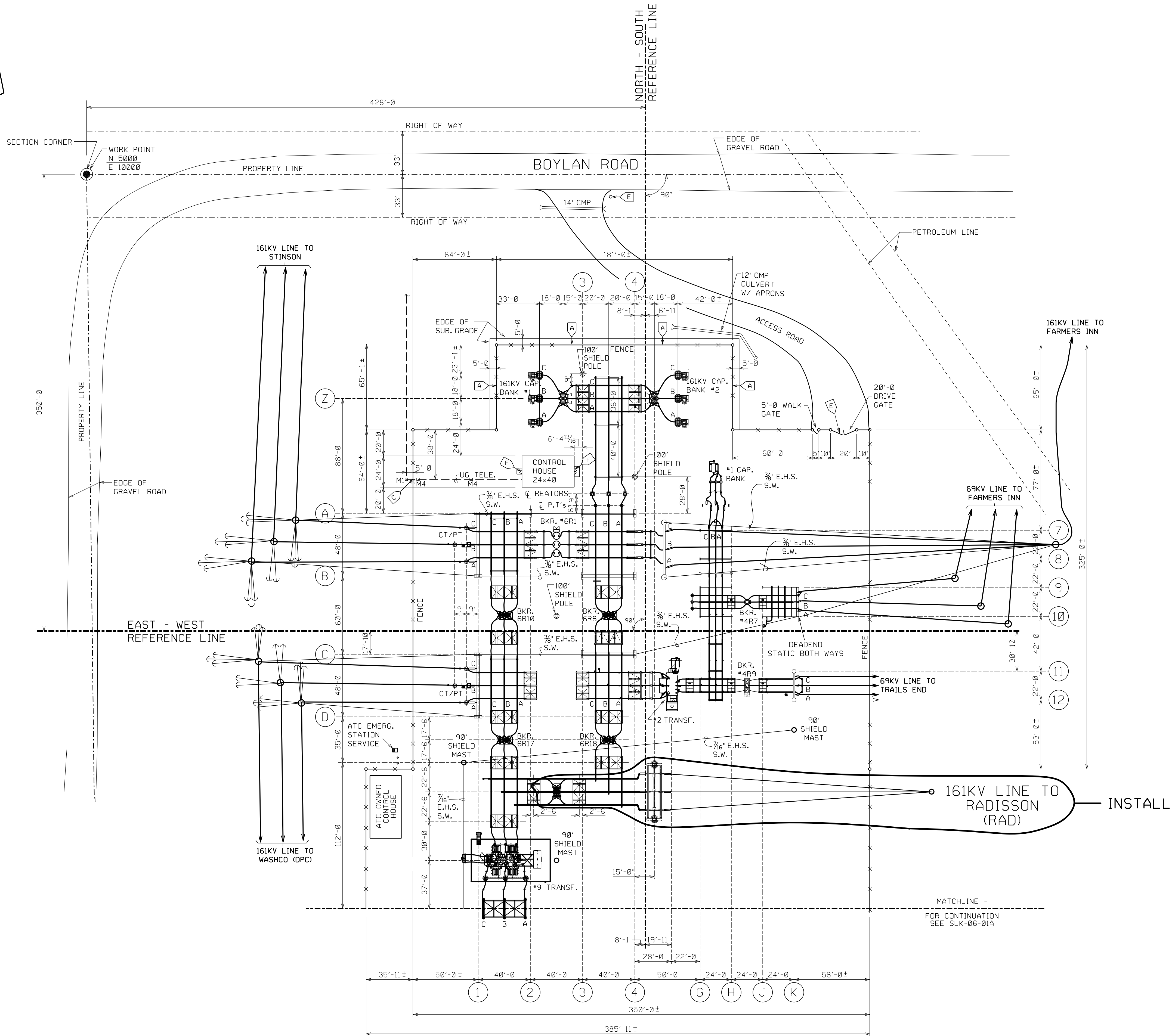
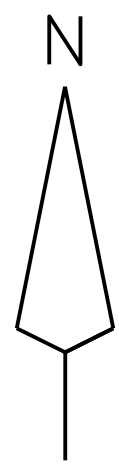


