

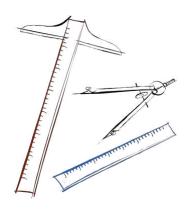


Large Commercial Services & Developments

Electric and Gas Service Package











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- Documents Required for Electrical Service
- Large Commercial Electric and Gas Service Application
- Electric and Gas Equipment and Load Templates
- Specification Drawings for:
 - Utility Site Requirements (Example)
 - 3-Phase Ductbank (Riser To Pad)
 - 3-Phase Transformer Pad
 - 3-Phase Transformer Pad W\Tap Box
 - 3-Phase Riser Pole And Conduit Encasement
 - 4 Ft Removable Bollard
 - Easement Requirements
 - Temporary Meter Loop (Example)



The 15-Week Large Commercial Electric Service Process

(For All Pad-Mounted Transformer Services)

| Customer's Steps To get your service in the minimum time, please keep these steps on schedule. | Step | Typical Elapsed Time ^[c] | CPS Energy (CPSE) Steps |
|---|------|---|---|
| Deliver essential documents to CPS Energy^[b] Application Sealed site plan drawings, sealed loads, and sealed one line | A | Clock is not started | Collect information from customer. |
| Attend a pre-design meeting ^[b] | в | Clock is not started | Engineer discusses needs with customer and review drawings. |
| For new construction, please view the CPSE Web Portal to monitor the project schedule and the transactions between CPSE and you. (The Portal is not available for remodeling jobs.) | 0 | C lock S tarts | Pre-design meeting has been completed. A complete customer package has been received: Application, sealed site drawings, sealed electric loads, sealed one-line. |
| Host a site visit ^(b) | 1 | Week #1 | Evaluate site layout, utility coordination, customer construction coordination, construction access. |
| Receive and comply with CPSE construction drawings ^[b] | 2 | Week #2-5 | Design electric service; coordinate with the electric system (circuit capacity, fuses). C reate a cost estimate and bill the customer. |
| Expedite payment to CPSE ^{[a][b]} Provide third party easements ^{[b][d]} | 3 | Week #6-7 | Receive customer payment. |
| Form up ductbanks and pads and schedule CPSE inspection. Call 353-3373. A 24-hr notice is required Pour concrete and schedule CPSE inspection. This might be delayed until early in the next step to coordinate with CPSE construction A 3-day cure is required to set pad mounted transformers on slabs | 4 | Week #8 | Prep for CPSE construction Check materials. Receive dig permits. Schedule crews. Inspect the forms for slabs and ductbank. Inspect concrete. |
| CPSE crews will leave the site if the following conditions are not satisfactory. Maintain stakes and visible street address. Remove debris and maintain construction access to site for CPSE crews. Notify CPSE^[b] that site is ready to install meter "Site ready" includes completed installation of meter loop, transformers, conduits, and power cables on the CPSE side of the meter. | 5 | Week #9-13 | Construct CPSE facilities. Install transformer. |
| | 6 | Week #14-15 | • Set meter, initiate electric service. |

a. If a Customer Step is late, the Clock stops. Please stay on top of payments and meter loop completion.

b. Please view the web portal to determine your CPS Energy representative. You may also call Commercial Services with your **Work Request #** to identify your CPS Energy representative. (210.353.4050)

c. Elapsed times are not a guarantee. More than fifteen weeks will probably be needed for long ductbanks or upgrades to CPS Energy's infrastructure.

d. Customer is required to provide CPS Energy with the required easements prior to being energized.



Documents Required for CPS Energy Pad-Mounted Transformer Service

Documents must be SEALED ENGINEERED DRAWINGS

Utility Site Plan – Hard Copy/PDF and in AutoCAD 2000 format

- Desired Route of Overhead Primary
- Riser Pole Location (inline risers typically not allowed)
- Desired Route of Underground Primary ductbank & manholes
- Detailed transformer location
 - Show Perimeter Clearance
 - Dimension from building/structures
 - S how side the transformer doors will open
- Meter Location (dimension if other than side of transformer)
- Location of main distribution switch and/or tap-box and secondary routes from transformer

Electrical One-line Diagram – Hard Copy/PDF and in AutoCAD 2000 format

- Secondary Cable
 - Size, Number per phase, Total Number of Secondary Cables, Type (Cu or Al), Neutral Size

