VICINITY MAP - NOT TO SCALE SKAMANIA COUNTY, WASHINGTON

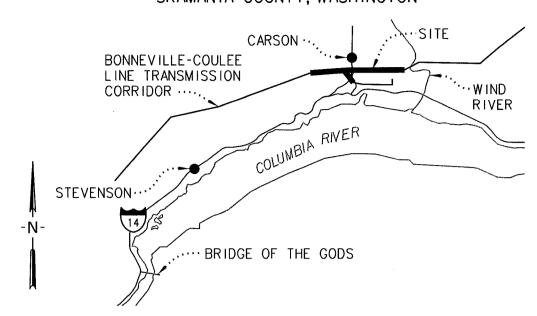


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ACQUISITION SURVEY LINE RETRACEMENT

RECORD OF SURVEY

FOR THE BONNEVILLE POWER ADMINISTRATION BONNEVILLE-COULEE LINE RIGHT-OF-WAY MILES 9 THRU 11 AND STEVENSON TAP TO BONNEVILLE-ALCOA No. 1 & 2 RIGHT-OF-WAY MILE 9

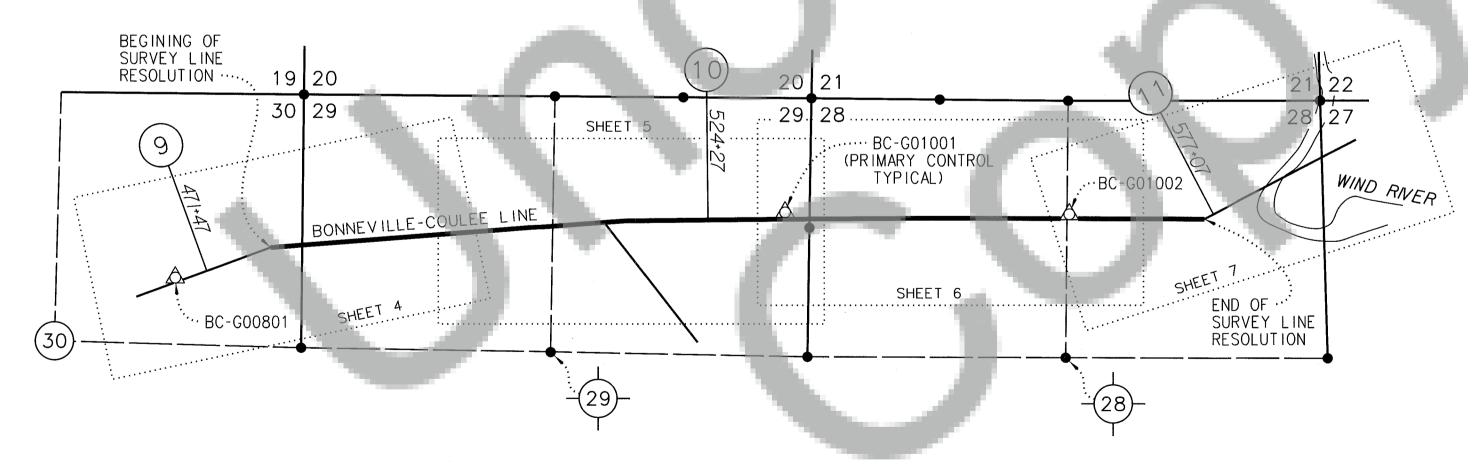
PROJECT LOCATION

IN THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4, THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 AND THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 30, THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4. THE NORTHWEST 1/4 OF THE NORTHWEST 1/4, THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4, THE NORTHEAST 1/4 OF THE NORTHWEST 1/4, THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4, THE NORTHWEST 1/4 OF THE NORTHEAST 1/4, THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4, AND THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 29, THE NORTHWEST 1/4 OF THE NORTHWEST 1/4, THE NORTHEAST 1/4 OF THE NORTHWEST 1/4, THE NORTHWEST 1/4 OF THE NORTHEAST 1/4, GOVERNMENT LOT 6 AND GOVERNMENT LOT 7 OF SECTION 28, ALL IN T3N, R8E, W.M.; SKAMANIA COUNTY, WASHINGTON

PURPOSE OF SURVEY

THE BONNEVILLE POWER ADMINISTRATION (B.P.A.), PART OF THE U.S. DEPARTMENT OF ENERGY HAS REQUESTED MACKAY SPOSITO INC. TO PROVIDE A RETRACEMENT SURVEY OF A PORTION OF B.P.A.'S BONNEVILLE-COULEE LINE AND STEVENSON TAP TO BONNEVILLE-ALCOA NO. 1 & 2 TRANSMISSION LINE RIGHT-OF-WAY CORRIDOR IN SKAMANIA COUNTY, WASHINGTON, THE REQUEST WAS TO DELINEATE THE SURVEY LINE AND THE NORTHERLY AND SOUTHERLY LIMITS OF B.P.A.'S RIGHT-OF-WAY WITHIN THE PROJECT AREA.

THE PROJECT IS WITHIN THE BONNEVILLE-COULEE LINE MILES 9 THROUGH 11 BETWEEN TOWER AS45 (STATION 478+56.88 IN SECTION 30, T. 3 N., R. 8 E., W.M.) AND TOWER AS56 (STATION 576+00.00 IN SECTION 28, T. 3 N., R. 8 E., W.M.). ALSO WITHIN THE STEVENSON TAP TO BONNEVILLE-ALCOA NO. 1 & 2 LINE'S MILE 9 BETWEEN STATION 477+06.0 AND STATION 512+22.0 IN SECTIONS 29 AND 30, T. 3 N., R. 8 E., W.M.



BASIS OF BEARINGS

BEARINGS AND COORDINATES SHOWN ARE GRID, BASED ON THE WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (4602), NAD83(2011)(EPOCH:2010.0), US SURVEY FOOT. DISTANCES SHOWN HEREON ARE GROUND DISTANCES, TO CONVERT DISTANCES SHOWN TO GRID, MULTIPLY BY 1.00000219.

MACKAY SPOSITO MAKES NO WARRANTIES AS TO MATTERS OF UNWRITTEN TITLE SUCH AS ACQUIESCENCE, ESTOPPEL, ADVERSE POSSESSION, ETC. OR WHETHER PARCELS SHOWN HEREON ARE LEGAL LOTS FOR ZONING PURPOSES, ETC.

SURVEYOR'S 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 JULY-AUGUST, 2018

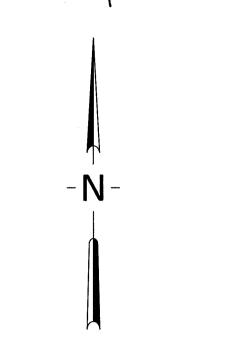
STEVEN R. FLOWERS, PLS CERTIFICATE NO. 38973



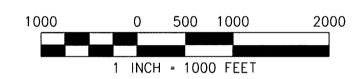
AUDITOR'S CERTIFICATE

FILED FOR RECORD THIS 1St DAY OF WHOLE, 2018

AT 3:11 P.M. IN BOOK ____ OF SURVEYS AT PAGE ___ AT THE REQUEST OF MACKAY SPOSITO. AFN \$ 2018001992



GRID NORTH



LEGEND

XXX+XX

BONNEVILLE-COULEE LINE MILE MARKER

STATION PER B.P.A. MILE MAPS ACQUISITION SURVEY LINE SECTION LINE QUARTER SECTION LINE SHEET LAYOUT BONNEVILLE POWER ADMINISTRATION FOUND CADASTRAL CORNER CONTROL MONUMENT AS NOTED

CENTER OF SECTION

SURVEYOR NOTES

- 1. ALL RECORD STATIONING IS BASED ON ORIGINAL B.P.A. PLAN MAPS, "MEAS" IS STATIONING DERIVED FROM MEASUREMENTS IN THIS SURVEY.
- 2. THERE MAY BE ADDITIONAL B.P.A. REAL PROPERTY RIGHTS THAT EXTEND BEYOND THE RIGHT-OF-WAY LIMITS SHOWN.
- 3. THIS SURVEY DOES NOT ADDRESS ENCROACHMENTS TO THE B.P.A. RIGHT-OF-WAY.
- 4. TRANSMISSION LINE OPERATING NAMES ARE SUBJECT TO CHANGE BY B.P.A.

