

Flint nergies

Your Touchstone Energy® Cooperative 

New Residential Service Requiring Construction

What you should know about having
service connected to your new home

Visit us at
www.flintenergies.com



**Know what's below.
Call before you dig**

New Residential Service Requiring Construction

Flint Energies strives to provide excellent service in each phase of our business. When you receive electric service you become a Flint member, an owner of the Cooperative. We want your experience with use to be timely and hassle-free. You can help by being aware of and completing the following:

Methods to apply for service

- By phone with a Member Service Representative
- Use automated voice response on our phone system
- Internet by visiting www.flintenergies.com
- Visit a Flint office location: Warner Robins, Perry, Reynolds or Upatoi

Fees & deposits:

- A small membership fee and set-up fee is required
- Based on credit check, a deposit may be required
- If temporary service is required for construction, a temporary service fee is applicable

Service Rules & Regulations

Your new service, and any associated fees and deposits, are governed by Flint Energies' ***Service Rules and Regulations***. For a complete copy of Flint's ***Service Rules and Regulations***, please visit <http://www.flintenergies.com/documents/RuleSnRegs.pdf>.

Service location

For urban areas, Flint needs the lot and block numbers in addition to the street address. For members living in the rural areas, it is a great help to provide the nearest pole tag number closest to the location of your new service. Each pole should have a silver six digit tag installed at eye level. This number is unique to the pole you have located and can help guide a Field Technician to your new service location.

Overhead or underground service?

If your service is underground, construction charges may be applicable and can vary based on the type and amount of construction involved.

What is the size of your new home?

In order to properly size your new service, the Field Technician will need to know certain details about your new residence including:

- Total size of the house (square footage)
- Heated and cooled area (square footage)
- Number, type and size of HVAC units
- Will major appliances be gas or electric?
- Ampacity of the service entrance equipment and number of service panels and disconnects
- Plans for any additional outlying building such as shops or garages.
- Details of any unique equipment that you will install that is not covered above.

Outdoor lighting

Flint Energies offers outdoor lighting at very affordable rates. Ask about options with your new service.

Meeting with a Field Technician

Members may need to meet with a Flint Energies Field Technician to discuss your new service. An appointment may be made with Flint to discuss where the new service will be placed, trees that may need to be cut or trimmed, right of way easements and any construction charges that may be applicable. The Field Technician will also discuss the location of your temporary service, if required, and possible locations and cost for any outdoor lighting you may desire.

If your home is located in a residential subdivision, check with the developer to see if the underground has been “pre-paid.” Homes located in subdivisions are required to have the service entrance equipment (meter socket) located on a specific side of the house.

Inspections

Please contact your local city or county building inspector for their requirements regarding your home’s electric system. An electric inspector must inspect and provide a “clearance” to Flint before we can provide power to your new home. A list with your local inspector’s phone number is shown below.

Bibb County	(478) 751-7280	Peach County	(478) 825-5118
City of Byron	(478) 956-2411	City of Perry	(478) 988-2720
City of Centerville	(478) 953-3222	Schley County	(229) 937-2680
Crawford County	(478) 836-3199	Sumter County	(229) 928-4547
Harris County	(706) 628-4700	Talbot County	(706) 665-8334
Houston County	(478) 542-2018	Taylor County	(478) 862-3809
City of Geneva	(706) 269-3113	Twiggs County	(478) 945-6563
Macon County	(478) 472-7023	Upton County	(706) 647-1297
Marion County	(229) 649-5670	City of Warner Robins	(478) 929-6943
Muscogee County	(706) 653-4126		

Temporary service for construction

Some counties and cities require inspection of temporary service installations. If you are building in a residential subdivision, Flint has placed a service stub-up at the corner of your lot. You will have to install your temporary service at this location.

Overhead temporary service installations require the use of a 25 ft., class 6 round wooden pole.

Installation of your permanent service

Contact Flint Energies for the correct location for your home’s permanent meter base. Normally, for service drops only, it takes one to two weeks for Flint Energies to install a service to a home. If a primary high voltage line must be built, it typically takes two to three weeks under normal circumstances. Should Flint be required to cut trees and obtain property easements from other land owners, service is provided as soon as possible. Plan enough time in your construction project to allow Flint to extend service to your new residence. Please keep your electrician informed of the progress with the installation of your service. It is Flint’s goal to meet your needs in a timely manner.

Grounding

An important aspect of your home's electrical system is grounding. The grounding requirements for your electrical installation are addressed in **Article 250** of the **2011 National Electric Code**. However, Flint Energies' requirements may be more stringent than that of the **2011 National Electric Code** due to system conditions.

Article 250 requires a minimum ground resistance of 25 ohms or two ground rods must be installed at the service instead of one. Due to soil conditions in Flint's service area, ground resistance readings seldom reach 25 ohms with one ground rod. For this reason, Flint Energies requires the minimum installation of two (2) ground rods installed a minimum of six feet apart. The recommended ground system is to install three ground rods spaced 16 feet apart in a triangle arrangement.

Where a concrete slab with reinforcing rod is used as the foundation, the concrete encased re-bar may be used as a part of the grounding system provided the requirements of the National Electric Code are met. If the concrete encased re-bar is used as a part of the grounding system, Flint will permit the use of a single driven ground rod.

Important Grounding Requirement

Flint Energies considers the driven ground rod to be the primary grounding electrode. As such, the grounding electrode conductor shall originate at the meter socket and extend in a continuous manner to the grounding electrode (ground rod). The grounding electrode conductor shall be sized in accordance with the 2011 National Electrical Code, Article 250.66 & Table 250.66. Where multiple sets of service entrance conductors are used, the equivalent size of the largest service entrance conductor shall be determined by the largest sum of the areas of the corresponding conductors of each set.

Check your main disconnect and breaker box

When Flint Energies set the electric meter on your home, your main disconnect or breaker is turned to the "off" position. Change this to the "on" position when you are ready for service. However, before moving it to the "on" position, be sure to check that your installed electrical appliances are turned off and will not start unexpectedly.

To contact Flint Energies

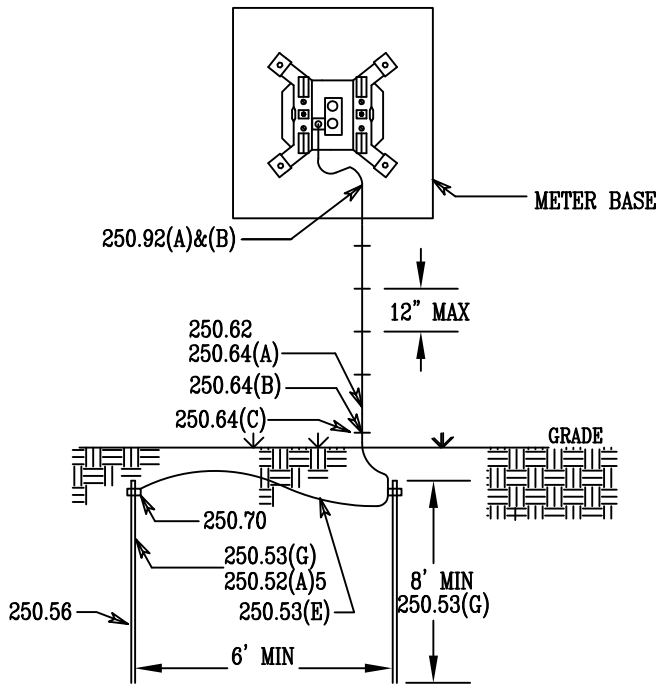
- Bibb, Houston and Peach Counties (478) 988-3500
- Crawford and Taylor Counties (478) 847-3416
- Muscogee County (706) 568-0333
- All other counties (800) 342-3616
- For Power Outages (888) 354-6836

