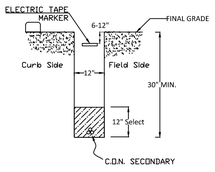
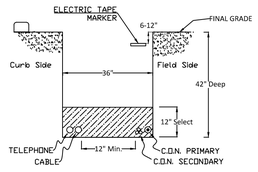
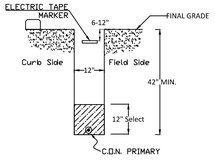
SECONDARY AND SERVICE TRENCH 30" MINIMUM COVER



JOINT TRENCHING 12" SEPARATION WITHOUT GAS



PRIMARY TRENCH 42" MINIMUM COVER

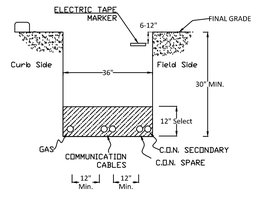


NOTES:

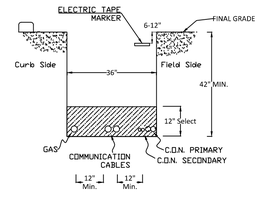
1) Hand dig in areas with insufficient room for equipment or a concentration of obstructions.
2) Normal soil exists where all excavating can be done by a plow, trencher, or backhoe without special considerations.
3) Main line trench shall normally be dug behind the sidewalk.
4) Adverse soil exists where all excavating can be done by a plow, trencher, backhoe, but requires additional time due to hard ground, tree roots, rough terrain, etc.
5) Trench to be backfilled with select material or sand. Fill material shall be verified and approved by City.
6) Crossing separation: minimum 12 inches vertical.

NEWARK DELAWARE	CITY of NEWARK NEW CASTLE COUNTY, DE			
	UNDERGROUND DISTRIBUTION TRENCHING			
CHECKED BY: BP	SIZE: A	DR BY: AH	FILENAME: \\sta\STD100E.DWG	REV: 1
DWG NO. STD100E.DWG	SCALE: NTS	DATE: 6/23/22	SHEET: 1 of 1	

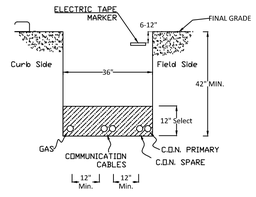
SECONDARY AND SERVICE JOINT TRENCHING 12" SEPARATION WITH GAS



JOINT TRENCHING 12" SEPARATION WITH GAS



PRIMARY JOINT TRENCHING 12" SEPARATION WITH GAS



NOTES:

1) Hand dig in areas with insufficient room for equipment or a concentration of obstructions.
2) Normal soil exists where all excavating can be done by a plow, trencher, or backhoe without special considerations.
3) Main line trench shall normally be dug behind the sidewalk.
4) Adverse soil exists where all excavating can be done by a plow, trencher, backhoe, but requires additional time due to hard ground, tree roots, rough terrain, etc.
5) Trench to be backfilled with select material or sand. Fill material shall be verified and approved by City.
6) Crossing separation: minimum 12 inches vertical.

NEWARK DELAWARE	CITY of NEWARK NEW CASTLE COUNTY, DE			
	UNDERGROUND DISTRIBUTION TRENCHING W/ GAS			
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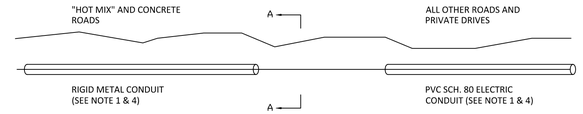
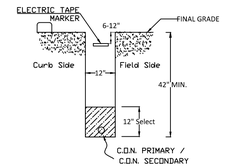
DWG NO. STD100E2.DWG	SCALE: NTS	DATE: 6/23/22	SHEET: 1 of 1	

