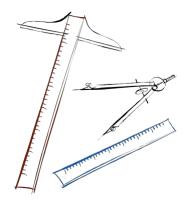


Large Commercial Services & Developments Electric and Gas Service Package











Á Á

Contents:Á

- ≻ÁThe 15-Week Large Commercial Electric Service Process Á
 - >ÁDocuments Required for Electrical ServiceÁ
 - ►ÁLarge Commercial Electric and Gas Service Application Á
 - ►ÁElectric and Gas Equipment and Load TemplatesÁ
 - >ÁSpecification Drawings for:Á
 - •Á Utility Site Requirements (Example)Á
 - •Á 3-Phase Ductbank (Riser To Pad)Á
 - •Á 3-Phase Transformer PadÁ
 - •Á 3-Phase Transformer Pad W\Tap BoxÁ
 - •Á 3-Phase Riser Pole And Conduit EncasementÁ
 - •Á 4 Ft Removable Bollard
 - •Á Easement Requirements
 - •Á Temporary Meter Loop (Example)

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The 15-Week Large Commercial Electric Service Process

(For All Pad-Mounted Transformer Services)Á

Customer's StepsÁ V[Á*^cÁ[ˇ¦Á^¦ç&^ÁşÁ@Á; ∄ã; ˇ{Áã; ^Ếj, ^æ•^Á \^^]Á:@•^Á;৫]•Á;}Á&@åˇ ^ÈÅ	Step	Typical Elapsed Time ^[c] Á	CPS Energy (CPSE) StepsÁ
Deliver essential documents to CPS Energy ^[b] •ÁCḤ] 認經續 } Á •ÁU^æ\^âÁ 쥷'Å æ) Æ ¦æ) Æ ¦æ, 尋 * • É \^æ\^åÁ [æå• É æ) åÁ ^æ\^åÁ [} ^Áa] ^Á	A	Ô [&\ÁaA,[o •œd-c^åA	•ÁÔ[^&ó\$j,-{¦{ææāj}}Á+[{Ásč••({^\HŽ
Attend a pre-design meeting ^[b] Á	В	Ô [&\Á€Á;[o •cædc^åÁ	•ÁÒ}*ā,^^¦Ásã&`••^•Á,^^å•Á, ão@Ás`•([{ ^¦Á æ)åÁ^çã Ás¦æ, ā,*•ÈÁ
Ø[¦Á) ^ ¸Á&[} • d * &æ[} ÉÁ] ^æ ^ Áçæ ¸Ác@ ÁÔÚÙÒÁY ^àÁ Ú[¦æÞÁ ḍ Á { [} ã[¦Á c@ Á] ¦ [b * &cÁ • &@ å * ^Á æ) åÁ c@ Á dæ) • æ\$æ[} • Áè^c , ^^} ÁÔÚÙÒÆæ) åÆ [* ÉÁÇV@ ÁÚ[¦ææÞÆæ Á } [oÁæçæææææ)^Á[¦Å^{ [å^ ā] * Æþ à• ĚDÁ	0	Ô [& Á Ùæe Á	•ÁÚ¦^Ëà^•君}槓, ^^Gà*Á@æÁà^^}Æ[{] ^♂åĔĀ •ÁŒÆ[{] ^♂卷;•₵{ ^ Áæ& æ^^ÆæeÆi^^} •Áæā;^åkÆ[]] ææā}}Ē^^æ†åÁærÁiæ;ā³*•Ё •^æţ^åk[8d;āk][]ææē]}ĒA^æţ^åÁ;}^Ёā
Host a site visit ^[b] Á	1	Y ^^\ Á ÀFÁ	•ÁÒçaqĕaec^Ánãc^Ápaê [*dÉk cajāc Á&[[¦åā]æanā]}£Á & *•d[{^!Á&[]}•d*&anā]}Á&[[¦åā]æanā]}ÉA &[]•d*&anā]}Áaa&&∧••£Á
Receive and comply with CPSE construction drawings ^[b] Å	2	Y ^^\ Á ÀŒÍÁ	•ÁÖ^•∄}Á¦^&dæÁ^^¦çæX\Á&[¦åāæ^Á¸ão@Á@/ ^ ^&dæÁ*•c{Ágāā&ão&æjæ&ã£É*•^•ŒÁ •ÁÔ¦^æ^ÁæÁ§•oÁ•cā;ævÁæjåÁsā Áo@Á &*•q{^¦Ä
Expedite payment to CPSE ﷺ Expedite payment to CPSE [b][d]	3	Y ^^\ Á ÀÎ Ē Á	•ÁÜ^&^ãç^Á&`•d[{^¦Ájæê{^}dĚ
Form up ductbanks and pads and schedule CPSEÁ inspection.Á •ÁÔạḥÁ-Í H-Ï-H-Ï-H-Ï-ĀŒG Ē@-Á,[ゐ&-Ás-Á^ ã-åÁ Pour concrete and schedule CPSE inspection.Á •ÁV-②s-Á; 君 ②\$\fa-\fa-\fa-\fa-\fa-\fa-\fa-\fa-\fa-\fa-	4	Y ^^\ Á ÀÌ Á	 ÁÚ!^]Áṭ!ÁÔÚÙÒÆ[}•d*&ã[}Á ÁÔ@&\Á;æc!äæþÉA ÁÜ^&^ãŗ^Ásā Á;^!{ão EÁ ÁÜ&@å*[^Ásä², •EÁ ÁŬ&@å*[^Ásä², •EÁ ÁQ.•]^&oæÁ[!{•Á[!ásà•Ása]åÁs*&càæ]\ÉÁ ÁQ.•]^&oæá[}&i^cvÉA
CPSE crews will leave the site if the following conditions are not satisfactory.Á •ÁT 舜 舜舜 允逊 ^•Á豉 å﴿ఫā ʔ ʔ ʔ ʔ ʔ ﴿ * * * * * * * * * * * * * *	5	Y^^\Á ÀJËHÁ	•ÁÔ[}•dˇ&AÔÚÙÒÁÆ&∄ããð•ĒÁ •ÁQ•Œ⊭Áæ)•{¦{^¦ĒÁ
	6	Y ^^\ Á ÀFI ËFÍ Á	•ÁÙ^ơÁ; ^ơ^¦ÉÁA) ã ũã Đượ°Á* ^& d 38 AÁ^\¦çã BA^ÉÁ

