

TRANSFORMATION

DRAWING NUMBER	SHT.	DRAWING TITLE	DWG REV.	BOM REV.
B-08-00	1 - 2	GENERAL INFORMATION	E / A	-
B-08-05	1 - 1	FUSE LOAD-BREAK, TYPICAL	0	-
B-08-10	1 - 1	FUSING 1Ø PADMOUNT TRANSFORMER	C	-
B-08-11	1 - 2	FUSING 3Ø PADMOUNT TRANSFORMER	C / D	-
B-08-29	1 - 1	RUD 1Ø 78 SERIES PADMOUNT INSTALLATION, GENERAL	C	-
B-08-30	1 - 1	RURAL & URBAN 1Ø PADMOUNT INSTALLATION, GENERAL	D	-
B-08-31	1 - 1	1Ø TRANSFORMER SECONDARY CONNECTION	D	-
B-08-32	1 - 4	RURAL 1Ø 72 & 73 SERIES PADMOUNT TRANSFORMER	H/F/B	E
B-08-33	1 - 3	RURAL 1Ø 78 SERIES PADMOUNT TRANSFORMER	I / C	G
B-08-34	1 - 4	URBAN 1Ø 72, 73 & 74 SERIES PADMOUNT TRANSFORMER	F/F/B	F
B-08-35	1 - 1	GENERAL INFORMATION 3Ø PADMOUNT TRANSFORMER	A	-
B-08-36	1 - 4	3 Ø PADMOUNT TRANSFORMER	E / B	G / 0
B-08-37	1 - 2	INTERMEDIATE 3Ø PADMOUNT TRANSFORMER	A	A
B-08-38	1 - 2	SMALL 3Ø PADMOUNT TRANSFORMER	A	A
B-08-39	1 - 2	TRANSFORMER ACCESSORIES & INSTALLATION	A / A	-
B-08-45	1 - 2	RURAL 1Ø 72 & 78 SERIES Y-INSERT PADMOUNT TRANSFORMERS	G	D

SaskPower - DISTRIBUTION STANDARDS

APPROVAL	DESIGN CHK	DRN. DCD	INDEX
L. MOEN	D. DONAIS	CHKD.	
		2018-08-23	
DATE OF ISSUE: 2018-09-13		DRAWING NO: B-08-INDEX	SHEET 1 of 1 REV. AB

A. GENERAL DESCRIPTION OF TRANSFORMERS

- SINGLE PHASE LOW PROFILE, ENERGIZED AT 14.4 kV LINE TO GROUND
- SIZES AVAILABLE 25, 50, 100, 167 kVA
- 125 kV BIL
- FEED THROUGH OPERATION – ONE PIECE AND TWO PIECE BUSHINGS
- BAYONET TYPE EXPULSION FUSE – SEE B-08-10 FOR FUSE SIZES
- OLD STYLE 167815/25 TRANSFORMERS WITHOUT CURRENT LIMITING FUSE (SERIAL NUMBERS N12393-XX, N12460-XX, N14096-XX & N14097-XX) ARE TO BE USED IN RURAL AREAS ONLY WHERE THE FAULT CURRENT IS LESS THAN 1800 RMS ASYMMETRICAL. NEW STYLE 167825 TRANSFORMERS WILL INCLUDE A CURRENT LIMITING FUSE HOWEVER THE PRESENCE OF THE CURRENT LIMITING FUSE CAN BE CONFIRMED PRIOR TO INSTALLATION IN SITUATIONS WHERE THE FAULT CURRENT IS MORE THAN 1800 RMS ASYMMETRICAL.

B. LOCATION RESTRICTIONS

1. **LOCATION RELATION TO BUILDINGS**
SEE C-26-02.01 SHEET 2 FOR MINIMUM CLEARANCE BETWEEN PADMOUNTED TRANSFORMERS AND BUILDINGS. SEE B-26-76 SHEETS 1-3 FOR TYPICAL INSTALLATIONS.
2. **LOCATION RELATION TO POINT OF SERVICES**
REFER TO THE VOLTAGE VS AMPACITY CHARTS IN B-22-XX SERVICE CABLES FOR THE MAXIMUM LENGTH OF SERVICE CONDUCTORS. THE MAXIMUM DISTANCE BETWEEN THE TRANSFORMER AND THE SERVICE ENTRANCE IS TO BE 6 m LESS THAN THE MAXIMUM VOLTAGE DROP LENGTH.

C. TYPICAL INSTALLATIONS

1. TYPICAL INSTALLATIONS ARE SHOWN IN DRAWINGS B-08-29 & B-08-30.
2. 1678XX TRANSFORMERS WITH EYEBOLT CLAMPS SHALL USE 1/0 SECONDARY CONDUCTOR ONLY TO SERVICE ONE CUSTOMER. LARGER SECONDARY CONDUCTOR SIZES (GREATER THAN 1/0) OR MULTIPLE SERVICE CONNECTIONS ARE DESIGNED FOR 1672XX TRANSFORMERS.

D. SINGLE PHASE PRIMARY CABLE CONNECTIONS

1. **RADIAL FEED**
THE CABLE IS INSTALLED ON THE H1B (UPPER) BUSHING AND AN ELBOW-TYPE METAL OXIDE ARRESTOR IS PLACED ON THE H1A (LOWER) BUSHING. THE PRIMARY CABLE NEUTRAL AND THE ARRESTOR LEAD ARE THEN BOTH CRIMPED TO TRANSFORMER GROUND. THE CABLE BEING INSTALLED ON THE H1B (UPPER) BUSHING WILL ASSIST WITH INSTALLATION DUE TO THE CABLE BEING MORE MANUVERABLE IN THIS POSITION.
2. **LOOP FEED**
THE NORMAL LINE SIDE (INCOMING) CABLE IS INSTALLED ON THE H1A (LOWER) BUSHING AND THE NORMAL LOAD SIDE (OUTGOING) CABLE IS INSTALLED ON THE H1B (UPPER) BUSHING. BOTH PRIMARY CABLE NEUTRALS ARE THEN CRIMPED TO THE TRANSFORMER GROUND.

<i>SaskPower</i> - DISTRIBUTION STANDARDS				
APPROVAL	DESIGN CHK	DRN. QS	GENERAL INFORMATION	
L.MOEN	Q.SUN	CHKD.		
		2018-03-05		
DATE OF ISSUE: 2018-06-07		DRAWING NO: B-08-00	SHEET 1 of 2	REV. E

3. LOOP FEED OPEN POINT

IF A TRANSFORMER IS TO BE USED AS A "NORMAL OPEN" POINT IN A LOOPED (ALTERNATE FEED) SYSTEM, BOTH CABLES MUST BE PROTECTED FROM OVERVOLTAGE WITH ELBOW-TYPE ARRESTERS.

A FEED-THROUGH BUSHING IS TO BE INSTALLED IN THE PARKING STAND OF THE TRANSFORMER. THE CABLE SUPPLYING THE TRANSFORMER IS PLACED ON THE H1A (LOWER) BUSHING, WITH ITS CORRESPONDING ELBOW-TYPE ARRESTER PLACED ON THE H1B (UPPER) BUSHING. THE OPEN ENDED CABLE IS PLACED ON THE RIGHT SIDE OF THE FEED-THROUGH BUSHING, WITH ITS CORRESPONDING ELBOW-TYPE ARRESTER PLACED ON THE LEFT SIDE OF THE FEED-THROUGH. THE PRIMARY CABLE NEUTRALS ARE THEN CRIMPED TO THE TRANSFORMER GROUND. THE ARRESTER GROUND LEADS ARE ALSO CONNECTED TO THE TRANSFORMER GROUND.

E. THREE PHASE PRIMARY CABLE CONNECTIONS

ALL URBAN THREE-PHASE PADMOUNT TRANSFORMERS SHALL ULTIMATELY HAVE LOOPED SUPPLY TO MINIMIZE THE LENGTH OF CUSTOMER OUTAGES DUE TO CABLE FAILURES. THIS LOOPED SUPPLY CONSISTS OF TWO SETS OF THREE-PHASE CABLES, TERMINATED AT THE TRANSFORMER. THESE SETS OF CABLES MAY BE FED FROM DIFFERENT OVERHEAD OR UNDERGROUND SOURCES.

UNDERGROUND PRIMARY MAY BE INSTALLED AT THE REQUEST OF THE CUSTOMER IN ACCORDANCE WITH BUSINESS POLICY. ADVANTAGES OF A LOOPED PRIMARY FEED SHOULD BE POINTED OUT TO THE CUSTOMER.

EACH THREE-PHASE CIRCUIT MUST BE PHYSICALLY SEPARATED.

THIS MAY BE DONE BY;

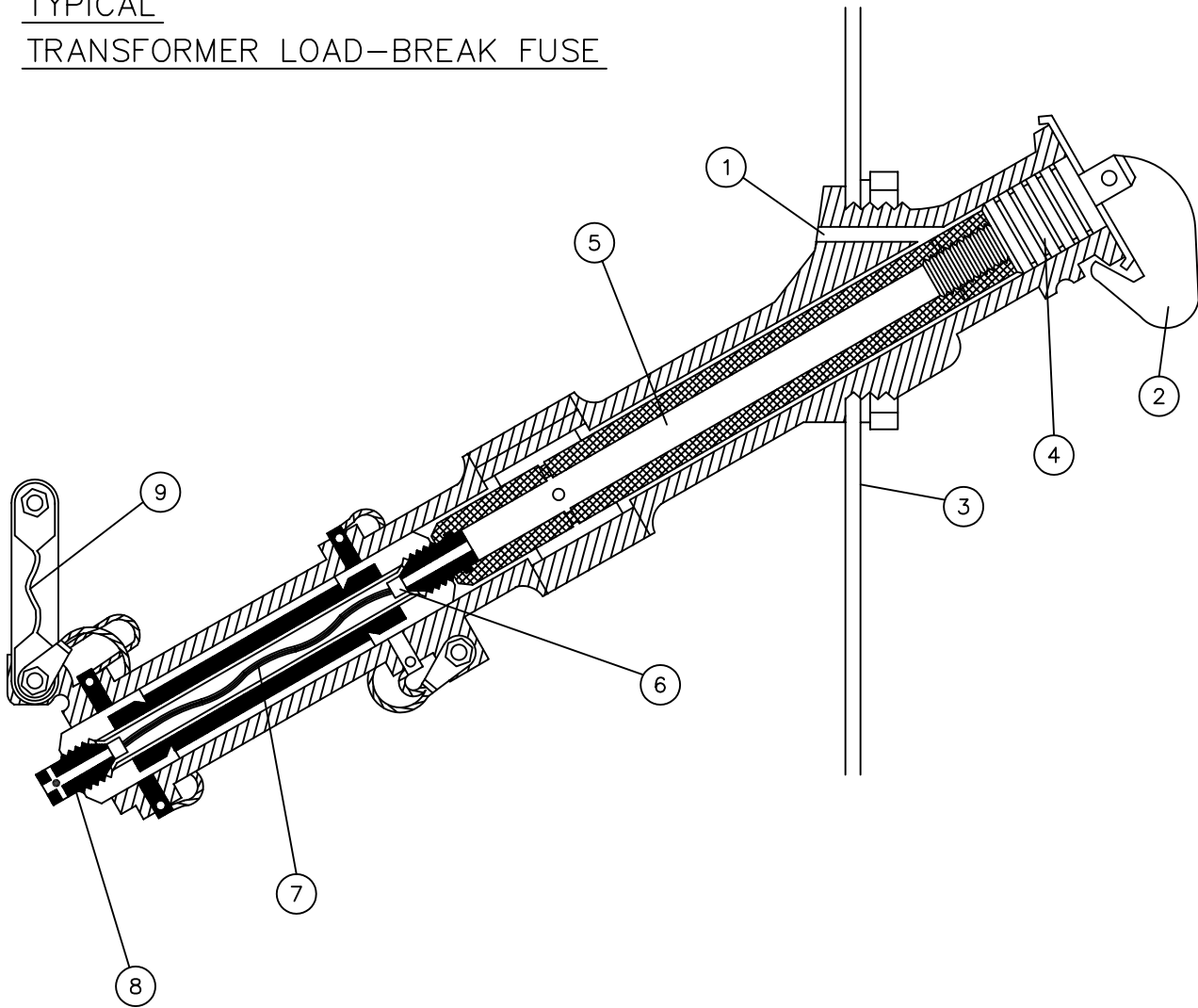
1. INSTALLING THE CABLE IN SEPARATE TRENCHES.
2. INSTALLING THE CABLE IN THE SAME TRENCH, BUT HAVE ONE CABLE IN FRE DUCT
3. INSTALLING THE CABLE IN THE SAME TRENCH WITH AT LEAST 300 MILLIMETRES OF SOIL SEPARATING THE OTHER CABLE HORIZONTALLY OR VERTICALLY.

WHERE BOTH SIDES OF THE LOOP ARE PHYSICALLY PARALLEL THEY MUST BE KEPT SEPARATED BY ONE OF THE METHODS DETAILED IN B-14-70.

SaskPower - DISTRIBUTION STANDARDS

DRN. <i>R</i>	DESIGN CHK.	SAFETY APP.	APPROVAL	GENERAL INFORMATION	
CHKD. <i>FTK</i>					
DATE 87-04-01	DATE	DATE	DATE		
DATE OF ISSUE 87-12-01			DRAWING NO. B-08-00	SHEET 2 of 2	REV. A

TYPICAL
TRANSFORMER LOAD-BREAK FUSE



MATERIAL

1. PRESSURE RELIEF VENT.
2. SHOTGUN STICK OPERATED HANDLE.
3. TRANSFORMER TANK.
4. TUBE SEAL.
5. FUSE CARTRIDGE EXPANSION CHAMBER.
6. FUSE CARTIDGE.
7. REPLACEABLE FUSE ELEMENT.
8. SCREW-IN PLUG.
9. ISOLATION LINK (NON-REMOVABLE).

SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

SASKATCHEWAN POWER CORP. – DISTRIBUTION ENGINEERING STANDARDS

DRN. <i>DK</i>	DESIGN CHK.	SAFETY APP.	APPROVAL	FUSE LOAD-BREAK, TYPICAL
CHKD. <i>FTK</i>				
DATE 87-03-30	DATE	DATE	DATE	
DATE OF ISSUE 87-06-01	DRAWING NO. B-08-05		SHEET 1 of 1	REV. 0

1Ø LIVE-FRONT LOAD-BREAK TRANSFORMERS				
TRANSFORMER		FUSE TYPE	FUSE SIZE	SPC CODE
PRIMARY VOLTAGE	KVA			
24940 Grd Y /14400 V	25	SILVER SAND 15.5 KV FUSE TYPE NX WITH ARC STRANGLER	4.5A	7 53 64
	37.5		4.5A	7 53 64
	50		6A	7 53 66
	75		10A	7 53 70
	100		12A	7 53 71
	167		20A	7 53 73

**1Ø DEAD-FRONT LOAD-BREAK TRANSFORMERS
WITH AND WITHOUT CURRENT LIMITING FUSE**

TRANSFORMER		BAY-O-NET FUSE				CURRENT LIMITING FUSE (NON-SERVICEABLE)	
PRIMARY VOLTAGE	KVA	CATALOG NO.	FUSE SIZE	SPC CODE	FUSE TYPE (SEE NOTE 1)	CATALOG NO.	FUSE SIZE
24940 Grd Y /14400 V	7.5	4000 358C 03	3A	7 55 03	DUAL	N/A	N/A
	15	4000 358C 03	3A	7 55 03	DUAL	CBUC15030C100**	30A**
	25	4000 358C 03	3A	7 55 03	DUAL	CBUC15030C100**	30A**
	50	4000 358C 05	8A	7 55 08	DUAL	CBUC15030C100	30A
	75	4000 358C 05	8A	7 55 08	DUAL	CBUC15080C100	80A
	100	4000 358C 08	15A	7 55 15	DUAL	CBUC15080C100	80A
	167	4000 358C 10	25A	7 55 25	DUAL	CBUC15125C100	125A
4160 Grd Y /2400 V	25	4000 358C 10	25A	7 55 25	DUAL	CBUC08125C100	125A
	37.5	4000 358C 10	25A	7 55 25	DUAL	CBUC08150C100	150A
	50	4000 353C 12	40A	7 56 40	CURRENT	CBUC08150D100	150A
	100	4000 353C 14	65A	7 56 65	CURRENT	CBUC08165D100	165A
	150	4000 353C 17	140A	7 56 95	CURRENT	CBUC08150D100	300A*

NOTE:

* TWO FUSES IN PARALLEL

** OLD STYLE 1678XX TRANSFORMERS (SERIAL NUMBERS N12393-XX, N12460-XX, N14096-XX & N14097-XX) DO NOT INCLUDE A CURRENT LIMITING FUSE. NEW STYLE 1678XX TRANSFORMERS INCLUDE A CURRENT LIMITING FUSE HOWEVER THE PRESENCE OF THE CURRENT LIMITING FUSE CAN BE CONFIRMED BY REFERING TO THE NAMEPLATE PRIOR TO INSTALLATION. ALL OTHER OLD STYLE 15KVA TRANSFORMERS DO NOT INCLUDE A CURRENT LIMITING FUSE

1. THE 353C SERIES OF BAY-O-NET FUSE LINKS ARE CURRENT SENSING. THE 358C SERIES OF BAY-O-NET FUSE LINKS ARE DUAL SENSING. DUAL SENSING LINKS SENSE NOT ONLY SECONDARY FAULTS, EXCESSIVE LOAD CURRENTS, AND TRANSFORMER FAULTS, BUT ALSO TRANSFORMER FLUID TEMPERATURE.

2. THIS LIST IS THE MOST RECENT SET OF FUSES TO BE INSTALLED IN OUR PADMOUNT TRANSFORMERS. FOR OLDER TRANSFORMERS, THIS LIST MAY NOT AGREE WITH WHAT IS CURRENTLY INSTALLED. DUE TO ARC FLASH MITIGATION; USE THE RECOMMENDED REPLACEMENT FUSES AS PER THESE TABLES.