National Electric Code Requirements & Installation Drawings

All references based on NEC 2011

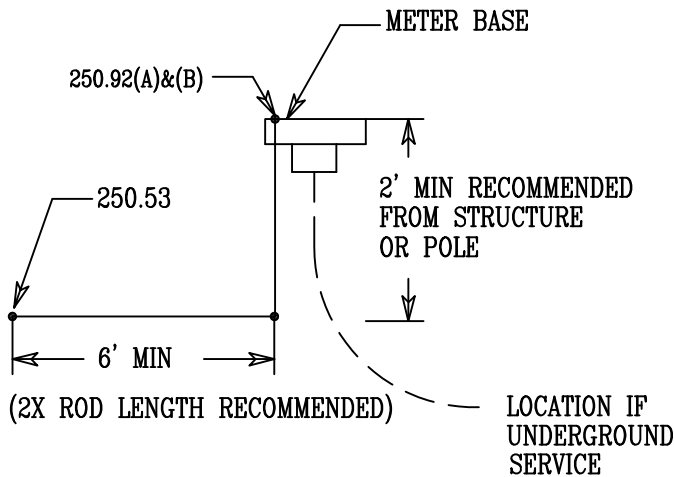
FLINT ENERGIES SERVICE GROUNDING REQUIREMENT

REQUIRED



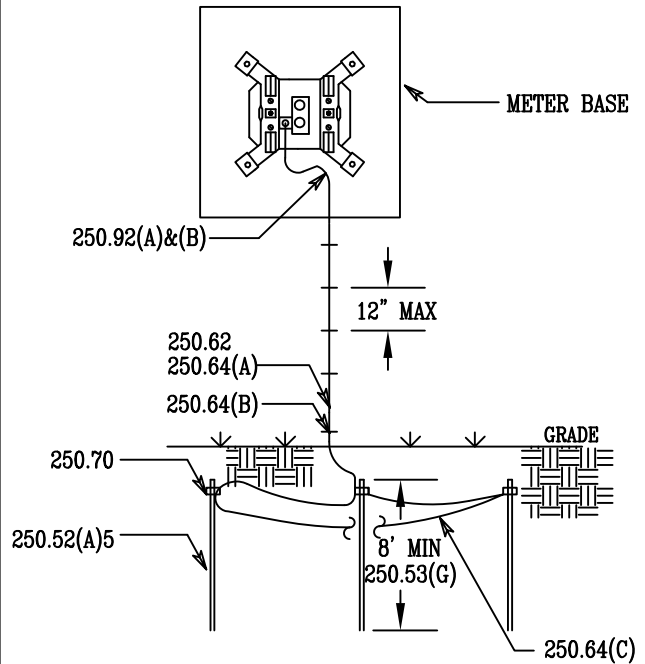
MINIMUM TWO RODS
REQUIRED PER NEC 250.53

2 ROD AERIAL VIEW



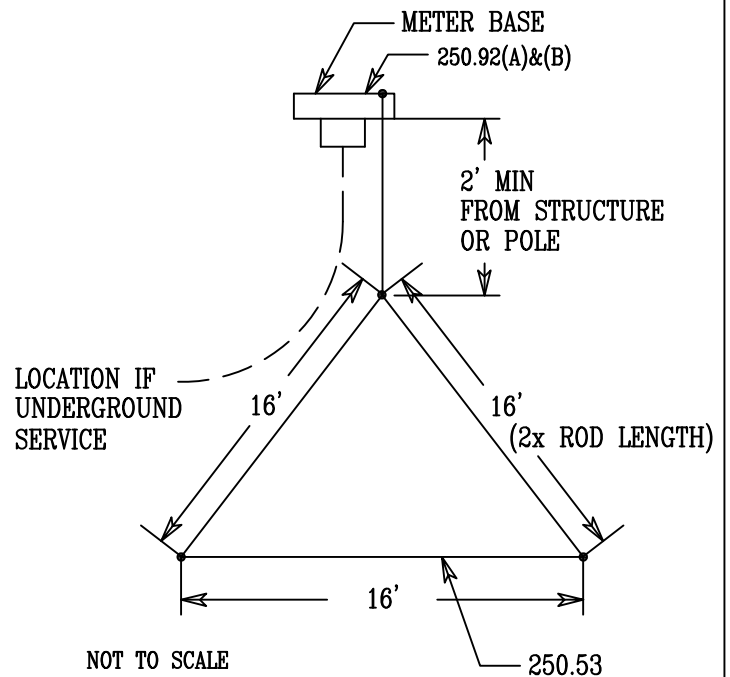
NOT TO SCALE

RECOMMENDED



THIRD ROD RECOMMENDED FOR
BEST GROUNDING

3 ROD AERIAL VIEW



NOT TO SCALE

DATE:
4/9/02

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NEWGROUND.DWG



FLINT ENERGIES
900 HWY 96
WARNER ROBINS, GA 31088

DWG # GND

REV:
2/2012

DWN BY:
CLB

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NEC TABLE 250.66 GROUNDING ELECTRODE CONDUCTOR FOR ALTERNATING-CURRENT SYSTEMS


SIZE OF LARGEST UNGROUNDED SERVICE-ENTRANCE CONDUCTOR OR EQUIVALENT AREA FOR PARALLEL CONDUCTORS (AWG/kcmil)		SIZE OF GROUNDING ELECTRODE CONDUCTOR (AWG/kcmil)	
COPPER	ALUMINUM OR COPPER-CLAD ALUMINUM	COPPER	ALUMINUM OR COPPER-CLAD ALUMINUM
2 OR SMALLER	1/0 OR SMALLER	8	6
1 OR 1/0	2/0 OR 3/0	6	4
2/0 OR 3/0	4/0 OR 250	4	2
OVER 3/0 THROUGH 350	OVER 250 THROUGH 500	2	1/0
OVER 350 THROUGH 600	OVER 500 THROUGH 900	1/0	3/0
OVER 600 THROUGH 1100	OVER 900 THROUGH 1750	2/0	4/0
OVER 1100	OVER 1750	3/0	250

NOTES:

REFER TO THE NFPA NEC 2011 FOR COMPLETE DEFINITIONS
 DEFINITIONS ARE ABBREVIATED FOR CLARITY AND SOMETIMES WITH ONLY PREFERRED ALTERNATIVES LISTED
 GROUNDING ELECTRODE (ROD OR PIPE) IS REFERRED TO AS ROD FOR CLARITY
 GROUNDING ELECTRODE CONDUCTOR IS REFERRED TO AS "GROUND WIRE" FOR CLARITY

- 250.52(A)5 ROD MUST BE EIGHT (8) FEET LONG
 PIPE OR CONDUIT ELECTRODES MUST BE MIN. 3/4" DIA. GALVANIZED OR METAL COATED
 RODS OF IRON OR STEEL MUST BE MIN. 5/8" DIA.
 STAINLESS STEEL OR NONFERROUS RODS MUST BE MIN. 1/2" DIA.
- 250.53(G) RODS MUST BE IN CONTACT WITH AT LEAST 8" FEET OF EARTH
 RODS MUST BE DRIVEN TO A DEPTH OF 8 FEET. SEE ARTICLE 250.53(G) WHEN ROCK IS ENCOUNTERED
- 250.53(A2) ROD MUST HAVE A RESISTANCE TO GROUND OF 25 OHMS OR LESS, IF NOT, AT LEAST ONE SUPPLEMENTAL
 ROD IS REQUIRED
- 250.62 GROUND WIRE SHOULD BE COPPER AND MAY BE SOLID, STRANDED, INSULATED OR BARE
- 250.64(A) ALUMINUM OR COPPER-CLAD GROUND WIRE MAY NOT BE USED IN CORROSIVE AREAS OR IN CONTACT
 WITH MASONRY
- 250.64(B) GROUND WIRE MUST BE SECURELY FASTENED TO ITS MOUNTING SURFACE AND WHERE EXPOSED PROTECTED
 FROM PHYSICAL DAMAGE
- 250.64 (C) GROUND WIRE MUST BE CONTINUOUS WITH NO SPLICES UNLESS JOINED BY AND IRREVERSIBLE CONNECTOR
- 250.70 GROUND WIRE MUST BE BONDED BY A "LISTED" CLAMP, EXOTHERIC WELD OR COMPRESSION TYPE CONNECTOR
 BONDING MUST BE "LISTED" FOR LOCATION (BURIAL, ETC.) AND NUMBER OF CONDUCTORS
- 250.92(A) GROUND WIRE MUST BOND TO EQUIPMENT CASINGS
- 250.92(B) GROUND WIRE MUST BE BONDED TO THE GROUNDED SERVICE CONDUCTOR (NEUTRAL)

** WHERE MULTIPLE SETS OF SERVICE ENTRANCE CONDUCTORS ARE USED, THE GROUND WIRE MUST BE SIZED
 BASED ON THE EQUIVALENT AREA OF THE ADDITIONAL CONDUCTORS. SEE PAGE 3 OF 3 FOR CLARITY

DATE: 4/9/02	FILE: NEWGROUND.DWG		FLINT ENERGIES 900 HWY 96 WARNER ROBINS, GA 31088	DWG # GND
REV: 2/2012	DWN BY: CLB		SHEET 2 OF 3	

Important Grounding Requirement

Flint Energies considers the driven ground rod to be the primary grounding electrode. As such, the grounding electrode conductor shall originate at the meter socket and extend in a continuous manner to the grounding electrode (ground rod). The grounding electrode conductor shall be sized in accordance with the 2011 National Electrical Code, Article 250.66 & Table 250.66. Where multiple sets of service entrance conductors are used, the equivalent size of the largest service entrance conductor shall be determined by the largest sum of the areas of the corresponding conductors of each set.

