

RECORD OF SURVEY

FOR THE BONNEVILLE POWER ADMINISTRATION
 BONNEVILLE-COULEE LINE RIGHT-OF-WAY MILES 23 TO 27
 HANFORD-OSTRANDER NO.1 RIGHT-OF-WAY MILES 125 TO 126

PURPOSE OF SURVEY

THE PURPOSE OF THIS SURVEY IS TO RETRACE AND DELINEATE THE LOCATION OF CERTAIN BONNEVILLE POWER ADMINISTRATION (BPA) EASEMENT AND FEE OWNED RIGHTS ALONG OPERATING MILES 24 THROUGH 28 OF THE NORTH BONNEVILLE-MIDWAY NO. 1 TRANSMISSION LINE RIGHT-OF-WAY CORRIDOR, LOCATED IN SKAMANIA AND KLICKITAT COUNTIES, WASHINGTON. THIS SURVEY IS BEING PREPARED AT THE REQUEST OF BPA, AND THE RETRACEMENT FIELD WORK WAS COMPLETED DURING THE MONTHS OF MARCH THROUGH APRIL OF 2019.

THE TWO SURVEY LINES RETRACED ARE:

- 1) BONNEVILLE-COULEE LINE 1177+01.4 IN DESIGN MILE 23 TO 64+95.9 IN DESIGN MILE 27.
- 2) HANFORD-OSTRANDER NO. 1 1253+25 IN DESIGN MILE 125 TO 1293+87.6 IN DESIGN MILE 126.

BASIS OF BEARINGS AND COORDINATES

BEARINGS SHOWN HEREON ARE BASED UPON GRID NORTH OF THE WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (4602), NAD83(2011) EPOCH 2010.0000.

COORDINATES SHOWN HEREON ARE WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (4602), NAD83(2011) EPOCH 2010.0000.

UNITS FOR DISTANCES, STATIONS AND COORDINATES ARE US SURVEY FEET. DISTANCES SHOWN ARE GROUND. COORDINATES SHOWN ARE GRID. THE OVERALL PROJECT COMBINED GROUND TO GRID SCALE FACTOR IS 0.99996425.

PROJECT LOCATION

IN THE SOUTHEAST ONE-QUARTER (SE¹/₄) OF SECTION 8, THE SOUTH ONE-HALF (S¹/₂) OF SECTION 9, THE SOUTH ONE-HALF (S¹/₂) OF SECTION 10, THE SOUTH ONE-HALF (S¹/₂) AND NORTHEAST ONE-QUARTER (NE¹/₄) OF SECTION 11, THE NORTHWEST ONE-QUARTER (NW¹/₄) AND THE SOUTHWEST ONE-QUARTER (SW¹/₄) OF SECTION 12, ALL LOCATED IN TOWNSHIP 3 NORTH, RANGE 10 EAST, OF THE WILLIAMETTE MERIDIAN, SKAMANIA AND KLICKITAT COUNTIES, WASHINGTON

MEASUREMENT PROCEDURES AND METHODS

FIELD MEASUREMENTS WERE COLLECTED DURING THE MONTHS OF MARCH AND APRIL OF 2019, WITH A TRIMBLE R10 GNSS SYSTEM AND A 3-SECOND TRIMBLE S5 TOTAL STATION. MEASUREMENTS WERE OBSERVED TO COLLECT POSITIONS ON RECOVERED ANGLE POINT AND ON-LINE (P.O.T.) TOWER CENTER MONUMENTS, PUBLIC LAND SURVEY SYSTEM (PLSS) CADASTRAL CORNERS, ADJACENT PARCEL SURVEY MONUMENTATION AND TOWER LEGS.

TWO INDEPENDENT STATIC DATA SESSIONS COLLECTED AT PRIMARY CONTROL POINTS LIDARBAL, BC-G02401 AND BC-G02801 WERE PROCESSED THROUGH NGS OPUS PROJECTS FOR FINAL COORDINATES TIED TO THE NATIONAL SPATIAL REFERENCE SYSTEM.

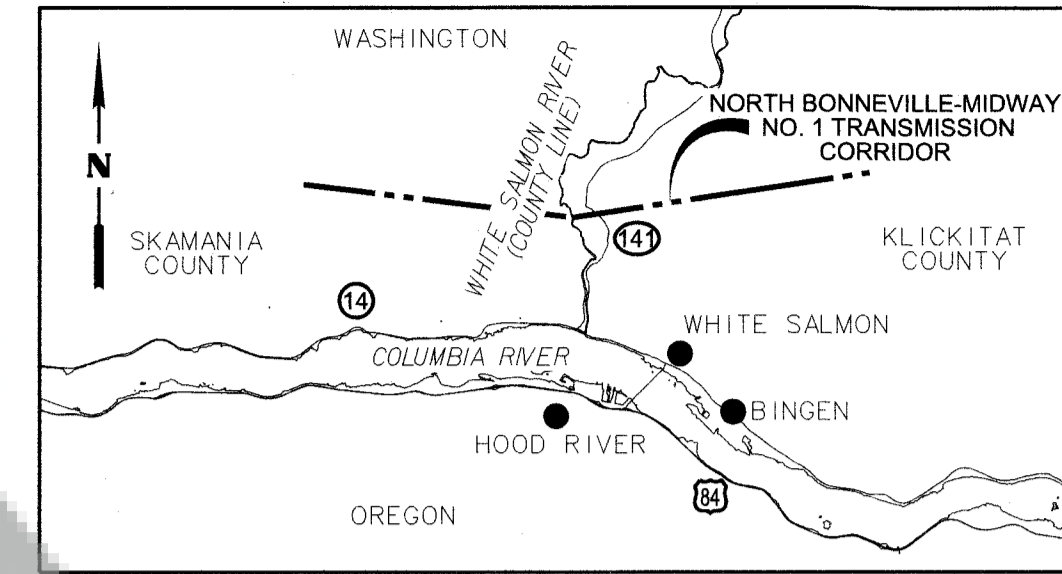
SURVEY MONUMENT AND SECONDARY CONTROL MEASUREMENTS WERE DERIVED FROM RTK DOUBLE TIES OR TWO INDEPENDENT SETS OF ANGLE AND DISTANCE REDUNDANT MEASUREMENTS LOCATED FROM RTK DOUBLE TIED SECONDARY CONTROL.

TOWER CENTERS WERE COMPUTED BY BEARING-BEARING INTERSECTION OF THE RTK FIELD TIED TOWER LEGS.

BPA PROVIDED LIDAR SCAN DATA WAS UTILIZED FOR MAPPING OF NON-CONTROLLING LINES, WHICH ARE SHOWN FOR GRAPHICAL PURPOSES ONLY.

GIS DATA WAS UTILIZED FOR THE GRAPHICAL DEPICTION OF ADJACENT PARCEL LINEWORK.

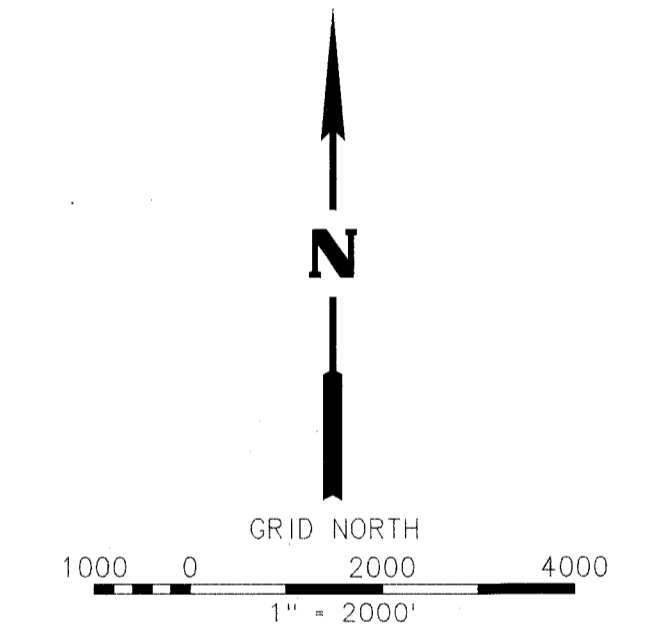
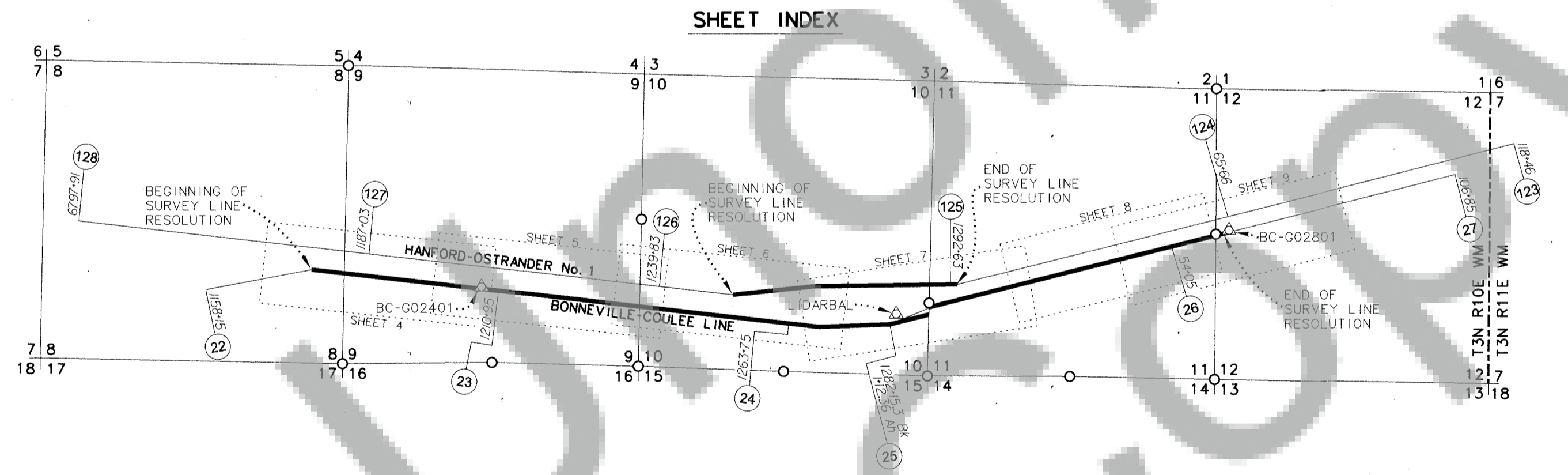
THIS SURVEY COMPLIES WITH ALL STANDARDS AND GUIDELINES OF THE SURVEY RECORDING ACT IN CHAPTER 58.09 ROW AND 332-130 WAC.



VICINITY MAP
NOT TO SCALE

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SURVEYOR NOTES

1. ALL RECORD STATIONING IS BASED ON ORIGINAL BPA PLAN MAPS. "MEAS" IS STATIONING DERIVED FROM MEASUREMENTS IN THIS SURVEY.
2. BPA MAY HAVE ADDITIONAL LAND RIGHTS NOT SHOWN ON THIS SURVEY.
3. THIS SURVEY DOES NOT ADDRESS LAND RIGHTS RELEASED SUBSEQUENT TO ORIGINAL ACQUISITION.
4. THIS SURVEY DOES NOT ADDRESS ENCROACHMENTS TO THE BPA RIGHT-OF-WAY.
5. TRANSMISSION LINE OPERATING NAMES AND TOWER NUMBERS ARE SUBJECT TO CHANGE BY BPA.

LEGEND

- △ BPA CONTROL MONUMENT
- FOUND CADASTRAL CORNER
- TOWNSHIP AND RANGE LINE
- PLSS SECTION LINES
- BPA TRANSMISSION LINE
- SURVEY LINE
- SHEET LAYOUT
- XXX + XX (X) LINE MILE MARKER STATION PER B.P.A. MILE MAPS

SURVEYORS CERTIFICATE

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE SURVEY RECORDING ACT AT THE REQUEST OF BONNEVILLE POWER ADMINISTRATION IN MARCH THROUGH MAY OF 2019.

