



ELECTRIC DEPARTMENT CONSTRUCTION STANDARDS
FOR RESIDENTIAL SERVICE INSTALLATION

***LOCATION OF METER MUST BE APPROVED PRIOR TO
INSTALLATION CALL (501) 975-8888 AND ASK FOR AN ENGINEER***

Updated Contact Information 12-1-2023

1400 WEST MARYLAND AVE
NORTH LITTLE ROCK, ARKANSAS 72120

Revised July 1, 2020

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NLR ELECTRIC ENGINEERING DEPARTMENT

Phone Number

Email

(501) 975-8888, ask for an engineer nlred-engineering@nlr.ar.gov Updated Contact Information 12-1-2023

For Ditch Inspection or access to NLRED pad mounted transformers, underground secondary pedestals, etc. Call the number below for appointment (24 hour notice required).

(501) 975-8888

Updated Contact Information 12-1-2023

For Permits or Electric Inspections contact:

North Little Rock Electrical Inspector's Office (501) 975-8835

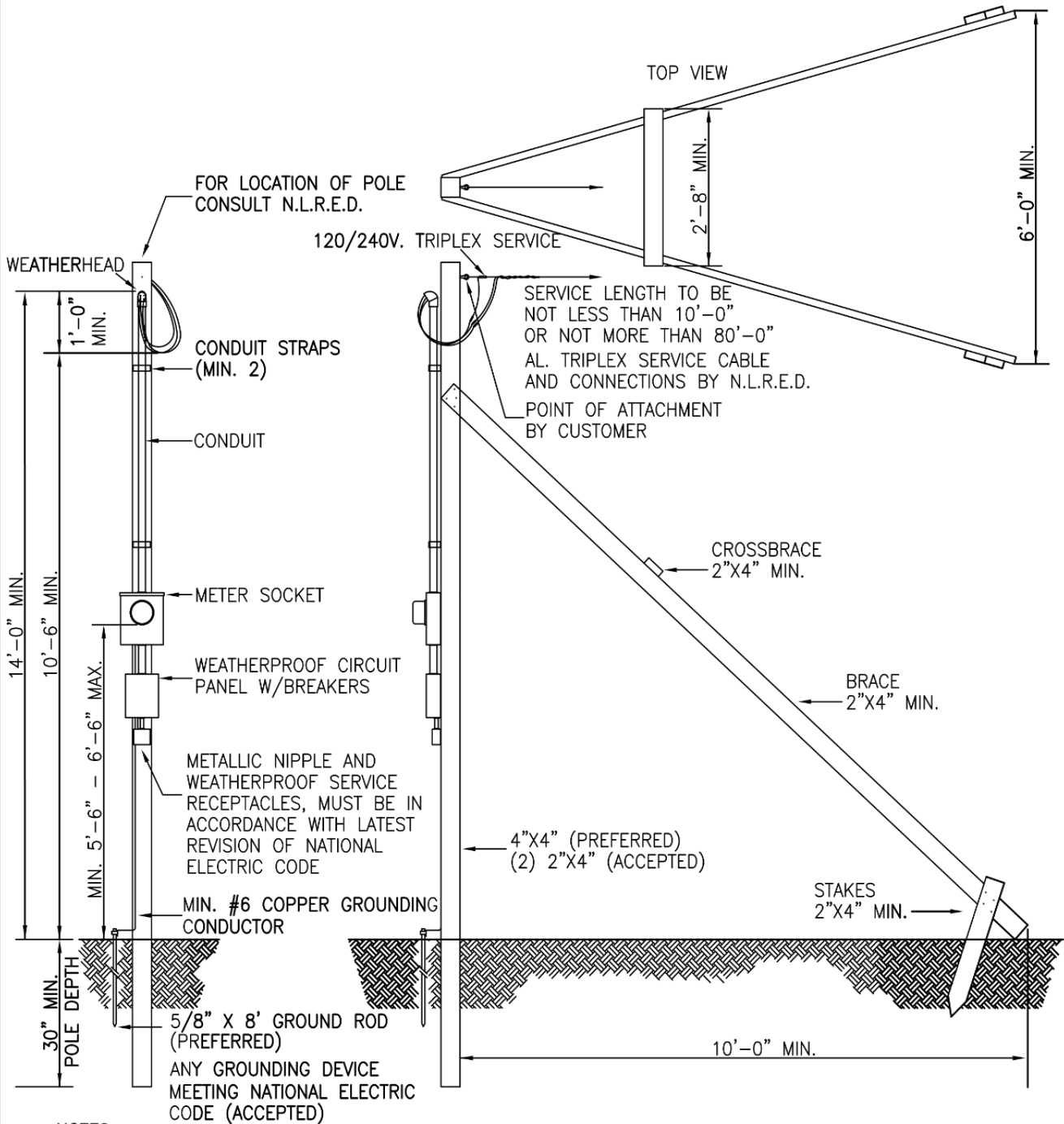
Sherwood Code Enforcement:

