

COMPONENTS

- ① VAULT 4' X 6' X 3'-6", UTILITY VAULT CO. #644LA OR EQUAL.
- ② COVER 4' X 4' X 6", UTILITY VAULT CO. #44-332P OR EQUAL.
- ③ PAD 64" X 84" X 6" W/15" X 54" OPENING UTILITY VAULT CO. PAGE 53.3 OR EQUAL.

EQUALS MUST BE APPROVED BY CLARK PUBLIC UTILITIES PRIOR TO INSTALLATION

NOTES:

- ① LOCKING BOLT SHALL BE PER REA STANDARD PENTA HEAD 1/2" BOLT AND RECESS.
- ② COMPONENT ① SHALL BE PLACED ON 12 INCHES OF 1 INCH-MINUS CRUSHED ROCK.
- ③ COMPONENT ③ MAY BE PLACED ON UNDISTURBED EARTH OR 12 INCHES OF COMPACTED 5/8 INCH-MINUS CRUSHED ROCK.
- ④ CUSTOMER SHALL INSTALL ALL 3 COMPONENTS SHOWN, ALL SECONDARY CONDUITS INTO COMPONENT ①, ALL SECONDARY CABLES WITH A MINIMUM 10' OF EXCESS IN VAULT FOR MAKE UP AND ENTER ONLY IN THE AREAS SHOWN.
- ⑤ ALL PRIMARY CONDUITS SHALL ENTER THE PAD FROM OUTSIDE OF THE VAULT AND ONLY IN THE LOCATIONS SHOWN.
- ⑥ THIS PAD IS REQUIRED IF MORE THAN 6 CONDUCTORS PER PHASE ARE BEING INSTALLED.



