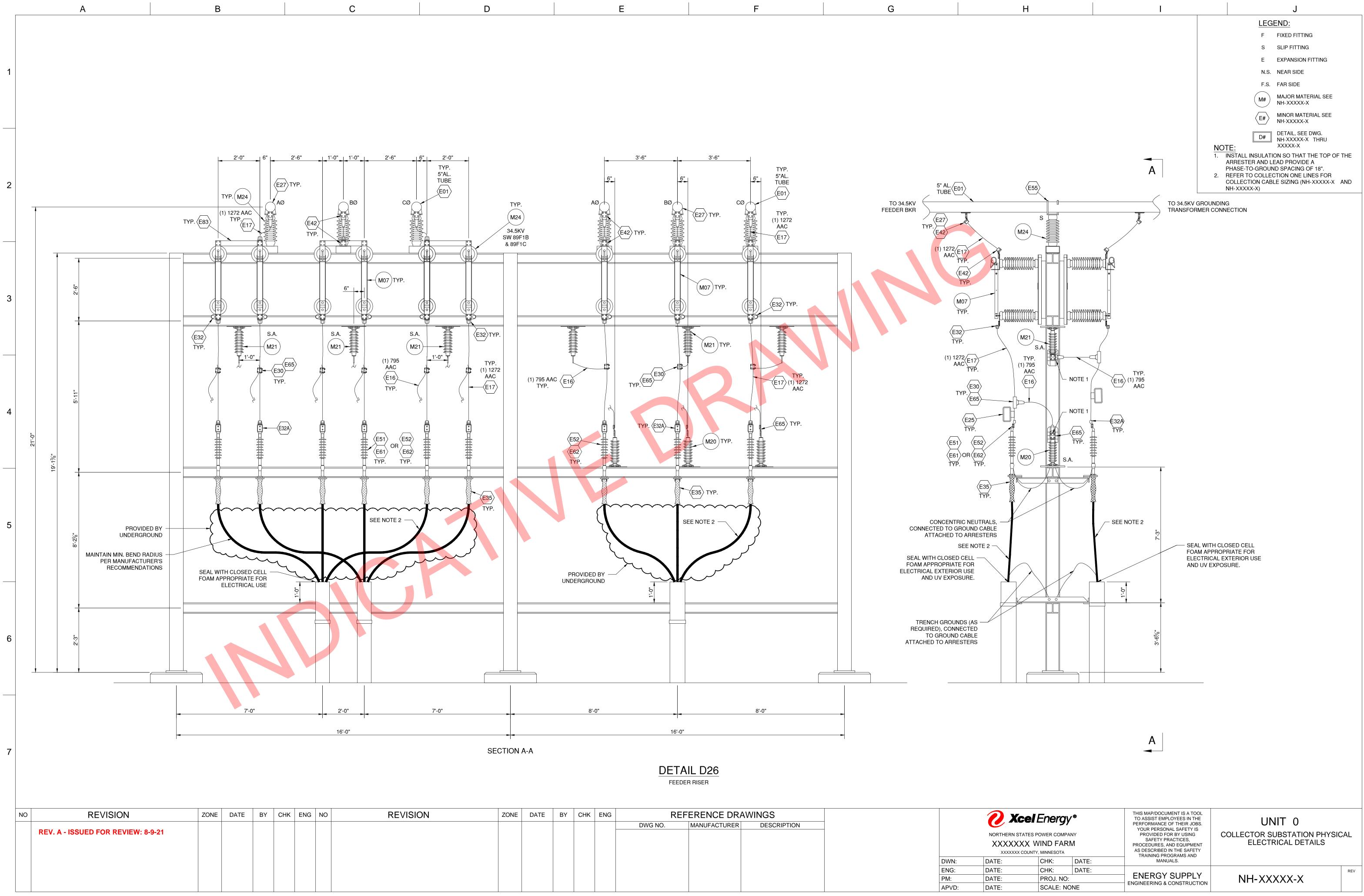
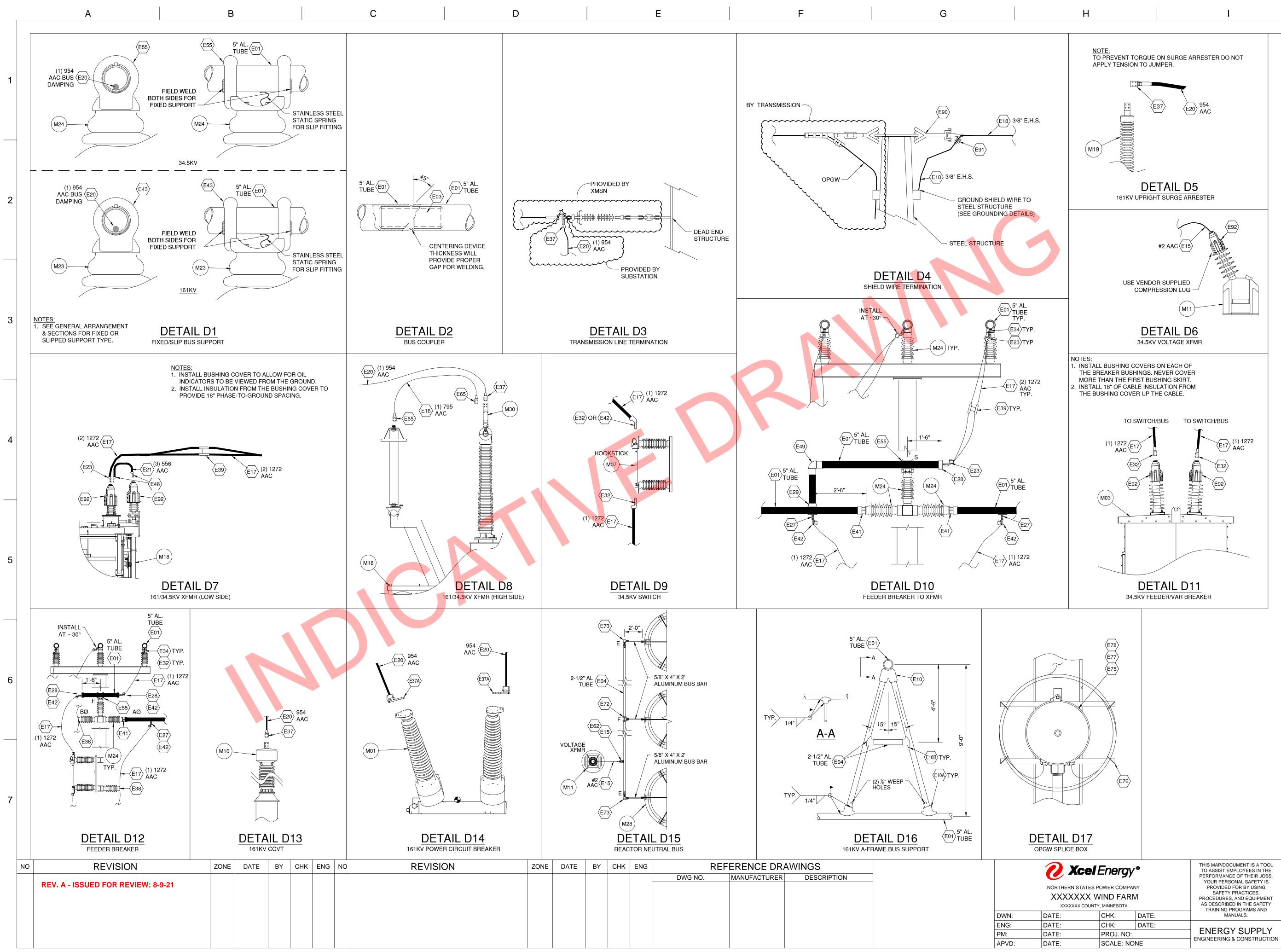