Kurt Luebke
 KURT LUEBKE, PLS 44638 DATE 5-7-2019



AUDITOR'S CERTIFICATE

FILED FOR RECORD THIS 12th DAY OF August 2019 AT 11:38 AM. IN BOOK _____ OF _____ AT PAGE _____ AT THE REQUEST OF DJ&A, P.C. AFN 2019-001429

Dorothy Jackson
 SKAMANIA COUNTY AUDITOR - Deputy



BPA RECORD OF SURVEY
 BONNEVILLE-COULEE MILES 23-27
 HANFORD-OSTRANDER MILES 125-126

JUNE 28, 2019
 1" = 2000'
 SHEET 1 OF 9

DESIGNED: C. GREENAWALT DRAWN: K. TODD CHK'D: K. LUEBKE
 W/O: 00416290-15 PROJ NO: 6660.064 SER NO 336876-C

RECORD OF SURVEY

FOR THE BONNEVILLE POWER ADMINISTRATION
 BONNEVILLE-COULEE LINE RIGHT-OF-WAY MILES 23 TO 27
 HANFORD-OSTRANDER NO.1 RIGHT-OF-WAY MILES 125 TO 126

HISTORY OF RIGHT-OF-WAY ACQUISITION

BPA ACQUIRED FEE OWNERSHIP OF THE BONNEVILLE-COULEE LINE IN 1939 VIA TWO CONDEMNATION PROCEEDINGS. THE PORTION OF THE LINE IN SKAMANIA COUNTY WAS GIVEN THE DESIGN NAME BONNEVILLE-COULEE LINE (MILES 23 THROUGH 25). IT APPEARS AS THOUGH THE NUMBER 2 WAS ADDED TO THE END OF THE LINE NAME ON SOME PLAN MAPS AFTER ACQUISITION. THE PORTION OF LINE IN KLICKITAT COUNTY WAS GIVEN THE DESIGN NAME BONNEVILLE-COULEE LINE (MILES 26 THROUGH 27). THESE LINES ARE NOW OPERATED AS NORTH BONNEVILLE-MIDWAY NO.1 (MILES 24 THROUGH 28). BOTH SECTIONS OF LINE ARE REFERRED TO IN THE CONDEMNATION DOCUMENTS AS BONNEVILLE-COULEE CIRCUIT NO. 1.

BPA ACQUIRED EASEMENTS FOR THE MCNARY-ROSS LINE (MILES 121 THROUGH 117) BETWEEN 1953-1954. THIS LINE IS NOW OPERATED AS MCNARY-ROSS NO. 1 (MILES 121 THROUGH 117).

BPA ACQUIRED EASEMENTS FOR HANFORD-OSTRANDER NO. 1 (MILES 128 THROUGH 124) BETWEEN 1970-1977. THIS LINE IS NOW OPERATED AS KNIGHT-OSTRANDER NO. 1 (MILES 37-33).

ANALYSIS OF RECORD DOCUMENTS

THIS SURVEY RELIED UPON DOCUMENTATION PROVIDED BY BPA AND FOUND IN THE RECORDS ON FILE IN SKAMANIA AND KLICKITAT COUNTIES. THIS DOCUMENTATION CONSISTED OF DEEDS, EASEMENTS, CONDEMNATION DECREES, PLAN AND PROFILE MAPS, STEEL TOWER SITE DATA, POT-BM LISTS, CADASTRAL RETRACEMENT RECORDS, HARD-SHELL MAPS, FILED SURVEYS AND LAND CORNER RECORDS.

THE RECORD ACQUISITION DESCRIPTIONS (DEEDS AND EASEMENTS) ARE IN AGREEMENT WITH WHAT IS SHOWN ON BPA PLAN AND PROFILE MAPS.

DEED DESCRIPTIONS FOR ALL PARCELS ADJOINING THE BPA FEE OWNERSHIP WERE REVIEWED TO CONFIRM THE CHARACTER OF TITLE IN RELATION TO THE BPA TRANSMISSION LINE RIGHT-OF-WAY.

RETRACEMENT METHODOLOGY

BONNEVILLE-COULEE LINE

THE CONDEMNATION DOCUMENTS AND THE BPA PLAN AND PROFILE MAPS DO NOT INDICATE MONUMENTATION BEING SET ON THE SURVEY LINE DURING ACQUISITION. THE FIELD SURVEYED TOWER CENTER LOCATIONS WERE HELD AS THE BEST AVAILABLE EVIDENCE OF THE SURVEY LINE, AND THE RECORD CADASTRAL TIES WERE USED TO VERIFY AND CONFIRM.

MCNARY-ROSS LINE

THE EXECUTED EASEMENT DOCUMENTS AND THE BPA PLAN AND PROFILE MAPS DO NOT INDICATE MONUMENTATION BEING SET ON THE SURVEY LINE DURING ACQUISITION. THE FIELD SURVEYED TOWER CENTER LOCATIONS WERE HELD AS THE BEST AVAILABLE EVIDENCE OF THE SURVEY LINE, AND THE RECORD CADASTRAL TIES WERE USED TO VERIFY AND CONFIRM.

HANFORD-OSTRANDER LINE

THE PLAN AND PROFILE MAPS AND POT-BM LIST DEPICTED MONUMENTS SET ON THE SURVEY LINE, WITH THE ASSUMPTION BEING THEY WERE SET AT THE TIME OF ACQUISITION. SIX TOWER CENTER MONUMENTS AND TWO POT MONUMENTS WERE FOUND AND LOCATED. WITH THE EXCEPTION OF THE MONUMENT DESCRIBED ON SHEET 3 AS BEING OUT OF POSITION, ALL THE FOUND MONUMENTS AGREED WITH THE DOCUMENTED SURVEY LINE LOCATION.

SURVEY LINE RESOLUTIONS

BONNEVILLE-COULEE LINE

THE TANGENT BETWEEN STATIONS 1177+01.40 AND 1269+32.00 WAS RESOLVED BY HOLDING THE RECORD OFFSET OF 0.8' RT AT ANGLE POINT AS128 (24/3) AND BY HOLDING THE RECORD OFFSET OF 1.3' RT AT ANGLE POINT AS139 (26/2). THIS RESULTED IN A DEFLECTION ANGLE OF 17°01'28" LT AT STATION 1177+01.40, VERSUS THE RECORD DEFLECTION ANGLE OF 17°02' LT. THE MEASURED TANGENT DISTANCE IS 9228.54' VERSUS THE RECORD MAP DISTANCE OF 9230.60'.

THE TANGENT BETWEEN STATIONS 1269+32.00 AND 1282+15.30 BK 1+12.36 AH WAS RESOLVED BY HOLDING THE RECORD OFFSET DESCRIBED ABOVE AT ANGLE POINT AS139 (26/2) AND THE EXTENSION OF A BEST FIT LINE THROUGH SURVEYED TOWER CENTERS OF TOWERS HB137 (27/1) THROUGH HB142 (28/2). THIS LINE WAS THEN OFFSET 125' SOUTH AND TRIMMED AT A LINE CONNECTING THE TOWER LEGS AT ANGLE POINT AS140 (26/3). THIS METHOD OF RESOLUTION WAS CHOSEN IN ORDER TO MAINTAIN CONTINUITY OF THE 300' FEE CORRIDOR. OTHER RESOLUTION METHODS WERE ANALYZED, BUT THEY ALL RESULTED IN AN APPROXIMATE 8' JOG NORTHERLY OF THE FEE CORRIDOR AT THE SECTION LINE COMMON TO SECTIONS 10 AND 11. THIS RESOLUTION RESULTED IN A DEFLECTION ANGLE OF 8°26'56" LT AT STATION 1269+32.00, VERSUS THE RECORD DEFLECTION ANGLE OF 8°28' LT, AND A DEFLECTION ANGLE OF 12°04'16" LT AT STATION 1282+15.30 BK 1+12.36 AH, VERSUS THE RECORD DEFLECTION ANGLE OF 12°38' LT. THE MEASURED OFFSET AT STATION 1282+15.30 BK 1+12.36 AH IS 1.4' LT, VERSUS THE RECORD OFFSET OF 0.6' LT. THE MEASURED SPAN DISTANCE BETWEEN THE TWO ANGLE POINT TOWERS IS 0.58' SHORTER THAN THE RECORD MAP DISTANCE.

THE BEST FIT LINE DESCRIBED ABOVE WAS HELD BETWEEN TOWERS HB137 (27/1) THROUGH HB142 (28/2). THIS LINE WAS EXTENDED THE RECORD MAP DISTANCE OF 320.9' TO THE POINT OF DEFLECTION AT STATION 64+95.90, AS SHOWN ON THE PLAN MAPS AND DESCRIBED IN THE DECLARATION OF TAKING. THE RECORD DEFLECTION OF 2°55' LT WAS HELD AS FIXED, AND THE RESULTANT BEARING FORWARD WAS HELD AS THE SURVEY LINE TO THE EASTERLY LIMITS OF THIS SURVEY.

BONNEVILLE-COULEE LINE REFERENCE TABLE

BPA TRACT ID	RECORDING INFORMATION	BPA MAP SERIAL NUMBER	NATURE OF BPA'S RIGHTS
B-C-23-A-92	DECLARATION OF TAKING FILED FEBRUARY 3, 1939, IN THE DISTRICT COURT OF THE UNITED STATES, WESTERN DISTRICT OF WASHINGTON, SOUTHERN DIVISION, CIVIL CAUSE NO. 34	1193	FEE
B-C-23-A-94ff		1193	FEE
B-C-23-A-95		1193-1194	FEE
B-C-23-A-96gg		1193-1194	FEE
B-C-24-A-97		1194	FEE
B-C-24-A-98		1194	FEE
B-C-24-A-99		1194	FEE
B-C-24-A-100gg		1194	FEE
B-C-24-A-101gg		1194	FEE
B-C-24-A-102		1194-1195	FEE
B-C-25-A-103	ORDER FILED SEPTEMBER 11, 1939, IN THE DISTRICT COURT OF THE UNITED STATES, WESTERN DISTRICT OF WASHINGTON, SOUTHERN DIVISION, CIVIL CAUSE NO. 34	1195, 7691	EASEMENT
BMTN-SS-1	VOL. 337 PAGE 827, AFN 254715	PL6-742401	FEE
B-C-26-A-104	JUDGEMENT ON THE DECLARATION OF TAKING FILED APRIL 4, 1939, IN THE DISTRICT COURT OF THE UNITED STATES, EASTERN DISTRICT OF WASHINGTON, SOUTHERN DIVISION, CIVIL CAUSE NO. 8	1034	FEE
B-C-26-A-105		1034	FEE
B-C-26-A-106		1034	FEE
B-C-26-A-107		1034	FEE
B-C-26-A-108		1034	FEE
B-C-26-A-109		1034	FEE
B-C-26-A-111jj		1034	FEE
B-C-26-A-113		1034	FEE
B-C-27-A-116		1033	FEE
B-C-27-A-117AI	DECLARATION OF TAKING FILED MARCH 23, 1942, IN THE DISTRICT COURT OF THE UNITED STATES, EASTERN DISTRICT OF WASHINGTON, SOUTHERN DIVISION, CIVIL CAUSE NO. 98	1033	EASEMENT

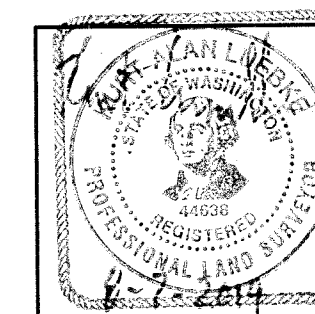
DJ & A ENGINEERS PLANNERS SURVEYORS
 3203 RUSSELL STREET
 MISSOULA, MONTANA 59801

BPA

RECORD OF SURVEY
 BONNEVILLE-COULEE MILES 23-27
 HANFORD-OSTRANDER MILES 125-126

JUNE 28, 2019
 NO SCALE
 SHEET 2 OF 9

DESIGNED : C. GREENAWALT DRAWN : K. TODD CHK'D : K. LUEBKE
 W/O : 00416290-15 PROJ NO: 6660.064 SER NO 336876-C



RECORD OF SURVEY

FOR THE BONNEVILLE POWER ADMINISTRATION
 BONNEVILLE-COULEE LINE RIGHT-OF-WAY MILES 23 TO 27
 HANFORD-OSTRANDER NO.1 RIGHT-OF-WAY MILES 125 TO 126

SURVEY LINE RESOLUTIONS CONTINUED

HANFORD-OSTRANDER LINE

THE TANGENT BETWEEN STATIONS 82+50 AND 39+02.9 BK 39+03.1 AH WAS RESOLVED BY HOLDING THE FOUND TOWER CENTER MONUMENTS AT ANGLE POINTS FY576 (33/3) AND FY580 (34/3). THE MEASURED TANGENT DISTANCE IS 2.38' SHORTER THAN THE RECORD MAP DISTANCE.