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SHEET 1 OF 7

JOB NO.: <u>17026</u>

SER NO 335973-C FILE: 17026-R-1-0

FOR THE BONNEVILLE POWER ADMINISTRATION
BONNEVILLE-COULEE LINE RIGHT-OF-WAY MILES 9 THRU 11
AND STEVENSON TAP TO BONNEVILLE-ALCOA No. 1 & 2
RIGHT-OF-WAY THRU MILE 9

HISTORY OF RIGHT-OF-WAY ACQUISITION

BPA ACQUIRED THE BONNEVILLE-COULEE LINE RIGHT-OF-WAY, MILES 9 THROUGH 11, IN FEE BY CONDEMNATION IN 1939 TO 1941. THE ACQUISITIONS ARE IDENTIFIED AS TRACTS BC-43 AND BC-44, BC-45EE, BC-46 AND BC-47, BC-48CC, BC-49 THROUGH BC-57, BC-58DD, BC-59HH, BC-60DD, BC-61HH AND BC-2000 AND ON THE BONNEVILLE-COULEE LINE 2 MILE MAPS (BPA DRAWING SERIAL NUMBERS 1180-1181). THE RIGHT-OF-WAY IS DESCRIBED AS 300 FEET IN WIDTH, 212.5 FEET LEFT AND 87.5 FEET RIGHT OF THE BONNEVILLE-COULEE SURVEY LINE.

THE ORIGINAL BONNEVILLE-COULEE LINE (MILES 10 THROUGH 12) HAS BEEN GIVEN THE DESIGN NAME BONNEVILLE-COULEE LINE 2 ON PLAN AND PROFILE MAPS PER REVISION DATED 1949. THE LINE IS NOW OPERATED AS NORTH BONNEVILLE-MIDWAY NO.1 (MILES 9 THROUGH 11) TRANSMISSION LINE.

SUBSEQUENT TO THE ACQUISITION OF THE BONNEVILLE-COULEE LINE RIGHT-OF-WAY, THE BONNEVILLE-COULEE LINE NO.1 TRANSMISSION LINE WAS DESIGNED AND BUILT WITHIN THE BONNEVILLE-COULEE LINE FEE OWNED RIGHT-OF-WAY. THE LINE IS NOW OPERATED AS THE UNDERWOOD TAP TO BONNEVILLE PH1-ALCOA NO. 1 & 2.

BPA ACQUIRED THE STEVENSON TAP TO BONNEVILLE-ALCOA NO. 1 & 2 RIGHT-OF-WAY EASEMENTS (MILE 9) BY DEED CONVEYANCE IN 1963. THE ACQUISITIONS ARE IDENTIFIED AS TRACTS ST-38 THROUGH ST-41 AND ST-41A ON THE STEVENSON TAP TO BONNEVILLE-ALCOA NO 1 & 2 MILE MAP (BPA DRAWING SERIAL NUMBER 125909). THE SOUTHERLY RIGHT-OF-WAY LINE IS DESCRIBED AS RUNNING PARALLEL WITH, AND ADJOINING THE EXISTING 300 FOOT RIGHT-OF-WAY FOR THE BPA BONNEVILLE-COULEE LINE. FOR THE NORTHERLY RIGHT-OF-WAY LINE, DESCRIPTIONS ARE A DEFINED WIDTH LYING NORTHERLY AND RELATIVE TO THE SURVEY LINE OF STEVENSON TAP TO BONNEVILLE-ALCOA NO. 1 & 2 TRANSMISSION LINE. THIS LINE FOR MOST OF THE PROJECT AREAS HAS BEEN REMOVED WITH THE EXCEPTION OF ONE REMAINING TOWER AT STATION 511+77.0. THE LINE EXTENDS SOUTHEASTERLY FROM HERE OUTSIDE OF THIS PROJECT LIMITS.

ANALYSIS OF RECORD DOCUMENTS

RECORD DOCUMENTS FOR THE BONNEVILLE-COULEE LINE AND STEVENSON TAP TO BONNEVILLE-ALCOA NO. 1 & 2 TRANSMISSION LINES WERE ACQUIRED AS SHOWN ON THE MILE MAPS. THE STATION AND DISTANCE CALLS FOR THE SURVEY LINES AND CADASTRAL TIES IN THE DESCRIPTIONS ARE AS SHOWN ON BPA MAPPING.

CONTROL AND PROCEDURES

DURING JULY, 2018, MACKAY SPOSITO ESTABLISHED PRIMARY AND SECONDARY CONTROL POINTS AND CONDUCTED A PRELIMINARY RETRACEMENT FIELD SURVEY FOR THE PROJECT. MEASUREMENTS WERE OBSERVED TO ANGLE POINT TOWER CENTERS, ON-LINE (P.O.T.) TOWER CENTERS, RECOVERED ANGLE POINT MONUMENTS AND PUBLIC LAND SURVEY SYSTEM (PLSS) CORNERS.

STATIC AND RTK GPS MEASUREMENTS WERE USED IN THE FIELD SURVEY. THE PRIMARY CONTROL POINTS WERE MEASURED WITH STATIC GPS OBSERVATIONS. SECONDARY CONTROL POINTS AND FOUND PLSS CORNERS WERE MEASURED WITH RTK GPS MEASUREMENTS FROM TWO INDEPENDENT CONTROL POINTS.

TERRESTRIAL MEASUREMENTS WERE ALSO USED IN AREAS UNSUITABLE FOR USING GPS METHODS. DATA WAS COLLECTED RELATIVE TO TWO OR THREE SECONDARY CONTROL POINTS USING REDUNDANT MEASUREMENTS.

SCALE FACTORS WE COMPUTED AT THE SURVEY LINE ANGLE POINTS AND UTILIZED TO COMPUTE A MEAN PROJECT SCALE FACTOR. USING A MEAN SCALE FACTOR RESULTS IN A LESS THAN 0.1 FEET ABSOLUTE ERROR IN DISTANCE OVER THE LENGTH OF THE SURVEY LINE.

PROJECT SCALE FACTOR = 1.00000219.

TOWER CENTERS WERE COMPUTED AT THE INTERSECTION OF GPS RTK MEASUREMENTS TAKEN AT EACH OF THE FOUR TOWER LEGS.

RETRACEMENT AND ANALYSIS PROCEDURES

THE SURVEY LINE AND ASSOCIATED TIES TO CADASTRAL MONUMENTS SHOWN ON BPA BONNEVILLE-COULEE LINE 2 PLAN AND PROFILE MAPS (SERIAL NUMBERS 1180 THROUGH 1182), BPA BONNEVILLE-COULEE LINE RIGHT-OF-WAY PLAT MAPS (SERIAL NUMBERS 2994 THROUGH 2995), BPA STEVENSON TAP TO BONNEVILLE-ALCOA NO. 1 & 2 PLAN MAP (SERIAL NUMBER 125909) AND BPA BONNEVILLE-COULEE LINE NO. 1 PLAN AND PROFILE MAPS (SERIAL NUMBERS 7675 THROUGH 7677) WERE CONFIRMED BY REVIEWING ACQUISITION DOCUMENTS. BPA STEEL TOWER SITE DATA LISTS WERE REVIEWED TO IDENTIFY OFFSET TOWERS AND RECORD OFFSET DISTANCES TO SURVEY ANGLE POINTS. POSITIONS OF ANGLE POINT AND P.O.T. STRUCTURES WERE MEASURED. RECOVERED BPA ANGLE POINT AND CADASTRAL MONUMENTS WERE EVALUATED. THE RESULTING RETRACED SURVEY LINE REPRESENTS A BEST-FIT SOLUTION TO THE MEASURED ELEMENTS LISTED ABOVE.

MACKAY SPOSITO MEASURED TO ANGLE POINT TOWERS, ADDITIONAL ON-LINE TOWERS, RECOVERED ANGLE POINT AND CADASTRAL CORNERS. FIELD SEARCHES WERE MADE FOR P.O.T. MONUMENTS AND ANGLE POINT MONUMENTS AT LOCATIONS SHOWN ON BPA'S MILE MAPS. BPA ALUMINUM CAPS WERE FOUND AT ANGLE POINT TOWERS AS36(7/2), STATION 376+56.4 AND AS45(9/1), STATION 478+56.88.

BPA ALSO PROVIDED A STEEL TOWER SITE DATA LIST AND LIDAR POSITIONS OF TOWER CENTERS (CENTROIDS) FROM LIDAR FLIGHT SCAN DATA. THE ABOVE ITEMS AND OTHER DATA WERE CONSIDERED IN RESOLVING THE SURVEY ACQUISITION LINE.