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Documents Required for CPS Energy Pad-Mounted Transformer Service

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Á
          ***Documents must be SEALED ENGINEERED DRAWINGS***A
Á
Utility Site Plan - Hard Copy/PDF and in AutoCAD 2000 formatÁ
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      •Á Üã ^¦ÁÚ[ |^ÁŠ[ &æa] }ÁQ |ā ^Áã ^¦•Áĉ] ã&æ||^Á, [ oÁæ|| _ ^åDÁ
      •Á Ö^•ã^åÁÜ[ˇc^Á; -ÁN}å^!*¦[ˇ}åÁÚ¦ã æl^Áåˇ&càæ;\ÁBÁ;æ;@[/•Á
      •Á Ö^cæaā/^åÁclæð;•4 ¦{ ^¦Án[&ææaī]}Á
          oÁÙ@, ÁÚ^¦ã ^ơ\¦ÁÔ|^æbæ)&^Á
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Electrical One-line Diagram - Hard Copy/PDF and in AutoCAD 2000 formatÁ
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          oÁÙã^ÉÁPˇ{à^¦Á,^¦Á, @œe^ÉÁV[œelÁPˇ{à^¦Á,~ÁÙ^&[}åæel^ÁÔæàe|^•ÉÁV^]^ÁQÔ Á;¦ÁQŒDÉÁ
             Þ^ˇdælÁÛã^Á
     Ù^&{|} åæ$^Á^¢ããā; *Ádæ;•-{|{ ^\A`à^KA.
          oÁÔ[}åˇãÁQ;ˇ{à^¦ÁBÁnã^DÉÁ, ˇ{à^¦Án,Án]æb^∙Á
          oÁ Yã^ æÂÛã^Á
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         ç[|cæ*^Aå;|] Á&æ;&*|ææã|}•Á;[{ Ád;æ}•-{;{ ^;Áq;Á; ^c^;Á; [å*|^•DÁ
Electrical Load Summary - Hard Copy/PDF and in AutoCAD 2000 formatA
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      •Á P[ˇ¦•Ásc) åÁsacê•Á, -Á,]^¦æcá[}Á
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      •Á Ô[}}^&c^åÁŠ[æåÁ§[ÁXOÞÁČÜ^~^¦^}&^ÁŠ[æåÁQ-1;{ ææã[}ÁÙ@^^óÁ;¦ÁÓ;^æáÁÖ[...}DÁ
          \circÁ Ò¢ã cã * ÁŠI æå ÁšÁsel] | 88æà | ^ ÉÓŒÔÁBÁP ^ æÉŠŠã @ã * ÉÁT [ of ¦ ÁŠ[ æå ÉÄÜ ^ & ^] ææl ^{\bullet}ÉÁ
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          oÁW} ˇ• ˇæþÁy æå•Á^ ˇ ã^Áåã& & ˇ••ãi}Á
Electrical Load Panels - Hard Copy/PDF and in AutoCAD 2000 formatÁ
          ***Documents must be SEALED ENGINEERED DRAWINGS***Á
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"Please e-mail completed Application form to ce@cpsenergy.com or call (210) 353-4050 for mailing instructions."