XXXXX COUNTY,	MINNESOTA	
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	SCALE: NO	NE

REV



ZONE	DATE	BY	СНК	ENG	REFERENCE DRAV	WINGS	
					DWG NO. MANUFACTURER	DESCRIPTION	
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							APVD:





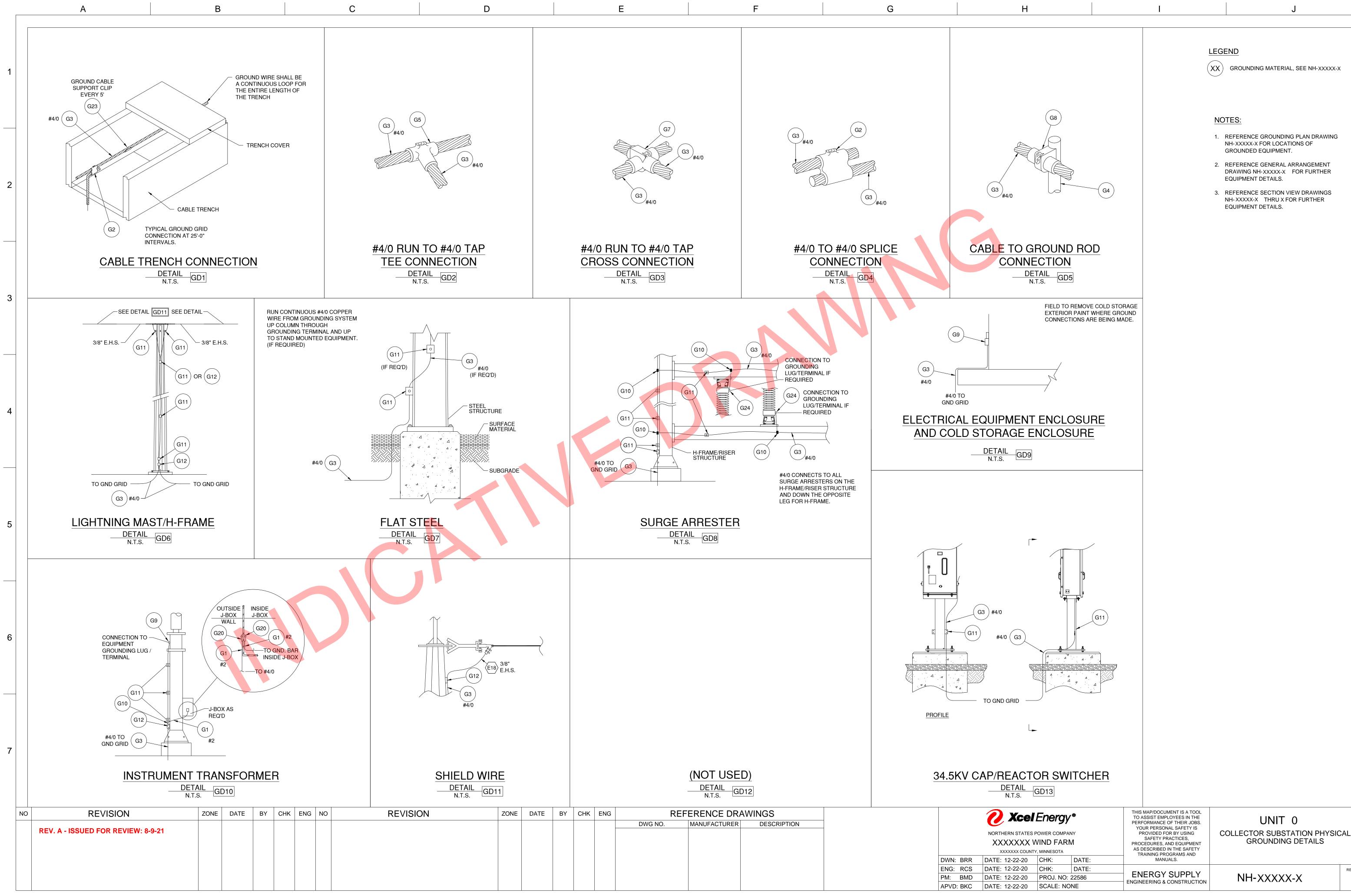
LEG	END:
F	FIXED FITTING
S	SLIP FITTING
E	EXPANSION FITTING
N.S.	NEAR SIDE
F.S.	FAR SIDE
M#	MAJOR MATERIAL SEE NH-XXXXX-X
E#	MINOR MATERIAL SEE NH-XXXXX-X
D#	DETAIL, SEE DWG. NH-XXXXX-X THRU XXXXX-X

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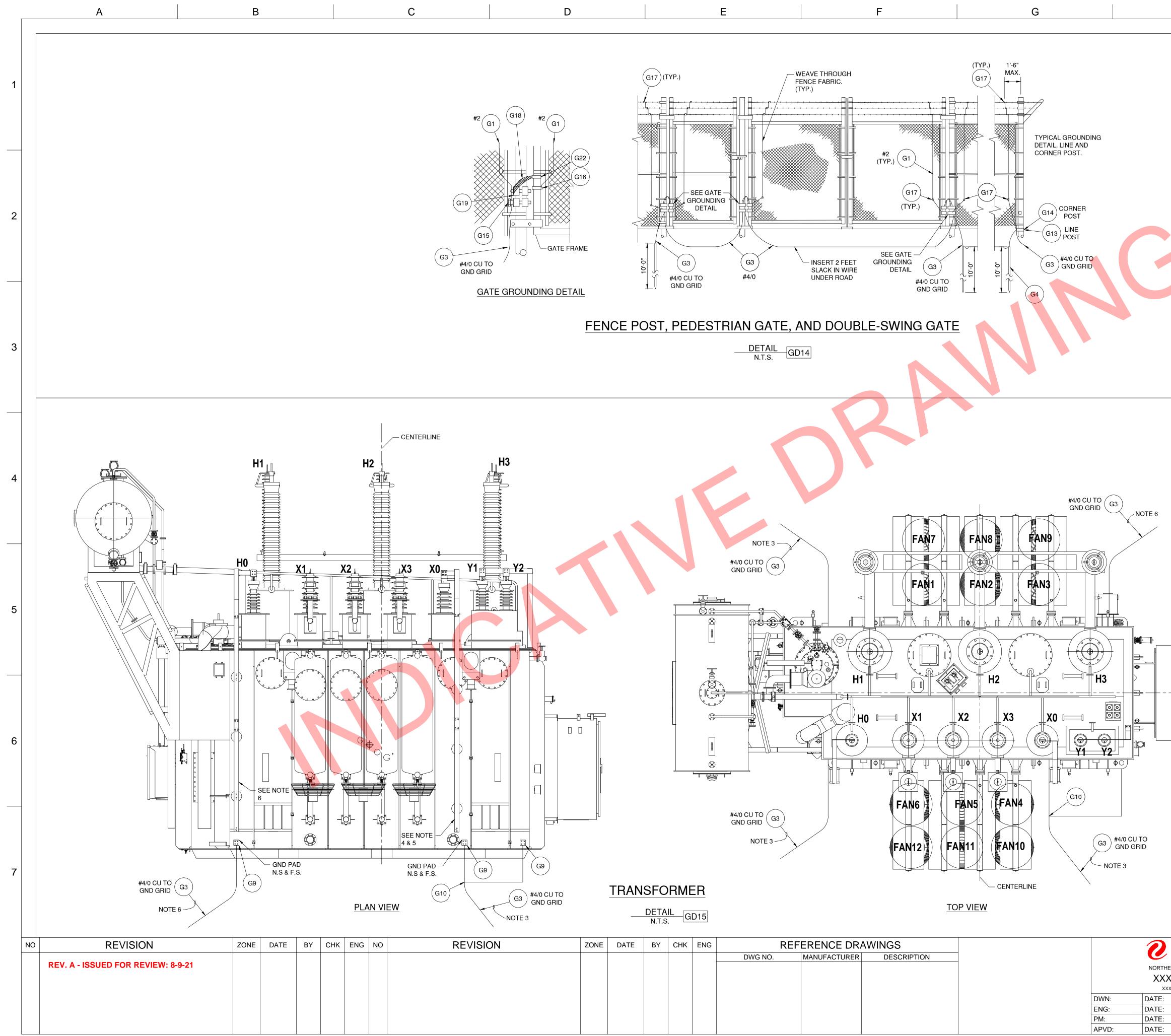
UNIT 0 COLLECTOR SUBSTATION PHYSICAL ELECTRICAL DETAILS