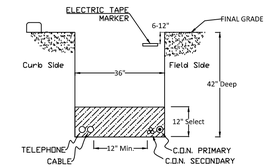
ROAD CROSSINGS



PRIMARY/SECONDARY TRENCH



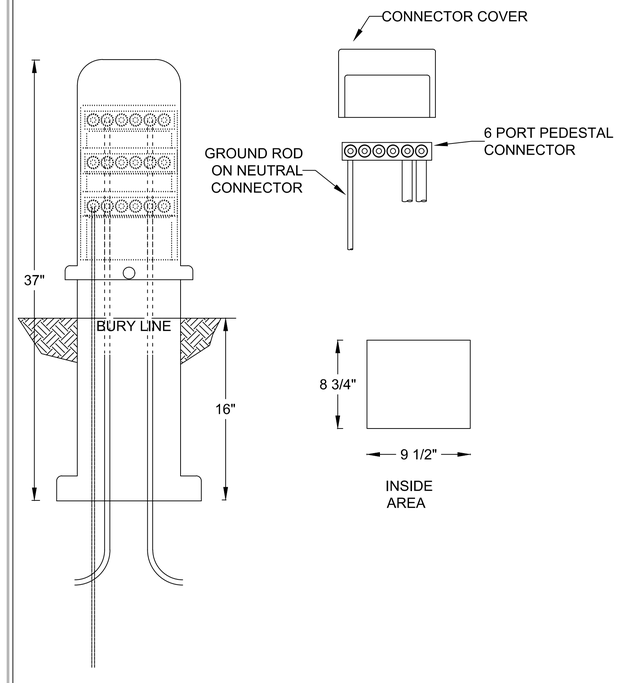
JOINT TRENCHING 12" SEPARATION WITHOUT GAS



NOTES:

1) When required by State or City, use rigid metal conduit. Use rigid non-metallic conduit for all other cases.
2) Preferred depth of covering is 42" for crossings. In case of extreme hardship such as water, sewer, etc., at the same depth, a minimum cover of 36" is acceptable.
3) All crossing, primary and/or secondary conduits are to be buried at same depth.
4) When open cutting roadways, a spare primary and/or secondary conduits must be installed and ends shall be sealed with an approved cap or plug.

NEWARK DELAWARE	CITY of NEWARK NEW CASTLE COUNTY, DE			
	ROAD CROSSING TRENCHING			
CHECKED BY: BP	SIZE: A	DR BY: AH	FILENAME: \\sta\STD100E3.DWG	REV: 1
DWG NO. STD100E3.DWG	SCALE: NTS	DATE: 6/23/22	SHEET: 1 of 1	



NEWARK DELAWARE	CITY of NEWARK NEW CASTLE COUNTY, DE			
	URD SECONDARY PED			
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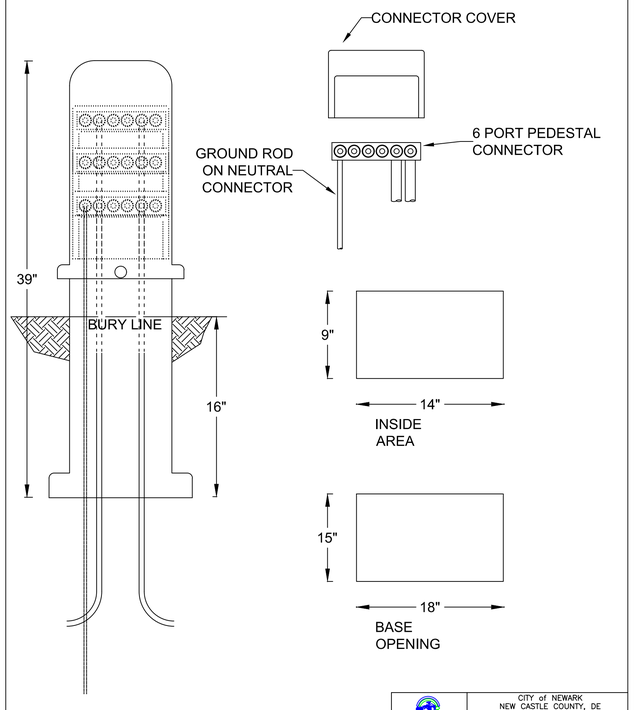
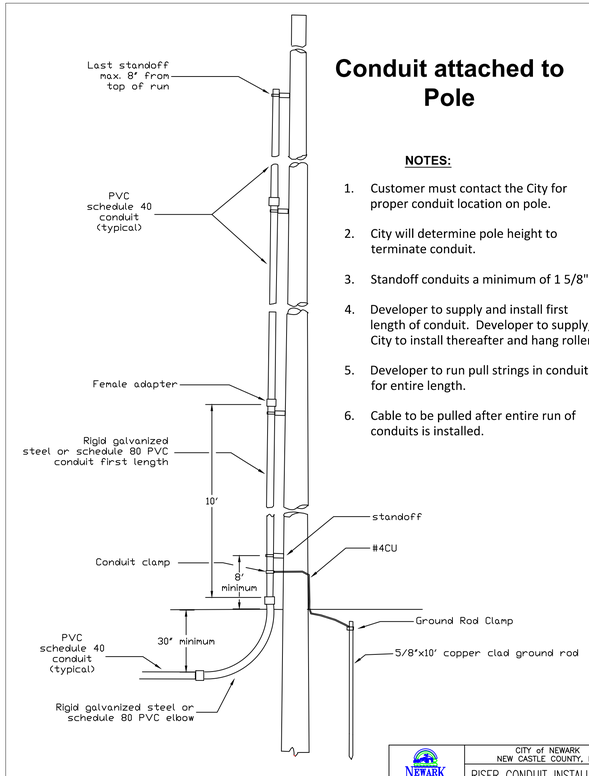
DWG NO. STD197E.DWG	SCALE: NTS	DATE: 6/24/22	SHEET: 1 of 1	



