

# Residential Electric Policy



7/19/16

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**\*All meter bases shall be Gallatin Dept. of Electric (GDE) approved meter bases, see GDE meter base policy, page 6. All meter base locations must be approved by GDE's Engineering Dept.**

**\*Aid to construction costs and fees are subject to change without notice. Please contact the GDE Engineering Dept. for updated cost.**

### **Construction**

The complete use of underground electric facilities is required in all new subdivision developments and for all new residential electric services unless specifically waived in writing by the Gallatin Department of Electricity (GDE). Developers/Owners will be required to pay an aid to construction cost of \$3,670 per lot. Existing services that are relocated or changed from overhead to underground will only pay a cost of \$15 per foot if the extension is over 150'. The developer/owner will submit a final plat approved by the City of Gallatin Planning Committee, provide an electronic cad layout/plat, request an electrical layout from GDE, provide all ditching and conduit, transport and place all vaults and required ground sleeves with a gravel base, call GDE for inspection of all ditching and conduit, backfill one foot, place marking tape and complete backfill (See **GDE's Specifications**, pg.10 for requirements).. GDE will provide and install underground primary wire, transformers, primary connections, and switching cabinets.

Any residential lot that requires an electrical extension of more than 150' will be required to pay an additional aid to construction of \$15 per foot. The developer/owner will provide, install, own, and maintain all conduits. The owner shall also own and maintain all service wire on underground services above 400 amps. GDE will provide, install, own, and maintain all service wire for services 400 amps and below.

Provisions shall be made by the developer/owner (including ditching, backfilling, and conduit) to loop feed each primary line where practical as determined by GDE's Engineering Department. Overhead exceptions may be granted for major feeder lines as determined by GDE on a case-by-case basis. However, the standard will still be underground utilities. Overhead lines require a 30' clear easement provided by the developer/owner. Exceptions will only be granted in letter form. GDE will provide standard above ground switching cabinets.

When the development requires the main line to be more than 200 amps on the primary lines as determined by GDE, the developer will pay an aid to construction charge that will be calculated per job and consist of the full cost of materials and labor.

The developer shall be responsible for the cost of any line extension required to serve a development that is not within or adjacent to the current footprint of the Gallatin City limits and/or GDE's current service territory. Extension costs shall include: any expense of acquiring easements and needed right-of-way clearing as well as all construction labor and material necessary to reach the proposed development. Any cost associated with a development that is above and beyond GDE's standard construction shall be at the expense of the developer. Costs could be back feed or redundant service requirements by the developer or below grade switchgear, or the like. GDE will maintain ownership of all primary infrastructure such as wire and transformers and be responsible for any replacement costs.

## **Ownership/Repairs**

Meter bases, service conduit from meter base to GDE's secondary equipment, risers, and point of attachment are the customer's property and the customer's responsibility to supply, maintain, and repair. This includes tree trimming for overhead services. GDE owns and maintains (does not include tree trimming) overhead (OH) and underground (UG) service wire, except on UG services over 400 amps, and OH service connections. The customer installs, owns, and maintains the UG service conduit on all services, and service wire on underground services over 400 amps. The service size is the sum of all meter bases per building. Any meter bases that have obstructed access or have been enclosed by porches, decks, patios, fences, walls, screens, etc., will be required to be relocated by customer. Failure to do so during the allotted time provided by GDE will result in termination of service until work has been completed. Customers with direct buried service wire that must be replaced are responsible for conduit and ditch work. GDE will determine when direct buried service wire must be replaced. Residential customers changing out meter bases, risers, service entrance wires, or doing any major electrical work will be required to update service to GDE specs, pass any required City Codes electric inspections, as well as meeting all current National Electric Code (NEC) and National Electric Safety Code (NESC) requirements. Any overhead service installation must be approved by GDE's Engineering Department. A 30' clear path will be required for all overhead services.

In the event of an act of God (unforeseen event) that results in the disruption of electricity supply, GDE reserves the right to restore electrical service to affected customers as soon as possible, even before the completion of electrical inspections, in its sole and absolute discretion. This policy is designed to prioritize the safety and well-being of our customers during emergency situations while addressing liability concerns. To expedite reconnection, affected homeowners are required to sign a "Release of Liability" form provided by GDE. By signing this form, the homeowner acknowledges and accepts the following conditions:

- GDE is authorized to reconnect electricity without waiting for electrical inspections.
- The property owner understands the potential risks associated with immediate reconnection and agrees to indemnify and hold harmless GDE from any liability, damage, or injury (including injury to third-party guests or invitees of property owner) that may result from the reconnection of electricity before inspections.
- The property owner will promptly arrange for all necessary electrical inspections and repairs to ensure compliance with local codes and safety standards.
- The property owner understands that an inspection by the City Codes must take place within three business days following GDE's reconnection of electrical service or GDE reserves the right to disconnect service.

## **Apartments/Multi-Unit Dwellings**

The complete use of underground electric facilities is required in all new multi-family/apartment complex developments unless specifically waived in writing by GDE. For single phase units, the developer/owner will be required to pay an aid to construction cost of \$1,260 per unit for new construction. For three phase units, the developer/owner will be required to pay the full cost of construction. The developer will submit a final plat, provide an electronic cad/plat layout, request an electrical layout from GDE, provide all ditching and conduit, transport and place all vaults and required ground sleeves with a gravel base, call GDE for inspection of all ditching and conduit, backfill one foot, place marking tape, and complete backfill.

The developer/owner will provide, install, own, and maintain all conduits. The owner shall also provide, install, own, and maintain all service wire on underground services above 400 amps. GDE will provide, install, own, and maintain all service wire for services 400 amps and below. The service size is the sum of all meter bases per building. Multi-tenant developments will be required to provide, install, and maintain service conduit and wire to all buildings if one building exceeds the 400-amp service size. GDE will not mix GDE service wire and customer service wire in these developments. All apartment/multi-unit dwellings shall have meter bases

numbered to GDE specifications (see **Labeling for Multi Metered Installations**, pg.20). Multi-gang meter bases must be approved by GDE's Metering Department. Meter troughs will not be allowed (see **Secondary Termination Enclosures**, pg.5). GDE will provide and install underground primary wire, transformers, primary connections, and switching cabinets.

Provisions shall be made by the developer (including ditching, backfilling, and conduit) to loop feed each primary line where practical as determined by GDE's Engineering Department. Overhead exceptions may be granted for major feeder lines as determined by GDE on a case-by-case basis. However, the standard will still be underground utilities. Exceptions will only be granted in letter form. GDE will provide standard above ground switching cabinets.

### **Modular and Manufactured Homes**

Modular homes are defined as a house that comes in more than one piece and assembled on the home site. Manufactured homes are one-piece houses with axles, commonly referred to as "mobile homes" or "trailers". Meter bases may only be mounted on modular homes that have a permanent foundation, tongue removed and are certified by the manufacturer that the building is rated for such an installation. These services will be underground. Homes not meeting these requirements and all manufactured homes will have underground service to a meter pedestal (pedestal must be approved by GDE's Metering Dept.) no more than 20' from building. Overhead service to risers or service poles will only be allowed if preapproved by the GDE Engineering Dept. The service poles will meet the minimum specs listed in **GDE Pole Setting Specs**, pg.10, along with all current NEC/NESC code requirements.