Sherwood Electrical Inspector's Office (501) 835-4753

INSPECTION AND INSTALLATION ORDER

Two inspections are required before service wire is installed:

1. An inspection of the installed meter can, ditch, conduit, warning tape, and pull string must be completed By NLRED Engineering personnel. This is an entirely separate inspection from the one conducted by the City Electrical Inspector. It is required by the Electric Department to insure that the installation of all service components is in compliance with these standards. Any time after this inspection is completed, the service may be installed
2. The service may only be connected after the final electrical inspection for the structure has been performed by the City Electrical Inspector, and an installation order has been completed and in the hands of the NLRED crew.



NOTES:

1. ALL NON-CURRENT CARRYING METALLIC PARTS TO BE EFFECTIVELY GROUNDING
2. N.L.R.E.D. TO SUPPLY OVERHEAD SERVICE, CONNECTORS, SERVICE DEADEND AND METER ONLY
3. ALL OTHER MATERIAL TO BE SUPPLIED BY AND INSTALLED BY CUSTOMER
4. ALL WORK TO BE IN ACCORDANCE WITH LATEST VERSION OF NATIONAL ELECTRIC CODE OR CITY OF N.L.R. ELECTRIC CODE OR CITY OF SHERWOOD ELECTRIC CODE. DEPENDING UPON LOCATION
5. ALL WORK TO BE INSPECTED.
6. ADDITIONAL POLE HEIGHT MAY BE REQUIRED IF SERVICE CROSSES STREET, ALLEY OR DRIVEWAY TO MAINTAIN PROPER CLEARANCE PER N.E.C. CLEARANCES.