NEWARK DELAWARE	CITY of NEWARK NEW CASTLE COUNTY, DE			
	URD SECONDARY PED LARGER PEDESTAL			
CHECKED BY: BP	SIZE: A	DR BY: AH	FILENAME: \\sta\STD197E2.DWG	REV: 1
DWG NO. STD197E2.DWG	SCALE: NTS	DATE: 6/24/22	SHEET: 1 of 1	

Conduit attached to Pole



NOTES:

1. Customer must contact the City for proper conduit location on pole.
2. City will determine pole height to terminate conduit.
3. Standoff conduits a minimum of 1 5/8".
4. Developer to supply and install first length of conduit. Developer to supply, City to install thereafter and hang rollers.
5. Developer to run pull strings in conduit for entire length.
6. Cable to be pulled after entire run of conduits is installed.

NEWARK DELAWARE	CITY of NEWARK NEW CASTLE COUNTY, DE			
	RISER CONDUIT INSTALLATION			
CHECKED BY: BP	SIZE: A	DR BY: AH	FILENAME: \\sta\STD199E.dwg	REV: 1
DWG NO. STD199E	SCALE: NTS	DATE: 6/29/22	SHEET: 1 of 1	

CITY OF NEWARK APPROVED SECONDARY CONNECTORS

Approved Padmount Transformer Secondary Lugs for 3-phase transformers

NO EXCEPTIONS
Six conductors per phase maximum

Conductor AL/CU	Burndy Part #
1/0 Stranded	YA25A7
2/0 Stranded	YA26A3
4/0 Stranded	YA28A5
250 kcmil	YA29A3
350 kcmil	YA31A3
500 kcmil	YA34A3
600 kcmil	YA36A3
750 kcmil	YA39A5
1000 kcmil	YA44A3

- Single Phase Padmounts up to 75kVA – six 350 kcmil conductors maximum per spade
- 100kVA – six 500 kcmil conductors max, contingent on space for conduits – contact Electric Department for prior approval – connectors supplied by the City of Newark

Standard Primary Pull Box
36"X48"X36" Deep High Density Polyethylene
Pencell PEM3648X with 2 PEM3648-6 Spacers
Identification- ELECTRIC
Note: Contact City of Newark Electric Department
if pullbox will be subject to vehicular traffic

Approved Aerial Commercial Service Entrance Connector
(For use on customer owned service conductors connected to aerial City owned conductors – usually triplex or quadriplex)

Burndy (FCI) - Unitap or NSI Industries – Polaris System

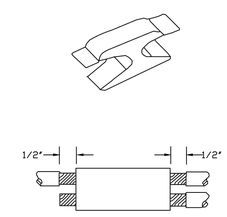
Note: Contact City of Newark Electric Department to review the number of conductors City will supply.

Approved Secondary Lugs for conductors directly connected to Aerial Transformer Bushings

Up to 500 kcmils	City supplies 6 position eyebolt connectors
600 kcmil	YA36A3
750 kcmil	YA39A5
1000 kcmil	YA44A3

NEWARK DELAWARE	CITY OF NEWARK NEW CASTEL COUNTY, DE			
	APPROVED SECONDARY CONNECTORS			
CHECKED BY: BP	SIZE A	DR BY: RV	FILENAME: \\std\STD201E.dwg	REV 1
DWG NO. STD201E	SCALE: NTS	DATE: 10/13/2005	SHEET: 1 of 1	

