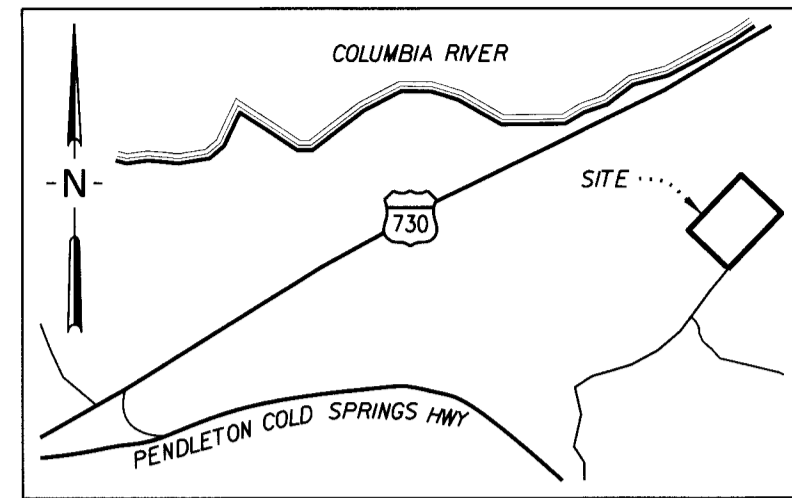


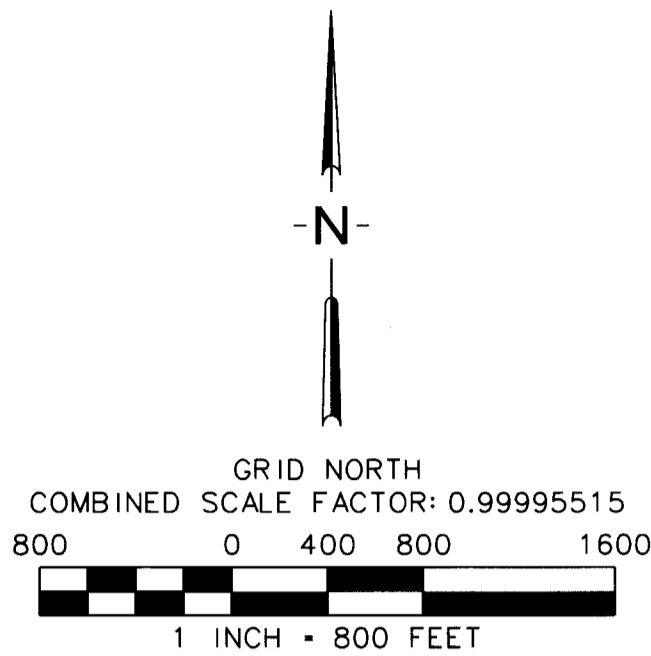
HAT ROCK SUBSTATION RECORD OF SURVEY FOR BONNEVILLE POWER ADMINISTRATION

IN GOVERNMENT LOT 1 AND THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 18,
T5N, R30E, W.M.; UMATILLA COUNTY, OREGON.
NOVEMBER, 2020



VICINITY MAP - NOT TO SCALE
UMATILLA COUNTY, OREGON

RECEIVED BY
Umatilla County Surveyor
Date: **MAR 9 2021**
Rec'd By: **TMA**
No.: **21-023-B**



BASIS OF BEARINGS

BEARINGS AND COORDINATES SHOWN ARE GRID, BASED ON THE OREGON STATE PLANE COORDINATE SYSTEM, NORTH ZONE (3601), NAD83(2011)(EPOCH:2010.0000), INTERNATIONAL FOOT. DISTANCES SHOWN HEREON ARE GROUND DISTANCES, TO CONVERT DISTANCES SHOWN TO GRID, MULTIPLY BY 0.99995515.

