACHINE 5/8" LENGTH AS REQ'D
	4		WASHER, SQUARE 2-1/2" X 2-1/2"
	1		PRIMARY METERING BANK, SIZE AD REQUIRED
	3		STIRRUPS, SIZE AS REQUIRED

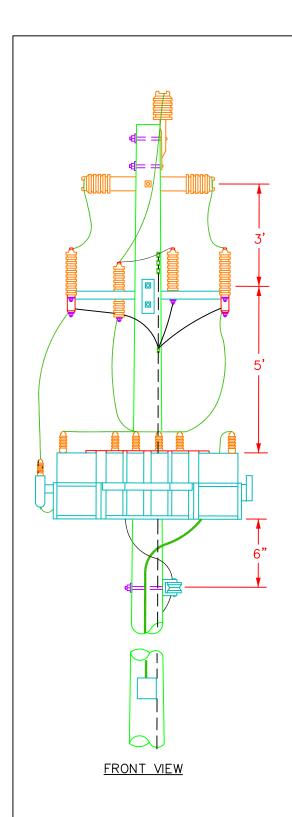


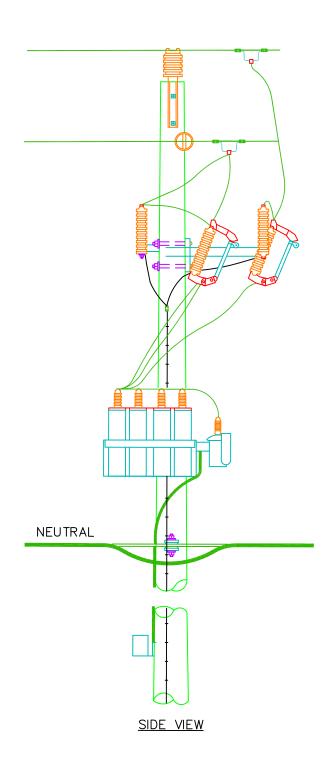


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JANUARY, 2007

M9-13-M2





POLE MOUNTED SWITCH SHUNT CAPACITOR INSTALLATION

electric cities of georgia

DATE: OCTOBER, 1992

REVISIONS <u>JULY, 2002</u> JANUARY, 2007

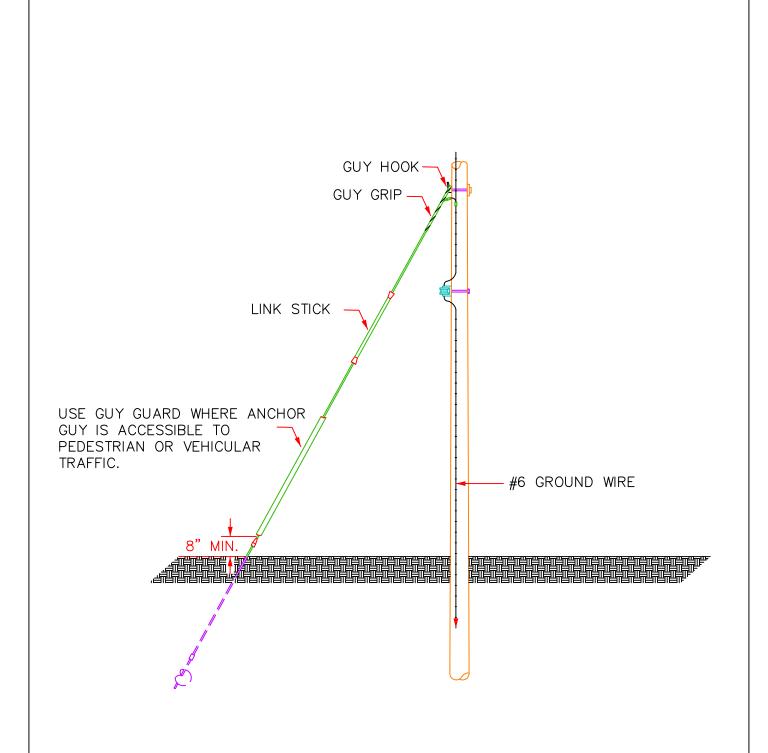
M9-13S

ELECTRIC CITIES OF GEORGIA

POLE MOUNTED SWITCH SHUNT CAPACITOR INSTALLATION

M9-13S

ITEM	QUANTITY	STOCK NO.	MATERIAL
	3		ARRESTER
	3		BRACKET, CUTOUT & ARRESTER, T-HANGER
	3		ситоит
	4		BOLTS, MACHINE 5/8" LENGTH AS REQ'D