SaskPower - DISTRIBUTION STANDARDS				
APPROVAL	DESIGN CHK	DRN. DCD	FUSING 1Ø PADMOUNT TRANSFORMER	
		CHKD.		
L.MOEN	D.DONAIS	2018-01-15		
DATE OF ISSUE: 2018-02-20		DRAWING NO: B-08-10		SHEET 1 of 1
				REV. C

**3Ø DEAD-FRONT LOAD-BREAK TRANSFORMERS
WITH CURRENT LIMITING FUSE**

TRANSFORMER		RTE BAY-O-NET FUSE				RTE ELSP CL FUSE	
PRIMARY VOLTAGE	KVA	CATALOG NO.	FUSE SIZE	SPC CODE	FUSE TYPE	CATALOG NO.	FUSE SIZE
24940 Grd Y/ 14400 V	3000	4000 353C 17	140A	7 56 95	CURRENT	CBUC15150D100	300A*
	2500	4000 353C 16	100A	7 56 90	CURRENT	CBUC15150D100	300A*
	2000	4000 353C 16	100A	7 56 90	CURRENT	CBUC15125C100	250A*
	1500	4000 353C 14	65A	7 56 65	CURRENT	CBUC15150D100	150A
	1000	4000 353C 12	40A	7 56 40	CURRENT	CBUC15100C100	100A
	750	4000 353C 10	25A	7 56 25	CURRENT	CBUC15100C100	100A
	500	4000 358C 08	15A	7 55 15	DUAL	CBUC15080C100	80A
	300	4000 358C 08	15A	7 55 15	DUAL	CBUC15080C100	80A
	225	4000 358C 05	8A	7 55 08	DUAL	CBUC15030C100	30A
	150	4000 358C 05	8A	7 55 08	DUAL	CBUC15030C100	30A
	112.5	4000 358C 05	8A	7 55 08	DUAL	CBUC15030C100	30A
	75	4000 358C 03	3A	7 55 03	DUAL	CBUC15030C100	30A
	45	4000 358C 03	3A	7 55 03	DUAL	CBUC15030C100	30A
14400 Grd Y/ 8320 V	2500	4038361C05CB	125A	7 55 70	***	CBUC08150D100	300A*
	2000	4000 353C 17	140A	7 56 95	CURRENT	CBUC08150D100	300A*
	1000	4000 353C 14	65A	7 56 65	CURRENT	CBUC08150D100	150A
	750	4000 353C 14	65A	7 56 65	CURRENT	CBUC08150D100	150A
	500	4000 358C 10	25A	7 55 25	DUAL	CBUC08150D100	150A
	300	4000 358C 08	15A	7 55 15	DUAL	CBUC08125C100	125A
	225	4000 358C 08	15A	7 55 15	DUAL	CBUC08080C100	80A
	150	4000 358C 08	15A	7 55 15	DUAL	CBUC08080C100	80A
	112.5	4000 358C 05	8A	7 55 08	DUAL	CBUC08030C100	30A
	75	4000 358C 05	8A	7 55 08	DUAL	CBUC08030C100	30A
45	4000 358C 03	3A	7 55 03	DUAL	CBUC08030C100	30A	
4160 Grd Y /2400 V	1000	4000 358C 18	140A	7 55 80	DUAL	3001861 A07M	**
	750	4000 358C 18	140A	7 55 80	DUAL	3001861 A07M	**
	500	4000 353C 17	140A	7 56 95	CURRENT	CBUC08150D100	300A*
	300	4000 353C 14	65A	7 56 65	CURRENT	CBUC08165D100	165A
	225	4000 353C 14	65A	7 56 65	CURRENT	CBUC08165D100	165A
	150	4000 358C 12	50A	7 55 50	DUAL	CBUC08165D100	165A
	112.5	4000 358C 10	25A	7 55 25	DUAL	CBUC08125C100	125A
	75	4000 358C 10	25A	7 55 25	DUAL	CBUC08100C100	100A
	45	4000 358C 08	15A	7 55 15	DUAL	CBUC08080C100	80A

NOTE: * - 2 FUSES IN PARALLEL, ** - ISOLATION LINK, * - HIGH AMPERE OVERLOAD FUSE**

SaskPower - DISTRIBUTION STANDARDS

APPROVAL L. MOEN	DESIGN CHK D. DONAIS	DRN. DCD CHKD.	FUSING 3Ø PADMOUNT TRANSFORMER
		2017-06-27	
DATE OF ISSUE: 2017/08/31		DRAWING NO: B-08-11	

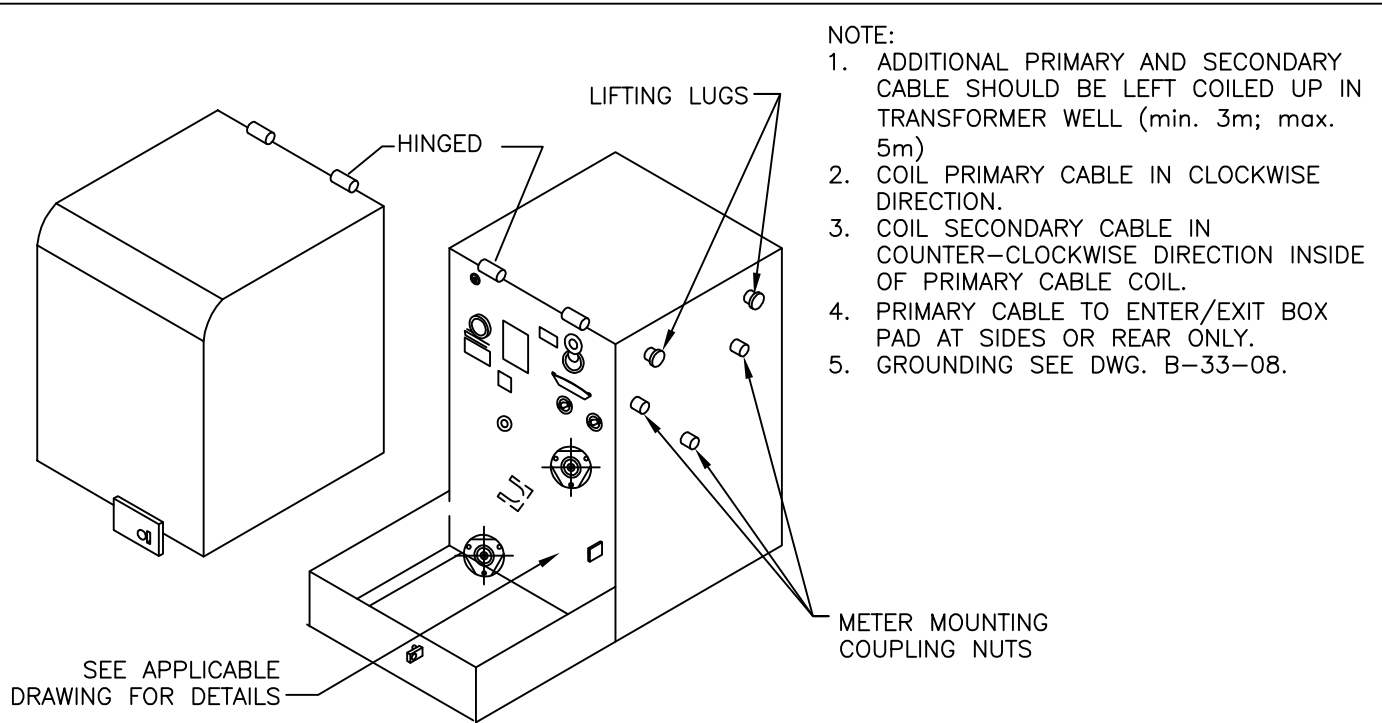
**3Ø DEAD-FRONT DEAD-BREAK TRANSFORMERS
WITHOUT CURRENT LIMITING FUSE**

TRANSFORMER		RTE BAY-O-NET FUSE				RTE ELSP CL FUSE	
PRIMARY VOLTAGE	KVA	CATALOG NO.	FUSE SIZE	SPC CODE	FUSE TYPE	CATALOG NO.	FUSE SIZE
24940 Grd Y/ 14400V	1000	4000 358C 10	25A	7 55 25	DUAL	N/A	N/A
	750	4000 358C 10	25A	7 55 25	DUAL	N/A	N/A
14400 Grd Y/ 8320 V	1000	4000 358C 12	50A	7 55 50	DUAL	N/A	N/A
	750	4000 358C 12	50A	7 55 50	DUAL	N/A	N/A
4160 Grd Y/ 2400 V	1000	4000 358C 18	140A	7 55 80	DUAL	N/A	N/A
	750	4000 358C 18	140A	7 55 80	DUAL	N/A	N/A
	500	4000 358C 14	65A	7 55 65	DUAL	N/A	N/A
	300	4000 358C 12	50A	7 55 50	DUAL	N/A	N/A
	225	4000 358C 12	50A	7 55 50	DUAL	N/A	N/A

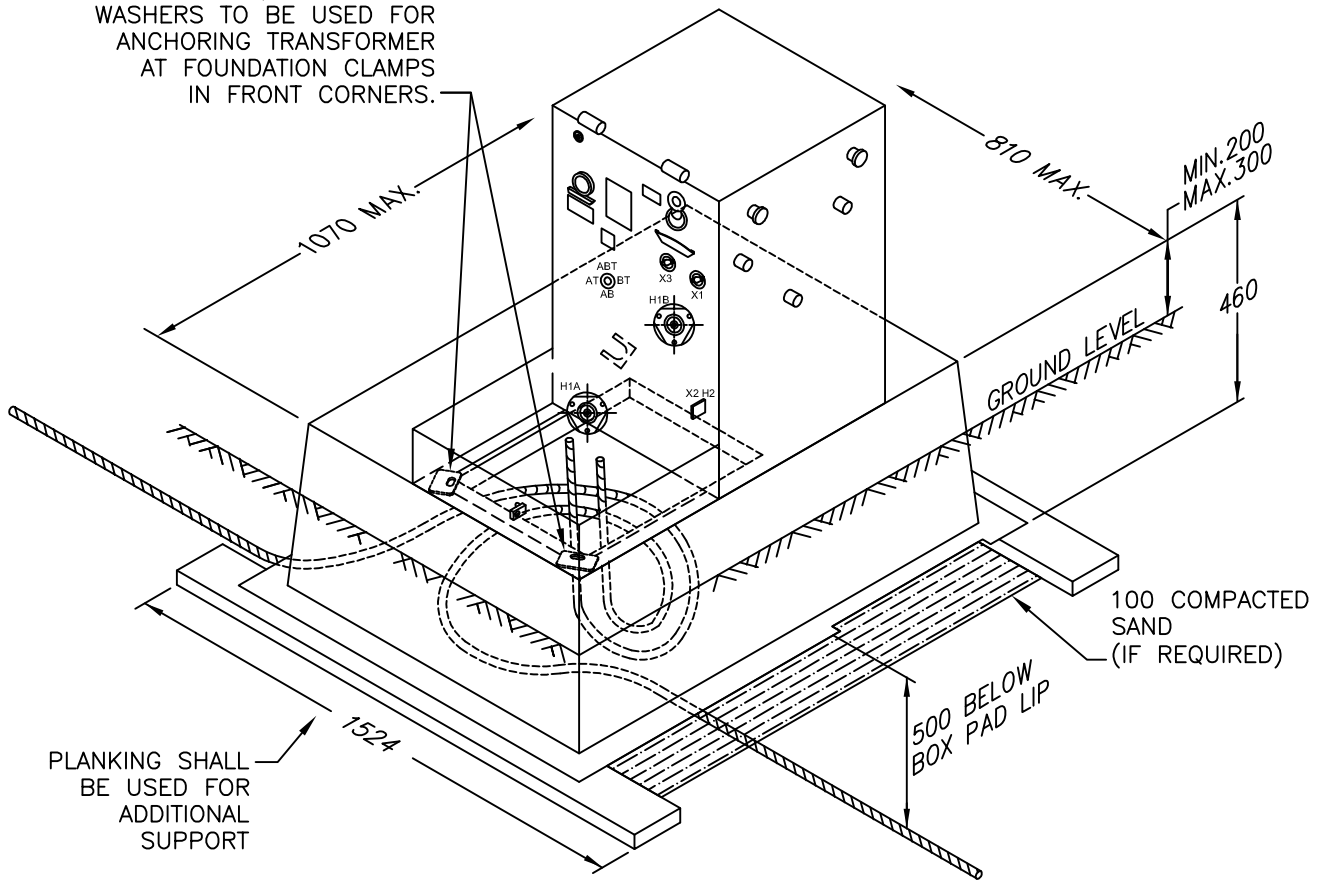
NOTE:

- THE 353C SERIES OF BAY-O-NET FUSE LINKS ARE CURRENT SENSING.
- THE 358C SERIES OF BAY-O-NET FUSE LINKS ARE DUAL SENSING. DUAL SENSING LINKS SENSE NOT ONLY SECONDARY FAULTS, EXCESSIVE LOAD CURRENTS, AND TRANSFORMER FAULTS, BUT ALSO TRANSFORMER FLUID TEMPERATURE.
- THIS LIST IS THE MOST RECENT SET OF FUSES TO BE INSTALLED IN OUR PADMOUNT TRANSFORMERS. FOR OLDER TRANSFORMERS, THIS LIST MAY NOT AGREE WITH WHAT IS CURRENTLY INSTALLED. DUE TO ARC FLASH MITIGATION; USE THE RECOMMENDED REPLACEMENT FUSES AS PER THESE TABLES. WHEN REPLACING A BLOWN FUSE, ALL FUSES MUST BE REPLACED WITH THE NEW SIZE WHERE APPLICABLE.

SaskPower - DISTRIBUTION STANDARDS			
APPROVAL	DESIGN CHK	DRN. DCD	FUSING 3Ø PADMOUNT TRANSFORMER
L. MOEN	D. DONAIS	CHKD.	
		2017-06-27	
DATE OF ISSUE: 2017/08/31		DRAWING NO: B-08-11	SHEET 2 of 2
			REV. D



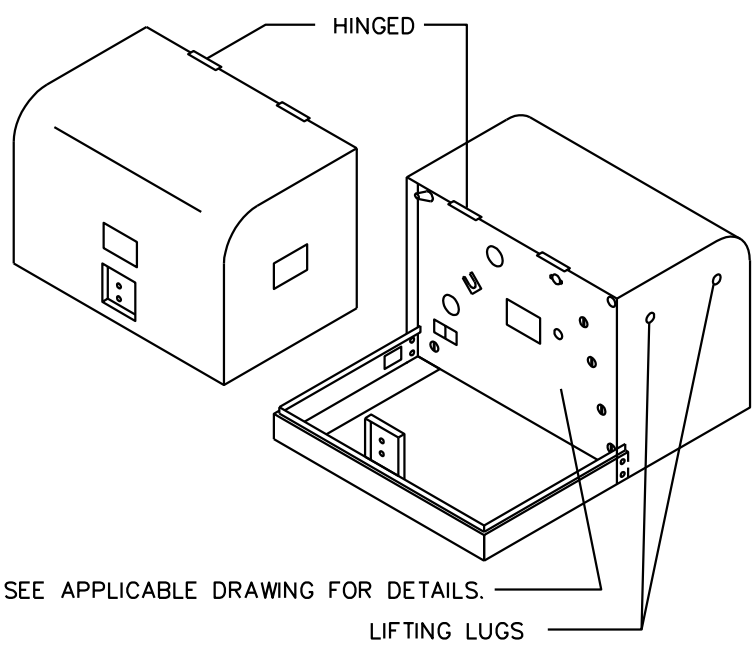
LIFTING BOLTS C/W NUTS AND WASHERS TO BE USED FOR ANCHORING TRANSFORMER AT FOUNDATION CLAMPS IN FRONT CORNERS.



SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

SaskPower – DISTRIBUTION STANDARDS				
APPROVAL L.MOEN	DESIGN CHK. D.DONAIS	DRN. C.BAUTISTA CHKD.	RUD 1Ø 78 SERIES PADMOUNT INSTALLATION GENERAL	
		2018-05-18		
DATE OF ISSUE	2018-06-07	DRAWING NO.	B-08-29	SHEET 1 of 1
				REV. C

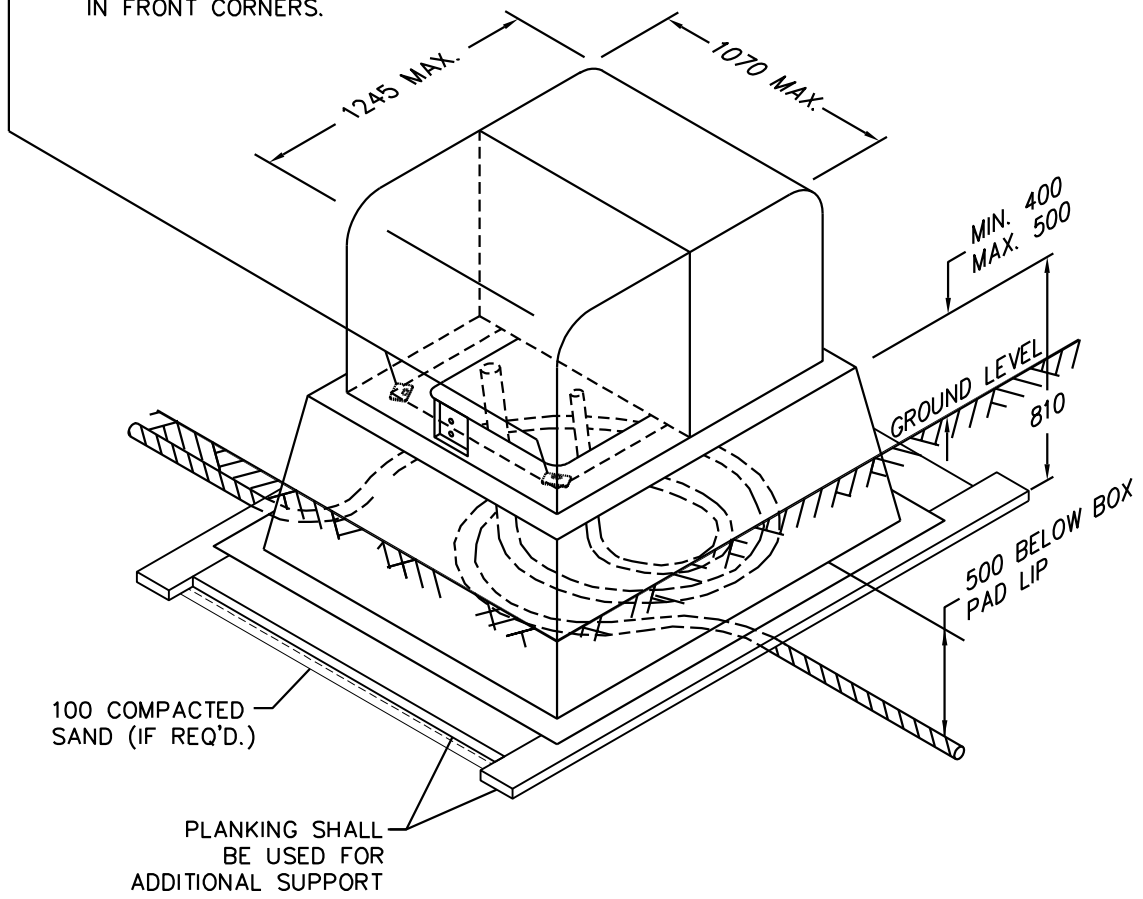
2016/02/05



SEE APPLICABLE DRAWING FOR DETAILS.