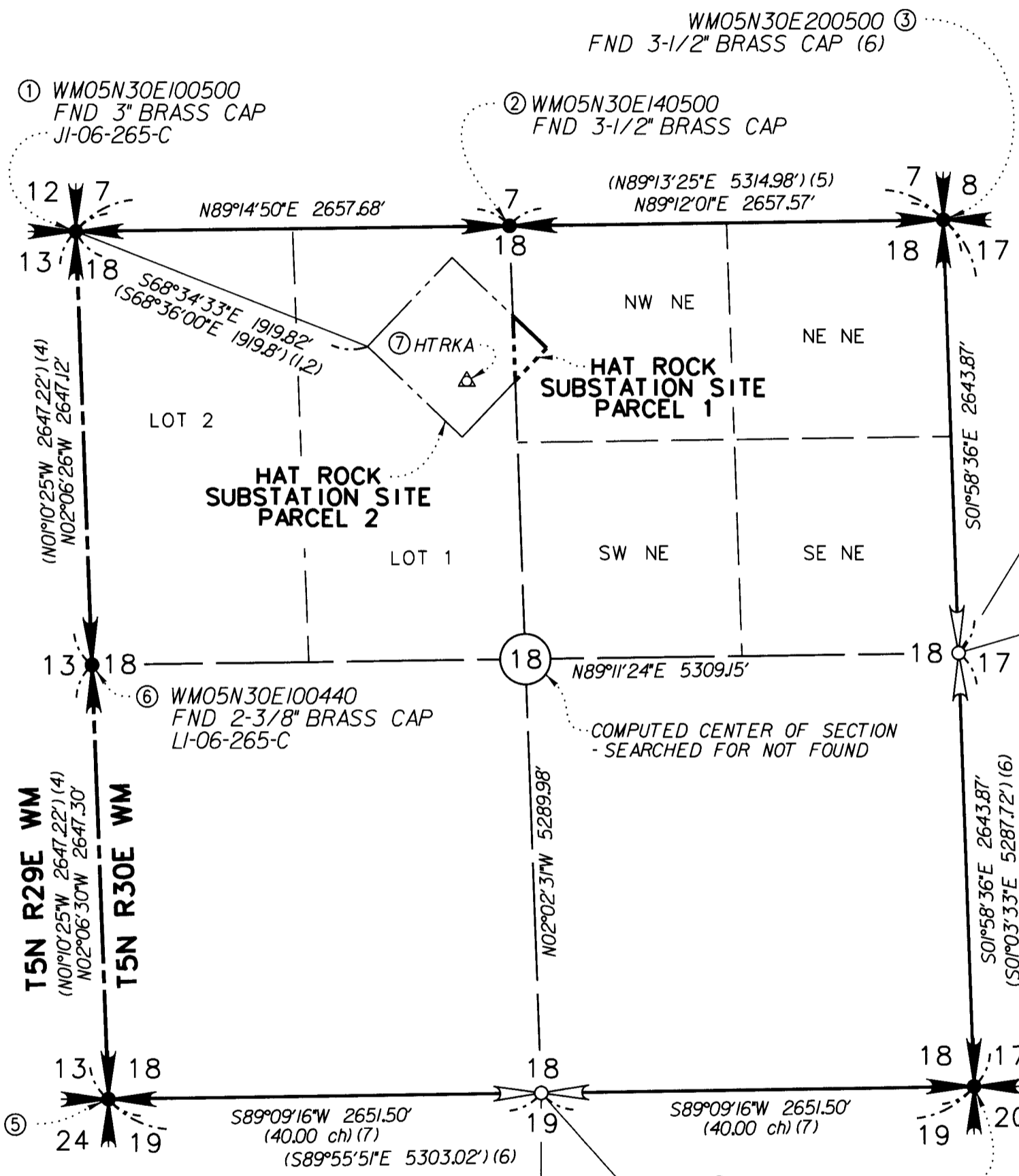
REFERENCES

- (1) TAKING - CIVIL NUMBER 70-211 MARCH 27, 1970
- (2) DEPT. OF ARMY PERMIT NO. DACW68-4-70-S3
- (3) B.P.A. HAT ROCK SUBSTATION SITE DRAWING SERIAL NUMBER 143770 DTM-D DATED MAY 28, 1969
- (4) 06-265-C
- (5) 18-053-B
- (6) S-132-C
- (7) B.L.M. PLAT OF T.5N. R.30E. W.M. APPROVED DECEMBER 7, 1861