WHERE MULTIPLE SETS OF SERVICE ENTRANCE CONDUCTORS ARE USED, THE GROUNDING ELECTRODE CONDUCTOR MUST BE SIZED BASED ON THE EQUIVALENT CROSS SECTIONAL AREA OF THE SERVICE ENTRANCE CONDUCTORS. PLEASE UTILIZE THE TABLE SHOWN BELOW TO SUM UP THE EQUIVALENT CROSS SECTIONAL AREA FOR THE MULTIPLE SERVICE ENTRANCE CONDUCTORS. CROSS REFERENCE THE EQUIVALENT CROSS SECTIONAL AREA WITH TABLE 250.66 TO SIZE THE GROUNDING ELECTRODE CONDUCTOR.

Conversion from AWG to CMIL (Table 8, Chapter 9 pg. 1320 from the 2011 NEC)				
AWG	cmil		kcmil	cmil
12	6,530		250	250,000
10	10,380			
			300	300,000
8	16,510			
6	26,240		350	350,000
4	41,740		400	400,000
3	52,620			
			500	500,000
2	66,360			
1	83,690		600	600,000
1/0	105,600		750	750,000
2/0	133,100			
			800	800,000
3/0	167,800			
4/0	211,600		1000	1,000,000

DATE:
2/2012

FILE:
NEWGROUND.DWG



FLINT ENERGIES
900 HWY 96
WARNER ROBINS, GA 31088

DWG # GND

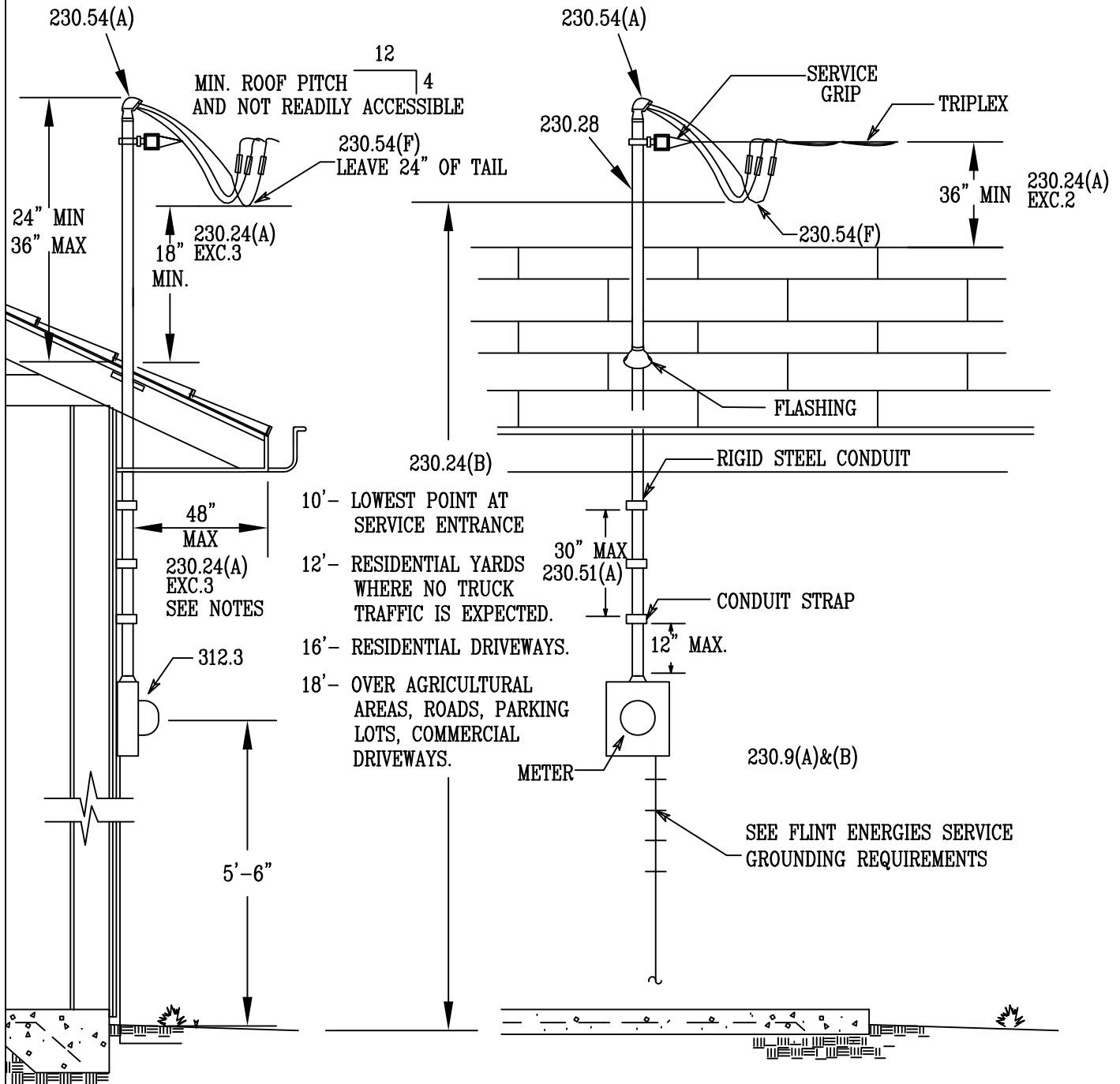
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JR

SHEET 3 OF 3


OVERHEAD SERVICE REQUIREMENTS

(ALL REFERENCES FROM NEC 2011- EXAMPLE: 230.XX)



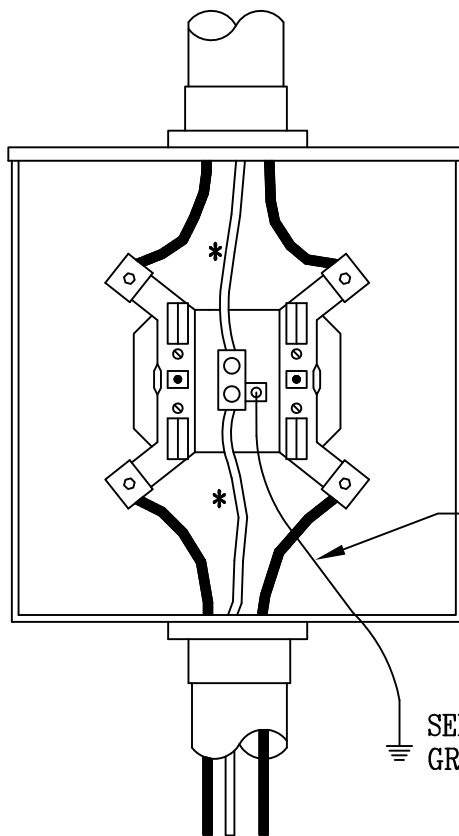
NOT TO SCALE

SEE ALSO: 230.24 CLEARANCES

DATE: 11/6/98	FILE: OVERHEADSVC.DWG		FLINT ENERGIES 900 HWY 96 WARNER ROBINS, GA. 31088	DWG # OHH
REV: 2/2012	DWN BY: C.L.B.		SHEET 1 OF 2	

OVERHEAD SERVICE REQUIREMENTS

TABLE 310.15(B)(7)		
CONDUCTOR TYPES: SE		
CONDUCTOR (AWG OR kcmil)		
COPPER	ALUMINUM OR COPPER-CLAD	ALUMINUM SERVICE OR FEEDER RATING
4	2	100
1	2/0	150
2/0	4/0	200
400	600	400



OVERHEAD METER SOCKET PROVIDED BY FLINT EMC AND INSTALLED BY CONSUMER'S ELECTRICIAN.

* NEUTRAL

250.92(A)
250.92(B)

CONSUMER TO PROVIDE GROUNDING ELECTRODE CONDUCTOR TO CONNECT FROM THE GROUNDING LUG IN THE METER BASE TO THE GROUND ROD.