Secondary exiting transformer by:

- Conduit (number & size), number of spares
- Wireway Size
- Cable Tap-Box (Customer to provide cut sheet)
- Auto Throwover S witch for Generator Installation (Customer to provide cut sheet)
- Meter Location (If meter modules are used customer to provide cut sheet and voltage drop calculations from transformer to meter modules)

Electrical Load Summary – Hard Copy/PDF and in AutoCAD 2000 format

- Building Square Footage
- Hours and days of operation
- Customer's Service Voltage
- Connected Load in kVA (Reference Load Information Sheet for Break Down)
 - Existing Load if applicable, A/C & Heat, Lighting, Motor Load, Receptacles, Other, Total
 - Unusual loads require discussion

Electrical Load Panels – Hard Copy/PDF and in AutoCAD 2000 format

Documents must be SEALED ENGINEERED DRAWINGS



"Please e-mail completed Application form to <u>ce@cpsenergy.com</u> or call (210) 353-4050 for mailing instructions."

Commercial Electric/Gas Service Application

Application must be completed and accompanied by the following: Site Plan, Electric and Gas Load Information, Building Square Footage, Service Voltage, Meter Loop Diagram, Gas Pressure, Environmental Survey (Please print or type)

*** REQUIRED TO INITIATE WORK REQUEST**

| * Date | | * Project I | Name: | | | | | | | | |
|--|--|------------------|----------|---|---------|-----------------|------------|---------------------------------------|----------------------------|---------|-----------|
| | | * Project / | Address: | | | | | | | | |
| * Electrical | Contractor | | | | | | * | Phone # | | | |
| * Email | | | | | | | | | | | |
| * Developer | Contact | | | | | | * | Phone # | | | |
| * Email | | | | | | | | | | | |
| * General | Contractor | Contact | | | | | * | Phone # | | | |
| * Email | | | | | | | | | | | |
| * Engineer | Contact | | | | | | * | Phone # | | | |
| * E-mail | | | | | | | | | | | |
| Business Type | Bank Church Comml Off Departmer Grocery St | nt Store | Hote | pital el = ustrial/Ma Specify T taurant | | | Ret Sch | rehouse | nter e <i>cify Ty</i> p | pe) | |
| Service Type | (NOTE: 300kva dei | | e 🗌 F | Gas Meter Or Remodel Remode | /Upgrac | le ade Meter | Number | * Service F * Buildin | - | | tage |
| * C ustom Customer * Billing / Information | | of Record | | ED TC |) INIT | IATE W | ORK R | EQUES Open * Phone # * Fax # | T Charge | Yes | <u>No</u> |
| | | * Tax ID# | | | | | | _ | | | |
| Associated | d WR #'s (CP | S Energy Us | se Only) | | | Engineer | | | Phone | | |
| IDS | | | | | | Designer | | | Phone | | |
| UG | | Gas | | (| Other | | | | | | |
| ОН | | | | (| Other | | | | | | |
| Comments: | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| De | eveloper/R epr | esentative S | ignature | | | | CPS | Energy Rep | resentati | ve Sigi | nature |

Commercial Services Application Form 3-29-12



LOAD INFORMATION

LOAD INFORMATION MUST BE SIGNED/SEALED BY A PROFESSIONAL ENGINEER

| Project\Bu Address: | siness: | | | | | | |
|------------------------|--|-----|---|--|--|--|--|
| Power Rec Voltage: | uirements: 120/240 1-Phase 277/480Y 3-Phase Cher: ELECTRICAL EQUIPMENT | | | | | | |
| | | kVA | | | | | |
| | A/C | | | | | | |
| | LIGHTING | | | | | | |
| | RECEPTACLES | | | | | | |
| | HEATING | | | | | | |
| | WATER HEATER | | | | | | |
| | COMPUTERS | | | | | | |
| | REFRIGERATION | | | | | | |
| | ELEVATORS | | | | | | |
| | MOTORS | | | | | | |
| | OTHER | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | TOTAL | | | | | | |
| | GAS EQUIPMENT | | | | | | |
| | Pressure Required | BTU | | | | | |
| | F UR NAC E | | | | | | |
| | BOILER | | | | | | |
| | COOKING | | | | | | |
| | WATER HEATER | | | | | | |
| | | | i de la companya de l | | | | |