LEGEND

- B.P.A. SUBSTATION FEE OWNED BOUNDARY
- - - B.P.A. SUBSTATION PERMIT BOUNDARY
- PLSS SECTION LINE
- - - PLSS QUARTER SECTION LINE
- - - PLSS SIXTEENTH LINE
- - - PLSS RANGE LINE
- B.P.A. BONNEVILLE POWER ADMINISTRATION
- R.P.C. RED PLASTIC CAP
- () INDICATES RECORD INFORMATION
- △ FOUND MONUMENT AS DESCRIBED VISITED AUGUST, 2020
- ✦ FOUND PLSS CORNER MONUMENT VISITED AUGUST, 2020
- SET PLSS CORNER MONUMENT OCTOBER 7, 2020

FOUND MONUMENT TABLE			
POINT	GRID NORTH	GRID EAST	DESCRIPTION
①	825316.15	8553140.30	3" BRASS CAP "T5N R29E R30E S12 S7 S8 S13"
②	825351.07	8555797.63	3-1/2" BRASS CAP "CORPS OF ENGINEERS CO-E-CC-210 1974"
③	825388.16	8558454.83	3-1/2" BRASS CAP "CORPS OF ENGINEERS CC-2102-CC-A 1974"
④	820103.81	8558637.20	2-3/8" BRASS CAP "T5N R30E S17 S18 S19 S20 RLS 933"
⑤	820025.55	8553335.01	3" BRASS CAP "T5N R29E R30E S13 S8 S24 S19"
⑥	822670.95	8553237.63	2-3/8" BRASS CAP "T5N R29E R30E 1/4 S13 S18 2005 LS951"
⑦	824401.86	8555535.56	3-1/4" BPA ALUM CAP STAMPED "HTRKA MSI 2012"
SET MONUMENT TABLE			
①	822745.99	8558546.02	2" ALUM CAP "T5N R30E S17 S18 2020 74286LS"
②	820064.68	8555986.11	2" ALUM CAP "T5N R30E S18 S19 2020 74286LS"



PROCEDURES

THIS SURVEY WAS PERFORMED BY FIELD TRAVERSE METHODS USING A 3 SECOND TRIMBLE S6 ROBOTIC TOTAL STATION TOGETHER WITH TRIMBLE R10 DUAL FREQUENCY RECEIVERS, AN INDEPENDENT OPUS STATIC PRIMARY CONTROL POINT WAS ESTABLISHED TO CONTROL THIS SURVEY. SECONDARY CONTROL WAS ESTABLISHED USING RTK GPS METHODS. SURVEY DATA WAS ADJUSTED TO MEET THE CHI-SQUARE TEST AT A 95% CONFIDENCE INTERVAL AND ALL ADJUSTMENTS WERE PERFORMED WITH TRIMBLE BUSINESS CENTER LEAST SQUARES ADJUSTMENT PROGRAM. THE COMBINED SCALE FACTOR OF 0.99995515 FROM NGS OPUS SOLUTION REPORT WAS UTILIZED FOR THIS PROJECT.

SURVEYOR'S NARRATIVE

THE PURPOSE OF THIS SURVEY IS TO MONUMENT THE BONNEVILLE POWER ADMINISTRATION'S (B.P.A.) HAT ROCK SUBSTATION PARCEL 1 (HTRK-SS-P1), DESCRIBED IN CIVIL NO. 70-211, JUDGMENT IN CONDEMNATION AND ORDER OF DISTRIBUTION, DATED MARCH 27, 1970, UMATILLA COUNTY RECORDS AND PARCEL 2 (HTRK-SS-P2), DESCRIBED IN DEPARTMENT OF THE ARMY PERMIT TO OTHER FEDERAL GOVERNMENT DEPARTMENT OR AGENCY TO USE PROPERTY ON MCNARY LOCK AND DAM PROJECT, PERMIT NO. DACW68-4-70-53, DATED NOVEMBER 7, 1969.