**Secondary Termination Enclosures**

GDE shall not connect to any new troughs. Secondary termination enclosures (provided by the Customer) will be used on all new services requiring multiple meters where ganged meter bases are not used. Existing troughs shall be replaced with secondary termination enclosures under the following circumstances: adding new load, upgrading service, adding a new service, or replacing GDE’s line side conductors.

Each individual service in the termination cabinet shall be labeled by unit number, suite number, or space number on the service cable for disconnect/reconnect purposes. The labeling must be approved by GDE’s Engineering Department. All conductors shall be routed behind the termination cabinet busbars.

Enclosures are the property of the Customer. There is a requirement for a GDE lock on these enclosures. A GDE employee will unlock the enclosure for the Customer when necessary and upon request.

The following are acceptable part numbers for termination enclosures. Any enclosure not listed must be approved by GDE’s Engineering Department.

CMC (Connector Manufacturing Company) Wall Mounted Three Phase							
Catalog Number	Max Wire Size	# of Cond. Per Phase	Dimensions - Inches			U.L. Listed Amp Rating	
			W	D	H	Copper	Aluminum
LWTE21-500	500 kcmil	21	32	16	51	3800	3100
LWTE14-750	750 kcmil	14	32	16	51	3325	2695
LWTE14-1000	1000 kcmil	14	32	16	51	3815	3115
Milbank Multi-Position Tap Box							
Catalog Number	Max Wire Size	# of Cond. Per Phase	Dimensions - Inches			U.L. Listed Amp Rating	
			W	D	H		
UAP6094-O-NES	500 kcmil	16	25 5/8	16	43	3000	
UAP6095-O-NES	500 kcmil	22	32 3/8	16	43	4000	
UAP6096-O-NES	1000 kcmil	14	25 15/16	16	51	3300	

**A disconnect is allowed in front of the termination enclosure. A disconnect is not allowed between the termination enclosure and the meter base.**



**Approved Self Contained Meter Bases**

Size	Phases	Type	Milbank	Durham	Siemens	Eaton
200 Amp	Single	OH	U7021-DL-YG-BL	RS213N	UAT3 / HQU4	UTRS202BCH
200 Amp	Single	UG	U1980-D-BL	UTRS223A	UAS8/UAS9 / HQW4	UTRS223ACH
225 Amp	Single	House Module			WCL204081T1RJ	
320 Amp	Single	OH	U1079-R-BL		HQST 4	UTH4300TCH
320 Amp	Single	UG	U1797-D-R3L-K2L-BL		HQDSW/SWD 4	UTH43369UCH
320 Amp	Single	OH/UG	U2448-X	H4330T		UTH4330TCH
200 Amp	Three	OH/UG	U7423-RXL	H7213T	HQND 5	
200 Amp	Three	OH/UG	U9701-RRL-BL		HQST 7 / HQW 7	
225 Amp	Three	Module			WCL2040B2T1RJ	
225 Amp	Three	Module			WCL2442B3T1RJ	
320 Amp	Three	OH/UG	U2120-X	UT-H7330-U	HQST 7	
320 Amp	Three	OH/UG	U2594-X		HQDSW/SWD 7	
600 Amp	Three	OH/UG	U4667-Xt-9506		(R-7T) 9817-9506	CH9506K7

**Approved Instrument Rated Meter Bases**

Size	Terminals	Type	Milbank	Durham	Siemens	Meter Devices
20 Amp *	8	Single Phase	UC7235-RL	R6821-8K	9804-8542	
20 Amp **	13	Three Phase	<b>Must be purchased from GDE. Contact ghooge@gdetn.com for purchase</b>			

**Approved Pedestal Service Entrance**

Size	Terminals	Midwest			
200 Amp	4	R281CTP6H			

\* 8 Terminal Base Requires Automatic Bypass Switch

\*\* 13 Terminal Base Requires test switch Durham # 1058 or Milbank # TS10-0111 (10 Pole)

\*\* 13 Terminal Base Must be prewired with test switch

**Specifications and Notes**

**\*NON-APPROVED METER BASES WILL NOT BE ENERGIZED BY GDE.**

**\*Multi Ganged, Stacked meterbases, and Module Bases are APPROVED on a case by case bases.**

Submit information to ghooge@gdetn.com

1. Steel Construction and UL Approved with Label
2. Location shall be approved by GDE's Engineering Dept.
3. Shall be surface mounted and on a permanent structure controlled by the Customer.
4. Shall not be in areas that are closed off by porches, decks, patios, fences, walls, screens, etc.
5. GDE shall have unobstructed access to meter base.
6. Shall have a 6' clearance from any obstruction in front of meter base.
7. Single and horizontal mounted gang bases shall be mounted 5'6" from final grade to center of meter opening.
8. Vertical mounted gang bases shall be 6" from final grade to center of top meter opening, with a 3' minimum from final grade to center of bottom meter opening.
9. GDE/Customer service wire will enter left side of meter base, customer load wires will exit right side facing meter base
10. Shall be installed to National Electric Code (NEC) requirements.
11. Instrument Rated bases shall have shorting ability to remove meter
12. 600 Amp and above services REQUIRE advance notice to be given to GDE Meter Department. Call 815-527-7006 or email ghooge@gdetn.com.

**Instrument Transformers**

1. All CT and PT's shall be provided by GDE.
2. Single Phase CT cabinet size shall be 36" x 36" x 12" with a 3/4" plywood backing for mounting of Instrument Transformers. Steel or aluminum construction.
3. Three Phase CT cabinet size shall be 48" x 48" x 12" with a 3/4" plywood backing for mounting of Instrument Transformers. Steel or aluminum construction.
4. CT cabinet must have provisions for a padlock. There shall be no conduits through top of CT cabinet
5. Single Phase - Electrician shall provide 5 wires, (BLACK, RED, BROWN, ORANGE, WHITE)
6. Three Phase - Electrician shall provide 7 wires (BLACK, RED, BLUE, BROWN, ORANGE, YELLOW, WHITE)
7. No marking tape shall be used on wires.
8. All CT and PT wires, 100' or less, shall be #12 stranded copper conductor. Distances over 100' require approval from GDE.

## **Decorative Street Lighting**

The following guidelines are for use by the subdivision/development developer to assist with the installation of decorative street lighting on the Gallatin Department of Electric (GDE) system.

### **Standards**

Decorative street lighting designed and serviced by GDE will only be allowed in areas with underground electric primary and City roads. If the road is private, GDE will not design or service street lighting. Any private road street lighting will be metered according to GDE specs.

GDE's Engineering Department will design and show the street lighting layout on GDE's conduit plan. The following general standards will be followed for the street lighting design.