- NOTE:
1. ADDITIONAL PRIMARY AND SECONDARY CABLE SHOULD BE LEFT COILED UP IN WELL (min.3m; max.5m)
 2. COIL PRIMARY CABLE IN CLOCKWISE DIRECTION.
 3. COIL SECONDARY CABLE IN COUNTER-CLOCKWISE DIRECTION INSIDE OF PRIMARY CABLE COIL.
 4. PRIMARY CABLE TO ENTER/EXIT BOX PAD AT SIDES OR REAR. IN URBAN AREAS WHERE THIS IS NOT PRACTICAL CABLE MAY ENTER /EXIT FROM THE FRONT.
 5. USE TYPE 'J' GROUND GRID (SEE B-33-08).

LIFTING BOLTS C/W NUTS AND WASHERS TO BE USED FOR ANCHORING TRANSFORMER AT FOUNDATION CLAMPS IN FRONT CORNERS.



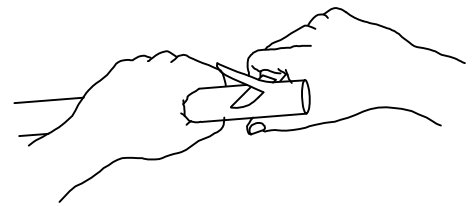
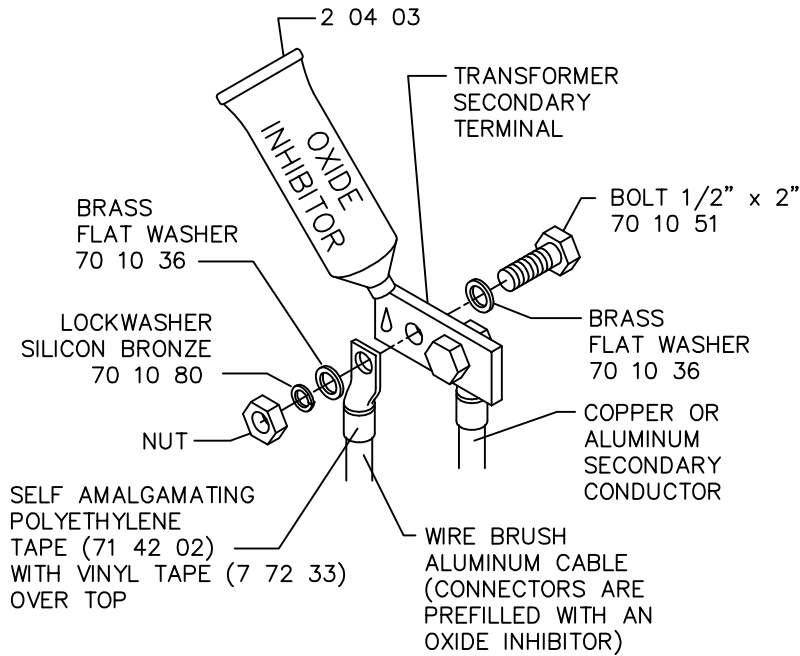
SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

APPROVED FOR CONSTRUCTION

SaskPower – DISTRIBUTION STANDARDS

APPROVAL L.MOEN	DESIGN CHK. D.DONAIS	DRN.C.BAUTISTA CHKD. 2018-08-30	RURAL & URBAN 1Ø PADMOUNT INSTALLATION, GENERAL
DATE OF ISSUE	2018-09-13	DRAWING NO. B-08-30	
		SHEET 1 of 1	REV. D

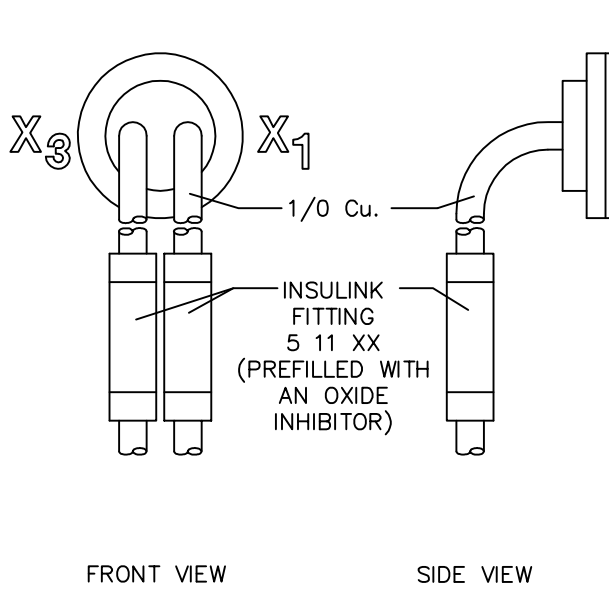
A. TRANSFORMER WITH SPADES



DO NOT RING CONDUCTOR WHEN STRIPPING INSULATION ON SECONDARY ALWAYS PARE OR PENCIL INSULATION AS SHOWN.

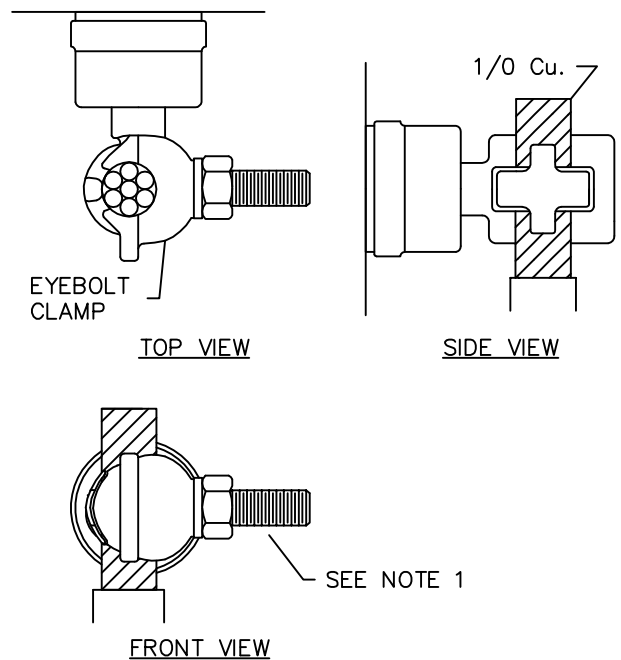
METHOD OF PREPARING CONDUCTOR ENDS FOR COMPRESSION LUG

B. TRANSFORMER WITH INSULINKS



C. TRANSFORMER WITH EYEBOLT CLAMPS

-USE OXIDE INHIBITOR BEFORE TIGHTENING CLAMP.



NOTES:

1. 1678XX SERIES TRANSFORMERS WITH EYEBOLT CLAMPS ARE DESIGNED AND MANUFACTURED TO ACCEPT ONE RUN OF 1/0 SECONDARY AND INTENDED TO SERVICE ONE CUSTOMER. FOR LARGER SECONDARY CONDUCTOR SIZES (GREATER THAN 1/0), OR MULTIPLE SERVICE CONNECTIONS, A 1672XX SERIES TRANSFORMER SHALL BE INSTALLED

SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

SaskPower – DISTRIBUTION STANDARDS

APPROVAL L.MOEN	DESIGN CHK. D.DONAIS	DRN. C.BAUTISTA CHKD. 2018-05-28
DATE OF ISSUE	2018-06-07	DRAWING NO. B-08-31

1Ø TRANSFORMER
SECONDARY CONNECTION

SHEET 1 of 1

REV. D

BILL OF MATERIAL

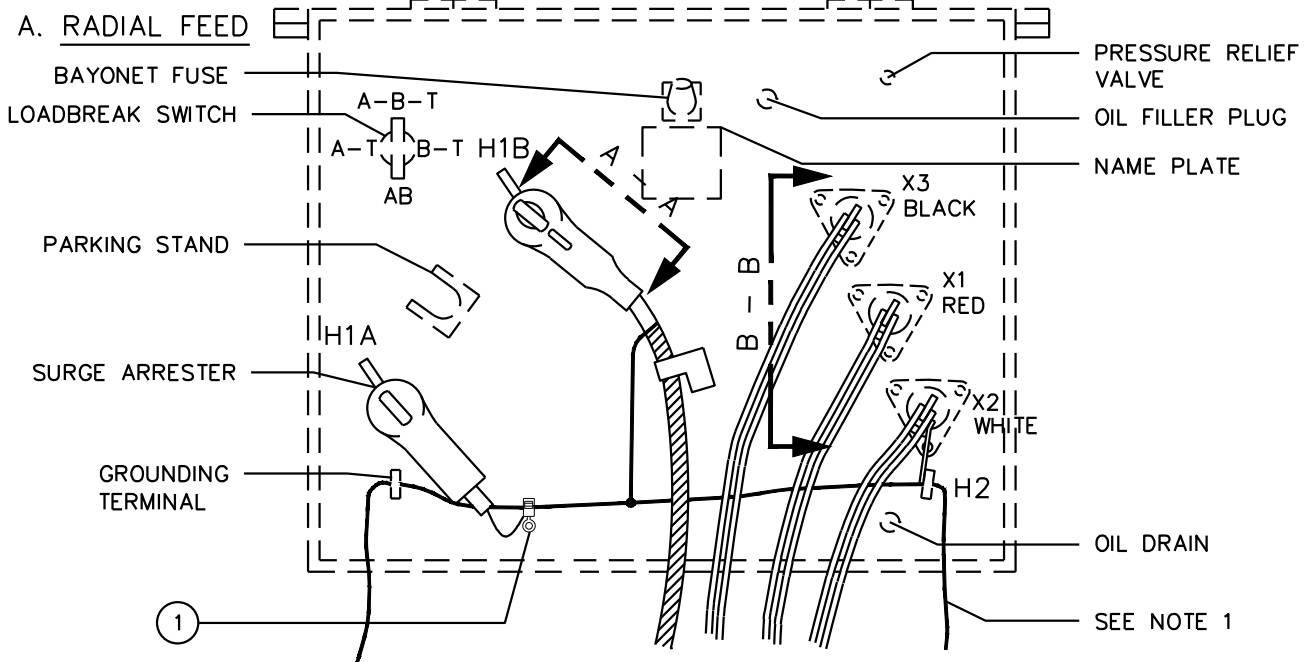
ITEM NO.	CODE NO.	QUANTITY			DESCRIPTION
		A	B	C	
1	2 02 70	1	--	2	CLAMP-HOTLINE
2	2 04 03	1/10	1/10	1/10	COMPOUND - OXIDE INHIBITOR
3	2 65 XX	6	6	6	HYLUG
4	5 06 04	1	1	1	FIBERGLASS BOX PAD - 32" HIGH
5	5 06 96	0	1	1	FAULT INDICATOR (SEE NOTE 1)
6	5 12 08	1	2	2	CRIMPIT - CU YC2C4
7	5 79 40	0	0	1	FEED THROUGH-15.2KV, LINE-GROUND, 200AMP
8	5 80 32	1	2	2	ELBOW CONNECTOR - LOADBREAK
9	6 04 15	1	0	2	ARRESTER - ELBOW
10	7 66 02	1	1	0	PADLOCK - ONE TIME USE
11	7 66 00	0	0	1	PADLOCK - FOR N/O
12	9 01 25	2	2	2	PLANKING (2" x 6" x 10') - IF REQUIRED
13	70 10 36	6	6	6	WASHER - ROUND - BRASS - 1/2" HOLE
14	70 10 51	3	3	3	BOLT 1/2" x 2" - SILICON BRONZE
15	70 10 80	3	3	3	LOCKWASHER - SPRING - 1/2" SILICON
16	71 35 00	1	2	2	KIT - CABLE PREPARATION
17	71 42 02	1/4	1/4	1/4	TAPE SAPT INSULATING (ROLL)
18	05 384 008	1	2	2	TAG - CABLE MARKER YELLOW
19	05 638 2XX	7	7	7	NUMBERS - DECAL 1 1/2"
20	05 638 4XX	1	1	1	LETTER - DECAL 1 1/2"

NOTE:

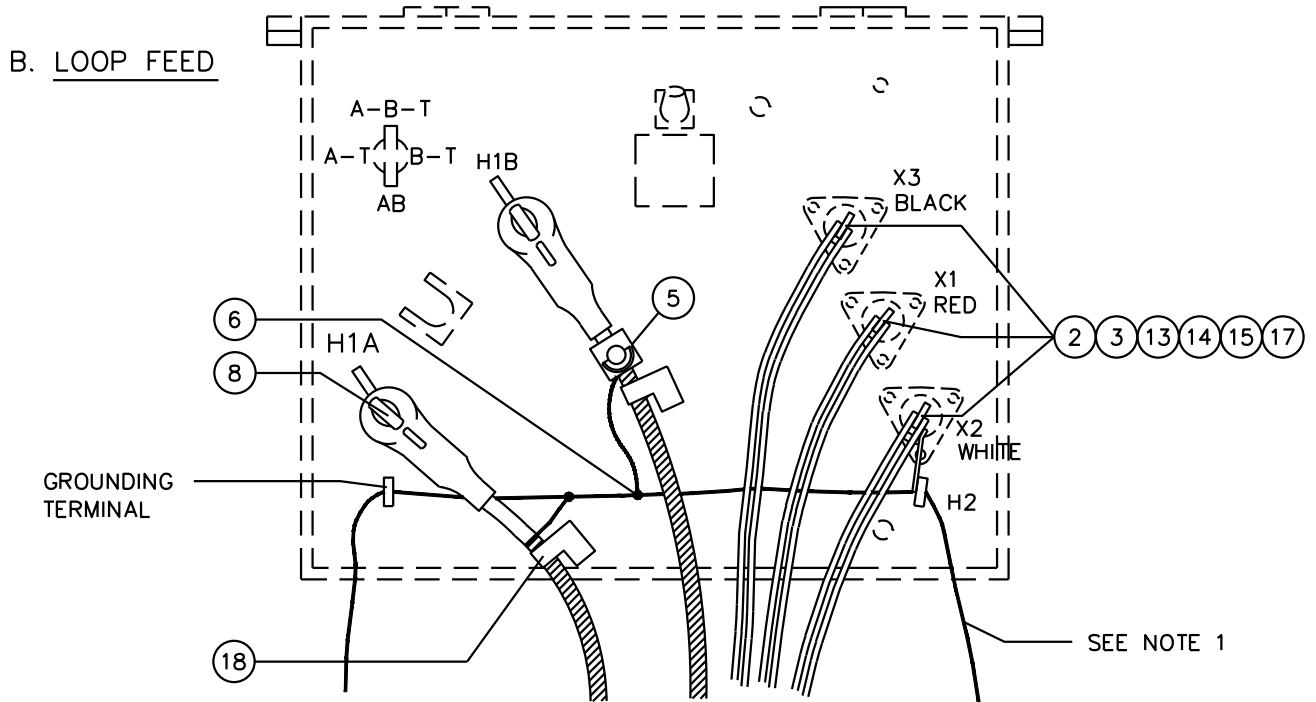
1. FAULT INDICATOR TO BE INSTALLED ON EVERY TRANSFORMER IN THE LOOP.
2. COLUMN A IS FOR RADIAL FEED. COLUMN B IS FOR LOOP FEED. COLUMN C IS FOR LOOP FEED WITH OPEN POINT.
3. THE 16 72 XX SERIES TRANSFORMERS ARE TO BE USED WHERE THERE ARE TWO CONSUMERS.

