

SHERWOOD - MEADOWLARK SUBSTATION

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REFERENCE DRAWINGS

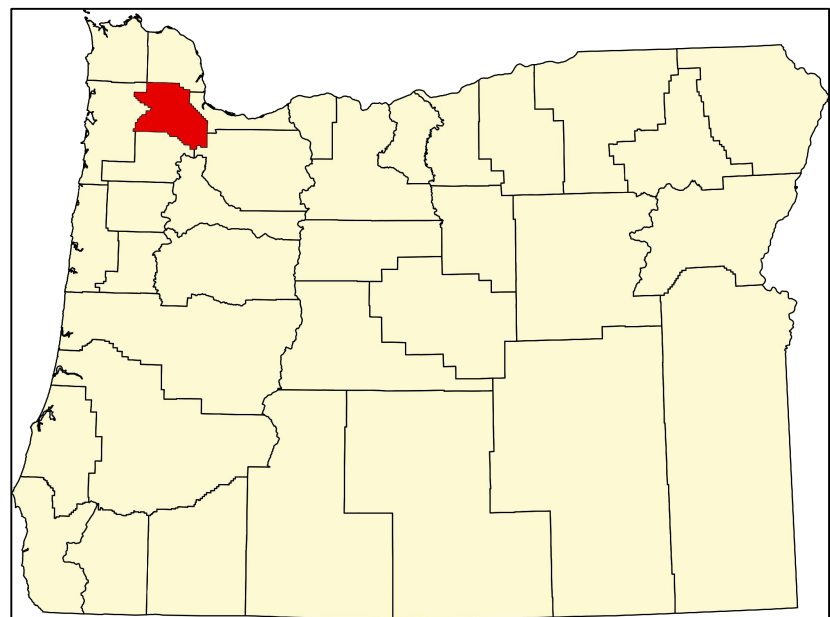
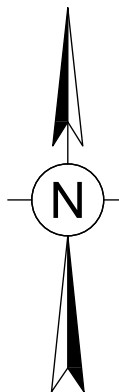
ND-10005	PROPOSED 230KV RISER STRUCTURE
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LEGEND

POH	OVERHEAD POWER
FO	UNDERGROUND FIBER
PUG	UNDERGROUND POWER
IRR	IRRIGATION
WAT	WATER
STO	STORM
SAN	SEWER
OH STRUCTURE	
230KV DUCT BANK	
SEWER MANHOLE	
STORM MANHOLE	
EXISTING GUY ANCHOR	



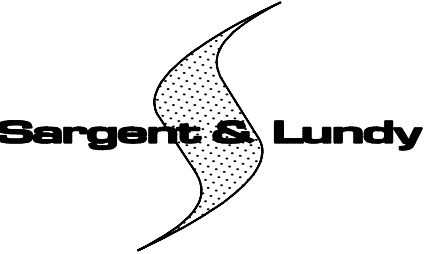
OWNER	PORTLAND GENERAL ELECTRIC CO 121 SW SALMON STREET PORTLAND, OR 97204 (800) 542-8818
DEVELOPER	CIP 412 WEST 15TH STREET, 15TH FLOOR NEW YORK, NY 10011 (202) 262-1415
APPLICANT	MEADOWLARK ENERGY STORAGE LLC, ATTN: EMILY RAMOS 412 WEST 15TH STREET, 15TH FLOOR NEW YORK, NY 10011 (818) 391-7346
CIVIL ENGINEER	SARGENT & LUNDY, ATTN: DAVID WEBSTER 77 W. WACKER DR CHICAGO, IL 60601 (312) 269-2122



CITY OF SHERWOOD,
OREGON

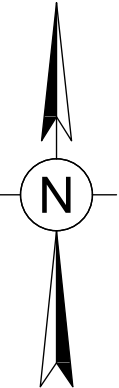
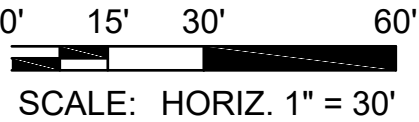
NOTE: THIS SUBMITTAL PACKAGE IS
INTENDED TO SUPPORT THE CITY OF
SHERWOOD REVIEW ONLY FOR THE
PORTION OF WORK WITHIN CITY
JURISDICTION.