Fig. 12

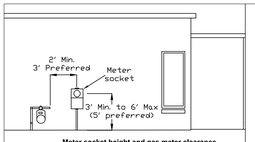


INSTRUCTIONS FOR INSTALLING COMPRESSION "H" TAP CONNECTORS

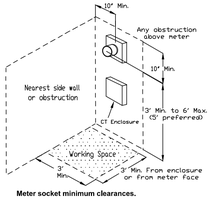
1. Use these connectors for non-tension splice or tap connections of aluminum to aluminum conductors or of aluminum to copper conductors, as shown above.
2. Be sure to use the correct size connectors and tooling as per manufacturers recommendations.
3. Install the connectors so that the aluminum or ACSR conductors are physically above the copper conductors.
4. Strip conductor as shown above, wire brush until metal is clean. Apply anti-oxidant compound and make connection **immediately**.

   CAUTION: Do not nick or cut conductors in stripping process!
5. Place stripped conductor in groove, allowing it to extend 1/2" beyond connector from end to end using full number of indents as per manufacturers recommendations.
6. Tape all connections.

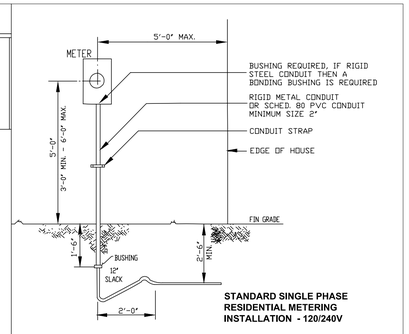
NEWARK DELAWARE	CITY of NEWARK NEW CASTLE COUNTY, DE			
	H TAP CONNECTIONS			
CHECKED BY: RV	SIZE: A	DR BY: AH	FILENAME: \\sta\STD205E.dwg	REV: 1
DWG NO. STD205E	SCALE: NTS	DATE: 8/19/08	SHEET: 1 of 1	



Meter socket height and gas meter clearance.



Meter socket minimum clearances.



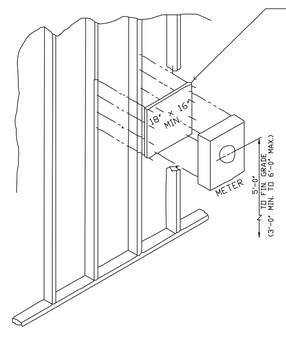
STANDARD SINGLE PHASE RESIDENTIAL METERING INSTALLATION - 120/240V

NOTES:

1. CONDUIT STRAP, BUSHING, & RIGID OR SCHED. 80 PVC CONDUIT SUPPLIED AND INSTALLED BY CONTRACTOR.
   IF SCHED. 80 PVC USED, PVC CONNECTORS AND BUSHINGS REQUIRED AT BOTH ENDS.
2. IN ALL CASES APPROVAL FOR METER LOCATION MUST BE OBTAINED FROM THE CITY OF NEWARK BEFORE INSTALLATION.
3. METER BOX SUPPLIED AND INSTALLED BY CONTRACTOR.
4. IF METER RISER CONDUIT IS INCASED IN CONCRETE OR BLACKTOP, A SLIP FITTING OR GROUND SLEEVE IS REQUIRED.

NEWARK DELAWARE	CITY of NEWARK NEW CASTLE COUNTY, DE				
	METER CLEARENCES				
DRAWN BY: AP	SIZE: A	SIR BY: AH	FILENAME: \\nfs\STD12E.dwg		REV: 1
DWG NO. STD12E	SCALE: NTS	DATE: 6/26/12		SHEET: 1 of 1	

Fig. 14



NOTES:

1. METER BOX SUPPLIED AND INSTALLED BY CONTRACTOR.
2. IN ALL CASES APPROVAL FOR METER LOCATION MUST BE OBTAINED FROM THE CITY BEFORE INSTALLATION.
3. SEE FIGURE 5 FOR STANDARD UNDERGROUND INSTALLATION.

NEWARK DELAWARE	CITY of NEWARK NEW CASTLE COUNTY, DE				
	STANDARD METER INSTALLATION FOR NEW CONSTRUCTION-200A MAX				
DRAWN BY: RV	SIZE: A	SIR BY: SWS	FILENAME: \\nfs\STD206E.dwg		REV: 1
DWG NO. STD206E	SCALE: NTS	DATE: 1/7/02		SHEET: 1 of 1	