SEE FLINT ENERGIES SERVICE GROUNDING REQUIREMENTS

NOT TO SCALE

NOTES:

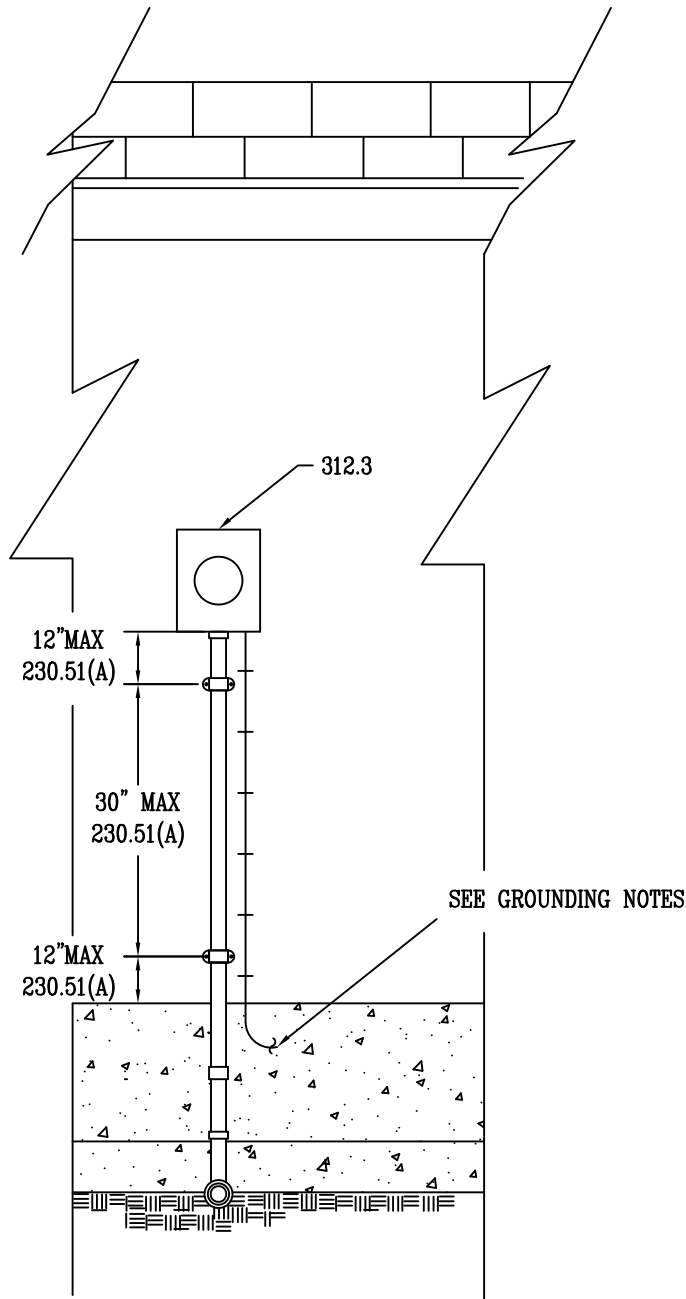
REFER TO THE NFPA NEC 2011 FOR COMPLETE DEFINITIONS
DEFINITIONS ARE ABBREVIATED FOR CLARITY AND SOMETIMES WITH ONLY PREFERRED ALTERNATIVES LISTED

- 230.24(A) EXCEPTION 2: THE SERVICE ENTRANCE CABLES MAY BE REDUCED TO A MINIMUM OF 36" ABOVE THE ROOF PROVIDED THEY DO NOT EXCEED 300 VOLTS BETWEEN THE CONDUCTORS AND THE ROOF MUST NOT BE READILY ACCESSIBLE (4/12 PITCH)
- 230.24(A) EXCEPTION 3: THE SERVICE ENTRANCE CABLES MAY BE REDUCED TO A MINIMUM OF 18" ABOVE THE ROOF PROVIDED THEY DO NOT EXCEED 300 VOLTS BETWEEN THE CONDUCTORS AND THE ROOF MUST NOT BE READILY ACCESSIBLE (4/12 PITCH) AND THE OVERHANG IS LESS THAN 48 INCHES AND THE FINAL SERVICE RUN DOES NOT TRAVEL ACROSS MORE THAN 6 FEET OF THE ROOF
- 230.24(B) SERVICE DROPS LESS THAN 600 VOLTS MUST MEET THESE CLEARANCE REQUIREMENTS
- 230.9(A) SERVICE ENTRANCE EQUIPMENT OR CABLES MUST BE A MINIMUM OF 3 FEET FROM ANY OPENING (WINDOW OR DOOR) INCLUDING PORCHES, STAIRS, ETC.
- 230.9(B) ANY FINAL RUN CABLES MEETING 230.9 MUST MEET 230.24(B)
- 230.28 SERVICE MAST SHALL HAVE ADEQUATE STRENGTH TO WITHSTAND THE SERVICE DROP CONDUCTOR LOAD
SERVICE MAST SHALL BE 2" MINIMUM TRADE SIZE
SERVICE MAST SHALL NOT HAVE ANY JOINTS ABOVE THE ROOF LINE
SERVICE MAST OVER 36" SHALL BE SECURELY GUYED
- 230.51(A) SERVICE ENTRANCE CABLES OR RACEWAY MUST BE SUPPORTED ALONG ITS LENGTH
MUST BE SUPPORTED WITHIN 12" OF ENTERING THE ROOF AND SERVICE EQUIPMENT
MUST BE SUPPORTED AT INTERVALS NOT LESS THAN 30" ALONG ITS LENGTH
- 230.54(A) WEATHERHEAD MUST BE RAIN TIGHT
- 250.92(A) GROUND WIRE MUST BOND TO EQUIPMENT CASINGS
- 250.92(B) GROUND WIRE MUST BE BONDED TO THE GROUNDED SERVICE CONDUCTOR (NEUTRAL)

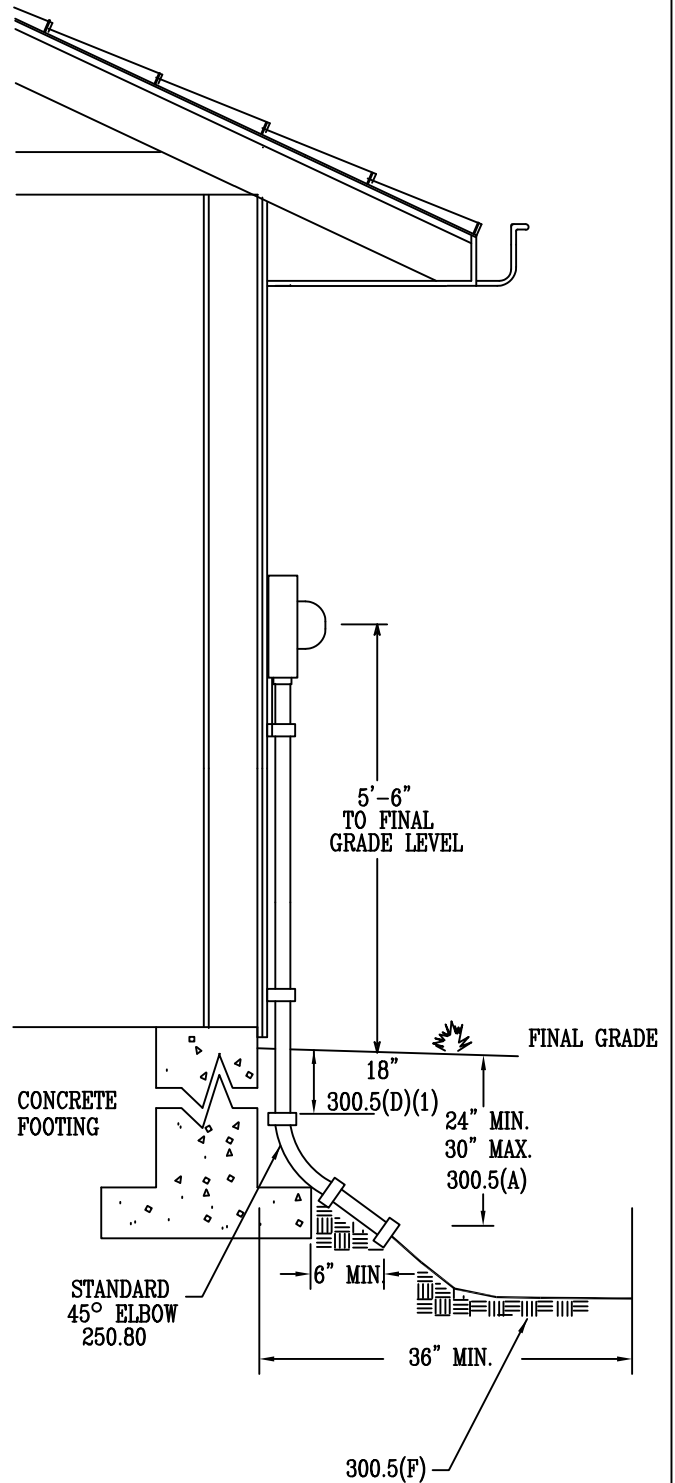
DATE: 11/6/98	FILE: OVERHEADSVC.DWG		FLINT ENERGIES & 900 HWY 96 WARNER ROBINS, GA. 31088	DWG #	OHH
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UNDERGROUND SERVICE REQUIREMENTS