NH-XXXXX-X

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LEGEND

GROUNDING MATERIAL, SEE NH-XXXXX-X

GDX

(XX)

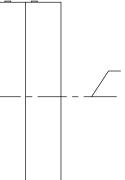
DETAIL CALLOUT, SEE NH-XXXXX-X THRU X

NOTES:

- REFERENCE GROUNDING PLAN DRAWING NH-XXXXX-X FOR LOCATIONS OF GROUNDED EQUIPMENT.
- REFERENCE GENERAL ARRANGEMENT DRAWING NH-XXXXX-X FOR FURTHER EQUIPMENT DETAILS.
- 3. REFERENCE SECTION VIEW DRAWINGS NH-XXXXX-X THRU X FOR FURTHER EQUIPMENT DETAILS.

NOTES:

- CONTRACTOR TO SECURELY FASTEN GROUND CABLE TO TRANSFORMER USING APPROPRIATE MECHANICAL HARDWARE.
- 2. ARRESTER GROUNDING CONNECTIONS PROVIDED BY THE TRANSFORMER MANUFACTURER.
- 3. ARRESTER GROUNDING CONNECTION TO ATTACH TO GRID BY TRAVERSING THROUGH CAST IN CONCRETE CONDUITS.
- 4. REMOVE X0 TO GROUND CONNECTION SINCE NGR IS INCLUDED IN DESIGN.
- 5. FIELD TO REMOVE GROUND CONNECTION TO X0 BUSHING ONCE NGR IS INSTALLED AND CONNECTED TO GROUND GRID.
- 6. CONNECT H0 BUSHING TO GROUND.



Xcel Energy*

NORTHERN STATES POWER COMPANY XXXXXXX WIND FARM XXXXXXX COUNTY, MINNESOTA

CHK:	DATE:
CHK:	DATE:
PROJ. NO:	
SCALE: NO	NE

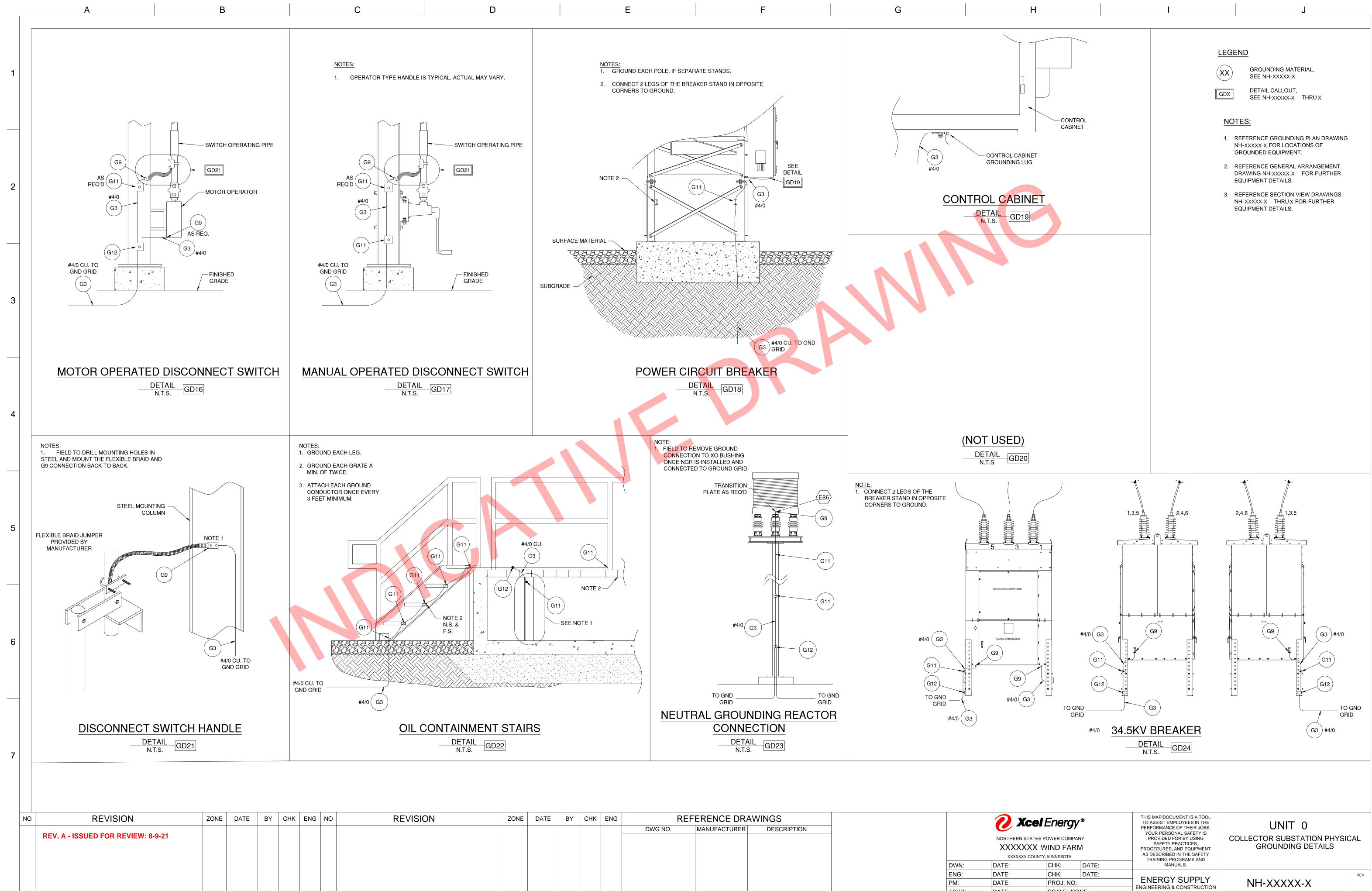
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ENERGY SUPPLY ENGINEERING & CONSTRUCTION