THE TANGENT BETWEEN STATIONS 39+02.9 BK 39+03.1 AH AND 14+75.2 BK 1293+87.6 AH WAS RESOLVED BY HOLDING THE FOUND TOWER CENTER MONUMENT AT ANGLE POINT FY580 (34/3), AND THE FOUND MONUMENT AT ANGLE POINT FY582 (34/5). THIS RESULTED IN A DEFLECTION ANGLE OF 2°53'RT AT STATION 39+02.9 BK 39+03.1 AH, VERSUS THE RECORD DEFLECTION ANGLE OF 2°40'RT. THE MEASURED TANGENT DISTANCE IS 1.12' LONGER THAN THE RECORD MAP DISTANCE.

A BPA BRASS CAP WAS FOUND AND ACCEPTED AT ANGLE POINT FY582 (34/5). THE MONUMENT WAS LOCATED 1.8', S65°W FROM THE SURVEYED TOWER CENTER AND 1.7' WESTERLY OF THE TOWER BISECTOR ANGLE. THIS MONUMENT IS VERTICAL AND APPEARS TO BE UNDISTURBED IN POSITION. IT IS ASSUMED THIS MONUMENT WAS SET AT THE TIME OF ACQUISITION, AND IS THE BEST AVAILABLE EVIDENCE FOR THE PLACEMENT OF THE LINE AS INTENDED.

THE TANGENT BETWEEN STATIONS 14+75.2 BK 1293+87.6 AH AND 1268+01.0 WAS RESOLVED BY HOLDING THE FOUND TOWER CENTER MONUMENTS AT ANGLE POINTS FY582 (34/5) AND FY583 (35/1). THIS RESULTED IN A DEFLECTION ANGLE OF 13°19'56" RT AT STATION 14+75.2 BK 1293+87.6 AH, VERSUS THE RECORD DEFLECTION ANGLE OF 13°19'30"RT. THE MEASURED TANGENT DISTANCE IS 1.23' SHORTER THAN THE RECORD MAP DISTANCE.

THE TANGENT BETWEEN STATIONS 1268+01.0 AND 1253+25.0 WAS RESOLVED BY HOLDING THE FOUND TOWER CENTER MONUMENTS AT ANGLE POINTS FY583 (35/1) AND FY585 (35/3). THIS RESULTED IN A DEFLECTION ANGLE OF 5°12'46"LT AT STATION 1268+01.0, VERSUS THE RECORD DEFLECTION ANGLE OF 5°13'40"LT. THE MEASURED TANGENT DISTANCE IS 0.07' LONGER THAN THE RECORD MAP DISTANCE.

A BENT 1" IRON PIPE WAS FOUND AT TANGENT TOWER CENTER FY584 (35/2). THIS MONUMENT WAS FOUND TO BE 0.23' LT OF THE ABOVE RESOLVED TANGENT AND 0.35', SOUTHEAST OF THE SURVEYED TOWER CENTER. DUE TO THIS MONUMENT BEING DISTURBED, IT WAS NOT HELD FOR THE RESOLUTION.

THE TANGENT BETWEEN STATIONS 1253+25.0 AND 1176+82.6 WAS RESOLVED BY HOLDING THE FOUND TOWER CENTER MONUMENTS AT ANGLE POINTS FY585 (35/3) AND FY592 (37/1). THIS RESULTED IN A DEFLECTION ANGLE OF 12°23'15" RT AT STATION 1253+25.0, VERSUS THE RECORD DEFLECTION ANGLE OF 12°22'40"RT. THE MEASURED TANGENT DISTANCE IS 2.48' SHORTER THAN THE RECORD MAP DISTANCE.

TWO BPA BRASS CAP POT MONUMENTS WERE FOUND ALONG THIS TANGENT. THE MONUMENT AT STATION 1189+65.0 WAS FOUND 0.16' LEFT OF THE ABOVE RESOLVED LINE AND THE MONUMENT AT STATION 1178+50.0 WAS FOUND 0:08' RT OF THE RESOLVED LINE.

HANFORD-OSTRANDER NO.1 REFERENCE TABLE

BPA TRACT ID	RECORDING INFORMATION	BPA MAP SERIAL NUMBER	NATURE OF BPA'S RIGHTS
HA-O-124-A-604	VOL. 159 PAGE 669, AFN 143503	150425	EASEMENT
HA-O-125-A-605	VOL. 152 PAGE 391, AFN 136665	150425	EASEMENT
HA-O-125-A-606	VOL. 152 PAGE 532, AFN 136814	150425	EASEMENT
HA-O-125-A-607	DECLARATION OF TAKING FILED JUNE 1, 1971, IN THE DISTRICT COURT OF THE UNITED STATES, EASTERN DISTRICT OF WASHINGTON, SOUTHERN DIVISION, CIVIL CAUSE NO. 2733	150425	EASEMENT
HA-O-125-A-608	VOL. 153 PAGE 124, AFN 137206	150425	EASEMENT
HA-O-125-A-609	VOL. 153 PAGE 101, AFN 137181	150425-150426	EASEMENT
HA-O-126-A-610	VOL. 152 PAGE 388, AFN 136664	150426	EASEMENT
HA-O-126-A-611	VOL. 179 PAGE 694, AFN 161496 (KLICKITAT) BOOK 73 PAGE 162, AFN 84541 (SKAMANIA)	150426	EASEMENT
HA-O-126-A-612	VOL. 179 PAGE 694, AFN 161496 (KLICKITAT) BOOK 73 PAGE 162, AFN 84541 (SKAMANIA)	150426	EASEMENT
HA-O-126-A-613	BOOK 63 PAGE 41, AFN 73646	150426-150427	EASEMENT
HA-O-127-A-615	BOOK 62 PAGE 13, AFN 72489	150427	EASEMENT
HA-O-127-A-616	BOOK 64 PAGE 712, AFN 75524	150427	EASEMENT
HA-O-127-A-617	BOOK 64 PAGE 712, AFN 75524	150427-150428	EASEMENT
HA-O-127-A-618	BOOK 64 PAGE 712, AFN 75524	150428	EASEMENT
HA-O-127-A-619	BOOK 64 PAGE 712, AFN 75524	150428	EASEMENT

TRANSMISSION LINE RIGHT-OF-WAY CORRIDOR RESOLUTION

CONTROLLING LANGUAGE IN THE VARIOUS ACQUISITION DOCUMENTS WAS USED TO RESOLVE THE EXTENTS OF THE TRANSMISSION CORRIDOR. THE RESOLVED BONNEVILLE-COULEE SURVEY LINE IN SKAMANIA COUNTY WAS OFFSET 87.5' SOUTHERLY AND 212.5' NORTHERLY. THE RESOLVED BONNEVILLE-COULEE SURVEY LINE IN KLICKITAT COUNTY WAS OFFSET 212.5' SOUTHERLY AND 87.5' NORTHERLY.

THE CONTROLLING ELEMENTS FOR THE MCNARY-ROSS LINE WERE THE BONNEVILLE-COULEE LINE NORTHERLY RIGHT-OF-WAY EXTENTS, OR THE MCNARY-ROSS SURVEY LINE. THE APPROPRIATE CONTROLLING ELEMENTS WERE HELD, WHICH RESULTS IN A JOG IN THE RIGHT-OF-WAY ON THE EAST AND WEST LINES OF SECTION 9; THIS IS SHOWN IN DETAIL ON THE SURVEY LINE RETRACEMENT SHEETS.

THE CONTROLLING ELEMENTS FOR THE HANFORD-OSTRANDER LINE WERE THE MCNARY-ROSS NORTHERLY RIGHT-OF-WAY EXTENTS, OR THE HANFORD-OSTRANDER SURVEY LINE. THE APPROPRIATE CONTROLLING ELEMENTS WERE HELD. THE GAP BETWEEN THE MCNARY-ROSS AND HANFORD-OSTRANDER RIGHT-OF-WAYS, AS SHOWN ON BPA PLAN AND PROFILE SERIAL 150426, WAS VERIFIED AND FOUND TO EXIST PER ACQUISITION DOCUMENT CONTROLLING ELEMENTS. THE RIGHT-OF-WAY JOGS ON THE EAST AND WEST LINES OF SECTION 9 DUE TO THE CONTROLLING ELEMENTS FOR THE MCNARY-ROSS LINE. THIS IS SHOWN IN DETAIL ON THE SURVEY LINE RETRACEMENT SHEETS.

MCNARY-ROSS LINE

THE TANGENT BETWEEN STATIONS 80+25 AND 39+03 WAS RESOLVED BY HOLDING THE SURVEYED TOWER CENTERS AT GZ544 (117/3) AND GZ549 (118/4). THE MEASURED TANGENT DISTANCE IS 2.19' LONGER THAN THE RECORD MAP DISTANCE.

THE TANGENT BETWEEN STATIONS 39+03 AND 14+00 BK 1293+77.1 AH WAS RESOLVED BY HOLDING THE SURVEYED TOWER CENTERS AT GZ549 (118/4) AND GZ551 (118/6). THIS RESULTED IN A DEFLECTION ANGLE OF 3°27'RT AT STATION 39+03, VERSUS THE RECORD DEFLECTION ANGLE OF 3° RT. THE MEASURED TANGENT DISTANCE IS 1.22' LONGER THAN THE RECORD MAP DISTANCE.

THE TANGENT BETWEEN STATIONS 14+00 BK 1293+77.1 AH AND 1262+25.0 WAS RESOLVED BY HOLDING THE SURVEYED TOWER CENTERS AT GZ551 (118/6) AND GZ552 (119/1). THIS RESULTED IN A DEFLECTION ANGLE OF 9°06'36" RT AT STATION 14+00 BK 1293+77.1 AH, VERSUS THE RECORD DEFLECTION ANGLE OF 9°06'RT. THE MEASURED TANGENT DISTANCE IS 0.72' SHORTER THAN THE RECORD MAP DISTANCE.

THE TANGENT BETWEEN STATIONS 1262+25.0 AND 6764+75 WAS RESOLVED BY HOLDING THE SURVEYED TOWER CENTERS AT GZ552 (119/1) AND GZ562 (121/3). THIS RESULTED IN A DEFLECTION ANGLE OF 11°22'55" RT AT STATION 1262+25.0, VERSUS THE RECORD DEFLECTION ANGLE OF 11°22'RT. THE MEASURED TANGENT DISTANCE IS 3.21' SHORTER THAN THE RECORD MAP DISTANCE.