1. A light will be placed at all public street intersections, roundabouts, and 90° turns.
2. A light will be placed in all cul-de-sacs.
3. Standard spacing between lights will be approximately 300' with a max spacing of 400'.
4. Public alleys in residential neighborhoods will not have public street lighting provided.

### **Overview**

The developer is responsible for the installation of all lights, foundations, conduit, and wire. The developer will choose lights from GDE approved lights and provide GDE with one (1) spare decorative streetlight for each fifty (50) installed. The cost of the lights will be charged as an aid to construction cost. This cost must be paid before GDE will release any material. Decorative lights can be picked up from GDE's warehouse once received. Decorative streetlights must pass a City Codes electrical inspection, meet GDE's specs listed in **GDE Decorative Light Specs**, pg.12, and meet GDE's inspections listed in **GDE Decorative Light Inspections**, pg.12, before being energized. The developer will be responsible for repairs during the first year the light is energized.

### **Procedure to have lights energized.**

A decorative streetlight will not be energized until passing a City Codes final electrical inspection and GDE's final inspection. After inspections have been completed, the developer or HOA may have the lights turned on to utilize the outdoor lighting. The lights will be billed monthly according to GDE's Outdoor Lighting Rate to the developer or HOA until lights are converted to the City of Gallatin account. Lights in residential developments will be converted to the City of Gallatin account once a permanent resident has service turned on to a house feeding from the same transformer as the decorative light. In commercial developments, the lights will be converted to the City of Gallatin account once the commercial building has been energized in the final tenant's name. However, the developer or HOA may choose not to use the decorative streetlights and wait until the lights have been converted to the City of Gallatin account before being energized.



## **Temporary Electric Service Policy**

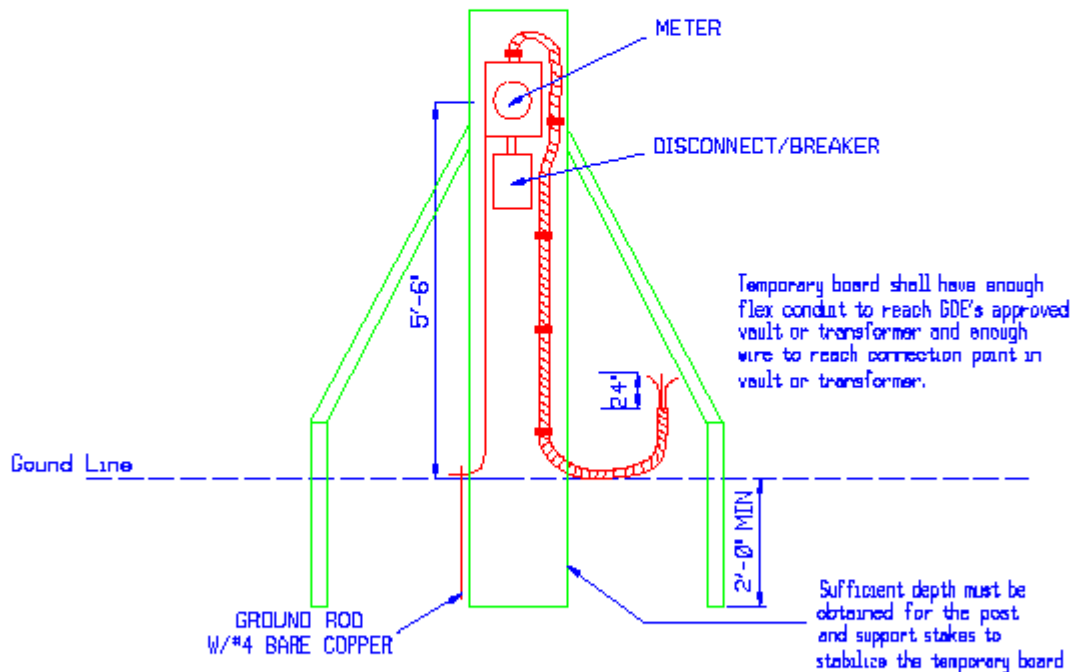
The Gallatin Department of Electricity (GDE) will provide electricity to customer-owned temporary boards according to the following guidelines:

1. **Labeling and Inspection:**
  - Temporary boards must be clearly labeled with the address and lot number of the property.
  - Each time the temporary board is installed or relocated; it must pass an electrical inspection conducted by the City Codes Dept.
2. **Underground Feed Requirement:**
  - Temporary boards must be fed underground unless otherwise approved by the GDE Engineering Department.
3. **Location Approval:**
  - The location of the temporary board must be approved by GDE's Engineering Department prior to installation.
4. **Overhead Installation Requirements:**
  - If approved for overhead installation, the temporary board must be installed rigidly in the ground with a minimum of 2 feet for the post and braces.
  - The temporary board must include braces or guys that adequately support the overhead service conductors and the weight of a 250lb person on a ladder leaned against the temporary board.
  - The overhead temporary board must include an eyebolt attachment for GDE's service conductors.
  - The attachment point and ground clearance to the service wire must comply with the National Electric Code (NEC) and National Electric Safety Code (NESC).
  - The overhead temporary board should not be installed more than 100 feet from GDE's approved pole.
5. **Temporary Board Fee:**
  - A \$100.00 temporary board fee will be charged by GDE. This fee covers the installation and removal of the service wire. The meter service charge and deposit are separate from this fee.
  - Additional charges will apply for extra trips or work beyond the standard scope.
6. **Additional Costs for Overhead Service:**
  - Temporary boards requiring more than 100 feet of overhead service wire or requiring temporary construction will incur additional costs.
  - The total installation and removal costs will be paid by the customer before work begins.
  - The cost to install a transformer to feed a temporary board is \$400.00.
7. **Removal of Temporary Boards:**
  - Customers or contractors must not remove a temporary board until the meter and service wires have been disconnected and/or removed by GDE.

**\*Aid to construction costs and fees are subject to change without notice. Please contact the GDE Engineering Dept. for updated cost.**

**GENERAL CONSTRUCTION NOTES:**

- 1) The GDE engineer will spot the temporary board location upon request.
- 2) The temporary board shall be installed at least 3' from and no more than 18' from GDE's approved service point.
- 3) Temporary electric service boards are not to be installed on GDE poles or trees.
- 4) Each temporary board must be labeled with address and lot number, and pass an electric inspection by the State Electrical Inspector each time the board is installed or relocated.
- 5) The temporary board clearance from other objects must meet all NEC and NESC requirements.



**IMPORTANT NOTE:**

CUSTOMERS OR CONTRACTORS WILL NOT REMOVE A BOARD UNTIL THE METER AND THE SERVICE WIRES HAVE BEEN REMOVED.