THE BOUNDARY LINES WERE INTENDED TO BE PARALLEL WITH SUBSTATION BASELINES AS SHOWN ON THE HATROCK SUBSTATION SITE MAP, DRAWING SERIAL NUMBER 143770 DTM-D, DATED 5-28-69. IN JULY OF 2016, DAVID EVANS AND ASSOCIATES RE-ESTABLISHED AND RE-MONUMENTED THE SUBSTATION BASE LINES AT THE REQUEST OF B.P.A.

THE EAST AND WEST BOUNDARY LINES WERE ESTABLISHED BY OFFSETTING THE NORTH-SOUTH CONSTRUCTION BASELINE RECORD DISTANCE. THE NORTH AND SOUTH BOUNDARY LINES WERE ESTABLISHED BY HOLDING A LINE PERPENDICULAR TO THE NORTH-SOUTH BASELINE AND OFFSETTING RECORD DISTANCE FROM THE BASELINE INTERSECTION POINT.

THIS SOLUTION COMPARED FAVORABLY TO RECORD VALUES. DISTANCE TO THE NORTHWEST CORNER OF SECTION 18 MISSES RECORD BY 0.02'. THE DIVISION LINE BETWEEN THE FEE OWNED PARCEL (HTRK-SS-P1) AND THE PERMIT PARCEL (HTRK-SS-P2) IS THE NORTH-SOUTH CENTER OF SECTION LINE WHICH WAS DETERMINED BY HOLDING THE 3-1/2" BRASS CAP AT THE NORTH QUARTER CORNER OF SECTION 18 AND THE SOUTH QUARTER CORNER, WHICH WAS ESTABLISHED BY SINGLE PROPORTION FROM TIES TO THE 2-3/8" BRASS CAP AT THE SOUTHEAST CORNER AND THE 3" BRASS CAP AT THE SOUTHWEST CORNER OF SAID SECTION.

② WM05N30E140400
SET 2" ALUM CAP
SET OCTOBER 7, 2020
R.P. 1 - S74°31'42"W 20.0' TO 1/2" REBAR W/R.P.C. "MSI CONTROL"
R.P. 2 - S05°40'06"E 24.6' TO 1/2" REBAR W/R.P.C. "MSI CONTROL"
R.P. 3 - S89°33'02"E 31.36' TO 1/2" REBAR W/R.P.C. "MSI CONTROL"
R.P. 4 - N14°35'49"E 21.04' TO 1/2" REBAR W/R.P.C. "MSI CONTROL"

REGISTERED
PROFESSIONAL
LAND SURVEYOR
Carla Jo Meritt
OREGON
JULY 13, 2004
CARLA JO MERITT
74286LS

RENEWS: DEC. 31, 2022
2/23/21

SECTION 18, TOWNSHIP 5 NORTH, RANGE 30 EAST, W.M.	
Mackay Sposito	1325 SE TECH CENTER DRIVE, SUITE 140 VANCOUVER, WA 98683
ENERGY PUBLIC WORKS LAND DEVELOPMENT	VANCOUVER: (360) 695-3411 PORTLAND: (503) 289-6726 FAX (360) 695-0833
www.mackaysposito.com	
CALC BY: <u>AJS</u> CHECKED BY: <u>AJS</u> DRAWN BY: <u>CWR</u>	JOB NO.: <u>17368</u>
SER NO 340802-C	FILE: <u>HAT ROCK SUBSTATION</u>
SHEET 1 OF 2	