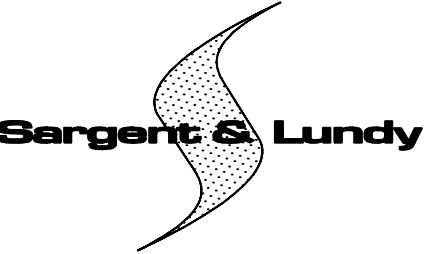


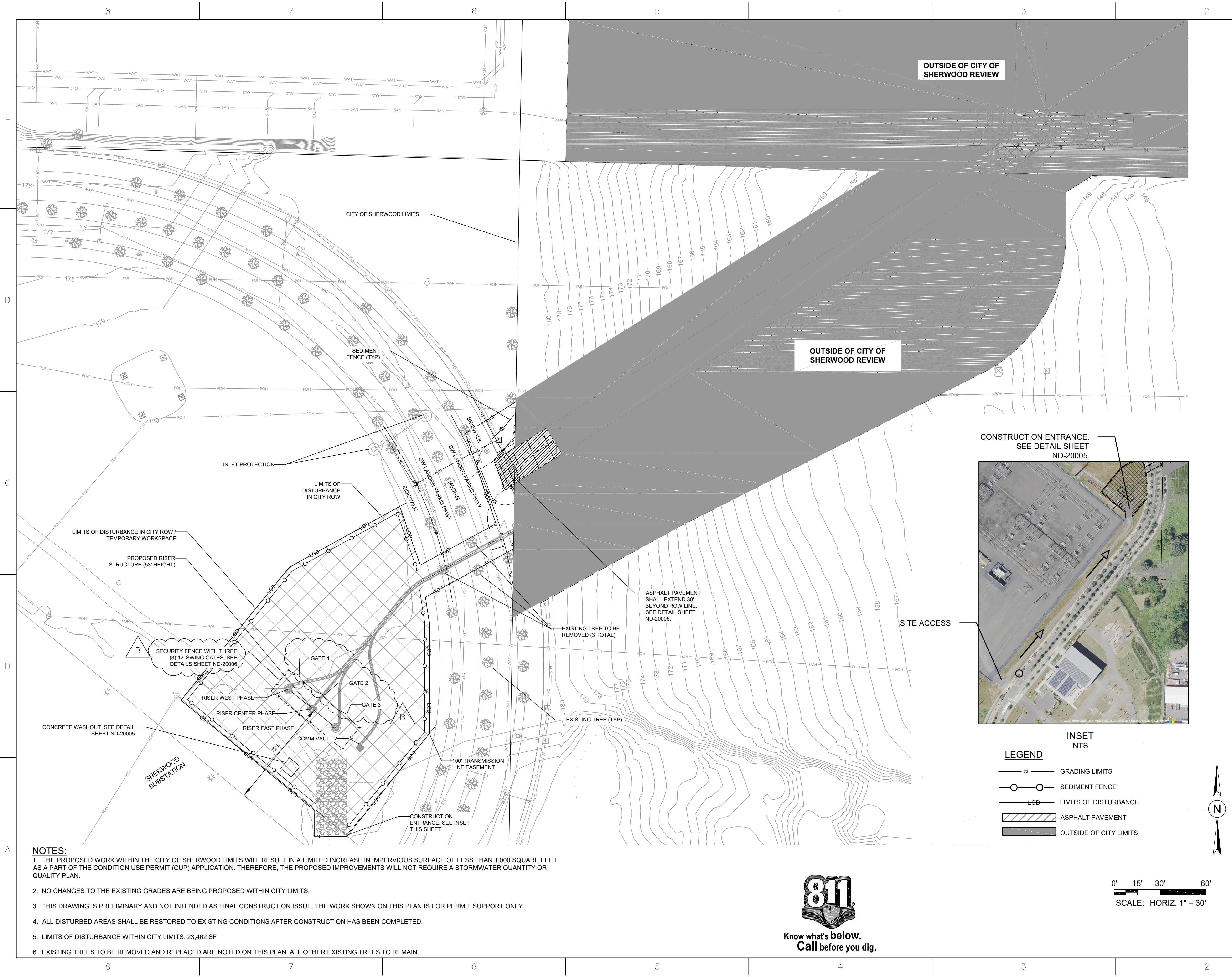
HOLD INFORMATION		
NO.	DESCRIPTION	
CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUB-CONTRACTOR(S)) PERFORMING THE WORK.		
RELEASE INFORMATION		
REV.	DATE	DESCRIPTION
A	06-15-2026	FOR PERMITTING
B	07-07-2026	REVISED PER COMMENTS
ISSUE PURPOSE:		
SPECIFICATION:		
PROJECT NO.: 15867.001		
I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF OREGON.		
ENTER NAME ENTER DATE		
MY LICENSE RENEWAL DATE IS: ENTER DATE PAGES OR SHEETS COVERED BY THIS SEAL: THIS DOCUMENT ONLY.		
CAD FILE NAME: ND-20001.dwg		
PREPARED BY: OV / BM		
REVIEWED BY: DW		
APPROVED BY: MT		
ANY MODIFICATION OR ADDITION TO THIS DRAWING BY AN ORGANIZATION OTHER THAN SARGENT & LUNDY, IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.		
 77 W WACKER DR, CHICAGO, ILLINOIS 60601		
PRELIMINARY NOT FOR CONSTRUCTION		
PROJECT		
SUBSTATION SHERWOOD, OR		
DRAWING TITLE		
COVER SHEET		
DRAWING NUMBER		REVISION
ND-20001		B
SHEET	1 OF 6	

[illegible]

Form GDG-0401-01-13, ANSI (Imperial) AutoCAD Border - Size D - 22 x 34
Revision 11A, Revision Date:



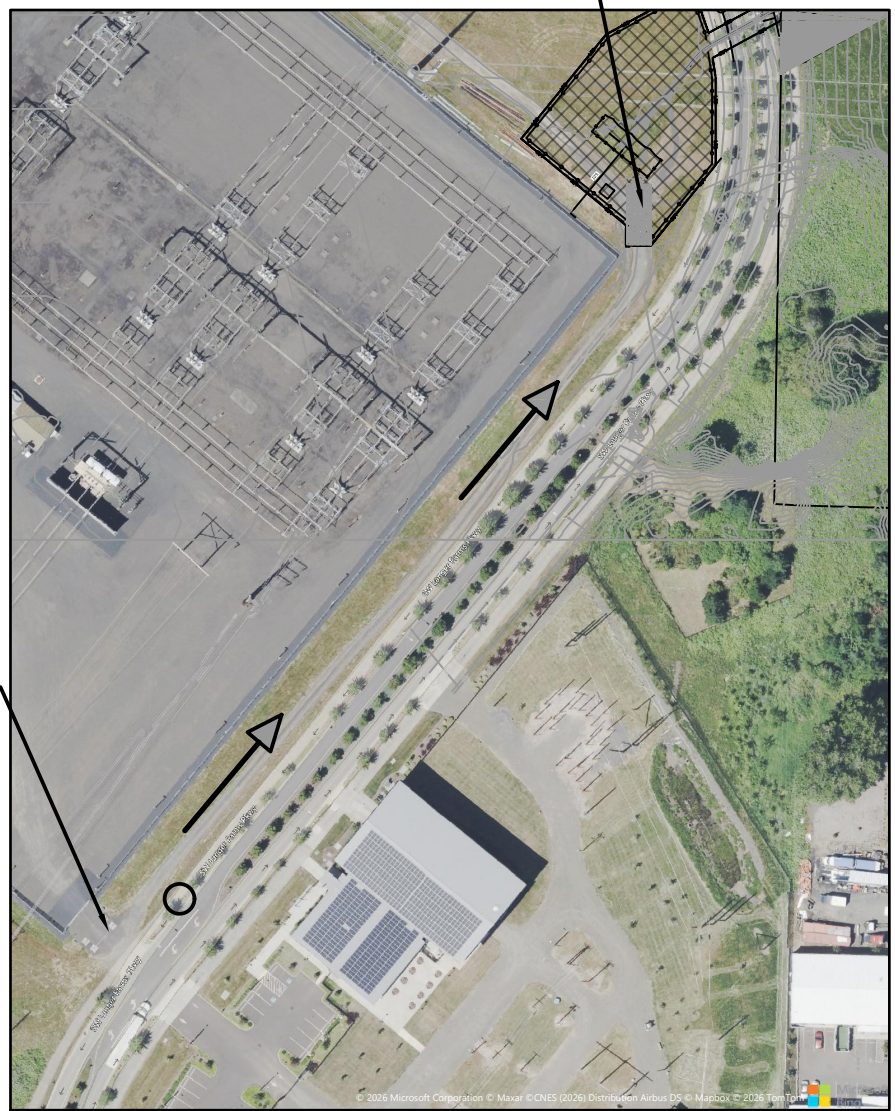
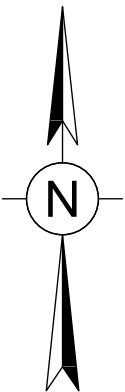
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ENTER NAME ENTER DATE		
MY LICENSE RENEWAL DATE IS: ENTER DATE PAGES OR SHEETS COVERED BY THIS SEAL: THIS DOCUMENT ONLY.		
CAD FILE NAME: ND-20003.dwg		
PREPARED BY: OV / BM		
REVIEWED BY: DW		
APPROVED BY: MT		
ANY MODIFICATION OR ADDITION TO THIS DRAWING BY AN ORGANIZATION OTHER THAN SARGENT & LUNDY, IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.		
 77 W WACKER DR, CHICAGO, ILLINOIS 60601		
PRELIMINARY NOT FOR CONSTRUCTION		
PROJECT		
SUBSTATION SHERWOOD, OR		
DRAWING TITLE		
EXISTING CONDITIONS PLAN		
DRAWING NUMBER		REVISION
ND-20003		A
SHEET	3 OF 6	



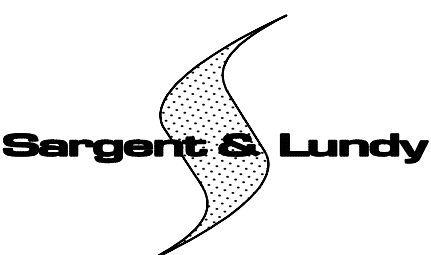
- NOTES:**
1. THE PROPOSED WORK WITHIN THE CITY OF SHERWOOD LIMITS WILL RESULT IN A LIMITED INCREASE IN IMPERVIOUS SURFACE OF LESS THAN 1,000 SQUARE FEET AS A PART OF THE CONDITION USE PERMIT (CUP) APPLICATION. THEREFORE, THE PROPOSED IMPROVEMENTS WILL NOT REQUIRE A STORMWATER QUANTITY OR QUALITY PLAN.
 2. NO CHANGES TO THE EXISTING GRADES ARE BEING PROPOSED WITHIN CITY LIMITS.
 3. THIS DRAWING IS PRELIMINARY AND NOT INTENDED AS FINAL CONSTRUCTION ISSUE. THE WORK SHOWN ON THIS PLAN IS FOR PERMIT SUPPORT ONLY.
 4. ALL DISTURBED AREAS SHALL BE RESTORED TO EXISTING CONDITIONS AFTER CONSTRUCTION HAS BEEN COMPLETED.
 5. LIMITS OF DISTURBANCE WITHIN CITY LIMITS: 23,462 SF
 6. EXISTING TREES TO BE REMOVED AND REPLACED ARE NOTED ON THIS PLAN. ALL OTHER EXISTING TREES TO REMAIN.