Ú¦ãioÁÞæ{^

Commercial Electric/Gas Service Application

	E⁄REQUIRED T	O INITIATE WORK	REQUESTA	
* Date	* Project Name:Á			
	* Project Address:Á			
* Electrical C	ContractorÁ		* Phone #Á	
* EmailÁ				
* Developer	Contact		* Phone #Á	
* EmailÁ				
* GeneralÁ	Contractor ContactÁ		* Phone #Á	
* EmailÁ				
* EngineerÁ	ContactÁ		* Phone #	
* E-mailÁ				
BusinessÁ Type	Ô[{ { ÁU~38% Á Qå*• Ø^] æd (^} cÁÙ (; \^ÁÁ Q\$	ãaz‡Á	Ü^æa¶ÁÔ^} &\ÁÁ Ü^a∄^{ ^} &Ô^} &\ÁÁ Ù&@[ÁÁ Y æb^@~•^ÁÁ Uc@¦Á (Specify Type)Á	
ServiceÁ Type	W,å^¦*¦[ˇ}åÁÛ^¦çã&^Á ☐ T H]@ÁÚæåÁT[ˇ}ơÁÙ^¦çã&^Á ☐ Ü,	æ•Á ^ơ\¦ÁU} ^。 ^{ [å^ ÐW]*¦æå^Á Remodel/Upgrade Meter N	* Service Required Date/ * Building Square Foot	
CustomerÁ InformationÁ	<mark>EÁ</mark> Ô`•q[{ ^\A, AÜ^&[\åÁ EÁOā]ā]*ÁOāaå\^••Á	ED TO INITIATE WO	DRK REQUESTÁ U]^} \(\hat{D} \text{constant} \) E\(\hat{A} \text{CERF} \text{A} \) E\(\hat{A} \text{CERF} \text{A} \)	ÞĮÁ
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UPÁ	Á	Uc@¦Á		
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Ö^ç	;^ []^ =DÜ^]¦^•^}cæeãç^ÁÛā*}æeč¦^ Á		ÔÚÙÁÒ}^¦*^ÁÜ^]¦^•^} ææãç^ÁÙã*	- æč¦∧Á



TOTALÁ

LOAD INFORMATION

LOAD INFORMATION MUST BE SIGNED/SEALED BY A PROFESSIONAL ENGINEER

Ú[¸^¦ÁÜ^˘˘	ã^{ ^} œ kÁ		
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Á	ÁGÏÏÐDÌ€ŸÁHĒÚ@æ•^Á	ÁJc@o¦kÁÁÁ	Á
	ELECTRICAL EQUIPMENT		\ XŒÁ
	OHÔÁ	Á	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	ŠÕPVOPÕÁ	Á	
	ÜÒÔÒÚVŒÔŠÒÙÁ	Á	
	PÒŒ/ŒÕÁ	Á	
	Y OS/ÖÜÁP ÖOS/ÖÜÁ	Á	
	ÔUT ÚWVOÜÙÁ	Á	
	ÜÒØÜÕÕÜŒVQJÞÁ	Á	
	ÒŠÒXŒ/UÜÙÁ	Á	
	T UVUÜÙÁ	Á	
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	VU VŒŠÁ	Á	
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<u>.</u>	GAS EQUIPMENTÁ		
	Pressure Required	Á	BTUÁ
	ØWÜÞŒÔÒÁ	Á	
	ÓU (Š) ÒÜÁ	Á	
	ÔUUS œ ÕÁ	Á	
	Y ŒVÒÜÁPÒŒVÒÜÁ	Á	
	ÚU U ŠaÙÚŒÁP ÒŒVÒÜÁ	Á	
	ŐŒJÆŠÕĮPVOÞŐÁ	Á	
	UVPÒÜÁÒÛWÓJT ÒÞVÁ	Á	
	Á	Á	
	Á	Á	



CUSTOMER ENVIRONMENTAL REQUIREMENTS CHECKLIST

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.