	4		WASHER, SQUARE 2-1/2" X 2-1/2"
	1		CAPACITOR BANK, SIZE AD REQUIRED
	3		STIRRUPS, SIZE AS REQUIRED



ANCHOR GUY DETAIL

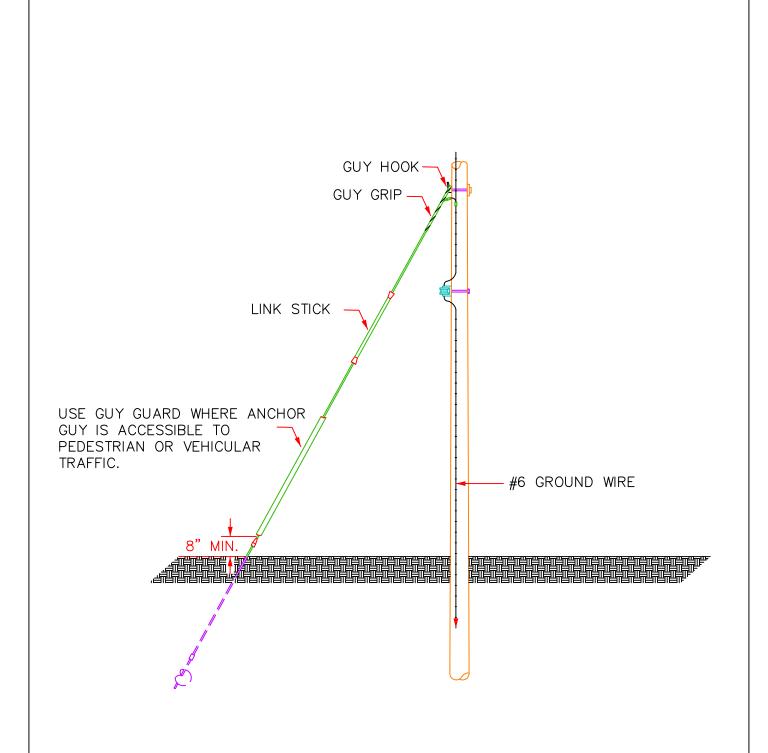
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DATE:	OCTOBER, 1992

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ELECTRIC CITIES OF GEORGIA

ANCHOR GUY DETAIL

ITEM	QUANTITY	STOCK NO.	MATERIAL
	AS REQ'D.		WIRE, GUY, UTILITY GRADE STEEL
	2		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	1		GRIP, PREFORM FOR STEEL GUY WIRE,
			SIZE AS REQ'D.
	1		GUY FITTING, HOG EAR
	1		INSULATOR, FIBERGLASS LINK STICK,
			SIZE AS REQ'D.
	2		NUT, LOCK, 5/8"
	2		SCREW, LAG, 1/2" X 4"
	2		WASHER, CURVED, 4"X4"