CONSTRUCTION STANDARDS

PRECAST PAD AND VAULT FOR THREE PHASE TRANSFORMERS

REVISIONS

△	DATE	ENGR	OPS
0	2/23/00	HWH	MA

PAGE: 1 of 1

UTP4-6

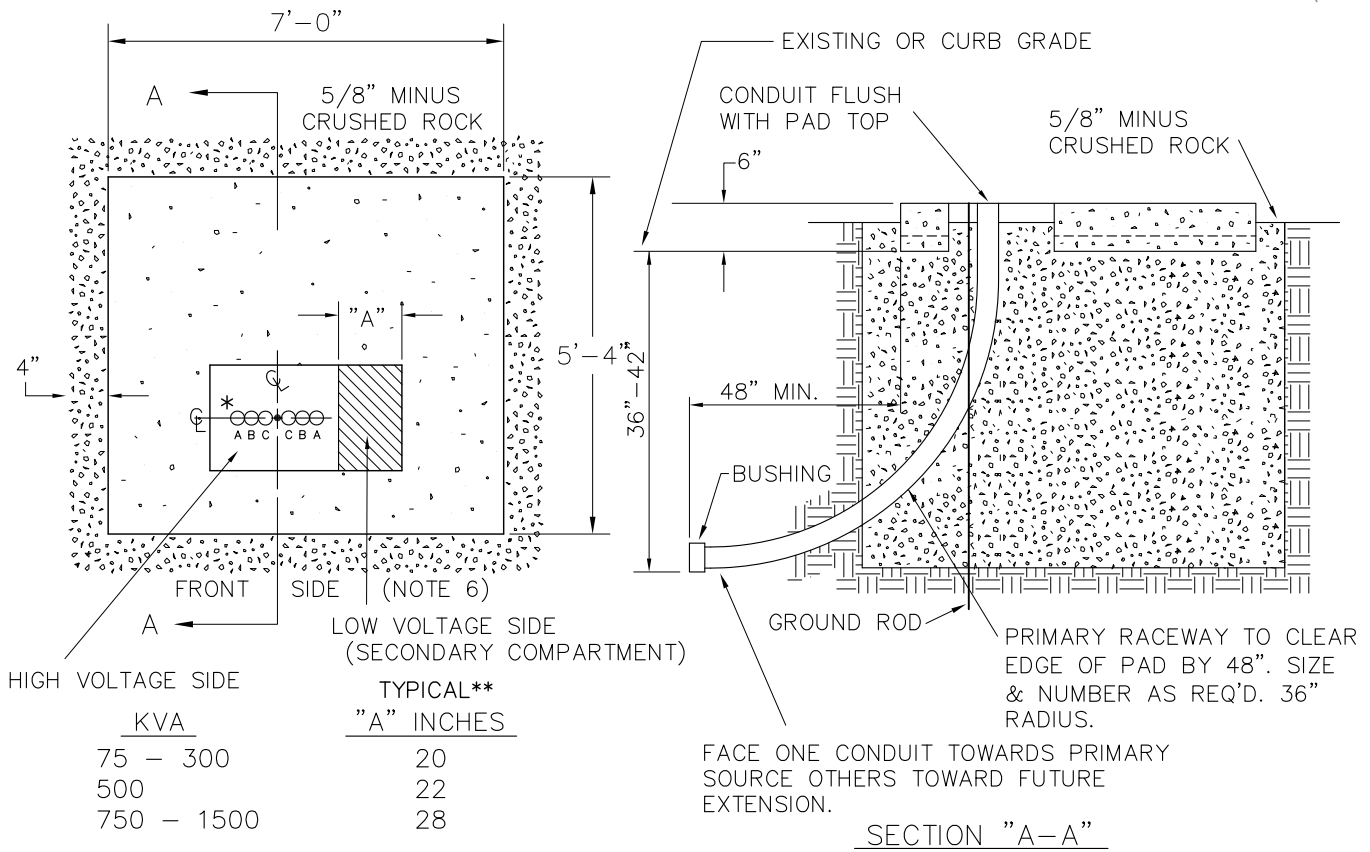
CAD FILE: UTP4-6

APP: DATE: 9/94

SECTION 1400

1400 Underground Pad Transformer

1400 Underground Pad Transformers



HIGH VOLTAGE SIDE	LOW VOLTAGE SIDE (SECONDARY COMPARTMENT)
KVA	TYPICAL** "A" INCHES
75 - 300	20
500	22
750 - 1500	28

* (3) 2" conduits, normally (1) 4" is used
 **Varies by manufacturer

3Ø PADMOUNT TRANSFORMER CONDUIT ORIENTATION

NOTES:

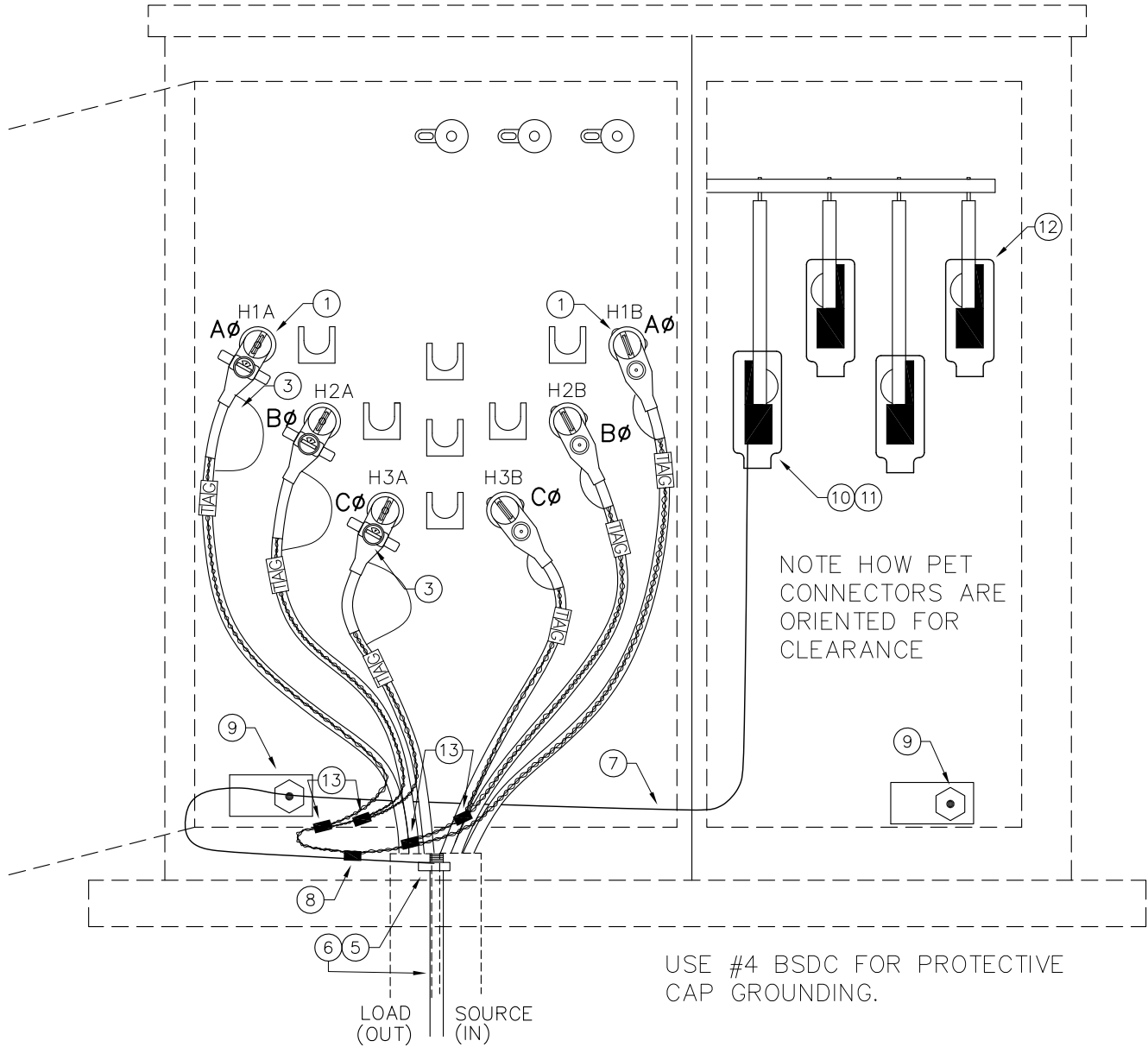
1. LOCATE HIGH VOLTAGE CONDUITS IN THE CENTER OF THE HIGH VOLTAGE SIDE.
2. LOW VOLTAGE CONDUITS MUST BE WITHIN THE SHADED AREA.
3. THE CONCRETE PAD AND ALL CONDUITS SHALL BE IN PLACE AND APPROVED BY THE DISTRICT PRIOR TO TRANSFORMER INSTALLATION.
4. IT SHALL BE THE RESPONSIBILITY OF THE OWNER OR A REPRESENTATIVE OF THE OWNER TO COMPLY WITH ALL APPLICABLE CODE REQUIREMENTS.
5. THIS INTRODUCTION SUPPLEMENTS THE INDIVIDUAL CONCRETE PAD DETAILS SUCH AS UTP4 OR ANY SPECIAL DISTRICT DESIGN.
6. REFER TO UPTC FOR CLEARANCES.*
7. THE PAD SHALL BE LOCATED SO THAT NO PART OF THE TRANSFORMER IS CLOSER THAN 10 FEET TO THE COMBUSTIBLE SURFACE, WINDOWS, DOORS, OR 3 FEET TO A NON-COMBUSTIBLE SURFACE.
8. ANY BACKFILLING UNDER THE TRANSFORMER PAD MUST BE BACK FILLED WITH 5/8" MINUS COMPACTED CRUSHED ROCK, COMPACTED IN LIFTS, TO PREVENT FUTURE PAD SETTLING.

- R1 - CONDUIT LAYOUT / ELEVATIONS
- R2 - MINOR DRAWING CHANGES
- R3 - ADDED DIMENSIONS AND AIC AND REMOVED SECONDARY FUTURES
- R4 - UPDATED FOR ALL-CONDUIT SYSTEM

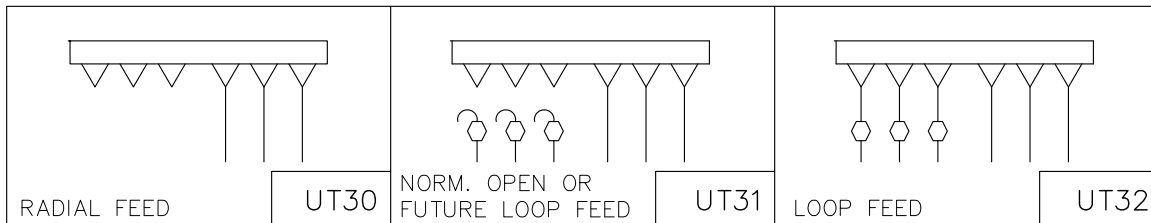


CONSTRUCTION STANDARDS
 3Ø TRANSFORMER PAD ORIENTATION AND CONDUIT INSTALLATION

REVISIONS			
Δ	DATE	ENGR	OPS
1	2/23/00	HWH	MA
2	7/15/02	JEH	TR
3	1/26/04	LB	AH
4	12/29/04	LB	AH
Δ MINOR DRAWING CHANGES			
APP:		SECTION	
DATE: 10/98		1400	



FRONT VIEW OF TRANSFORMER
(UT32 SHOWN)



NOTE: SPECIFY I.D. TAGS AS REQUIRED.

Rev 3: Changed to Voltage-reset fault indicators.