LEGAL DESCRIPTION

HAT ROCK SUBSTATION - PARCEL 1 - DATED MARCH 27, 1970

FEE SIMPLE TITLE TO THE FOLLOWING DESCRIBED PART OF THE NW 1/4 NE 1/4 IN SECTION 18, TOWNSHIP 5 NORTH, RANGE 30 EAST, WILLAMETTE MERIDIAN, UMATILLA COUNTY, OREGON: BEGINNING AT A POINT IN SAID NW 1/4 NE 1/4 OF SECTION 18, S68°36'00"E, 1919.8 FEET FROM THE NORTHWEST CORNER OF SAID SECTION 18, TOWNSHIP 5 NORTH, RANGE 30 EAST, WILLAMETTE MERIDIAN; AND RUNNING THENCE N43°40'40"E, 750 FEET; THENCE S46°19'20"E, 800 FEET; THENCE S43°40'40"W, 750 FEET; THENCE N46°19'20"W, 800 FEET TO THE POINT OF BEGINNING. THE BEARINGS REFER TO THE OREGON COORDINATE SYSTEM - NORTH ZONE.

HAT ROCK SUBSTATION - PARCEL 2 - DATED NOVEMBER 7, 1969

THAT PORTION OF THE UNITED STATES, BONNEVILLE POWER ADMINISTRATION'S, HAT ROCK SUBSTATION SITE WHICH LIES WITHIN THE FOLLOWING DESCRIBED PROPERTY: THE NE 1/4 NW 1/4 (N 1/2 OF GOVERNMENT LOT 1 OF THE NW 1/4) OF SECTION 18, TOWNSHIP 5 NORTH, RANGE 30 EAST OF THE WILLAMETTE MERIDIAN, UMATILLA COUNTY, OREGON. THE BOUNDARIES OF SAID SUBSTATION SITE BEING DESCRIBED AS FOLLOWS: BEGINNING AT A POINT WHICH IS S68°36'00"E, 1,919.8 FEET FROM THE NORTHWEST CORNER OF SECTION 18, TOWNSHIP 5 NORTH, RANGE 30 EAST OF THE WILLAMETTE MERIDIAN; THENCE N43°40'40"E, 750 FEET; THENCE S46°19'20", 800 FEET; THENCE S43°40'40"W, 750 FEET; THENCE N46°19'20"W, 800 FEET TO THE POINT OF BEGINNING. THE TRACT OF LAND ABOVE DESCRIBED CONTAINS 12.57 ACRES, MORE OR LESS. THE BEARINGS REFER TO THE OREGON COORDINATE SYSTEM - NORTH ZONE.

**HAT ROCK SUBSTATION
RECORD OF SURVEY**

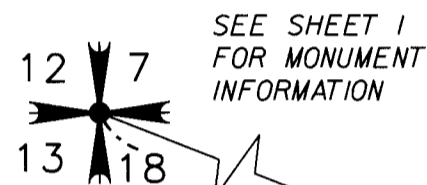
**FOR
BONNEVILLE POWER ADMINISTRATION**

IN GOVERNMENT LOT 1 AND THE NORTHWEST QUARTER OF THE
NORTHEAST QUARTER OF SECTION 18,
T5N, R30E, W.M.; UMATILLA COUNTY, OREGON.