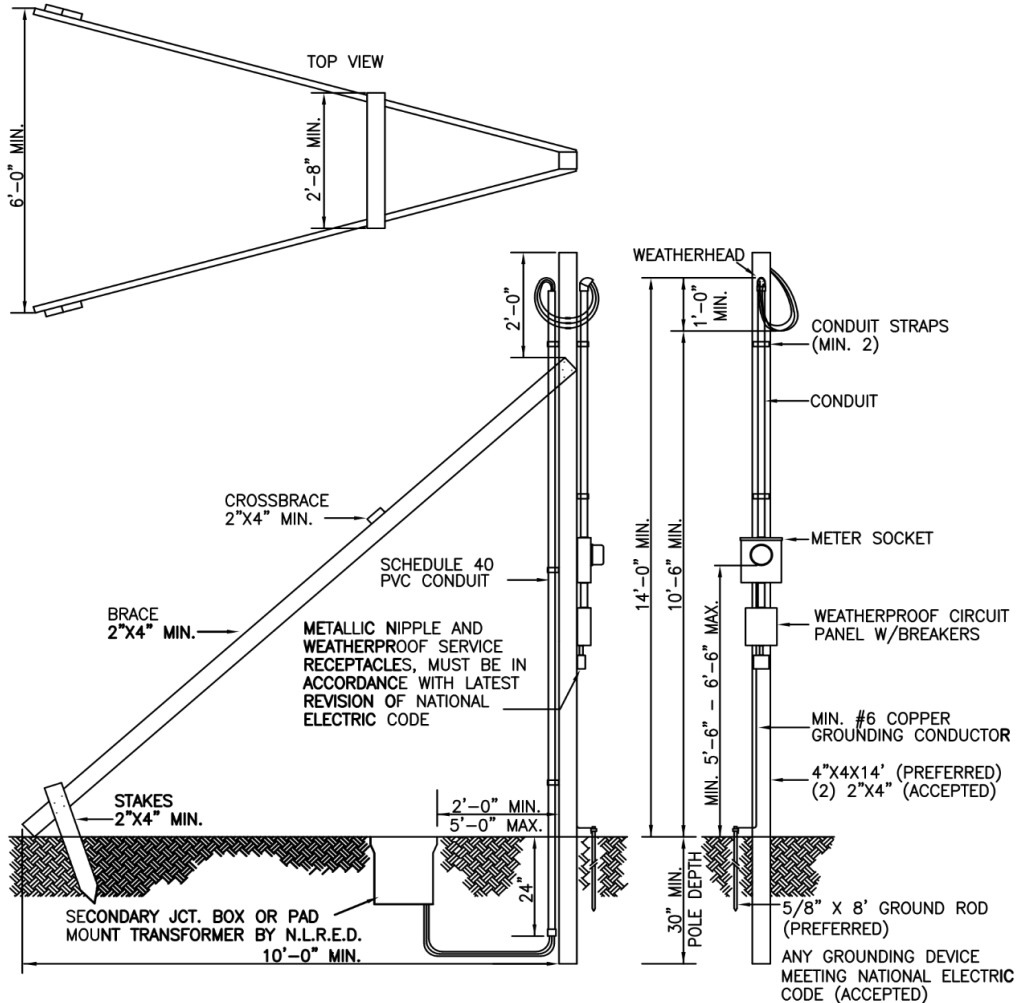
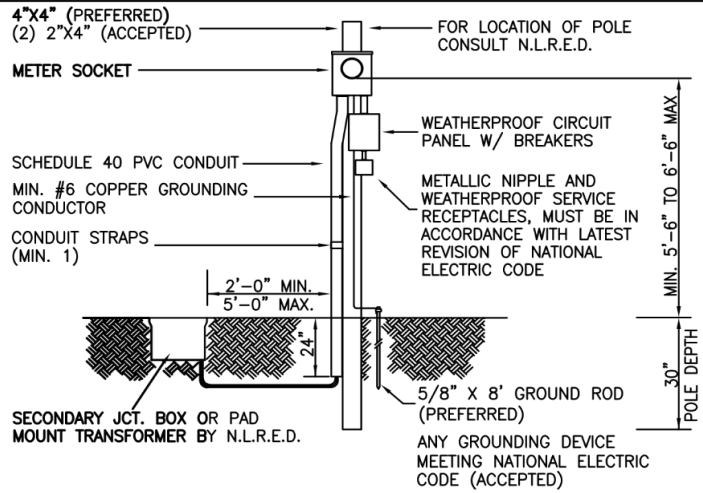
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NORTH LITTLE ROCK ELECTRIC CONSTRUCTION STANDARDS
TYPICAL
TEMPORARY O.H. SERVICE METER INSTALLATION
120/240 VOLTS SINGLE PHASE

DATE: 6-26-20	REVISION
SHT No.: 1	3
CONSTRUCTION STANDARD No.	S-1

CADD FILE: NLR8001



NOTES:

1. ALL NON-CURRENT CARRYING METALLIC PARTS TO BE EFFECTIVELY GROUNDED
2. ALL MATERIAL TO BE FURNISHED AND INSTALLED BY CUSTOMER UNLESS OTHERWISE NOTED
3. ALL WORK TO BE IN ACCORDANCE WITH LATEST VERSION OF NATIONAL ELECTRIC CODE OR CITY OF N.L.R. ELECTRIC CODE OR CITY OF SHERWOOD ELECTRIC CODE. DEPENDING UPON LOCATION
4. ALL WORK TO BE INSPECTED.