(ALL REFERENCES FROM NEC 2011- EXAMPLE 230.XX)



NOT TO SCALE



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FLINT ENERGIES
 900 HWY 96
 WARNER ROBINS, GA 31088

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UNDERGROUND SERVICE REQUIREMENTS

TABLE 310.15(B)(7)

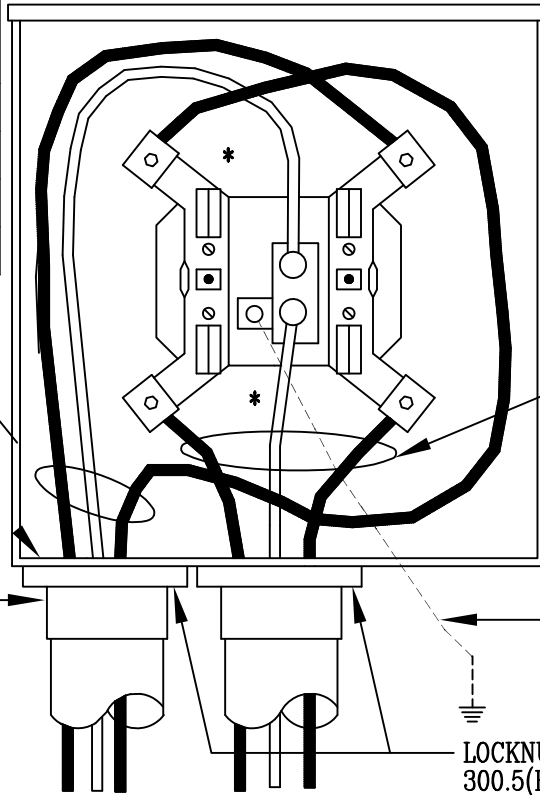
CONDUCTOR TYPES: USE

CONDUCTOR (AWG OR kcmil)		
COPPER	ALUMINUM OR COPPER-CLAD	ALUMINUM SERVICE OR FEEDER RATING
4	2	100
1	2/0	150
2/0	4/0	200
400	600	400

FLINT EMC WILL FURNISH AND CONNECT THESE WIRES.

CUSTOMER INSTALLED CONDUIT. FLINT EMC REQUIRES 2" CONDUIT MIN. 2 1/2" CONDUIT PREFERRED.

NOT TO SCALE



* NEUTRAL

METER BASE PROVIDED BY FLINT EMC. INSTALLED BY CUSTOMER'S ELECTRICIAN.

MEMBER CONNECTIONS

250.92(A)
250.92(B)
CONSUMER TO PROVIDE GROUNDING ELECTRODE CONDUCTOR TO CONNECT FROM THE GROUNDING LUG IN THE METER BASE TO THE GROUND ROD

LOCKNUT AND BUSHING
300.5(H)

NOTES:

REFER TO THE NFPA NEC 2011 FOR COMPLETE DEFINITIONS
DEFINITIONS ARE ABBREVIATED FOR CLARITY AND SOMETIMES WITH ONLY PREFERRED ALTERNATIVES LISTED

- 230.51(A) SERVICE ENTRANCE CABLES OR RACEWAY MUST BE SUPPORTED ALONG ITS LENGTH
MUST BE SUPPORTED WITHIN 12" OF THE METER BASE AND EQUIPMENT
MUST BE SUPPORTED AT INTERVALS NOT LESS THAN 30" ALONG ITS LENGTH
- 250.80 EXCEPTION: A METAL ELBOW MAY BE USED WHEN BURIED A MINIMUM OF 18 INCHES
- 250.92(A) GROUND WIRE MUST BOND TO EQUIPMENT CASINGS
- 250.92(B) GROUND WIRE MUST BE BONDED TO THE GROUNDED SERVICE CONDUCTOR (NEUTRAL)
- 300.5(A) DIRECT BURIED SERVICE ENTRANCE CABLES MUST BE BURIED A MINIMUM OF 24" BELOW FINAL GRADE
SERVICE ENTRANCE CABLES IN CONDUIT MAY BE BURIED A MINIMUM OF 18" BELOW FINAL GRADE
SEE NEC TABLE 300.5 FOR SPECIFICS
- 300.5(D)1 CABLES EMERGING FROM GRADE MUST BE PROTECTED A MINIMUM OF 18" BELOW FINAL GRADE
- 300.5(H) A BUSHING OR FITTING WITH LOCKNUT REQUIRED TO TERMINATE CONDUIT TO ENCLOSURE
- 312.3 ON MASONRY WALLS METER BASE MAY BE RECESSED
WHEN MOUNTED ON COMBUSTIBLE MATERIALS METER BASE MUST BE MOUNTED FLUSH

DATE:
11/6/98

FILE:
UNDERGROUND SVC.DWG



FLINT ENERGIES

900 HWY 96
WARNER ROBINS, GA. 31088

DWG # UGH

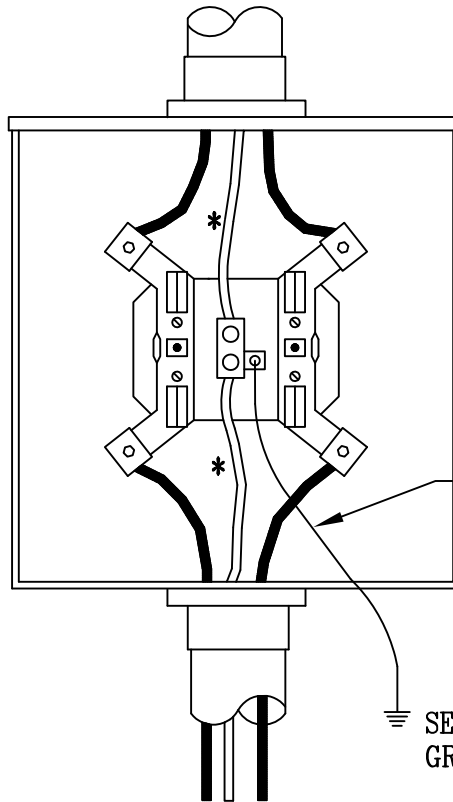
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2/2012

DWN BY:
C.L.B.

SHEET 2 OF 2

MANUFACTURED HOME OVERHEAD SERVICE REQUIREMENTS

TABLE 310.15(B)(6)		
CONDUCTOR TYPES: SE		
CONDUCTOR (AWG OR kcmil)		
COPPER	ALUMINUM OR COPPER-CLAD	ALUMINUM SERVICE OR FEEDER RATING
4	2	100
1	2/0	150
2/0	4/0	200
400	600	400



OVERHEAD METER SOCKET PROVIDED BY FLINT EMC AND INSTALLED BY CONSUMER'S ELECTRICIAN.

* NEUTRAL

250.92(A)
250.92(B)
CONSUMER TO PROVIDE GROUNDING ELECTRODE CONDUCTOR TO CONNECT FROM THE GROUNDING LUG IN THE METER BASE TO THE GROUND ROD.

SEE FLINT ENERGIES SERVICE GROUNDING REQUIREMENTS

NOT TO SCALE

NOTES:

REFER TO THE NFPA NEC 2011 FOR COMPLETE DEFINITIONS
DEFINITIONS ARE ABBREVIATED FOR CLARITY AND SOMETIMES WITH ONLY PREFERRED ALTERNATIVES LISTED
POLE HEIGHT MIN 25' CLASS POLE MIN 6

230.24(B) SERVICE DROPS LESS THAN 600 VOLTS MUST MEET THESE REQUIREMENTS

230.51(A) SERVICE ENTRANCE CABLES OR RACEWAY MUST BE SUPPORTED ALONG ITS LENGTH
MUST BE SUPPORTED WITHIN 12" OF THE WEATHERHEAD AND EQUIPMENT
MUST BE SUPPORTED AT INTERVALS NOT LESS THAN 30" ALONG ITS LENGTH

230.54(A) WEATHERHEAD MUST BE RAIN-TIGHT

230.54(C) WEATHERHEAD MUST BE LOCATED ABOVE SERVICE DROP CABLES
EXCEPTION: WHERE BEING ABOVE SERVICE DROP CABLES IS IMPRACTICABLE, BELOW IS SUFFICIENT, BUT NOT MORE THAN 24"

250.80 EXCEPTION: A METAL ELBOW MAY BE USED WHEN BURIED A MINIMUM OF 18 INCHES

250.92(A) GROUND WIRE MUST BOND TO EQUIPMENT CASINGS

250.92(B) GROUND WIRE MUST BE BONDED TO THE GROUNDED SERVICE CONDUCTOR (NEUTRAL)

300.5(A) DIRECT BURIED SERVICE ENTRANCE CABLES MUST BE BURIED A MINIMUM OF 24" BELOW FINAL GRADE
SERVICE ENTRANCE CABLES IN CONDUIT MAY BE BURIED A MINIMUM OF 18" BELOW FINAL GRADE
SEE NEC TABLE 300.5 FOR SPECIFICS

550.32(A) SERVICE EQUIPMENT (DISCONNECT) MUST NOT BE GREATER THAN 30 FEET FROM THE OUTSIDE DWELLING WALL AND MUST BE IN PLAIN SIGHT

550.32(B) SERVICE EQUIPMENT (DISCONNECT) MAY BE INSTALLED ON THE DWELLING IF....