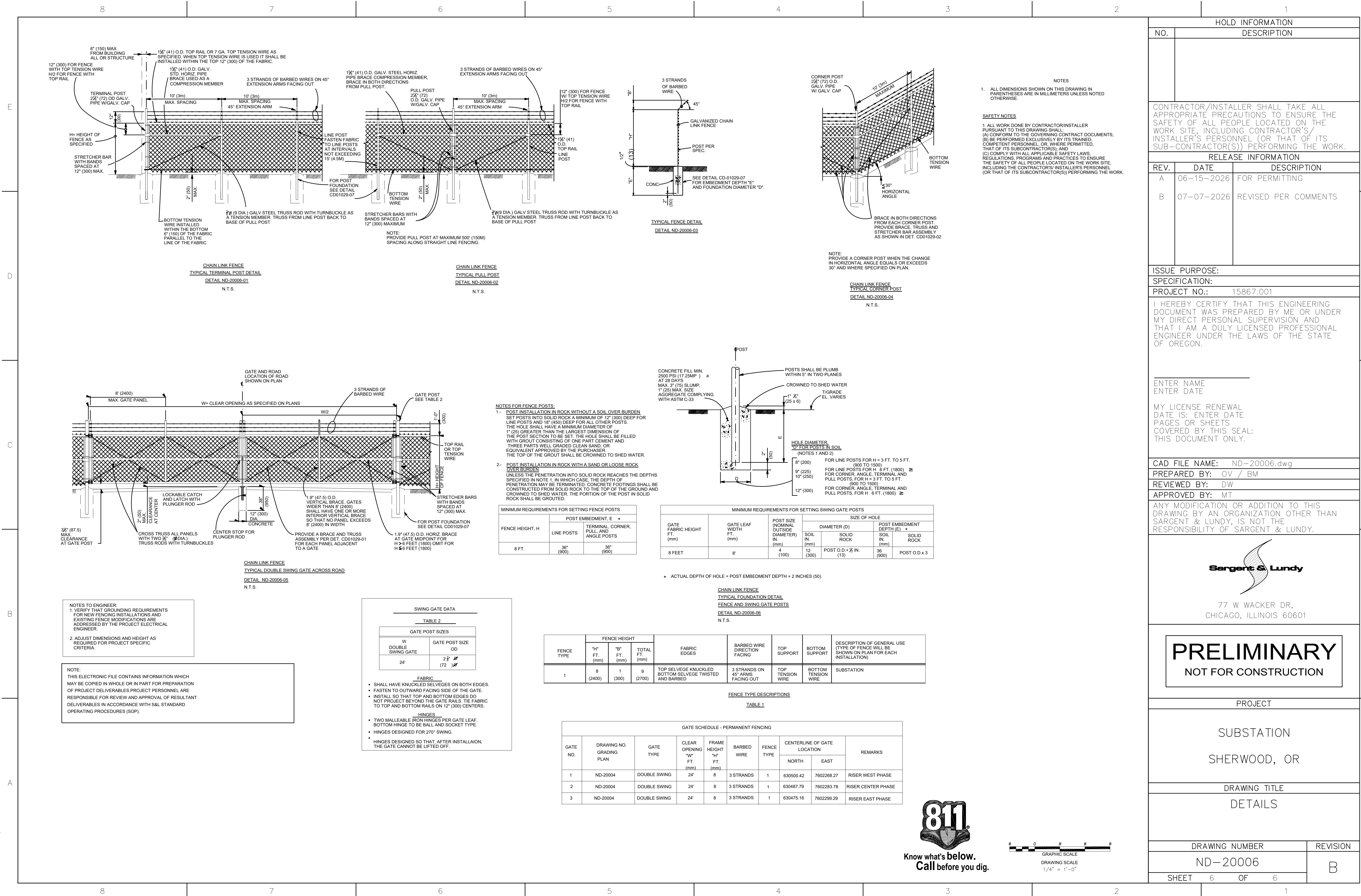
0' 15' 30' 60'
SCALE: HORIZ. 1" = 30'



- LEGEND**
- GL GRADING LIMITS
 - SEDIMENT FENCE
 - L&D LIMITS OF DISTURBANCE
 - ASPHALT PAVEMENT
 - OUTSIDE OF CITY LIMITS