SURVEY LINE RESOLUTION NOTES

BONNEVILLE-COULEE LINE

THE TANGENT BETWEEN STATIONS 478+56.88 AND 515+50.00 WAS RESOLVED BY HOLDING THE FOUND BPA MONUMENT AT RECORD OFFSET OF 0.7'RT FROM THE SURVEY LINE TO THE TOWER CENTER AT AS45(9/1) AND HOLDING THE RECORD OFFSET OF 1.9'LT FROM THE SURVEY LINE TO THE TOWER CENTER AT AS50(9/6). THE MEASURED DISTANCE IS 1.19 FEET SHORTER THAN RECORD. THE FOUND MONUMENT AT RECORD OFFSET OF 0.3'LT FROM THE SURVEY LINE TO THE TOWER CENTER AT AS36(7/2) WAS SURVEYED FOR A CHECK OF THE DEFLECTION ANGLE. THE MEASURED DEFLECTION ANGLE AT STATION 478+56.88 IS 15°45'07"RT THAT DIFFERS FROM THE RECORD ANGLE BY 00°00'23".

THE TANGENT BETWEEN STATIONS 515+50.00 AND 530+99.81BK(531+00.00AH) WAS RESOLVED BY HOLDING THE RECORD OFFSET OF 1.9'LT FROM THE SURVEY LINE TO THE TOWER CENTER AT AS50(9/6) AND HOLDING THE RECORD OFFSET OF 0.1'LT FROM THE SURVEY LINE TO THE TOWER CENTER AT AS51(10/1). THE MEASURED DISTANCE IS 1.62 FEET SHORTER THAN RECORD. THE MEASURED DEFLECTION ANGLE AT STATION 515+50.00 IS 03°42'27"RT THAT DIFFERS FROM THE RECORD BY 00°01'03".

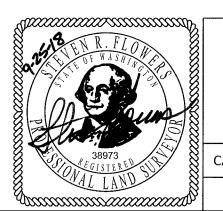
THE TANGENT BEWTEEN STATIONS 530+99.81BK(531+00.00AH) AND 547+71.92 WAS RESOLVED BY HOLDING THE RECORD OFFSET OF 0.1'LT FROM THE SURVEY LINE TO THE TOWER CENTER AT AS51(10/1) AND HOLDING THE RECORD OFFSET OF 0.4'LT FROM THE SURVEY LINE TO THE TOWER CENTER AT AS53(10/3). THE MEASURED DISTANCE IS 0.14 FEET LONGER THAN RECORD. THE MEASURED DEFLECTION ANGLE AT STATION 530+99.81BK(531+00.00AH) IS 00°12'29"RT THAT DIFFERS FROM RECORD BY 00°00'16".

THE TANGENT BETWEEN STATIONS 547+71.92 AND 576+00.00 WAS RESOLVED BY HOLDING THE RECORD OFFSET OF 0.4'LT FROM THE SURVEY LINE TO THE TOWER CENTER AT AS53(10/3) AND HOLDING THE RECORD OFFSET OF 1.3'LT FROM THE SURVEY LINE TO THE TOWER CENTER AT AS56(10/6). THE MEASURED DISTANCE IS 0.25 FEET SHORTER THAN RECORD. THE MEASURED DEFLECTION ANGLE AT STATION 547+71.92 00°35'54"RT THAT DIFFERS FROM RECORD BY 00°00'06".

THE TOWER CENTER FOR AS57(11/1) WAS SURVEYED AND THE RECORD OFFSET OF 1.3'RT FROM THE SURVEY LINE TO THE TOWER CENTER WAS HELD FOR A CHECK OF THE DEFLECTION ANGLE. THE MEASURED DEFLECTION ANGLE AT STATION 576+00.00 IS 27°45'06"LT THAT DIFFERS FROM RECORD BY 00°00'14".

WIND RIVER ROAD

BPA CONVEYED RIGHT-OF-WAY RIGHTS TO SKAMANIA COUNTY FOR WIND RIVER ROAD (COUNTY ROAD NO. 2135) PER DOCUMENT RECORDED IN VOLUME 61 PAGE 307-8 ON OCTOBER 30, 1969. THE RIGHT-OF-WAY IS DESCRIBED AS BOUNDED ON THE WEST BY THE WEST LINE OF THE EAST ONE HALF OF THE NORTHEAST ONE QUARTER OF SECTION 29, TOWNSHIP 3 NORTH, RANGE 8 EAST, WILLIAMETTE MERIDAN AND BOUNDED ON THE EAST BY THE EXISTING COUNTY ROAD. ROAD CENTERLINE MONUMENTS WERE FOUND AND HELD TO RESOLVE THE CENTERLINE PER THE WIND RIVER ROAD COUNTY ROAD 2135 PLAN. THIS ALIGNMENT WAS THEN USED TO CALCULATE THE ORGINAL HIGHWAY 8-C CENTERLINE AND EASTERLY RIGHT-OF-WAY LINE.



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FILE: <u>17026-R-2-0</u>

R-2-0 SHEET 2 OF 7

JOB NO.: <u>17026</u>

FOR THE BONNEVILLE POWER ADMINISTRATION **BONNEVILLE-COULEE LINE RIGHT-OF-WAY MILES 9 THRU 11** AND STEVENSON TAP TO BONNEVILLE-ALCOA No. 1 & 2 **RIGHT-OF-WAY THRU MILE 9**

SURVEY LINE RESOLUTION NOTES (CONTINUED)

STEVENSON TAP TO BONNEVILLE-ALCOA NO. 1 & 2 MOST OF THE TRANSMISSION LINE WITHIN THE PROJECT LIMITS HAS BEEN REMOVED. THERE IS ONE REMAINING TOWER AT STATION 511+77.0. THE REMAINING TRANSMISSION LINE EXTENDS SOUTHEASTERLY FROM THIS TOWER, WHICH IS BEYOND THE PROJECT AREA. BPA HAS REQUESTED THAT PART OF THE EASEMENT RIGHT-OF-WAY WITHIN THE PROJECT AREA FROM APPROXIMATE STATION 477+06.0 TO 512+22.0 BE RESOLVED. A SEARCH FOR MONUMENTS AT THE COMPUTED ANGLE POINTS AND ANY OTHER REMAINING EVIDENCE WAS PERFORMED. THE ONLY REMAING EVIDENCE IS ABOVE SAID TOWER AND LINE.

A COMBINATION OF THE REMAINING PORTION OF THE TRANSMISSION LINE, RECORD EASEMENT DOCUMENTS, STATIONS, DISTANCES, DEFLECTION ANGLES, MILE MAPS AND THE RESOLVED SURVEY LINE FOR BONNEVILLE-COULEE TRANSMISSION LINE WERE UTILIZED AS THE BEST EVIDENCE TO RESOLVE AND LOCATE THE NORTHERLY RIGHT-OF-WAY LINE FOR THE STEVENSON TAP TO BONNEVILLE-ALCOA NO. 1 & 2 TRANSMISSION LINE.

B.P.A. MAPPING CADASTRAL TIES

NOTE: THE PURPOSE OF THE CADASTRAL TIES IS TO CONFIRM THE LOCATION OF THE RESOLVED SURVEY LINE.

W1/4 CORNER SECTION 29, T.3N., R.8E. MEASURED STATIONING AT THE WEST LINE OF SECTION 29 IS 481+88.76. RECORD IS 481+88.88 FOR A DIFFERENCE OF 0.12'. MEASURED DISTANCE FROM SURVEY LINE IS 1069.13'. RECORD IS 1070.27' FOR A DIFFERENCE OF 1.14'. BPA SET AN IRON PIPE FOR THIS CORNER. FOUND A 2" IRON PIPE AT CORNER AND THE POSITION COMPARES WELL WITH BPA RECORD.

N1/4 CORNER SECTION 29, T.3N., R.8E. MEASURED STATIONING AT THE NORTH-SOUTH CENTER OF SECTION LINE IS 508+03.40. RECORD IS 508+10.20 FOR A DIFFERENCE OF 6.8'. MEASURED DISTANCE FROM SURVEY LINE IS 1351.02'. RECORD IS 1350.86' FOR A DIFFERENCE OF 0.16'. BPA FOUND A U.S.E.D. MONUMENT. THE MONUMENT FOUND IS AN ARMY CORPS OF ENGINEERS CAP ALSO STAMPED "BONNEVILLE POWER NAVIG. PROJECT" AND APPEARS TO BE THE SAME MONUMENT SHOWN ON BPA MAPPING.