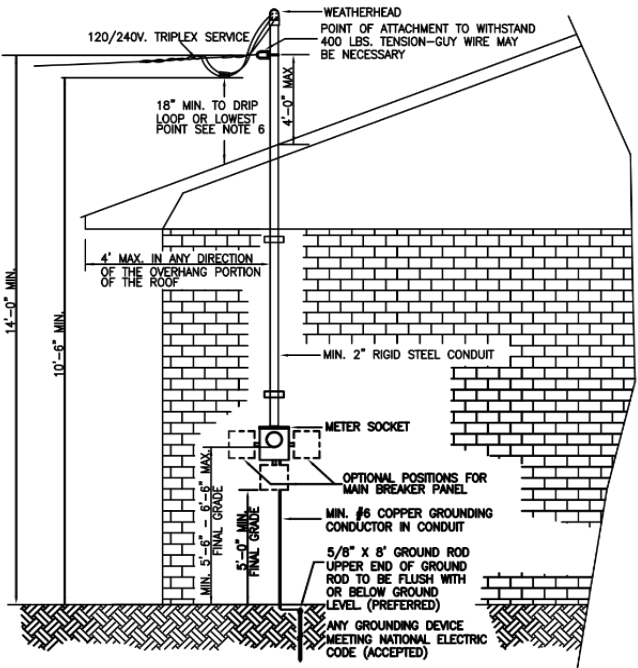
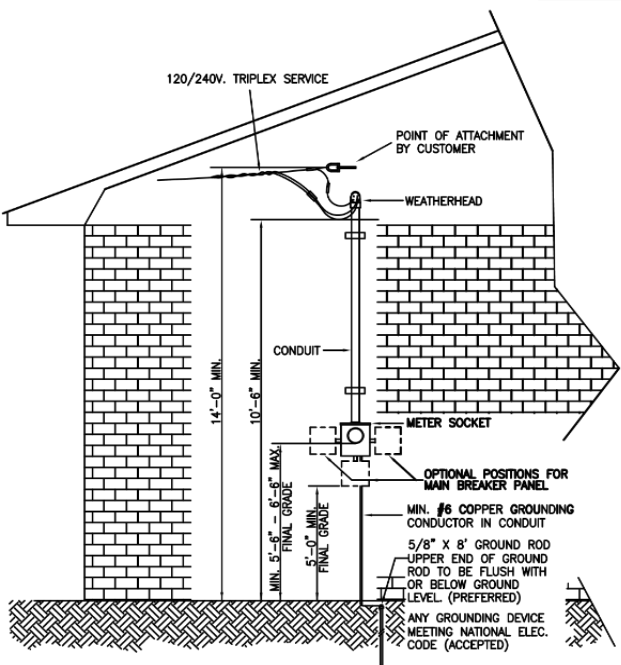
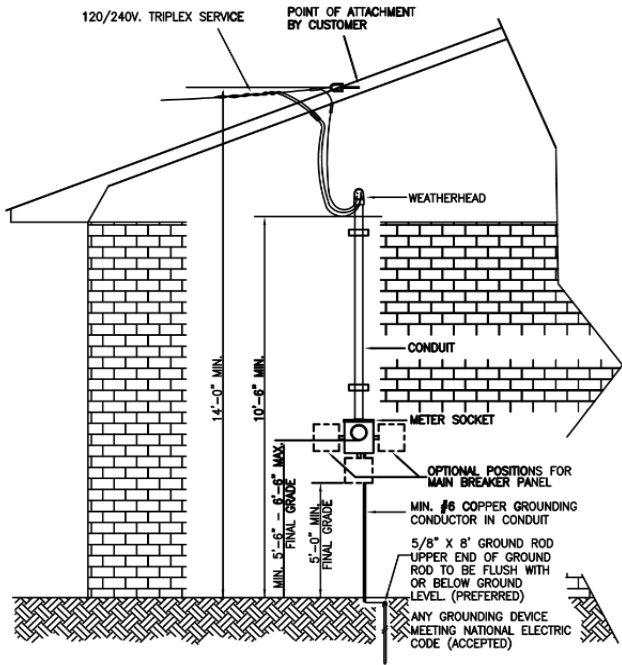
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NORTH LITTLE ROCK ELECTRIC CONSTRUCTION STANDARDS
TYPICAL
TEMPORARY SERVICE FROM
AN UNDERGROUND SOURCE