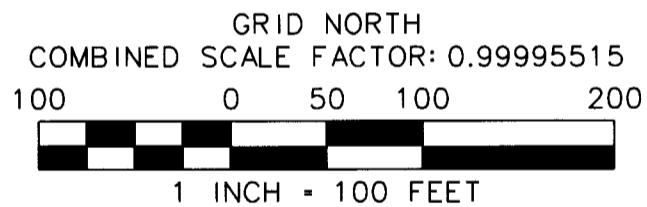
NOVEMBER, 2020

**HAT ROCK SUBSTATION SITE
PARCEL 2 (PERMIT)
HTRK-SS-P2
PERMIT NO. DACW68-4-70-S3
DATED NOVEMBER 7, 1969 (2)**

**HAT ROCK SUBSTATION SITE
PARCEL 1 (FEE)
HTRK-SS-P1
CIVIL NO. 70-211
DATED MARCH 27, 1970 (1)**

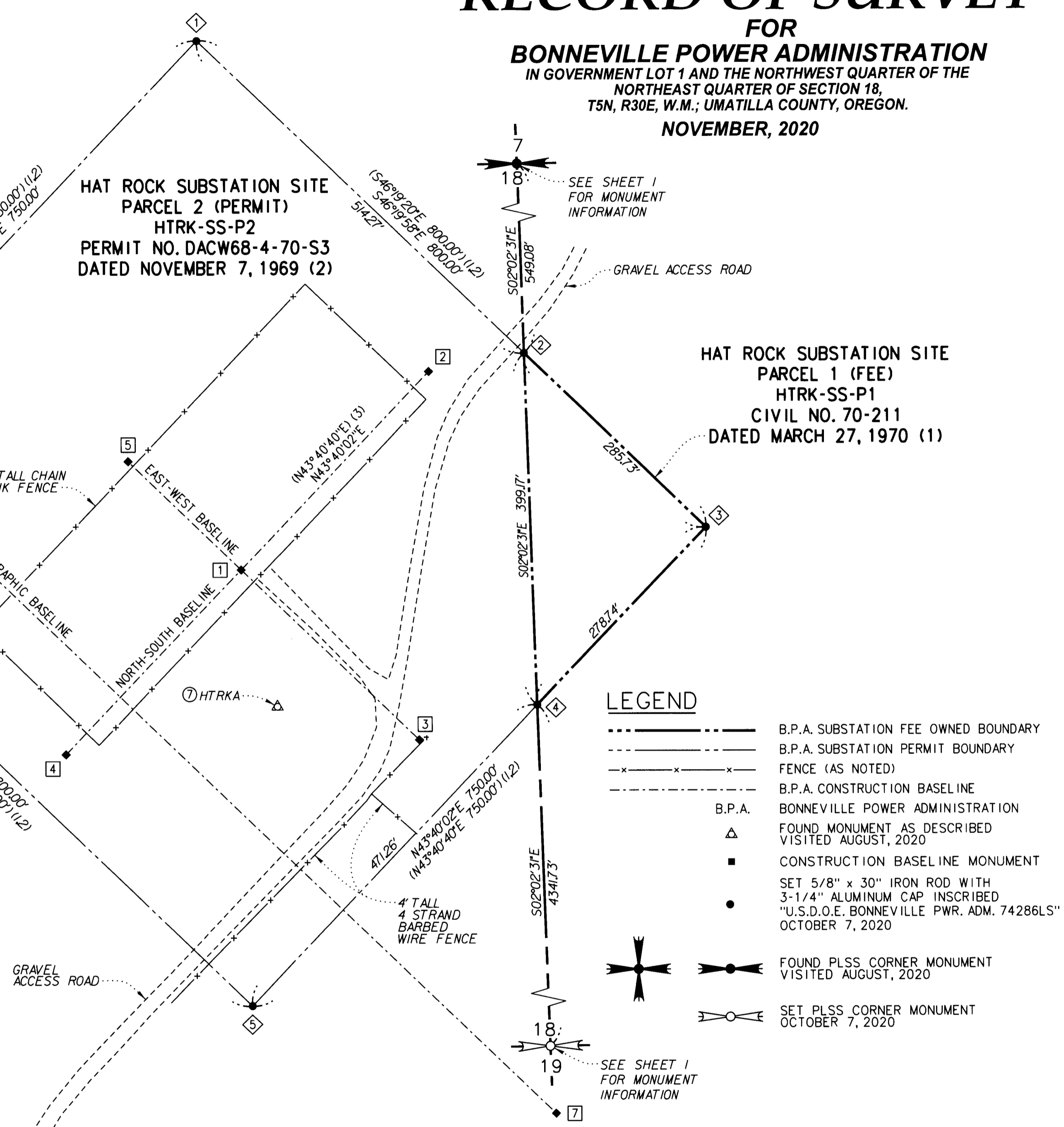


POINT OF BEGINNING
HAT ROCK SUBSTATION SITE
PARCEL 1 AND PARCEL 2



SET MONUMENT TABLE				
POINT	STATION ID	GRID NORTH	GRID EAST	DESCRIPTION
①	HTRK-PC01	825157.43	8555445.21	3-1/4" B.P.A. ALUMINUM CAP "HTRK-PC01 74286LS MS1 20"
②	HTRK-PC02	824802.36	8555817.20	3-1/4" B.P.A. ALUMINUM CAP "HTRK-PC02 74286LS MS1 20"
③	HTRK-PC03	824605.08	8556023.87	3-1/4" B.P.A. ALUMINUM CAP "HTRK-PC03 74286LS MS1 20"
④	HTRK-PC04	824403.46	8555831.42	3-1/4" B.P.A. ALUMINUM CAP "HTRK-PC04 74286LS MS1 20"
⑤	HTRK-PC05	824062.58	8555506.05	3-1/4" B.P.A. ALUMINUM CAP "HTRK-PC05 74286LS MS1 20"
⑥	HTRK-PC06	824614.93	8554927.38	3-1/4" B.P.A. ALUMINUM CAP "HTRK-PC06 74286LS MS1 20"

CONSTRUCTION BASELINE MONUMENT TABLE - COORDINATES AND DESCRIPTIONS PROVIDED BY B.P.A.				
POINT	STATION ID	GRID NORTH	GRID EAST	DESCRIPTION
①	HTRK-INTX	824557.40	8555494.53	3-1/4" B.P.A. ALUMINUM CAP "HTRK INT-X DEA16"