NE CORNER SECTION 29, T.3N., R.8E. MEASURED STATIONING AT THE EAST LINE OF SECTION 29 IS 534+86. RECORD IS 534+85.96 FOR A DIFFERENCE OF 0.38', MEASURED DISTANCE FROM SURVEY LINE IS 1255.53' RECORD IS 1254.81' FOR A DIFFERENCE OF 0.72'. BPA FOUND A STONE UNDER PIPE IN HIGHWAY. THE MONUMENT FOUND IS A SKAMAINA COUNTY 1-1/2" ALUMINUM CAP. THE RE-MONUMENTED POSITION OF THE CORNER COMPARES FAVORABLY WITH BPA MAPPING.

E1/4 CORNER SECTION 29, T.3N., R.8E. - MEASURED STATIONING AT THE EAST LINE OF SECTION 29 IS 534+86.34. RECORD IS 534+85.96 FOR A DIFFERENCE OF 0.38'. MEASURED DISTANCE FROM SURVEY LINE IS 1437.51'. RECORD IS 1437.80 FOR A DIFFERENCE OF 0.29'. BPA FOUND A U.S.E.D. MONUMENT. THE MONUMENT FOUND IS AN ARMY CORPS OF ENGINEERS CAP ALSO STAMPED "BONNEVILLE POWER NAVIG. PROJECT" AND APPEARS TO BE THE SAME MONUMENT SHOWN ON BPA MAPPING.

N1/4 CORNER SECTION 28, T.3N., R.8E., - MEASURED STATIONING AT THE NORTH-SOUTH CENTER OF SECTION LINE IS 561+67.52. RECORD IS 561+76.97 FOR A DIFFERENCE OF 9.45'. MEASURED DISTANCE FROM SURVEY LINE IS 1224.71'. RECORD IS 1225.39' FOR A DIFFERENCE OF 0.68'. BPA FOUND A U.S.E.D. MONUMENT. THE MONUMENT FOUND IS A SKAMANIA COUNTY 3" BRASS CAP. THE RE-MONUMENTED POSITION OF THE CORNER COMPARES FAVORABLY FOR DISTANCE FROM THE SURVEY LINE AS SHOWN ON BPA MAPPING.

E1/4 CORNER SECTION 28, T.3N., R.8E., - MEASURED STATIONING AT THE EAST LINE OF SECTION 28 IS 589+78.34. RECORD IS 590+23.46 FOR A DIFFERENCE OF 45.12'. MEASURED DISTANCE FROM SURVEY LINE IS 2094.79. RECORD IS 2116.38' FOR A DIFFERENCE OF 21.59'. BPA FOUND A U.S.E.D. MONUMENT. THE MONUMENT FOUND IS AN ARMY CORPS OF ENGINEERS CAP ALSO STAMPED "BONNEVILLE POWER NAVIG. PROJECT" AND APPEARS TO BE THE SAME MONUMENT SHOWN ON BPA MAPPING. THE CURRENT SURVEYED POSTION FOR THIS CORNER DOES NOT COMPARE WELL WITH BPA MAPPING.

BONNEVILLE-COULEE LINE

| | B.P.A. MAP SERIAL NO. | B.P.A. TRACT ID | RECORDING DATE | FEE NUMBER |
|---|--------------------------|--------------------|--|-----------------------|
| | 1179-1180 | BC-43 | 2/11/1941 | TAKING - CIVIL NO. 34 |
| | 1180 | BC-44 | 10/21/1940 | TAKING - CIVIL NO. 34 |
| | 1180 | BC-45ee | 5/29/1940 | TAKING - CIVIL NO. 34 |
| | 1180 | BC-46 | 10/29/1940 | TAKING - CIVIL NO. 34 |
| | 1180 | BC-47 | 6/11/1940 | TAKING - CIVIL NO. 34 |
| | 1180 | BC-48cc | 5/29/1940 | TAKING - CIVIL NO. 34 |
| | 1180 | BC- 4 9 | 2/6/1940 | TAKING - CIVIL NO. 34 |
| | 1180 | BC-50 | 9/11/1939 | TAKING - CIVIL NO. 34 |
| | 1180-1181 | BC-51 | 11/22/1940 | TAKING - CIVIL NO. 34 |
| | 1180-1181 | BC-52 | 12/27/1939 | TAKING - CIVIL NO. 34 |
| | 1180-1181 | BC-53 | BC-49 2/6/1940 TAKING BC-50 9/11/1939 TAKING BC-51 11/22/1940 TAKING BC-52 12/27/1939 TAKING BC-53 12/2/1939 TAKING BC-54 2/6/1940 TAKING BC-2000 10/29/1940 TAKING BC-55 12/2/1939 TAKING | TAKING - CIVIL NO. 34 |
| | 1180-1181 | BC-54 | 2/6/1940 | TAKING - CIVIL NO. 34 |
| | 1180-1181 | BC-2000 | 10/29/1940 | TAKING - CIVIL NO. 34 |
| | 1181 | BC-55 | 12/2/1939 | TAKING - CIVIL NO. 34 |
| | 1181 | BC-56 | 6/26/1940 | TAKING - CIVIL NO. 34 |
| d | 1181 | BC-57 | 3/27/1940 | TAKING - CIVIL NO. 34 |
| | 1181 | BC-58dd | 11/22/1939 | TAKING - CIVIL NO. 34 |
| | 1181 | BC-59hh | 4/18/1940 | TAKING - CIVIL NO. 34 |
| | 1181 | BC-60dd_ | 12/2/1939 | TAKING - CIVIL NO. 34 |
| | 1181-1182 | BC-61hh | 3/5/1940 | TAKING - CIVIL NO. 34 |

STEVENSON TAP TO BONNEVILLE-ALCOA NO 1 & 2

| 4 | B.P.A. MAP SERIAL NO. | B.P.A. TRACT ID | RECORDING DATE | RECORDING NUMBER |
|---|--------------------------|--------------------|-------------------|------------------|
| | 125908- 125909 | ST-38/ST-39 | 3/13/1964 | BOOK 52 PAGE 358 |
| | 125909 | ST-40 | 5/31/1963 | BOOK 51 PAGE 329 |
| L | 125909 | ST-41 | 6/27/1963 | BOOK 51 PAGE 379 |
| | 125909 | ST-41A | 6/27/1963 | BOOK 51 PAGE 382 |

SURVEY REFERENCES

- (1) B.P.A. PLAT MAP SERIAL NO. 2994
- (2) BK1 PG61
- (3) BK3 PG142
- (4) BKB PG90 OF PLATS
- (5) AFN 2017001432 (6) AFN 2017001403
- (7) BK3 PG254 OF SHORT PLATS
- (8) A.F.N. 2015002316
- (9) BK3 PG377 OF SHORT PLATS
- (10) A.F.N. 2006164193

- (11) BK3 PG369 OF SHORT PLATS
- (12) BK3 PG259 OF SHORT PLATS
- (13) A.F.N. 2004154874
- (14) B.P.A. PLAT MAP SERIAL NO. 2995
- (15) BK3 PG196 OF SHORT PLATS
- (16) BK1 PG60
- (17) LCR AFN 10117
- (18) LCR AFN 78337
- (19) BK 3 PG 205

B.P.A. PLAT MAP SERIAL NUMBERS 2994, 2995

B.P.A. MILE MAP SERIAL NUMBERS 1180, 1181, 1182, 125909



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FILE: 17026-R-3-0

SHEET 3 OF 7

FOR THE BONNEVILLE POWER ADMINISTRATION **BONNEVILLE-COULEE LINE RIGHT-OF-WAY MILES 9 THRU 11** AND STEVENSON TAP TO BONNEVILLE-ALCOA No. 1 & 2 RIGHT-OF-WAY THRU MILE 9

IN THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 AND THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 30, THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4. THE NORTHWEST 1/4 OF THE NORTHWEST 1/4, THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4, AND THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 29. ALL IN T3N, R8E, W.M.; SKAMANIA COUNTY, WASHINGTON