	UNDERGROUND TEMPORARY BOARD SERVICE	DATE 5/31/23
		STANDARD NUMBER UG TB

## GDE Underground Service Specifications

Inspection	Inspection
<p><b>Trench</b></p>	<p>*All construction work shall adhere to the standards set forth by the Occupational Safety and Health Administration (OSHA).</p> <p>*Shall be free from construction debris, as well as large or sharp rocks that could potentially damage the conduit or impede construction.</p> <p>*The conduit shall be installed in a straight line from GDE’s secondary box to the meter base, ensuring a direct and uninterrupted path.</p> <p>*The conduit shall not be located under any permanent structures.</p> <p>*Backfill material must be free of any substances that may damage the conduit. If clean backfill is unavailable, <b>#67 gravel</b> will be used as an alternative.</p>
<p><b>Conduit</b></p>	<p>*All conduit installations shall be inspected prior to backfilling the ditch to ensure proper installation.</p> <p>*Services ranging from <b>200 to 400 amps, 3" Schedule 40 PVC conduit</b> shall be used.</p> <p>*Services <b>above 400 amps</b>, inspections will be conducted by City Codes as the customer will supply and install service wires.</p> <p>*An <b>expansion joint</b> is required on all services below the meter base.</p> <p>*All conduits installed above ground shall be <b>Schedule 80 PVC</b>.</p> <p>*Only two 90° 24-inch radius schedule 80 PVC elbows may be used for each conduit run. Any additional elbows or sharper turns must be approved by GDE</p> <p>*Conduit shall be installed at a minimum depth of <b>30 inches</b>.</p> <p>*A minimum separation of <b>12 inches</b> (both vertical and horizontal) must be maintained between the conduit and any other utilities, except for AT&amp;T/Comcast service drops, which may be closer.</p> <p>*A <b>pull string</b> must be installed in all conduit runs</p>
<p><b>Meter Base</b></p>	<p>*Must be installed per NEC code requirements, and meet GDE’s meter base policy</p>
<p><b>Ground rod/wire</b></p>	<p>*Must be installed per NEC code requirements. (Driven in undisturbed soil)</p>

**\* All inspection requirements must be met as well as grading to within 3” of final grade before notifying GDE for an inspection.**

## GDE Pole Setting Specifications

Pole Height	Set depth with dirt backfill
25'	5'
30'	5'
35'	5.5'

## GDE Underground Primary/Secondary Specifications

Inspection	Requirements
<b>Conduit</b>	<p>*Conduit will be inspected and approved prior to the backfilling of the ditch.</p> <p>*All work shall be performed in accordance with GDE's approved conduit drawings and details.</p> <p><b>*Primary conduit</b></p> <ul style="list-style-type: none"> <li>- Minimum installation depth: <b>48 inches</b>.</li> <li>- Minimum horizontal separation from communications conduits: <b>12 inches</b>.</li> <li>- Minimum vertical separation from other utilities at crossings: <b>12 inches</b>.</li> <li>- Minimum separation when paralleled with other utilities: <b>5 feet</b>.</li> </ul> <p><b>*Secondary conduit</b></p> <ul style="list-style-type: none"> <li>- Minimum installation depth: <b>30 inches</b>.</li> <li>- Minimum vertical and horizontal separation from other utilities: <b>12 inches</b>.</li> </ul> <p><b>*Elbow Requirements</b></p> <ul style="list-style-type: none"> <li>- Secondary 2" and 3" Sch. 80 24-inch radius for 90-degree elbows.</li> <li>- Primary 2" and 3" Galvanized Conduit: 24-inch radius for 90-degree elbows.</li> <li>- Primary 4" Galvanized Conduit: 36-inch radius for 90-degree elbows.</li> </ul> <p><b>*Backfill Specifications</b></p> <ul style="list-style-type: none"> <li>- Backfill material must be free of any substances that may damage the conduit.</li> <li>- If clean backfill is unavailable, <b>#67 gravel</b> will be used as an alternative.</li> </ul> <p><b>*Conduit damaged</b></p> <ul style="list-style-type: none"> <li>- Any conduit that is damaged before the wire is installed must be replaced or repaired by the developer.</li> </ul> <p><b>*Coordination with GDE</b></p> <ul style="list-style-type: none"> <li>- All conduit installation within existing GDE equipment must be coordinated with GDE for approval and proper execution.</li> </ul>
<b>Final</b>	<p>*GDE's Final Inspection Check List (pg13) must be completed, signed, and returned to GDE before final inspection will be scheduled.</p>

## GDE Decorative Light Specifications.

Material	GDE Specs
Conduit	*1" schedule 40 PVC (unless otherwise specified) with 24" radius elbows
Decorative Fixtures	*See Approved Light Fixtures
Decorative Pole	*See Approved Light Poles
Lamps	*See specs listed in Approved Light Fixtures
Photocell	*See specs listed in Approved Light Fixtures
Conductor	*NEMA Listed THHN/THWN Copper, 600v, 90° C #12, #4, or #6 AWG (must maintain less than 5% voltage drop from source).
Pole Base Fuses and Fuse Blocks	*Fuse link with fuse installed required in pole base.

## GDE Decorative Light Inspections

Note: The conduit, footing, and final inspections below are done by GDE and not by City Codes.

Inspection	Requirements
Conduit	<ul style="list-style-type: none"> <li>*Conduit will be inspected by GDE prior to backfilling ditch.</li> <li>*All work shall be performed to GDE's conduit drawings and details.</li> <li>*2'-0" depth with minimum of 12" separation (vertical and horizontal) from other utilities.</li> <li>*Backfill shall be soil free of material that may damage conduit or gravel.</li> <li>*Conduit damaged before lights are energized must be replaced by developer.</li> <li>*All conduit installed in existing GDE equipment must be coordinated with GDE.</li> </ul>
Footing	<ul style="list-style-type: none"> <li>*Shall be built to GDE Decorative Street Light Footing Detail (pg.23).</li> <li>*First GDE footing inspection shall be scheduled <b>before</b> concrete has been poured. Rebar, anchor bolts, ground wire, and ground rods shall be installed.</li> <li>*Second GDE footing inspection shall be scheduled <b>after</b> concrete has been poured.</li> <li>*Poles shall not be installed until second inspection has been completed.</li> </ul>
Final	<ul style="list-style-type: none"> <li>*<b>Light must pass a City Codes electrical inspection before scheduling the final GDE inspection.</b></li> <li>*All wiring, connectors, and fuses installed.</li> <li>*Poles plumb, level, and securely mounted.</li> <li>*Fixture oriented correctly with street. ("street side" embossed on fixture must be turned toward the street)</li> </ul>