POOL\SPA HEATER

OTHER EQUIPMENT

GAS LIGHTING

TOTAL



PROJECT NAME and ADDRESS: _____

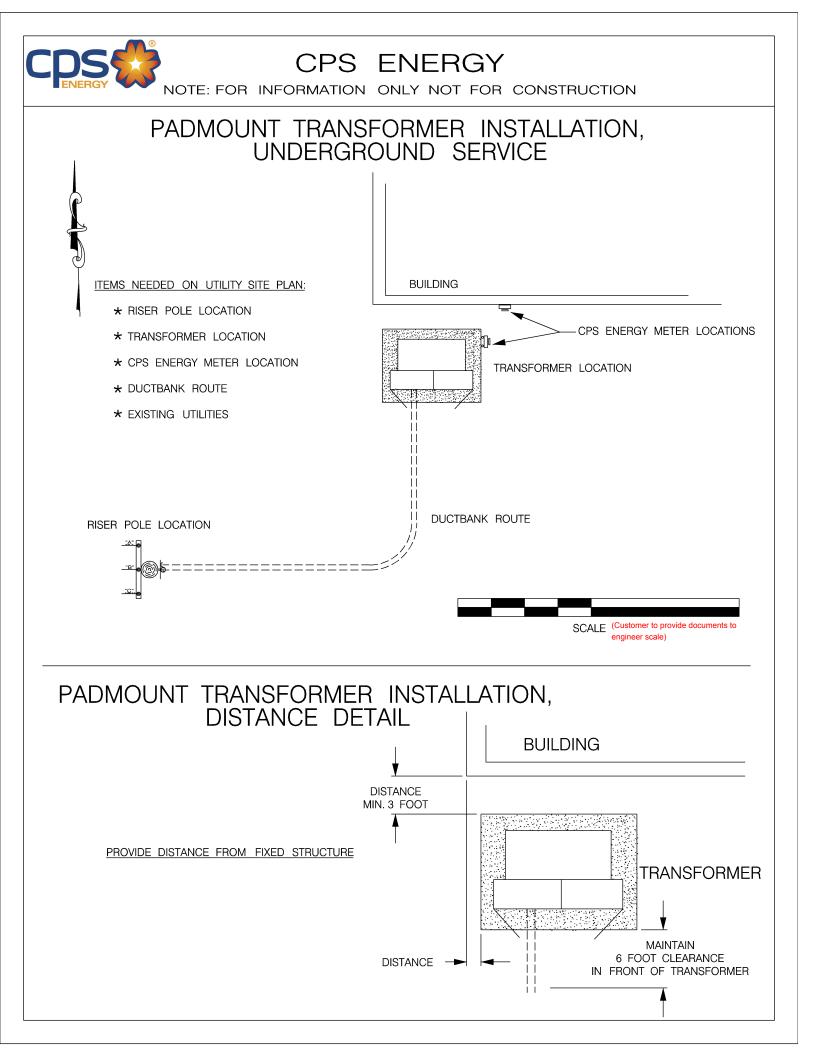
All construction work performed by CPS Energy in providing service to our customers must comply with all applicable environmental regulations. CPS Energy encourages customers to include CPS Energy's work in any required permits/plans that are obtained by the customer for their projects to expedite environmental compliance review and to keep the project on schedule.

This Checklist must be filled out completely and submitted with the appropriate Application for service in order to be processed. CPS Energy recommends that customers submit all required documentation as soon as possible in order to avoid any potential delays.

Please refer to the CPS Energy Environmental Compliance Review document for additional information or contact your CPS Energy representative.