APPENDIX C

Substation Facilities



PRELIMINARY
NOT FOR CONSTRUCTION

GENERAL NOTES

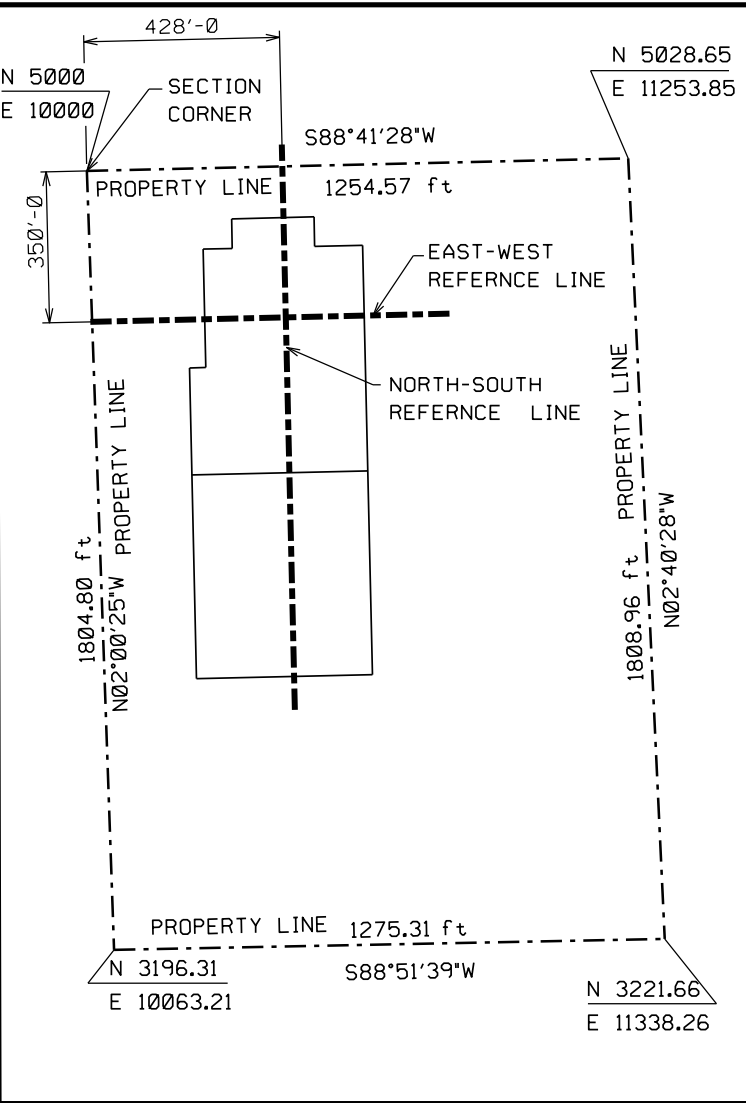
- FOR GENERAL NOTES PRIOR TO ** CONSTRUCTION, SEE REVISION 'U'.
- FOR LOCATION OF BENCH MARK SEE CONTOUR & GRADING LAYOUT.
- FOR SUBSTATION ROUGH GRADE SEE CONTOUR & GRADING LAYOUT.
- SUBSTATION AREA ENCLOSED BY FENCE AND EXTENDING 5'-0" OUTSIDE.
- FENCE - 7'-0" HIGH STEEL CHAIN LINK FABRIC AND 1'-0" HIGH VERTICAL HEIGHT BARBED WIRE ON TOP, MOUNTED AT A 45° ANGLE POINTED OUTSIDE OF SUBSTATION. IN ACCORDANCE WITH ENG & DSGN STD ED 4.09.03.
- SEE STRUCTURAL STEEL DRAWINGS FOR LOAD REQUIREMENTS OF EXTERNAL AND INTERNAL STRAINS.
- U.G. POWER DUCTS PASS UNDER FENCE MIDWAY BETWEEN FENCE POSTS AND, WHERE POSSIBLE, NOT LESS THAN 2'-6" BELOW GRADE.

