

# SEDRO WOOLLEY

# 115kV/230kV SUBSTATION

24972 Minkler Rd  
Sedro Woolley, WA 98284

## DRAWING INDEX

### AS-BUILT GENERAL

SK-0566	SH 1	REV 0	SEDRO WOOLLEY SUBSTATION COVER SHEET
000076-3922	SH 1	REV 1	STATION ONE LINE DIAGRAM

### AS-BUILT CIVIL

D-15169	1	0	SITE LAYOUT
D-13243	1	3	FOUNDATION PLAN 230KV SWITCHYARD
D-13244	1	2	STRUCTURE PLAN 230KV SWITCHYARD
D-14206R	1	RMVL	FOUNDATION REMOVAL PLAN 115KV SWITCHYARD
D-14206	1	5	FOUNDATION PLAN 115KV SWITCHYARD
D-14207	1	2	STRUCTURE PLAN 115KV SWITCHYARD
D-15284	1	2	DRAINAGE PLAN 230KV SWITCHYARD
D-15284	2	0	DRAINAGE PLAN 115KV SWITCH YARD
D-15284	3	0	DRAINAGE PLAN 115KV SWITCH YARD
D-15284	4	0	DRAINAGE SECTION AND DETAILS 115KV SWITCHYARD

### AS-BUILT FOUNDATIONS

D-2186	1	14	115KV SWITCH STAND FOUNDATION
D-2618	1	10	SINGLE PEDESTAL FDN 4FTx4FTx1FT-6IN
D-2699	1	10	115KV BUS SUPPORT FDN FOR SUPPORTS TO 12FT HIGH
D-5280	1	6	ANCHOR BOLT ASSEMBLY 35FR DEAD END STRUCTURE 3000# TENSION/CONDUCTOR
D-7759	1	3	230KV 3FT DIAMETER DRILLED PIER FOUNDATION
D-7423	1	3	35FT DEAD END STRUCTURE FDN 3000# TENSION/CONDUCTOR 16FTx14FT
D-8033	1	12	115KV S&C SERIES 2000 CIRCUIT SWITCHER FDN WITH CONDUIT LOCATIONS FOR OPTIONAL MODELS 2020 (DISC) & 2030 (NON-DISC)
D-9210	1	3	230KV BUS SUPPORT 12FT PHASE SPACING HEIGHTS 8FT TO 16FT
D-13320	1	0	PCB FOUNDATION FOR 230KV MITSUBISHI GAS BREAKER
D-13716	1	0	CAPACITOR BANK FDN FOR COOPER 115KV 42MVAR
D-13717	1	0	SINGLE PEDESTAL FDN 5FTx5FTx1FT-6IN WITH 1FT-6IN SQ ANCHOR BOLT PATTERN
D-14979	1	1	115KV GAS POWER CIRCUIT BREAKER FDN 7FT-6INx9FT-6INx1FT-10IN FOR MITSUBISHI 2000A/3000A 40KA (REF ONLY)
D-15286	1	0	230/115KV TRANSFORMER DE FOUNDATION W/AUGER PILES
D-15286	2	0	230/115KV TRANSFORMER DE STRUCTURE FOUNDATION SPECIFICATIONS AND NOTES
D-15888	1	0	230KV DE STRUCTURE FOUNDATION W/AUGER PILES
D-15888	2	0	230KV DE STRUCTURE FOUNDATION SPECIFICATIONS AND NOTES
D-17074	1	0	115KV CAPACITOR VOLTAGE TRANSFORMER STAND FDN 9FT PHASE SPACING (REF ONLY)