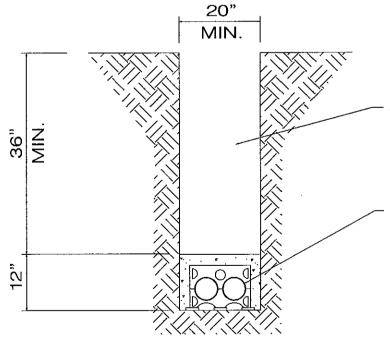
Instructions: For <u>each</u> Environmental Category below, please check the <u>one</u> box that applies and specify whether CPS Energy's offsite work will be covered in customer's permits/plans.

| Environmental Category | Environmental Form | Copy of form provided <u>with</u> Application | Copy of form to be provided <u>after</u> Application | Form Not Applicable | CPS offsite work covered? Y/N/TBD |
|--|---|--|--|------------------------|--|
| Storm Water Pollution Prevention | Storm Water Pollution Prevention Plan | | | | |
| Endangered Species Act (Karst Zones 1 & 2) | Habitat Compliance Form | | | | |
| Endangered Species Act (Songbirds) | Habitat Compliance Form, and | | | | |
| | Tree Permit or Tree Affidavit Waters | | | | |
| of the US | Individual or Nationwide Permit | | | | |
| Cultural and Historic Resources | Cultural and Historic Resources Letter | | | | |
| Edwards Aquifer | Water Pollution Abatement Plan or Contributing Zone Plan | | | | |
| Other (Specify): | | | | | |
| Federal Project | | Yes | No | | |
| Comments: | | | | | |
| Signature: | | | | | |
| Printed Name: | | | | | |
| Date: | | | | | |





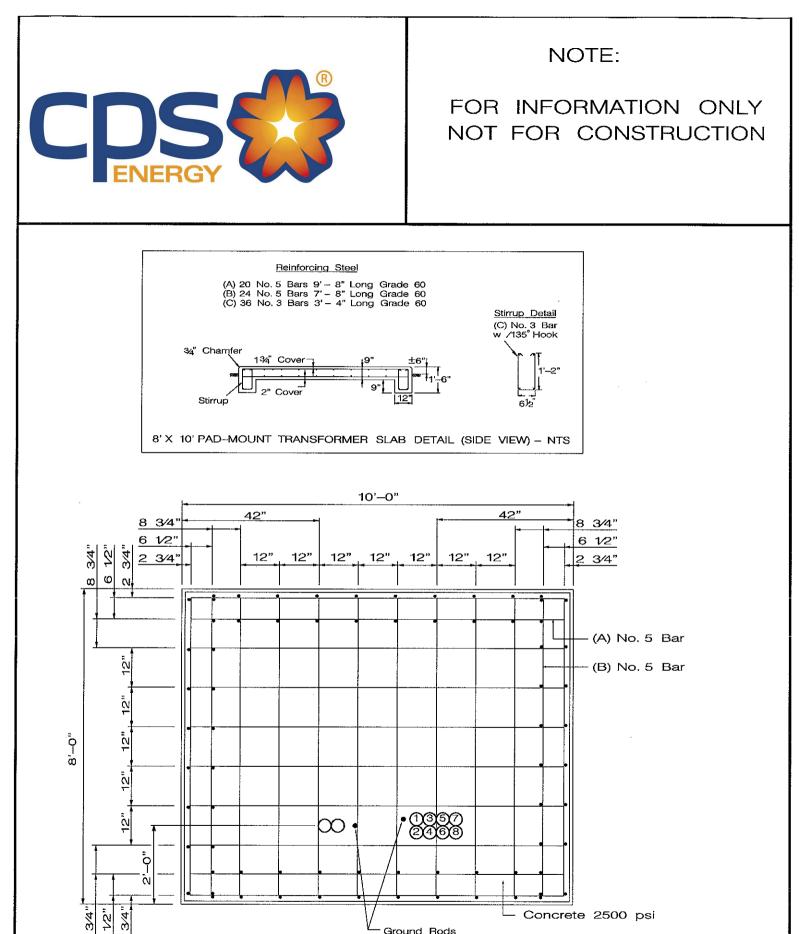
FOR INFORMATION ONLY NOT FOR CONSTRUCTION



Asphalt & Backfill * (If/As Required By Applicable Public Works Specifications)

Schedule 40 PVC conduits with spacers every four feet to be encased in 2000 PSI pea gravel concrete.