1-MANUFACTURER PROVIDES WRITTEN SERVICE ENTRANCE INSTRUCTIONS, AND

2-INSTALLATION COMPLIES WITH NEC ARTICLE 230, AND

3-GROUNDING TO THE SERVICE ENTRANCE EQUIPMENT CAN BE DONE OUTSIDE, AND

4-BONDING AND GROUNDING COMPLIES WITH THE NEC ARTICLE 250, AND

5-MANUFACTURER PROVIDES WRITTEN INSTRUCTIONS FOR GROUNDING, AND

6-MANUFACTURER SPECIFIES THE MINIMUM GROUNDING ELECTRODE CONDUCTOR SIZE, AND

7-A RED WARNING LABEL IS MOUNTED ON OR NEXT TO THE SERVICE ENTRANCE EQUIPMENT

DATE:
11/6/98

FILE:
MANUFACTUREDHOME.DWG



FLINT ENERGIES

DWG # OHMH

REV:
2/2012

DWN BY:
C.L.B.

900 HWY 96
WARNER ROBINS, GA. 31088

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MANUFACTURED HOME TYPICAL UNDERGROUND INSTALLATION

(ALL REFERENCES FROM NEC 2011- EXAMPLE: 230.XX)

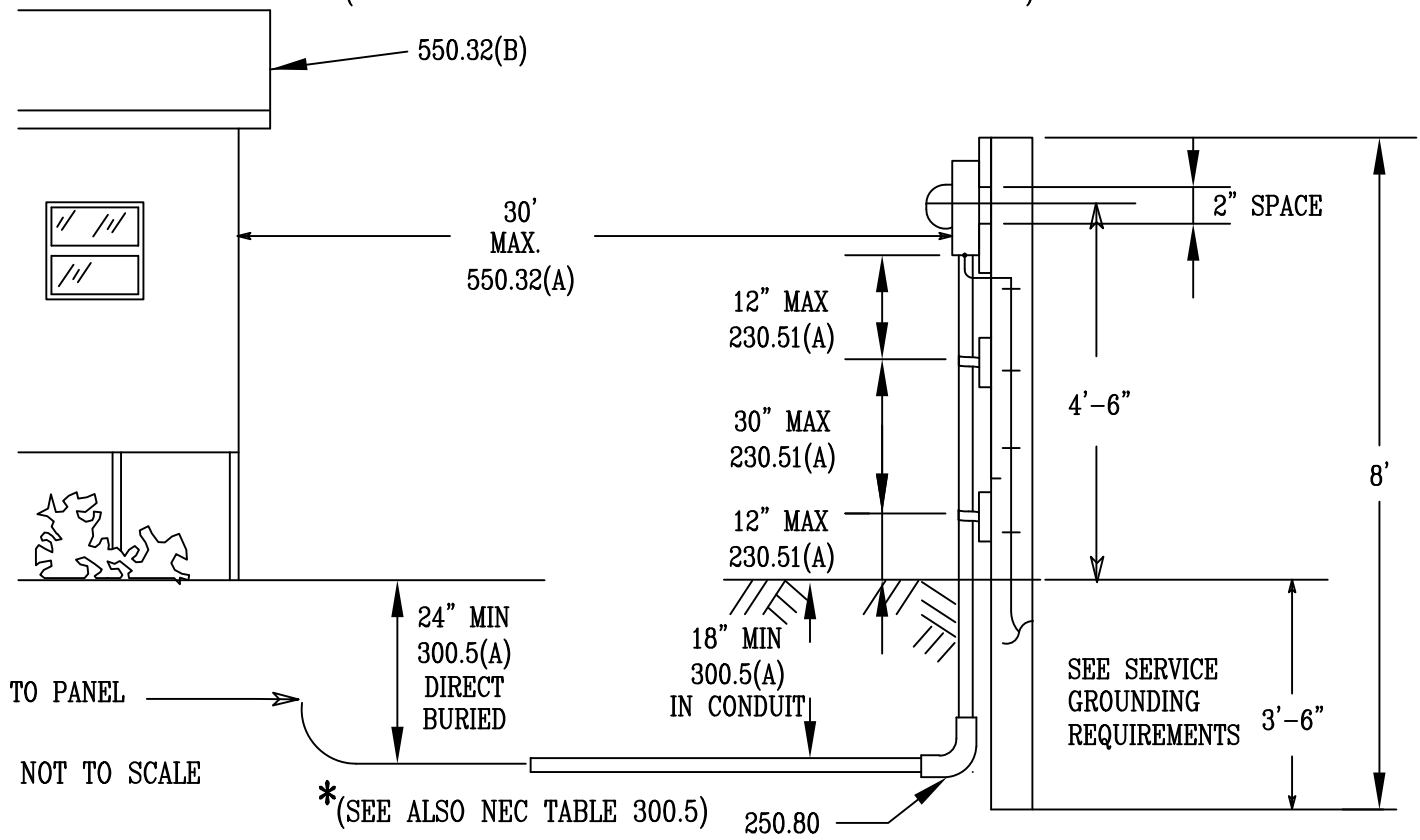
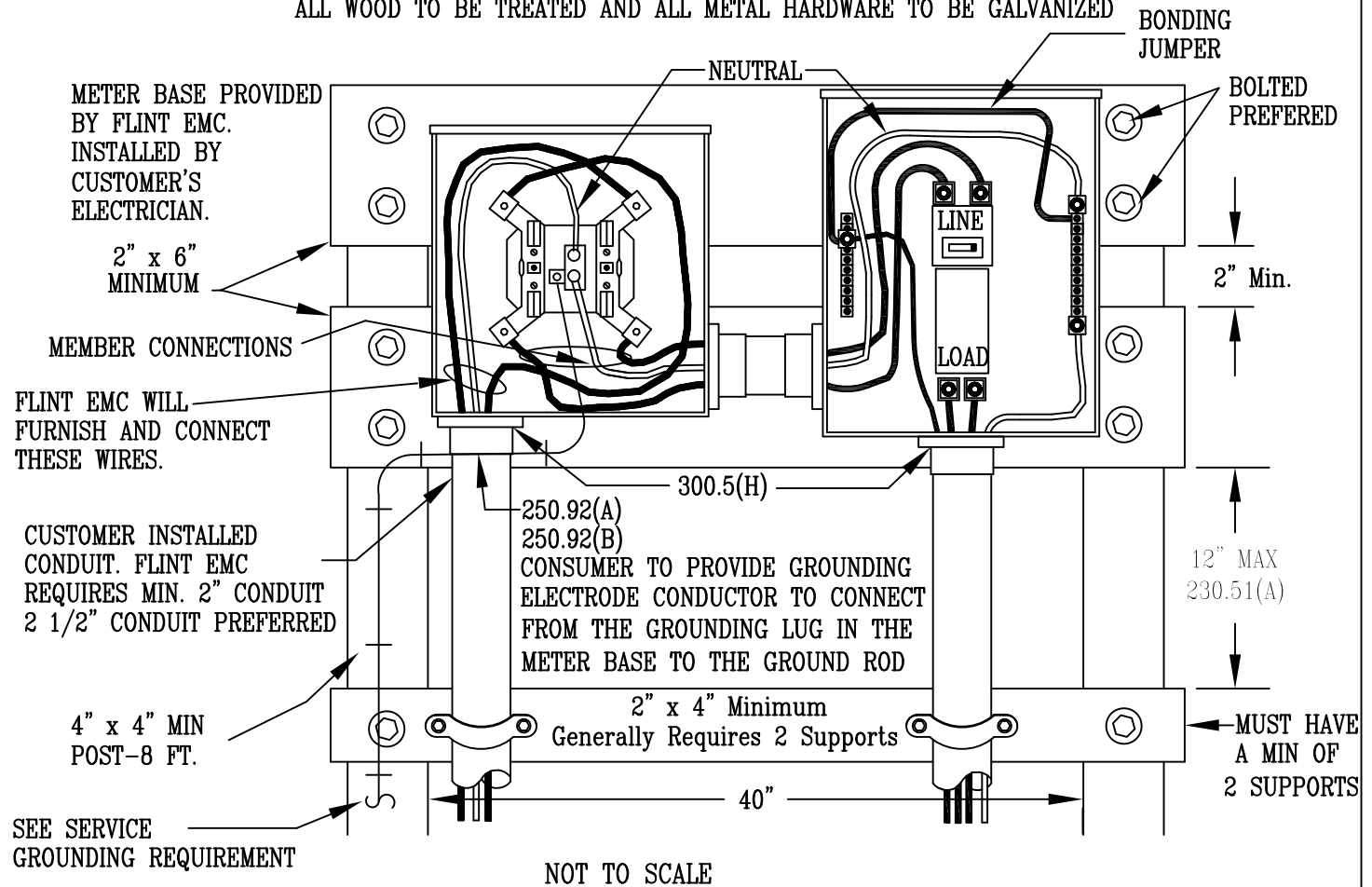


