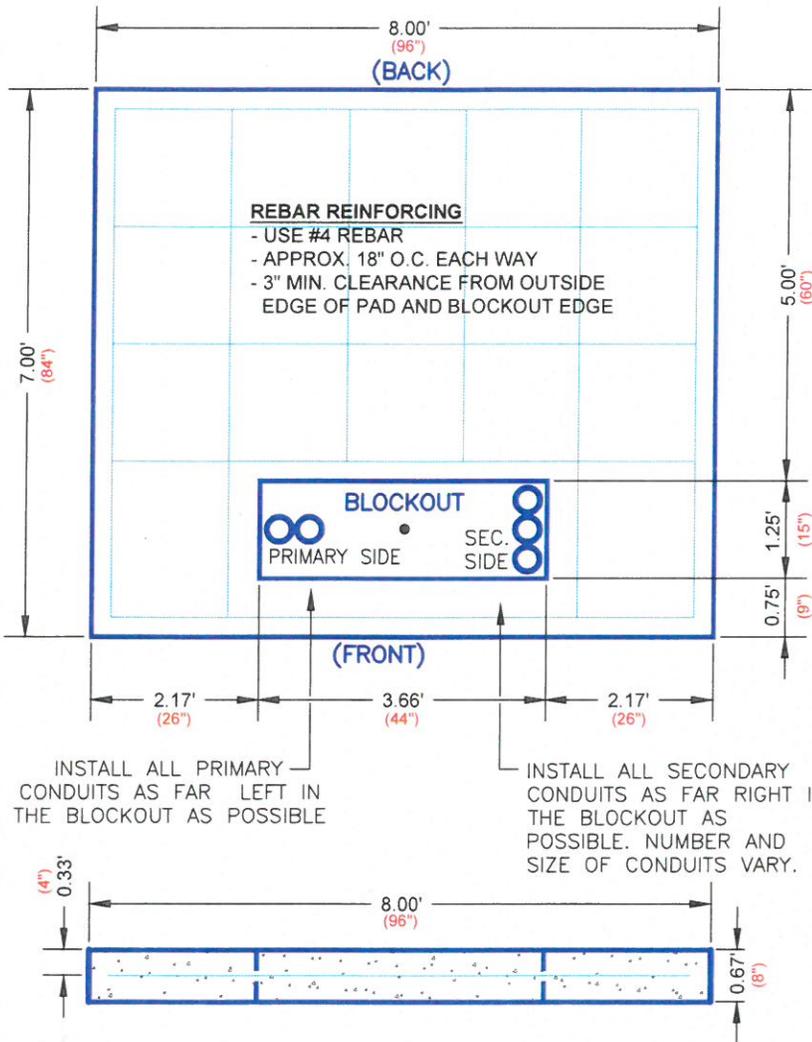


# 3 PHASE TRANSFORMER PAD



CT METERING SHALL NOT BE ALLOWED IN THE TRANSFORMER.

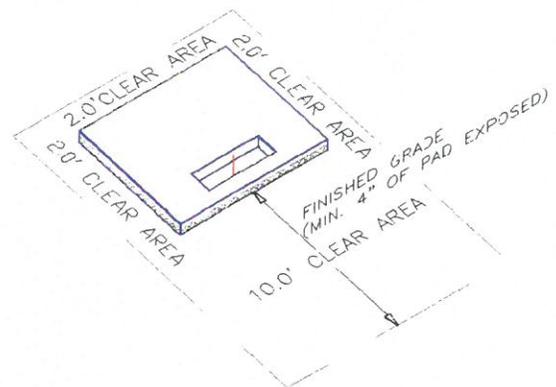
- GROUND ROD TO BE INSTALLED IN THE CENTER OF BLOCKOUT.(PROVIDED BY IDAHO FALLS POWER INSTALLED BY CONTRACTOR).

SECONDARY COMPARTMENT SIZE VARIES WITH TRANSFORMER SIZE AND MANUFACTURER – CONTACT LINE SUPERINTENDENT FOR SPECIFICS.

INSTALL ALL PRIMARY CONDUITS AS FAR LEFT IN THE BLOCKOUT AS POSSIBLE

INSTALL ALL SECONDARY CONDUITS AS FAR RIGHT IN THE BLOCKOUT AS POSSIBLE. NUMBER AND SIZE OF CONDUITS VARY.

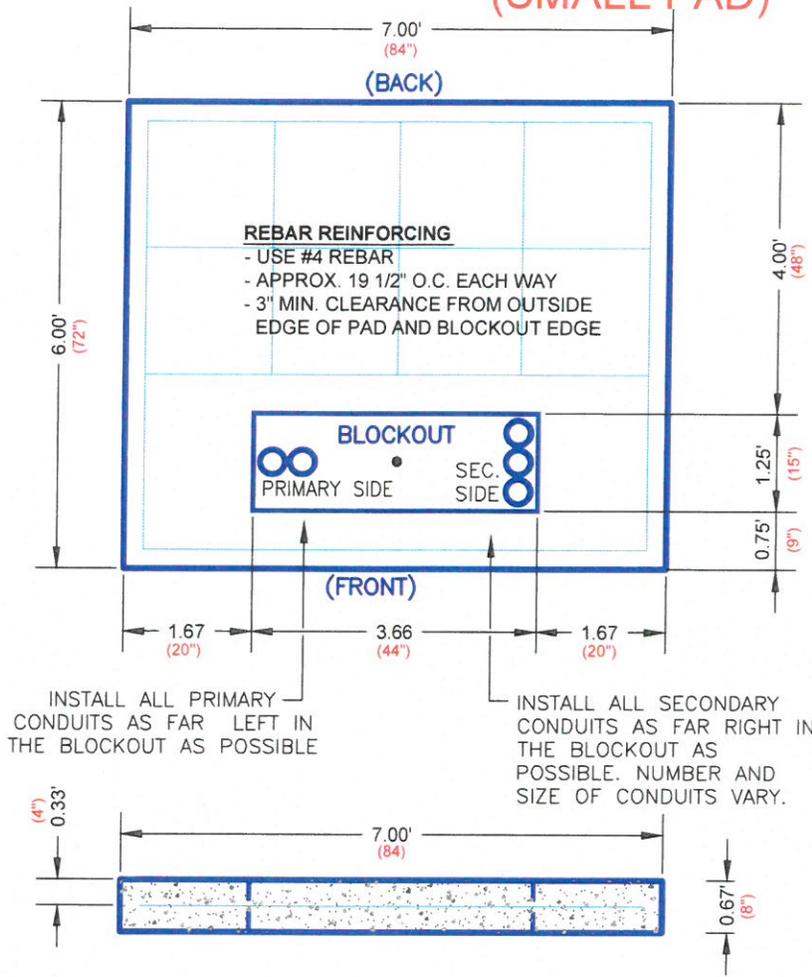
ADDITIONAL COMMENTS: INSTALL CONDUITS TO WITHIN ± 2" OF TOP OF PAD. INSTALL BELL ENDS AND CAP ALL CONDUITS. TRANSFORMER PAD SHALL HAVE A MINIMUM THICKNESS OF 8" OF CONCRETE AND SHALL BE DESIGNED WITH REINFORCING AS SHOWN. THE PAD LOCATION SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY PRIOR TO PLACEMENT OF CONCRETE. THE TRANSFORMER WILL NOT BE INSTALLED UNTIL THE CONCRETE HAS CURED A MINIMUM OF (7) DAYS. IF THE TEMPERATURE IS EXPECTED TO DROP BELOW 40°, THERMAL BLANKETS MUST BE USED FOR A MINIMUM PERIOD OF 72 HOURS. DO NOT PLACE PAD ON THE FROZEN EARTH. TOP OF THE TRANSFORMER PAD SHALL BE CONSTRUCTED TO A MINIMUM OF 4" ABOVE FINISHED GRADE. POSITIVE DRAINAGE MUST BE PROVIDED AWAY FROM THE TRANSFORMER PAD. CONTACT IFP FOR INSPECTION PRIOR TO PLACEMENT OF CONCRETE.



## 3 PHASE TRANSFORMER PAD DETAIL

SERVICE POLICY ATTACHMENTS				
IDAHO FALLS POWER				
CITY OF IDAHO FALLS, IDAHO				
Scale: N.T.S.	Revision Date: 07/15/2014	Drawn By: JM	Designed By: JM	
CadFile: K:\Specifications\Service Policy\3 PHS XFMR PAD DETAIL.dwg				Attachment # 1
 <b>Idaho Falls Power</b> A community with its own kind of energy			140 South Capital Ave. PO Box 50220 Idaho Falls, ID 83405-0220 Telephone: 208-612-8430	

# 3 PHASE TRANSFORMER PAD (SMALL PAD)



CT METERING SHALL NOT BE ALLOWED IN THE TRANSFORMER

- GROUND ROD TO BE INSTALLED IN THE CENTER OF BLOCKOUT. (PROVIDED BY IDAHO FALLS POWER INSTALLED BY CONTRACTOR).