LEGEND

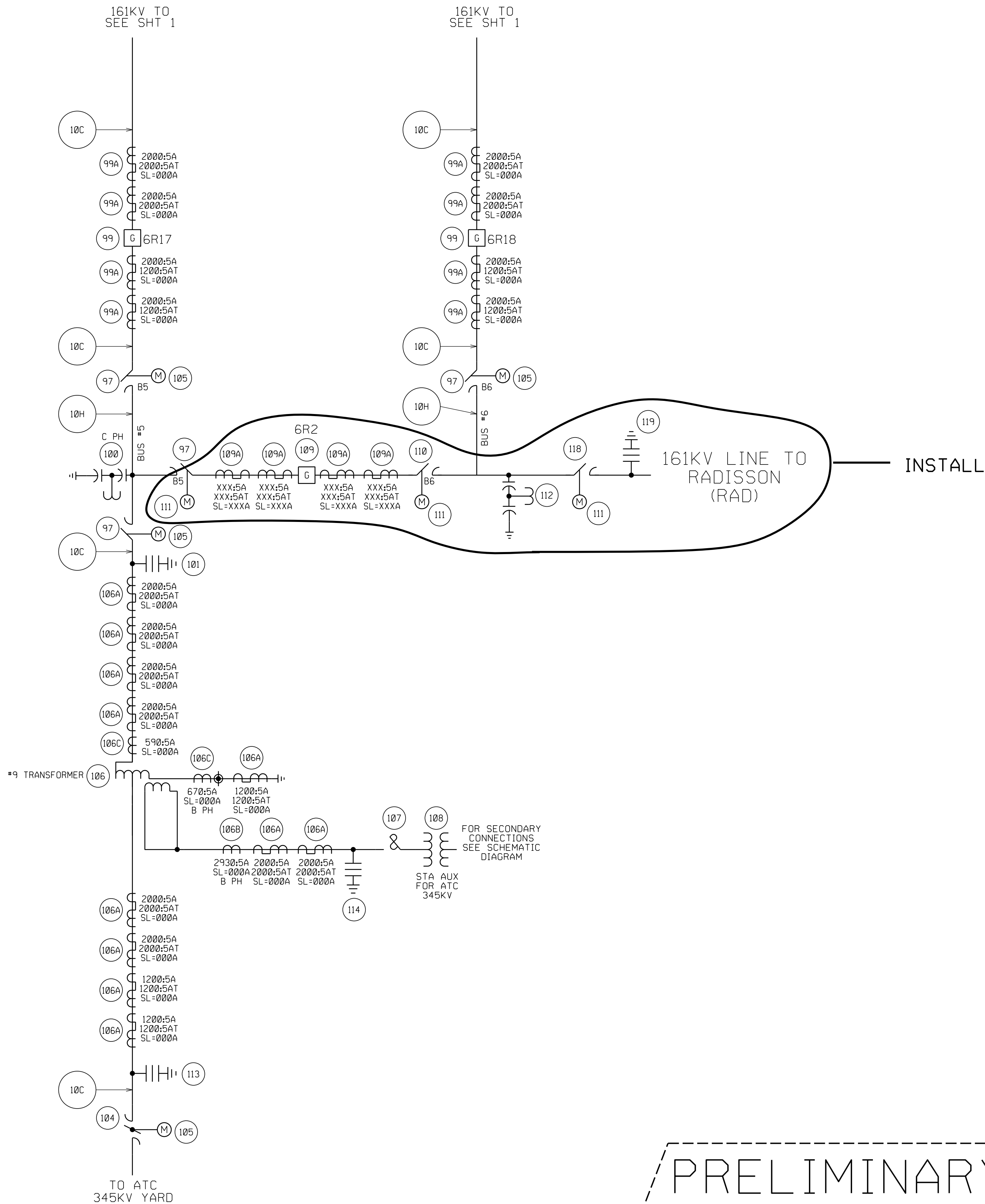
- A** OLD FENCE SIGN WORDED "WARNING, HAZARDOUS VOLTAGES INSIDE, KEEP OUT, CAN SHOCK BURN OR CAUSE DEATH". (THIS SIGN CAN NO LONGER BE ORDERED)
- B** FENCE WARNING SIGN (ITEM 708), PER ENG & DSGN STD ED 4.10.01. THE SIGNS ARE TO BE MOUNTED 5'-0" FROM GRADE TO TOP OF SIGN, 30'-0" - 45'-0" APART AND NO MORE THAN 15'-0" FROM THE CORNERS. ONE SIGN SHOULD BE PLACED ON THE OUTSIDE OF EACH WALK GATE. TWO SIGNS SHOULD BE MOUNTED ON EACH DRIVE GATE, ONE ON THE INSIDE AND ONE ON THE OUTSIDE. (BACK TO BACK ON THE LEFT SIDE OR DRIVERS SIDE PANEL OF THE DOUBLE GATES).
- C** BURIED CABLE SIGN (ITEM 706), PER ENG & DSGN STD ED 4.10.06. THE SIGNS ARE TO BE MOUNTED ON EACH SIDE OF FENCE FABRIC, BACK TO BACK AND APPROXIMATELY 3'-6" FROM GRADE TO TOP OF SIGNS.
- D** BURIED CABLE SIGN (ITEM 706), MOUNTED ON POST (BY FIELD), PER ENG & DSGN STD ED 4.10.06.
- E** SUBSTATION IDENTIFICATION SIGN (ITEM 718), PER ENG & DSGN STD ED 4.10.02 (TOP) ADDRESS SIGN (ITEM 716) PER ENG & DSGN STD ED 4.10.03 (BOTTOM). THE TOP SIGN MOUNTED 5'-0" FROM GRADE TO TOP OF SIGN AND LOCATED ADJACENT TO WALK OR DRIVE GATES.
- F** BATTERY WARNING SIGN (ITEM 707), PER ENG & DSGN STD ED 4.10.04. THE SIGNS ARE TO BE MOUNTED ON THE OUTSIDE OF EACH ELECTRICAL EQUIPMENT ENCLOSURE DOOR, APPROXIMATELY 5'-0" FROM THE BOTTOM OF THE DOOR TO THE TOP OF SIGN.
- M-1** INDICATES CONCRETE MARKERS FOR DIRECT BURIED CABLE RUNS PER ENG & DSGN STD. ED 4.05.04, ORDERED BY FIELD.
- ◆** INDICATES A YELLOW CONCRETE FILLED BOLLARD (ITEM 299).