MCNARY-ROSS LINE REFERENCE TABLE

BPA TRACT ID	RECORDING INFORMATION	BPA MAP SERIAL NUMBER	NATURE OF BPA'S RIGHTS
MC-R-117-A-67	AFN 1086204	64917-64918	EASEMENT
MC-R-118-A-68	VOL. 115 PAGE 205, AFN 65835	64918	EASEMENT
MC-R-118-A-69	VOL. 114 PAGE 240, AFN 63639	64918	EASEMENT
MC-R-118-A-70	VOL. 114 PAGE 368, AFN 64068	64918	EASEMENT
MC-R-118-A-71	VOL. 114 PAGE 423, AFN 64245	64918	EASEMENT
MC-R-118-A-72	VOL. 114 PAGE 182, AFN 63478	64918	EASEMENT
MC-R-118-A-72A	VOL. 114 PAGE 185, AFN 63479	64918	EASEMENT
MC-R-118-A-73	VOL. 114 PAGE 256, AFN 63708	64918-64919	EASEMENT
MC-R-119-A-74	VOL. 114 PAGE 561, AFN 63738	64919	EASEMENT
MC-R-119-X-75	DOCUMENT NOT RECORDED	64919	PERMIT
MC-R-119-X-75C			
MC-R-119-A-76	BOOK 38 PAGE 378, AFN 47512	64919-64920	EASEMENT
MC-R-120-A-77	BOOK 38 PAGE 26, AFN 45694	64920	EASEMENT
MC-R-120-A-78	BOOK 37 PAGE 391, AFN 46420	64920	EASEMENT
MC-R-120-A-79	BOOK 37 PAGE 126, AFN 45884	64920	EASEMENT
MC-R-120-A-80	BOOK 38 PAGE 381, AFN 47513	64920	EASEMENT
MC-R-120-A-81	BOOK 39 PAGE 1, AFN 47809	64920	EASEMENT
MC-R-120-A-82	BOOK 39 PAGE 1, AFN 47809	64920-64921	EASEMENT
MC-R-121-A-83	BOOK 39 PAGE 1, AFN 47809	64921	EASEMENT

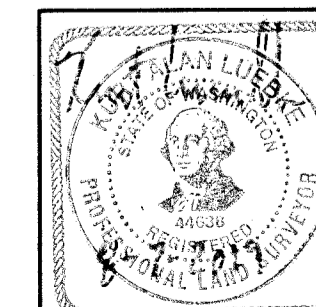
DJ & C ENGINEERS
 PLANNERS
 SURVEYORS
 3203 RUSSELL STREET
 MISSOULA, MONTANA 59801



RECORD OF SURVEY
 BONNEVILLE-COULEE MILES 23-27
 HANFORD-OSTRANDER MILES 125-126

JUNE 28, 2019
 NO SCALE
 SHEET 3 OF 9

DESIGNED : C. GREENAWALT DRAWN : K. TODD CHK'D : K. LUEBKE
 W/O : 00416290-15 PROJ NO: 6660.064 SER NO 336876-C



RECORD OF SURVEY

FOR THE BONNEVILLE POWER ADMINISTRATION
 BONNEVILLE-COULEE LINE RIGHT-OF-WAY MILES 23 TO 27
 HANFORD-OSTRANDER NO.1 RIGHT-OF-WAY MILES 125 TO 126
 IN THE SOUTHWEST 1/4 OF SECTION 9 AND THE SOUTHEAST 1/4 OF SECTION 8, T3N, R10E, W.M.,
 SKAMANIA COUNTY WASHINGTON

LEGEND

- $\frac{X}{X}$ BPA OPERATING TOWER NUMBERS
- FOUND MONUMENT (AS NOTED IN TABLE)
- SET MONUMENT (AS NOTED IN TABLE)
- ◇ BPA ROTATED STEEL TOWER
- BPA STEEL TOWER
- GZXXX, ASXXX, FYXXX BPA TOWER SERIAL NUMBERS
- BPA TRANSMISSION LINE
- SURVEY LINE
- BPA FEE RIGHT-OF-WAY LINE
- BPA EASEMENT RIGHT-OF-WAY LINE
- PLSS SECTION LINE
- PLSS QUARTER SECTION LINE
- ⊕ FOUND PLSS MONUMENT
- xxx + xx ⊕ LINE MILE MARKER STATION PER BPA MILE MAPS
- AH STATION AHEAD
- BK STATION BACK

BASIS OF BEARINGS AND COORDINATES

BEARINGS SHOWN HEREON ARE BASED UPON GRID NORTH OF THE WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (4602), NAD83(2011) EPOCH 2010.0000.

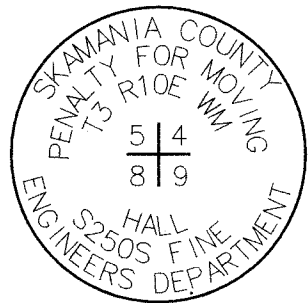
COORDINATES SHOWN HEREON ARE WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (4602), NAD83(2011) EPOCH 2010.0000.

UNITS FOR DISTANCES, STATIONS AND COORDINATES ARE US SURVEY FEET. DISTANCES SHOWN ARE GROUND. COORDINATES SHOWN ARE GRID. THE OVERALL PROJECT COMBINED GROUND TO GRID SCALE FACTOR IS 0.99996425.

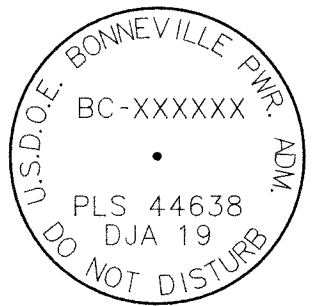
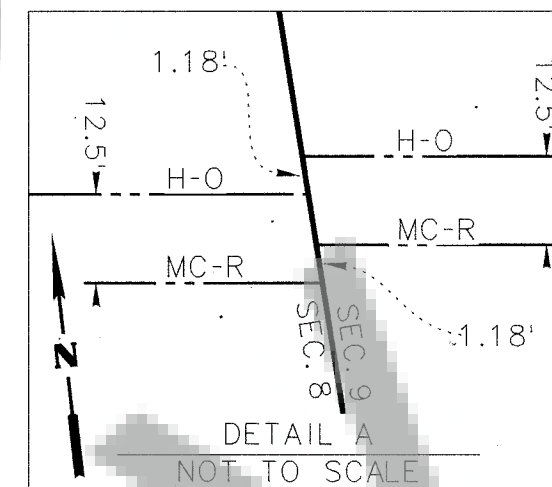
SURVEY REFERENCES

- [] BPA PLAN & PROFILE MAPS RECORD SERIAL NO. 1193 AND 2949
- () BPA PLAN & PROFILE MAPS RECORD SERIAL NO. 64921 AND 64920
- { } BPA PLAN & PROFILE MAPS RECORD SERIAL NO. 150428A AND 150427A
- (BI) DOCKET 34 DECLARATION OF TAKING FILED 2/3/1939 RECORD

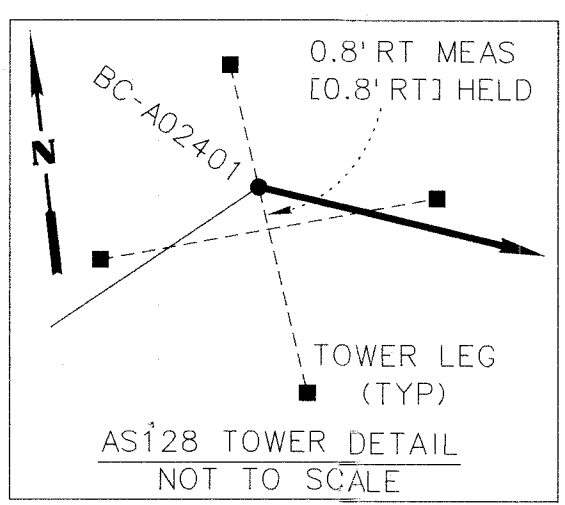
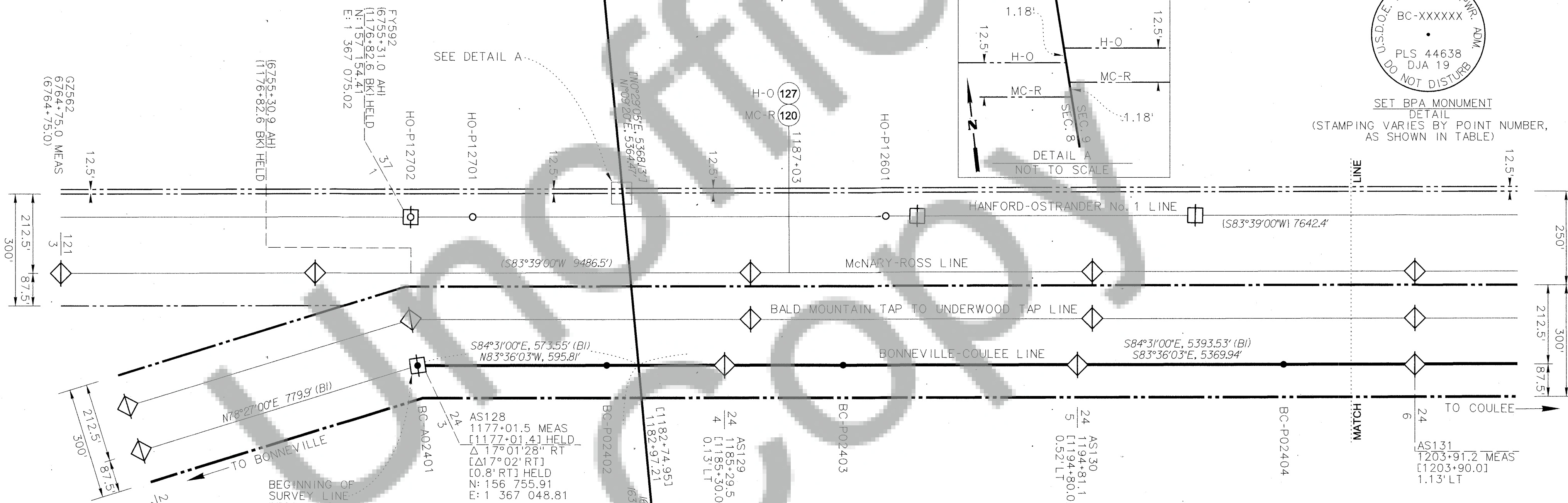
BONNEVILLE-COULEE LINE / SURVEY LINE MONUMENT TABLE					
STATION ID	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
BC-A02401	156755.88	1367048.86	SET 3-1/4" BPA ALUMINUM CAP "BC-A02401 PLS 44638 DJA 19"	1177+01.4	0.0
BC-P02402	156699.07	1367555.61	SET 3-1/4" BPA ALUMINUM CAP "BC-P02402 PLS 44638 DJA 19"	1182+11.3	0.0
BC-P02403	156627.99	1368189.47	SET 3-1/4" BPA ALUMINUM CAP "BC-P02403 PLS 44638 DJA 19"	1188+49.2	0.0
BC-P02404	156495.59	1369369.75	SET 3-1/4" BPA ALUMINUM CAP "BC-P02404 PLS 44638 DJA 19"	1200+36.9	0.0
HO-P12601	157011.41	1368348.59	FOUND 3-1/2" DEPARTMENT OF THE INTERIOR BRASS CAP, ILLEGIBLE	1189+66.7	398.8
HO-P12701	157135.83	1367241.39	FOUND 3-1/2" BPA BRASS CAP, ILLEGIBLE	1178+52.5	399.0
HO-P12702	157154.41	1367075.02	FOUND 3-1/2" DEPARTMENT OF THE INTERIOR BRASS CAP "H-O 6755+31.0 AH 1176+82.6 BK ELEV. 1809"	1176+85.1	399.4



WMO3N10E 300600
 FD 3" BRASS CAP
 N: 160 424.93
 E: 1 367 716.28
 (BRASS CAP)
 IN 1939, BPA LOCATED A BRASS MONUMENT.



SET BPA MONUMENT
 DETAIL
 (STAMPING VARIES BY POINT NUMBER,
 AS SHOWN IN TABLE)



IN 1939, BPA LOCATED AN IRON PIPE WITH BT'S. THE IRON PIPE WAS REPLACED WITH THE CONCRETE MONUMENT IN 1982 PER LCR BOOK 3/10 OF MONUMENTS PAGE 31.