HOLD INFORMATION		
NO.	DESCRIPTION	
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REV.	DATE	DESCRIPTION
A	06-15-2026	FOR PERMITTING
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ISSUE PURPOSE:		
SPECIFICATION:		
PROJECT NO.: 15867.001		
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ENTER NAME		
ENTER DATE		
MY LICENSE RENEWAL DATE IS: ENTER DATE		
PAGES OR SHEETS COVERED BY THIS SEAL: THIS DOCUMENT ONLY.		
CAD FILE NAME: ND-20004.dwg		
PREPARED BY: OV / BM		
REVIEWED BY: DW		
APPROVED BY: MT		
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 77 W WACKER DR, CHICAGO, ILLINOIS 60601		
PRELIMINARY NOT FOR CONSTRUCTION		
PROJECT		
SUBSTATION		
SHERWOOD, OR		
DRAWING TITLE		
GRADING & EROSION CONTROL PLAN		
DRAWING NUMBER		REVISION
ND-20004		B
SHEET	4 OF 6	

8	7	6	5	4	3	2	1																													
PAVEMENT SECTION CHART COMPONENT THICKNESS (INCHES) <table><thead><tr><th>FUNCTIONAL CLASSIFICATION</th><th>SECOND LIFT THICKNESS</th><th>FIRST LIFT THICKNESS</th><th>LEVELING COURSE THICKNESS</th><th>BASE ROCK THICKNESS</th></tr></thead><tbody><tr><td>COLLECTOR</td><td>2"</td><td>3"</td><td>3"</td><td>9"</td></tr></tbody></table> NOTES: 1. MATERIALS AND PLACEMENT OF THE HOT MIXED ASPHALT CONCRETE PAVEMENT (ACP) SHALL CONFORM TO THE REQUIREMENTS DELINEATED IN SECTION 00744 - ASPHALT CONCRETE PAVEMENT (ACP), OF THE ODOT/APWA, OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION (LATEST EDITION), EXCEPT AS MODIFIED BY CITY AND NOTED IN THE CITY'S ENGINEERING DESIGN AND STANDARD DETAILS MANUAL (LATEST EDITION). 2. THE TOP LIFT OF HMAc SHALL BE PLACED PRIOR TO CITY FINAL ACCEPTANCE OF PUBLIC INFRASTRUCTURE IMPROVEMENTS. 3. CRUSHED AGGREGATE, USED FOR BASE ROCK AND LEVELING COURSE SHALL CONFORM TO THE REQUIREMENTS DELINEATED IN SECTION 02630 - BASE AGGREGATE, OF THE ODOT/APWA, OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION (LATEST EDITION).		FUNCTIONAL CLASSIFICATION	SECOND LIFT THICKNESS	FIRST LIFT THICKNESS	LEVELING COURSE THICKNESS	BASE ROCK THICKNESS	COLLECTOR	2"	3"	3"	9"	SEDIMENT FENCE DRAWING NO. 875 REVISED 10-31-19		CONSTRUCTION ENTRANCE DRAWING NO. 855 REVISED 10-31-19		811 Know what's below. Call before you dig. SCALE: NOT TO SCALE		HOLD INFORMATION <table><thead><tr><th>NO.</th><th>DESCRIPTION</th></tr></thead><tbody><tr><td></td><td>CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUB-CONTRACTOR(S)) PERFORMING THE WORK.</td></tr></tbody></table> RELEASE INFORMATION <table><thead><tr><th>REV.</th><th>DATE</th><th>DESCRIPTION</th></tr></thead><tbody><tr><td>A</td><td>06-15-2026</td><td>FOR PERMITTING</td></tr></tbody></table> ISSUE PURPOSE: SPECIFICATION: PROJECT NO.: 15867.001 I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF OREGON. ENTER NAME ENTER DATE MY LICENSE RENEWAL DATE IS: ENTER DATE PAGES OR SHEETS COVERED BY THIS SEAL: THIS DOCUMENT ONLY. CAD FILE NAME: ND-20005.dwg PREPARED BY: OV / BM REVIEWED BY: DW APPROVED BY: MT ANY MODIFICATION OR ADDITION TO THIS DRAWING BY AN ORGANIZATION OTHER THAN SARGENT & LUNDY, IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY. Sargent & Lundy 77 W WACKER DR, CHICAGO, ILLINOIS 60601 PRELIMINARY NOT FOR CONSTRUCTION PROJECT SUBSTATION SHERWOOD, OR DRAWING TITLE DETAILS <table><thead><tr><th>DRAWING NUMBER</th><th>REVISION</th></tr></thead><tbody><tr><td>ND-20005</td><td>A</td></tr></tbody></table><table><thead><tr><th>SHEET</th><th>5</th><th>OF</th><th>6</th></tr></thead></table>	NO.	DESCRIPTION		CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUB-CONTRACTOR(S)) PERFORMING THE WORK.	REV.	DATE	DESCRIPTION	A	06-15-2026	FOR PERMITTING	DRAWING NUMBER	REVISION	ND-20005	A	SHEET	5	OF	6
FUNCTIONAL CLASSIFICATION	SECOND LIFT THICKNESS	FIRST LIFT THICKNESS	LEVELING COURSE THICKNESS	BASE ROCK THICKNESS																																
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SHEET	5	OF	6																																	
8	7	6	5	4	3	2	1																													