FOR DRAWING REFERENCE AND REVISION INFORMATION SEE INDEX SHEET NH-201109

THIS MAP/DOCUMENT IS A TOOL TO ASSIST EMPLOYEES IN THE PERFORMANCE OF THEIR JOBS. YOUR PERSONAL SAFETY IS PROVIDED FOR BY USING SAFETY PRACTICES, PROCEDURES AND EQUIPMENT AS DESCRIBED IN THE SAFETY TRAINING PROGRAMS, MANUALS AND SPARS.				GROUP	SIGNIFICANT NUMBER
CONFIDENTIAL: DO NOT COPY OR DISTRIBUTE TO OTHERS WITHOUT EXPRESS WRITTEN CONSENT FROM XCEL ENERGY				W2817	
NSP OPERATING AREA ENGINEERING Minneapolis, MN	STONE LAKE SUBSTATION LOCATION PLAN			HAYWARD MT SLK	
				3	
				4	
				5A	
				5B	6210
				6	
Xcel Energy®			SCALE 1"=40'-0"	NH-159304	REV U
			CL		



NH-159304-2P1.DGN 8/24/2011

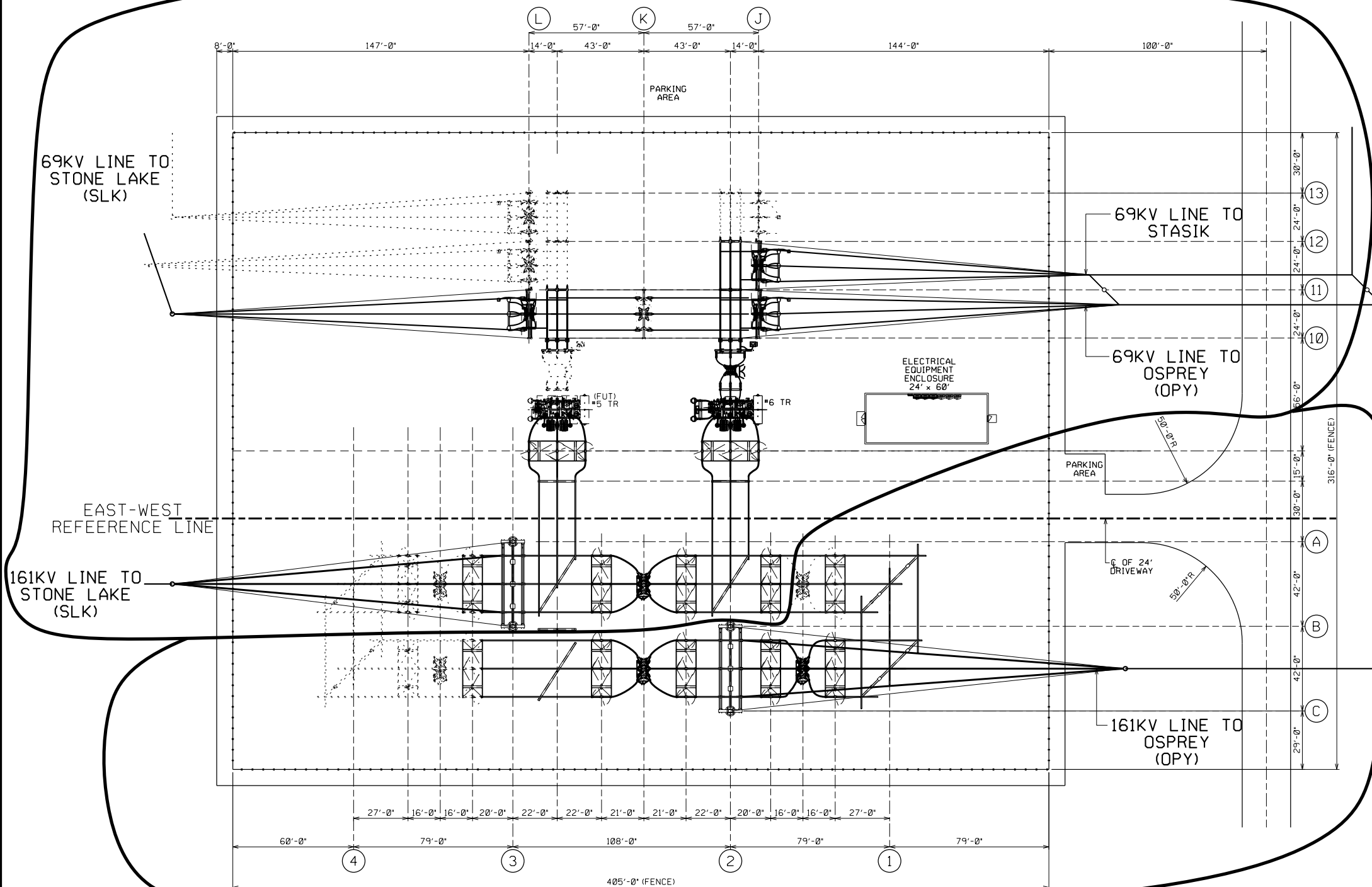


PRELIMINARY
NOT FOR CONSTRUCTION

FOR GENERAL NOTES & LEGEND SEE SHT 1			
FOR DRAWING REFERENCE AND REVISION INFORMATION SEE INDEX SHEET ND-201109			