WMO3N10E 300500
 FD 3" BRASS CAP
 N: 155 061.73
 E: 1 367 608.10
 (IRON PIPE AND BEARING TREES)

SECTIONS 8 AND 9, TOWNSHIP 3 NORTH, RANGE 10 EAST, W.M.

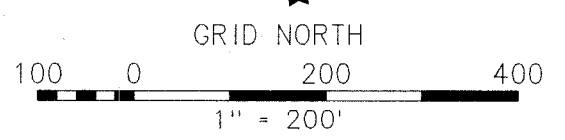
DJ & D ENGINEERS PLANNERS SURVEYORS
 3203 RUSSELL STREET
 MISSOULA, MONTANA 59801

BPA RECORD OF SURVEY
 BONNEVILLE-COULEE MILES 23-27
 HANFORD-OSTRANDER MILES 125-126

JUNE 28, 2019
 1" = 200'
 SHEET 4 OF 9

DESIGNED: C. GREENAWALT DRAWN: K. TODD CHK'D: K. LUEBKE

W/O: 00416290-15 PROJ NO: 6660.064 SER NO 336876-C



RECORD OF SURVEY

FOR THE BONNEVILLE POWER ADMINISTRATION
 BONNEVILLE-COULEE LINE RIGHT-OF-WAY MILES 23 TO 27
 HANFORD-OSTRANDER NO.1 RIGHT-OF-WAY MILES 125 TO 126
 IN THE SOUTH 1/2 SECTION 9, AND THE SOUTHWEST 1/4 OF SECTION 10, T3N, R10E, WM,
 SKAMANIA COUNTY WASHINGTON

SURVEY REFERENCES

- [] BPA PLAN & PROFILE MAPS RECORD SERIAL NO. 1193 AND 1194
- () BPA PLAN & PROFILE MAPS RECORD SERIAL NO. 64920
- { } BPA PLAN & PROFILE MAPS RECORD SERIAL NO. 150427A
- (B1) DOCKET 34 DECLARATION OF TAKING FILED 2/3/1939 RECORD

LEGEND

- BPA PRIMARY CONTROL
- BPA OPERATING TOWER NUMBERS
- FOUND MONUMENT (AS NOTED IN TABLE)
- SET MONUMENT (AS NOTED IN TABLE)
- BPA ROTATED STEEL TOWER
- BPA STEEL TOWER
- BPA TOWER SERIAL NUMBERS
- BPA TRANSMISSION LINE
- SURVEY LINE
- BPA FEE RIGHT-OF-WAY LINE
- BPA EASEMENT RIGHT-OF-WAY LINE
- PLSS SECTION LINE
- PLSS QUARTER SECTION LINE
- GIS TAX PARCELS
- FOUND PLSS MONUMENT
- LINE MILE MARKER STATION PER BPA MILE MAPS
- CENTER OF PLSS SECTION
- STATION AHEAD
- STATION BACK

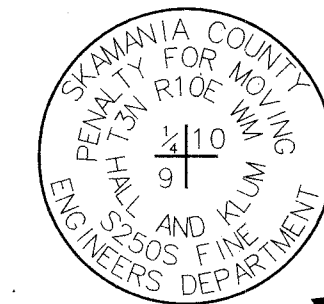
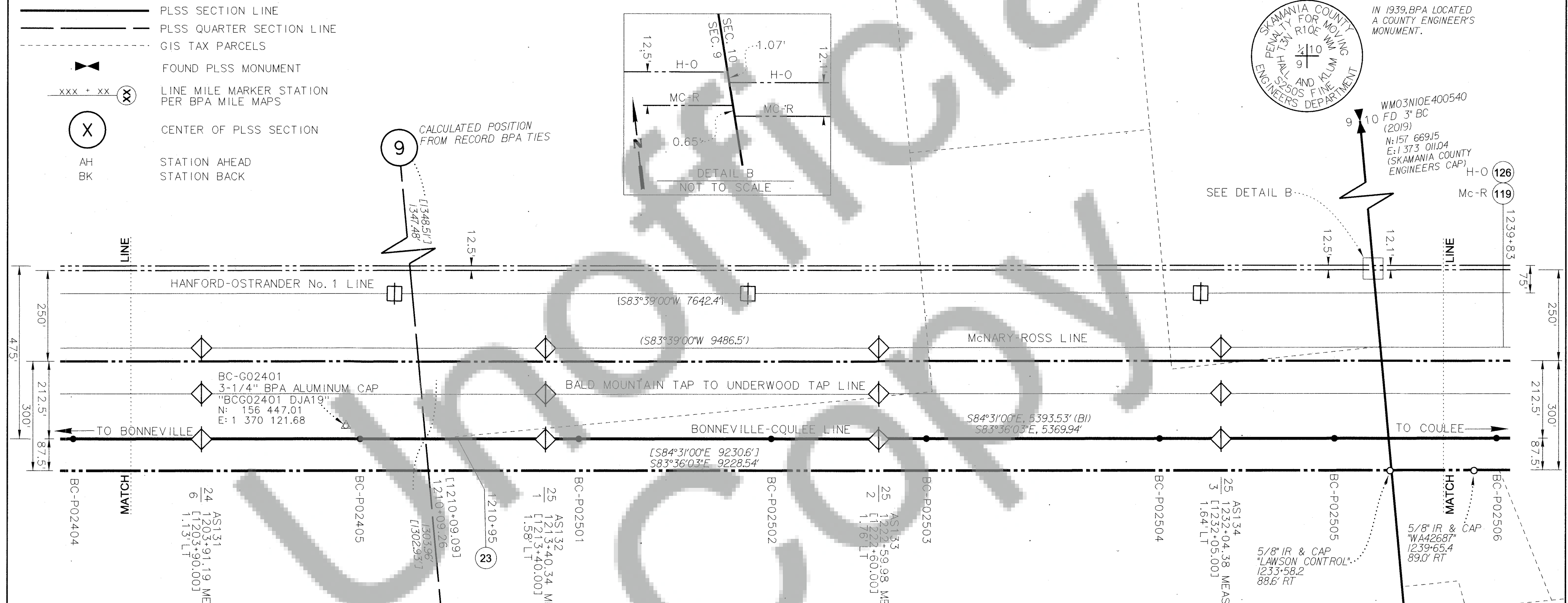
BASIS OF BEARINGS AND COORDINATES

BEARINGS SHOWN HEREON ARE BASED UPON GRID NORTH OF THE WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (4602), NAD83(2011) EPOCH 2010.0000.

COORDINATES SHOWN HEREON ARE WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (4602), NAD83(2011) EPOCH 2010.0000.

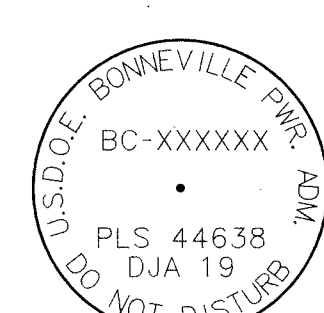
UNITS FOR DISTANCES, STATIONS AND COORDINATES ARE US SURVEY FEET. DISTANCES SHOWN ARE GROUND. COORDINATES SHOWN ARE GRID. THE OVERALL PROJECT COMBINED GROUND TO GRID SCALE FACTOR IS 0.99996425.

BONNEVILLE-COULEE LINE / SURVEY LINE MONUMENT TABLE					
STATION ID	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
BC-P02404	156495.59	1369369.75	SET 3-1/4" BPA ALUMINUM CAP "BC-P02404 PLS 44638 DJA19"	1200+36.9	0.0
BC-P02405	156407.48	1370155.43	SET 3-1/4" BPA ALUMINUM CAP "BC-P02405 PLS 44638 DJA19"	1208+27.6	0.0
BC-P02501	156340.08	1370756.19	SET 3-1/4" BPA ALUMINUM CAP "BC-P02501 PLS 44638 DJA19"	1214+32.1	0.0
BC-P02502	156280.89	1371284.17	SET 3-1/4" BPA ALUMINUM CAP "BC-P02502 PLS 44638 DJA19"	1219+63.4	0.0
BC-P02503	156233.15	1371709.55	SET 3-1/4" BPA ALUMINUM CAP "BC-P02503 PLS 44638 DJA19"	1223+91.5	0.0
BC-P02504	156161.42	1372349.05	SET 3-1/4" BPA ALUMINUM CAP "BC-P02504 PLS 44638 DJA19"	1230+35.0	0.0
BC-P02505	156107.62	1372828.66	SET 3-1/4" BPA ALUMINUM CAP "BC-P02505 PLS 44638 DJA19"	1235+17.6	0.0
BC-P02506	156057.78	1373272.97	SET 3-1/4" BPA ALUMINUM CAP "BC-P02506 PLS 44638 DJA19"	1239+64.8	0.0



IN 1939, BPA LOCATED A COUNTY ENGINEER'S MONUMENT.

WMO3N10E400540
 FD 3" BC (2019)
 N: 157 689.15
 E: 1373 011.04
 (SKAMANIA COUNTY ENGINEERS CAP)



SET BPA MONUMENT
 DETAIL
 (STAMPING VARIES BY POINT NUMBER,
 AS SHOWN IN TABLE)



SECTIONS 9 AND 10, TOWNSHIP 3 NORTH, RANGE 10 EAST, W.M.

DJ & D ENGINEERS PLANNERS SURVEYORS
 3203 RUSSELL STREET
 MISSOULA, MONTANA 59801

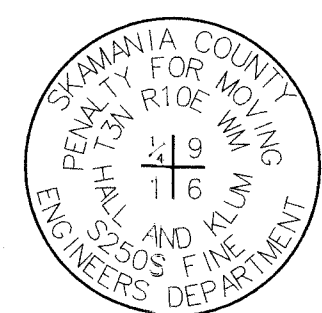
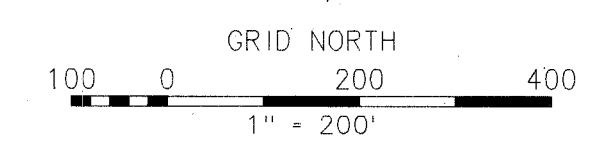
BPA

RECORD OF SURVEY
 BONNEVILLE-COULEE MILES 23-27
 HANFORD-OSTRANDER MILES 125-126

JUNE 28, 2019
 1" = 200'
 SHEET 5 OF 9

DESIGNED : C. GREENAWALT DRAWN : K. TODD CHK'D : K. LUEBKE

W/O : 00416290-15 PROJ NO: 6660.064 SER NO 336876-C



WMO3N10E340500
 FD 3" BRASS CAP
 N: 155 083.61
 E: 1370 308.65
 (SKAMANIA COUNTY ENGINEERS CAP)

IN 1939, BPA LOCATED A COUNTY ENGINEER'S MONUMENT.

LEGEND

- BPA TRANSMISSION LINE
- SURVEY LINE
- BPA FEE RIGHT-OF-WAY LINE
- BPA EASEMENT RIGHT-OF-WAY LINE
- PLSS SECTION LINE
- PLSS QUARTER SECTION LINE
- PLSS ONE-SIXTEENTH SECTION LINE
- GIS TAX PARCELS
- ASXXX, GZXXX, FYXXX BPA TOWER SERIAL NUMBERS
- LINE MILE MARKER STATION PER BPA MILE MAPS
- CENTER OF PLSS SECTION
- FOUND MONUMENT (AS NOTED IN TABLE)
- SET MONUMENT (AS NOTED IN TABLE)
- STATION AHEAD
- STATION BACK

RECORD OF SURVEY

FOR THE BONNEVILLE POWER ADMINISTRATION
 BONNEVILLE-COULEE LINE RIGHT-OF-WAY MILES 23 TO 27
 HANFORD-OSTRANDER NO.1 RIGHT-OF-WAY MILES 125 TO 126
 IN THE SOUTHEAST 1/4 SECTION 9, AND THE SOUTH 1/2 OF SECTION 10, T3N, R10E, WM,
 SKAMANIA COUNTY WASHINGTON

SURVEY REFERENCES

- [] BPA PLAN & PROFILE MAPS RECORD SERIAL NO. 1194 AND 1032
- () BPA PLAN & PROFILE MAPS RECORD SERIAL NO. 64919
- () BPA PLAN & PROFILE MAPS RECORD SERIAL NO. 150426A
- (B) DOCKET 34 DECLARATION OF TAKING FILED 2/3/1939 RECORD

BASIS OF BEARINGS AND COORDINATES

BEARINGS SHOWN HEREON ARE BASED UPON GRID NORTH OF THE WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (4602), NAD83(2011) EPOCH 2010.0000.