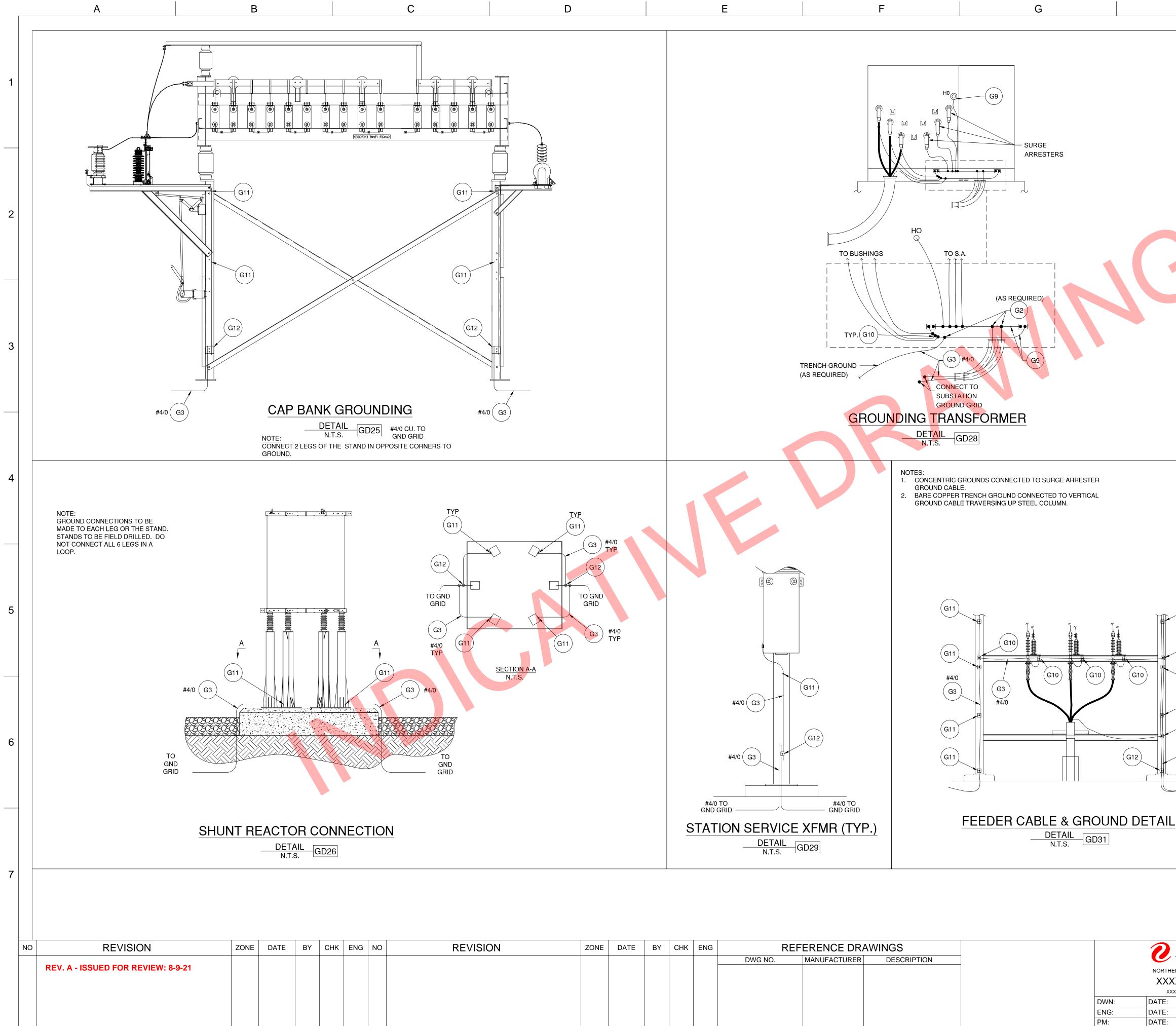
MANUALS.

UNIT 0 COLLECTOR SUBSTATION PHYSICAL GROUNDING DETAILS

NH-XXXXX-X



ZONE	DATE	BY	СНК	ENG REFERENCE DRAWINGS					Xcel Energy®		
					DWG NO.	MANUFACTURER	DESCRIPTION				y .
									XXXXX	TATES POWER COM XX WIND FA COUNTY, MINNESOTA	RM
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								APVD:	DATE:	SCALE: 1	NONE



ZONE	DATE	BY	СНК	ENG	R	REFERENCE DRAWINGS								
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										NORTHERN ST	ATES POWER COM	PANY		
										XXXXXX	X WIND FA	RM		
										XXXXXXX	COUNTY, MINNESOTA			
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									PM:	DATE:	PROJ. NO	D:		
									APVD:	DATE:	SCALE: N	NONE		

LEGEND

GROUNDING MATERIAL, SEE NH-XXXXX-X

GDX

(XX)

DETAIL CALLOUT, SEE NH-XXXXX-X THRU X

NOTES:

- 1. REFERENCE GROUNDING PLAN DRAWING NH-XXXXX-X FOR LOCATIONS OF GROUNDED EQUIPMENT.
- 2. REFERENCE GENERAL ARRANGEMENT DRAWING NH-XXXXX-X FOR FURTHER EQUIPMENT DETAILS.
- 3. REFERENCE SECTION VIEW DRAWINGS NH-XXXXX-X THRU X FOR FURTHER EQUIPMENT DETAILS.
- 4. 35KV CAP BANK SINGLE POINT CONNECTION NOT SHOWN FOR CLARITY. REFERENCE GROUNDING PLAN NH-XXXXX-X FOR LOCATION OF SECOND SINGLE POINT CONNECTION ON CAP BANK.

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MANUALS.