### AS-BUILT STRUCTURAL

D-2741	1	9	230KV BUS SUPPORT 12FT PHASE SPACING HEIGHT 16FT-6IN TO 23FT (REF ONLY)
D-3414	1	5	115KV BUS SUPPORT 9FT PHASE SPACING 16FT MAXIMUM HEIGHT (REF ONLY)
D-4901	1	3	INSULATOR SUPPORT BEAM AT 9FT-4IN 35FT DEAD END STR 3000# TENSION/CONDUCTOR (REF ONLY)
D-5369	1	2	230KF SWITCH STAND - 12FT PHASE PHASE SPACING HEIGHT 16FT-6IN TO 23FT (REF ONLY)
D-5369	2	3	230KF SWITCH STAND - 12FT PHASE PHASE SPACING HEIGHT 16FT-6IN TO 23FT (REF ONLY)
D-6753	1	4	115KV SWITCH STAND WITH GROUND BLADE 14FT HT & 9FT PHASE SPACING (MID 9997554) (REF ONLY)
D-6753	2	0	115KV SWITCH STAND WITH GROUND BLADE 14FT HT & 9FT PHASE SPACING (MID 9997554) (REF ONLY)
D-6753	3	0	INTERLOCK ASSEMBLY FOR CAPACITOR ROTARY SWITCH HANDLE (REF ONLY)
D-7365	1	11	115KV CAPACITOR VOLTAGE TRANSFORMER STAND FOR TRENCH ELECTRIC TYPE TEV (REF ONLY)
D-8977	1	1	115KV CURRENT LIMITING REACTOR STAND AIR CORE TRENCH ELECTRIC (REF ONLY)
D-12093	1	4	35FT DEAD END STR 3000# TENSION/CONDUCTOR WITH VERTICAL SWITCH CCVT & INSULATOR SUPPORT AT 9FT-4IN ERECTION DIAGRAM (REF ONLY)
D-12093	2	5	35FT DEAD END STR 3000# TENSION/CONDUCTOR WITH VERTICAL SWITCH CCVT & INSULATOR SUPPORT AT 9FT-4IN COLUMN DETAILS (REF ONLY)
D-12093	3	3	35FT DEAD END STR 3000# TENSION/CONDUCTOR WITH VERTICAL SWITCH CCVT & UNDERHUNG INSULATOR AT 9FT-4IN TOP BEAM DETAILS (REF ONLY)
D-17075	1	1	115KV CAPACITOR VOLTAGE TRANSFORMER STAND 9FT PHASE SPACING (REF ONLY)
D-17508	1	0	230KV 55' DE STRUCTURE "NORTH" (REF ONLY)
D-17509	1	0	230KV 55' DE STRUCTURE "SOUTH" (REF ONLY)
D-15285	1	0	230/115KV TRANSFORMER DE STRUCTURE (REF ONLY)
D-17600	1	0	115KV DEAD END STRUCTURE TOP BEAM BAY D (REF ONLY)

### AS-BUILT ELECTRICAL

#### ASSEMBLY PLANS:

D-14162	1	5	STATION ELECTRICAL ASSEMBLY 115KV YARD PLAN VIEW (REF ONLY)
D-14162	3	2	STATION ELECTRICAL ASSEMBLY 115KV YARD ELEVATIONS (REF ONLY)
D-14162	7	2	STATION ELECTRICAL ASSEMBLY 115KV YARD ELEVATIONS (REF ONLY)
D-8173	1	6	230KV YARD PLAN VIEW - STATION ELECTRICAL ASSEMBLY
D-8173	3	5	230KV SWITCHYARD ELEVATIONS - STATION ELECTRICAL ASSEMBLY
D-8173	4	3	230KV SWITCHYARD ELEVATIONS - STATION ELECTRICAL ASSEMBLY
D-8173	6	0	230KV SWITCHYARD ELEVATIONS - STATION ELECTRICAL ASSEMBLY