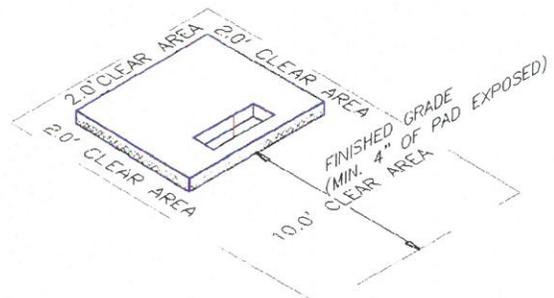
SECONDARY COMPARTMENT SIZE VARIES WITH TRANSFORMER SIZE AND MANUFACTURER – CONTACT LINE SUPERINTENDENT FOR SPECIFICS.

**FOR USE ONLY WHEN DIRECTED BY IDAHO FALLS POWER**

INSTALL ALL PRIMARY CONDUITS AS FAR LEFT IN THE BLOCKOUT AS POSSIBLE

INSTALL ALL SECONDARY CONDUITS AS FAR RIGHT IN THE BLOCKOUT AS POSSIBLE. NUMBER AND SIZE OF CONDUITS VARY.

ADDITIONAL COMMENTS: INSTALL CONDUITS TO WITHIN  $\pm 2"$  OF TOP OF PAD. INSTALL BELL ENDS AND CAP ALL CONDUITS. TRANSFORMER PAD SHALL HAVE A MINIMUM THICKNESS OF 8" OF CONCRETE AND SHALL BE DESIGNED WITH REINFORCING AS SHOWN. THE PAD LOCATION SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY PRIOR TO PLACEMENT OF CONCRETE. THE TRANSFORMER WILL NOT BE INSTALLED UNTIL THE CONCRETE HAS CURED A MINIMUM OF (7) DAYS. IF THE TEMPERATURE IS EXPECTED TO DROP BELOW 40°, THERMAL BLANKETS MUST BE USED FOR A MINIMUM PERIOD OF 72 HOURS. DO NOT PLACE PAD ON THE FROZEN EARTH. TOP OF THE TRANSFORMER PAD SHALL BE CONSTRUCTED TO A MINIMUM OF 4" ABOVE FINISHED GRADE. POSITIVE DRAINAGE MUST BE PROVIDED AWAY FROM THE TRANSFORMER PAD. CONTACT IFP FOR INSPECTION PRIOR TO PLACEMENT OF CONCRETE.



## 3 PHASE TRANSFORMER PAD DETAIL

### SERVICE POLICY ATTACHMENTS IDAHO FALLS POWER CITY OF IDAHO FALLS, IDAHO

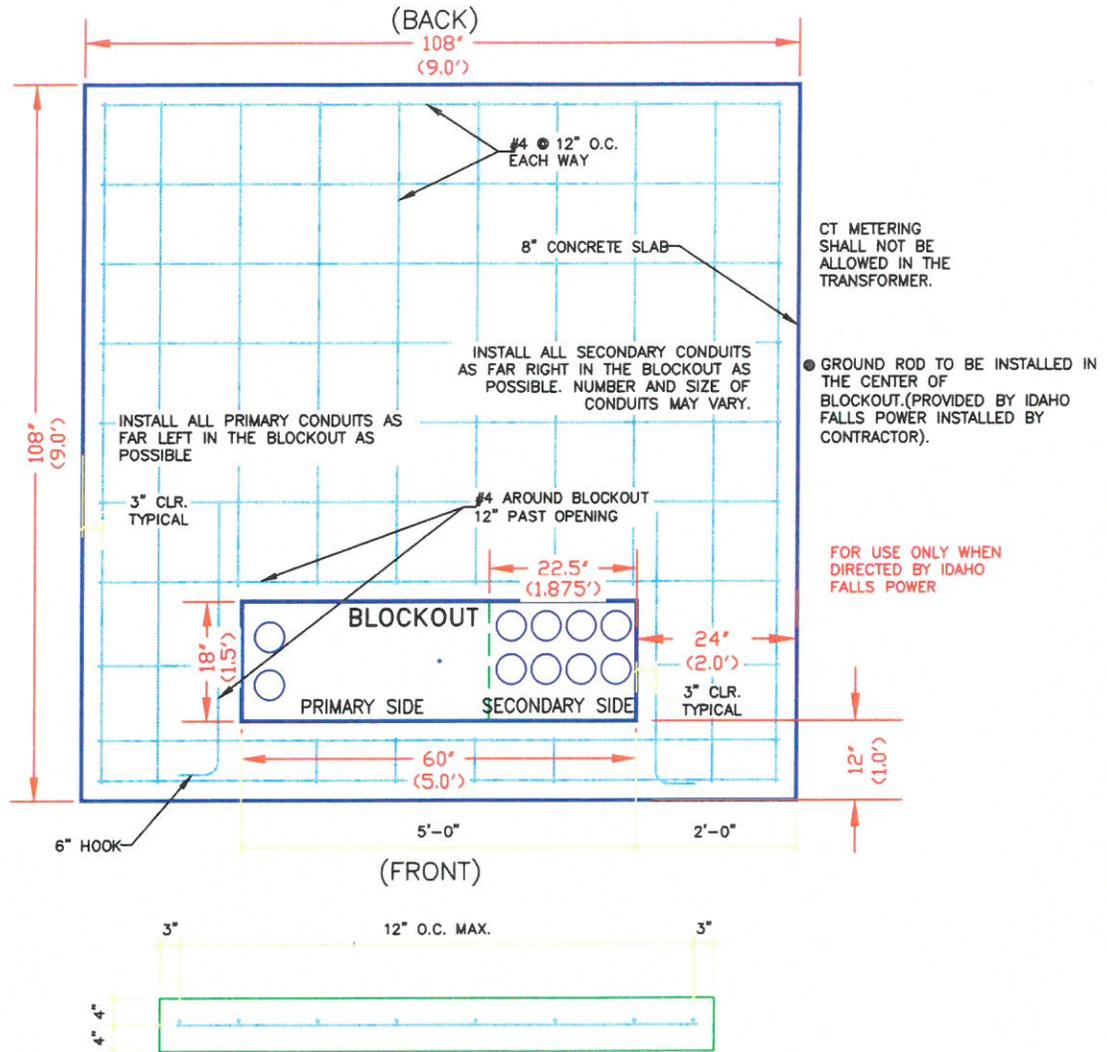
Scale: N.T.S.	Revision Date: 07/15/2014	Drawn By: JM	Designed By: JM
CadFile: K:\Specifications\Service Policy\3 PHS XFMR PAD SMALL.dwg		Attachment # 1A	



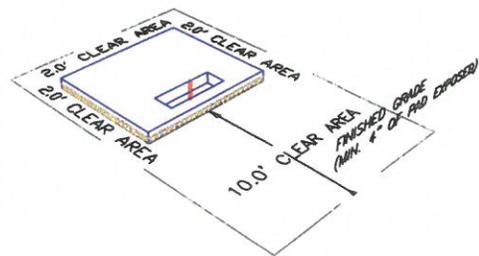
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A community with its own kind of energy

140 South Capital Ave.  
PO Box 50220  
Idaho Falls, ID 83405-0220  
Telephone: 208-612-8430

# 3 PHASE TRANSFORMER PAD DETAIL (2000 kVA)



ADDITIONAL COMMENTS: INSTALL CONDUITS TO WITHIN  $\pm 2"$  OF TOP OF PAD. TRANSFORMER PAD SHALL HAVE A MINIMUM THICKNESS OF 8" OF CONCRETE AND SHALL BE DESIGNED WITH SUFFICIENT REINFORCING TO ACCOMMODATE A TRANSFORMER WEIGHT OF 16,000 LBS. THE PAD LOCATION SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY PRIOR TO PLACEMENT OF CONCRETE. THE TRANSFORMER WILL NOT BE INSTALLED UNTIL THE CONCRETE HAS CURED A MINIMUM OF (7) DAYS. THE TOP OF THE TRANSFORMER PAD SHALL BE CONSTRUCTED TO A MINIMUM OF 4" ABOVE FINISHED GRADE. POSITIVE DRAINAGE MUST BE PROVIDED AWAY FROM THE TRANSFORMER PAD. ANY DEVIATION IN THE FINAL GRADE OR LOCATION OF THE TRANSFORMER PAD MUST BE APPROVED BY IDAHO FALLS POWER.