CONSTRUCTION STANDARDS
THREE PHASE
PADMOUNT TRANSFORMER ASSEMBLIES

REVISIONS			
Δ	DATE	ENGR	OPS
1	2/23/00	HWH	MA
2	9/23/04	LB	AH
3	4/29/09	CM	AH

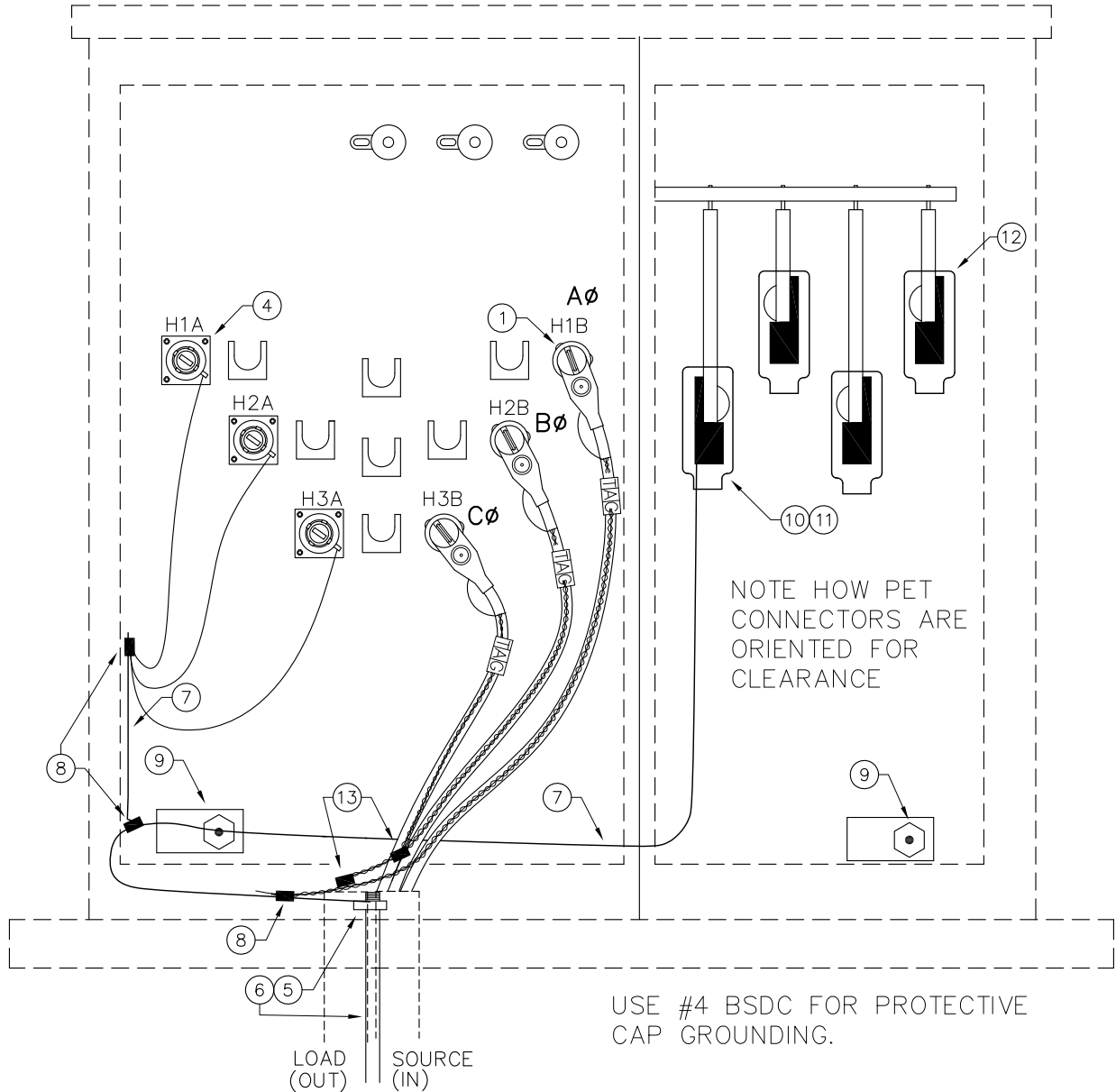
PAGE:
1 of 3

UT30-UT32

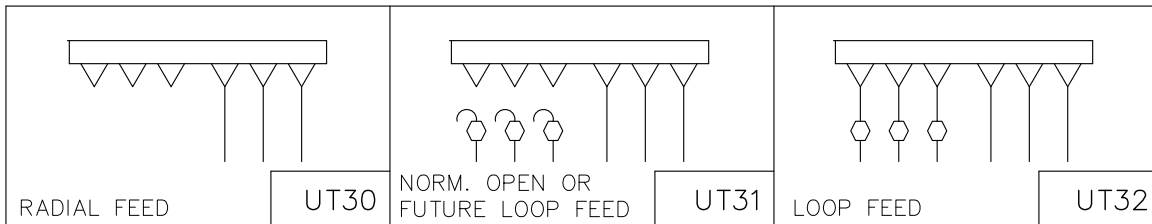
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UT30