#### AC STATION SERVICE ONELINE:

D-17565	1	0	AC STATION SERVICE ONE LINE SEDRO WOLLEY (REF ONLY)
D-17565	2	0	AC STATION SERVICE ONE LINE 115KV WEST YARD LOAD CENTER (REF ONLY)
D-17565	3	0	AC STATION SERVICE ONE LINE 115KV MID YARD LOAD CENTER (REF ONLY)
D-17565	4	0	AC STATION SERVICE ONE LINE 115KV EAST YARD LOAD CENTER (REF ONLY)
D-17565	5	0	AC STATION SERVICE ONE LINE 230KV WEST YARD LOAD CENTER (REF ONLY)
D-17565	6	0	AC STATION SERVICE ONE LINE 230KV EAST YARD LOAD CENTER

### AS-BUILT ELECTRICAL

#### CONDUIT PLANS:

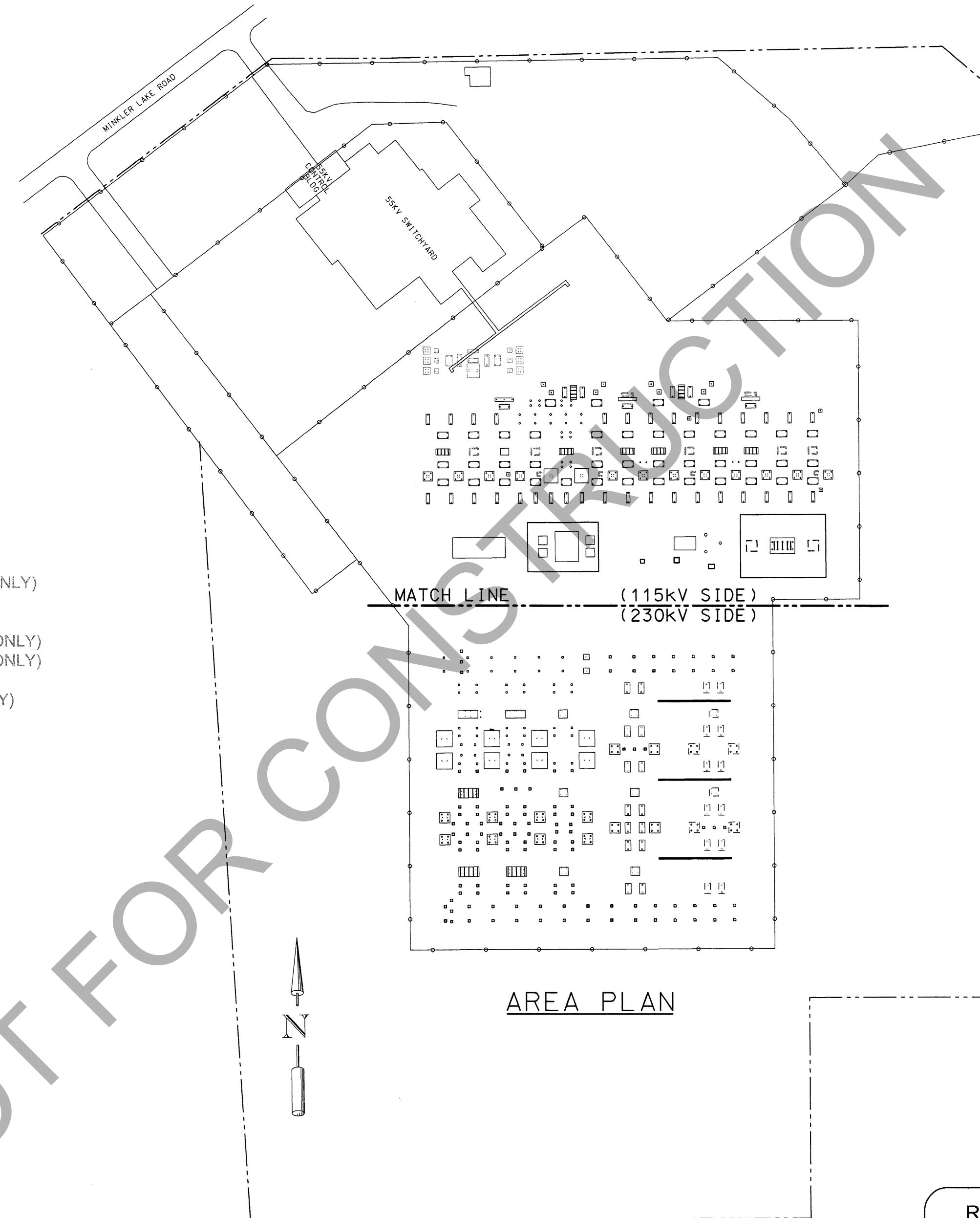
D-14165	1	5	STATION CONDUIT 115KV YARD PLAN VIEW
D-14165	2	2	CONDUIT CABLE SCHEDULE MATERIAL & DETAILS
D-14165	4	6	STATION CONDUIT 230KV YARD PLAN VIEW
D-14165	5	1	STATION ELECTRICAL ASSEMBLY CONDUIT DETAILS