Form GDG-0401-01-13, ANSI (Imperial) AutoCAD Border - Size D - 22 x 34
Revision 11A, Revision Date: 04-30-2010
Drawing name: Z:\Shared\GIS\COPENHAGEN INFRASTRUCTURE\1587\01 Metrospec\A\11 Metrospec\A\11.dwg
Drawing title: ND-10005.dwg
Drawing date: 04/30/2010
Drawing by: G.Schmidt
Drawing checked by: E.Evans
Drawing reviewed by: E.Evans
Drawing approved by: E.Evans
Drawing scale: 1/8" = 1'-0"

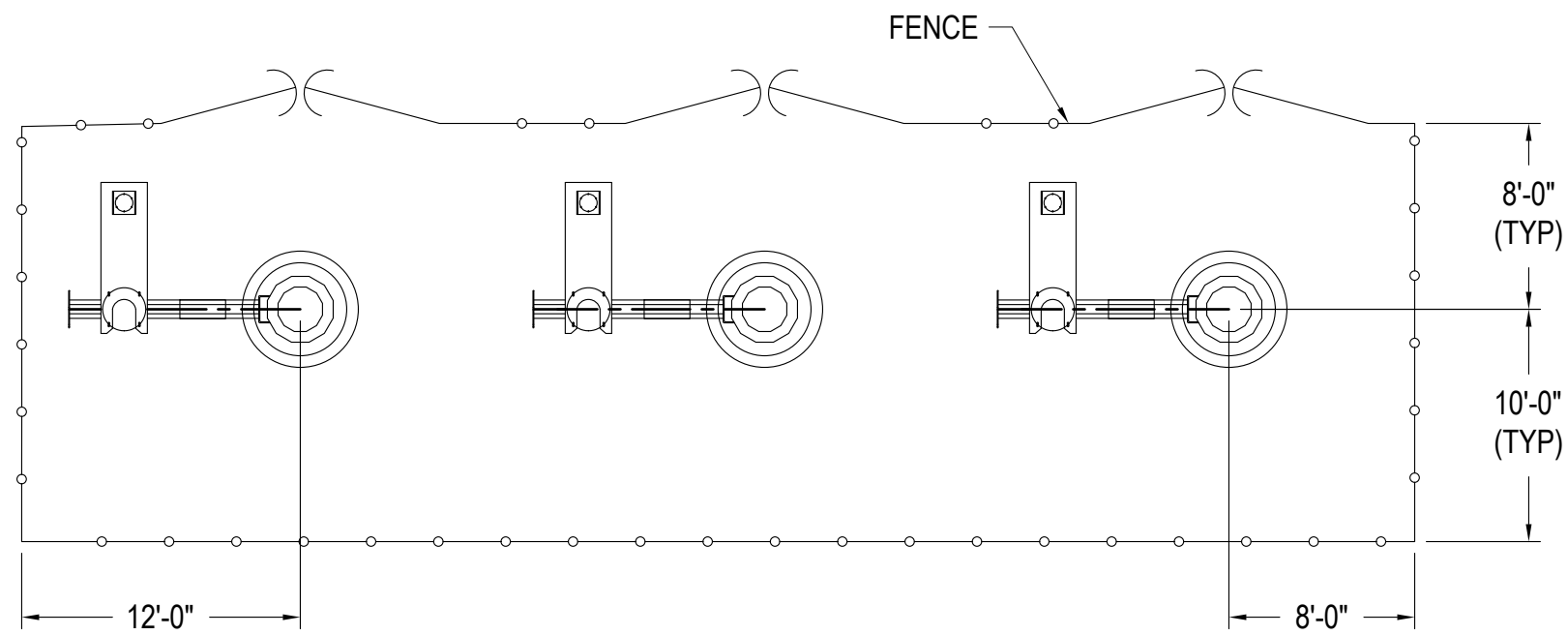
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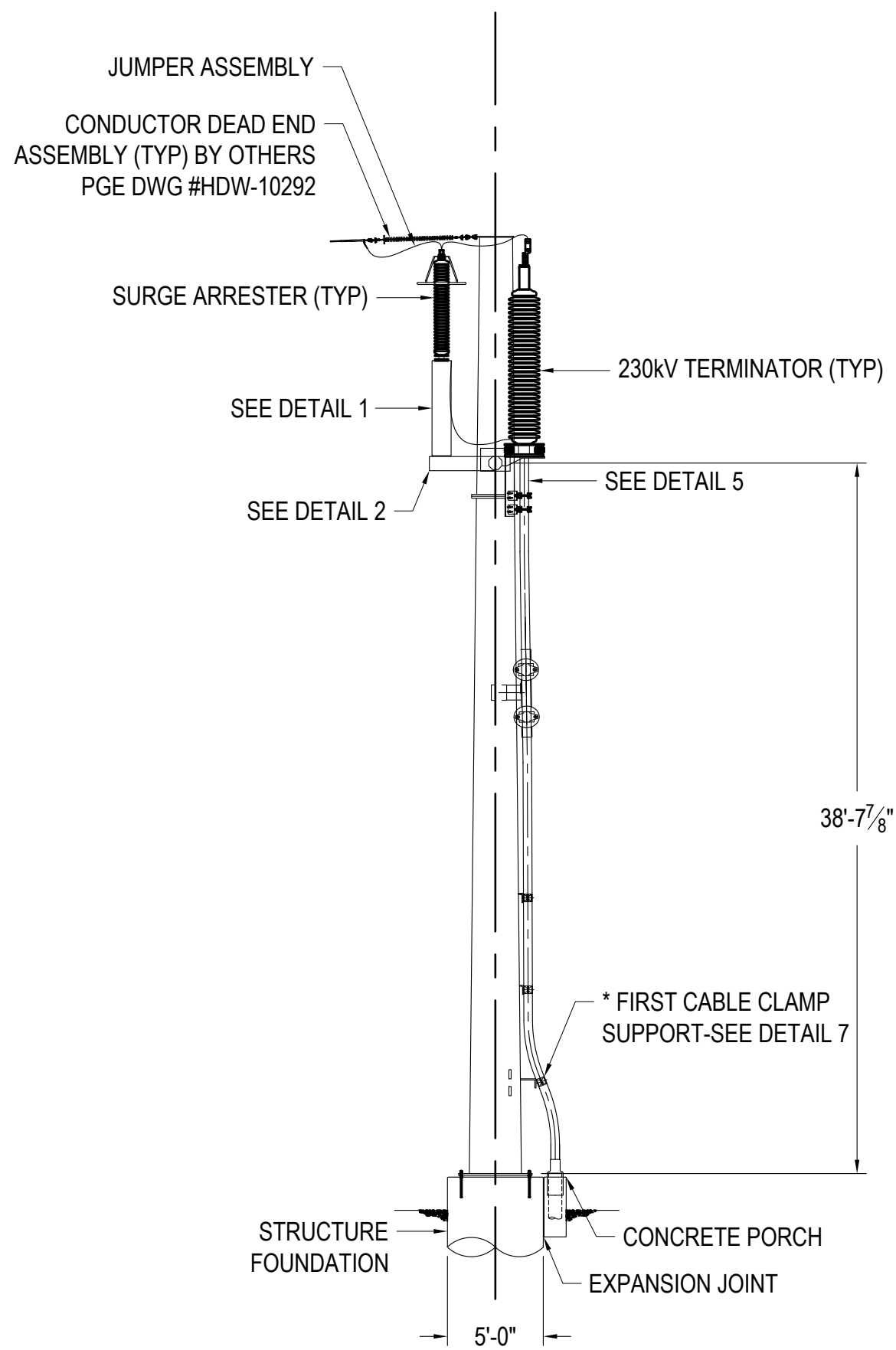
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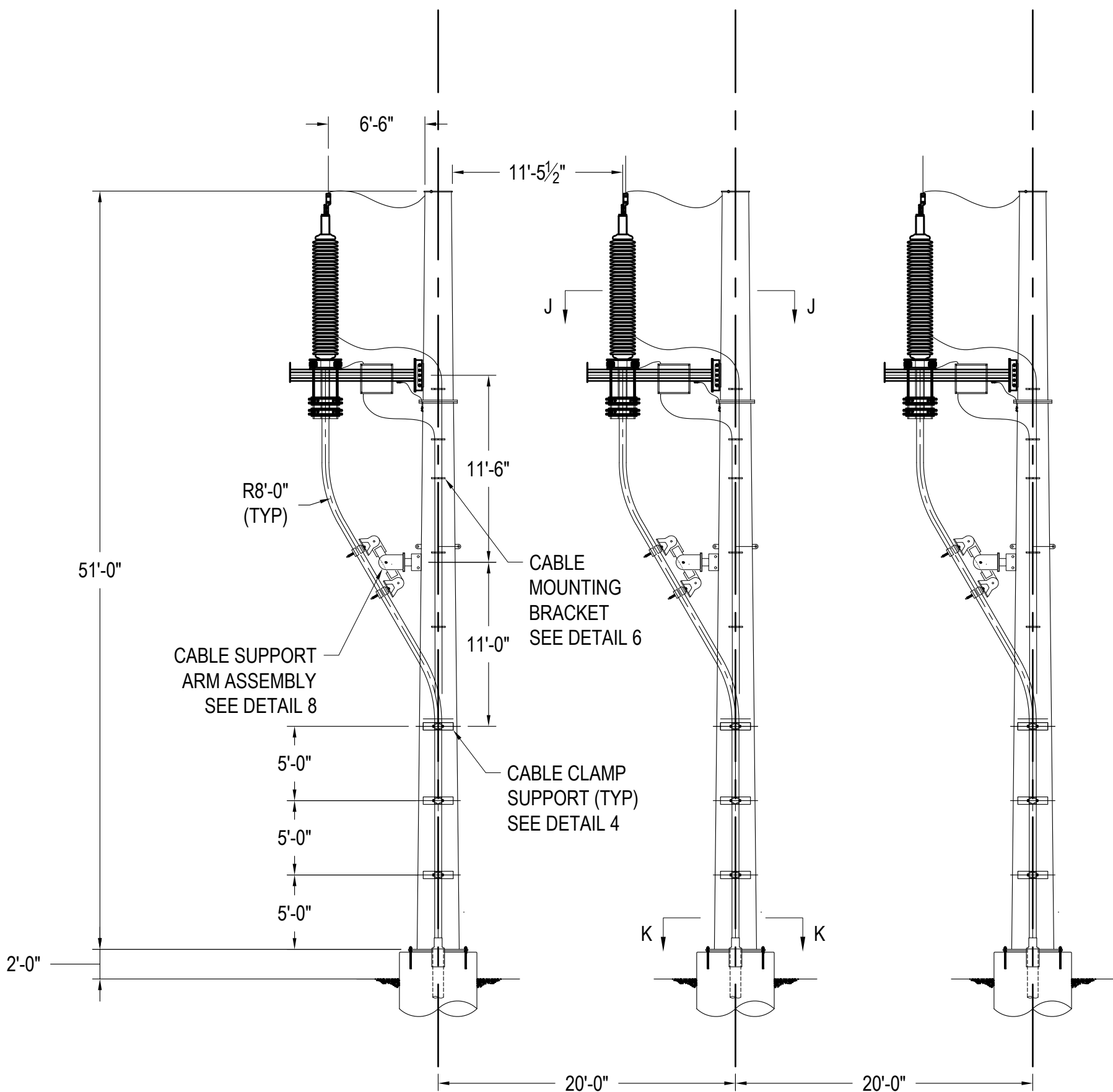
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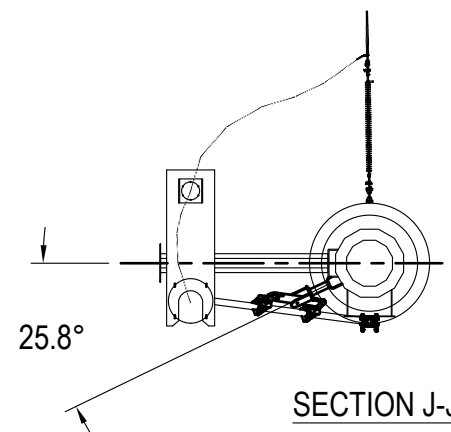
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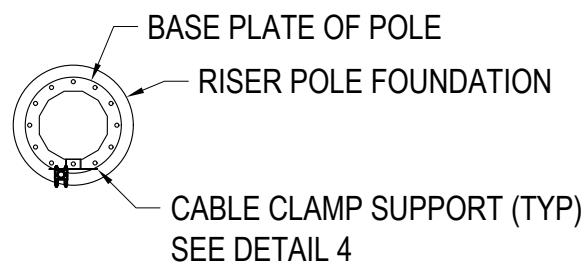
SIDE ELEVATION