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CONFIDENTIAL: DO NOT COPY OR DISTRIBUTE TO OTHERS WITHOUT EXPRESS WRITTEN CONSENT FROM XCEL ENERGY			
NSP OPERATING AREA ENGINEERING Minneapolis, MN	STONE LAKE SUBSTATION CIRCUIT DIAGRAM 345KV	HAYWARD W1 SLK	
		3	
		4	
		5A	
		5B	2200
Xcel Energy		SCALE NONE	REV Z
NH-111828-2PZ1		CL	



'PHASE 1'



PRELIMINARY
NOT FOR CONSTRUCTION

GENERAL NOTES

1. FOR LOCATION OF BENCH MARK SEE CONTOUR & GRADING LAYOUT.
2. FOR SUBSTATION ROUGH GRADE SEE CONTOUR & GRADING LAYOUT.
3. SUBSTATION AREA ENCLOSED BY FENCE AND EXTENDING 5'-0" OUTSIDE.
4. FENCE - 7'-0" HIGH STEEL CHAIN LINK FABRIC AND 1'-0" HIGH VERTICAL HEIGHT BARBED WIRE ON TOP, MOUNTED AT A 45° ANGLE POINTED OUTSIDE OF SUBSTATION. IN ACCORDANCE WITH ENG & DSGN STD ED 4.09.03.
5. SEE STRUCTURAL STEEL DRAWINGS FOR LOAD REQUIREMENTS OF EXTERNAL AND INTERNAL STRAINS.
6. U.G. POWER DUCTS PASS UNDER FENCE MIDWAY BETWEEN FENCE POSTS AND, WHERE POSSIBLE, NOT LESS THAN 2'-6" BELOW GRADE.