SURVEY LINE MONUMENT TABLE

| POINT ID | GRID NORTHING | GRID EASTING | MONUMENT DESCRIPTION | STATION | OFFSET |
|-----------|------------------|-----------------|---|-----------|--------|
| BC-A00902 | 144423.66 | 1298882.67 | 3-1/4" B.P.A. AC W/PUNCH "BC-A00902 LS38973 MSI 18" | 478+56.88 | 0.00 |
| BC-P00903 | 144451.37 | 1299250.32 | 3-1/4" B.P.A. AC W/PUNCH "BC-P00903 LS38973 MSI 18" | 482+25.6 | 0.00 |
| BC-P00904 | 144481.39 | 1299647.66 | 3-1/4" B.P.A. AC W/PUNCH "BC-P00904 LS38973 MSI 18" | 486+24.1 | 0.00 |
| BC-P00905 | 144500.18 | 1299896.05 | 3-1/4" B.P.A. AC W/PUNCH "BC-P00905 LS38973 MSI 18" | 488+73.2 | 0.00 |
| BC-P00906 | 144543.17 | 1300464.52 | 3-1/4" B.P.A. AC W/PUNCH "BC-P00906 LS38973 MSI 18" | 494+43.2 | 0.00 |
| BC-P00907 | 144573.06 | 1300859.75 | 3-1/4" B.P.A. AC W/PUNCH "BC-P00907 LS38973 MSI 18" | 498+39.6 | 0.00 |

GRID NORTH

COMBINED SCALE FACTOR: 1.00000219

1 INCH = 200 FEET

0 100 200

LEGEND

 $XXX \cdot XX$

- STATION AHEAD
- STATION BACK
- L.C.R. LAND CORNER RECORD
- B.P.A. BONNEVILLE POWER ADMINISTRATION
- U.S.D.O.E. UNITED STATES DEPTARTMENT OF ENERGY
- A.F.N. AUDITOR'S FILE NUMBER
 - B.P.A. TOWER SERIAL NUMBER
 - B.P.A. OPERATING TOWER NUMBERS

TRANSMISSION LINE MILE MARKER

WITH STATION PER B.P.A. MILE MAPS

- CONTROL MONUMENT AS NOTED FOUND MONUMENT AS NOTED
- SET 3-1/4" ALUMINUM CAP ON 5/8" IRON ROD.
- FOUND MONUMENT AT TOWER

B.P.A. ROTATED STEEL TOWER

ACQUISITION SURVEY LINE B.P.A. TRANSMISSION LINE RIGHT-OF-WAY (FEE) B.P.A. TRANSMISSION LINE RIGHT-OF-WAY (EASEMENT)

SECTION LINE

QUARTER SECTION LINE

SIXTEENTH SECTION LINE

SURVEY REFERENCES

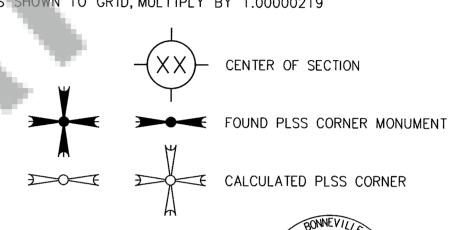
REFERENCE B.P.A. PLAT MAP 2994 REFERENCE B.P.A. MILE MAP 1180

(1) B.P.A. PLAT MAP SERIAL NO. 2994

(2) BK1 PG61

BASIS OF BEARINGS

BEARINGS AND COORDINATES SHOWN ARE GRID, BASED ON THE WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (4602), NAD83(2011)(EPOCH:2010.0). US SURVEY FOOT. DISTANCES SHOWN HEREON ARE GROUND DISTANCES, TO CONVERT DISTANCES SHOWN TO GRID, MULTIPLY BY 1.00000219





1325 SE TECH CENTER DRIVE, SUITE 140

VANCOUVER, WA 98683

VANCOUVER: (360) 695-3411

PORTLAND: (503) 289-6726

FAX (360) 695-0833

JOB NO.: <u>17026</u>

SHEET 4 OF 7

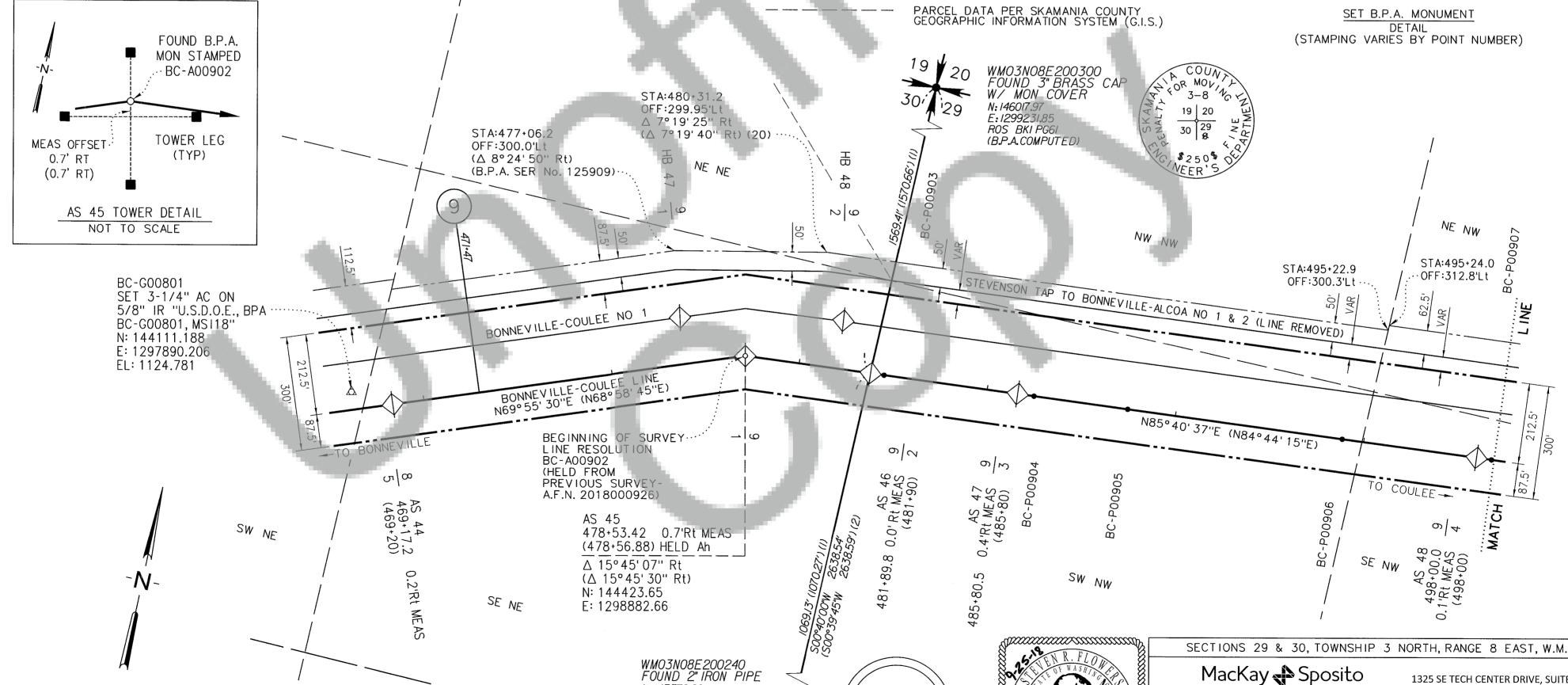
ENERGY PUBLIC WORKS LAND DEVELOPMENT

www.mackaysposito.com

SER NO 335973-C

CALC BY: <u>SRF</u> CHECKED BY: <u>SRF</u> DRAWN BY: <u>AJS</u>

FILE: <u>17026-R-4-0</u>



N: 143379.60

E:1299201.15

ROS BKI PG61

(B.P.A.IRON PIPE)

MEAS OFFSET

0.1'LT

(0.1' LT)

AS 51 TOWER DETAIL

NOT TO SCALE

RECORD OF SURVEY

FOR THE BONNEVILLE POWER ADMINISTRATION **BONNEVILLE-COULEE LINE RIGHT-OF-WAY MILES 9 THRU 11** AND STEVENSON TAP TO BONNEVILLE-ALCOA No. 1 & 2 RIGHT-OF-WAY THRU MILE 9

IN THE THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4, THE NORTHEAST 1/4 OF THE NORTHWEST 1/4, THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4, THE NORTHWEST 1/4 OF THE NORTHEAST 1/4, THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4, AND THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 29, T3N, R8E, W.M.; SKAMANIA COUNTY, WASHINGTON