#### CABLE TRENCH PLANS:

D-14166	1	2	115KV YARD DETAILS - CABLE TRENCH DETAILS
D-14166	2	1	CABLE TRENCH SYSTEM 230KV YARD TRENCH LAYOUT
D-14166	3	1	CABLE TRENCH SYSTEM 230KV YARD TRENCH COVER LAYOUT
D-14166	4	0	CABLE TRENCH SYSTEM 230KV YARD TRENCH DETAILS

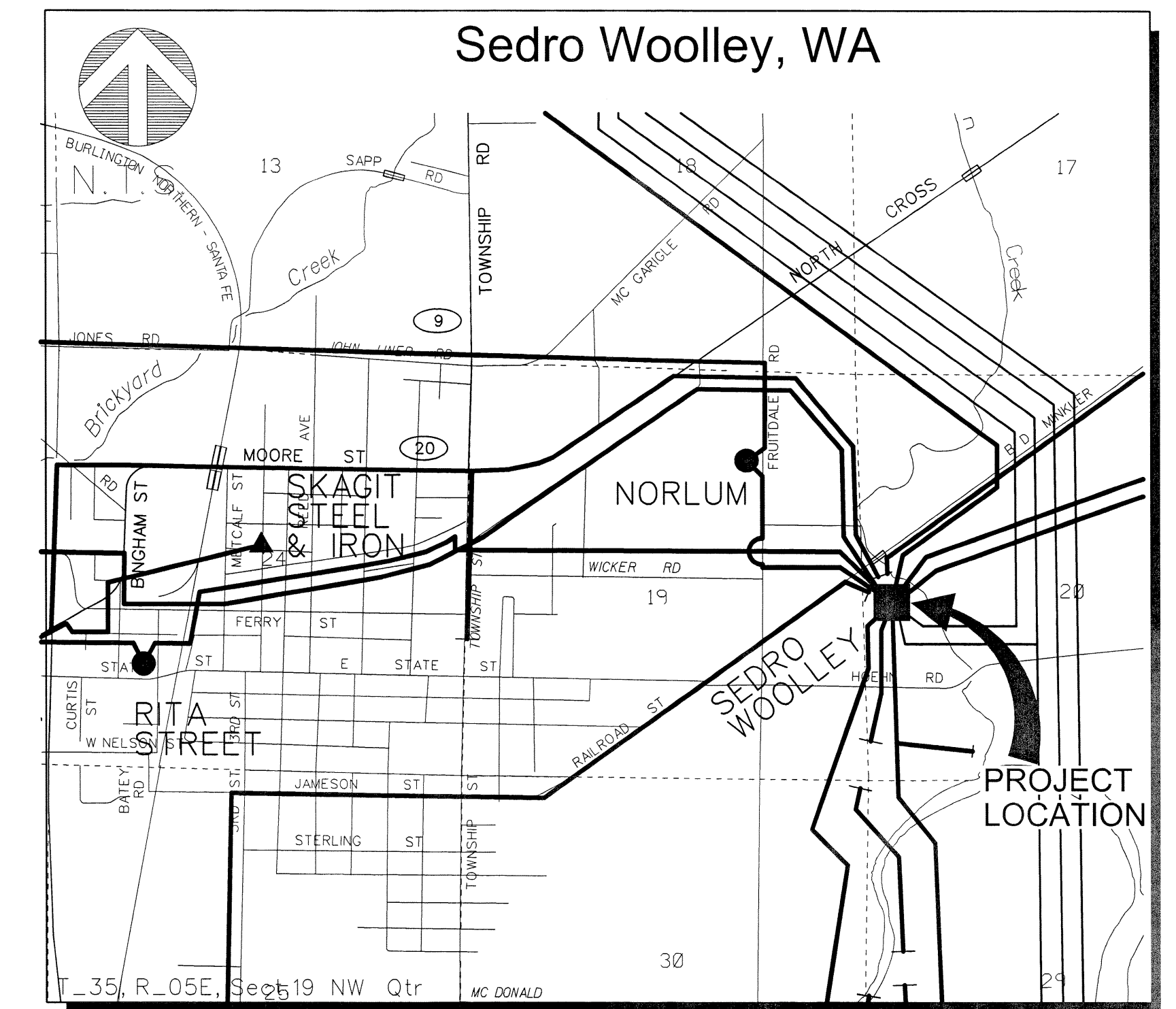
#### GROUNDING PLANS:

D-14164	1	5	STATION GROUNDING 115KV YARD PLAN VIEW
D-14164	2	3	STATION GROUNDING DETAILS
D-7705	1	11	230KV YARD - GROUND BUS PLAN
D-7705	2	7	GROUND NETWORK DETAILS 230KV YARD



### ELECTRICAL ELEVATION KEY

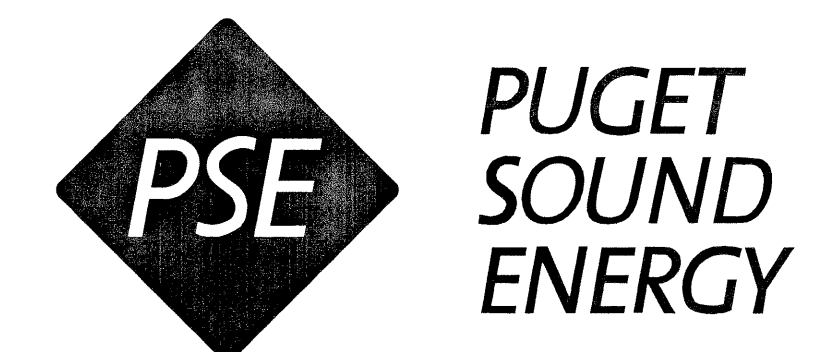
ELEVATION ID	A
SHEET NUMBER	8



VICINITY MAP  
NO SCALE

**CALL BEFORE YOU DIG**  
Call: TOLL FREE  
1-800-424-5555

RETURN THE "FOREMAN'S COPY" DRAWINGS TO THE PROJECT ENGINEER WITH AS-BUILT INFORMATION AT COMPLETION OF CONSTRUCTION. PLEASE NOTE ON COVER SHEET CHANGE OR NO CHANGE (C OR NC) PER SHEET.



PSE ENGINEERING CONTACTS		
355 NE 110TH AVE NE, BELLEVUE WA, 98009-0868		
GROUP	NAME	PHONE
PROJECT MANAGEMENT	BOB PARKER	425.462.3937
PROJECT ENGINEER/ELECTRICAL	KASSIDY WARREN	206.375.1417
CIVIL	ROB STEWART	425.456.2714
CONSTRUCTION MANAGEMENT	TOM KERFONTA	425.456.2586
CONTROLS	JUSTIN GEDNEY	425.462.3403
TRANSMISSION ENGINEER	TOM FOURNIER	425.456.2639

**SK-0566**  
**REV: 0**

CURRENT REVISION DESCRIPTION:  
BELOW GRADE BID PACKAGE

WD NO: 111016865  
DATE: 12/06/11