UNIT 0 COLLECTOR SUBSTATION PHYSICAL GROUNDING DETAILS

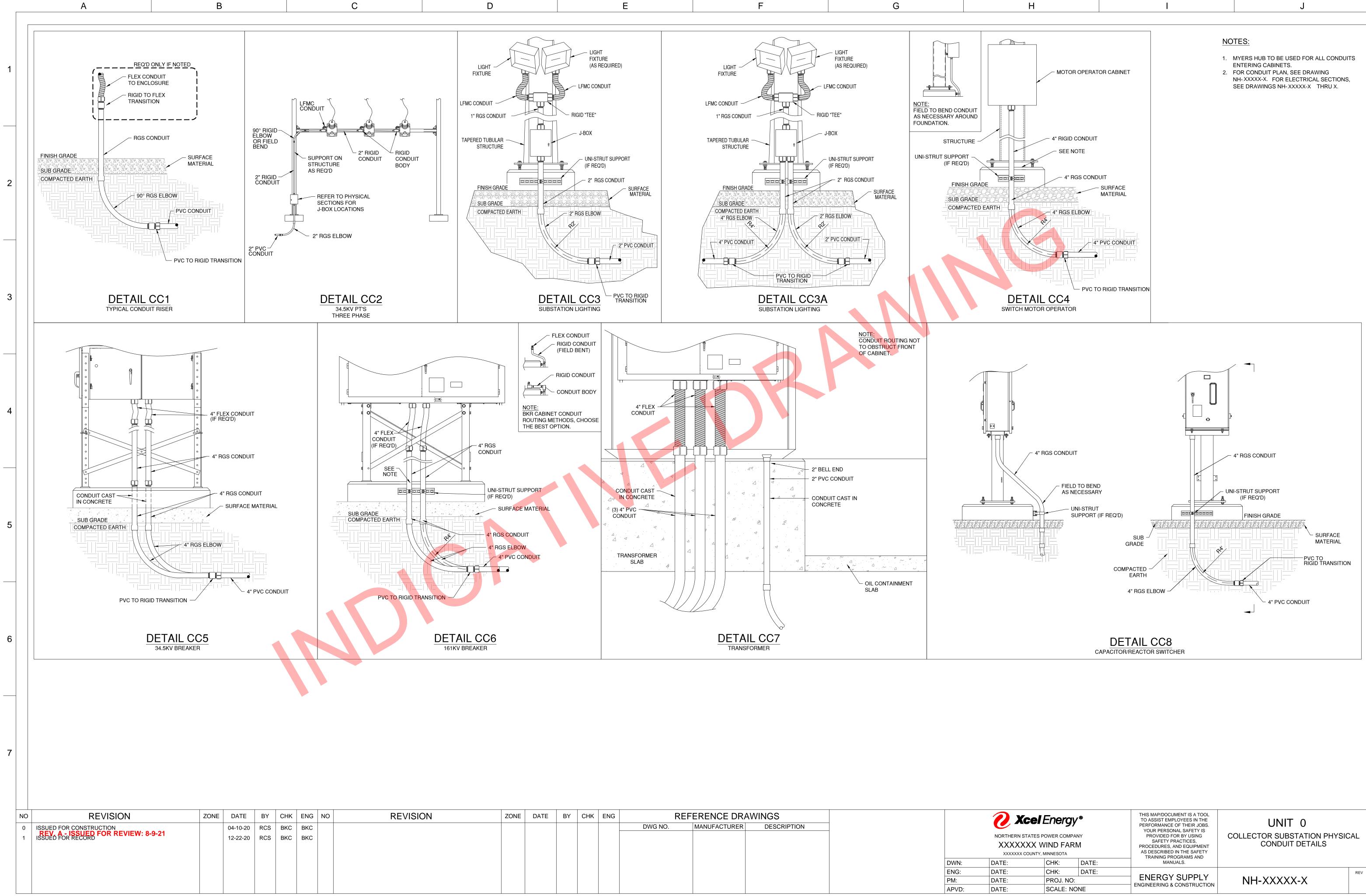
NH-XXXXX-X

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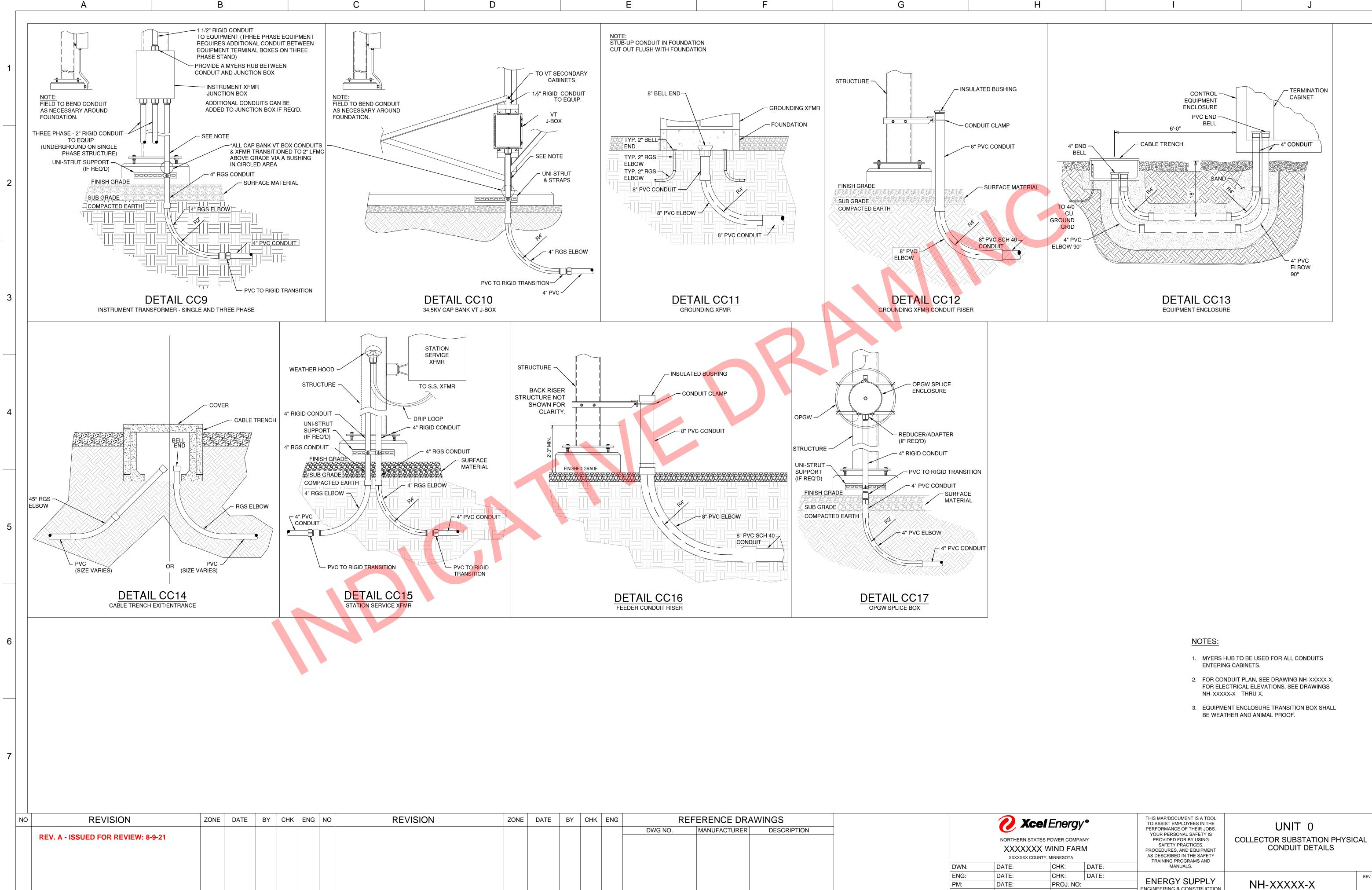
(G12) (G10)

G12 G10 #4/0 (G3)