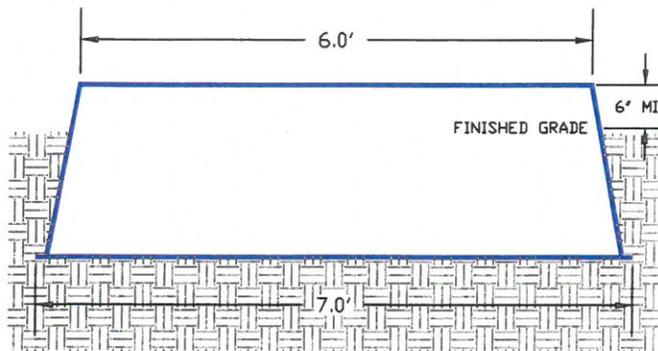


**3 PHASE TRANSFORMER PAD DETAIL (2000 kVA)**

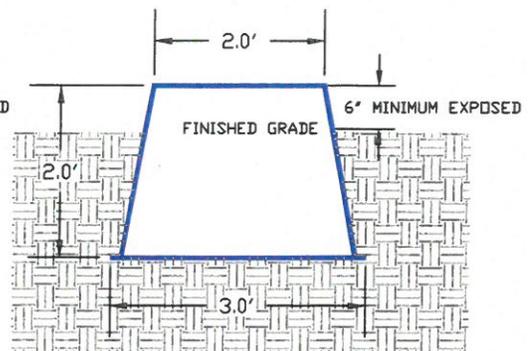
SERVICE POLICY ATTACHMENTS				
IDAHO FALLS POWER				
CITY OF IDAHO FALLS, IDAHO				
Scale: N.T.S.	Revision Date: 07/15/2014	Drawn By: JM	Designed By: JM	
CadFile: K:\Specifications\Service Policy\3 PHS XFMR PAD_200kVA.dwg				Attachment # 1B
			140 South Capital Ave. PO Box 50220 Idaho Falls, ID 83405-0220 Telephone: 208-612-8430	
A community with its own kind of energy				



# 3 PHASE SWITCH CABINET BASE (GROUND SLEEVE)

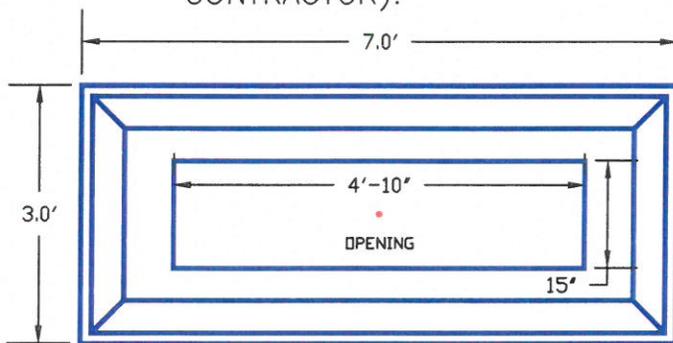
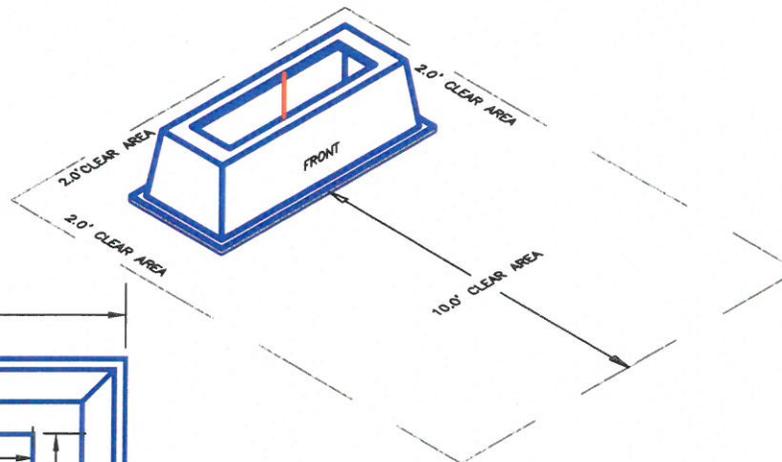


FRONT VIEW



END VIEW

GROUND ROD TO BE  
INSTALLED IN CENTER  
OF  
OPENING. (PROVIDED  
BY IDAHO FALLS  
POWER INSTALLED BY  
CONTRACTOR).



PLAN VIEW

3 PHASE SWITCH CABINET BASE (GROUND SLEEVE) SHALL BE PROVIDED BY IDAHO FALLS POWER BUT SHALL BE INSTALLED TO REQUIRED GRADE BY THE CONTRACTOR/DEVELOPER. THE PAD LOCATION SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY PRIOR TO PLACEMENT. THE TOP OF THE BASE SHALL BE INSTALLED A MINIMUM OF 6" ABOVE FINISHED GRADE. POSITIVE DRAINAGE MUST BE PROVIDED AWAY FROM THE CABINET BASE.

## 3 PHASE SWITCH CABINET BASE

### SERVICE POLICY ATTACHMENTS IDAHO FALLS POWER CITY OF IDAHO FALLS, IDAHO

Scale:	Revision Date:	Drawn By:	Designed By:
N.T.S.	07/15/2014	JM	JM

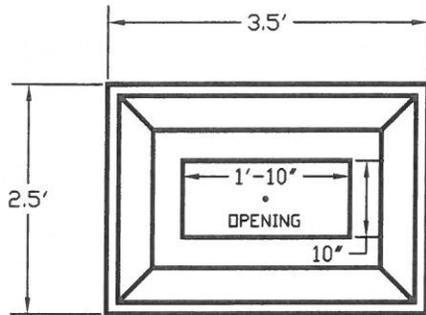
CadFile: K:\Specifications\Service Policy\3 PHS SWITCH CAB BASE.dwg Attachment # 3



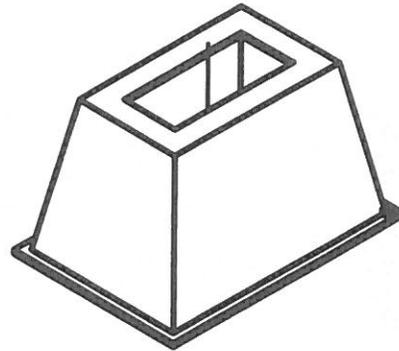
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PO Box 50220  
Idaho Falls, ID 83405-0220  
Telephone: 208-612-8430

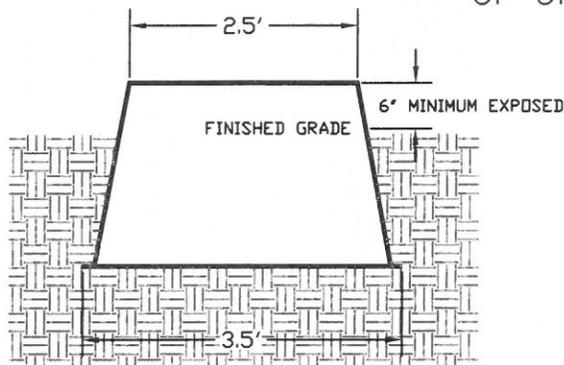
# SINGLE PHASE SWITCH CABINET BASE (GROUND SLEEVE)



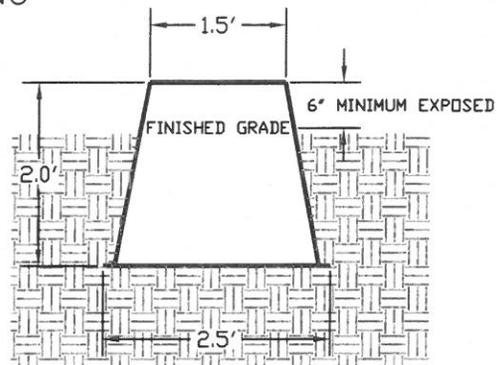
PLAN VIEW



- GROUND ROD TO BE INSTALLED IN CENTER OF OPENING



FRONT VIEW



END VIEW

SINGLE PHASE SWITCH CABINET BASE (GROUND SLEEVE) SHALL BE PROVIDED BY IDAHO FALLS POWER BUT SHALL BE INSTALLED TO REQUIRED GRADE BY THE CONTRACTOR/DEVELOPER. THE PAD LOCATION SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY PRIOR TO PLACEMENT. THE TOP OF THE BASE SHALL BE INSTALLED A MINIMUM OF 6" ABOVE FINISHED GRADE. POSITIVE DRAINAGE MUST BE PROVIDED AWAY FROM THE CABINET BASE. ANY DEVIATION IN THE FINAL GRADE OR LOCATION OF THE CABINET BASE MUST BE APPROVED BY IDAHO FALLS POWER.

## SINGLE PHASE SWITCH CABINET BASE

### SERVICE POLICY ATTACHMENTS

IDAHO FALLS POWER  
CITY OF IDAHO FALLS, IDAHO

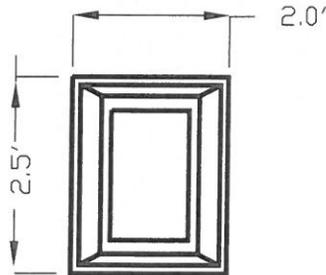
Scale: N.T.S.	Revision Date: 07/31/2013	Drawn By: JM	Designed By: JM
CadFile: K:\Specifications\Service Policy\SINGLE PHS SC BASE.dwg			Attachment #: 3A



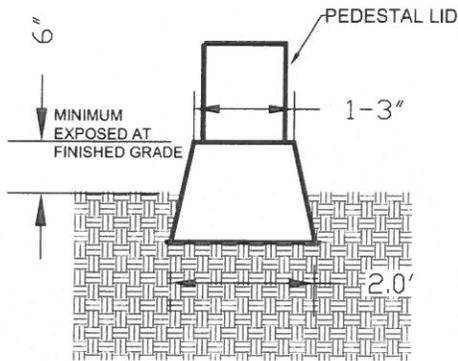
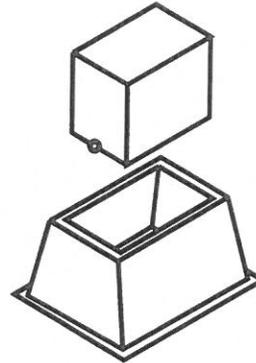
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PO Box 50220  
Idaho Falls, ID 83405-0220  
Telephone: 208-612-8430