SaskPower - DISTRIBUTION STANDARDS

APPROVAL	DESIGN CHK	DRN. ARU	RURAL 1Ø 72 & 73 SERIES PADMOUNT TRANSFORMER
M. ERETH	A. UHREN	CHKD.	
		2014-06-06	
DATE OF ISSUE: 2014/11/17		DRAWING NO: B-08-32	



SUFFICIENT LENGTH FOR ELBOW OPERATION



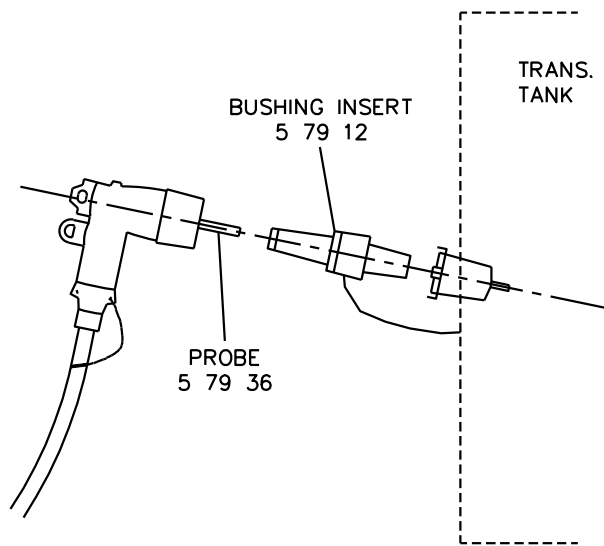
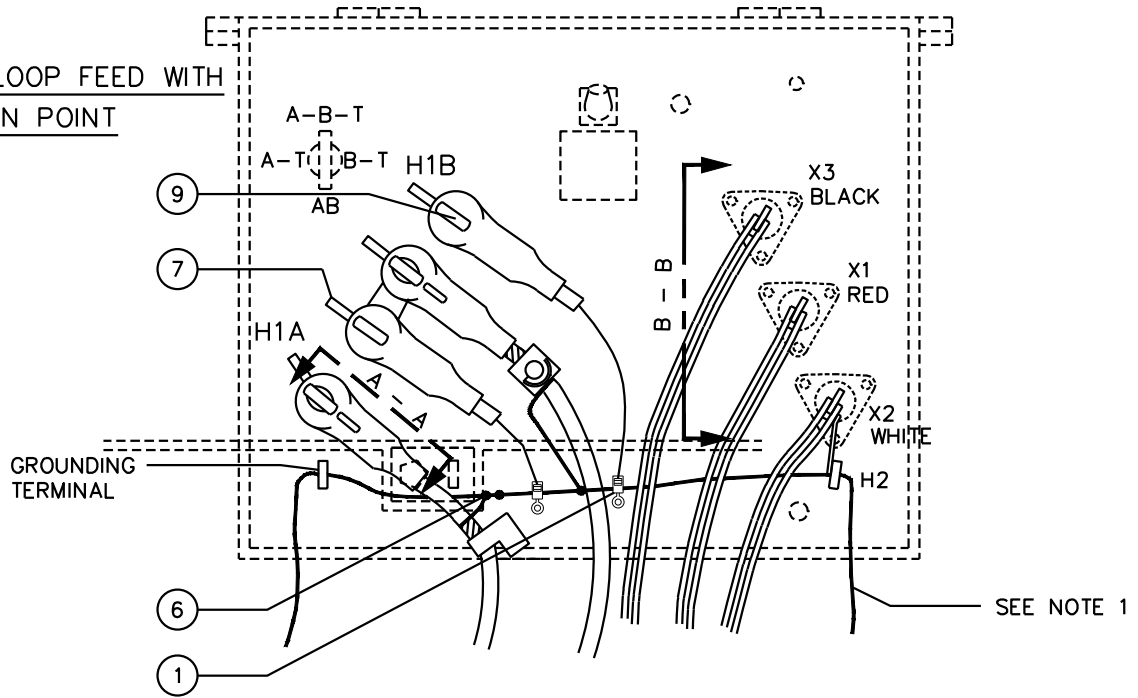
SEE SHEET 4 OF 4 FOR SECTION A - A, SECTION B - B, AND NOTES.

SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

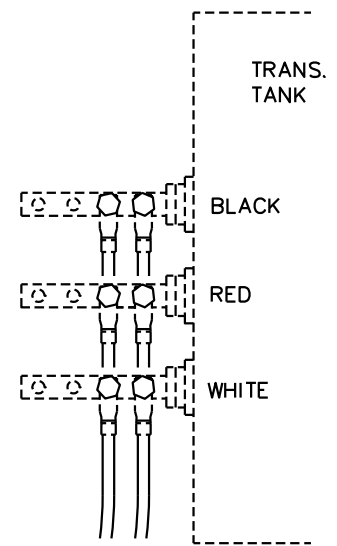
SaskPower - DISTRIBUTION STANDARDS

APPROVAL L.MOEN	DESIGN CHK. D.DONAIS	DRN. Y.HAO CHKD.	RURAL 1Ø 72 & 73 SERIES PADMOUNT TRANSFORMER	
		2016-01-20		
DATE OF ISSUE	2016/02/05	DRAWING NO. B-08-32	SHEET 2 of 4	REV. H

C. LOOP FEED WITH OPEN POINT



SECTION A-A
SEE NOTE 3



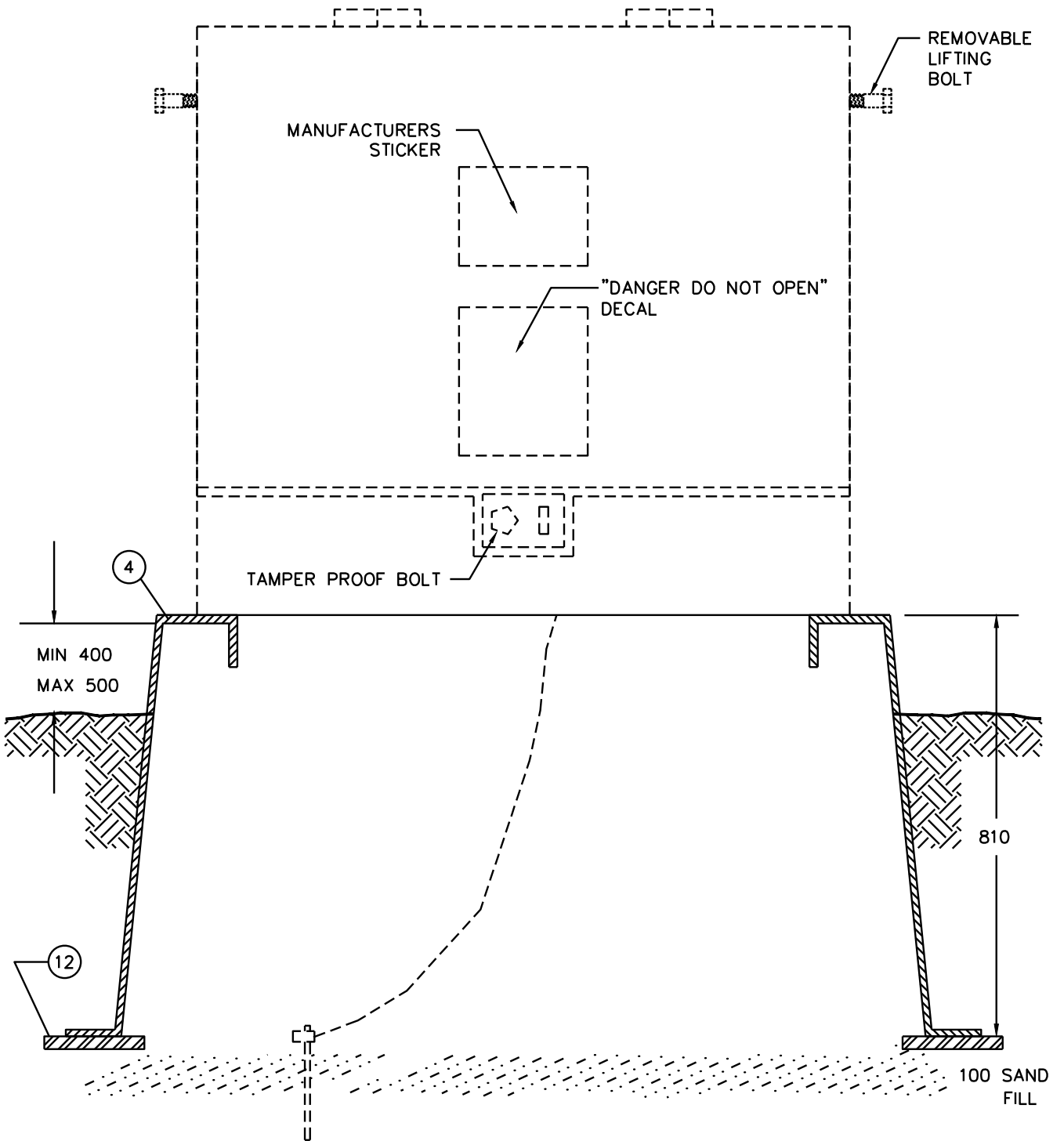
SECTION B-B
SEE NOTE 2

SEE SHEET 4 OF 4 FOR NOTES

SaskPower – DISTRIBUTION STANDARDS

APPROVAL L.MOEN	DESIGN CHK. D.DONAIS	DRN. Y.HAO CHKD.
DATE OF ISSUE 2016/02/05		2016-01-20
		DRAWING NO. B-08-32

RURAL 1Ø
72 & 73 SERIES
PADMOUNT TRANSFORMER



NOTE:

1. USE TYPE 'J' GROUND GRID (SEE B-33-08)
2. SECONDARY CONNECTIONS B-08-31.
3. CABLE ACCESSORIES SEE SECTION B-36.
4. DRAWING IS FIBREGLASS BOX INSTALLATION.

SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

SaskPower – DISTRIBUTION STANDARDS

APPROVAL M.ERETH	DESIGN CHK. A.UHREN	DRN. A.GATZKE CHKD. 2014-12-15	RURAL 1Ø 72 & 73 SERIES PADMOUNT TRANSFORMER
DATE OF ISSUE	2015/04/28	DRAWING NO. B-08-32	
		SHEET 4 of 4	REV. B

BILL OF MATERIAL

ITEM NO.	CODE NO.	QUANTITY			DESCRIPTION
		A	B	C	
1	1 12 02	1	1	1	BOLT – MACHINE – 1/2" x 2"
2	1 93 30	2	2	2	WASHER – ROUND – 9/16"
3	2 02 70	1	--	2	CLAMP – TAP – HOTLINE
4	2 04 03	0.4	0.4	0.4	COMPOUND – SPLICING – OXIDE INHIBITOR
5	2 65 94	1	1	1	COMPRESSION LUG – #4 SOL. OR STR.
6	5 06 02	1	1	1	FIBERGLASS BOX PAD – 18" HIGH
7	5 06 96	0	1	1	FAULT INDICATOR – 80AMP
8	5 12 08	1	2	2	CONNECTOR – CRIMPIT – CU YC2C4
9	5 79 40	0	0	1	FEED THROUGH – 15.2 KV, LINE-GROUND, 200AMP
10	5 80 32	1	2	2	ELBOW CONNECTOR – LOADBREAK
11	6 04 15	1	0	2	ARRESTER – ELBOW
12	7 66 01	1	1	0	PADLOCK – TAMPERPROOF
13	7 66 00	0	0	1	PADLOCK – FOR N/O
14	9 01 25	1	1	1	PLANKING – TIMBER – (2" x 6" x 10') – TREATED
15	71 35 00	1	2	2	KIT – CABLE PREPARATION
16	05 384 008	1	2	2	TAG – CABLE MARKER – YELLOW
17	05 638 2XX	7	7	7	NUMBERS – DECAL 1 1/2"
18	05 638 4XX	1	1	1	LETTERS – DECAL 1 1/2"

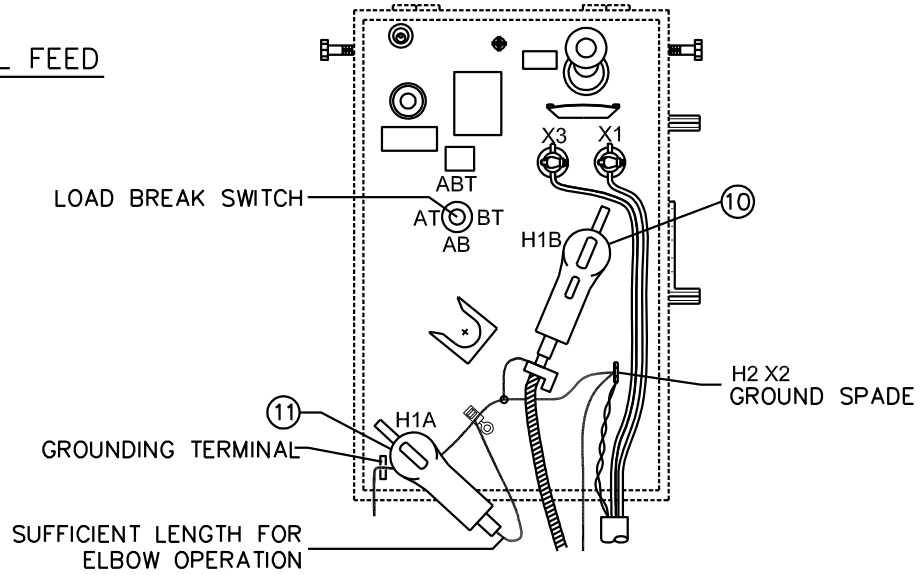
NOTE:

1. FAULT INDICATOR TO BE INSTALLED ON EVERY TRANSFORMER IN THE LOOP.
2. COLUMN A IS FOR RADIAL FEED. COLUMN B IS FOR LOOP FEED. COLUMN C IS FOR LOOP FEED WITH OPEN POINT.
3. LOCATE SIGNS AS PER B-30-25.
4. 1678XX SERIES TRANSFORMERS WITH EYEBOLT CLAMPS ARE DESIGNED AND MANUFACTURED TO ACCEPT ONLY ONE RUN OF 1/0 SECONDARY AND INTENDED TO SERVICE ONE CUSTOMER. FOR LARGER SECONDARY CONDUCTOR SIZES (GREATER THAN 1/0), OR MULTIPLE SERVICE CONNECTIONS, A 1672XX SERIES TRANSFORMER SHALL BE INSTALLED.

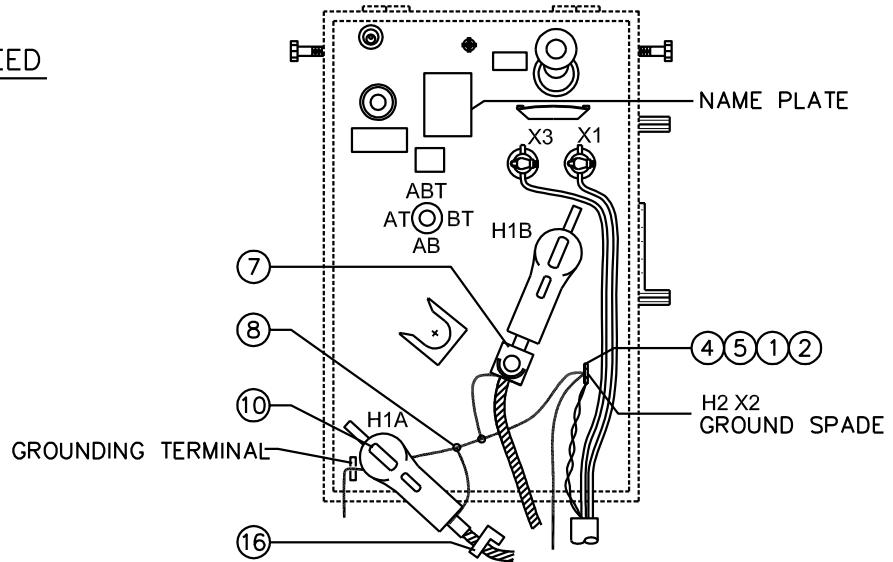
SaskPower - DISTRIBUTION STANDARDS

APPROVAL	DESIGN CHK	DRN. DCD	RURAL 1Ø 78 SERIES PADMOUNT TRANSFORMER
L. MOEN	D. DONAIS	CHKD.	
		2018-05-28	
DATE OF ISSUE:	2018-06-07	DRAWING NO. B-08-33	SHEET 1 OF 3 REV. G

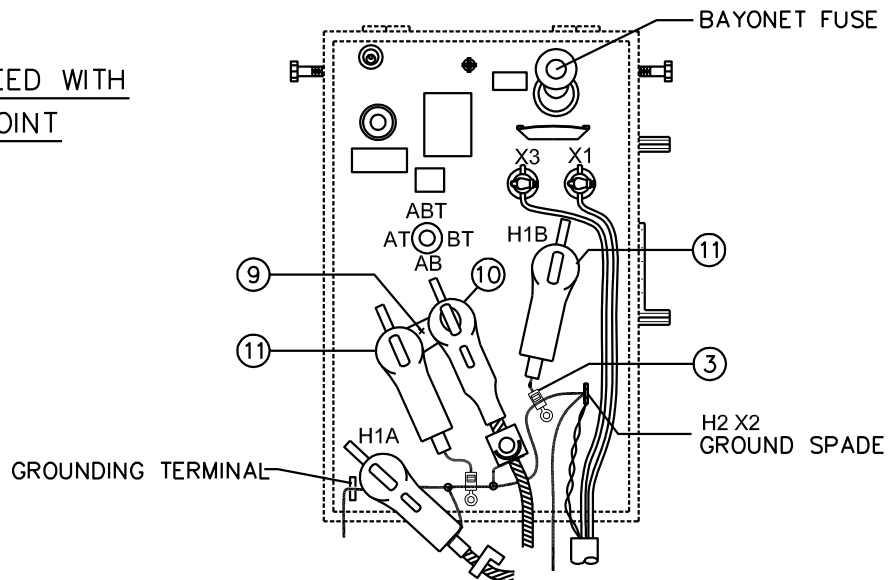
A. RADIAL FEED



B. LOOP FEED



C. LOOP FEED WITH OPEN POINT



SaskPower – DISTRIBUTION STANDARDS

APPROVAL L.MOEN	DESIGN CHK. D.DONAIS	DRN. C.BAUTISTA CHKD. 2018-05-28
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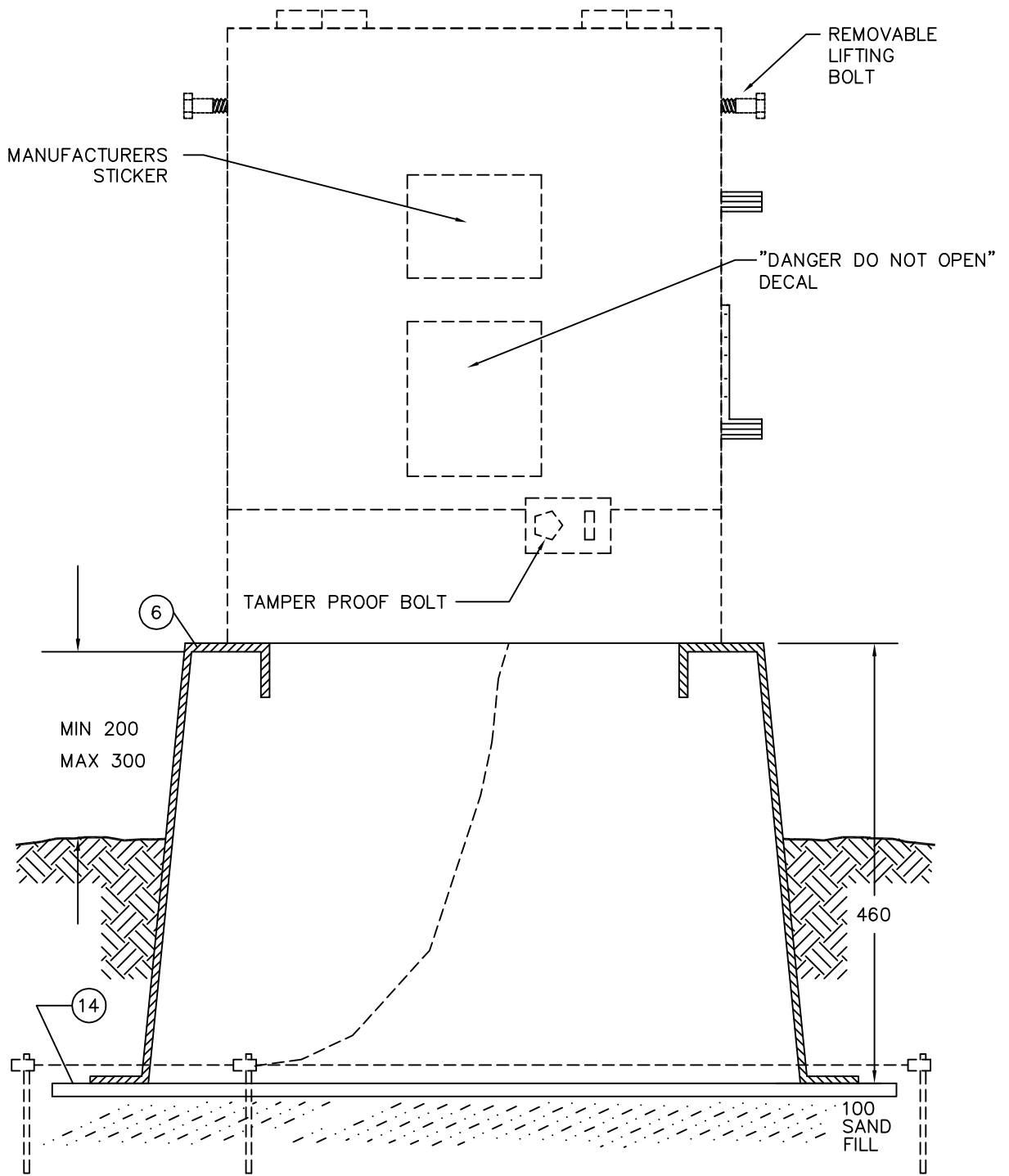
RURAL 1 ϕ
78 SERIES
PADMOUNT TRANSFORMER

DATE OF ISSUE 2018-06-07

DRAWING NO. B-08-33

SHEET 2 of 3

REV. 1



NOTES:

1. TYPE 'J' GROUND GRID. SEE B-33-08.
2. SECONDARY CONNECTIONS B-08-31.
3. CABLE ACCESSORIES SEE SECTION B-36.
4. DRAWING IS FIBREGLASS BOX INSTALLATION.
5. SEE B-08-29 FOR PLANKING DETAIL.

SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

SaskPower – DISTRIBUTION STANDARDS

APPROVAL L.MOEN	DESIGN CHK. D.DONAIS	DRN. C.BAUTISTA CHKD. 2018-05-22	RURAL 1Ø 78 SERIES PADMOUNT TRANSFORMER
DATE OF ISSUE 2018-06-07	DRAWING NO. B-08-33	SHEET 3 of 3	
			REV. C

BILL OF MATERIAL

ITEM NO.	CODE NO.	QUANTITY		DESCRIPTION
		A	B	
1	2 04 03	1/10	1/10	COMPOUND - OXIDE INHIBITOR
2	2 65 XX	6	6	HYLUG
3	2 02 70	1	-	CLAMP-HOTLINE
4	5 06 04	1	1	FIBERGLASS BOX PAD - 32" HIGH
5	5 06 94	-	1	FAULT INDICATOR-300 AMP-REMOTE INDICATOR
6	5 12 08	1	2	CRIMPIT - CU YC2C4
7	5 79 35	1	2	ELBOW CONNECTOR - LOADBREAK
8	6 04 15	1	0	ARRESTER - ELBOW
9	7 66 00	1	1	PADLOCK - FOR N/O
10	9 01 25	2	2	PLANKING (2" x 6" x 10')
11	70 10 36	6	6	WASHER - ROUND - BRASS - 1/2" HOLE
12	70 10 51	3	3	BOLT 1/2" x 2" - SILICON BRONZE
13	70 10 80	3	3	LOCKWASHER - SPRING - 1/2" SILICON
14	71 35 00	1	2	KIT - CABLE PREPARATION
15	71 42 02	1/4	1/4	TAPE SAPT INSULATING (ROLL)
16	05 384 008	1	2	TAG - CABLE MARKER YELLOW

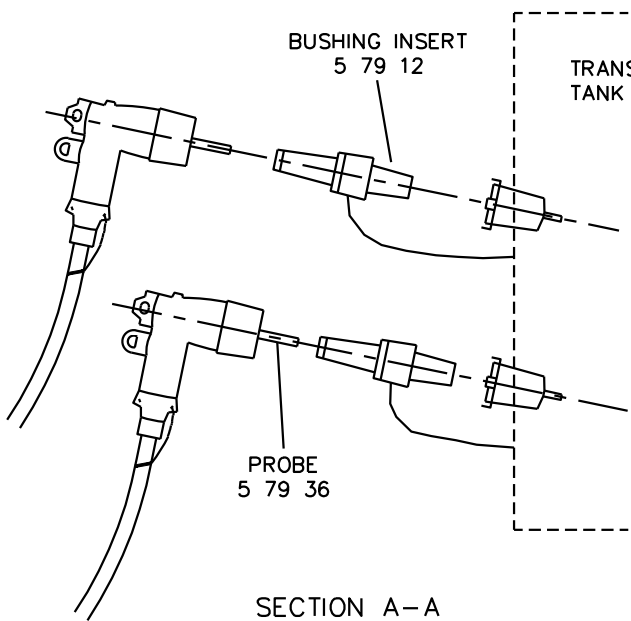
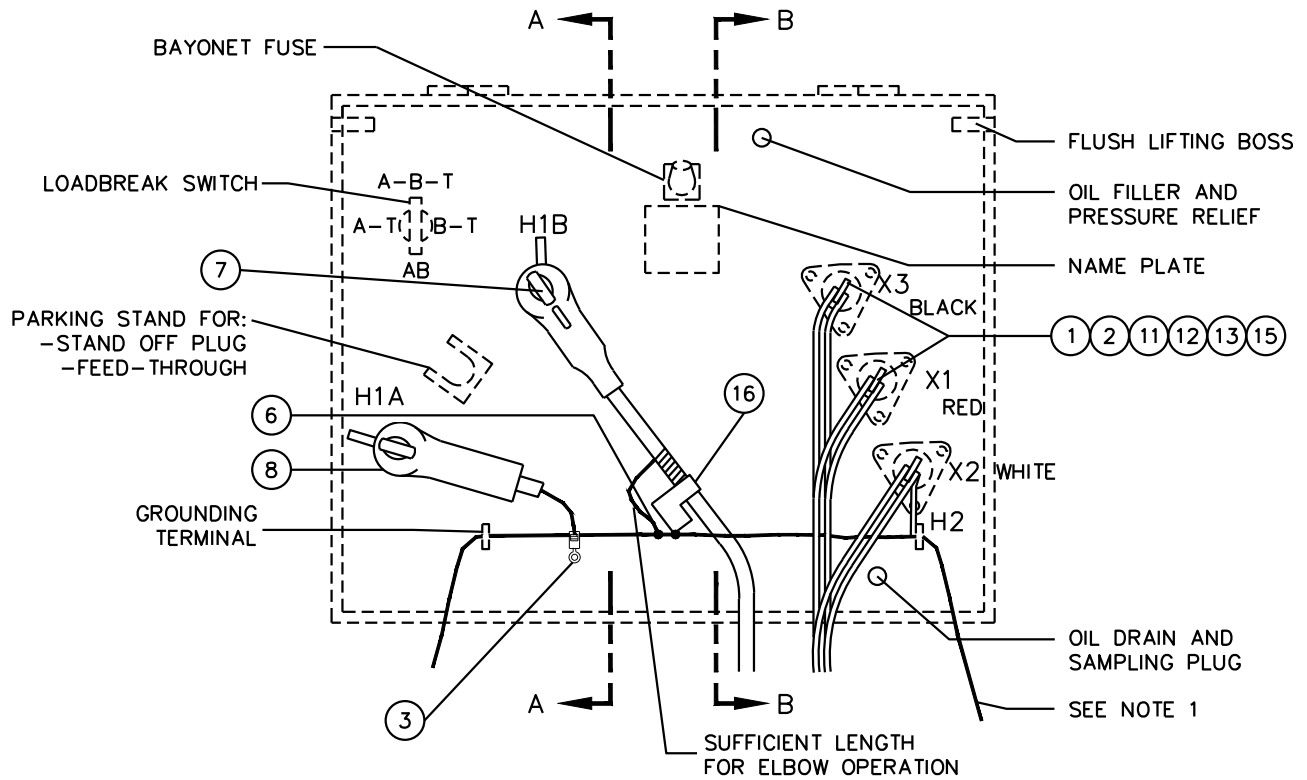
NOTE:

1. COLUMN A IS FOR RADIAL FEED.
COLUMN B IS FOR LOOP FEED.

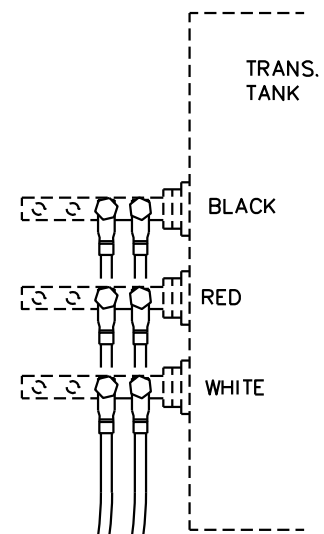
SaskPower - DISTRIBUTION STANDARDS

APPROVAL L.MOEN	DESIGN CHK Q.SUN	DRN. QS CHKD. 2018-05-09	URBAN, 1Ø 72, 73 & 74 SERIES PADMOUNT TRANSFORMER
DATE OF ISSUE: 2018-09-13		DRAWING NO: B-08-34	
		SHEET 1 of 4	REV. F

A. RADIAL FEED



SECTION A-A



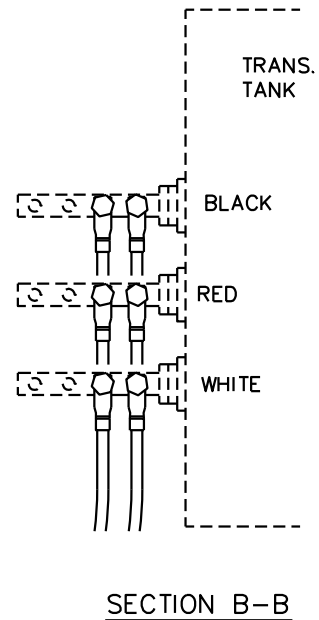
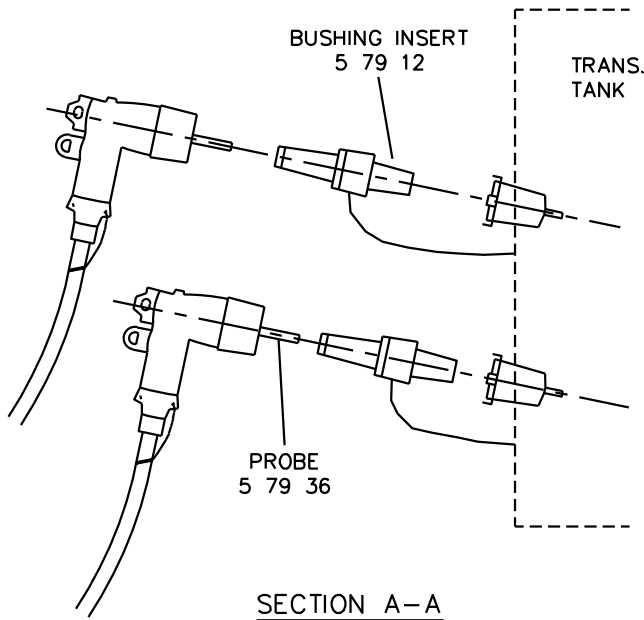
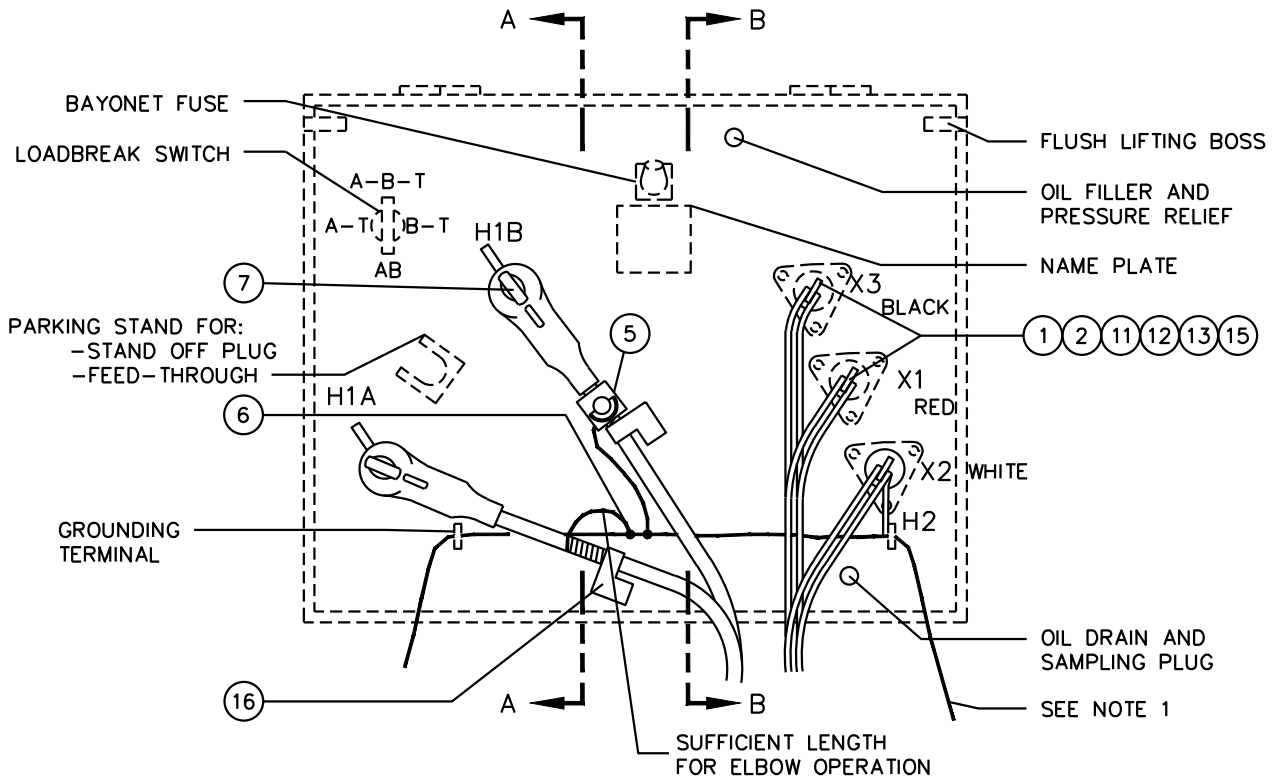
SECTION B-B

SEE SHEET 4 OF 4 FOR NOTES.

SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

SaskPower – DISTRIBUTION STANDARDS			
APPROVAL L.MOEN	DESIGN CHK. D.DONAIS	DRN. Y.HAO CHKD.	URBAN 1Ø 72, 73 & 74 SERIES PADMOUNT TRANSFORMER
		2016-01-20	
DATE OF ISSUE	2016/02/05	DRAWING NO. B-08-34	SHEET 2 of 4
			REV. F

B. LOOP FEED



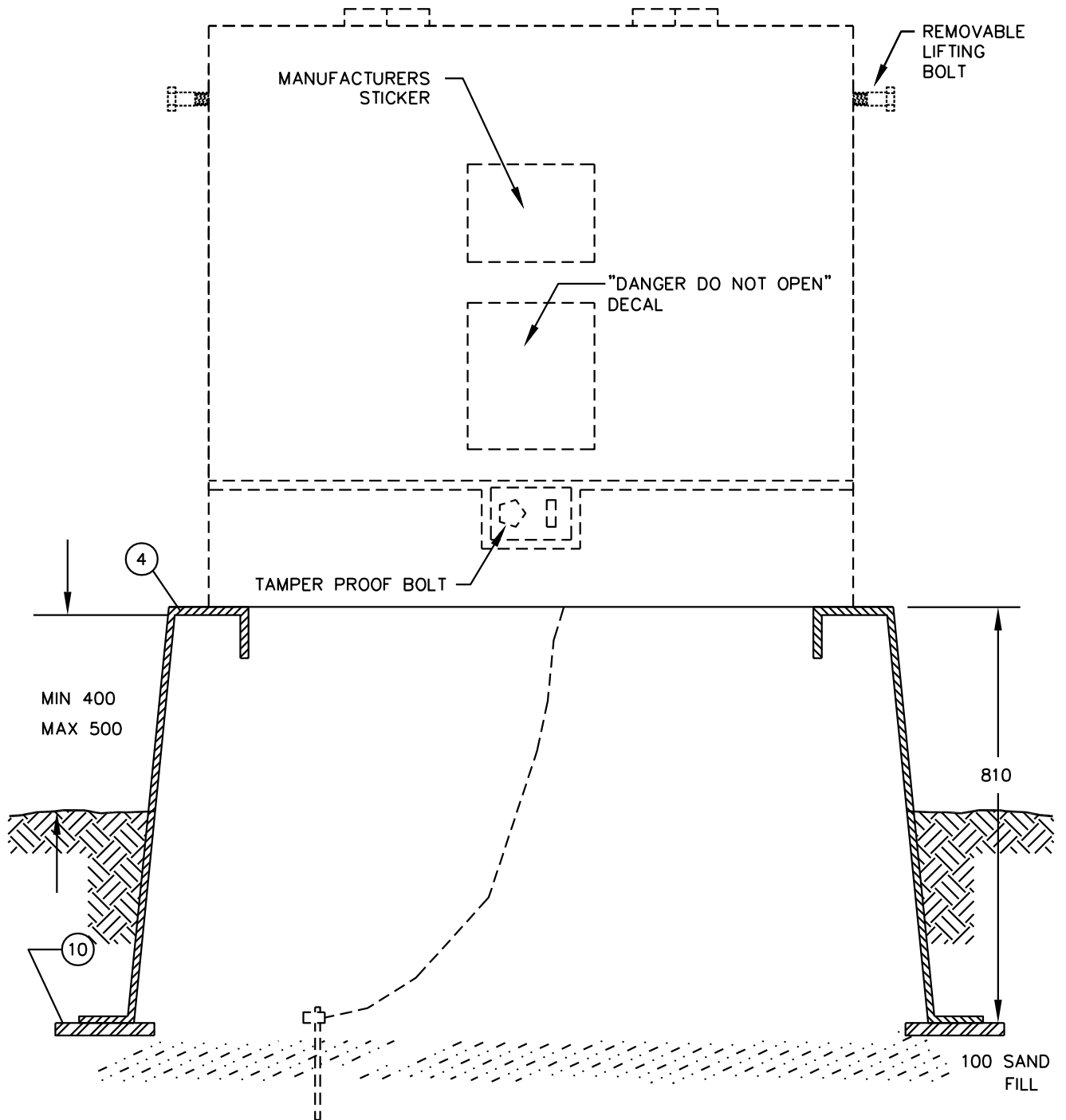
SEE SHEET 4 OF 4 FOR NOTES.

SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

SaskPower – DISTRIBUTION STANDARDS

APPROVAL L.MOEN	DESIGN CHK. D.DONAIS	DRN. Y.HAO CHKD. 2016-01-20	URBAN 1Ø 72, 73 & 74 SERIES PADMOUNT TRANSFORMER
DATE OF ISSUE	2016/02/05	DRAWING NO. B-08-34	
		SHEET 3 of 4	REV. F

2015/04/28



NOTE:

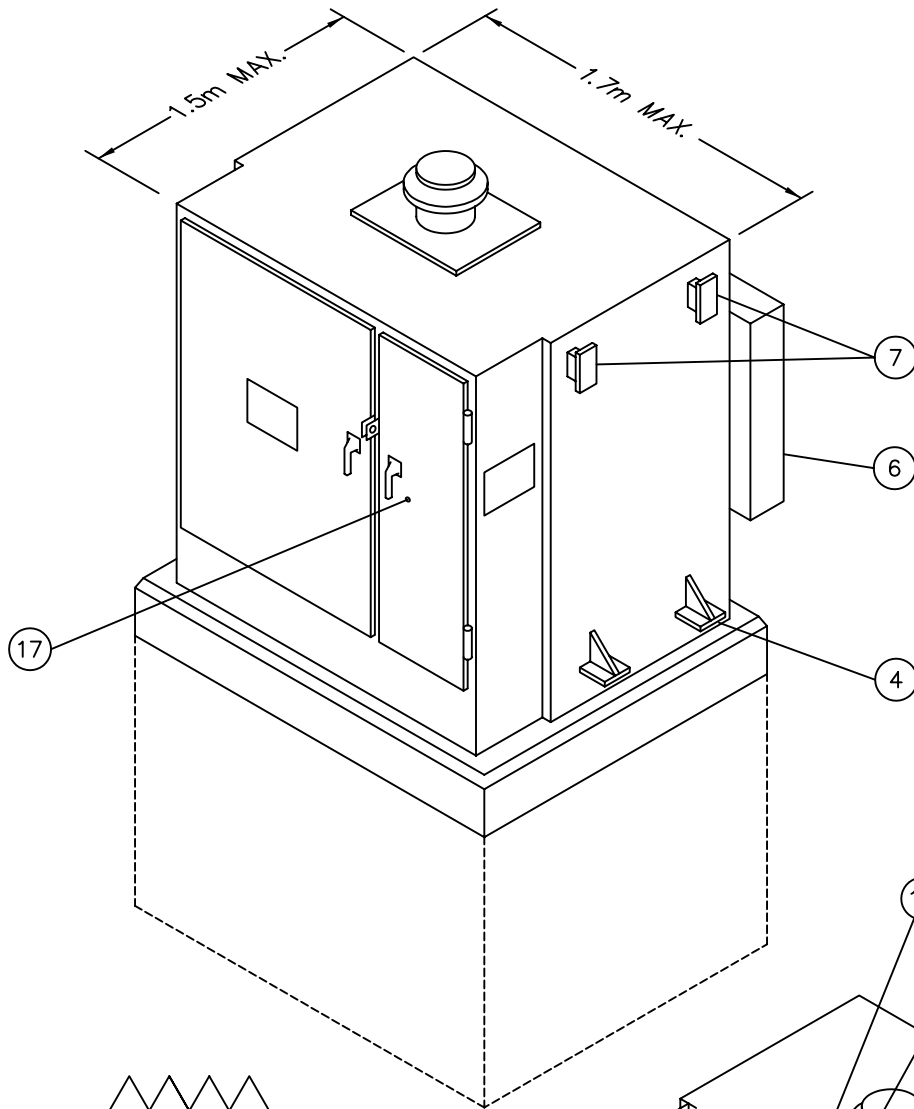
1. USE TYPE TYPE 'J' GROUND GRID (SEE B-33-08).
2. CABLE ACCESSORIES SEE SECTION B-36.
3. DRAWING IS FIBREGLASS BOX INSTALLATION.
4. PLANKS SHALL BE INSTALLED ON ALL SIDES FOR STABILIZATION.

SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

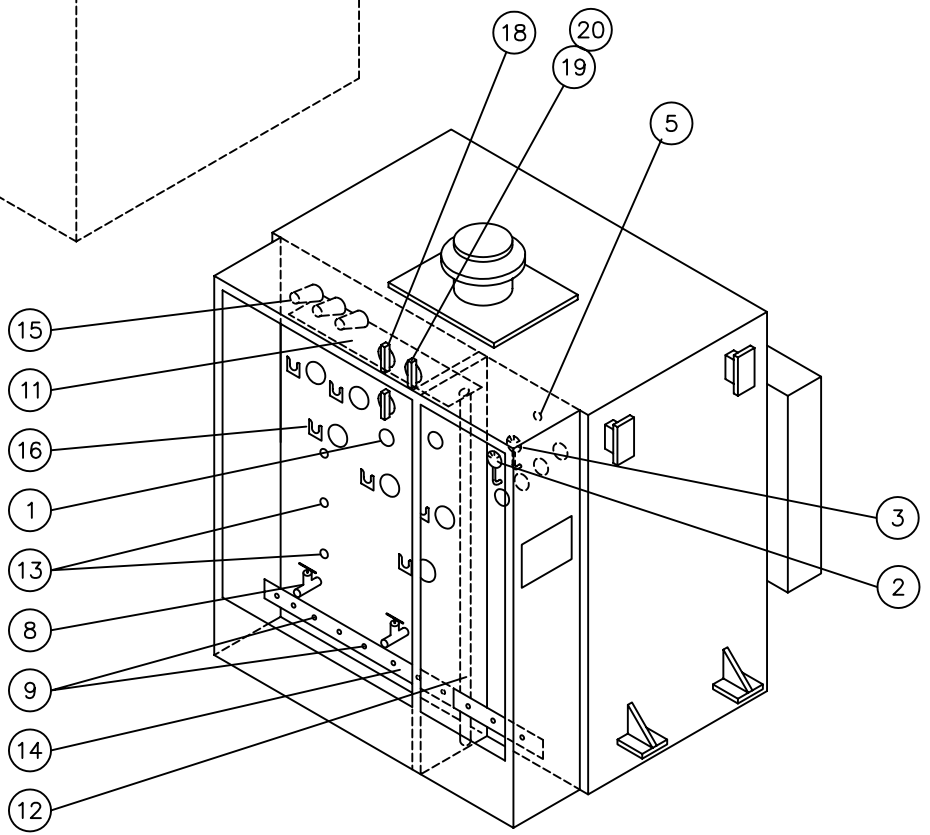
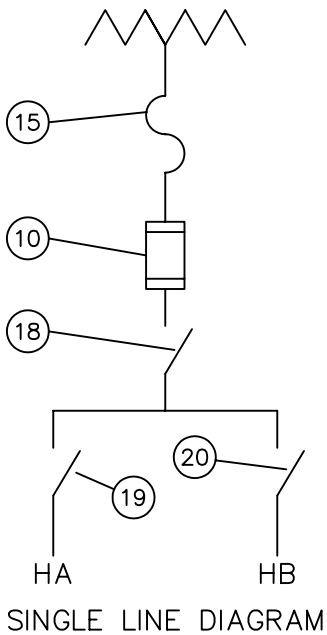
APPROVED FOR CONSTRUCTION

SaskPower – DISTRIBUTION STANDARDS

APPROVAL		DESIGN CHK.	DRN.C.BAUTISTA	URBAN 1 \emptyset 72, 73 & 74 SERIES PADMOUNT TRANSFORMER
L.MOEN		D.DONAIS	CHKD.	
			2018-08-28	
DATE OF ISSUE	2018-09-13	DRAWING NO.	B-08-34	SHEET 4 of 4
				REV. B



1. OFF LOAD TAP CHANGER
2. TEMPERATURE GAUGE
3. OIL LEVEL GAUGE
4. JACKING LUGS
5. RELIEF VALVE
6. RADIATORS
7. LIFTING LUGS
8. GLOBE VALVES
9. GROUNDING LUGS
10. C.L. FUSE
11. OIL SPILL TRAY
12. DRAIN PIPE
13. SWITCHES (LDRL 382-0)
14. GROUNDING BARS
15. BAYONET FUSE
16. PARKING STAND
17. SAFETY SCREW
18. TRANSFORMER ISOLATION SWITCH
19. ISOLATION SWITCH
20. ISOLATION SWITCH



SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

SaskPower - DISTRIBUTION STANDARDS

DRN. <i>R</i>	DESIGN CHK.	APPROVAL	GENERAL INFORMATION THREE-PHASE PADMOUNT TRANSFORMER	
CHKD.				
DATE	DATE	DATE		
DATE OF ISSUE	DRAWING NO. B-08-35		SHEET 1 of 1	REV. A

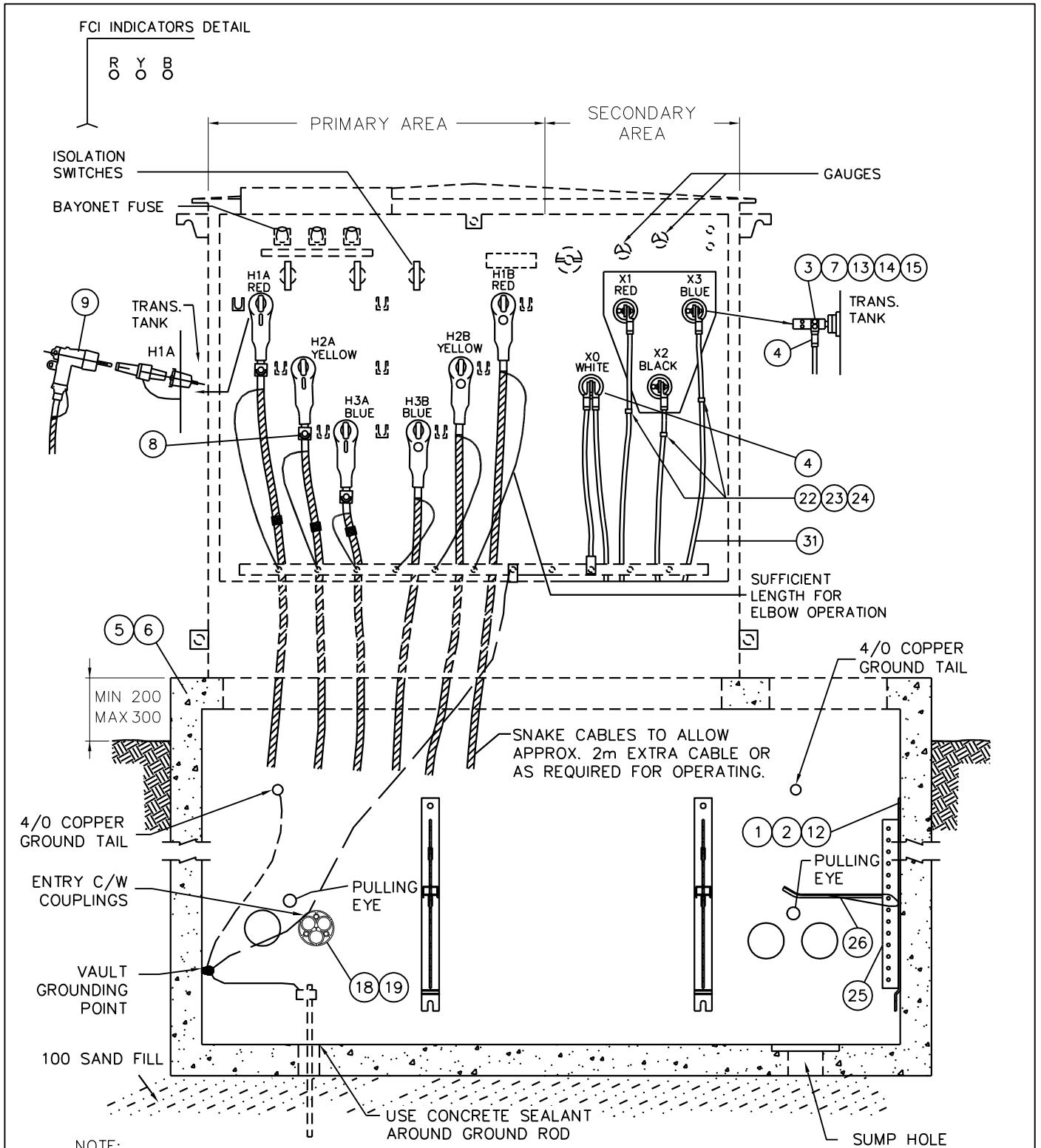
BILL OF MATERIAL

ITEM NO.	CODE NO.	QUANTITY				DESCRIPTION
		A	B	C	D	
1	1 93 20	12	12	12	12	WASHER – LOCK – 5/8” – SPRING TYPE
2	1 93 33	12	12	12	12	WASHER – ROUND – 1 3/4” O.D. – 11/16” HOLE
3	2 04 03	1/10	1/10	1/10	1/10	COMPOUND - SPLICING 8 OZ PENETROX A13. DE-OX
4	2 65 XX	4	4	4	4	HYLUG COMPRESSION STR AL OR CU
5	5 06 08	--	--	--	--	VAULT TOP LARGE (REQ'D FOR 2000 KVA TRANSFORMER WITH 50609 VAULT ONLY)
5	5 06 09	1	1	--	--	VAULT-CONCRETE-3PH TRANS/SWITCH
5	5 06 67	--	--	1	1	VAULT CONCRETE MODULAR BASE SECTIONS
6	5 06 69	--	--	1	1	VAULT CONCRETE MODULAR TOP FOR 3PH TX
7	5 06 7X	--	--	--	--	CONNECTOR ADAPTER – 8 OUTLET (IF REQUIRED)
8	5 06 94	0	3	0	3	FAULT INDICATOR - 300 AMP REMOTE
9	5 79 XX	3	6	3	6	ELBOW CONNECTOR - LOADBREAK
10	6 04 15	3	0	3	0	ARRESTER - SURGE - ELBOW TYPE
11	7 66 00	1	1	1	1	PADLOCK
12	70 08 16	12	12	12	12	BOLT – 5/8” x 1 1/4” – CADMIUM PLATED
13	70 10 36	12	12	12	12	WASHER – ROUND – BRASS – 1/2” HOLE
14	70 10 51	6	6	6	6	CAP SCREW - 1/2" x 2"
15	70 10 80	6	6	6	6	LOCKWASHER- SPRING- 1/2” SILICON
16	70 31 46	1	1	1	1	CONCRETE SEALANT
17	70 31 47	--	--	--	--	PRIMER-PVC (IF REQUIRED)
18	70 31 50	--	--	--	--	DUCT PLUG 5” – 3 X 500KCMIL CABLES (IF REQUIRED)
19	70 31 5X	--	--	--	--	BUSHING SLEEVE – 5” DUCT PLUG (IF REQUIRED)
20	71 35 00	2	4	2	4	KIT - CABLE PREPARATION
21	71 42 02	3/4	3/4	3/4	3/4	TAPE-HIGH VOLTAGE-SELF BONDING (ROLL)
22	71 42 06	1/10	1/5	1/10	1/5	TAPE - PHASE I.D. RED
23	71 42 07	1/10	1/5	1/10	1/5	TAPE - PHASE I.D. BLUE
24	71 42 08	1/10	1/5	1/10	1/5	TAPE - PHASE I.D. YELLOW
25	71 74 25	6	6	6	6	CABLE RACK – 27 1/2"
26	71 75 22	12	12	12	12	CABLE RACK HOOK 10"
27	04 161 901	1/5	1/5	1/5	1/5	RAGS - 25 LB BOX
28	05 384 00X	3	3	3	3	TAG - CABLE MARKER
29	05 646 582	2	2	2	2	DECAL - WATCH FOR WIRES
30	PURCHASE LOCALLY	1/2	1/2	1/2	1/2	SAND (m ³) - IF REQUIRED

MATERIAL LIST CONTINUED ON SHEET 4

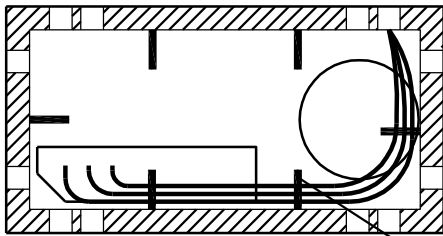
SaskPower - DISTRIBUTION STANDARDS

APPROVAL	DESIGN CHK	DRN. ARU	3Ø PADMOUNT TRANSFORMER
L. MOEN	A. UHREN	CHKD.	
		2016-03-09	
DATE OF ISSUE: 2016/05/04		DRAWING NO: B-08-36	SHEET 1 OF 4 REV. G



Sask Power – DISTRIBUTION STANDARDS			
APPROVAL L.MOEN	DESIGN CHK. A.UHREN	DRN. N.KIM CHKD. 2016-04-20	30 PADMOUNT TRANSFORMER
DATE OF ISSUE	2016/05/04	DRAWING NO. B-08-36	SHEET 2 of 4
			REV. E