COORDINATES SHOWN HEREON ARE WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (4602), NAD83(2011) EPOCH 2010.0000.

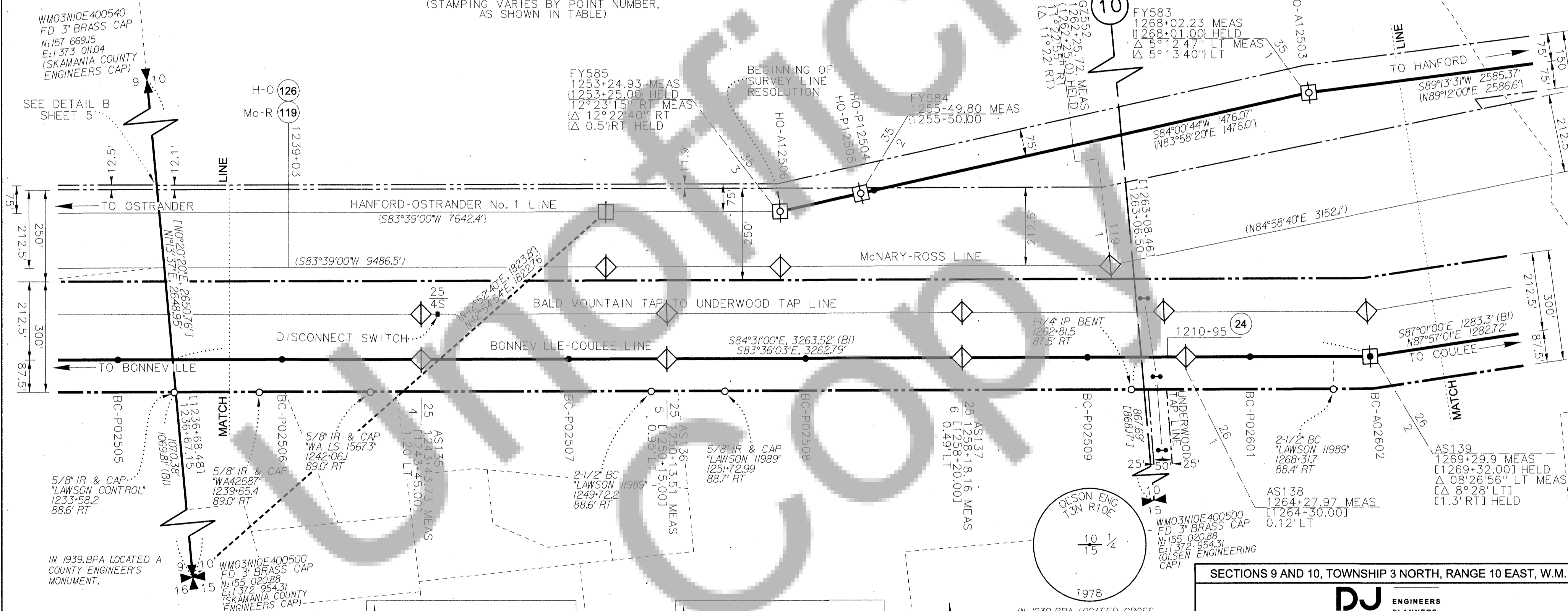
UNITS FOR DISTANCES, STATIONS AND COORDINATES ARE US SURVEY FEET. DISTANCES SHOWN ARE GROUND. COORDINATES SHOWN ARE GRID. THE OVERALL PROJECT COMBINED GROUND TO GRID SCALE FACTOR IS 0.99996425.

BONNEVILLE-COULEE LINE / SURVEY LINE MONUMENT TABLE					
STATION ID	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
BC-P02505	156107.62	1372828.66	SET 3-1/4" BPA ALUMINUM CAP "BC-P02505 PLS 44638 DJA19"	1235+17.6	0.0
BC-P02506	156057.78	1373272.97	SET 3-1/4" BPA ALUMINUM CAP "BC-P02506 PLS 44638 DJA19"	1239+64.8	0.0
BC-P02507	155970.72	1374049.54	SET 3-1/4" BPA ALUMINUM CAP "BC-P02507 PLS 44638 DJA19"	1247+46.2	0.0
BC-P02508	155898.78	1374691.16	SET 3-1/4" BPA ALUMINUM CAP "BC-P02508 PLS 44638 DJA19"	1253+91.9	0.0
BC-P02509	155813.17	1375454.37	SET 3-1/4" BPA ALUMINUM CAP "BC-P02509 PLS 44638 DJA19"	1261+59.9	0.0
BC-P02601	155763.76	1375894.67	SET 3-1/4" BPA ALUMINUM CAP "BC-P02601 PLS 44638 DJA19"	1266+03.0	0.0
BC-A02602	155727.35	1376219.57	SET 3-1/4" BPA ALUMINUM CAP "BC-A02602 PLS 44638 DJA19"	1269+32.0	0.0

HANFORD-OSTRANDER NO. 1 / SURVEY LINE MONUMENT TABLE					
STATION ID	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
HO-A12506	156302.88	1374667.06	FOUND 3-1/2" BPA BRASS CAP "H-O 1253+25 ELEV 1294"	1253+25.0	0.0
HO-P12505	156326.14	1374890.98	FOUND 1" IRON PIPE, BENT, TIED AT SPIN HOLE	1255+50.1	0.6 LT
HO-P12504	156330.22	1374927.85	SET 3-1/4" BPA ALUMINUM CAP "HO-P10701 PLS 44638 DJA19"	1255+87.2	0.0
HO-A12503	156456.85	1376135.03	FOUND 3-1/2" BPA BRASS CAP "H-O 1268+01.03 EL. 762"	1268+01.0	0.0



SET BPA MONUMENT
 DETAIL
 (STAMPING VARIES BY POINT NUMBER,
 AS SHOWN IN TABLE)



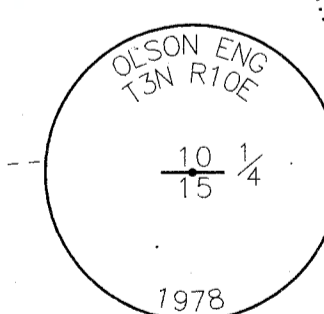
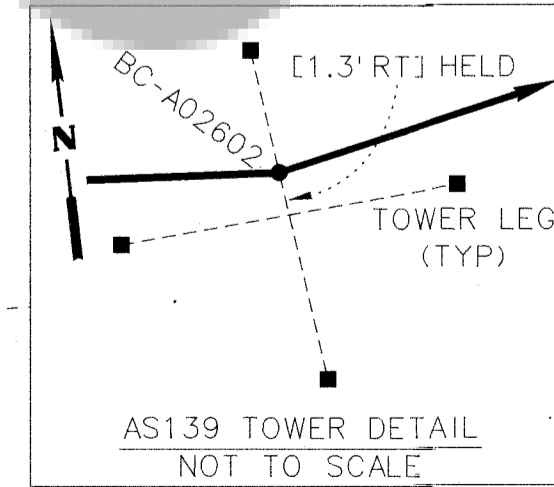
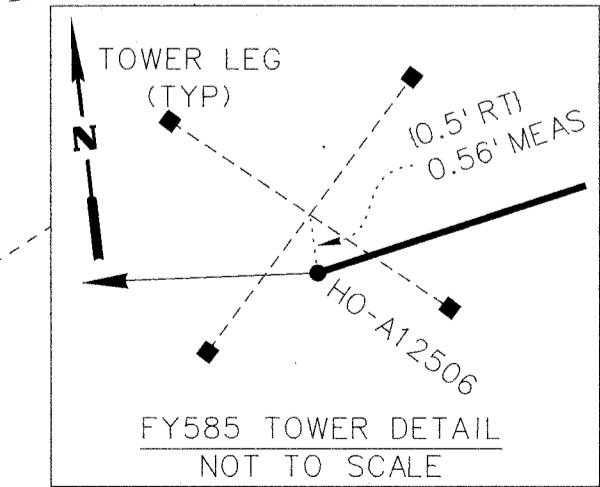
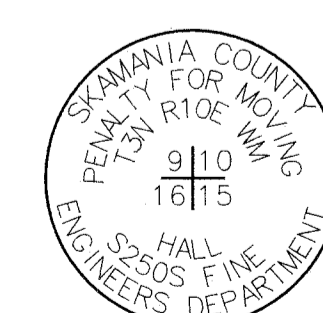
WMO3N10E400540
 FD 3" BRASS CAP
 N: 157 669.15
 E: 1373 011.04
 (SKAMANIA COUNTY ENGINEERS CAP)

SEE DETAIL B
 SHEET 5

TO BONNEVILLE

5/8" IR & CAP
 "LAWSON CONTROL"
 1233+58.2
 88.6' RT

IN 1939, BPA LOCATED A
 COUNTY ENGINEER'S
 MONUMENT.



IN 1939, BPA LOCATED CROSS
 FENCES. THE BRASS CAP WAS SET
 IN A FENCE CORNER IN 1978 PER
 LCR AFN 169133.

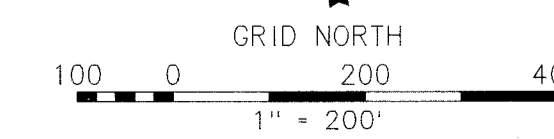
SECTIONS 9 AND 10, TOWNSHIP 3 NORTH, RANGE 10 EAST, W.M.