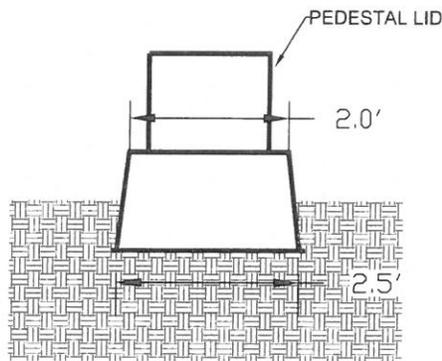
# SECONDARY SERVICE PEDESTAL BASE ( GROUND SLEEVE )



**PLAN VIEW**



**FRONT VIEW**



**SIDE VIEW**

SECONDARY SERVICE PEDESTAL. BASE ( GROUND SLEEVE ) SHALL BE PROVIDED BY IDAHO FALLS POWER, BUT SHALL BE INSTALLED TO REQUIRED GRADE BY THE CONTRACTOR/DEVELOPER. THE TOP OF THE BASE SHALL BE INSTALLED A MINIMUM OF 6" ABOVE FINISHED GRADE. POSITIVE DRAINAGE MUST BE PROVIDED AWAY FROM THE PEDESTAL BASE.

## SECONDARY SERVICE PEDESTAL BASE

### SERVICE POLICY ATTACHMENTS

IDAHO FALLS POWER  
CITY OF IDAHO FALLS, IDAHO

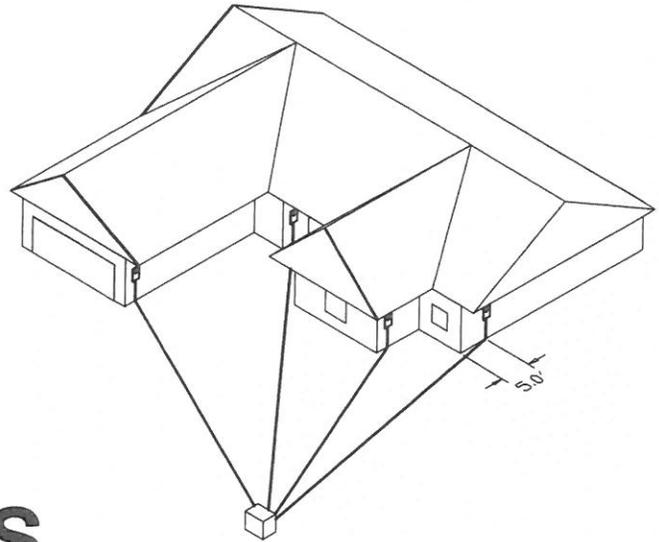
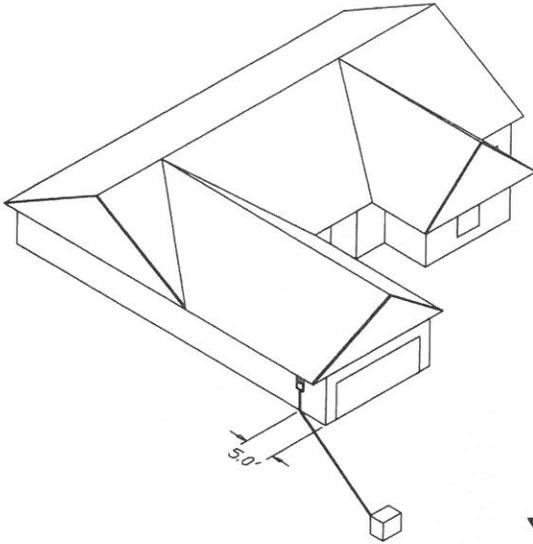
Scale: N.T.S.	Revision Date: 07/31/2013	Drawn By: JM	Designed By: JM
CadFile: K:\Specifications\Service Policy\SECONDARY SERVICE PED.dwg Attachment #: 3 (3 OF 3)			



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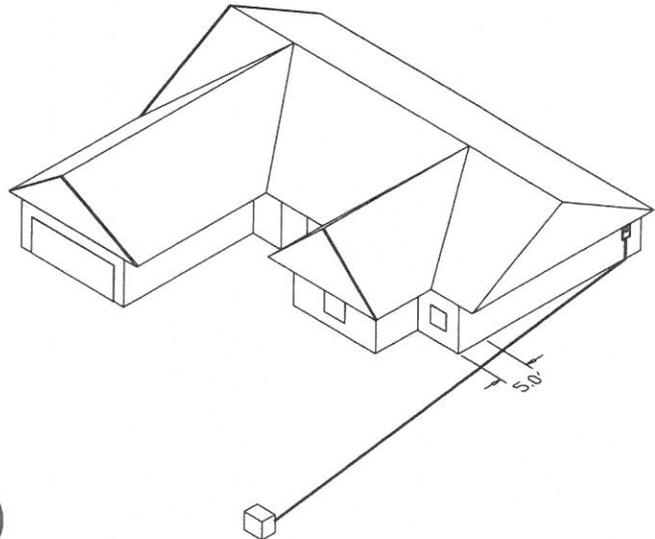
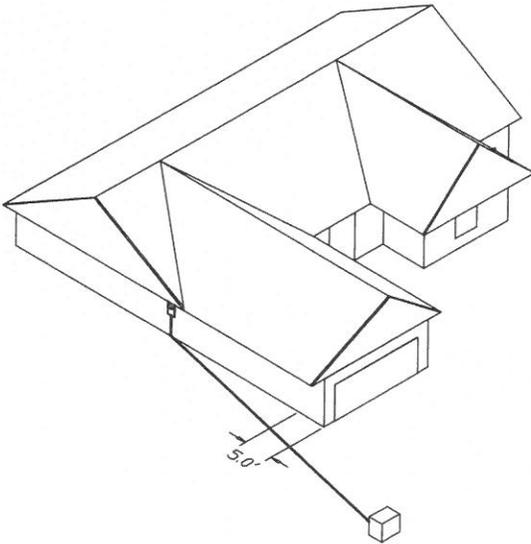
140 South Capital Ave.  
PO Box 50220  
Idaho Falls, ID 83405-0220  
Telephone: 208-612-8430

## TYPICAL RESIDENTIAL UNDERGROUND SERVICE



# YES

Conduit will have a maximum of 360° of bends per run. Idaho Falls Power will inspect all conduit prior to backfilling. Meter must be front yard accessible.



# NO NOT PERMITTED

### TYPICAL RESIDENTIAL UNDERGROUND SERVICE

#### SERVICE POLICY ATTACHEMENTS

IDAHO FALLS POWER  
CITY OF IDAHO FALLS, IDAHO

Scale:	Revision Date:	Drawn By:	Designed By:	
N.T.S.	07/31/2013	JM	JM	
CaddFile: K:\Specifications\Service Policy\TYP RES UG SERVICE.dwg				Attachment #: 4



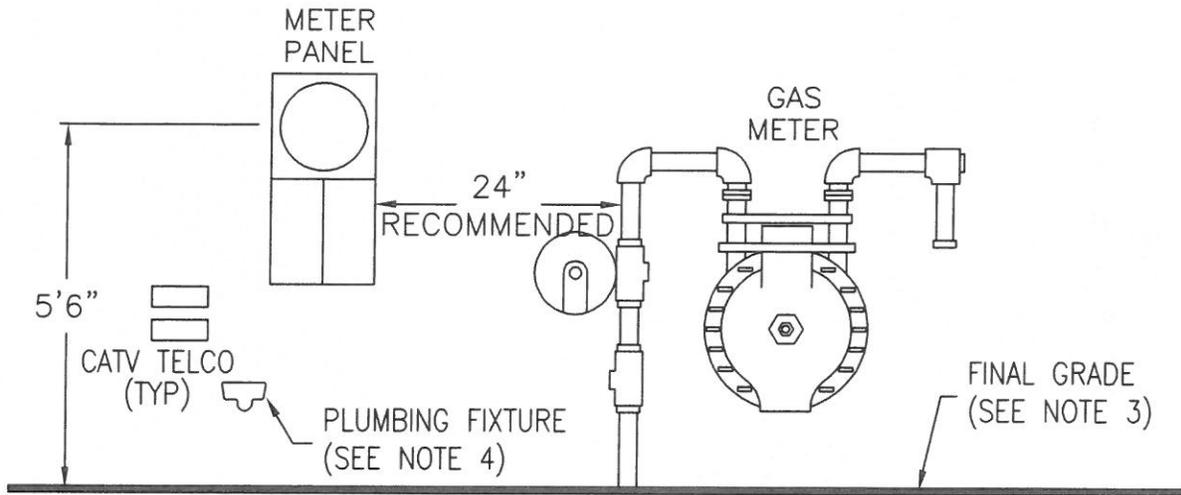
**Idaho Falls Power**  
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PO Box 50220  
Idaho Falls, ID 83405-0220  
Telephone: 208-612-8430