DATE: 6-26-20	REVISION
SHT No.: 1	3
CONSTRUCTION STANDARD No.	S-2

CADD FILE: NLR5002



- NOTES:
1. ALL NON-CURRENT CARRYING METALLIC PARTS TO BE EFFECTIVELY GROUND
 2. N.L.R.E.D. TO SUPPLY OVERHEAD SERVICE, CONNECTORS, SERVICE DEADEND AND METER ONLY
 3. ALL OTHER MATERIAL TO BE SUPPLIED BY AND INSTALLED BY CUSTOMER
 4. ALL WORK TO BE IN ACCORDANCE WITH LATEST VERSION OF NATIONAL ELECTRIC CODE OR CITY OF N.L.R. ELECTRIC CODE OR CITY OF SHERWOOD ELECTRIC CODE. DEPENDING UPON LOCATION
 5. ALL WORK TO BE INSPECTED BY CITY OF N.L.R. OR CITY OF SHERWOOD ELECTRICAL INSPECTOR
 6. POINT OF ATTACHEMENT TO WITHSTAND 400 LBS. TENSION

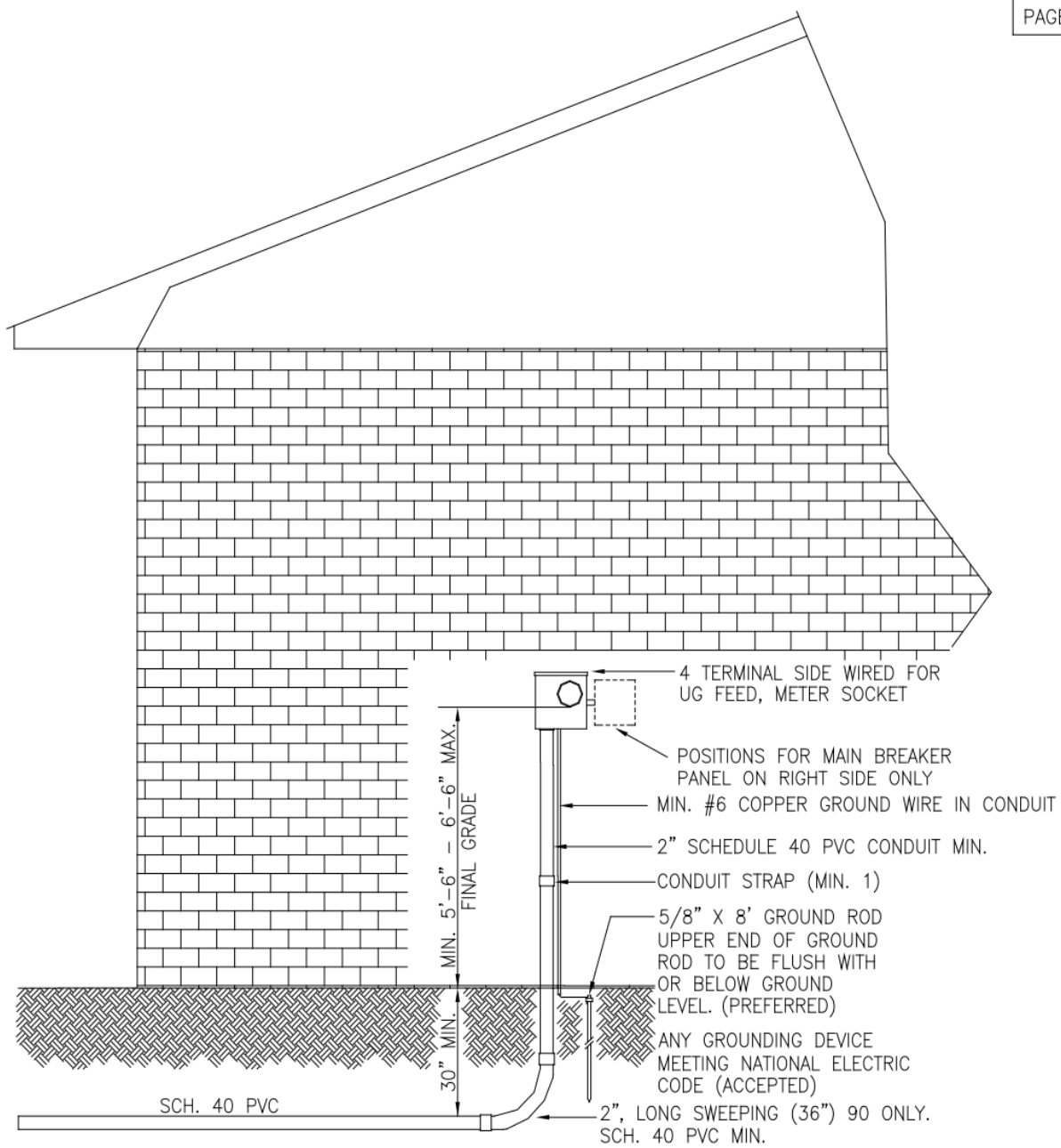
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NORTH LITTLE ROCK ELECTRIC CONSTRUCTION STANDARDS
 TYPICAL
 OVERHEAD SERVICE METER INSTALLATION
 120/240 VOLTS SINGLE PHASE