ANCHOR GUY DETAIL

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DATE:	OCTOBER, 1992

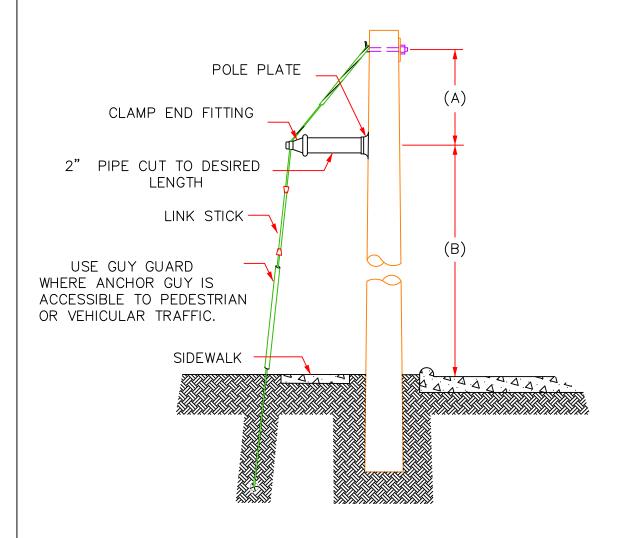
REVISIONS JULY, 2002

ELECTRIC CITIES OF GEORGIA

ANCHOR GUY DETAIL

ITEM	QUANTITY	STOCK NO.	MATERIAL
	AS REQ'D.		WIRE, GUY, UTILITY GRADE STEEL
	2		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	1		GRIP, PREFORM FOR STEEL GUY WIRE,
			SIZE AS REQ'D.
	1		GUY FITTING, HOG EAR
	1		INSULATOR, FIBERGLASS LINK STICK,
			SIZE AS REQ'D.
	2		NUT, LOCK, 5/8"
	2		SCREW, LAG, 1/2" X 4"
	2		WASHER, CURVED, 4"X4"

NOTE: DIMENSION A — TO BE 1/3 OF THE HEIGHT OF THE ANCHOR ATTACHMENT ABOVE THE GROUND. DIMENSION B —TO BE 18' MIN.



TO BE USED ONLY WHEN VERTICAL CLEARANCE UNDER GUY IS NECESSARY

SIDEWALK GUY



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E1-S

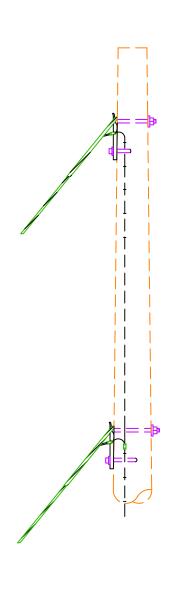
DATE: OCTOBER, 1992

ELECTRIC CITIES OF GEORGIA

SIDEWALK GUY

E1-S

ITEM	QUANTITY	STOCK NO.	MATERIAL
	AS REQ'D.		WIRE, GUY, UTILITY GRADE STEEL
	1		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	4		GRIP, PREFORM FOR STEEL GUY WIRE,
			SIZE AS REQ'D.
	1		GUY FITTING, HOG EAR
	1		GUY, SIDEWALK ASS'Y., CLAMP END
	1		GUY, SIDEWALK ASS'Y., POLE PLATE
	1		INSULATOR, FIBERGLASS LINK STICK,
			SIZE AS REQ'D.
	AS REQ'D		PIPE, GALVANIZED, 2"
	3		SCREW, LAG, 1/2" X 4"
	1		WASHER, CURVED, 4"X4"



DOUBLE DOWN GUY

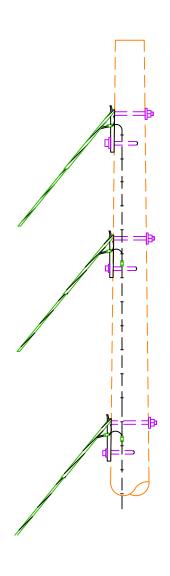
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ELECTRIC CITIES OF GEORGIA

DOUBLE DOWN GUY

ITEM	QUANTITY	STOCK No.	MATERIAL
	2		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	8		GRIP, PREFORM FOR STEEL GUY WIRE,
			SIZE AS REQ'D.
	2		GUY FITTING, HOG EAR
	2		INSULATOR, FIBERGLASS LINK STICK,
			SIZE AS REQ'D.
	2		SCREW, LAG, 1/2" X 4"
	2		WASHER, CURVED, 4"X4"
	AS REQ'D.		WIRE, GUY, UTILITY GRADE STEEL