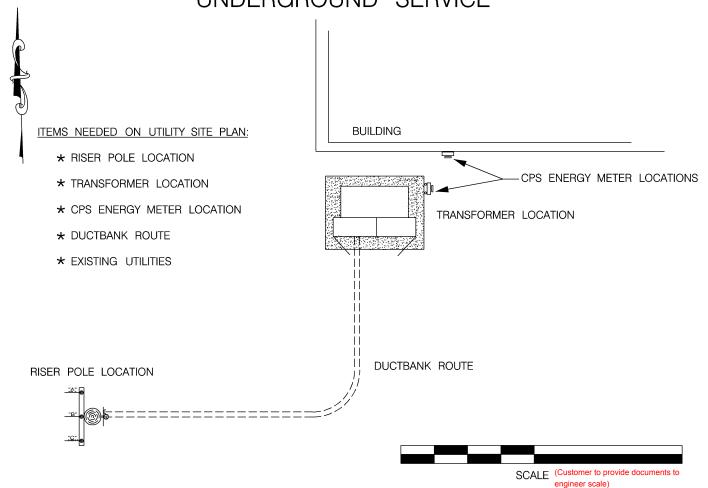
		Copy of form	Copy of form to be		CPS offsite
Environmental Category	Environmental Form	provided with	provided <u>after</u>	Form Not Applicable	work covered? Y/N/TBD
		Application	Application	Applicable	1/11/150
Storm Water Pollution Prevention	Storm Water Pollution Prevention Plan				
Endangered Species 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:					

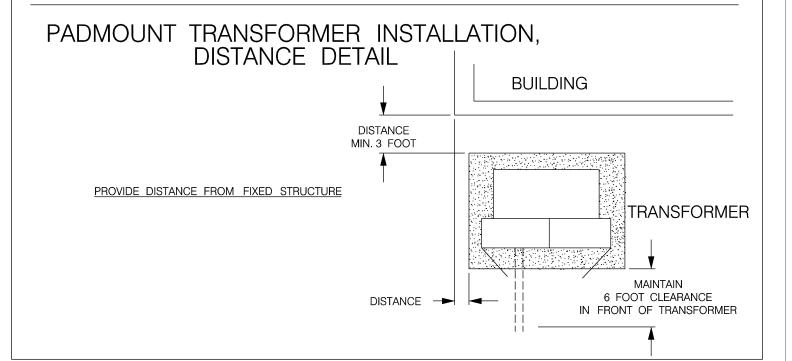


CPS ENERGY

NOTE: FOR INFORMATION ONLY NOT FOR CONSTRUCTION

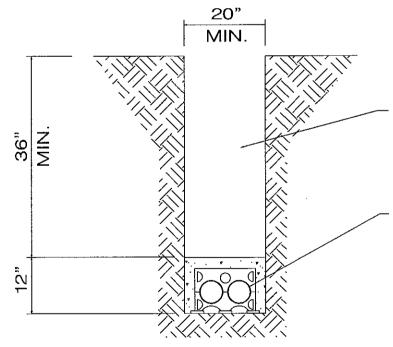
PADMOUNT TRANSFORMER INSTALLATION, UNDERGROUND SERVICE







FOR INFORMATION ONLY NOT FOR CONSTRUCTION



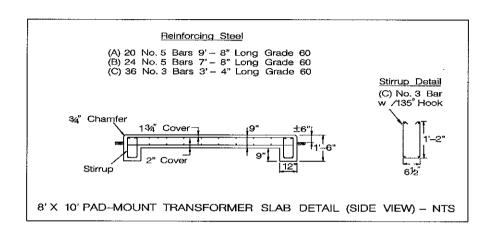
Asphalt & Backfill *
(If/As Required By Applicable Public Works Specifications)