DJ & D ENGINEERS PLANNERS SURVEYORS
 3203 RUSSELL STREET
 MISSOULA, MONTANA 59801

BPA RECORD OF SURVEY
 BONNEVILLE-COULEE MILES 23-27
 HANFORD-OSTRANDER MILES 125-126

JUNE 28, 2019
 1" = 200'
 SHEET 6 OF 9

DESIGNED: C. GREENAWALT	DRAWN: K. TODD	CHK'D: K. LUEBKE
W/O: 00416290-15	PROJ NO: 6660.064	SER NO 336876-C



LEGEND

- BPA TRANSMISSION LINE
- SURVEY LINE
- BPA FEE RIGHT-OF-WAY LINE
- BPA EASEMENT RIGHT-OF-WAY LINE
- PLSS SECTION LINE
- PLSS QUARTER SECTION LINE
- PLSS ONE-SIXTEENTH SECTION LINE
- GIS TAX PARCELS
- WHITE SALMON RIVER
- HIGHWAY 141
- LINE MILE MARKER STATION PER BPA MILE MAPS
- STATION AHEAD
- STATION BACK
- BPA PRIMARY CONTROL



RECORD OF SURVEY

FOR THE BONNEVILLE POWER ADMINISTRATION
 BONNEVILLE-COULEE LINE RIGHT-OF-WAY MILES 23 TO 27
 HANFORD-OSTRANDER NO.1 RIGHT-OF-WAY MILES 125 TO 126
 IN THE SOUTHEAST 1/4 SECTION 10, AND THE SOUTHWEST 1/4 OF SECTION 11, T3N, R10E, WM,
 SKAMANIA AND KLICKITAT COUNTY WASHINGTON

SURVEY REFERENCES

- [] BPA PLAN & PROFILE MAPS RECORD SERIAL NO. 1195, 1250, 7691, 1032, AND 1034
- () BPA PLAN & PROFILE MAPS RECORD SERIAL NO. 64919 AND 64918
- [] BPA PLAN & PROFILE MAPS RECORD SERIAL NO. 150425A AND 150426A
- (B) DOCKET 34 DECLARATION OF TAKING FILED 2/3/1939 RECORD

BONNEVILLE-COULEE LINE / SURVEY LINE MONUMENT TABLE					
STATION ID	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
BC-A02602	155727.35	1376219.57	SET 3-1/4" BPA ALUMINUM CAP "BC-A02602 PLS 44638 DJA19"	1269+32	0.0
BC-A02603	155773.22	1377501.43	SET 3-1/4" BPA ALUMINUM CAP "BC-A02603 PLS 44638 DJA19"	1282+15.3	0.0
BC-P02604	155950.21	1378204.96	SET 3-1/4" BPA ALUMINUM CAP "BC-A02604 PLS 44638 DJA19"	1289+40.7	0.0
BC-P02605	156079.86	1378207.99	SET 3-1/4" BPA ALUMINUM CAP "BC-A02605 PLS 44638 DJA19"	8+37.9	0.0
BC-P02701	156144.21	1378463.89	SET 3-1/4" BPA ALUMINUM CAP "BC-P02701 PLS 44638 DJA19"	11+36.4	0.0
BC-P02702	156248.22	1378877.27	SET 3-1/4" BPA ALUMINUM CAP "BC-P02702 PLS 44638 DJA19"	15+62.7	0.0
BC-P02703	156373.89	1379376.73	SET 3-1/4" BPA ALUMINUM CAP "BC-P02703 PLS 44638 DJA19"	20+77.7	0.0
BC-P02704	156499.88	1379877.65	SET 3-1/4" BPA ALUMINUM CAP "BC-P02704 PLS 44638 DJA19"	25+94.2	0.0

HANFORD-OSTRANDER NO.1 / SURVEY LINE MONUMENT TABLE					
STATION ID	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
HO-A12503	156456.85	1376135.03	FOUND 3-1/2" BPA BRASS CAP "H-O 1268+01.03 EL. 762"	1268+01.0	0.0
HO-P12502	156472.41	1377283.37	SET 3-1/4" BPA ALUMINUM CAP "HO-P10602 PLS 44638 DJA19"	1279+50.7	0.0
HO-P12501	156484.98	1378214.47	SET 3-1/4" BPA ALUMINUM CAP "HO-P10601 PLS 44638 DJA19"	1288+81.9	0.0
HO-A12402	156491.81	1378720.08	FOUND 3-1/2" BPA BRASS CAP, ILLEGIBLE	1293+87.6	0.0

BASIS OF BEARINGS AND COORDINATES

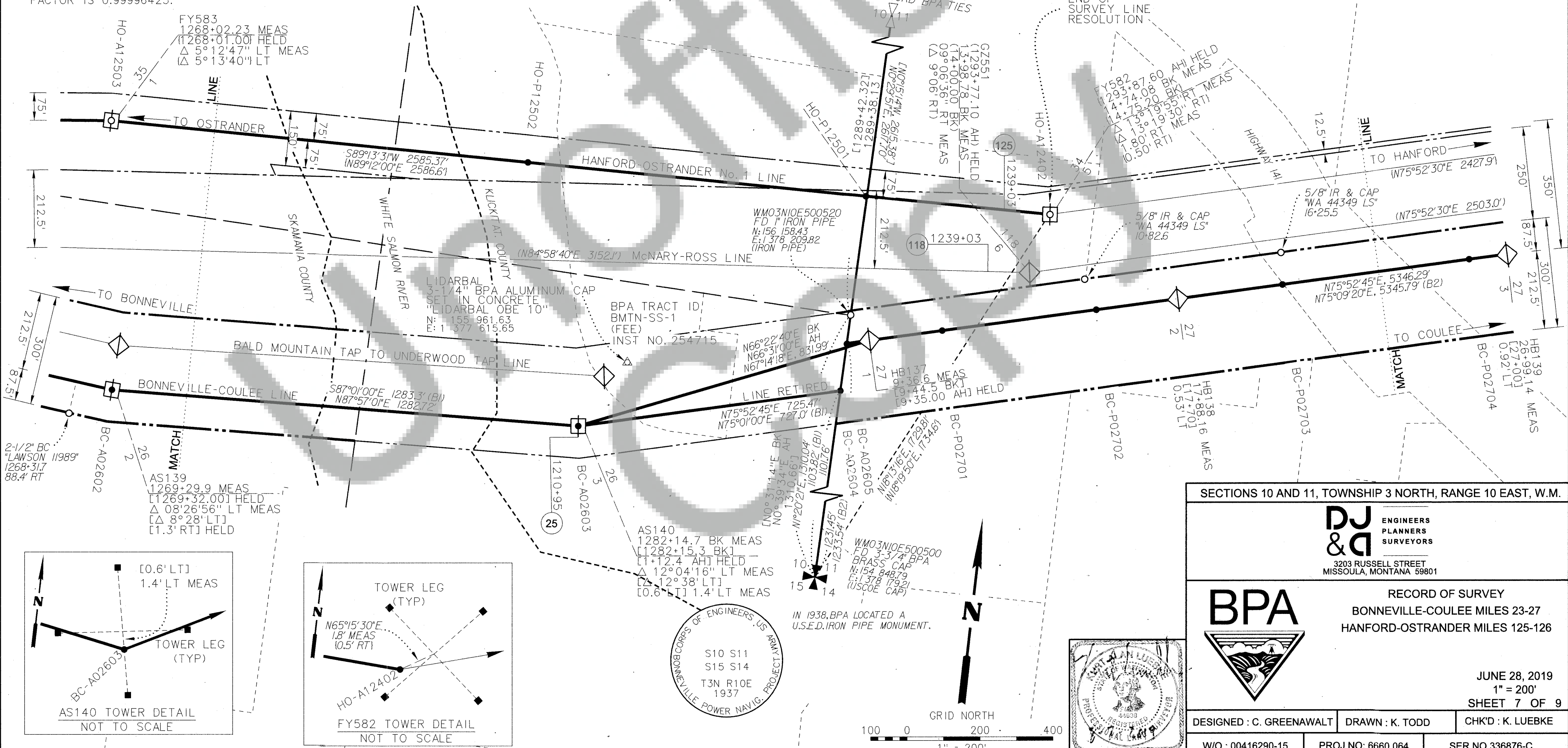
BEARINGS SHOWN HEREON ARE BASED UPON GRID NORTH OF THE WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (4602), NAD83(2011) EPOCH 2010.0000.

COORDINATES SHOWN HEREON ARE WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (4602), NAD83(2011) EPOCH 2010.0000.

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SET BPA MONUMENT
 (STAMPING VARIES BY POINT NUMBER,
 AS SHOWN IN TABLE)



SECTIONS 10 AND 11, TOWNSHIP 3 NORTH, RANGE 10 EAST, W.M.

DJ & D
 ENGINEERS
 PLANNERS
 SURVEYORS
 3203 RUSSELL STREET
 MISSOULA, MONTANA 59801

BPA

RECORD OF SURVEY
 BONNEVILLE-COULEE MILES 23-27
 HANFORD-OSTRANDER MILES 125-126

JUNE 28, 2019
 1" = 200'
 SHEET 7 OF 9

DESIGNED: C. GREENAWALT DRAWN: K. TODD CHK'D: K. LUEBKE

W/O: 00416290-15 PROJ NO: 6660.064 SER NO 336876-C

RECORD OF SURVEY

FOR THE BONNEVILLE POWER ADMINISTRATION
 BONNEVILLE-COULEE LINE RIGHT-OF-WAY MILES 23 TO 27
 HANFORD-OSTRANDER NO. 1 RIGHT-OF-WAY MILES 125 TO 126
 IN THE SOUTH 1/2 AND THE NORTHEAST 1/4 OF SECTION 11, T.3N., R.10E., W.M.,
 KLUCKITAT COUNTY WASHINGTON

SURVEY REFERENCES

- [] BPA PLAN & PROFILE MAPS RECORD SERIAL NO. 1251 AND 1034
- () BPA PLAN & PROFILE MAPS RECORD SERIAL NO. 64918
- () BPA PLAN & PROFILE MAPS RECORD SERIAL NO. 150425A
- (B2) JUDGEMENT ON THE DECLARATION OF TAKING FILED 4/9/1939 RECORD

LEGEND

- BPA TRANSMISSION LINE
- SURVEY LINE
- - - - - BPA FEE RIGHT-OF-WAY LINE
- - - - - BPA EASEMENT RIGHT-OF-WAY LINE
- PLSS SECTION LINE
- - - - - PLSS QUARTER SECTION LINE
- - - - - GIS TAX PARCELS
- FOUND PLSS MONUMENT
- CENTER OF PLSS SECTION
- AH STATION AHEAD
- BK STATION BACK
- X BPA OPERATING TOWER NUMBERS
- FOUND MONUMENT (AS NOTED IN TABLE)
- SET MONUMENT (AS NOTED IN TABLE)
- ◇ BPA ROTATED STEEL TOWER
- BPA STEEL TOWER
- ASXXX, GZXXX, HBXXX BPA TOWER SERIAL NUMBERS
- xxx * xx ⊗ LINE MILE MARKER STATION PER BPA MILE MAPS