THREE DOWN GUYS

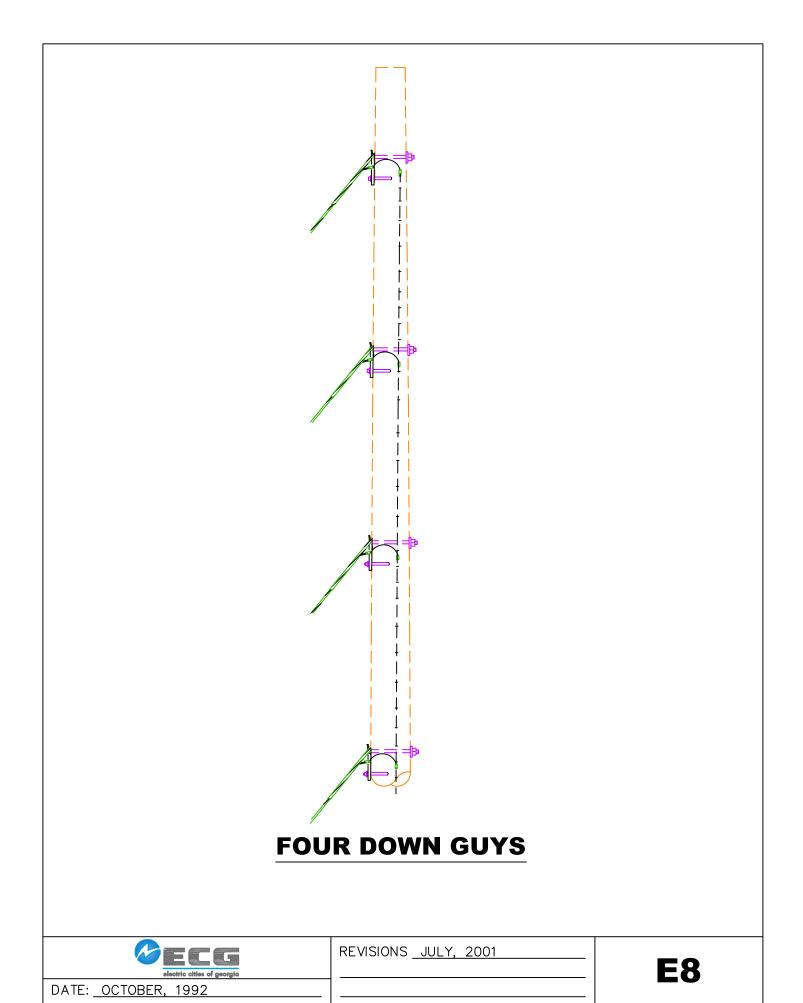
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ELECTRIC CITIES OF GEORGIA

THREE DOWN GUYS

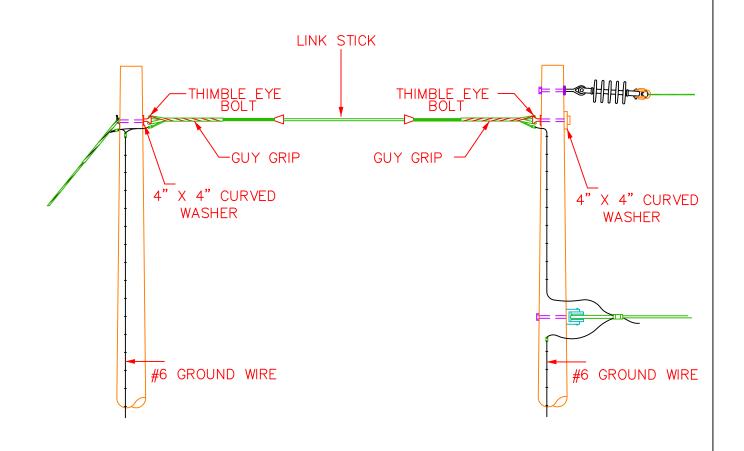
ITEM	QUANTITY	STOCK No.	MATERIAL
	2		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	12		GRIP, PREFORM FOR STEEL GUY WIRE,
			SIZE AS REQ'D.
	3		GUY FITTING, HOG EAR
	3		INSULATOR, FIBERGLASS LINK STICK,
			SIZE AS REQ'D.
	3		SCREW, LAG, 1/2" X 4"
	3		WASHER, CURVED, 4"X4"
	AS REQ'D.		WIRE, GUY, UTILITY GRADE STEEL