G12

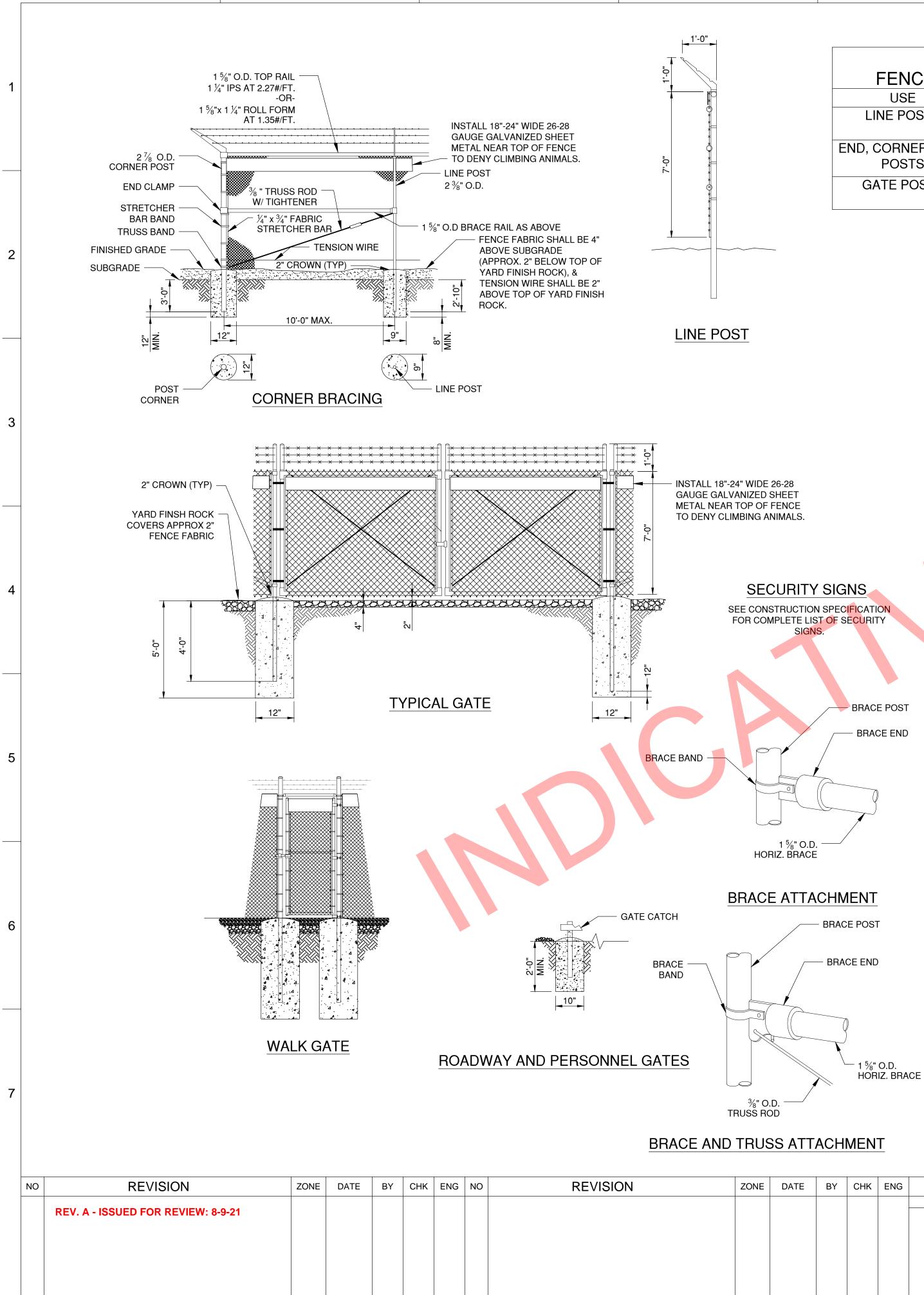


	/INGS	EFERENCE DRAV	RI	ENG	СНК	BY	DATE	ZONE	
	DESCRIPTION	MANUFACTURER	DWG NO.						
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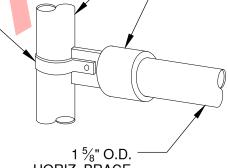
ENGINEERING & CONSTRUCTION



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FENCE POS	STS FO	R 8ft FENCE
USE	TYPE	MINIMUM SIZE
LINE POSTS	ROUND	2 ³ ⁄ ₈ " OD; t = .154in.
END, CORNER, PULL POSTS	ROUND	2 ⁷ ⁄ ₈ " OD; t = .203in.
GATE POSTS	ROUND	4" OD; t = .226 in.



ZONE	DATE	BY	СНК	ENG	REFERENCE DRAWINGS		
					DWG NO.	MANUFACTURER	DESCRIPTION

FENCE MATERIALS AND ERECTION MATERIAL

1. <u>FABRIC</u>

THE FENCE SHALL BE A MINIMUM OF 7 FT. HIGH. IT SHALL CONSIST OF A MINIMUM NO. 9 USWG STEEL WIRE, WOVEN INTO A 2 IN. DIAMOND MESH. THE MINIMUM BREAKING STRENGTH OF WIRE SHALL BE 1200 LBS. THE SIDES OF THE MESH PATTERN SHALL BE APPROXIMATELY 45° TO A VERTICAL LINE.

THE FABRIC SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A392, CLASS II.

2. LINE, END, CORNER, PULL AND GATE POSTS

ALL POST SHALL BE STEEL AND CONFORM TO THE SIZES AS LISTED IN TABLE A, (BELOW), FOR THE SPECIFIC TYPE OF APPLICATION. STRENGTH AND PROTECTIVE COATINGS OF ALL FENCE FRAMEWORK SHALL CONFORM TO ASTM F1043.

TUBULAR MATERIAL SHOULD CONFORM TO ASTM A53 GRADE B, FOR ROUND SHAPES AND ASTM A500 GRADE B OR ASTM A501 FOR SQUARE SHAPES. ROLL-FORMED SECTIONS SHALL MEET THE YIELD STRESS REQUIREMENTS OF ASTM A36 AS A MINIMUM.

LINE POSTS SHALL BE OF SUFFICIENT HEIGHT TO; (A) ACCOMMODATE A 7 FT FABRIC; (B) ACCOMMODATE EXTENSION ARMS, AND (C) BE EMBEDDED 34 IN INTO THE CONCRETE FOOTING.

END, CORNER AND PULL POST SHALL BE OF SUFFICIENT HEIGHT TO (A) ACCOMMODATE A 7 FT FABRIC; (B) ACCOMMODATE EXTENSION ARMS OR EXTEND 1 FT EXTRA, AND (C) BE EMBEDDED 36 IN INTO THE CONCRETE FOOTING.

GATE POSTS SHALL BE OF SUFFICIENT HEIGHT TO; (A) ACCOMMODATE A 7 FT FABRIC; (B) ACCOMMODATE EXTENSION ARMS, AND (C) BE EMBEDDED 48 IN INTO THE CONCRETE FOOTING.

ALL TUBULAR POSTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A53. ROLL FORMED SECTIONS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.

3. <u>TOP RAIL</u>

TOP RAILS SHALL BE ROUND STEEL PIPE OR TUBING. THE MINIMUM SIZE SHALL NOT BE LESS THAN 1 5/8" OD NOR HAVE A MINIMUM WALL THICKNESS LESS THAN .138 IN. COUPLINGS SHALL BE THE OUTSIDE SLEEVE TYPE, SPACED ABOUT 20 FT APART AND AT LEAST 6 IN LONG, WITH PROVISIONS FOR EXPANSION AND CONTRACTION. THE TOP RAIL SHALL PASS THROUGH THE BASE OF THE EXTENSION ARM AND BE SECURELY FASTENED TO THE END, GATE AND PULL POSTS.

TOP RAILS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A53.

4. <u>BARBED WIRE</u>

BARBED WIRE SHALL CONSIST OF TWO STRANDS OF 12 1/2" USWG STEEL WIRE WITH 4-POINT BARBS AT A MAXIMUM SPACING OF 5 IN APART. THE WIRE SHALL BE GALVANIZED AFTER WEAVING IN ACCORDANCE WITH ASTM A121, CLASS 3, OR ALUMINUM COATED PER ASTM A-585, CLASS 2.

THREE LINES OF BARBED WIRE SHALL BE PROVIDED.

5. EXTENSION ARMS

THE EXTENSION ARMS SHALL EXTEND UPWARD AND OUTWARD FROM THE FENCE AT AN ANGLE OF 45°. THERE SHALL BE PROVISIONS FOR THREE EQUALLY SPACED LINES OF BARBED WIRE ON THE EXTENDED ARMS. THE UPPERMOST WIRE SHALL BE APPROXIMATELY 1 FT VERTICALLY ABOVE THE FABRIC AND 1 FT HORIZONTALLY OUTSIDE THE FENCE LINE.

THE EXTENSION ARM SHALL BE MADE OF PRESSED STEEL OR MALLEABLE IRON AND SHOULD BE DESIGNED FOR A 300 LBS MINIMUM PULL DOWN LOAD BEING APPLIED AT ARMS TIP.

THE EXTENSION ARM SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153, CLASS B1.