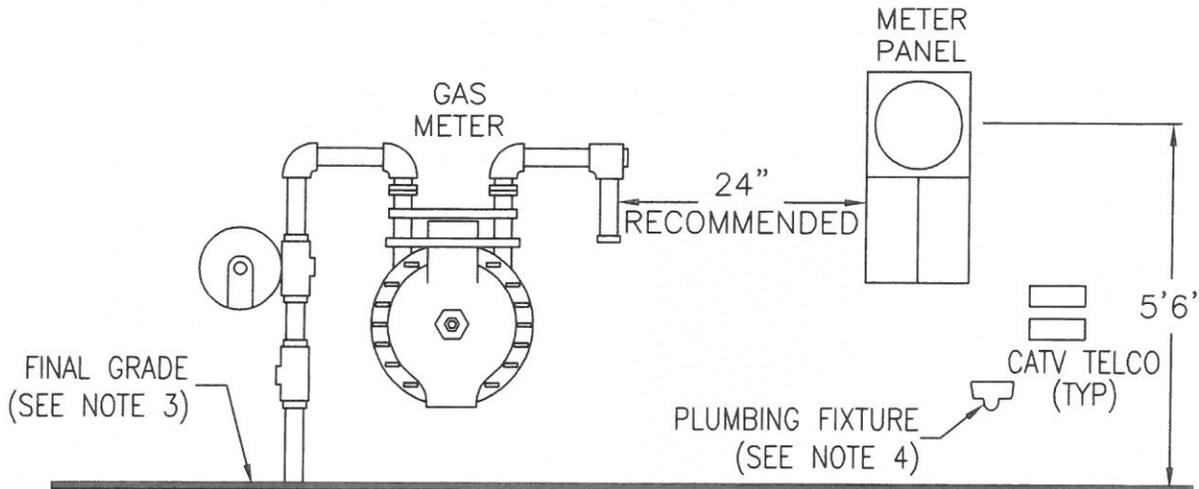
# ELECTRICAL SERVICE REQUIREMENTS

## SEPARATION OF METER ASSEMBLIES FOR ELECTRIC AND GAS SERVICES



### NOTES:

1. Size and dimensions of panels will vary. Drawings are not to scale.
2. This drawing pertains to both overhead and underground electric service applications.
3. Maintain 3' of clear, level and unobstructed work space in front of both meters.
4. Plumbing fixtures which extend more than 6" out from wall surface must be located a safe distance from the outside edge of the meter panel.



### ELECTRICAL SERVICE REQUIREMENTS

#### SERVICE POLICY ATTACHMENTS

ISAHO FALLS POWER  
CITY OF IDAHO FALLS, IDAHO

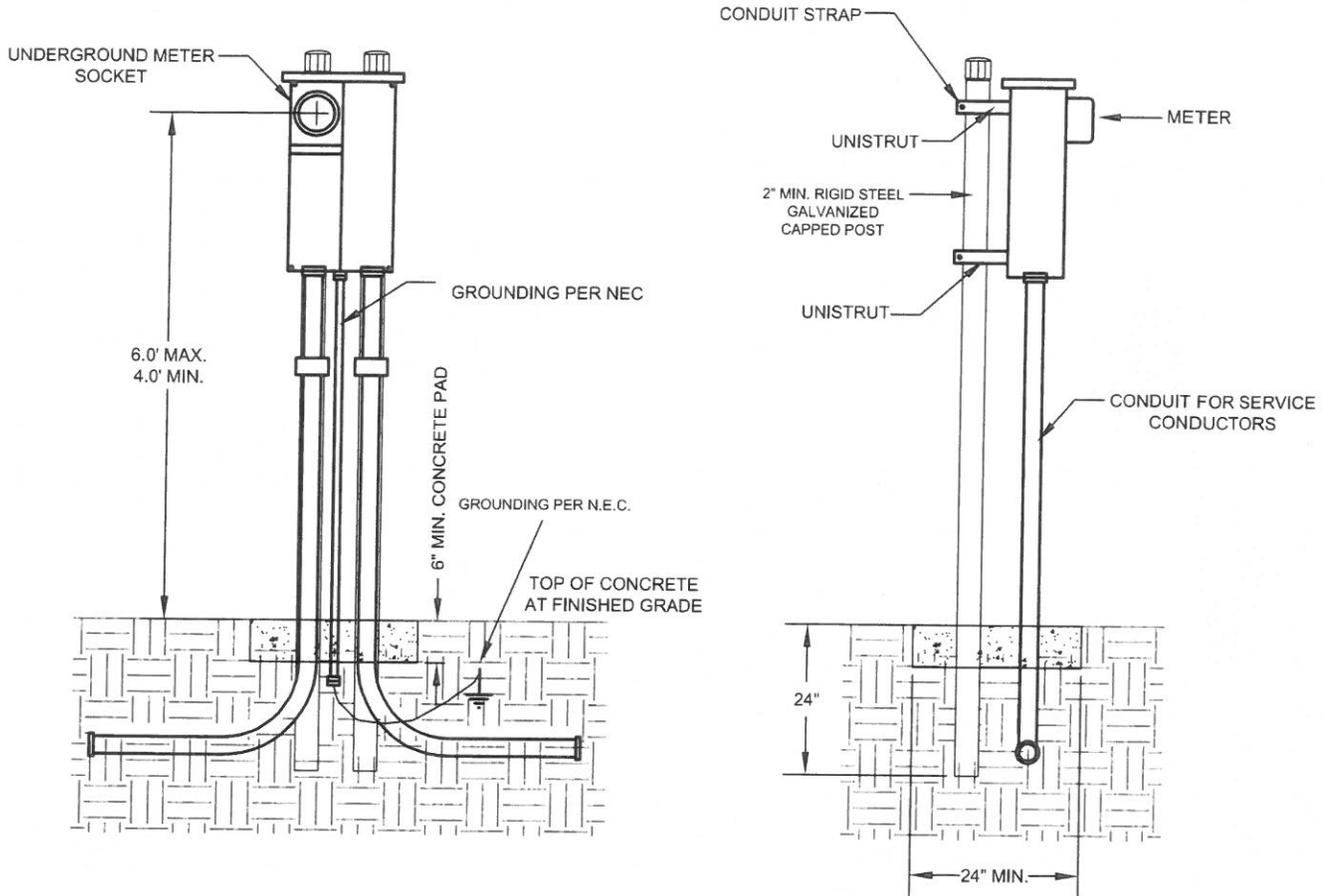
Scale: N.T.S.	Revision Date: 07/31/2013	Drawn By: JM	Designed By: JM	
CadFile: K:\Specifications\Service Policy\GASANDELECT.dwg				Attachment #: 6



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Idaho Falls, ID 83405-0220  
Telephone: 208-612-8430

# FREE STANDING METER PANEL (POST MOUNTED - 1Ø) (RESIDENTIAL UP TO 200 AMPS ONLY)



**CUSTOMER WILL FURNISH AND INSTALL:**

- METER SOCKET ENCLOSURE (UNDERGROUND TYPE)
- PEDESTAL HARDWARE
- CONDUIT
- RIGHT OF WAY
- TRENCH EXCAVATION AND BACKFILL
- GROUNDING PER NEC
- CONCRETE PAD, 24" X 24" X 6" DEEP