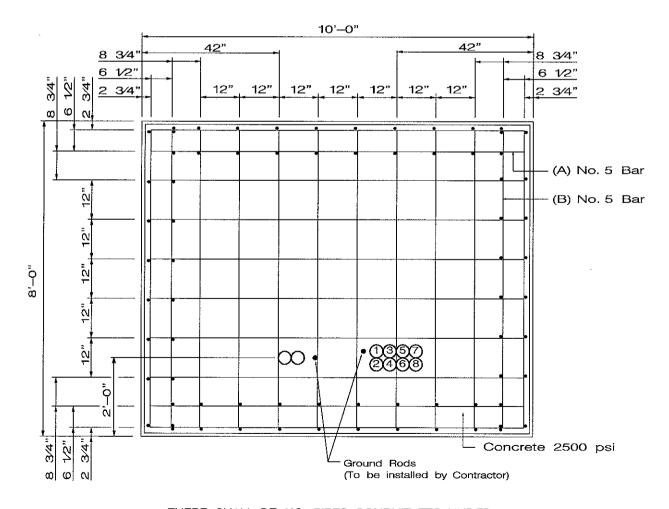
Schedule 40 PVC conduits with spacers every four feet to be encased in 2000 PSI pea gravel concrete.

2-4" DUCTLINE DETAIL



FOR INFORMATION ONLY NOT FOR CONSTRUCTION





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



FOR INFORMATION ONLY NOT FOR CONSTRUCTION

TRANSFORMER SLAB REQUIREMENTS FOR WIREWAY APPLICATIONS:

CUSTOMER'S EQUIPMENT SLAB SHALL INTERFACE WITH THE CPS ENERGY TRANSFORMER SLAB UTILIZING ONE OF THE FOLLOWING OPTIONS TO PREVENT DIFFERENTIAL MOVEMENT:

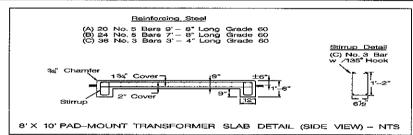
1. TOP AND BOTTOM SLAB REINFORCEMENT INSTALLED BY CUSTOMER MUST BE LAP SPLICED TO THE No.5 STEEL. REINFORCING BARS OF THE CPS ENERGY TRANSFORMER SLAB. THE LAP SPLICES SHALL BE A MINIMUM OF 31 INCHES IN LENGTH.

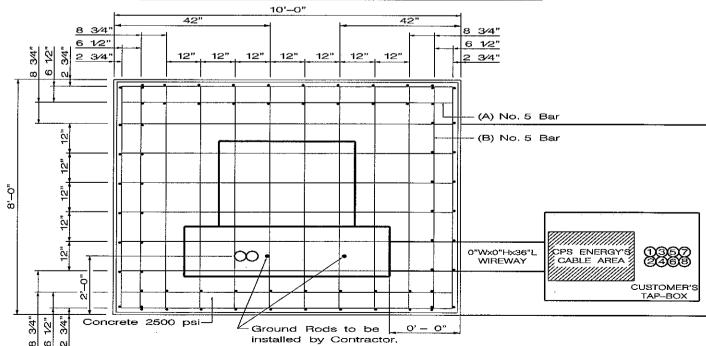
OB

TOP AND BOTTOM No.5 STEEL REINFORCING BARS
OF THE CPS ENERGY TRANSFORMER SLAB MAY BE INSTALLED
OF SUCH LENGTH TO PROVIDE CONTINUOUS REINFORCEMENT
ACROSS BOTH SLABS.

CPS ENERGY RECOMMENDS THAT THE CUSTOMER EQUIPMENT SLAB BE SUPPORTED BY A PERIMETER BEAM THAT MATCHES THE DEPTH AND WIDTH OF THE CPS ENERGY TRANSFORMER SLAB BEAM. IF PROVIDED, ALL CUSTOMER PERIMETER BEAM REINFORCING STEEL SHALL BE LAP SPLICED TO THE CPS ENERGY TRANSFORMER SLAB PERIMETER BEAM REINFORCING STEEL A MINIMUM OF 31 INCHES IN LENGTH.

THE CPS ENERGY TRANSFORMER SLAB AND CUSTOMER EQUIPMENT SLAB SHALL BE POURED MONOLITHICALLY.