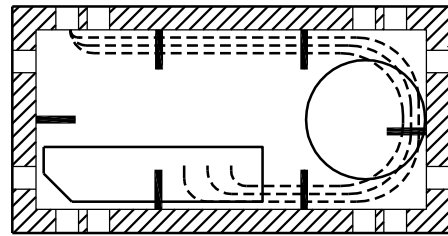
PRIMARY CABLES



↑
TRANSFORMER FRONT

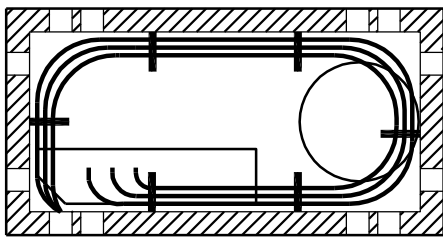
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SECONDARY CABLES



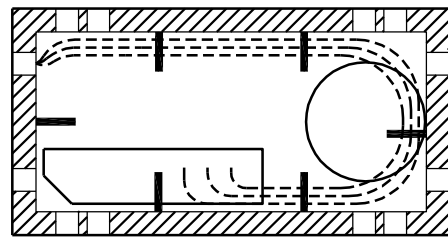
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TRANSFORMER FRONT

PRIMARY CABLES



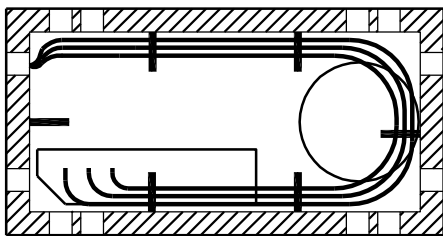
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TRANSFORMER FRONT

SECONDARY CABLES



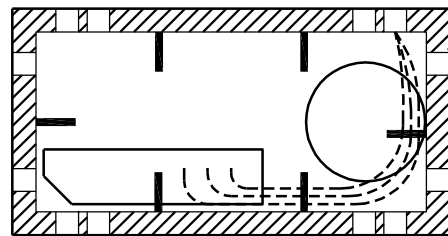
↑
TRANSFORMER FRONT

PRIMARY CABLES



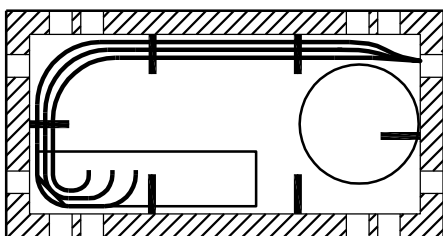
↑
TRANSFORMER FRONT

SECONDARY CABLES



↑
TRANSFORMER FRONT

PRIMARY CABLES



↑
TRANSFORMER FRONT

NOTE:

1. PRIMARY CABLES ON BOTTOM RACK, SECONDARY CABLES ON TOP RACK.
2. ADDITIONAL ACCESS HOLES REQUIRE ENGINEERING APPROVAL.

SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

Sask Power – DISTRIBUTION STANDARDS

APPROVAL L.MOEN	DESIGN CHK. A.UHREN	DRN. N.KIM CHKD. 2016-04-19	(CABLE ROUTING) 3Ø PADMOUNT TRANSFORMER
DATE OF ISSUE	2016/05/04	DRAWING NO. B-08-36	
		SHEET 3 of 4	REV. B

BILL OF MATERIAL

ITEM NO.	CODE NO.	QUANTITY				DESCRIPTION
		A	B	C	D	
31	NOT CODED	4	4	4	4	<p>SUPPORT SOCKS - CABLE (IF REQUIRED)</p> <p>NOTE:</p> <p style="margin-left: 40px;">1. COLUMN A IS FOR RADIAL FEED (2 MVA TRANSFORMER OR LESS)</p> <p style="margin-left: 40px;">COLUMN B IS FOR LOOP FEED (2 MVA TRANSFORMER OR LESS)</p> <p style="margin-left: 40px;">COLUMN C IS FOR RADIAL FEED (LARGER THAN 2 MVA TRANSFORMER, MODULAR VAULT)</p> <p style="margin-left: 40px;">COLUMN D IS FOR LOOP FEED (LARGER THAN 2 MVA TRANSFORMER, MODULAR VAULT)</p>

SaskPower - DISTRIBUTION STANDARDS

APPROVAL	DESIGN CHK	DRN. ARU	3Ø PADMOUNT TRANSFORMER
L. MOEN	A. UHREN	CHKD.	
		2016-03-09	
DATE OF ISSUE: 2016/05/04		DRAWING NO: B-08-36	SHEET 4 OF 4 REV. 0

BILL OF MATERIAL

ITEM NO.	CODE NO.	QUANTITY		DESCRIPTION
		A	B	
1	1 93 12	4	4	WASHER BELLEVILLE – STAINLESS 17/32" HOLE
2	1 93 14	8	8	WASHER FLAT – 9/16" HOLE
3	2 04 03	1	1	COMPOUND – SPLICING 8 OZ PENETROX A
4	2 65 8X	4	4	HYLUG COMPRESSION STR AL OR CU
4	2 65 9X	4	4	HYLUG COMPRESSION STR AL OR CU
5	5 06 11	1	1	BOX PAD CONCRETE-INTERMEDIATE THREE-PHASE (NOTE 2)
6	5 06 94	--	3	FAULT INDICATOR – 300 AMP REMOTE
7	5 79 XX	3	6	ELBOW CONNECTOR – LOADBREAK
8	6 04 15	3	0	ARRESTER – SURGE – ELBOW TYPE
9	7 66 00	1	1	PADLOCK
10	70 10 51	4	4	BOLT 1/2" x 2"
11	71 35 00	2	4	KIT – CABLE PREPARATION
12	71 42 02	3/4	3/4	TAPE INSULATING (ROLL)
13	71 42 06	.1	.2	TAPE – PHASE I.D. RED
14	71 42 07	.1	.2	TAPE – PHASE I.D. BLUE
15	71 42 08	.1	.2	TAPE – PHASE I.D. YELLOW
16	04 161 901	1/5	1/5	RAGS – 25 LB BOX
17	05 384 00X	3	6	TAG – CABLE MARKER
18	05 646 582	2	2	DECAL – WATCH FOR WIRES
19	PURCHASE LOCALLY	1/2	1/2	SAND (m ³) – IF REQUIRED
20	NOT CODED	4	4	SUPPORT SOCKS – CABLE (IF REQUIRED)

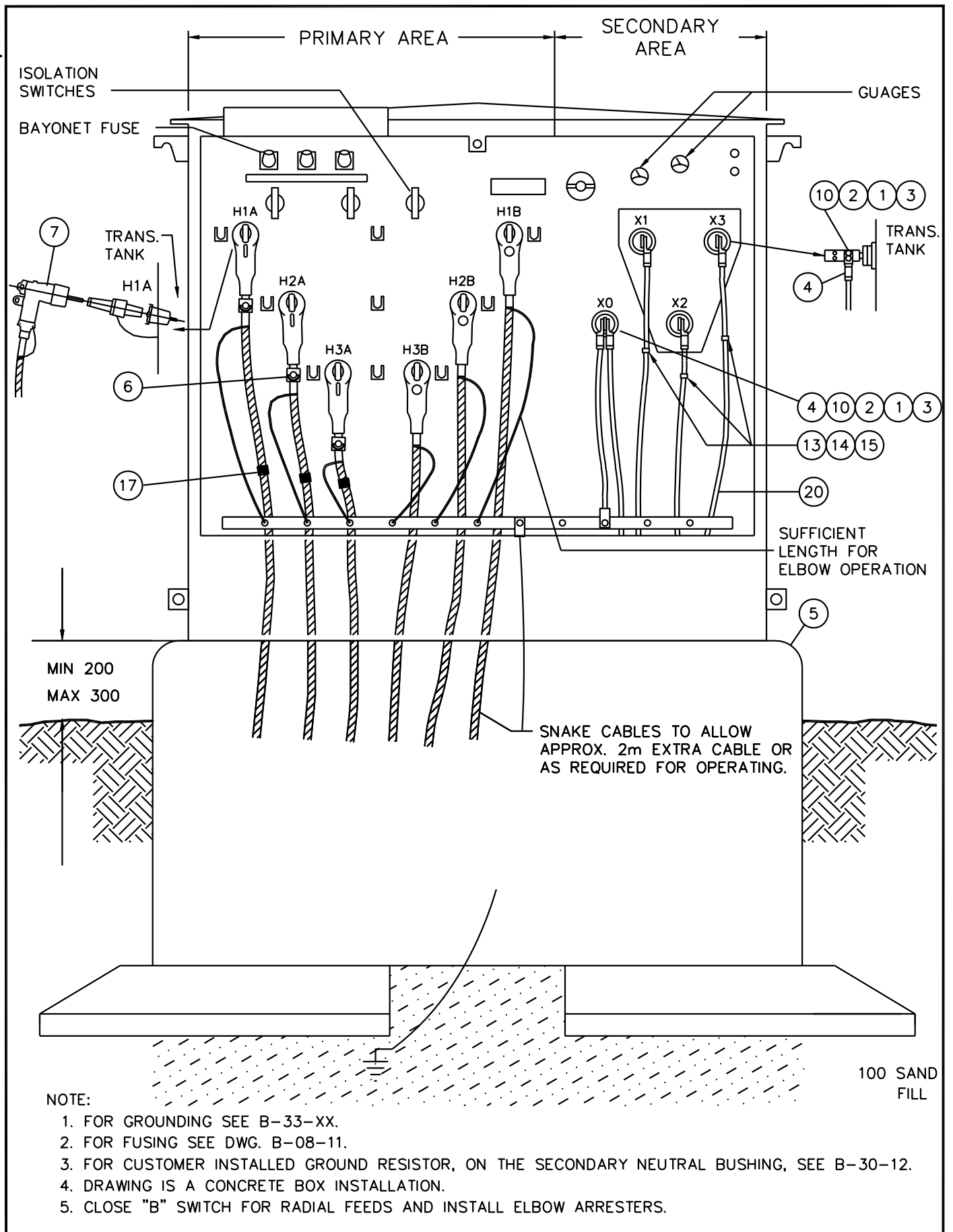
NOTE:

1. COLUMN A IS FOR RADIAL FEED.
COLUMN B IS FOR LOOP FEED.
2. TRANSFORMER MAXIMUMS ARE 750 kVA,
1730 X 1575 mm, 10 000 lbs.

SaskPower - DISTRIBUTION STANDARDS

DRN.	DESIGN CHK.	APPROVAL	INTERMEDIATE THREE-PHASE PAD-MOUNT TRANSFORMER
CHKD.		DATE	
DATE	DATE	DATE	
DATE OF ISSUE 2009/06/29		DRAWING NO: B-08-37	SHEET 1 OF 2 REV. A

AUTO * DRAFT



Sask Power – DISTRIBUTION STANDARDS

DRN. <i>[Signature]</i>	DESIGN CHK.	APPROVAL	INTERMEDIATE THREE PHASE PADMOUNT TRANSFORMER	
CHKD.				
DATE	DATE	DATE		
DATE OF ISSUE: 2009-06-29		DRAWING NO. B-08-37	SHEET 2 of 2	REV. A

BILL OF MATERIAL

ITEM NO.	CODE NO.	QUANTITY		DESCRIPTION
		A	B	
1	1 93 12	4	4	WASHER BELLEVILLE - STAINLESS 17/32" HOLE
2	1 93 14	8	8	WASHER FLAT - 9/16" HOLE
3	2 04 03	1	1	COMPOUND - SPLICING 8 OZ PENETROX A
4	2 65 8X	4	4	HYLUG COMPRESSION STR AL OR CU
4	2 65 9X	4	4	HYLUG COMPRESSION STR AL OR CU
5	5 06 00	1	1	FIBREGLASS BOX PAD FOR THREE-PHASE TRANSFORMER
6	5 06 94	0	3	FAULT INDICATOR - 300 AMP REMOTE
7	NOT CODED	4	4	SUPPORT SOCKS - CABLE (IF REQUIRED)
8	5 79 XX	3	6	ELBOW CONNECTOR - LOADBREAK
9	6 04 15	3	0	ARRESTER - SURGE - ELBOW TYPE
10	7 66 00	1	1	PADLOCK
11	9 01 25	2	2	PLANK - TREATED - 2" x 6" x 10'
12	70 10 51	4	4	BOLT 1/2" x 2"
13	71 42 02	3/4	3/4	TAPE INSULATING (ROLL)
14	71 42 06	1	1	TAPE - PHASE I.D. RED
15	71 42 07	1	1	TAPE - PHASE I.D. BLUE
16	71 42 08	1	1	TAPE - PHASE I.D. YELLOW
17	04 161 901	1/5	1/5	RAGS - 25 LB BOX
18	05 384 00X	3	6	TAG - CABLE MARKER
19	05 646 582	2	2	DECAL - WATCH FOR WIRES
20	71 35 00	2	4	KIT - CABLE PREPARATION
21	PURCHASE LOCALLY	1/2	1/2	SAND (m ³) - IF REQUIRED

NOTE:

1. COLUMN A IS FOR RADIAL FEED.
COLUMN B IS FOR LOOP FEED.
2. TRANSFORMER MAXIMUMS ARE 300 kVA,
1480 x 1250 mm, 10 000 lbs.

SaskPower - DISTRIBUTION STANDARDS

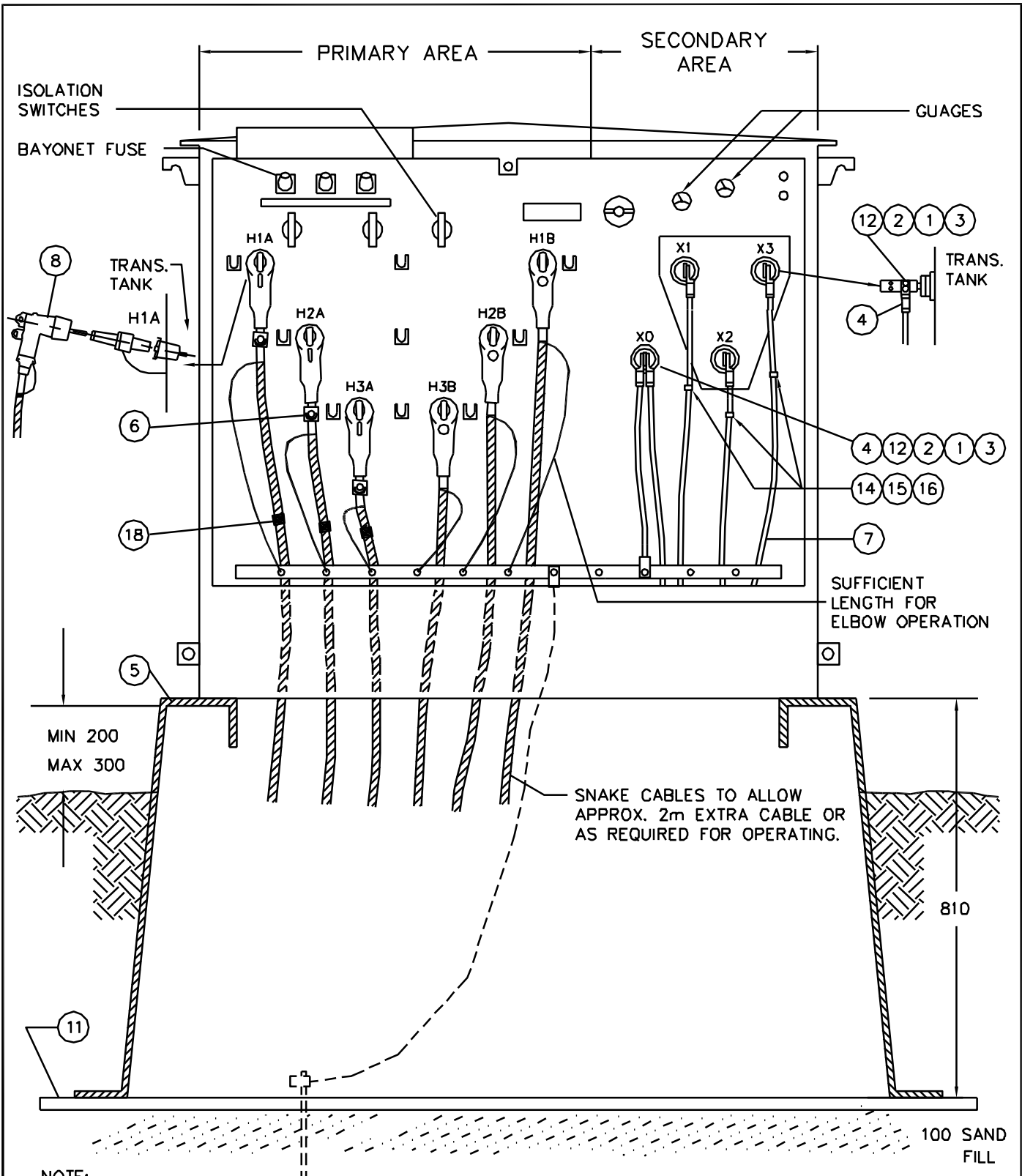
DRN.	DESIGN CHK.	APPROVAL	SMALL THREE-PHASE PAD-MOUNT TRANSFORMER
CHKD.		DATE	
DATE	DATE	DATE	

DATE OF ISSUE **2009/06/29**

DRAWING NO: **B-08-38**

SHEET 1 OF 2

REV. **A**



NOTE:

1. FOR GROUNDING SEE B-33-XX.
2. FOR FUSING SEE DWG. B-08-11.
3. FOR CUSTOMER INSTALLED GROUND RESISTOR, ON THE SECONDARY NEUTRAL BUSHING, SEE B-30-12.
4. DRAWING IS A FIBERGLASS BOX INSTALLATION.
5. CLOSE "B" SWITCH FOR RADIAL FEEDS AND INSTALL ELBOW ARRESTERS.

SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

Sask Power - DISTRIBUTION STANDARDS

DRN. <i>R</i>	DESIGN CHK.	APPROVAL	SMALL THREE PHASE PADMOUNT TRANSFORMER
CHKD.			
DATE	DATE	DATE	
DATE OF ISSUE: 2009-06-29		DRAWING NO. B-08-38	SHEET 2 of 2
			REV. A

ACCESSORIES PADMOUNT TRANSFORMERS

ACCESSORY DESCRIPTION	DEAD FRONT		LIVE FRONT
	25-167 kVA 1Ø LOAD BREAK	150-1000 kVA 3Ø DEAD BREAK	25-167 kVA 1Ø
ELBOW (COMPLETE)	5-79-35	5-83-35	—
INSERT SEE NOTE	5-79-12	5-83-12	—
BUSHING INSERT CAP (OPERATING)	5-79-14	—	—
PLUG STAND OFF INSULATED (OPERATING)	5-79-47	51-673-151	—
PLUG GROUNDING CLUSTER (OPERATING)	—	51-803-000	—
PLUG DEAD END (OPERATING)	—	5-83-42	—
DEAD END (OPERATING)	—	5-83-50+35	—
PLUG STRAIGHT	—	5-83-48	—
T-CONNECTOR	—	5-83-38	—
ONE PIECE BUSHING WELL & INSERT	5-79-10	—	—
FEED THRU BUSHING (OPERATING)	5-79-40	—	—
FUSE - OIL IMMERSED FOR BAY-O-NET FUSE (OPERATING)	7-55-XX	7-55-XX	—
CONDUCTOR CONTACT FOR ELBOW (MAINTENANCE)	5-79-37	*	—
PIN CONTACT FOR ELBOW (MAINTENANCE)	5-79-36	*	—
FEMALE CONTACT ASSY. FOR INSERT (MAINTENANCE)	5-79-12	—	—
ARC STRANGLER 200 AMP	—	—	5-06-15
INDICATOR CABLE FAULT	5-06-93	5-06-93	5-06-93
ROD TEST & GROUND	5-79-53	—	—
FUSE NX SAND FILLED (OPERATING)	—	—	7-53-XX
SCREW IN FUSE PLUG FOR BAY-O-NET FUSE HOLDER (MAINT.)	7-55-00	7-55-00	—
STRESS CONE	—	—	8-35-00
VAULT	5-06-04	5-06-09	5-06-08
SLEEVE #1 XLPE AL. TO #2 CU.	—	—	2-65-80
CONNECTOR COMPRESSION HYLUG	2-65-XX	2-65-XX	2-65-XX
KIOSK 25 - 167 kVA	—	—	5-06-10
KIOSK 25 - 167 kVA c/w WRAP DOOR	—	—	5-06-11
TRANSFORMER SEPARABLE 14,400 - 120/240	—	—	16-71-XX
TRANSFORMER LOW PROFILE 14,400 - 120/240	16-72-XX	—	—
TRANSFORMER PADMOUNT	—	19-XX-XX	—
PADLOCK	7-66-00	7-66-00	7-66-00
GROUNDING CLUSTER (OPERATING)	—	51-803-000	—

* NOT STOCK CODED
 — NOT REQUIRED

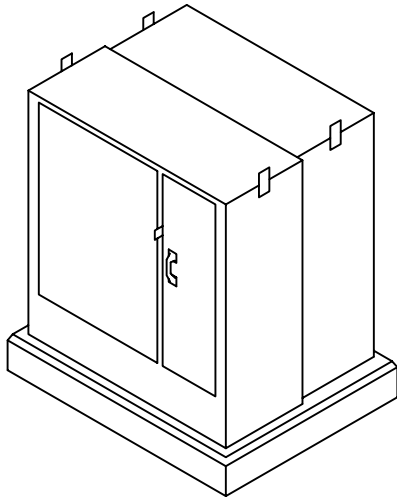
NOTE:

1. INSERT INCLUDED WITH TRANSFORMER FOR 1979 CONSTRUCTION.
 FOR MAINTENANCE ON EXISTING PAD MOUNTS USE ABOVE CODE No. 5-79-12
 AND 5-83-12.
2. GROUNDING CLUSTER INCLUDES 3 INSULATED STAND OFF PLUGS.

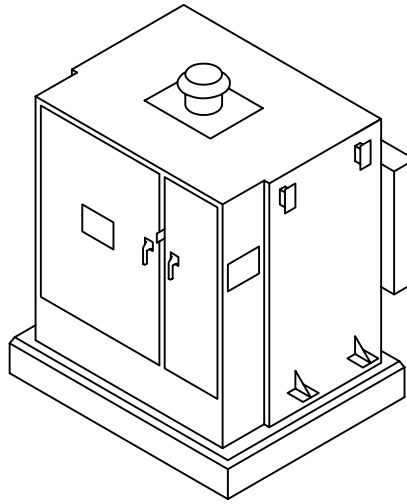
SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

SaskPower - DISTRIBUTION STANDARDS

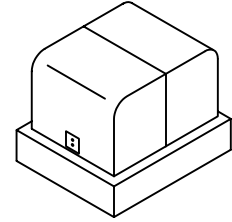
DRN. <i>A</i>	DESIGN CHK.	APPROVAL	TRANSFORMER ACCESSORIES & INSTALLATION
CHKD.			
DATE	DATE	DATE	
DATE OF ISSUE		DRAWING NO. B-08-39	SHEET 1 of 2
			REV. A



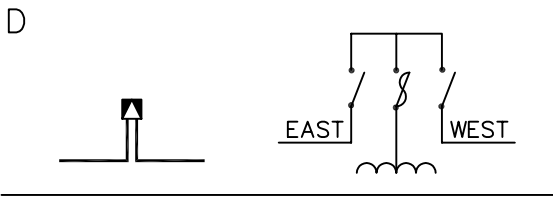
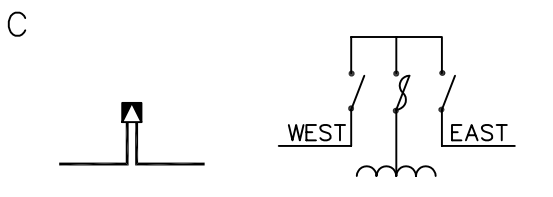
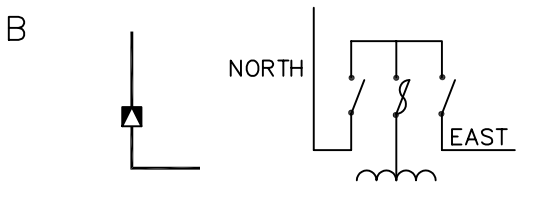
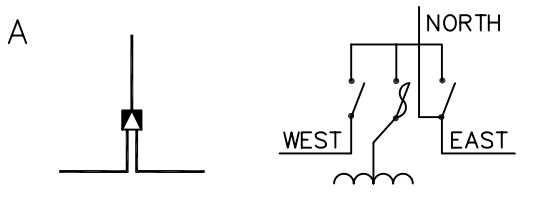
1Ø SEPARABLE
PADMOUNT



3Ø PADMOUNT



LOW PROFILE
PADMOUNT



STANDARD CONFIGURATION
OF PRIMARY CABLE ROUTING

NOTE:

1. SAFETY SCREWS SHALL BE INSTALLED ON ALL PADMOUNT UNITS.
2. PADLOCK DOORS TO PREVENT TAMPERING DURING CONSTRUCTION.
3. PLACE ARROW STICKERS TO IDENTIFY NORMAL DIRECTION OF FEED.
4. CABLES ENTERING KIOSK SHALL BE ORIENTED & TERMINATED AS SHOWN ON THE SCHEMATIC DIAGRAMS (A, B, C OR D).
5. THE FOUNDATION SHALL BE SET ON WELL PACKED SOIL TO PREVENT UNEVEN KIOSK SETTLING.
6. SCHEMATIC "A" SHOULD BE AVOIDED IF POSSIBLE & A SWITCH KIOSK USED (USE STANDARD KIOSK PLUS BACK PANEL).
7. GROUND ROD SHALL BE INSTALLED IN THE SECONDARY COMPARTMENT.
8. BOTTOM OF KIOSK & TRANSFORMER MUST BE SEALED TO FOUNDATION WITH CAULKING COMPOUND TO PREVENT THE ENTRY OF DUST & SNOW.

NOTES ON SCHEMATIC DIAGRAMS:

9. SCHEMATIC DIAGRAMS ARE ALWAYS UPRIGHT (AS IN A, B, C & D) ON THE DISTRIBUTION LAYOUT DRAWING REGARDLESS OF ACTUAL KIOSK ORIENTATION.
10. ALL SCHEMATIC KIOSK DIAGRAMS SHOW KIOSK AS VIEWED FROM DOOR TO OPENING.
11. CABLE DIRECTIONS ON SCHEMATIC DIAGRAMS INDICATE WHICH DIRECTION CABLES GO FROM KIOSK.

SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

SaskPower - DISTRIBUTION STANDARDS

DRN. <i>R</i>	DESIGN CHK.	APPROVAL	TRANSFORMER ACCESSORIES & INSTALLATION
CHKD.			
DATE	DATE	DATE	
DATE OF ISSUE	DRAWING NO. B-08-39		SHEET 2 of 2
			REV. A

BILL OF MATERIAL

ITEM NO.	CODE NO.	QUANTITY		DESCRIPTION
		A	B	
1	1 12 02	0	1	BOLT – MACHINE – 1/2" x 2"
2	1 93 12	3	0	WASHER – BELLEVILLE – STAINLESS STEEL
3	1 93 14	6	0	WASHER – FLAT – STAINLESS STEEL
4	1 93 30	0	2	WASHER – ROUND – 9/16"
5	2 04 03	1/10	1/30	COMPOUND – SPLICING – OXIDE INHIBITOR
6	2 65 XX	6	0	HYLUG
7	2 65 94	0	2	HYLUG – #4 WIRE
8	5 06 02	0	1	FIBREGLASS BOX PAD – 18" HIGH
9	5 06 04	1	0	FIBREGLASS BOX PAD – 32" HIGH
10	5 06 96	2	2	FAULT INDICATOR
11	5 79 13	1	1	BUSHING – Y INSERT – LOADBREAK
12	5 80 32	3	3	ELBOW CONNECTOR – LOADBREAK
13	7 66 01	1	1	PADLOCK – ONE TIME USE
14	70 10 51	3	0	SCREW CAP – 1/2" x 2"
15	71 42 02	1/4	0	TAPE – HIGH VOLTAGE – SAPT (ROLL)
16	05 384 008	3	3	TAG – CABLE MARKER – YELLOW
17	05 638 2XX	7	7	NUMBERS – DECAL 1 1/2"
17	05 638 4XX	1	1	LETTERS – DECAL 1 1/2"
18	05 646 582	2	2	DECAL – WATCH FOR WIRES
19	05 641 385	0	0	DECAL – DANGER DO NOT OPEN
20	5 12 08	3	3	CONNECTOR – COPPER CRIMPIT – CU YC2C4
21	71 35 00	3	3	KIT – CABLE PREPARATION

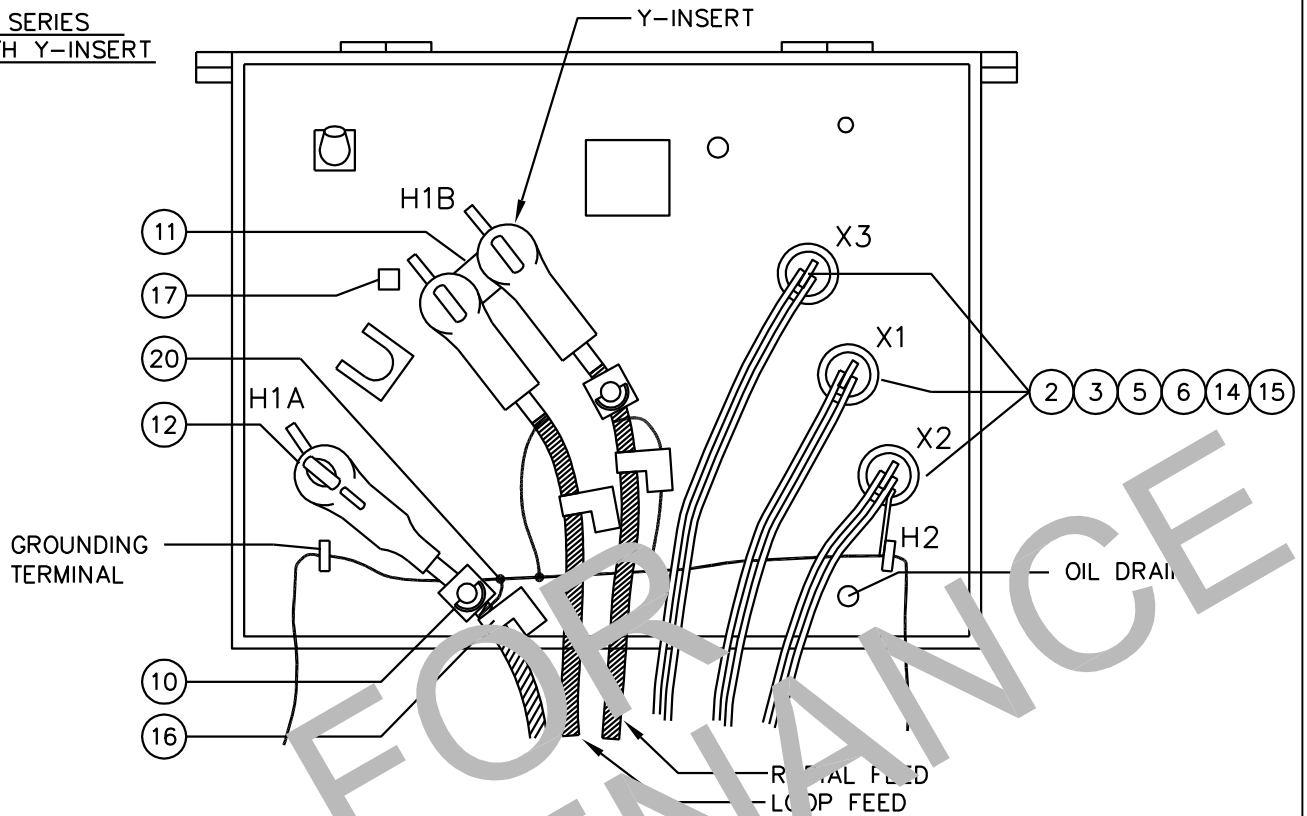
NOTE:

1. SALVAGE 5 79 12 BUSHING INSERT.
2. LOCATE SIGNS AS PER B-30-25.
3. COLUMN A IS FOR TWO CONSUMERS (72 SERIES).
COLUMN B IS FOR ONE CONSUMER (78 SERIES).

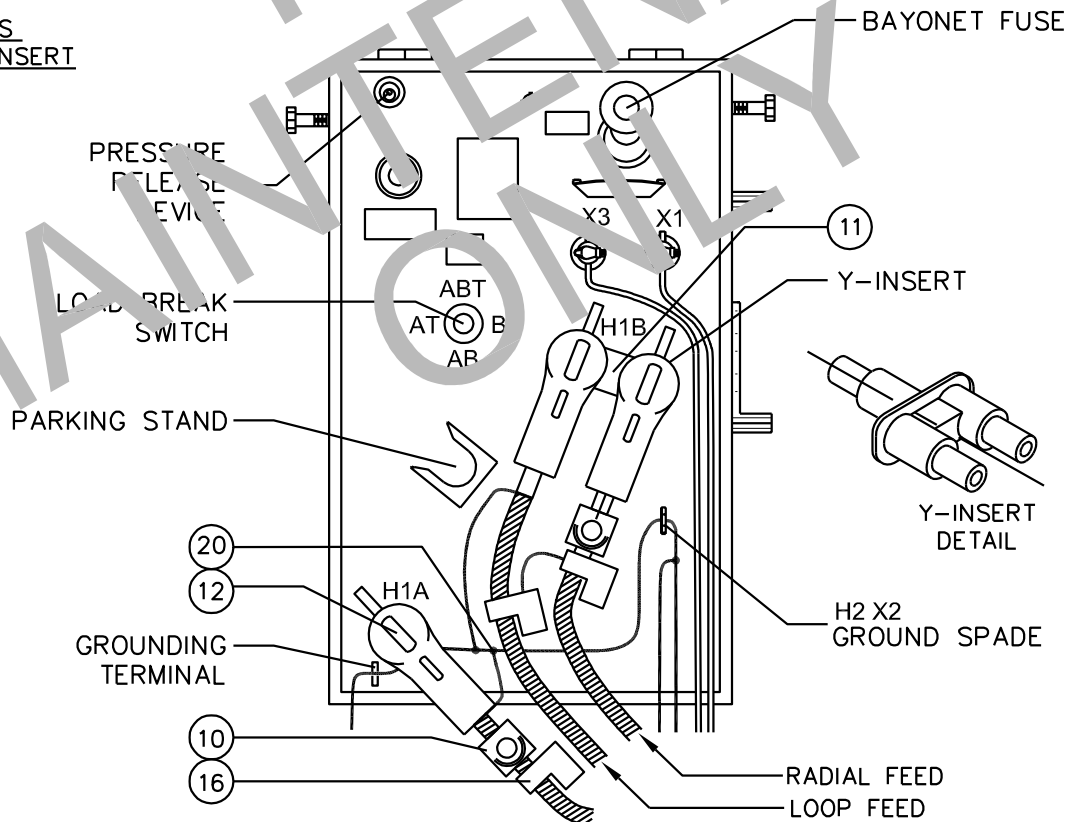
SaskPower - DISTRIBUTION STANDARDS

APPROVAL	DESIGN CHK	DRN. DCD	RURAL 1 PH 72 & 78 SERIES Y INSERT PADMOUNT TRANSFORMERS
L. MOEN	D. DONAIS	CHKD.	
		2018-05-18	
DATE OF ISSUE	2018-06-07	DRAWING NO.	B-08-45
		SHEET 1 OF 2	REV. D

**A. 72 SERIES
WITH Y-INSERT**



**B. 78 SERIES
WITH Y-INSERT**



- NOTE: 1. Y-INSERT BUSHING TO BE INSTALLED ON H1B BUSHING.
 2. Y-INSERT BUSHING ONLY INSTALLED ON TWO PIECE BUSHING.
 3. MAKE SURE INSULATED CONNECTORS ARE INSTALLED ABOVE GRADE.

SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

Sask Power – DISTRIBUTION STANDARDS

APPROVAL L.MOEN	DESIGN CHK. D.DONAIS	DRN. C,BAUTISTA CHKD. 2018-05-28	RURAL 1PH 72 & 78 SERIES Y-INSERT PADMOUNT TRANSFORMERS
DATE OF ISSUE	2018-06-07	DRAWING NO. B-08-45	
		SHEET 2 of 2	REV. G