TABLE 310.15(B)(7)		
CONDUCTOR TYPES: USE		
CONDUCTOR (AWG OR kcmil)		
COPPER	ALUMINUM OR COPPER-CLAD	ALUMINUM SERVICE OR FEEDER RATING
4	2	100
1	2/0	150
2/0	4/0	200
400	600	400

MANUFACTURED HOME TYPICAL UNDERGROUND INSTALLATION


ALL WOOD TO BE TREATED AND ALL METAL HARDWARE TO BE GALVANIZED



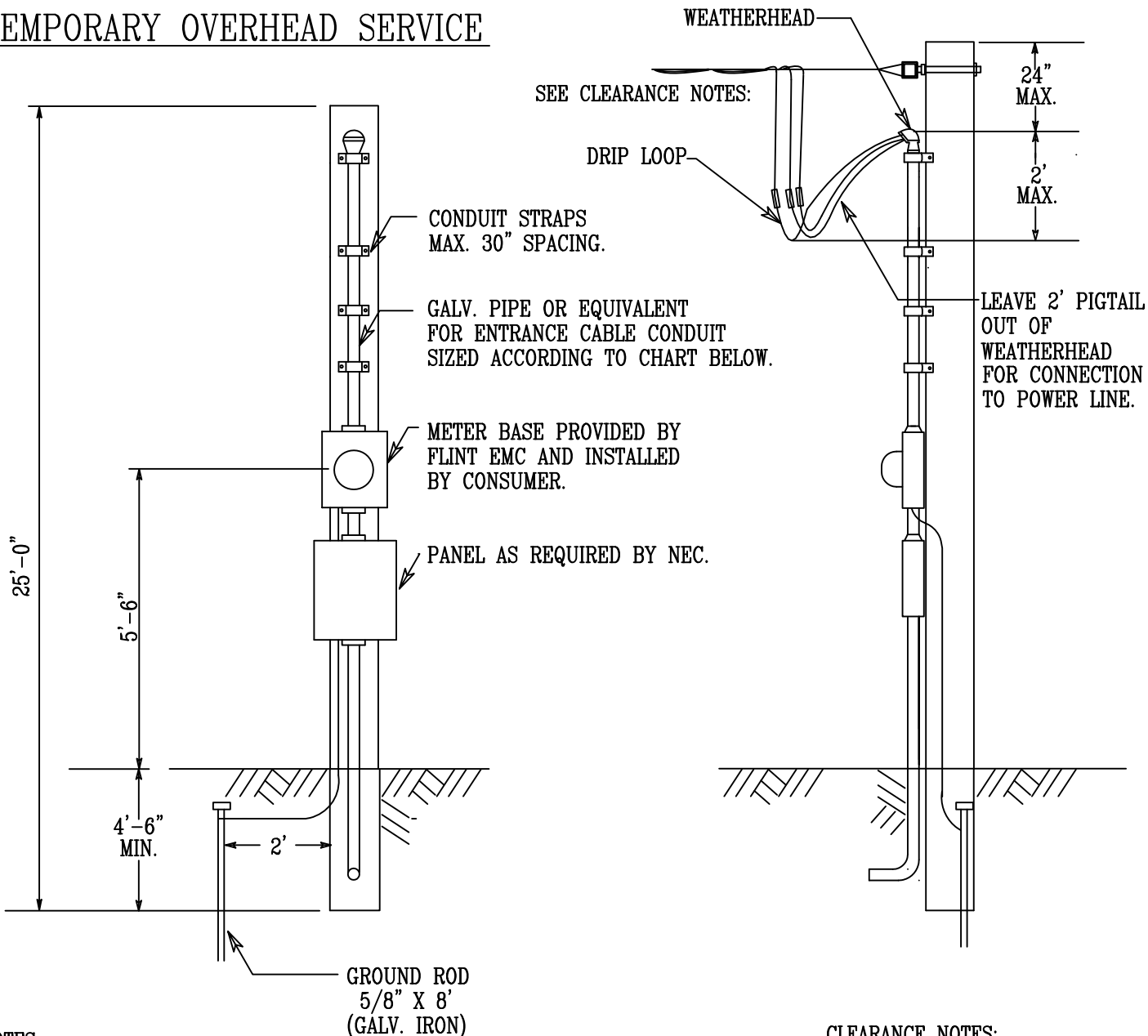
NOTES:

REFER TO THE NFPA NEC 2011 FOR COMPLETE DEFINITIONS
DEFINITIONS ARE ABBREVIATED FOR CLARITY AND SOMETIMES WITH ONLY PREFERRED ALTERNATIVES LISTED

- 230.51(A) SERVICE ENTRANCE CABLES OR RACEWAY MUST BE SUPPORTED ALONG ITS LENGTH
MUST BE SUPPORTED WITHIN 12" OF THE METER BASE AND EQUIPMENT
MUST BE SUPPORTED AT INTERVALS NOT LESS THAN 30" ALONG ITS LENGTH
- 250.92(A) GROUND WIRE MUST BOND TO EQUIPMENT CASINGS
- 250.92(B) GROUND WIRE MUST BE BONDED TO THE GROUNDED SERVICE CONDUCTOR (NEUTRAL)
- 300.5(A) DIRECT BURIED SERVICE ENTRANCE CABLES MUST BE BURIED A MINIMUM OF 24" BELOW FINAL GRADE
SERVICE ENTRANCE CABLES IN CONDUIT MAY BE BURIED A MINIMUM OF 18" BELOW FINAL GRADE
SEE NEC TABLE 300.5 FOR SPECIFICS
- 300.5(H) CONDUIT MUST BE ATTACHED TO ENCLOSURE WITH SUITABLE BUSHING OR FITTING SECURED WITH A LOCKNUT
- 550.32(B) SERVICE EQUIPMENT (DISCONNECT) MAY BE INSTALLED ON THE DWELLING IF....
- 1-MANUFACTURER PROVIDES WRITTEN SERVICE ENTRANCE INSTRUCTIONS, AND
- 2-INSTALLATION COMPLIES WITH NEC ARTICLE 230, AND
- 3-GROUNDING TO THE SERVICE ENTRANCE EQUIPMENT CAN BE DONE OUTSIDE, AND
- 4-BONDING AND GROUNDING COMPLIES WITH THE NEC ARTICLE 250, AND
- 5-MANUFACTURER PROVIDES WRITTEN INSTRUCTIONS FOR GROUNDING, AND
- 6-MANUFACTURER SPECIFIES THE MINIMUM GROUNDING ELECTRODE CONDUCTOR SIZE, AND
- 7-A RED WARNING LABEL IS MOUNTED ON OR NEXT TO THE SERVICE ENTRANCE EQUIPMENT

DATE: 3/7/97	FILE: UGMBLHOME.DWG		FLINT ENERGIES 900 HWY 96 WARNER ROBINS, GA 31088	DWG # UGHM
REV: 2/2012	DWN BY: CLB		SHEET 2 OF 2	

TEMPORARY OVERHEAD SERVICE



NOTES:

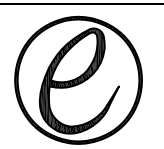
1. 25' CLASS 6 POLE, PRESSURE TREATED CAN BE PURCHASED FROM FLINT EMC WAREHOUSES IN REYNOLDS, UPATOI, AND WARNER ROBINS.
2. INSTALLATION MUST MEET GROUNDING REQUIREMENTS OF 2011 NATIONAL ELECTRIC CODE (NEC)
3. TEMPORARY SERVICE POLE CANNOT BE USED TO TO SERVE MANUFACTURED HOMES.