ELECTRIC CITIES OF GEORGIA

FOUR DOWN GUYS

ITEM	QUANTITY	STOCK No.	MATERIAL
	4		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	16		GRIP, PREFORM FOR STEEL GUY WIRE,
			SIZE AS REQ'D.
	4		GUY FITTING, HOG EAR
	4		INSULATOR, FIBERGLASS LINK STICK,
			SIZE AS REQ'D.
	4		SCREW, LAG, 1/2" X 4"
	4		WASHER, CURVED, 4"X4"
	AS REQ'D.		WIRE, GUY, UTILITY GRADE STEEL



NOTE: CONNECT ALL STRANDS OF GUY WIRE TO GROUND OR NEUTRAL.

DETAIL SPAN GUY

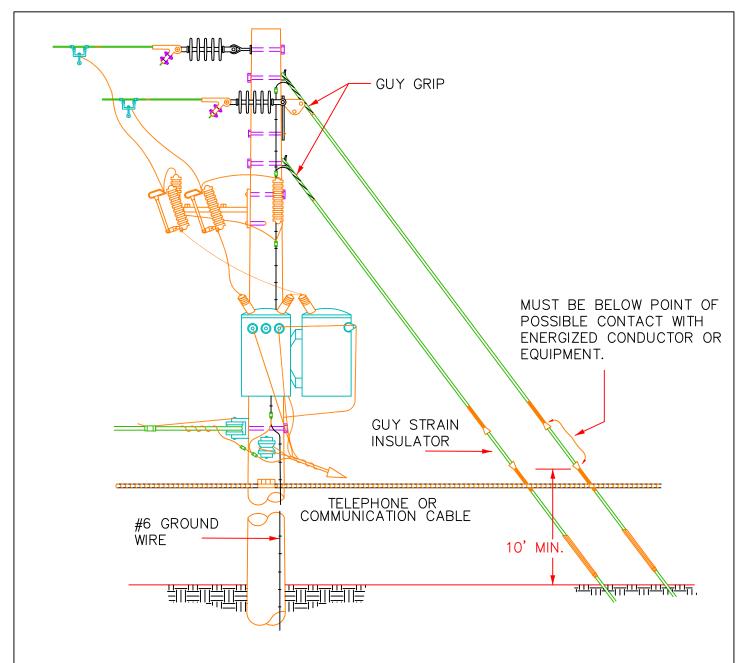


REVISIONS <u>JULY, 2002</u> JANUARY, 2007

ELECTRIC CITIES OF GEORGIA

DETAIL SPAN GUY

ITEM	QUANTITY	STOCK No.	MATERIAL
	4		BOLT, MACHINE, 5/8", LENGTH AS REQ'D.
	16		GRIP, PREFORM FOR STEEL GUY WIRE,
			SIZE AS REQ'D.
	4		INSULATOR, FIBERGLASS LINK STICK,
			SIZE AS REQ'D.
	4		WASHER, CURVED, 4"X4"
	AS REQ'D.		WIRE, GUY, UTILITY GRADE STEEL