2-4" DUCTLINE DETAIL



THERE SHALL BE NO PIPES, CONDUIT, ETC. UNDER THE SLAB EXCEPT THOSE NECESSARY TO SUPPLY PRIMARY TO THE TRANSFORMER AND THOSE TO SUPPLY THE ELECTRIC LOAD

Ground Rods

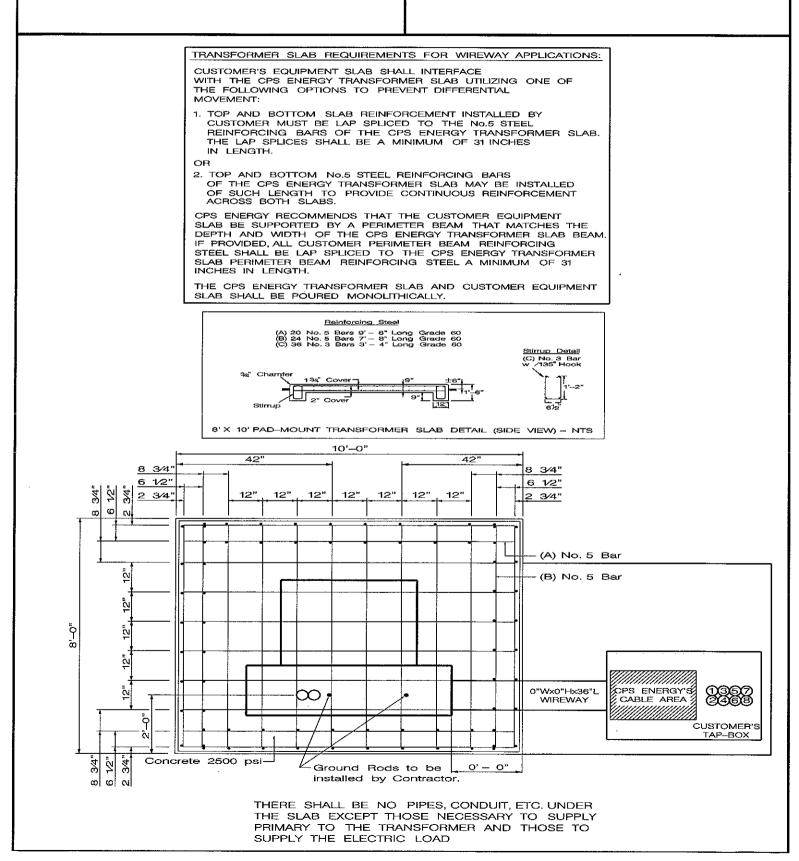
(To be installed by Contractor)

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NOTE:

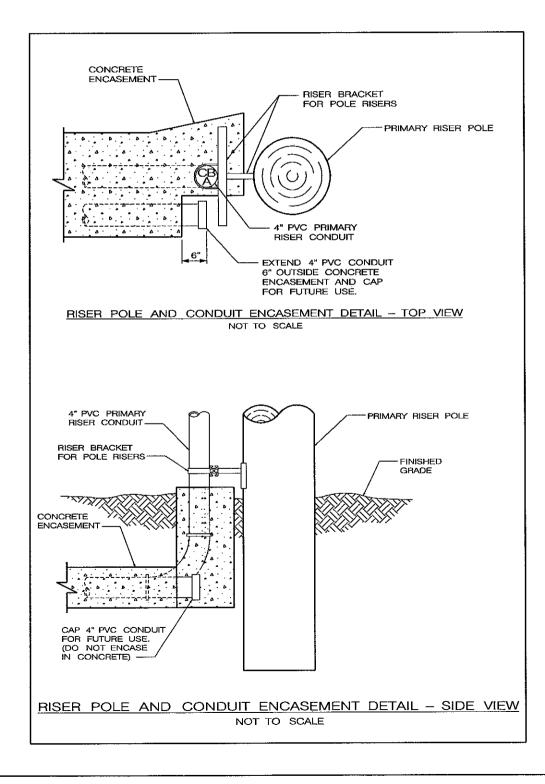
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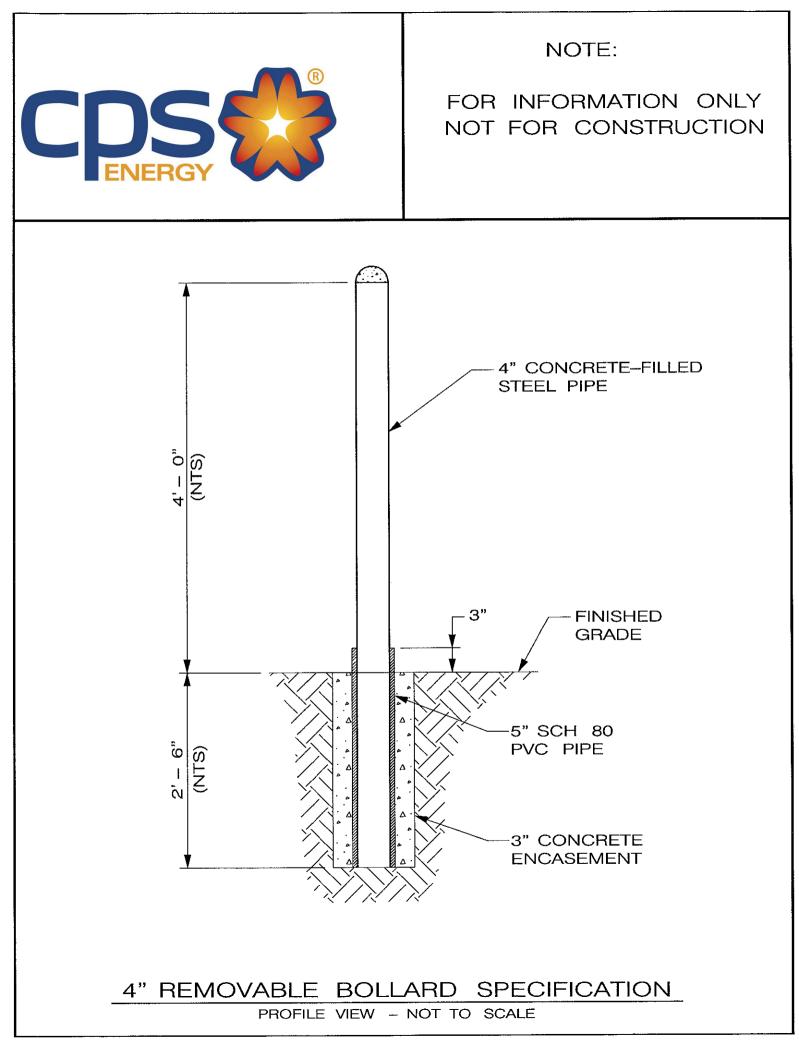




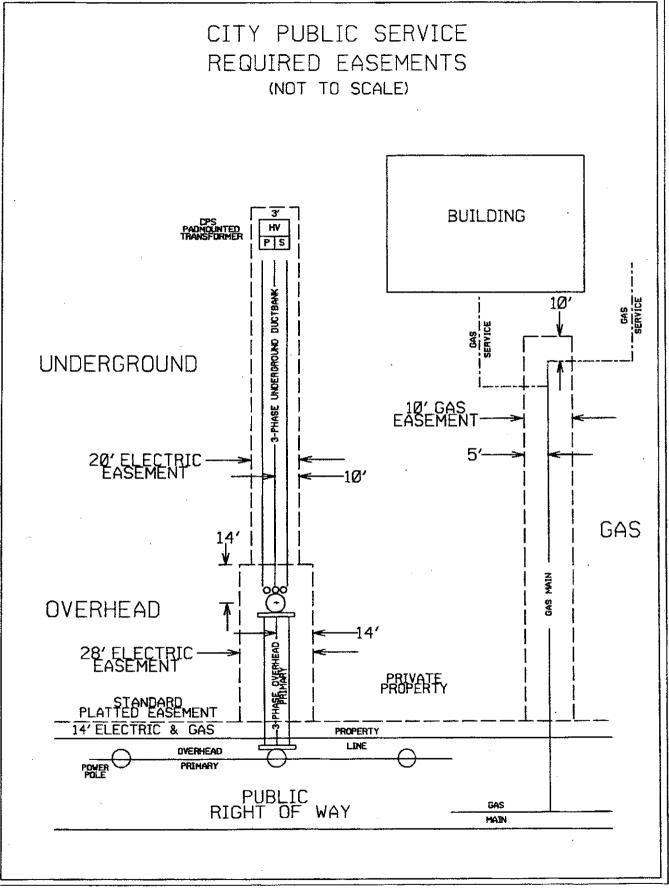
NOTE:

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