LEGEND

- A** → OLD FENCE SIGN WORDED 'WARNING, HAZARDOUS VOLTAGES INSIDE, KEEP OUT, CAN SHOCK BURN OR CAUSE DEATH', (THIS SIGN CAN NO LONGER BE ORDERED)
- B** → FENCE WARNING SIGN (ITEM 708), PER ENG & DSGN STD ED 4.10.01. THE SIGNS ARE TO BE MOUNTED 5'-0" FROM GRADE TO TOP OF SIGN, 30'-0" - 45'-0" APART AND NO MORE THAN 15'-0" FROM THE CORNERS. ONE SIGN SHOULD BE PLACED ON THE OUTSIDE OF EACH WALK GATE. TWO SIGNS SHOULD BE MOUNTED ON EACH DRIVE GATE, ONE ON THE INSIDE AND ONE ON THE OUTSIDE. (BACK TO BACK ON THE LEFT SIDE OR DRIVERS SIDE PANEL OF THE DOUBLE GATES).
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- D** → BURIED CABLE SIGN (ITEM 706), MOUNTED ON POST (BY FIELD), PER ENG & DSGN STD ED 4.10.06.
- E** → SUBSTATION IDENTIFICATION SIGN (ITEM 718), PER ENG & DSGN STD ED 4.10.02 (TOP) ADDRESS SIGN (ITEM 716) PER ENG & DSGN STD ED 4.10.03 (BOTTOM), THE TOP SIGN MOUNTED 5'-0" FROM GRADE TO TOP OF SIGN AND LOCATED ADJACENT TO WALK OR DRIVE GATES.
- F** → BATTERY WARNING SIGN (ITEM 707), PER ENG & DSGN STD ED 4.10.04. THE SIGNS ARE TO BE MOUNTED ON THE OUTSIDE OF EACH ELECTRICAL EQUIPMENT ENCLOSURE DOOR, APPROXIMATELY 5'-0" FROM THE BOTTOM OF THE DOOR TO THE TOP OF SIGN.
- M-1** □ INDICATES CONCRETE MARKERS FOR DIRECT BURIED CABLE RUNS PER ENG & DSGN STD. ED 4.05.04, ORDERED BY FIELD.
- ◆ INDICATES A YELLOW CONCRETE FILLED BOLLARD (ITEM 299).

FOR DRAWING REFERENCE AND REVISION INFORMATION SEE INDEX SHEET N2-

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CONFIDENTIAL: DO NOT COPY OR DISTRIBUTE TO OTHERS WITHOUT EXPRESS WRITTEN CONSENT FROM XCEL ENERGY			
NSP OPERATING AREA ENGINEERING Minneapolis, MN	RADISSON SUBSTATION Preferred Site		RAD
	LOCATION PLAN		
	SUBSTATION ADDRESS:		
	Xcel Energy®		
	SCALE 1"=30'-0"	NH- 245592A	REV NONE
		68 6210	



NORTH-SOUTH
REFERENCE LINE

C OF 24'
DRIVEWAY

'PHASE 1'

69KV LINE TO
STONE LAKE
(SLK)

69KV LINE TO
STASIK

69KV LINE TO
OSPREY
(OPY)

161KV LINE TO
STONE LAKE
(SLK)

161KV LINE TO
OSPREY
(OPY)

ELECTRICAL
EQUIPMENT
ENCLOSURE
24' x 60'