SURVEY LINE MONUMENT TABLE

| POINT ID | GRID NORTHING | GRID EASTING | MONUMENT DESCRIPTION | STATION | OFFSET |
|-----------|------------------|-----------------|---|-----------|--------|
| BC-P00908 | 144590.46 | 1301089.95 | 3-1/4" B.P.A. AC W/PUNCH "BC-P00908 LS38973 MSI 18" | 500+70.5 | 0.00 |
| BC-P00909 | 144657.66 | 1301978.83 | 3-1/4" B.P.A. AC W/PUNCH "BC-P00909 LS38973 MSI 18" | 509+61.9 | 0.00 |
| BC-P00910 | 144666.38 | 1302094.23 | 3-1/4" B.P.A. AC W/PUNCH "BC-P00910 LS38973 MSI 18" | 510+77.6 | 0.00 |
| BC-A00911 | 144701.89 | 1302564.14 | 3-1/4" B.P.A. AC W/PUNCH "BC-A00911 LS38973 MSI 18" | 515+50.00 | 0.00 |
| BC-P00912 | 144707.15 | 1303046.99 | 3-1/4" B.P.A. AC W/PUNCH "BC-P00912 LS38973 MSI 18" | 520+32.9 | 0.00 |
| BC-P00913 | 144709.28 | 1303247.98 | 3-1/4" B.P.A. AC W/PUNCH "BC-P00913 LS38973 MSI 18" | 522+33.9 | 0.00 |
| BC-P00914 | 144710.47 | 1303355.45 | 3-1/4" B.P.A. AC W/PUNCH "BC-P00914 LS38973 MSI 18" | 523+41.4 | 0.00 |
| BC-P01001 | 144715.95 | 1303867.68 | 3-1/4" B.P.A. AC W/PUNCH "BC-P01001 LS38973 MSI 18" | 528+53.7 | 0.00 |

E:1301797.37

ROS BKI PG61

& CENTED .

LEGEND

- STATION AHEAD
- STATION BACK LAND CORNER RECORD
- BONNEVILLE POWER ADMINISTRATION B.P.A. UNITED STATES DEPTARTMENT OF ENERGY U.S.D.O.E.
- AUDITOR'S FILE NUMBER
 - B.P.A. TOWER SERIAL NUMBER
 - B.P.A. OPERATING TOWER NUMBERS

XXX·XX TRANSMISSION LINE MILE MARKER WITH STATION PER B.P.A. MILE MAPS

- CONTROL MONUMENT AS NOTED
- FOUND MONUMENT AS NOTED
- SET 3-1/4" ALUMINUM CAP ON 5/8" IRON ROD.
 - FOUND MONUMENT AT TOWER
- B.P.A. ROTATED STEEL TOWER



B.P.A. TRANSMISSION LINE RIGHT-OF-WAY (FEE) B.P.A. TRANSMISSION LINE RIGHT-OF-WAY (EASEMENT)

SECTION LINE QUARTER SECTION LINE

SIXTEENTH SECTION LINE PARCEL DATA PER SKAMANIA COUNTY GEOGRAPHIC INFORMATION SYSTEM (G.I.S.)

SURVEY REFERENCES

REFERENCE B.P.A. PLAT MAP 2994 REFERENCE B.P.A. MILE MAP 1180 AND 1181

- (1) B.P.A. PLAT MAP SERIAL NO. 2994
- (2) BK1 PG61
- (3) BK3 PG142

- (4) BKB PG90 OF PLATS
- (5) AFN 2017001432
- (6) AFN 2017001403 (19) BK3 PG205

BASIS OF BEARINGS

BEARINGS AND COORDINATES SHOWN ARE GRID, BASED ON THE WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (4602), NAD83(2011)(EPOCH:2010.0), US SURVEY FOOT DISTANCES SHOWN HEREON ARE GROUND DISTANCES, TO CONVERT DISTANCES SHOWN TO GRID, MULTIPLY BY 1.00000219

MacKay Sposito

ENERGY PUBLIC WORKS LAND DEVELOPMENT

www.mackaysposito.com

SER NO 335973-C

CALC BY: SRF CHECKED BY: SRF DRAWN BY: AJS

FILE: <u>17026-R-4-0</u>

1325 SE TECH CENTER DRIVE, SUITE 140

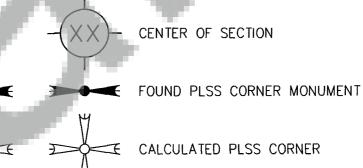
VANCOUVER, WA 98683

VANCOUVER: (360) 695-3411

PORTLAND: (503) 289-6726 FAX (360) 695-0833

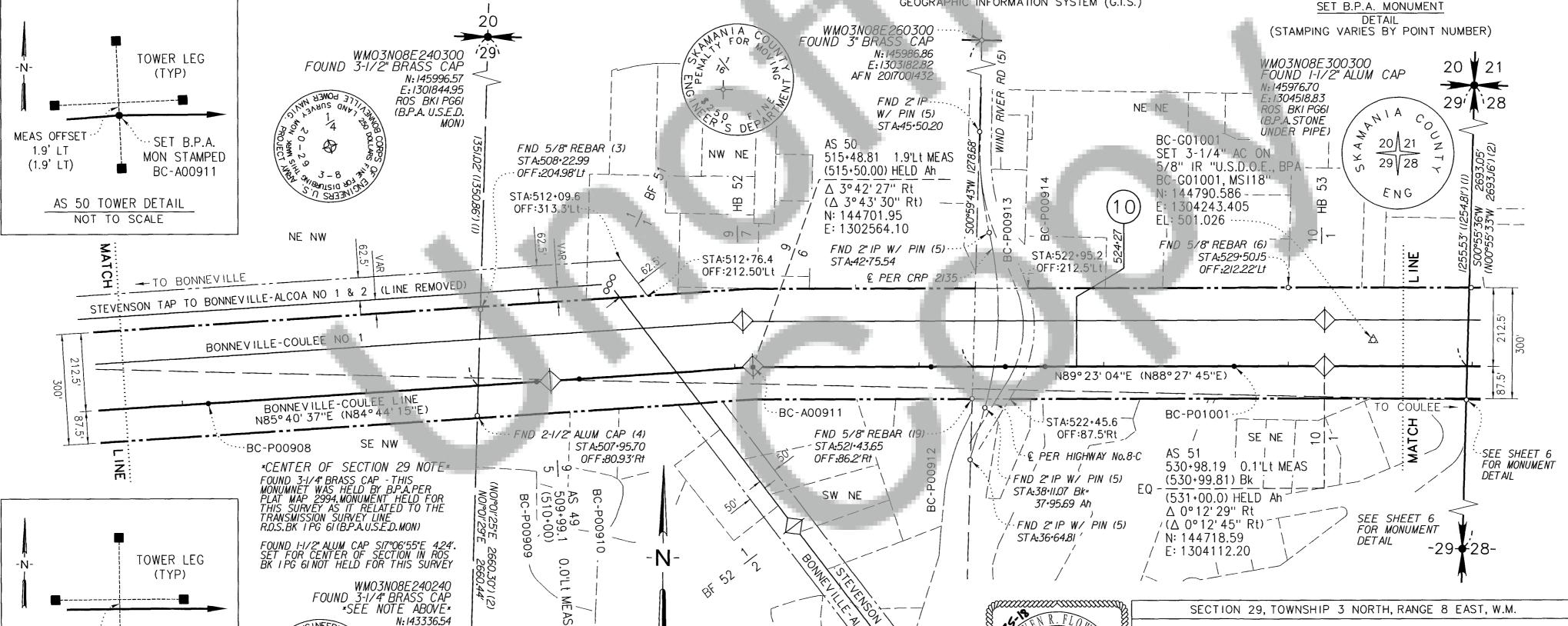
JOB NO.: <u>17026</u>

SHEET 5 OF 7





SET B.P.A. MONUMENT



400

GRID NORTH

0 100 200

COMBINED SCALE FACTOR: 1.00000219

1 INCH = 200 FEET

POINT ID

BC-P01002

BC-P01003

BC-A01004

BC-P01005

NORTHING

144720.43

144724.53

144730.47

144729.13

(B.P.A. U.S.E.D. MON)