**GALLATIN DEPARTMENT OF ELECTRICITY**

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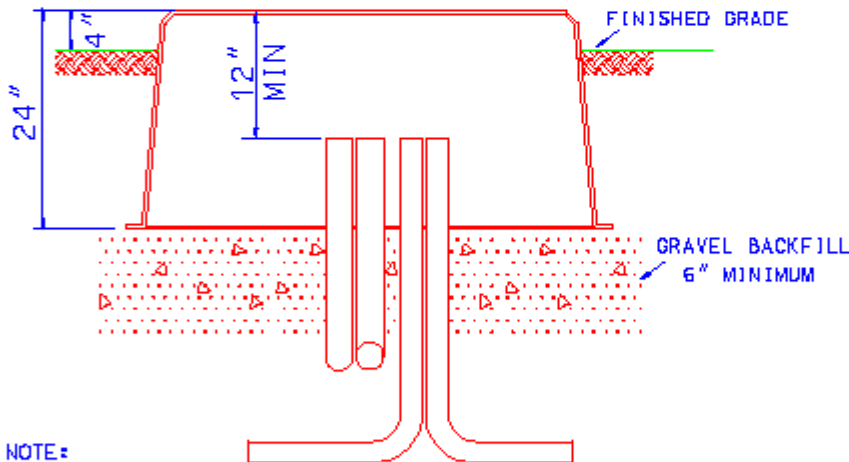
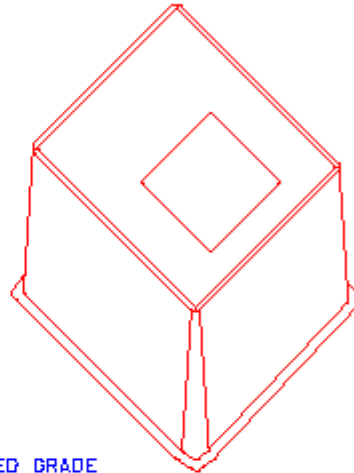
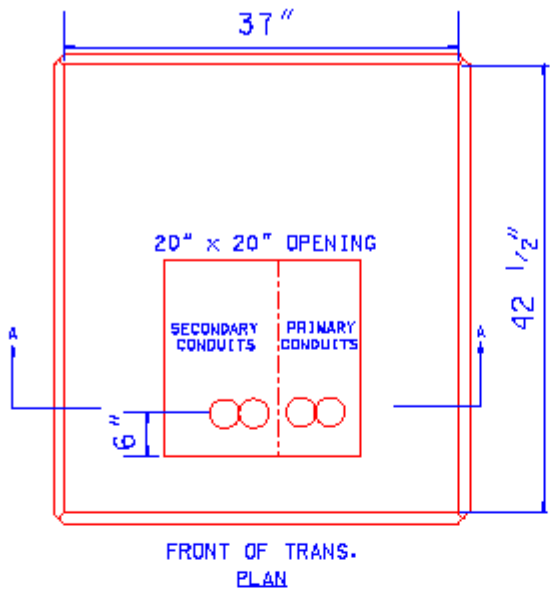
## **GDE Final Conduit Inspection Check List**

This checklist is to assist developers with the requirements for a GDE final conduit inspection. Please ensure the requirements have been met before signing, dating, and returning form to GDE for a final conduit inspection. This list is meant to be a guide and is subject to change without notice. Specifications available [www.gallatinelectric.com/engineering](http://www.gallatinelectric.com/engineering).

- 1. Property Pins installed and labeled.
- 2. Curbs installed.
- 3. Grade within 6" of final grade from back of utility easement to curb.
- 4. All GDE conduits and ground sleeves installed in utility easement.
- 5. All secondary vaults installed per GDE Secondary Vault Detail.
- 6. Ground sleeves installed per GDE Ground Sleeve Details.
  - 6A. Ground sleeves backfield to within 6" of top of pad.
  - 6B. Ground sleeves level.
  - 6C. Conduits cut 12" below top of ground sleeve.
  - 6D. Conduits arranged in ground sleeve per the GDE Ground Sleeve Details.
  - 6E. No trash inside of ground sleeve.
- 7. Conduits arranged per GDE Underground Distribution spec for underground primary construction, or GDE Underground Secondary Conduit System spec for overhead primary construction.
  - 7A. 36" minimum spacing between GDE 3" secondary conduit and communication conduits.
  - 7B. 18" minimum spacing between GDE ground sleeve and communication conduits on underground primary construction.
  - 7C. 24" minimum spacing between pole and GDE 3" secondary conduit on overhead primary construction.
- 8. 1800lb minimum pull tape/mule tape in all conduits with 6' tail on each end.
- 9. All conduits installed per GDE Conduit Layout.
- 10. Any work done to unstop, repair, etc. after final inspection will be billed to developer at full cost.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

LIGHTING THE WAY FOR THE CITY OF GALLATIN SINCE 1939



**NOTE:**

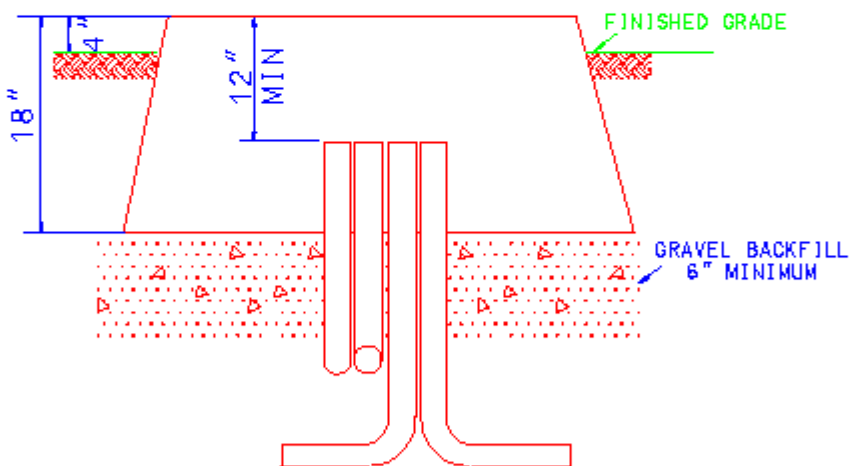
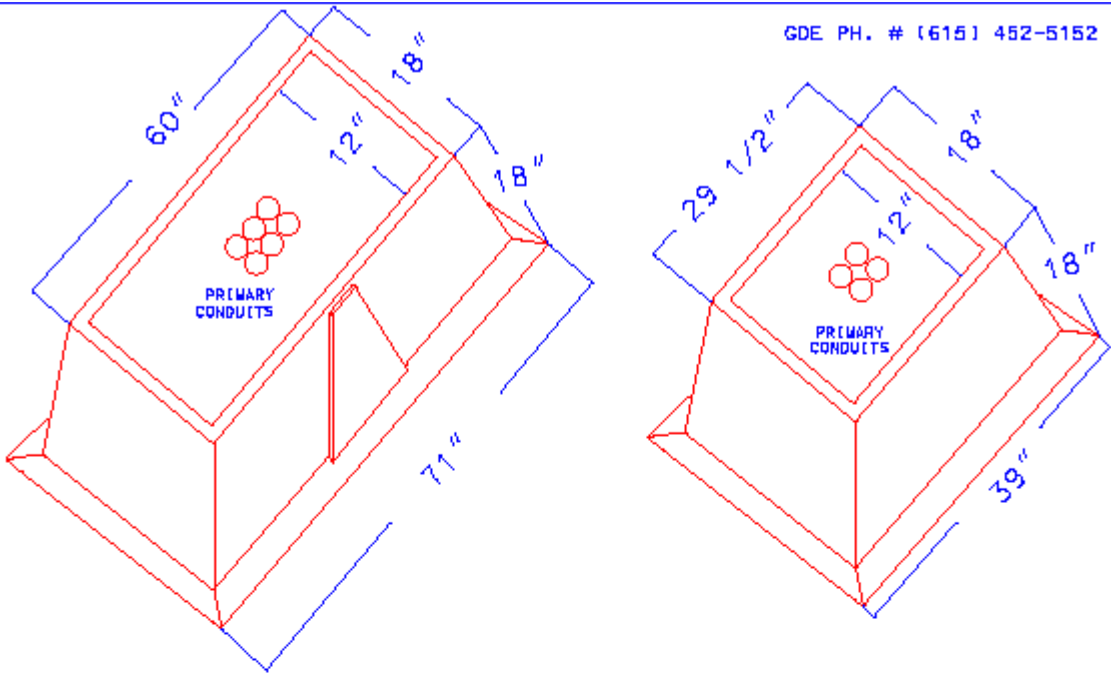
- 1 - PRIMARY & SECONDARY CONDUITS TO BE LOCATED AS SHOWN ABOVE.
- 2 - CONDUITS TO STOP AT LEAST 12" BELOW TOP OF PAD.
- 3 - PRIMARY CONDUITS TO BE 48" DEEP.
- 4 - SECONDARY CONDUITS TO BE 30" DEEP.
- 5 - SLEEVE TO SET ON GRAVEL BACKFILL FROM BOTTOM OF DITCH TO PAD BOTTOM.
- 6 - CONDUIT & SLEEVES DAMAGED BEFORE WIRE IS INSTALLED MUST BE REPLACED/REPAIRED BY DEVELOPER.
- 7 - TRANSFORMER 0-75KVA TO BE A MINIMUM OF 10' FROM STRUCTURE.  
TRANSFORMERS 75-333KVA TO BE A MINIMUM OF 20' FROM STRUCTURE.