DATE: 6-26-20	REVISION
SHT No.: 1	3
CONSTRUCTION STANDARD No.	S-3

CADD FILE: NLR5003



NOTES:

1. SERVICE TO BE MOUNTED ON SIDE OF HOUSE.
2. ALL NON-CURRENT CARRYING METALLIC PARTS TO BE EFFECTIVELY GROUNDDED.
3. CUSTOMER TO PROVIDE AND INSTALL ALL CONDUIT AND PULL STRING TO N.L.R.E.D. PAD MOUNT TRANSFORMER, SECONDARY JCT. BOX, OR 7 INCHES TO POLE
5. N.L.R.E.D. TO INSTALL UNDERGROUND SERVICE.
6. SERVICE TRENCH TO BE INSPECTED BY N.L.R.E.D. BEFORE BACK FILLING.
7. CONDUIT SIZE MIN. 2" ON 200 AMP, 3" ON 320 AMP, AND 4" ON 400 AMP.
8. ALL WORK TO BE IN ACCORDANCE WITH LATEST VERSION OF NATIONAL ELECTRIC CODE OR CITY OF N.L.R. ELECTRIC CODE OR CITY OF SHERWOOD ELECTRIC CODE. DEPENDING UPON LOCATION

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NORTH LITTLE ROCK ELECTRIC CONSTRUCTION STANDARDS
 TYPICAL
 UNDERGROUND SERVICE METER INSTALLATION
 120/240 VOLTS SINGLE PHASE

DATE: 3-12-18	REVISION
SHT No.: 1	2
CONSTRUCTION STANDARD No.	S-4

CADD FILE: NLR5004

UNDERGROUND RESIDENTIAL SERVICE SPECIFICATIONS

NLRED WILL INSTALL AND MAINTAIN THE UNDERGROUND SERVICE WIRE AS LONG AS THE ELECTRICAL CONTRACTOR FOLLOWS THESE SPECIFICATIONS FOR CONDUIT AND METER CAN INSTALLATION.

Contractor charge for underground service installation:

<u>SERVICE SIZE</u>	<u>CHARGE</u>
200 amp	\$ 200.00
320 amp	\$ 200.00
400 amp	\$ 200.00

These charges and requirements offset the cost difference between an overhead service, which the department provides at no charge to the contractor, and the cost of an underground service at the same amp rating.

ALL SPECIFICATIONS UNDER THIS HEADING MUST BE FOLLOWED TO THE LETTER!!!

1. CONTACT

Contact the Engineering Department at North Little Rock Electric Department (NLRED), before any work is started on underground service.