CLEARANCE NOTES:

- 10'- LOWEST POINT AT SERVICE ENTRANCE
- 12'- RESIDENTIAL YARDS WHERE NO TRUCK TRAFFIC IS EXPECTED.
- 16'- RESIDENTIAL DRIVEWAYS.
- 18'- OVER AGRICULTURAL AREAS, ROADS, PARKING LOTS, COMMERCIAL DRIVEWAYS.

DATE:
2/2012

FILE:
TEMPPOLE.DWG



FLINT ENERGIES
900 HWY 96
WARNER ROBINS, GA 31088

DWG # TEMP-OH

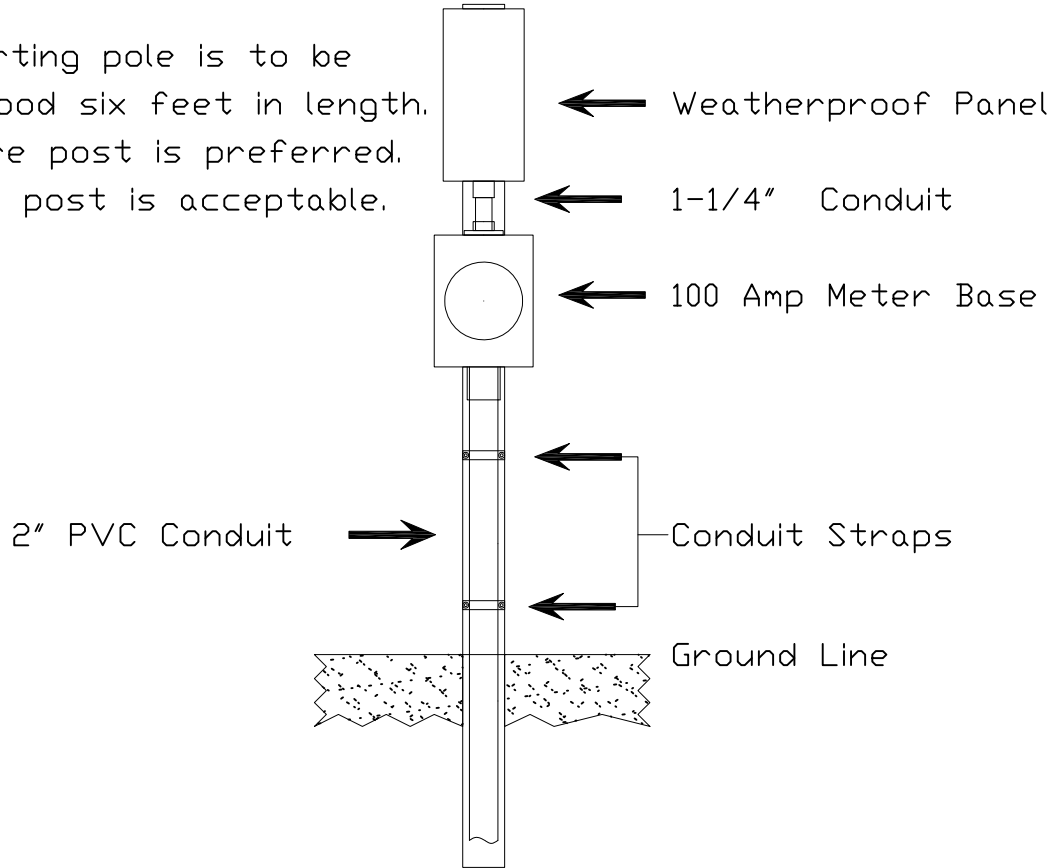
REV:

DWN BY:
JR

SHEET OF

TEMPORARY UNDERGROUND SERVICE POLE

The supporting pole is to be treated wood six feet in length. A 4" square post is preferred. A 6" round post is acceptable.



NOTES:

1. INSTALLATION MUST MEET GROUNDING REQUIREMENTS OF 2011 NATIONAL ELECTRIC CODE (NEC)
2. TEMPORARY SERVICE POLE CANNOT BE USED TO SERVE MANUFACTURED HOMES.

DATE:
2/2012

FILE:
TEMPPOLE.DWG



FLINT ENERGIES
900 HWY 96
WARNER ROBINS, GA 31088

DWG # TEMP-UG

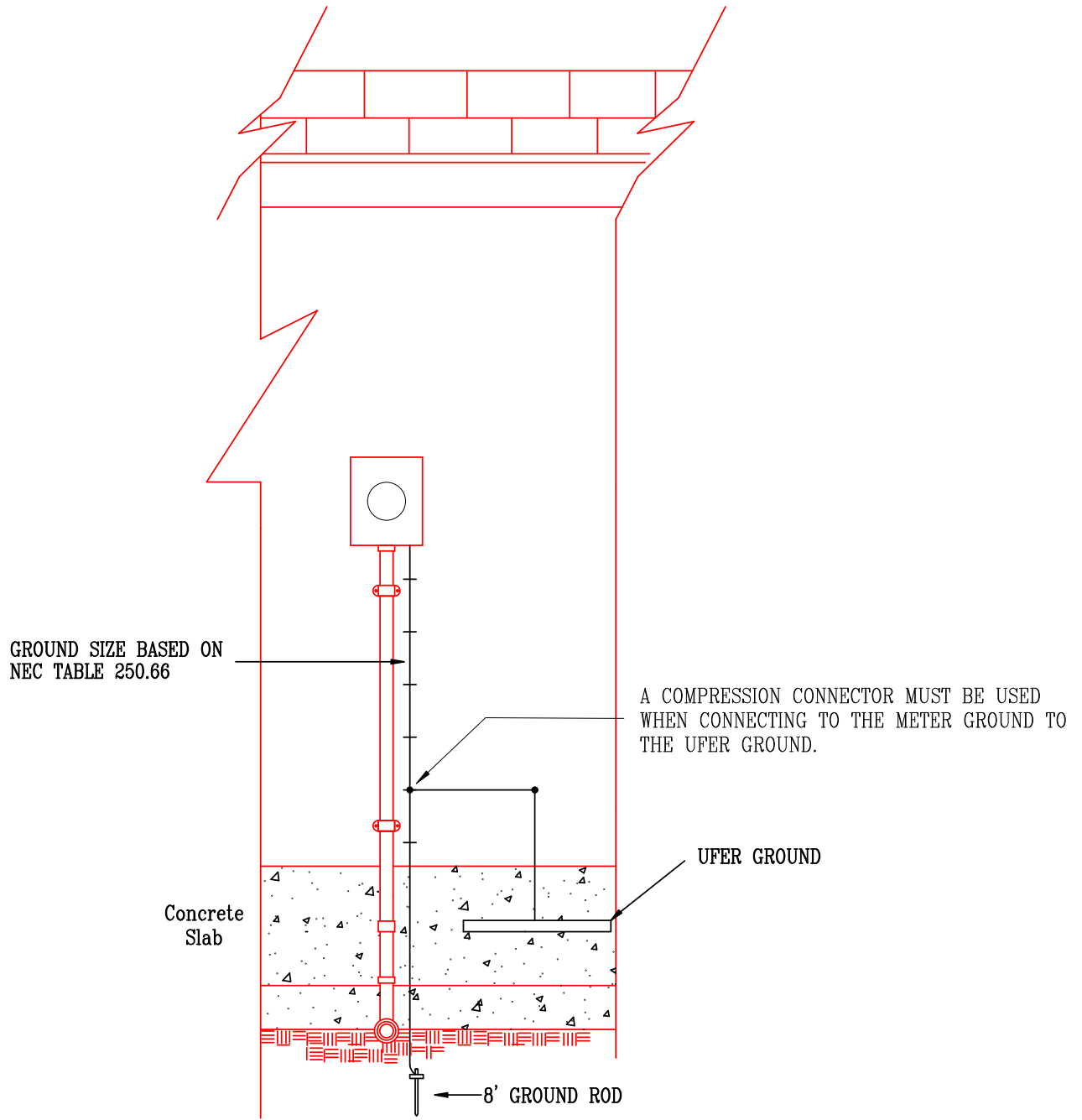
REV:

DWN BY:
JR

SHEET OF

UFER GROUND EXAMPLE

(ALL REFERENCES FROM NEC 2011- EXAMPLE 230.XX)



NOT TO SCALE

DATE:
4/9/02

FILE:
UNDERGROUND SVC.DWG



FLINT ENERGIES
900 HWY 96
WARNER ROBINS, GA 31088

DWG # UFER

REV:
2/2012

DWN BY:
CLB

SHEET 1 OF 1