6. STRETCHER BAR

STRETCHER BARS SHALL BE GALVANIZED STEEL BARS NOT LESS THAN $\frac{1}{4}$ "x $\frac{3}{4}$ ". THEY SHALL BE APPROXIMATELY 1 IN LESS THAN THE FABRIC HEIGHT.

THE STRETCHER BAR SHALL BE USED FOR SECURING THE FABRIC TO ALL TERMINAL POSTS. ONE BAR IS REQUIRED FOR EACH GATE AND END POST. TWO ARE REQUIRED FOR EACH CORNER AND PULL POST.

7. <u>POST BRACES</u>

POST BRACES ARE REQUIRED AT EACH GATE, CORNER, PULL AND END POST. IT SHALL CONSIST OF A STRUT, WHICH SHALL NOT BE LESS IN SIZE THAN THE TOP RAIL, AND A TRUSS ROD WITH TURNBUCKLE. THE ROD SHALL BE STEEL AND HAVE A MINIMUM DIAMETER OF $\frac{3}{4}$ ".

THE TRUSS SHALL BE SECURED NEAR THE BASE OF THE CORNER GATE, PULL OR END POST. THE SECOND END SHALL BE SECURED AT APPROXIMATELY MID-HEIGHT ON THE ADJACENT LINE POST.

BRACING MEMBERS SHALL ALL BE HOT-DIP GALVANIZED PER ASTM 153.

	NORTHERN STATES POWER COMPANY							
	XXXXXX WIND FARM							
	XXXXXXX COUNTY, MINNESOTA							
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	APVD:	DATE:	SCALE: NONE					

8. TENSION WIRE

TENSION WIRE SHALL BE NO. 6 GAUGE COIL SPRING STEEL WIRE. ONE TENSION WIRE SHALL BE LOCATED AT THE BOTTOM OF THE FABRIC AND ATTACHED WITH HOG RINGS TO THE FABRIC ON 24" CENTERS.

9. <u>GATE FRAMES</u>

GATE FRAMES SHALL BE CONSTRUCTED OF TUBULAR STEEL MEMBERS WHICH SHALL BE WELDED AT THE JOINTS. ADDITIONAL HORIZONTAL AND VERTICAL STRUTS MAY BE REQUIRED TO PROVIDE FOR A RIGID GATE PANEL ALLOWING FOR NO VISIBLE SAG OR TWIST. GATE FRAMES SHALL BE MADE TO HAVE APPROXIMATELY 3" CLEARANCE ABOVE THE ROAD.

FABRIC FOR THE GATE PANELS SHALL BE THE SAME AS THE FENCE.

GATE FRAME AND BRACING MEMBERS SHALL NOT BE LESS THAN THE STRUCTURAL EQUIVALENT OF 2 3/8" OD STANDARD PIPE. STEEL TENSION RODS AND TURNBUCKLES MAY ALSO BE UTILIZED. GATE FRAME SHALL HAVE PROVISIONS FOR THREE LINES OF BARBED WIRE ABOVE FABRIC. ALL GATE FRAME MATERIAL SHALL BE HOT-DIP GALVANIZED PER ASTM A-120.

10. <u>HARDWARE</u>

HINGES SHALL BE HEAVY DUTY AND ALLOW 180° SWING OF ALL GATE LEAVES. THE HINGES SHALL NOT TWIST OR TURN UNDER THE ACTION OF THE GATE AND SHALL PROVIDE EASE OF OPERATION.

LATCHES, STOPS AND KEEPERS SHALL ALL BE HEAVY DUTY CONSTRUCTION OF GALVANIZED STEEL OR MALLEABLE IRON AND SHALL CONFORM TO ASTM A-48 SPECS FOR GRAY IRON CASTING, ASTM 1-47 SPECS FOR MALLEABLE IRON CASTING AND 2SAE-1025 SPECS FOR ROLLED PRESSED AND FOR STEEL. FORK LATCHES SHALL HAVE A HEAVY DUTY DROP BAR. THE CENTER STOP SHALL BE A SPRING OPERATED LATCHING TYPE MADE TO BE CAST IN CONCRETE AND ENGAGE THE DROP BAR. A KEEPER SHALL BE PROVIDED WHICH WILL SECURE THE FREE END OF THE GATE IN THE OPEN POSITION.

HARDWARE SHALL ALLOW FOR GATE OPERATION FROM EITHER SIDE WITH PROVISIONS FOR SECURING WITH PADLOCK.

ALUMINUM TIES AND BANDS SHALL BE OF ALUMINUM WIRE PER ASTM B-211, OR ALUMINUM STRIP PER ASTM B-209. STEEL TIES AND BANDS SHALL BE OF STEEL WIRE WITH 0.8 OZ. OF ZINC COATING PER SQUARE FT OF SURFACE, NO. 6 GAUGE WIRE FOR FASTENING FABRIC TO LINE POST, NO. 9 GAUGE WIRE FOR FASTENING TO TOP RAIL, $\frac{1}{8}$ " x 1" FOR BANDS, AND $\frac{1}{4}$ " x $\frac{3}{4}$ " STEEL FOR STRETCHER BARS. THE SPACING SHALL BE EVERY 24" ON THE TOP RAIL FOR THE TIES AND EVERY 14" ON THE POSTS FOR THE BAND.

11. ERECTION

THE FABRIC SHALL BE PLACED ON THE OUTSIDE OF THE POSTS, STRETCHED TAUT AND SECURED TO THE POSTS, TOP RAIL AND TENSION WIRE. THE FABRIC SHALL BE SECURED TO THE LINE POSTS WITH WIRE TIES OR METAL BANDS AT MAXIMUM INTERVALS OF 14". THE TOP AND BOTTOM EDGES SHALL BE SECURED RESPECTIVELY. TO THE TOP RAIL AND TENSION WIRE WITH TIE WIRES NOT EXCEEDING INTERVALS OF 24". THE FABRIC SHALL BE SECURED TO TERMINAL POSTS BY MEANS OF THE STRETCHER BAR WHICH IS PASSED THROUGH THE END LOOPS OF FABRIC AND IS SECURED TO THE TERMINAL POSTS BY METAL BANDS SPACED AT A MAXIMUM INTERVAL OF 14".

FABRIC FOR FENCING SHALL ALL BE EITHER A LEFT-HAND OR RIGHT-HAND WEAVE. ROLLS OF FABRIC SHALL BE JOINED TOGETHER BY WEAVING A SINGLE STRAND INTO THE END OF THE ROLL TO FORM A CONTINUOUS PIECE.

THE SPACING OF LINE POSTS (10' MAX) SHALL IN GENERAL BE MEASURED PARALLEL TO THE GROUND. ALL POSTS SHALL BE PLACED IN A VERTICAL POSITION EXCEPT AS MAY BE SPECIFICALLY DESIGNATED OTHERWISE, WITH THE STRONG AXIS PARALLEL TO THE FABRIC. ALL POSTS SHALL BE SET IN HOLES AND BACKFILLED WITH CONCRETE. CONCRETE SHALL HAVE A MAXIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS WITH A MAXIMUM SIZE OF AGGREGATE OF ³/₄". THE CONCRETE SHALL BE WELL WORKED (RODDED) IN THE HOLE. THE TOP OF THE FOOTING SHALL BE CROWNED TO SHED WATER.

THE MINIMUM DIAMETER OF HOLES FOR LINE POSTS SHALL BE 9" AND 12" FOR TERMINAL POSTS.

THE MINIMUM DEPTH OF THE FOOTING HOLES SHALL BE 42".