2. ELECTRICIAN

A licensed electrician shall do all work.

3. METER CAN

THE METER CAN IS TO BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

The electrical contractor must use a meter can that has been approved by NLRED. ALL OTHERS MAY BE SUBJECT TO THE SCRUTINY OF NLRED AND MAY BE REFUSED! If a meter can other than those listed is considered for use it is strongly recommended that it be approved by a member of NLRED Engineering Department before installation.

WITHOUT EXCEPTION – ALL METER CANS USED IN THE NORTH LITTLE ROCK SERVICE AREA MUST BE RINGLESS!

<u>APPROVED METER CANS</u>		
MANUFACTURE	AMP RATING	CATALOG NO.

200A		
Milbank		U1980-0 U5898-0-200-KK-BLG
Siemens		MM0202L1200EFC 200 MM0G
Square D		RC816D200CH
Eaton		UT-RS223A-CH

320A		
Midwest		RS45508C
Milbank		U1797-0-K3L-K2L U5894-X-2/200-MLK
Eaton		UTH43369UCH
Siemens		44704-02 47404-82
Cutler Hammer		UTH43369UCH

400A		
Midwest		RS15500C RS45508C
Square D		RU3040D400CL

Note: Lugs for LINE SIDE of 320 and 400 amp meter cans are to be supplied by electrical contractor.

<u>AMP RATING</u>	<u>LINE SIDE LUG SIZE</u>	<u>NEUTRAL</u>
320	2 ea. - 350	1 ea. - 4/0
400	2 ea. - 350	1 ea. - 4/0

TRENCH

The trench is to be no less than thirty (30) inches in depth with a minimum width of four (4) inches.

ROCKY TERRAIN

If terrain is rocky, the minimum depth may be changed to sixteen (16) inches with four (4) inches of red dyed concrete cover.

ANY TRENCH USING CONCRETE AS A BACK FILL, MUST BE INSPECTED AND APPROVED BY NLRED, BEFORE POURING CONCRETE.

4. CONDUIT

CONDUIT IS TO BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

<u>MAIN SIZE</u>	<u>CONDUIT SIZE</u>	<u>SCHEDULE</u>
200 amp	2 inch	40
320 amp	3 inch	40
400 amp	4 inch	40

NOTE: There are to be no more than 2 (two) long sweeping 90 degree elbows in any one service. No service is to be longer than one hundred (100) feet in length. Service is to run in a straight line from customer's structure to NLRED facilities.

A nylon string shall be installed in the conduit by the electrical contractor for pulling service wire.

Conduit shall be clear of any internal obstructions and if NLRED is unable to pull service wire due to obstructions the **ELECTRICAL CONTRACTOR SHALL BE HELD RESPONSIBLE.**

If the conduit runs down hill from NLRED facilities to the structure, there shall be three (3) one-quarter (1/4) inch holes drilled in the conduit, eighteen (18) inches above ground level at structure.