APP:
DATE: 10/99

SECTION
1400



FRONT VIEW OF TRANSFORMER
(UT30 SHOWN)



NOTE: SPECIFY I.D. TAGS AS REQUIRED.

Rev 3: Changed to Voltage-reset fault indicators.



CONSTRUCTION STANDARDS
THREE PHASE
PADMOUNT TRANSFORMER ASSEMBLIES

REVISIONS			
REV	DATE	ENGR	OPS
1	2/23/00	HWH	MA
2	9/23/04	LB	AH
3	4/29/09	CM	AH

PAGE:
2 of 3

UT30-UT32

CAD FILE:
UT30

APP:
DATE: 10/99

SECTION
1400

Rev 3: Changed to Voltage-reset fault indicators.

ITEM NO.	DESCRIPTION	UT30	
		QTY.	S/N
1	Elbow, Loadbreak, 1/0, 200A, 175 mil	3	1312
4	Cap, Protective Insulated 200A	3	265
5	Clamp, Ground Rod 5/8", Small	1	281
6	Rod, Ground 5/8" x 8'	1	1124
7	Conductor, Wire BSDC #4 SLD	10	376
8	Connector, Crimpet, #4 to #2 (2C4)	1	454
9	Ground Lug	2	842
10	Connector, PET, #2-750 Al/Cu, 6 Position	4	2129
11	Bolt, Machine, 1/2 x 2" SS w/ Bronze Nut & Belleville Washer	16	1389
12	Cover, PET, 8 Position	4	2182
13	Connector, Crimpet, #2 to #2 (2C2)	2	455
ITEM NO.	DESCRIPTION	UT31	
		QTY.	S/N
1	Elbow, Loadbreak, 1/0, 200A, 175 mil	6	1312
2	Bushing, Standoff Insulated 200A	3	252
3	Voltage-Reset Fault Indicator, 400A Trip, 1Ø UG	3	2694*
4	Cap, Protective Insulated, 200A	3	265
5	Clamp, Ground Rod 5/8", Small	1	281
6	Rod, Ground 5/8" x 8'	1	1124
7	Conductor, Wire BSDC #4 SLD	10	376
8	Connector, Crimpet, #4 to #2 (2C4)	1	454
9	Ground Lug	2	842
10	Connector, PET, #2-750 Al/Cu, 6 Position	4	2129
11	Bolt, Machine, 1/2 x 2" SS w/ Bronze Nut & Belleville Washer	16	1389
12	Cover, PET, 8 Position	4	2182
13	Connector, Crimpet, #2 to #2 (2C2)	4	455
ITEM NO.	DESCRIPTION	UT32	
		QTY.	S/N
1	Elbow, Loadbreak, 1/0, 200A, 175 mil	6	1312
3	Voltage-Reset Fault Indicator, 400A Trip, 1Ø UG	3	2694*
5	Clamp, Ground Rod 5/8", Small	1	281
6	Rod, Ground 5/8" x 8'	1	1124
7	Conductor, Wire BSDC #4 SLD	10	376
8	Connector, Crimpet, #4 to #2 (2C4)	1	454
9	Ground Lug	2	842
10	Connector, PET, #2-750 Al/Cu, 6 Position	4	2129
11	Bolt, Machine, 1/2 x 2" SS w/ Bronze Nut & Belleville Washer	16	1389
12	Cover, PET, 8 Position	4	2182
13	Connector, Crimpet, #2 to #2 (2C2)	4	455



CONSTRUCTION STANDARDS

THREE PHASE
PADMOUNT TRANSFORMER ASSEMBLIES

REVISIONS

△	DATE	ENGR	OPS
1	2/23/00	HWH	MA
2	9/23/04	LB	AH
3	4/29/09	CM	AH

PAGE:
3 of 3

UT30-UT32

CAD FILE:
UT30APP:
DATE: 10/99SECTION
1400