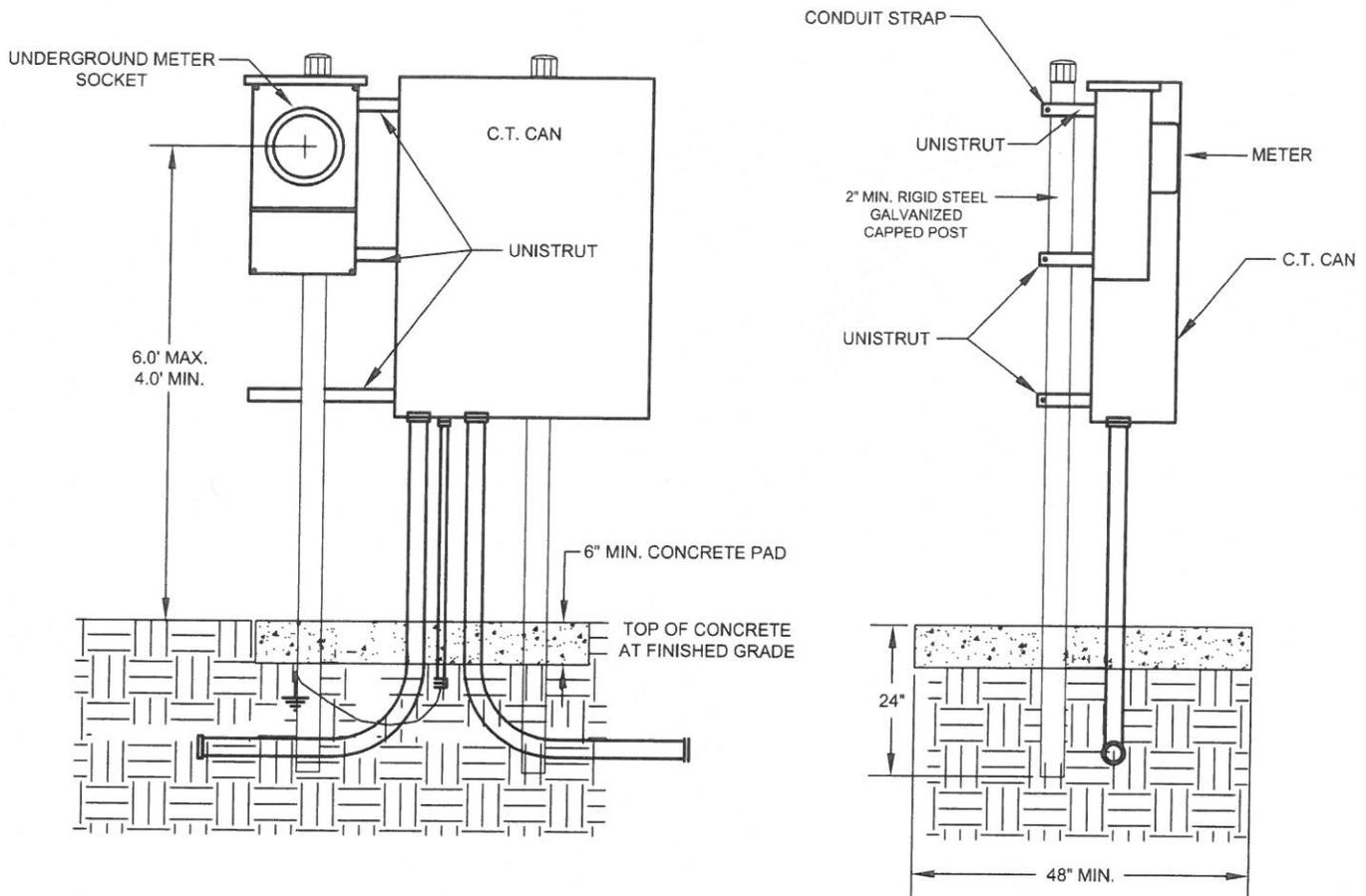
**ADDITIONAL REQUIREMENTS:**

1. WRITTEN APPROVAL FROM THE POWER COMPANY MUST BE OBTAINED BEFORE INSTALLING A FREE STANDING PEDESTAL.
2. THE METER PEDESTAL IS TYPICALLY LOCATED ADJACENT TO, OR IN, THE EASEMENT CLOSE TO THE DRIVEWAY. THE EXACT LOCATION OF THE METER MUST BE SPECIFIED AND/OR APPROVED BY THE POWER COMPANY.
3. REFER TO SERVICE POLICY FOR UNDERGROUND AND CONDUIT REQUIREMENTS.
4. SERVICE CONDUIT MUST BE PLUMB IN ALL DIRECTIONS.

**FREE STANDING METER PANEL (POST MOUNTED)**

SERVICE POLICY ATTACHMENTS			
IDAHO FALLS POWER			
CITY OF IDAHO FALLS, IDAHO			
Scale:	Revision Date:	Drawn By:	Designed By:
N.T.S.	07/31/2013	JM	JM
CadFile: K:\Specifications\Service Policy\FREE STANDING METER.dwg		Attachment #: 7	
 <b>Idaho Falls Power</b> A community with its own kind of energy		140 South Capital Ave. PO Box 50220 Idaho Falls, ID 83405-0220 Telephone: 208-612-8430	

# FREE STANDING CT METER (POST MOUNTED - 1Ø OR 3Ø)



**CUSTOMER WILL FURNISH AND INSTALL:**

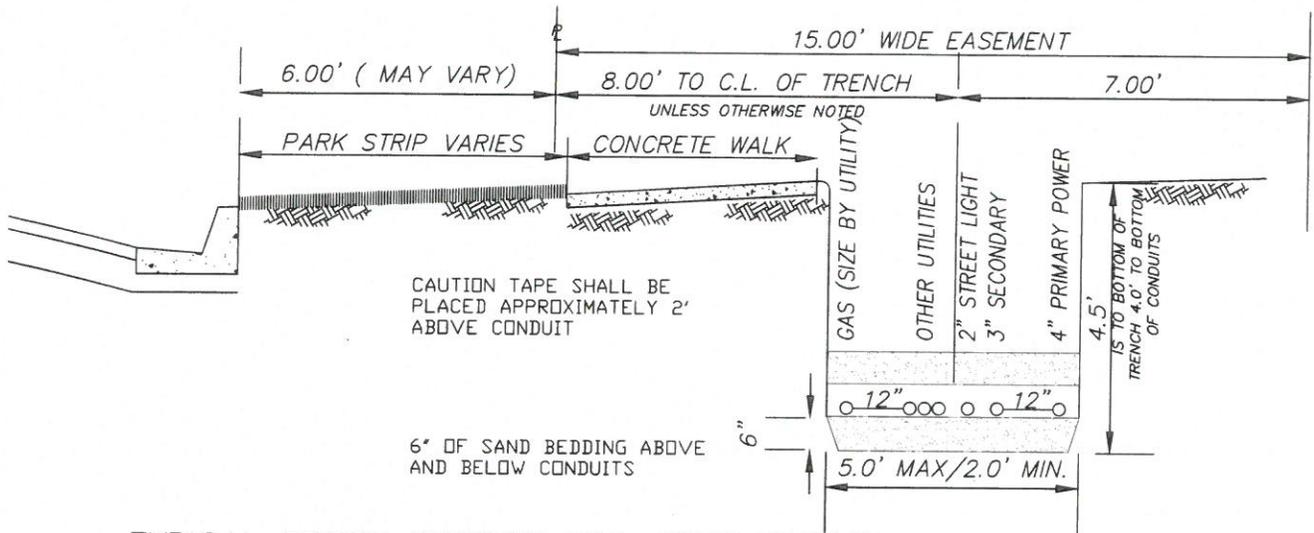
- METER SOCKET ENCLOSURE (UNDERGROUND TYPE)
- PEDESTAL HARDWARE
- CONDUIT
- RIGHT OF WAY
- TRENCH EXCAVATION AND BACKFILL
- GROUNDING PER NEC
- CONCRETE PAD, 48" X 48" X 6" DEEP

**ADDITIONAL REQUIREMENTS:**

1. WRITTEN APPROVAL FROM IDAHO FALLS POWER MUST BE OBTAINED BEFORE INSTALLING A FREE STANDING PEDESTAL.
2. THE METER PEDESTAL IS TYPICALLY LOCATED ADJACENT TO, OR IN, THE EASEMENT CLOSE TO THE TRANSFORMER. THE EXACT LOCATION OF THE METER MUST BE SPECIFIED AND/OR APPROVED BY IDAHO FALLS POWER.
3. REFER TO SERVICE POLICY FOR UNDERGROUND AND CONDUIT REQUIREMENTS.
4. SERVICE CONDUIT MUST BE PLUMB IN ALL DIRECTIONS.
5. C.T. CAN MUST BE ADJACENT TO METER BASE.

**FREE STANDING CT METER (POST MOUNTED)**

SERVICE POLICY ATTACHMENTS			
IDAHO FALLS POWER			
CITY OF IDAHO FALLS, IDAHO			
Scale:	Revision Date:	Drawn By:	Designed By:
N.T.S.	07/31/2013	JM	JM
CadFile: K:\Specifications\Service Policy\FREE STANDING METER.dwg		Attachment #: 7A	
 <b>Idaho Falls Power</b> A community with its own kind of energy		140 South Capital Ave. PO Box 50220 Idaho Falls, ID 83405-0220 Telephone: 208-612-8430	



TYPICAL CROSS SECTION FOR JOINT TRENCH  
 CONTACT IDAHO FALLS POWER FOR TRENCH SPECIFICS

**JOINT UTILITY TRENCH DETAIL**

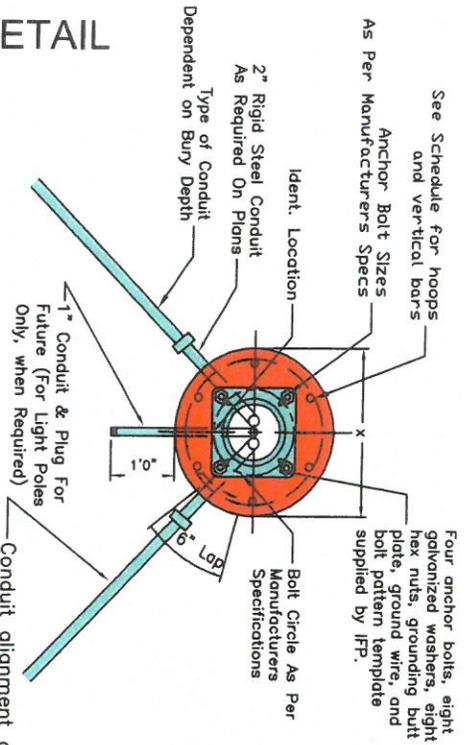
**SERVICE POLICY ATTACHMENTS**  
**IDAHO FALLS POWER**  
 CITY OF IDAHO FALLS, IDAHO

Scale:	Revision Date:	Drawn By:	Designed By:
N.T.S.	07/15/2014	JM	JM
C:\File_K\Specifications\Service Policy\JOINT UTILITY TRENCH.dwg			Attachment # 8