5. BACK FILL

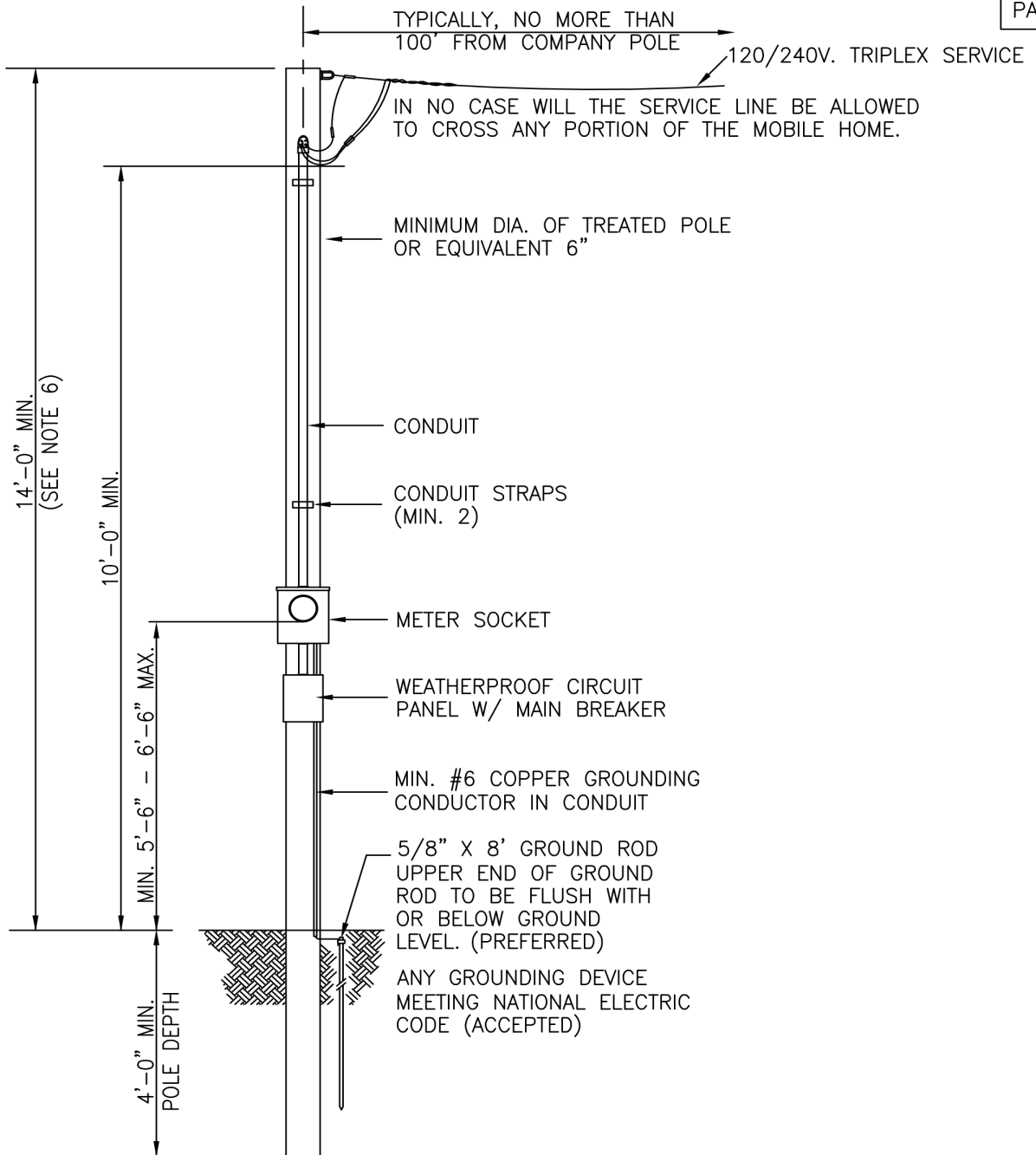
Back fill must be free of large rocks or other material that could damage the conduit.

ALL TRENCHES MUST BE INSPECTED BY NLRED BEFORE BEING BACK FILLED. NLRED WILL REQUIRE THAT ANY TRENCH BACK FILLED BEFORE INSPECTION TO BE UNCOVERED.

Important: The electrical contractor is required to inform NLRED a minimum of one (1) full working day that the trench is ready for inspection.

6. **WARNING TAPE**

Warning tape shall be installed by electrical contractor, six (6) inches below finished grade. Warning tape will be supplied by NLRED at time of trench inspection.



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6. ADDITIONAL POLE HEIGHT MAY BE REQUIRED IF SERVICE CROSSES STREET, ALLEY OR DRIVEWAY TO MAINTAIN PROPER CLEARANCE PER N.E.C. CLEARANCES.

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NORTH LITTLE ROCK ELECTRIC CONSTRUCTION STANDARDS
 TYPICAL
 TYPICAL INSTALLATION -
 CENTRAL SERVICE POLE

DATE: 07-07-20	REVISION 2
SHT No.: 1	
CONSTRUCTION STANDARD No.	S-8

CADD FILE: NLR8507