EASTING

1304945.29

1305784.23

1306202.31

RECORD OF SURVEY

FOR THE BONNEVILLE POWER ADMINISTRATION BONNEVILLE-COULEE LINE RIGHT-OF-WAY MILES 9 THRU 11 AND STEVENSON TAP TO BONNEVILLE-ALCOA No. 1 & 2 **RIGHT-OF-WAY THRU MILE 9**

IN THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4, AND THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 29, THE NORTHWEST 1/4 OF THE NORTHWEST 1/4. THE NORTHEAST 1/4 OF THE NORTHWEST 1/4, THE NORTHWEST 1/4 OF THE NORTHEAST 1/4, SECTION 28, ALL IN T3N, R8E, W.M.; SKAMANIA COUNTY, WASHINGTON

SURVEY LINE MONUMENT TABLE

1304371.63 3-1/4" B.P.A. AC W/PUNCH "BC-P01002 LS38973 MSI 18"

MONUMENT

3-1/4" B.P.A. AC W/PUNCH "BC-P01003 LS38973 MSI 18"

3-1/4" B.P.A. AC W/PUNCH "BC-A01004 LS38973 MSI 18"

3-1/4" B.P.A. AC W/PUNCH "BC-P01005 LS38973 MSI 18"

DESCRIPTION

_EGEND

XXX+XX

STATION

533+59.4

539+33.1

547+71.92

551+90.0

0.00

0.00

0.00

0.00

- STATION AHEAD
- STATION BACK
- LAND CORNER RECORD L.C.R.
- BONNEVILLE POWER ADMINISTRATION B.P.A.
- UNITED STATES DEPTARTMENT OF ENERGY U.S.D.O.E.
- AUDITOR'S FILE NUMBER
- B.P.A. TOWER SERIAL NUMBER AS XX
 - B.P.A. OPERATING TOWER NUMBERS

TRANSMISSION LINE MILE MARKER

BASIS OF BEARINGS

SURVEY REFERENCES

REFERENCE B.P.A. PLAT MAP 2994

(1) B.P.A. PLAT MAP SERIAL NO. 2994

(7) BK3 PG254 OF SHORT PLATS

(9) BK3 PG377 OF SHORT PLATS

(8) A.F.N. 2015002316

(10) A.F.N. 2006164193

REFERENCE B.P.A. MILE MAP 1181

(2) BK1 PG61

(11) BK3 PG369 OF SHORT PLATS

(12) BK3 PG259 OF SHORT PLATS

(13) A.F.N. 2004154874

(14) B.P.A. PLAT MAP SERIAL NO. 2995

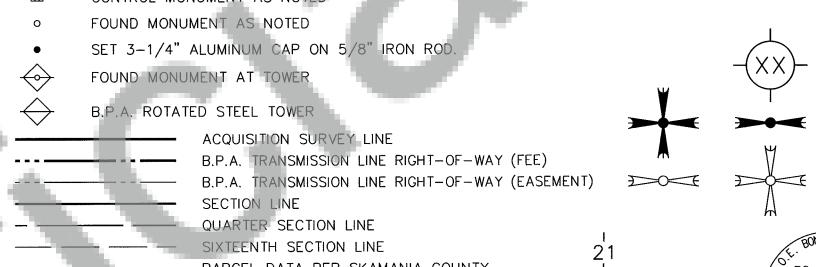
(15) BK3 PG196 OF SHORT PLATS

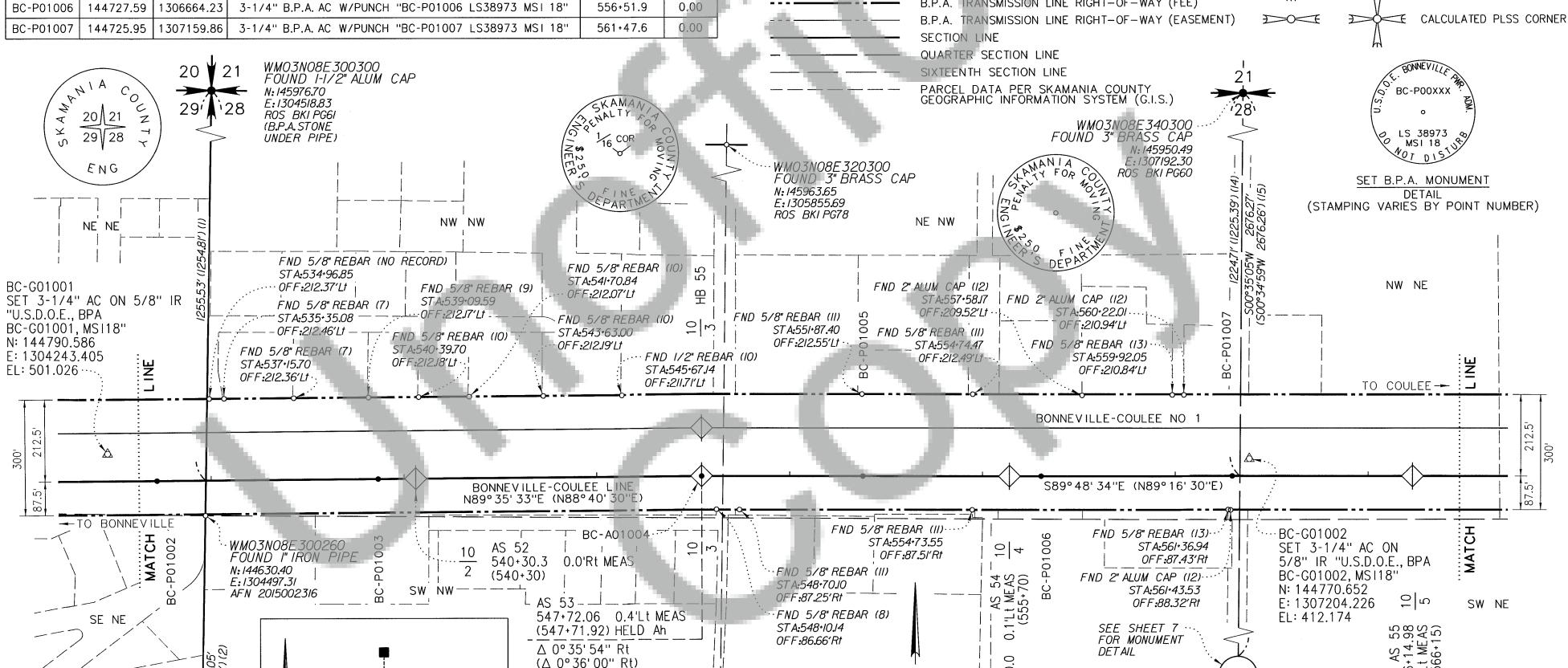
CENTER OF SECTION

FOUND PLSS CORNER MONUMENT

BEARINGS AND COORDINATES SHOWN ARE GRID, BASED ON THE WASHINGTON STATE

WITH STATION PER B.P.A. MILE MAPS PLANE COORDINATE SYSTEM, SOUTH ZONE (4602), NAD83(2011)(EPOCH:2010.0), US SURVEY FOOT DISTANCES SHOWN HEREON ARE GROUND DISTANCES, TO CONVERT DISTANCES SHOWN TO GRID, MULTIPLY BY 1.00000219 CONTROL MONUMENT AS NOTED





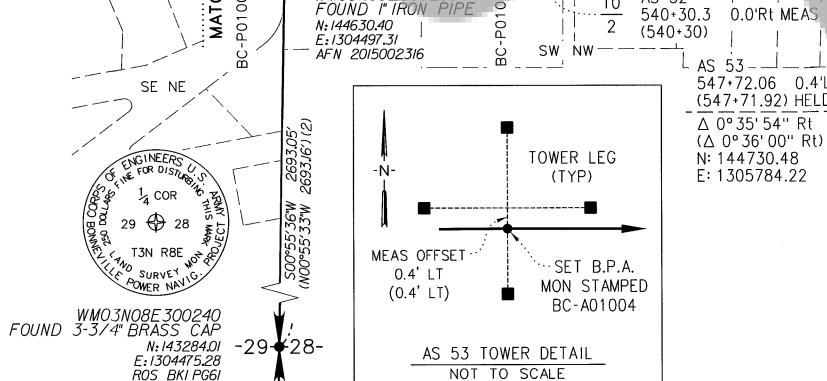
SE NW

GRID NORTH

0 100 200

COMBINED SCALE FACTOR: 1.00000219

1 INCH = 200 FEET



555+70. 400

SECTIONS 28 & 29, TOWNSHIP 3 NORTH, RANGE 8 EAST, W.M. MacKay 🎝 Sposito

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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

CALC BY: <u>SRF</u> CHECKED BY: <u>SRF</u>

DRAWN BY: AJS

JOB NO.: <u>17026</u>

SER NO 335973-C

FILE: <u>17026-R-4-0</u>

566 0.0'L (5(

SHEET 6 OF 7

FOR THE BONNEVILLE POWER ADMINISTRATION BONNEVILLE-COULEE LINE RIGHT-OF-WAY MILES 9 THRU 11 AND STEVENSON TAP TO BONNEVILLE-ALCOA No. 1 & 2 **RIGHT-OF-WAY THRU MILE 9**

IN THE NORTHWEST 1/4 OF THE NORTHEAST 1/4, AND GOVERNMENT LOT 6 OF SECTION 28, T3N, R8E, W.M.; SKAMANIA COUNTY, WASHINGTON

ILLE-COULEE NO 1

END OF SURVEY

LINE RESOLUTION .