TRANSFORMER GROUND SLEEVE DETAIL  
SINGLE PHASE

DATE: 5/31/23

STANDARD  
NUMBER  
UMF-1P



- NOTE:
- 1 - PRIMARY CONDUITS TO BE LOCATED AS SHOWN ABOVE.
  - 2 - CONDUITS TO STOP AT LEAST 12" BELOW TOP OF PAD.
  - 3 - PRIMARY CONDUITS TO BE 48" DEEP.
  - 4 - SLEEVES TO SET ON GRAVEL BACKFILL FROM BOTTOM OF DITCH TO PAD BOTTOM.
  - 5 - VAULTS TO BE A MINIMUM OF 10' FROM STRUCTURE.
  - 6 - CONDUIT & SLEEVES DAMAGED BEFORE WIRE IS INSTALLED MUST BE REPLACED/REPAIRED BY DEVELOPER.

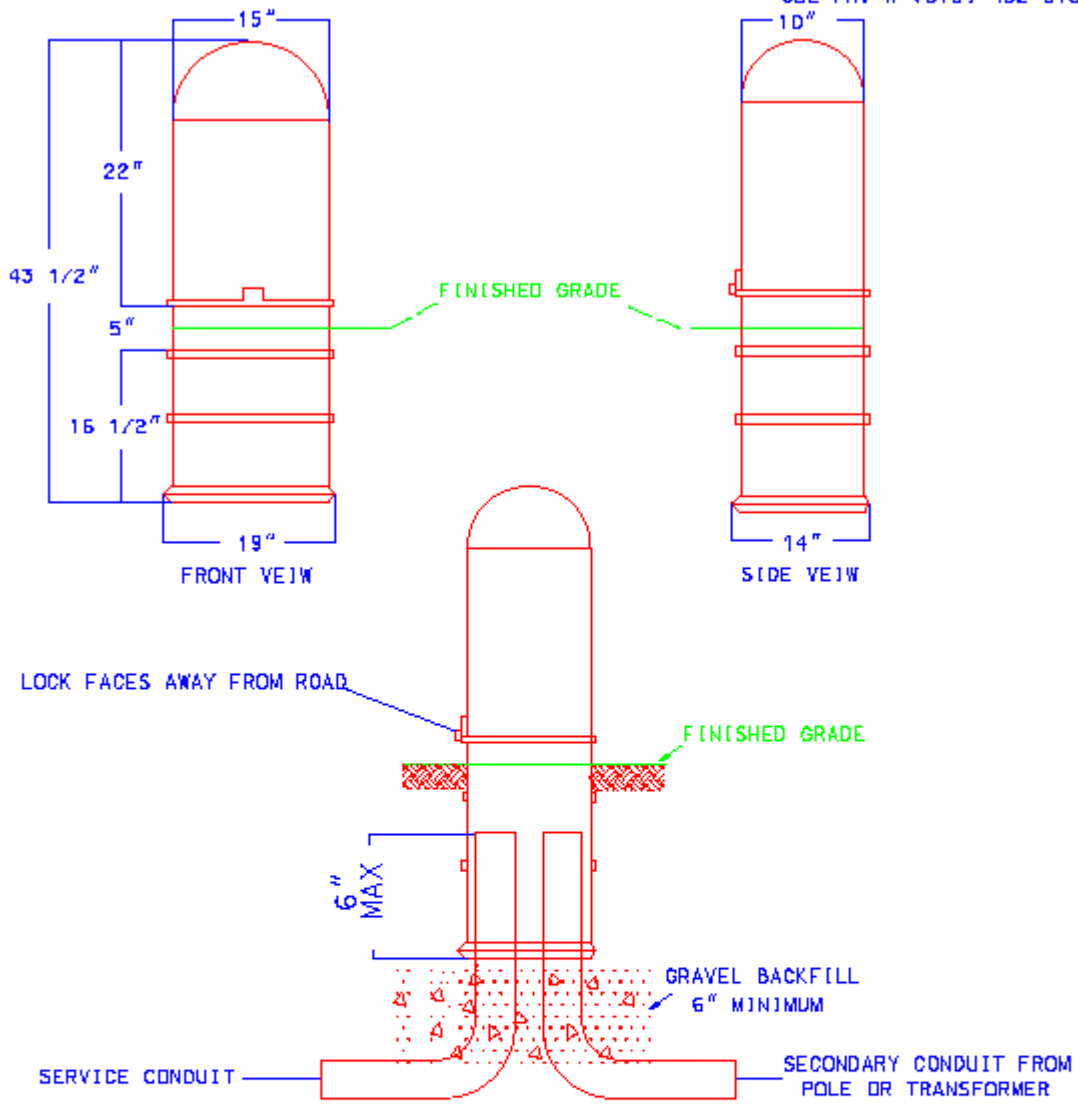


PRIMARY VAULT GROUND SLEEVE DETAIL  
SINGLE AND THREE PHASE

DATE 5/31/23

STANDARD  
NUMBER  
UPV-1P  
UPV-3P



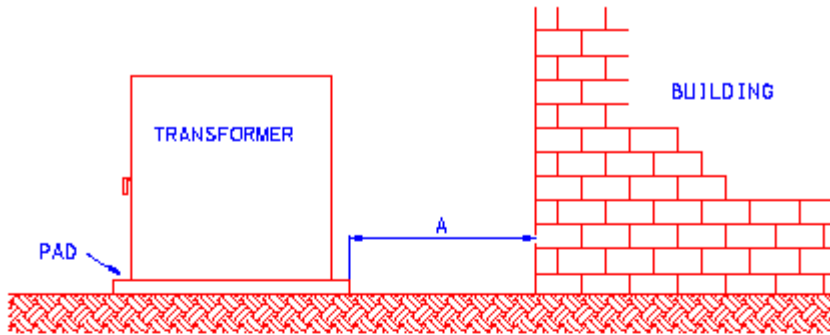


- NOTE:
- 1 - SECONDARY CONDUITS TO BE LOCATED AS SHOWN ABOVE.