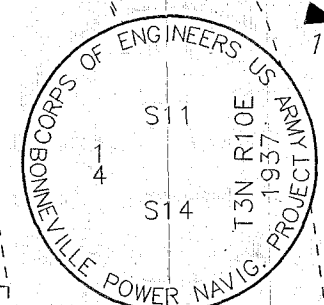
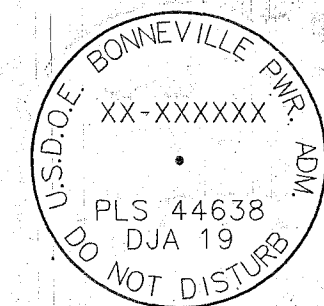
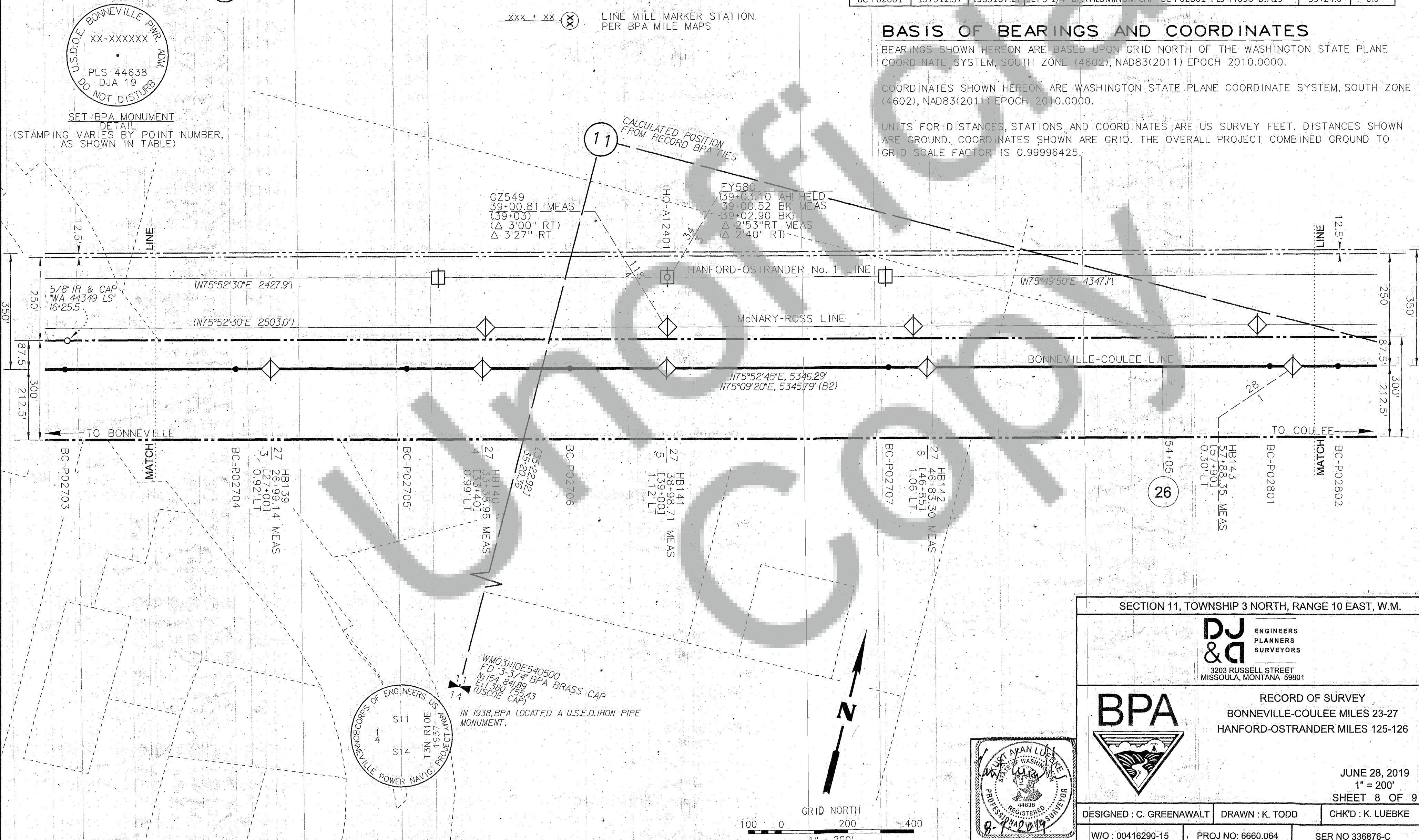
BONNEVILLE-COULEE LINE / SURVEY LINE MONUMENT TABLE					
STATION ID	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
BC-P02703	156373.89	1379376.73	SET 3-1/4" BPA ALUMINUM CAP "BC-P02703 PLS 44638 DJA19"	20+77.7	0.0
BC-P02704	156499.88	1379877.65	SET 3-1/4" BPA ALUMINUM CAP "BC-P02704 PLS 44638 DJA19"	25+94.2	0.0
BC-P02705	156625.91	1380378.61	SET 3-1/4" BPA ALUMINUM CAP "BC-P02705 PLS 44638 DJA19"	31+10.8	0.0
BC-P02706	156746.13	1380856.43	SET 3-1/4" BPA ALUMINUM CAP "BC-P02706 PLS 44638 DJA19"	36+03.6	0.0
BC-P02707	156981.07	1381790.35	SET 3-1/4" BPA ALUMINUM CAP "BC-P02707 PLS 44638 DJA19"	45+66.6	0.0
BC-P02708	157262.25	1382908.10	SET 3-1/4" BPA ALUMINUM CAP "BC-P02708 PLS 44638 DJA19"	57+19.2	0.0
BC-P02801	157312.37	1383107.27	SET 3-1/4" BPA ALUMINUM CAP "BC-P02801 PLS 44638 DJA19"	59+24.6	0.0

BASIS OF BEARINGS AND COORDINATES

BEARINGS SHOWN HEREON ARE BASED UPON GRID NORTH OF THE WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (4602), NAD83(2011) EPOCH 2010.0000.

COORDINATES SHOWN HEREON ARE WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (4602), NAD83(2011) EPOCH 2010.0000.

UNITS FOR DISTANCES, STATIONS AND COORDINATES ARE US SURVEY FEET. DISTANCES SHOWN ARE GROUND. COORDINATES SHOWN ARE GRID. THE OVERALL PROJECT COMBINED GROUND TO GRID SCALE FACTOR IS 0.999996425.



SECTION 11, TOWNSHIP 3 NORTH, RANGE 10 EAST, W.M.

DJ & D ENGINEERS PLANNERS SURVEYORS
 3203 RUSSELL STREET
 MISSOULA, MONTANA 59801







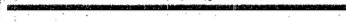


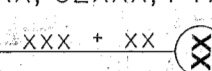





BPA

RECORD OF SURVEY
 BONNEVILLE-COULEE MILES 23-27
 HANFORD-OSTRANDER MILES 125-126

JUNE 28, 2019
 1" = 200'
 SHEET 8 OF 9

DESIGNED : C. GREENAWALT DRAWN : K. TODD CHK'D : K. LUEBKE
 W/O : 00416290-15 PROJ NO: 6660.064 SER NO 336876-C

LEGEND

-  BPA TRANSMISSION LINE
-  SURVEY LINE
-  BPA FEE RIGHT-OF-WAY LINE
-  BPA EASEMENT RIGHT-OF-WAY LINE
-  PLSS SECTION LINE
-  PLSS QUARTER SECTION LINE
-  GIS TAX PARCELS
-  FOUND PLSS MONUMENT
-  CENTER OF PLSS SECTION
- HBXXX, GZXXX, FYXXX BPA TOWER SERIAL NUMBERS
-  LINE MILE MARKER STATION PER BPA MILE MAPS
- AH STATION AHEAD
- BK STATION BACK
-  BPA OPERATING TOWER NUMBERS
-  FOUND MONUMENT (AS NOTED IN TABLE)
-  SET MONUMENT (AS NOTED IN TABLE)
-  BPA ROTATED STEEL TOWER
-  BPA STEEL TOWER

RECORD OF SURVEY

FOR THE BONNEVILLE POWER ADMINISTRATION
 BONNEVILLE-COULEE LINE RIGHT-OF-WAY MILES 23 TO 27
 HANFORD-OSTRANDER NO. 1 RIGHT-OF-WAY MILES 125 TO 126
 IN THE SOUTHEAST 1/4 AND THE NORTHEAST 1/4 OF SECTION 11
 AND THE WEST 1/2 OF SECTION 12, T3N, R10E, W.M.,
 KLICKITAT COUNTY WASHINGTON

SURVEY REFERENCES

- [] BPA PLAN & PROFILE MAPS RECORD SERIAL NO. 1251
- () BPA PLAN & PROFILE MAPS RECORD SERIAL NO. 64918
- [] BPA PLAN & PROFILE MAPS RECORD SERIAL NO. 150425A
- (B2) JUDGEMENT ON THE DECLARATION OF TAKING FILED 4/9/1939 RECORD

BASIS OF BEARINGS AND COORDINATES

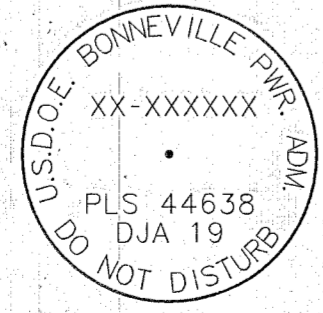
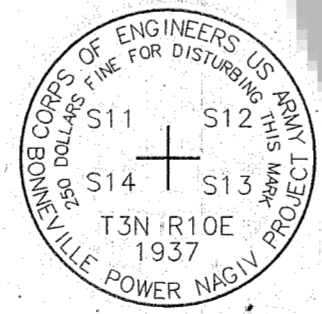
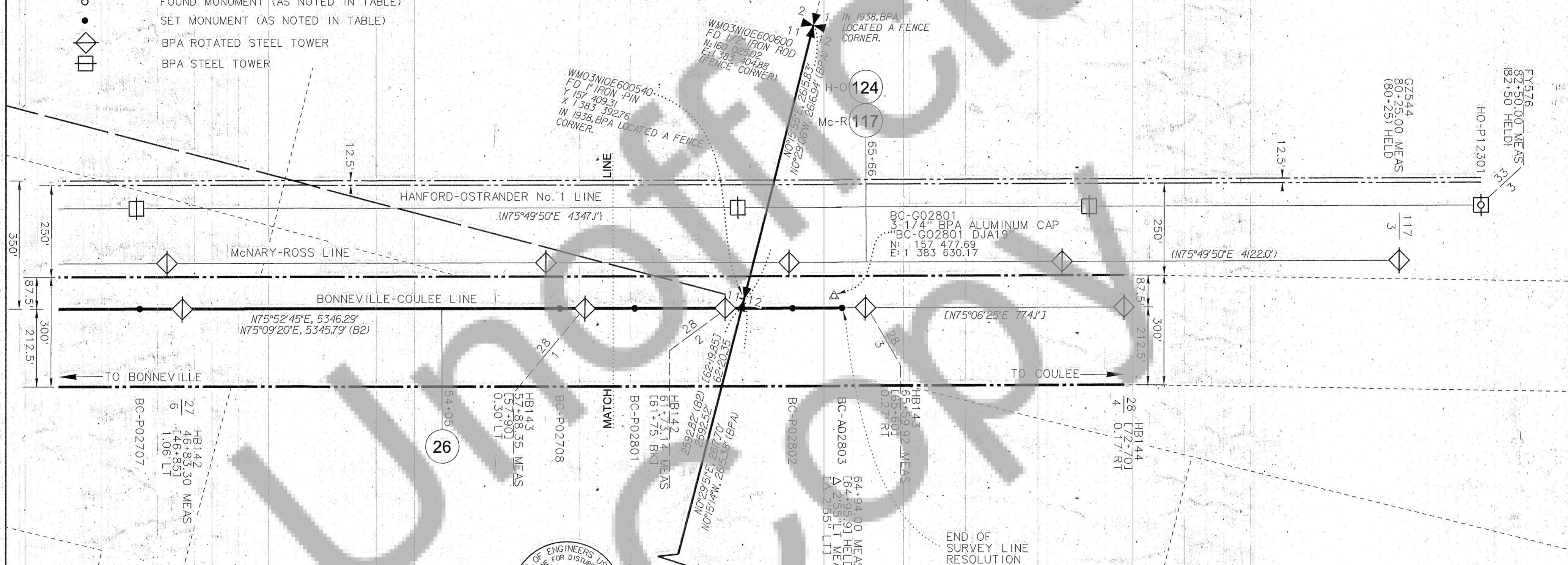
BEARINGS SHOWN HEREON ARE BASED UPON GRID NORTH OF THE WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (4602), NAD83(2011) EPOCH 2010.0000.

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BONNEVILLE-COULEE LINE / SURVEY LINE MONUMENT TABLE

STATION ID	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
BC-P02707	156981.07	1381790.35	SET 3-1/4" BPA ALUMINUM CAP "BC-P02707 PLS 44638 DJA19"	45+66.6	0.0
BC-P02708	157262.25	1382908.10	SET 3-1/4" BPA ALUMINUM CAP "BC-P02708 PLS 44638 DJA19"	57+19.2	0.0
BC-P02801	157312.37	1383107.27	SET 3-1/4" BPA ALUMINUM CAP "BC-P02801 PLS 44638 DJA19"	59+24.6	0.0
BC-P02802	157418.14	1383527.75	SET 3-1/4" BPA ALUMINUM CAP "BC-P02802 PLS 44638 DJA19"	63+58.2	0.0
BC-A02803	157451.29	1383659.47	SET 3-1/4" BPA ALUMINUM CAP "BC-A02803 PLS 44638 DJA19"	64+95.9	0.0




SET BPA MONUMENT
 DETAIL
 (STAMPING VARIES BY POINT NUMBER,
 AS SHOWN IN TABLE)

SECTIONS 11 AND 12, TOWNSHIP 3 NORTH, RANGE 10 EAST, W.M.



ENGINEERS
PLANNERS
SURVEYORS

3203 RUSSELL STREET
MISSOULA, MONTANA 59801



RECORD OF SURVEY
BONNEVILLE-COULEE MILES 23-27
HANFORD-OSTRANDER MILES 125-126

JUNE 28, 2019
1" = 200'
SHEET 9 OF 9

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