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 Idaho Falls, ID 83405-0220  
 Telephone: 208-612-8430

# LIGHT POLE FOUNDATION DETAIL

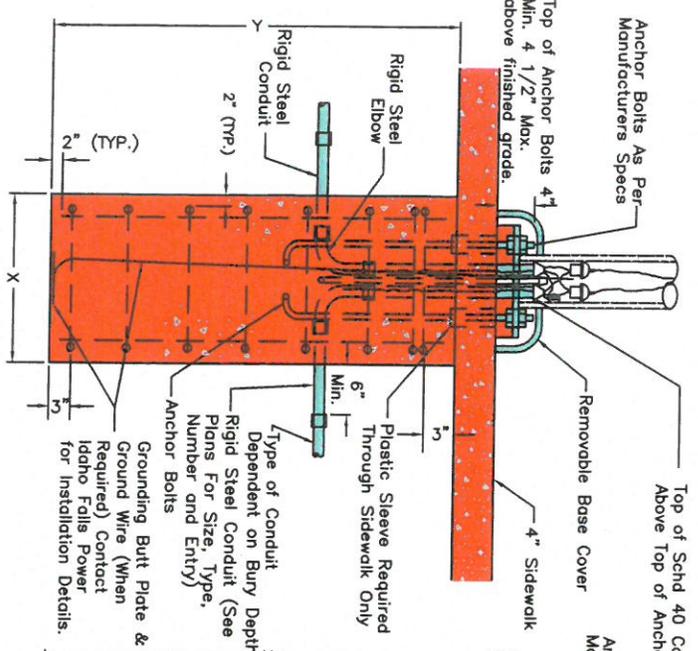


Conduit alignment and size shall be as per plans or as directed by Idaho Falls Power.

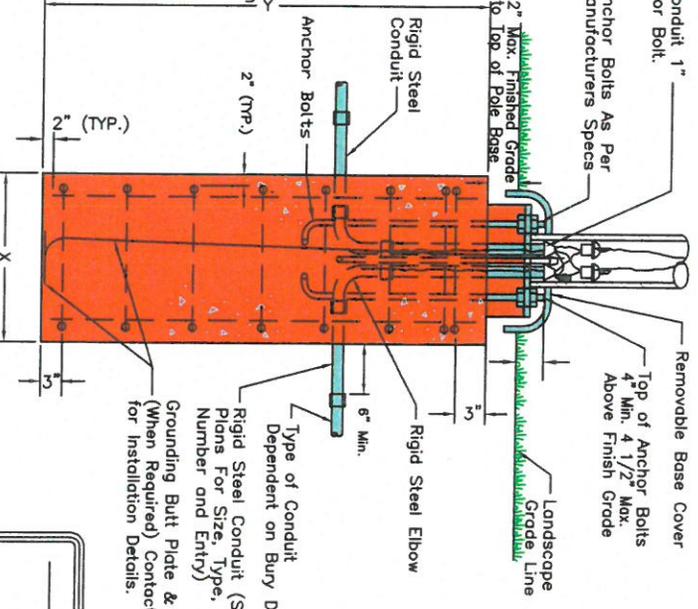
**ALL BASES SHALL BE INSPECTED AND APPROVED BY IFP PRIOR TO CONCRETE PLACEMENT**

POLE FOUNDATION SCHEDULE									
STRUCTURE TYPE	FOUNDATION TYPE	X	Y	NO. HOOPS	VERTICAL ROOS	CU. YDS.			
				SIZE (LN. FT.)	SIZE (LN. FT.)	CONCRETE			
30' Light Pole	A	2'-0"	5'-0"	4 #4	23'-0"	6 #4 28'-0"			
Pedestrian Signal Pole	C	3'-0"	8'-0"	5 #4	44'-2"	8 #6 61'-4"			
40' Light Pole						2.1			

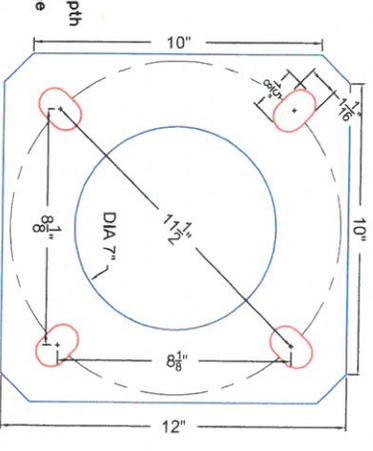
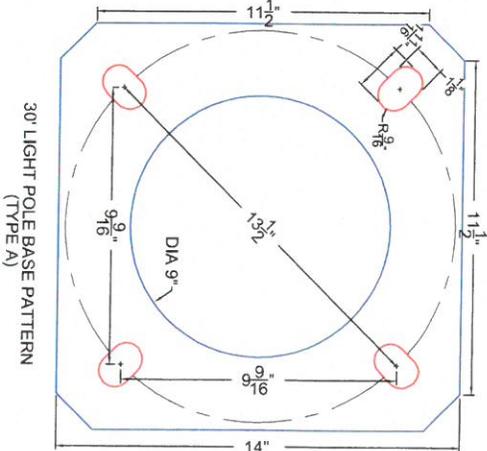
NOT TO SCALE  
BASED ON CITY STANDARD  
DRAWING 400-11



**SIDE VIEW**  
**POLE FOUNDATION BASE DETAIL**  
**(SIDEWALK AREAS)**



**SIDE VIEW**  
**POLE FOUNDATION BASE DETAIL**  
**(LANDSCAPED AREAS)**



## LIGHT POLE FOUNDATION DETAIL

**SERVICE POLICY ATTACHMENTS**  
**IDAHO FALLS POWER**  
**CITY OF IDAHO FALLS, IDAHO**

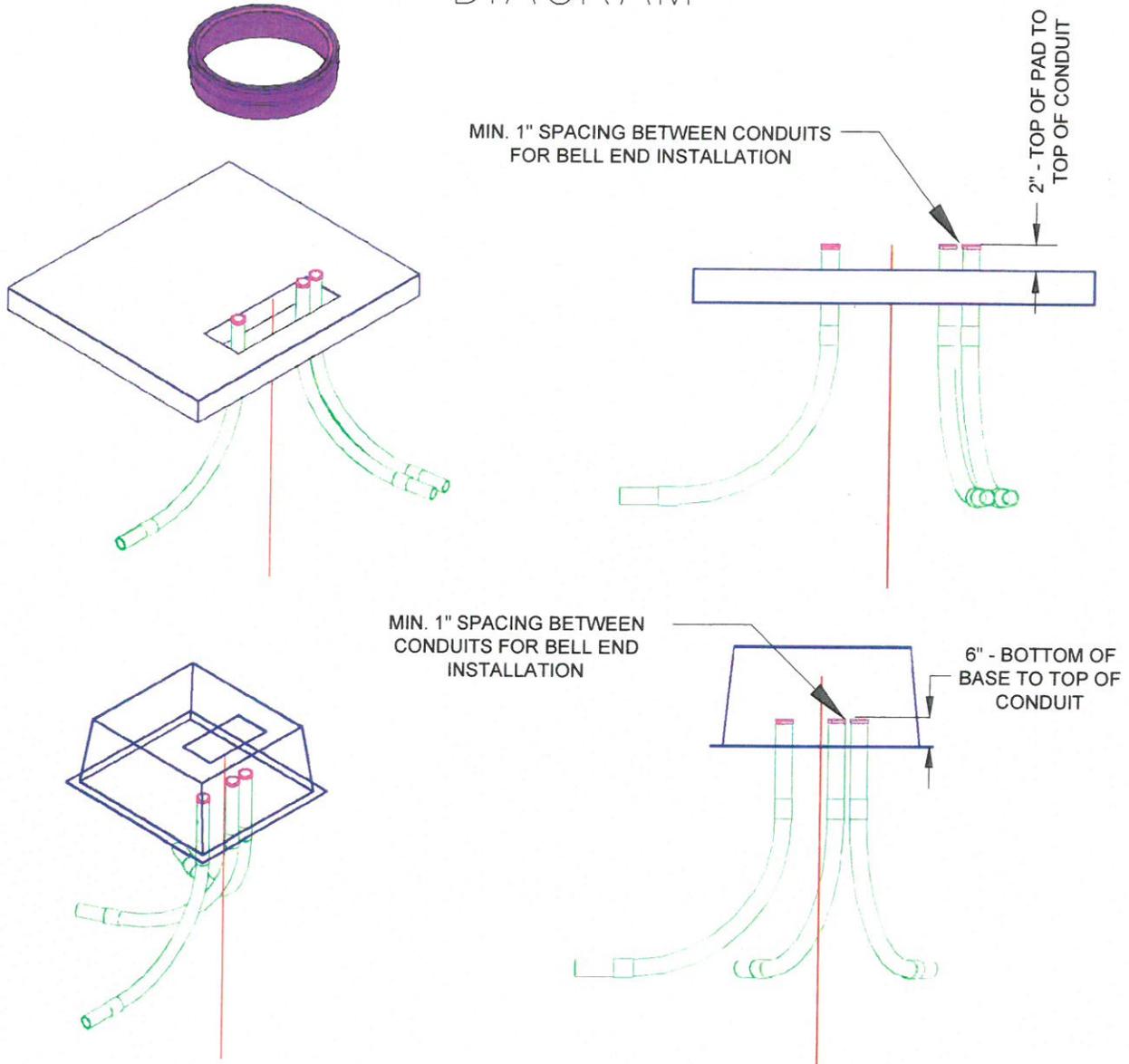
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Idaho Falls, ID 83405-0220  
Telephone: 208-612-8430