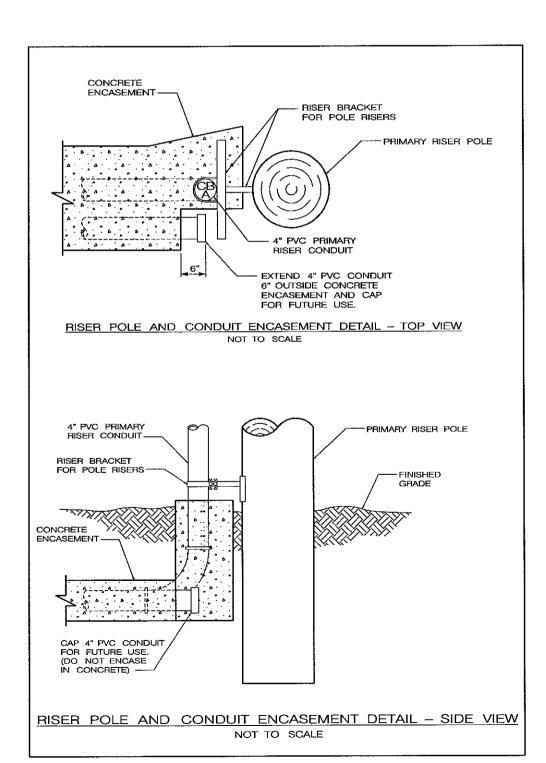




THERE SHALL BE NO PIPES, CONDUIT, ETC. UNDER THE SLAB EXCEPT THOSE NECESSARY TO SUPPLY PRIMARY TO THE TRANSFORMER AND THOSE TO SUPPLY THE ELECTRIC LOAD

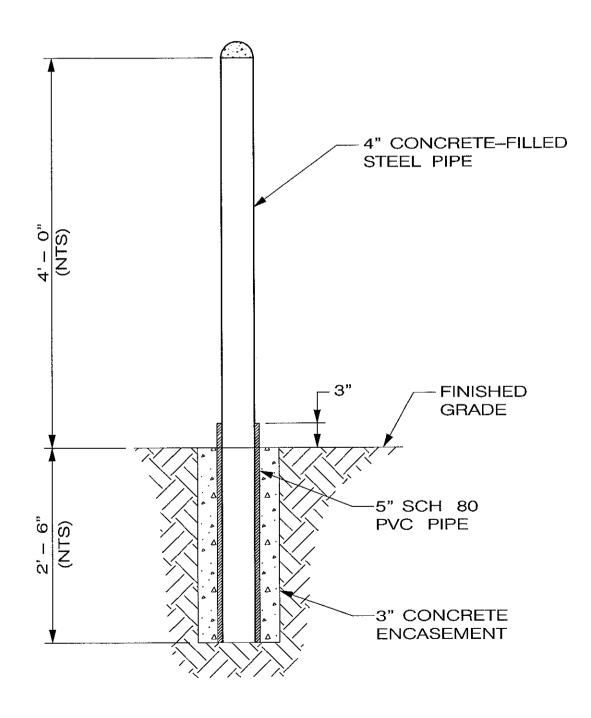


FOR INFORMATION ONLY NOT FOR CONSTRUCTION





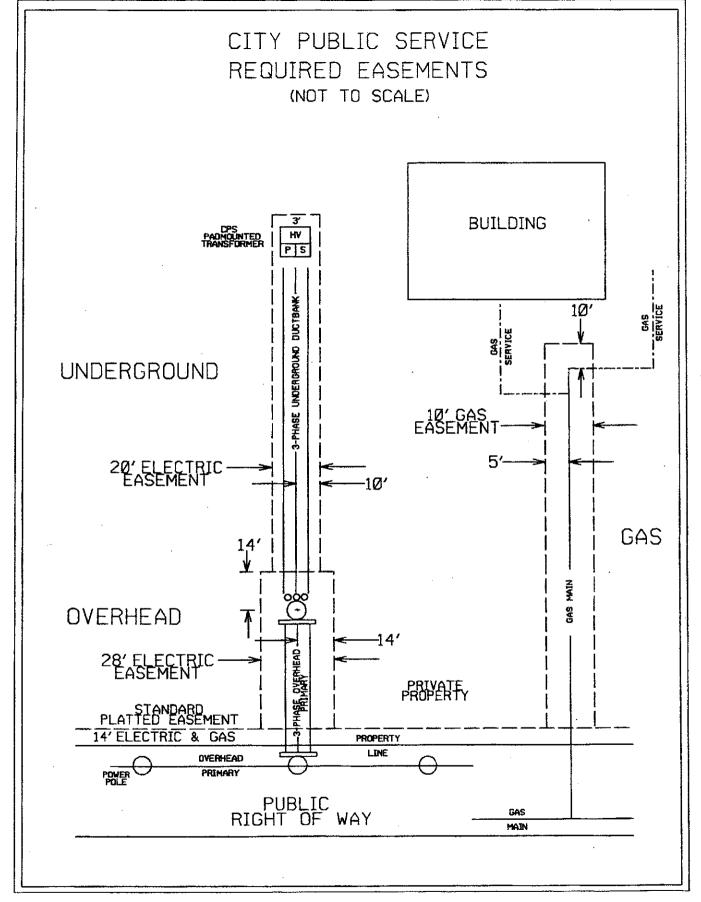
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4" REMOVABLE BOLLARD SPECIFICATION