*6 TR

(FUT)
*5 TR

PRELIMINARY
NOT FOR CONSTRUCTION


GENERAL NOTES

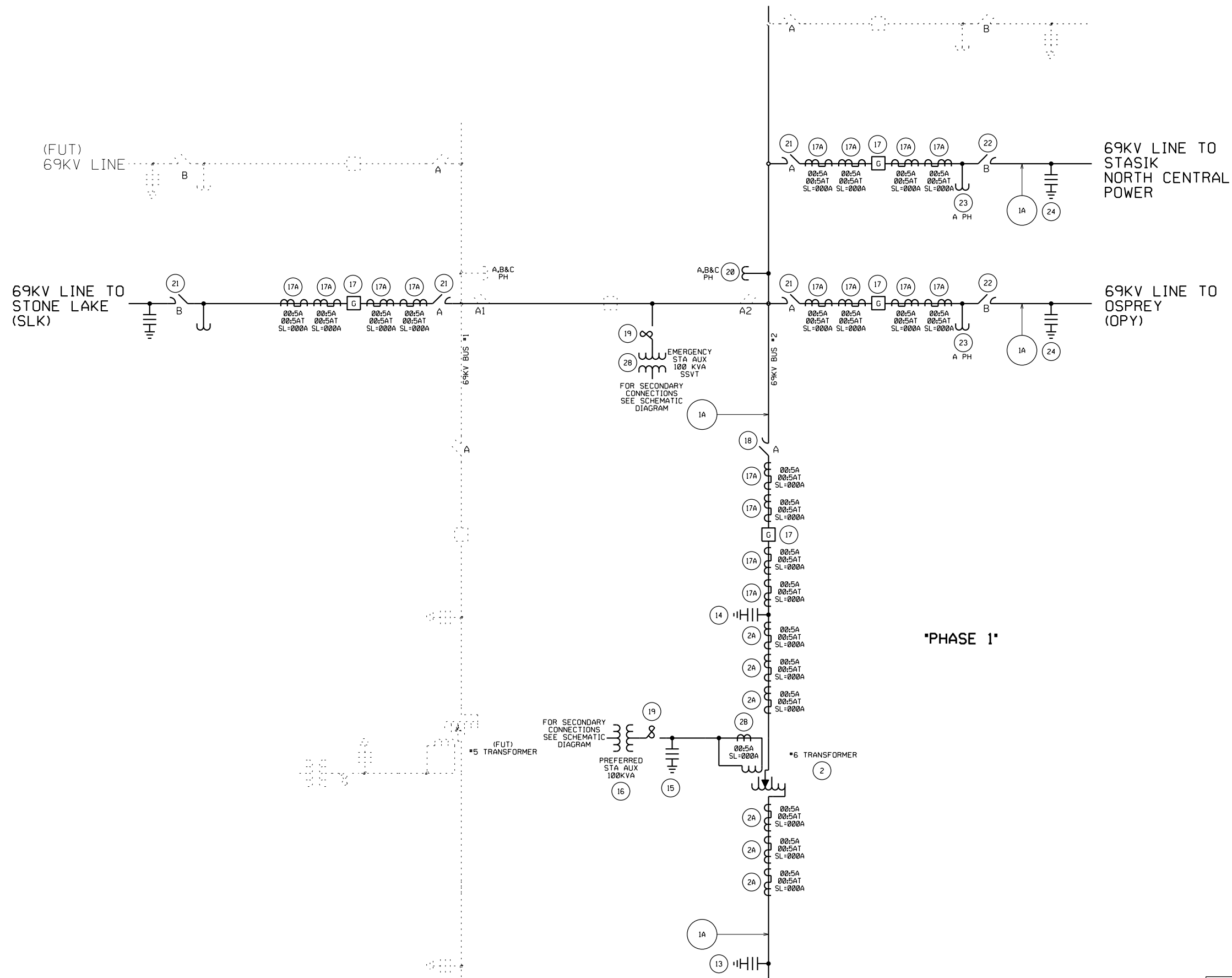
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LEGEND

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CONFIDENTIAL:DO NOT COPY OR DISTRIBUTE TO OTHERS WITHOUT EXPRESS WRITTEN CONSENT FROM XCEL ENERGY				
NSP OPERATING AREA ENGINEERING Minneapolis, MN	RADISSON SUBSTATION Alternate Site RAD LOCATION PLAN SUBSTATION ADDRESS:		1	
			2	
			3	
			4	
			5A	
	SCALE 1"=30'-0"	NH- NH-245592	5B	6210
			6	
			7	
			8	
			9	
		REV NONE		



PRELIMINARY
NOT FOR CONSTRUCTION

FOR GENERAL NOTES & LEGEND SEE SHT 1

FOR DRAWING REFERENCE AND REVISION INFORMATION SEE INDEX SHEET ND-245590

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NSP OPERATING AREA ENGINEERING Minneapolis, MN	RADISSON SUBSTATION CIRCUIT DIAGRAM 69KV		
Xcel Energy®	SCALE NONE	NH-245591-2	
REV NONE		REV NONE	

TO SW XXXX
ON SHT 1

TO SW XXXX
ON SHT 1