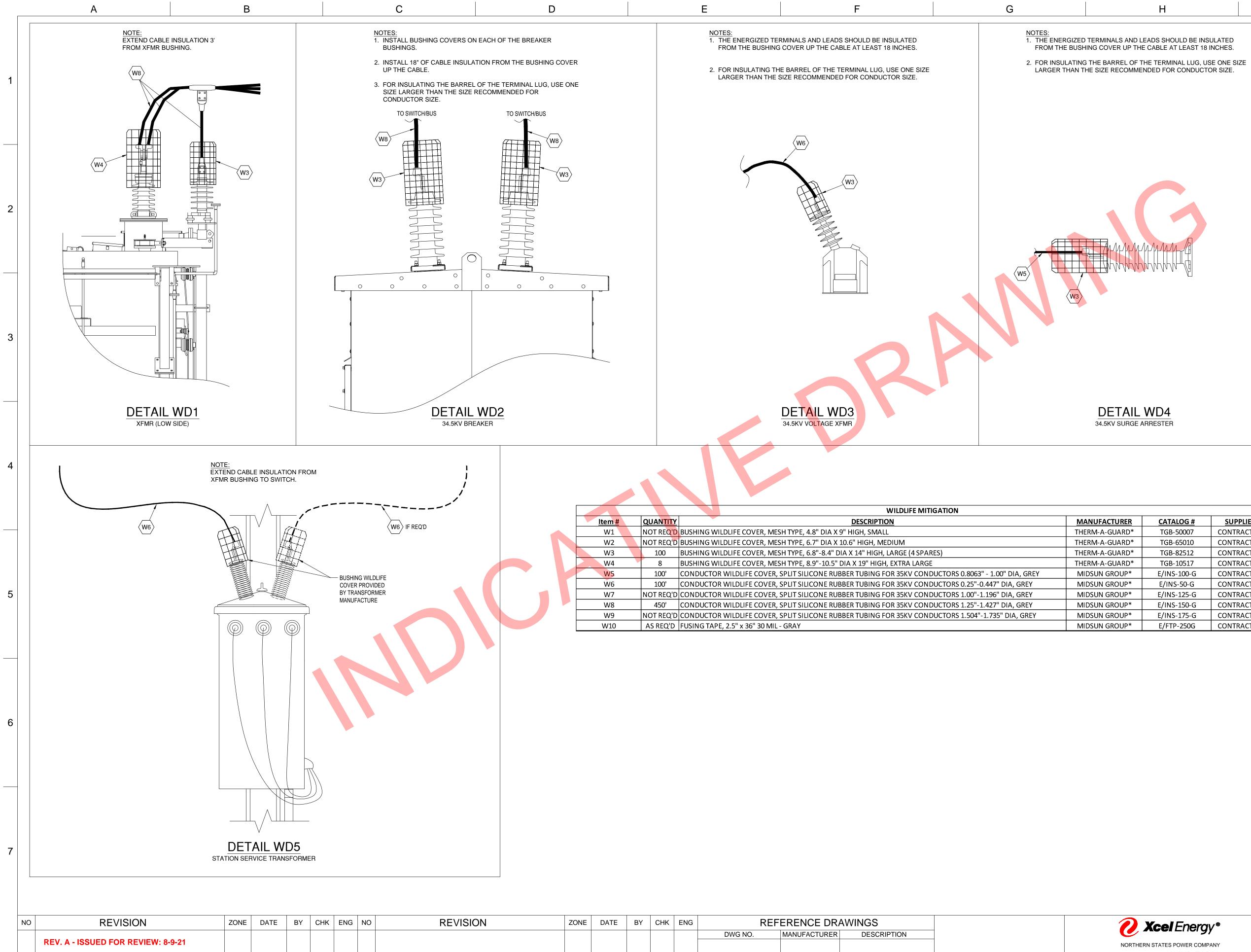
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MANUALS.

UNIT 0 COLLECTOR SUBSTATION PHYSICAL 161KV-34.5KV FENCE DETAILS

NH-XXXXX-X



[WILDLIFE MITIGATION			
	<u>ltem #</u>	QUANTITY	DESCRIPTION	MANUFACTURER	CATALOG #	<u>SUPPLIER</u>
	W1	NOT REQ'D	BUSHING WILDLIFE COVER, MESH TYPE, 4.8" DIA X 9" HIGH, SMALL	THERM-A-GUARD*	TGB-50007	CONTRACTOR
	W2	NOT REQ'D	BUSHING WILDLIFE COVER, MESH TYPE, 6.7" DIA X 10.6" HIGH, MEDIUM	THERM-A-GUARD*	TGB-65010	CONTRACTOR
	W3	100	BUSHING WILDLIFE COVER, MESH TYPE, 6.8"-8.4" DIA X 14" HIGH, LARGE (4 SPARES)	THERM-A-GUARD*	TGB-82512	CONTRACTOR
	W4	8	BUSHING WILDLIFE COVER, MESH TYPE, 8.9"-10.5" DIA X 19" HIGH, EXTRA LARGE	THERM-A-GUARD*	TGB-10517	CONTRACTOR
	W5	100'	CONDUCTOR WILDLIFE COVER, SPLIT SILICONE RUBBER TUBING FOR 35KV CONDUCTORS 0.8063" - 1.00" DIA, GREY	MIDSUN GROUP*	E/INS-100-G	CONTRACTOR
	W6	100'	CONDUCTOR WILDLIFE COVER, SPLIT SILICONE RUBBER TUBING FOR 35KV CONDUCTORS 0.25"-0.447" DIA, GREY	MIDSUN GROUP*	E/INS-50-G	CONTRACTOR
	W7	NOT REQ'D	CONDUCTOR WILDLIFE COVER, SPLIT SILICONE RUBBER TUBING FOR 35KV CONDUCTORS 1.00"-1.196" DIA, GREY	MIDSUN GROUP*	E/INS-125-G	CONTRACTOR
	W8	450'	CONDUCTOR WILDLIFE COVER, SPLIT SILICONE RUBBER TUBING FOR 35KV CONDUCTORS 1.25"-1.427" DIA, GREY	MIDSUN GROUP*	E/INS-150-G	CONTRACTOR
	W9	NOT REQ'D	CONDUCTOR WILDLIFE COVER, SPLIT SILICONE RUBBER TUBING FOR 35KV CONDUCTORS 1.504"-1.735" DIA, GREY	MIDSUN GROUP*	E/INS-175-G	CONTRACTOR
	W10	AS REQ'D	FUSING TAPE, 2.5" x 36" 30 MIL - GRAY	MIDSUN GROUP*	E/FTP-250G	CONTRACTOR

ZONE	DATE	BY	CHK ENG	REFERENCE DRAWINGS			2 X	cel Energ	₩®	
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								XXXXXXX COUNTY, MINNESOTA		
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							APVD:	DATE:	SCALE: N	IONE

LEGEND:

****# - MINOR MATERIALS, THIS SHEET

NOTES:

- 1. NEVER COVER MORE THAN THE FIRST BUSHING SKIRT.
- 2. ACCEPTABLE TO MAKE FIELD MODIFICATION TO BUSHING COVERS TO BETTER ALIGN WITH DESIGN.
- 3. USE OF FUSING TAPE AND PLASTIC CONNECTORS ACCEPTABLE FOR MODIFYING BUSHING COVERS.

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MANUALS.

UNIT 0

COLLECTOR SUBSTATION PHYSICAL 34.5 KV WILDLIFE PROTECTION DETAILS

NH-XXXXX-X