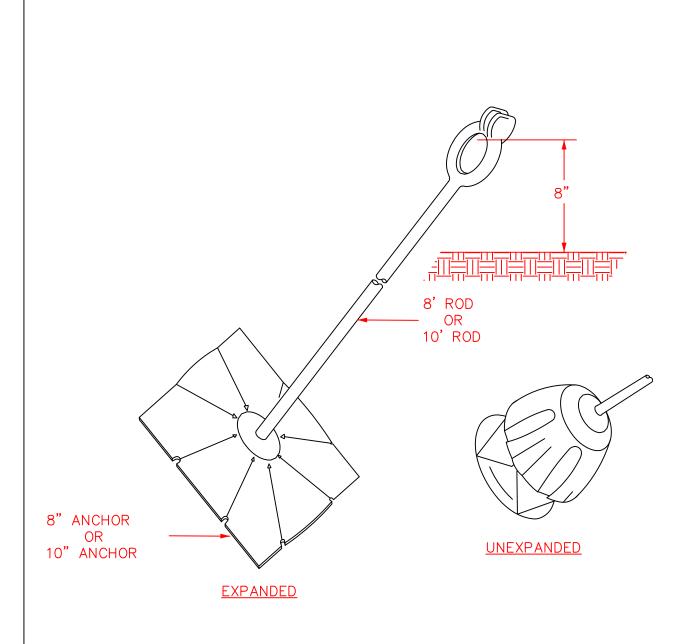
NOTE: FIBERGLASS LINK SHOULD BE INSTALLED BELOW ENERGIZED AREA, BUT ABOVE PEDESTRIAN REACH. (MIN. 10' ABOVE GROUND)

GUY STRAIN INSULATOR INSTALLATION



DATE: OCTOBER, 1992

REVISIONS <u>JULY, 2002</u> JANUARY, 2007



INSTALLATION OF EXPANDING ANCHOR

ECG
electric cities of georgia

REVISIONS JULY, 2002

F1-E

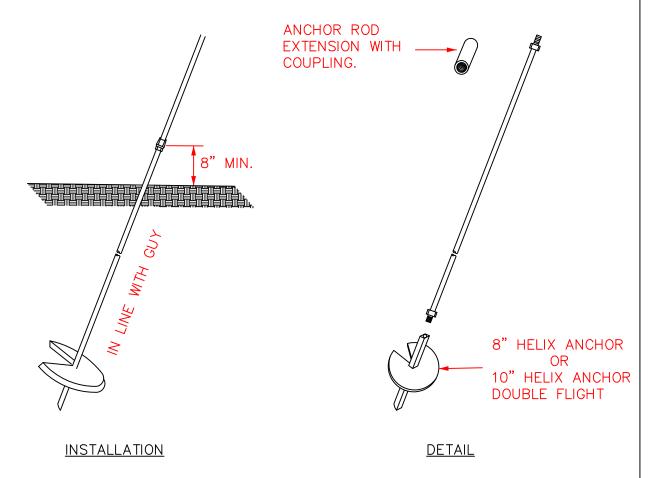
ELECTRIC CITIES OF GEORGIA

INSTALLATION OF EXPANDING ANCHOR

F1-E

ITEM	QUANTITY	STOCK No.	MATERIAL
	1		ANCHOR, 8 HELIX, EXPANDING TYPE
	1		ROD, ANCHOR 8'

ANCHOR ROD
WITH MINIMUM TWIN
EYE NUT.