  - 2 - SECONDARY CONDUITS TO BE 30" DEEP.
  - 3 - CONDUITS TO STOP A MAX OF 6" ABOVE BOTTOM OF BOX.
  - 4 - VAULT TO BE LEVEL AND PLUMB
  - 5 - VAULT TO BE A MINIMUM OF 5' FROM STRUCTURE.
  - 6 - CONDUIT & VAULTS DAMAGED BEFORE WIRE IS INSTALLED MUST BE REPLACED/REPAIRED BY DEVELOPER.



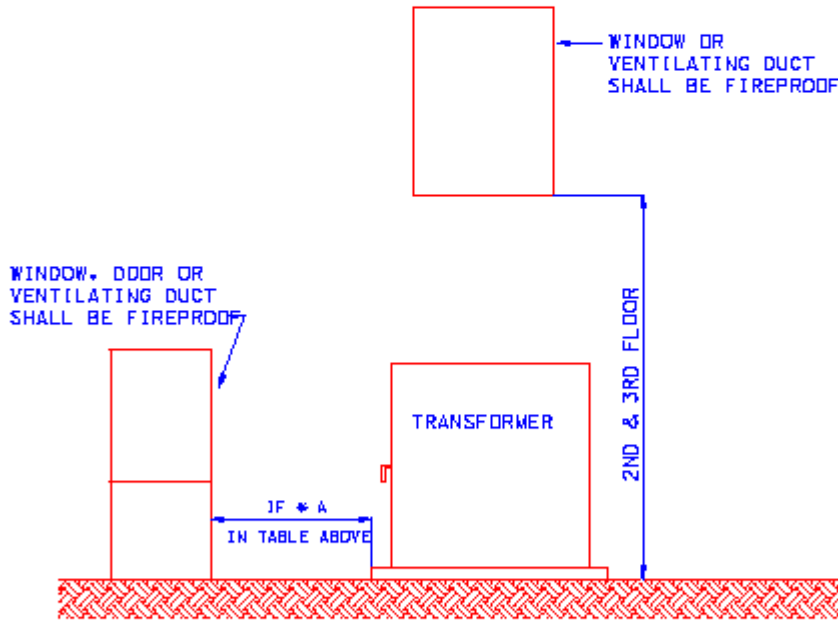
SECONDARY VAULT

DATE: 5/31/23  
 STANDARD NUMBER  
 UGSECV



DIMENSION A	TRANSFORMER KVA	BUILDING WALL & EAVES
10'	0-75	NOT FIRE RESISTANT
20'	76-333	NOT FIRE RESISTANT
30'	334 AND LARGER	NOT FIRE RESISTANT
3'	ALL SIZES	FIRE RESISTANT (8" BRICK, ETC.)

ELEVATION VIEW



ELEVATION VIEW

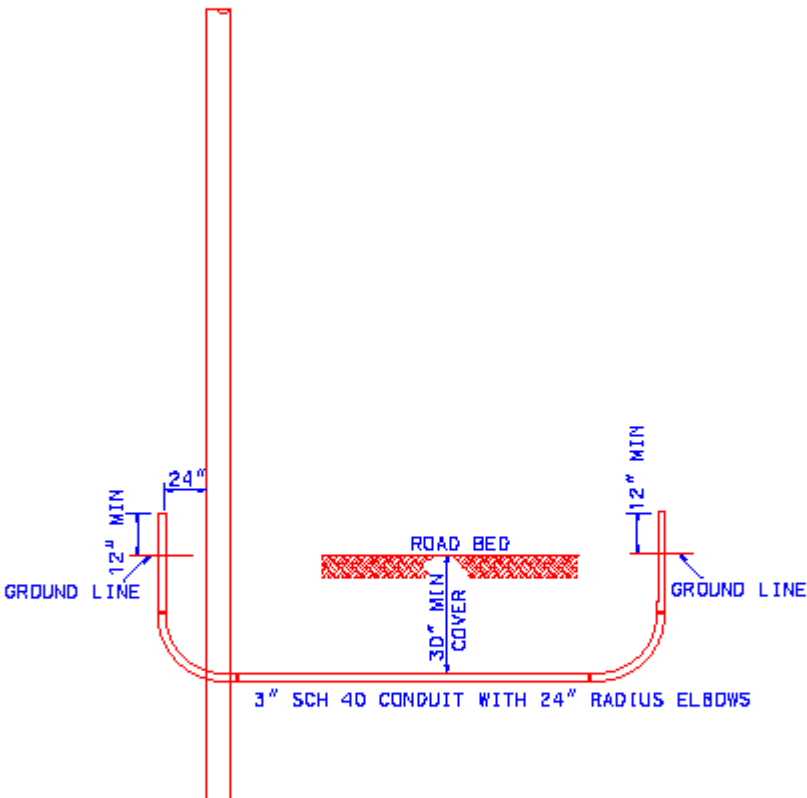
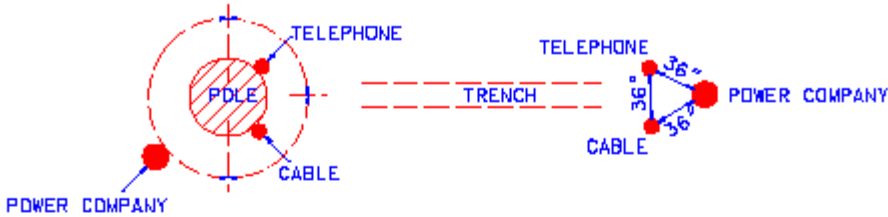