②	HTRK-N310	824781.62	8555708.56	FOUND 3-1/4" B.P.A. ALUMINUM CAP "HTRK N310 DEA16"
③	HTRK-E280	824364.09	8555697.06	FOUND 3-1/4" B.P.A. ALUMINUM CAP "HTRK E280 DEA16"
④	HTRK-S290	824347.65	8555294.32	FOUND 3-1/4" B.P.A. ALUMINUM CAP "HTRK S290 DEA16"
⑤	HTRK-W178	824680.29	8555365.78	3-1/4" B.P.A. ALUMINUM CAP "HTRK W178 DEA16"
⑥	HTRK-S199.96W374.89	824671.60	8555085.33	3-1/4" B.P.A. ALUMINUM CAP "HAT ROCK N 10000.00 E 19475.30"
⑦	HTRK-S199.96E684.64	823940.10	8555851.68	3-1/4" B.P.A. ALUMINUM CAP "N 10000.00 E 20534.68"



LEGEND

- B.P.A. SUBSTATION FEE OWNED BOUNDARY
- - - B.P.A. SUBSTATION PERMIT BOUNDARY
- x-x-x-x- FENCE (AS NOTED)
- - - B.P.A. CONSTRUCTION BASELINE
- B.P.A.
- ▲ FOUND MONUMENT AS DESCRIBED VISITED AUGUST, 2020
- CONSTRUCTION BASELINE MONUMENT
- SET 5/8" x 30" IRON ROD WITH 3-1/4" ALUMINUM CAP INSCRIBED "U.S.D.O.E. BONNEVILLE PWR. ADM. 74286LS" OCTOBER 7, 2020
- ⊕ FOUND PLSS CORNER MONUMENT VISITED AUGUST, 2020
- ⊙ SET PLSS CORNER MONUMENT OCTOBER 7, 2020

RECEIVED BY
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CALC BY: AJS CHECKED BY: AJS DRAWN BY: CWR JOB NO.: 17368

SER NO 340802-C FILE: HAT ROCK SUBSTATION SHEET 2 OF 2