575+99.75 1.3'Lt MEAS

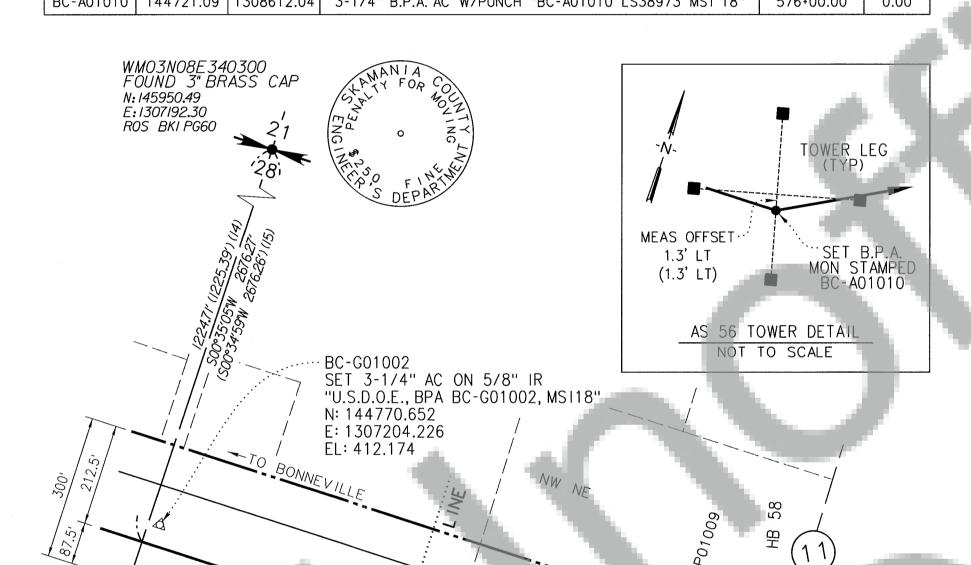
(576+00.00) HELD Ah

Δ 27°45'06" Lt

E: 1308612.04

(∆ 27°45′20″ Lt) N: 144721.07

| SURVEY LINE MONUMENT TABLE | | | | | | | |
|----------------------------|------------------|-----------------|---|-----------|--------|--|--|
| POINT ID | GRID NORTHING | GRID EASTING | MONUMENT DESCRIPTION | STATION | OFFSET | | |
| BC-P01008 | 144723.64 | 1307852.80 | 3-1/4" B.P.A. AC W/PUNCH "BC-P01008 LS38973 MSI 18" | 568+40.5 | 0.00 | | |
| BC-P01009 | 144722.09 | 1308312.35 | 3-1/4" B.P.A. AC W/PUNCH "BC-P01009 LS38973 MSI 18" | 573+00.1 | 0.00 | | |
| BC-A01010 | 144721.09 | 1308612.04 | 3-1/4" B.P.A. AC W/PUNCH "BC-A01010 LS38973 MSI 18" | 576+00.00 | 0.00 | | |



5/0

WM03N08E340240 FOUND 2-1/2" BRASS CAP

3N RO

S. 28

N: 143274.35

E:1307165.00 LCR AFN 101177

EGEND

 $XXX \cdot XX$

LOT

N62° 26' 21"E (N61° 31' 10"E)

1 INCH = 200 FEET

·BC-A01010

- STATION AHEAD
- STATION BACK
- **EQUATION STATION**
- LAND CORNER RECORD L.C.R.
- B.P.A. BONNEVILLE POWER ADMINISTRATION
- UNITED STATES DEPTARTMENT OF ENERGY U.S.D.O.E.
 - AUDITOR'S FILE NUMBER
 - B.P.A. TOWER SERIAL NUMBER AS XX
 - B.P.A. OPERATING TOWER NUMBERS

TRANSMISSION LINE MILE MARKER WITH STATION PER B.P.A. MILE MAPS

- CONTROL MONUMENT AS NOTED
- FOUND MONUMENT AS NOTED
- SET 3-1/4" ALUMINUM CAP ON 5/8" IRON ROD

FOUND MONUMENT AT TOWER

B.P.A. ROTATED STEEL TOWER

ACQUISITION SURVEY LINE B.P.A. TRANSMISSION LINE RIGHT-OF-WAY (FEE)

WMO3NO8E400300 FOUND 3-1/4" BRASS CAP WITNESS CORNER 56,1' WEST OF SEC COR

N: 145952.46

E:1309760.64 LCR AFN 78337

LOTZ

B.P.A. TRANSMISSION LINE RIGHT-OF-WAY (EASEMENT) SECTION LINE

QUARTER SECTION LINE

SIXTEENTH SECTION LINE PARCEL DATA PER SKAMANIA COUNTY GEOGRAPHIC INFORMATION SYSTEM (G.I.S.)

SURVEY REFERENCES

REFERENCE B.P.A. PLAT MAP 2995

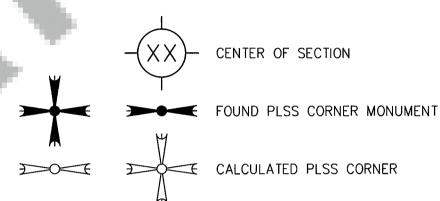
REFERENCE B.P.A. MILE MAP 1181 AND 1182 (14) B.P.A. PLAT MAP SERIAL NO. 2995

(15) BK3 PG196 OF SHORT PLATS

(16) BK1 PG60

BASIS OF BEARINGS

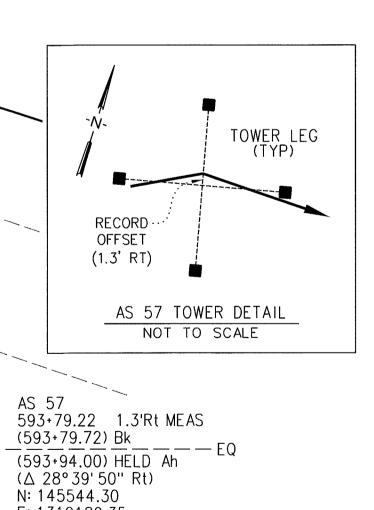
BEARINGS AND COORDINATES SHOWN ARE GRID, BASED ON THE WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (4602), NAD83(2011)(EPOCH:2010.0), US SURVEY FOOT. DISTANCES SHOWN HEREON ARE GROUND DISTANCES, TO CONVERT DISTANCES SHOWN TO GRID, MULTIPLY BY 1.00000219





SET B.P.A. MONUMENT

DETAIL
(STAMPING VARIES BY POINT NUMBER)



COR 28 0 27 27 27 E: 1310189.35 WM03N08E400240 FOUND 3-3/4" BRASS CAP N: 143264.91 E:1309894.76 ROS BKI PG60

OF HE FOR DISTU



1325 SE TECH CENTER DRIVE, SUITE 140 VANCOUVER, WA 98683 VANCOUVER: (360) 695-3411 PORTLAND: (503) 289-6726 FAX (360) 695-0833

CALC BY: SRF CHECKED BY: SRF DRAWN BY: AJS JOB NO.: _____17026 SER NO 335973-C

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PUCP

GRID NORTH COMBINED SCALE FACTOR: 1.00000219 0 100 200

FILE: 17026-R-4-0

SHEET 7 OF 7