TYPICAL SITING REQUIREMENTS  
FOR PAD-MOUNT TRANSFORMER

DATE: 5/31/23

STANDARD  
NUMBER

UMT-1



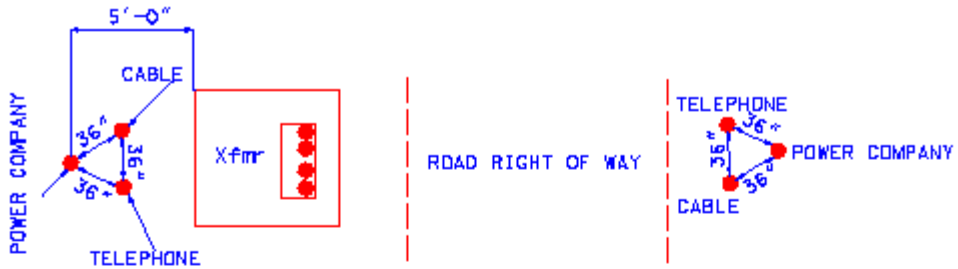
- NOTES:
- 1) CONTRACTOR TO SUPPLY AND INSTALL CONDUIT WITH PULL STRING
  - 2) CONTRACTOR TO SUPPLY AND INSTALL CAPS AT BOTH ENDS OF CONDUIT
  - 3) PULL STRING TO HAVE AT LEAST 1800 LB TENSILE STRENGTH
  - 4) CABLE TV AND PHONE CONDUITS INSTALLED ON STREET SIDE OF POLE
  - 5) POWER COMPANY CONDUIT TO BE INSTALLED ON SIDE OF POLE AWAY FROM STREET
  - 6) CONDUIT DAMAGED BEFORE WIRE IS INSTALLED MUST BE REPLACED/REPAIRED BY DEVELOPER



UNDERGROUND  
SECONDARY  
CONDUIT SYSTEM

DATE: 5/31/23

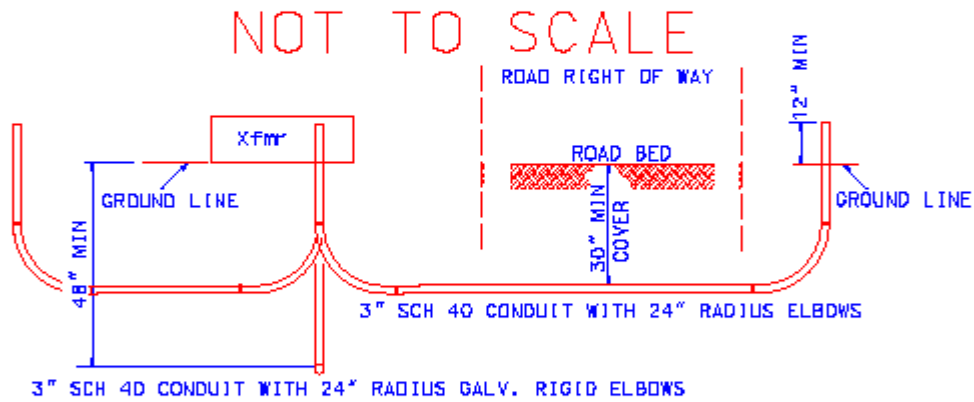
STANDARD  
NUMBER  
USEC



NOT TO SCALE

NOTES:

POWER COMPANY CONDUITS AND TRANSFORMER TO BE LOCATED IN THE UTILITY EASEMENT



NOT TO SCALE

NOTES:

- 1) CONTRACTOR TO SUPPLY AND INSTALL CONDUIT WITH PULL STRING
- 2) CONTRACTOR TO SUPPLY AND INSTALL CAPS AT BOTH ENDS OF CONDUIT
- 3) PULL STRING TO HAVE AT LEAST 1800 LB TENSILE STRENGTH
- 4) ALL CONDUIT TO BE INSPECTED BY GDE PRIOR TO BACKFILLING
- 5) CONDUIT DAMAGED BEFORE WIRE IS INSTALLED MUST BE REPLACED/REPAIRED BY DEVELOPER



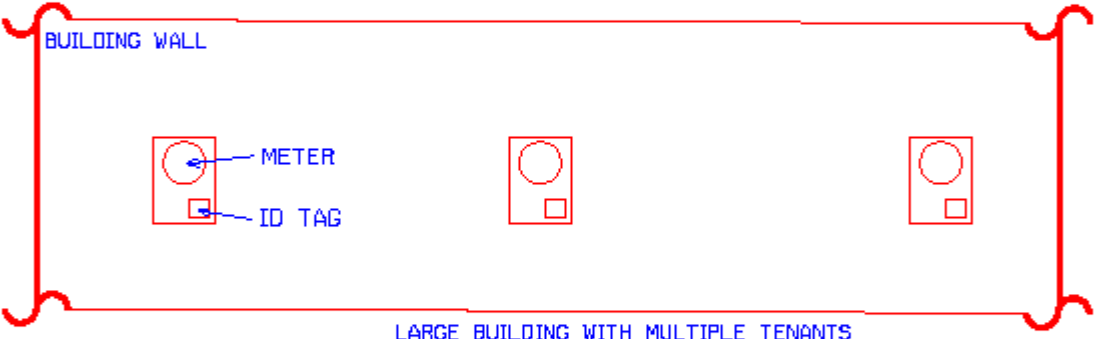
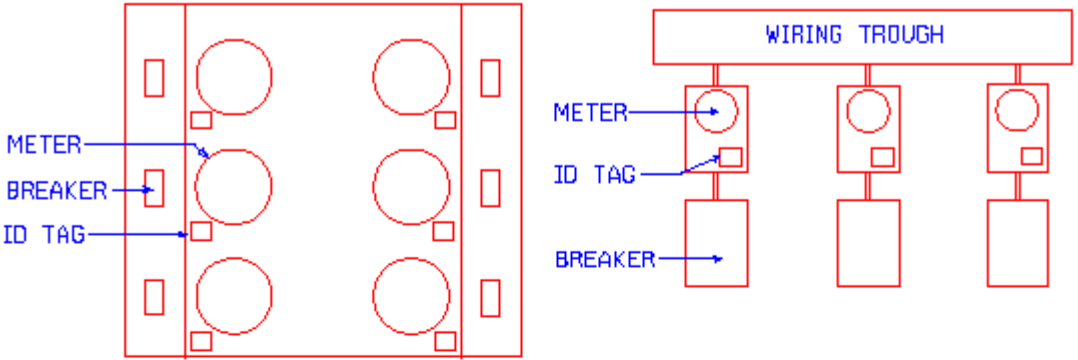
UNDERGROUND  
DISTRIBUTION  
SYSTEM

DATE 5/31/23

STANDARD  
NUMBER


UDIST

Wiring troughs are no longer allowed, must now use secondary top boxes.



NOTES:

- 1- Buildings such as apartment buildings, retail strip centers, duplexes, triplexes, town homes, and etc. which have more than one meter shall have all meters labeled to identify the premises they serve.
- 2- The label shall have the apartment/building number or street address.
- 3- The label shall be outdoor rated brass or stainless steel.
- 4- The labels shall be attached to the meter base with rivets or screws.
- 5- The identification numbers/letters shall be stamped or engraved.
- 6- The identification numbers/letters shall have a character size of at least 1/2" in height.

	<p>LABELING FOR MULTI-METERED INSTALLATIONS</p>	<p>DATE: 3/6/00</p>
		<p>STANDARD NUMBER</p> <p>LABEL</p>