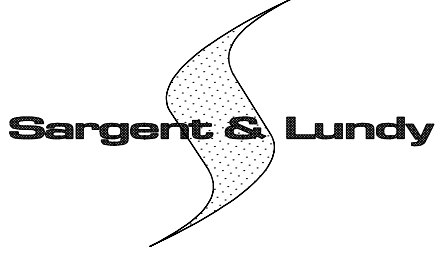
SINGLE CIRCUIT 3-POLE RISER CONFIGURATION



SECTION J-J



SECTION K-K

HOLD INFORMATION		
NO.	DESCRIPTION	
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RELEASE INFORMATION		
REV.	DATE	DESCRIPTION
A	05/01/2026	ISSUED FOR 60% COMMENT
B	06/05/2026	ISSUED FOR 60% FINAL
ISSUE PURPOSE: ISSUED FOR 60% FINAL		
SPECIFICATION: N/A		
PROJECT NO.: A15867.001		
CAD FILE NAME: ND-10005.dwg		
PREPARED BY: G SCHMIDT		
REVIEWED BY: ED EVANS		
APPROVED BY:		
ANY MODIFICATION OR ADDITION TO THIS DRAWING BY AN ORGANIZATION OTHER THAN SARGENT & LUNDY, IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.		
 77 W. WACKER DRIVE CHICAGO, ILLINOIS 60601		
PRELIMINARY NOT FOR CONSTRUCTION		
PROJECT		
COPENHAGEN INFRASTRUCTURE PARTNERS SHERWOOD-MEADOWLARK 230KV TRANSMISSION LINE SHERWOOD, OR		
DRAWING TITLE		
PROPOSED 230KV RISER STRUCTURE		
SCALE: 1/8' = 1'-0"		
DRAWING NUMBER		REVISION
ND-10005		B
SHEET	1 OF 2	