INSTALLATION OF SCREW ANCHOR

ECG
electric cities of georgia

REVISIONS JULY, 2002

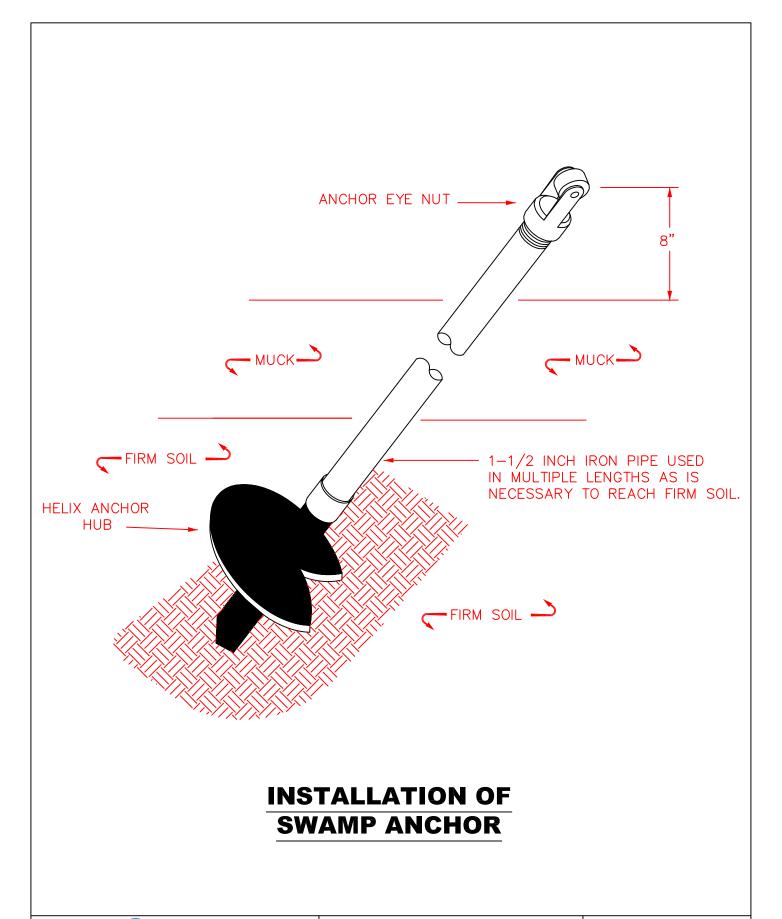
F1-S

ELECTRIC CITIES OF GEORGIA

INSTALLATION OF SCREW ANCHOR

F1-S

ITEM	QUANTITY	STOCK NO.	MATERIAL
	1		ANCHOR, 8 HELIX, SCREW TYPE
	1		ROD, ANCHOR 8'



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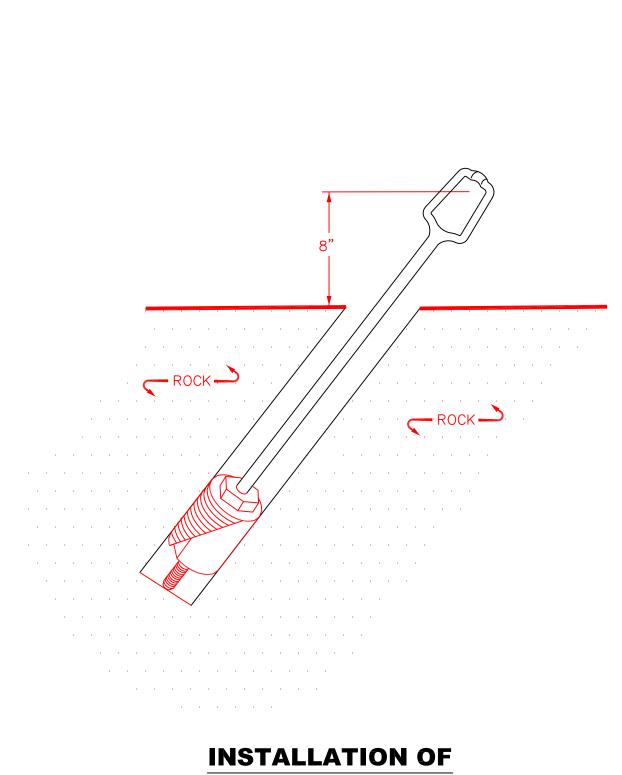
F4