Scale: N.T.S.  
Revision Date: 07/31/2013  
Drawn By: JIM  
Designed By: JIM

Attachment #: 9

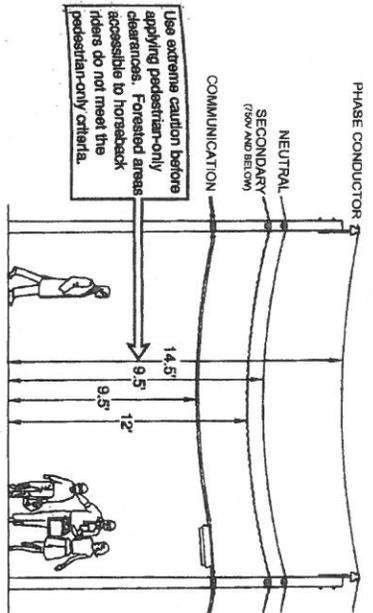
# TYPICAL BELL END INSTALLATION DIAGRAM



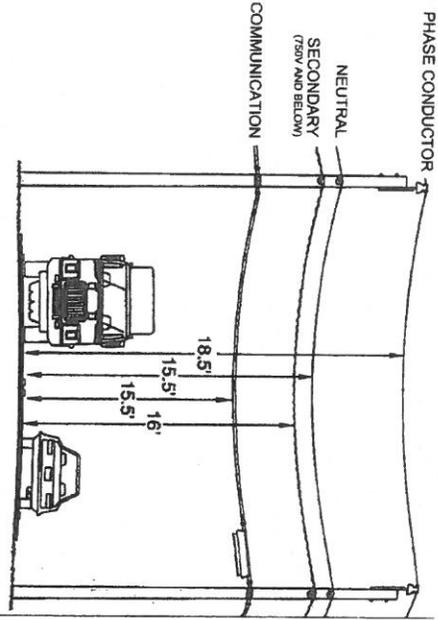
ALL CONDUIT (PRIMARY AND SECONDARY) MUST BE CUT TO 6" FROM BOTTOM OF BASE OR 2" ABOVE TOP OF CONCRETE PAD. BELL ENDS MUST BE SUPPLIED AND INSTALLED BY DEVELOPER/CONTRACTOR. ALL CONDUITS MUST BE CAPPED AND LABELED TO IDENTIFY ROUTING. BELL END INSTALLATION DETAIL TO BE USED FOR ALL ELECTRICAL FACILITIES INCLUDING SECONDARY PEDESTALS, SWITCH CABINETS, TRANSFORMERS, AND LIGHT POLE BASES. TEMPORARY SINGLE PHASE TRANSFORMER PADS SHALL HAVE CONDUIT NO MORE THAN 2" ABOVE PAD.

## TYPICAL BELL END INSTALLATION DETAIL

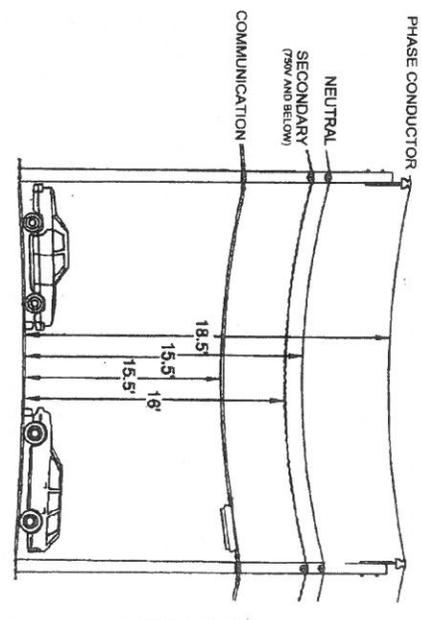
SERVICE POLICY ATTACHMENTS			
IDAHO FALLS POWER			
CITY OF IDAHO FALLS, IDAHO			
Scale:	Revision Date:	Drawn By:	Designed By:
N.T.S.	07/15/2014	JM	JM
CadFile: K:\Specifications\Service Policy\BELL END DETAIL.dwg			Attachment # 10
 <b>Idaho Falls Power</b> A community with its own kind of energy		140 South Capital Ave. PO Box 50220 Idaho Falls, ID 83405-0220 Telephone: 208-612-8430	



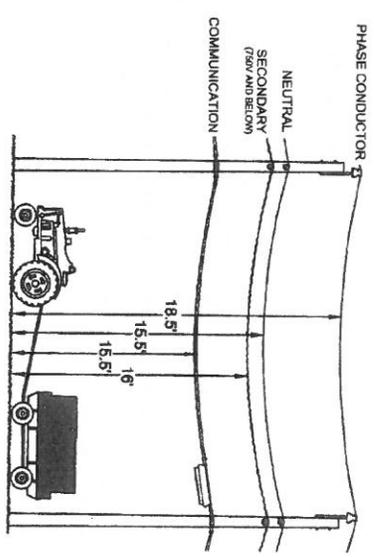
**SPACES AND WAYS SUBJECT TO PEDESTRIANS OR RESTRICTED TRAFFIC ONLY**



**ROADS, STREETS, AND OTHER AREAS SUBJECT TO TRAFFIC**



**DRIVEWAYS, PARKING LOTS, AND ALLEYS**



**LAND TRAVERSED BY VEHICLES, SUCH AS CULTIVATED, GRAZING, FOREST, ORCHARD, ETC.**

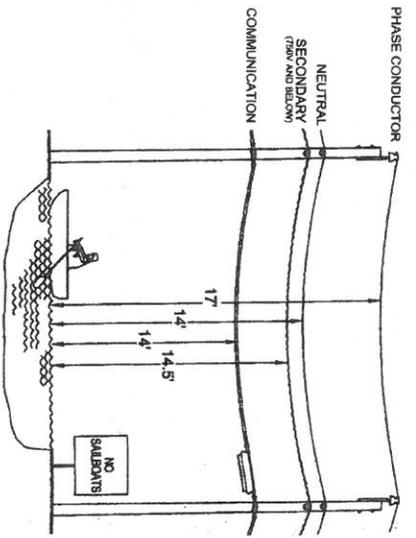
**OVERHEAD CLEARANCES**

**SERVICE POLICY ATTACHMENTS  
IDAHO FALLS POWER  
CITY OF IDAHO FALLS, IDAHO**

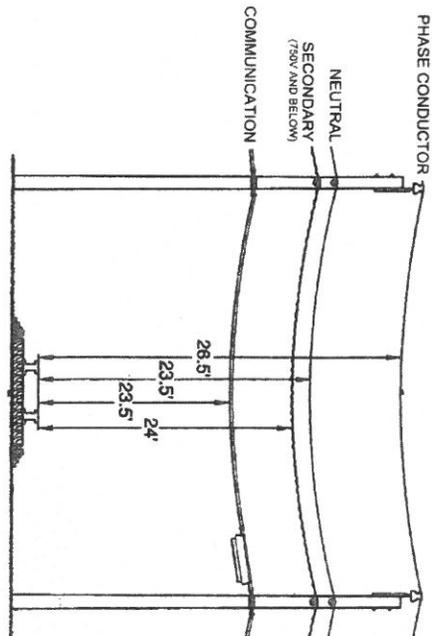
Scale:	Revision Date:	Drawn By:	Designed By:
N.T.S.	07/31/2013	JM	JM
File:	Attachment # 11		
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	PO Box 50220		
	Idaho Falls, ID 83405-0220		
	Telephone: 208-612-9430		



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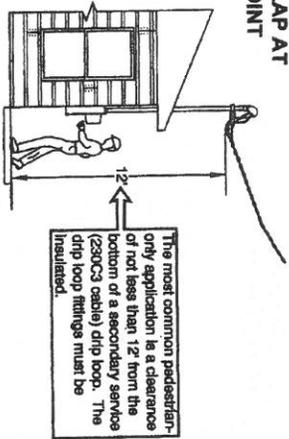


**WATER AREAS NOT SUITABLE FOR SAIL BOATING OR WHERE SAILBOATING IS PROHIBITED**



**RAILROADS**

**RULES OF THE NESC AND THE NATIONAL ELECTRIC CODE (NEC) OVERLAP AT THE SERVICE POINT**



The most common pedestrian-only application is a clearance of not less than 12' from the bottom of a secondary service (23003 cable) drip loop. The drip loop fittings must be insulated.

**OVERHEAD CLEARANCES**

**SERVICE POLICY ATTACHMENTS  
IDAHO FALLS POWER  
CITY OF IDAHO FALLS, IDAHO**

Scale:	Revision Date:	Drawn By:	Designed By:	Attachment #:
N.T.S.	07/31/2013	JM	JM	12
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