PROFILE VIEW - NOT TO SCALE





Electric Job Package

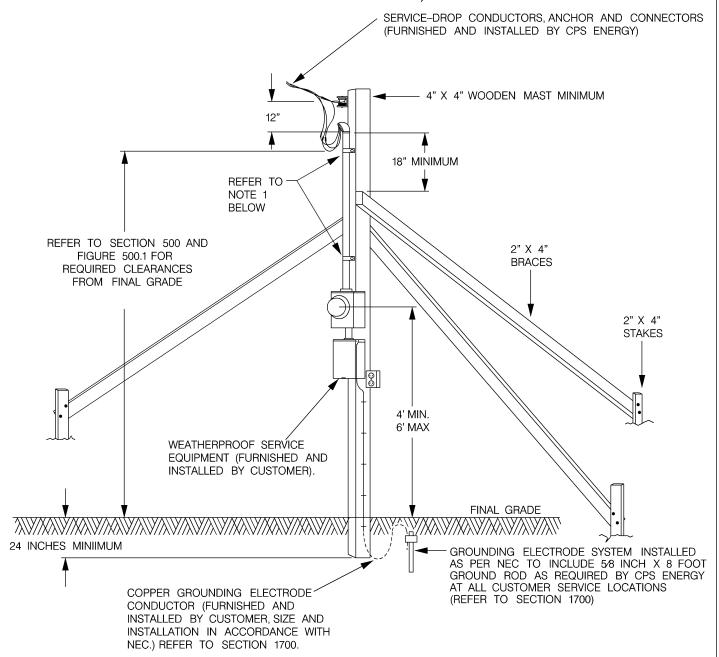
20



CPS ENERGY

NOTE: FOR INFORMATION ONLY NOT FOR CONSTRUCTION

TEMPORARY METER INSTALLATION, OVERHEAD SERVICE



NOTES: (SEE CPS ENERGY ELECTRIC SERVICE STANDARDS BOOK)

- 1. SERVICE RACEWAY SHALL BE SUPPORTED WITH 2- HOLE STRAPS ATTACHED WITH SCREWS AND INSTALLED WITHIN 6 12 INCHES OF SERVICE HEAD AND OF METER ENCLOSURE.
- 2. 125- AMPERE METER SOCKET WITH 1 1/4 INCH HUB FURNISHED, INSTALLED AND WIRED BY CUSTOMER. REFER TO FIGURE 1800.1.
- 3. SERVICE OUTLET SHALL BE FURNISHED AND INSTALLED BY CUSTOMER. RACEWAY SHALL BE EMT, RMC OR IMC. MINIMUM SIZE OF SERVICE RACEWAY IS 1 1/4 INCH.
- 4. CUSTOMER SHALL CONSTRUCT THE TEMPORARY SERVICE INSTALLATION AS SHOWN ABOVE AND MAINTAIN IT IN A SAFE CONDITION THROUGHOUT ITS PERIOD OF USE. CPS ENERGY RESERVES THE RIGHT TO DISCONNECT DAMAGED OR UNSAFE TML'S.
- 5. THE TEMPORARY SERVICE INSTALLATION MUST BE IDENTIFIED WITH A PROPER SERVICE ADDRESS BEFORE CPS WILL CONNECT AND INSTALL A METER.