ELECTRIC CITIES OF GEORGIA

INSTALLATION OF SWAMP ANCHOR

F4

ITEM	QUANTITY	STOCK NO.	MATERIAL
	1		ANCHOR, SWAMP
	1		NUT, ANCHOR EYE
	AS REQ'D.		PIPE, GALVANIZED, 1-1/2"



ROCK ANCHOR

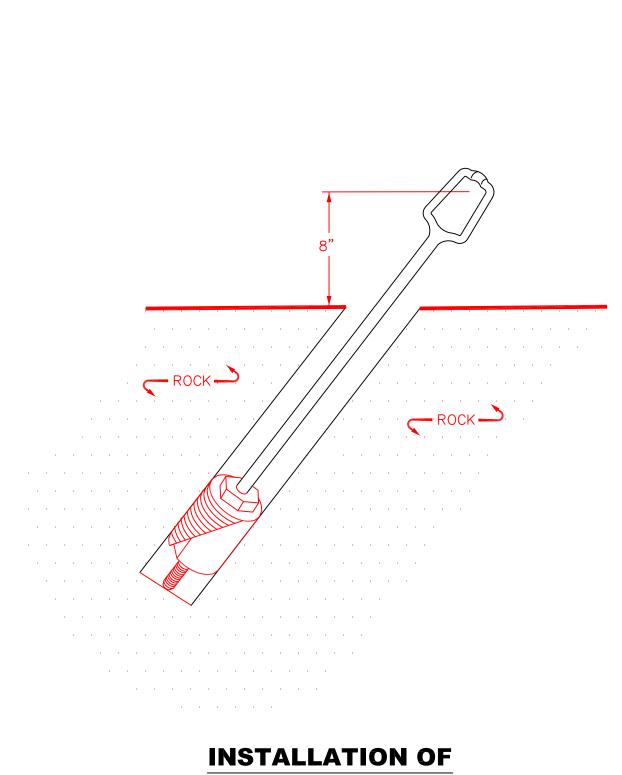
electric cities of georgia	REVISIONS JULY, 2002	F 5
OATE: OCTOBER, 1992		

ELECTRIC CITIES OF GEORGIA

ROCK ANCHOR

F5

ITEM	QUANTITY	STOCK NO.	MATERIAL
	1		ANCHOR, ROCK
	1		ROD, ANCHOR 8'



ROCK ANCHOR

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ELECTRIC CITIES OF GEORGIA

ROCK ANCHOR

F5

ITEM	QUANTITY	STOCK NO.	MATERIAL
	1		ANCHOR, ROCK
	1		ROD, ANCHOR 8'

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							BOCK
SOIL CLASS NO.	SOIL CLASSIFICATION	8" EXPANDING	8" SCREW	11 5/16" SCREW	8" SQUARE	10" SWAMP ANCHOR	ANCHOR 3/4" DIA. ROD
CLASS 1	ROCK	23,000	23,000	23,000	23,000	X	23,000
CLASS 2	HARDPAN: VERY DENSE SAND: SANDSTONE	23,000	23,000	23,000	23,000	*	*
CLASS 3	HARDCLAY: DENSE SAND: BROKEN BED ROCK	23,000	18,000	23,000	18,000	*	*
CLASS 4	CLAPAN: MEDIUM DENSE SAND: SANDY GRAVEL	20,000	14,000	20,000	14,000	*	*
CLASS 5	VERY STIFF CLAY: MEDIUM SAND	16,000	10,000	16,000	*	*	
CLASS 6	STIFF-VERY STIFF CLAY: MEDIUM FINE TO COARSE SAND	12,000	6,000	12,000	*	*	*
CLASS 7	LOOSE FINE SAND	10,000	6,000	10,000	*	X	*
CLASS 8	SWAMP AND MARSHES	*	*	*	X	000,6	*

ANCHORING APPLICATION GUIDE

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CLASS SOIL. 23,000 LBS.

* NOT PRACTICAL TO INSTALL IN THIS NOTE 3/4" ROD HAS AN ULTIMATE STRENGTH OF