SECS 9 & 4 T5N R28E WM
UMATILLA COUNTY, OREGON
BENTON COUNTY, WASHINGTON

TWR 6
88+41.0 Bk=
105+75.4 Ah
Δ10°17'30" Lt
Y 217 284.9
X 2 300 368.6

TWR 7A
114+50.0
Δ1°36'30" Lt
Y 217 315.3
X 2 301 115.9
(Mc-P POT)

TWR 8B
131+57

TWR 9B BENTON R E A AIRWAY LTG SERV RELOCATION CONTACT
151+20

TWR 10D
165+00.0
Δ6°13' Lt
S 220 560.6
E 126 355.8
Δ 3°44' Rt (Mc-P)

TWR 10B
166+64 BENTON CO PUD TAP 115 KV 3W

TWR 11
169+92.6 Ah=
262+34.2 Ah
Δ13°08'00" Rt (Mc-R)
POT (Mc-BE)

TWR 12
187+90.9 Ah=
267+85.7 Bk=
Δ 76°55'40" Lt

TWR 13
208+96.3
Δ 90°01'40" Lt

TWR 14
174+97.4
Δ 78°13' Rt

N16°50'10"W
N20°04'07"W
N23°52'W
N17°39'W

EQUATION OF BEARINGS
N16°26'40"W Bk = N17°39'W Ah

McNARY-PASCO 115KV
McNARY-BIG EDDY 287KV N16°26'40"W
McNARY-ROSS 345KV N16°26'40"W

OPER AS McNARY-BADGER CANYON NO 1

WASHINGTON
BENTON COUNTY
UMATILLA COUNTY
OREGON

TO McNARY
TO FRANKLIN
TO BADGER CANYON
TO BIG EDDY
TO ROSS
TO CURVE
LINE TO W

12-4470 S UMATILLA CO RD
123+64 2W TLP LINE
123+64 E UMATILLA CO RD
123+64 TLP LINE 2W

PP&L 66KV LINE
151+68.9 PP&L PWR LINE 66KV 3W
BPA OWNED WIRES
BPA 166+30.8 RR 5721+54.9
165+64.1 R/W
165+90.2 & SP&S R/W
167+27.9 PW TLG
167+67.7 R/W
Mc-F2 171+19.9
Mc-BE 169+67.6
Mc-F2 172+47.0
Mc-R 374+18.3
170+77.4 Δ6°13' Rt
170+77.4 Ah=
170+75.2 Bk=
Δ3°44' Lt
165+50
169+92.6 Ah=
169+37.3 Bk=
Δ13°08'00" Rt
POT (Mc-BE)
262+82.5 PT M.W.R.W
267+85.7 Bk=
Δ 76°55'40" Lt
169+37.3 Bk=
Δ 13°08'00" Rt
POT (Mc-BE)
M-BE-2-AR-1
M-MS-MS

LOT 1
LOT 2
LOT 3
LOT 4

1/2" IPA CEDAR STAKE
S 220 631.7
E 125 725.8

M.C.
1/2" IP & CEDAR STAKE
S 220 631.7
E 127 046.4

BENTON R E A
CONTRACT NO 72816
AIRWAY LIGHTING SERVICE RELOCATION
STA 151+20

COLUMBIA RIVER

ACQUISITION STA 118+73.0 Bk
MADE ON DRWG SER 33024 (PAPER)
ACQUISITION STA 118+73.0 Ah
MADE ON DRWG SER 31302 (Mc-P)

(CONST UNDER W.O. 123-01 Mc-P)
DOUBLE CIRCUIT 230 KV CONSTRUCTION
MALLARD 795 MCM ACSR MWT 14500
GROUND WIRE 5/8" HS MWT 10500
Rt CIRCUIT Mc-P 115KV ENER)

(CONST UNDER W.O. 465-01 Mc-BE)
ACSR "PHEASANT"
MWT 8000 at 1/2" ICE

ACSR "PHEASANT"
MWT 12750 at 1/2" ICE
GRD WIRE 5/8" HS MWT 10500

EXISTING TOWER
STEEL SUSPENSION TOWER
SEE DRWG SER 30900

EXISTING TOWER
STEEL DEAD END TOWER
3-DE ASSEMBLIES TYPE B
SEE DRWG SER 30900
GRD WIRE DETAIL 2FF
END GROUND WIRE L1 GR

EQUATION
88+41.0 Bk
105+75.4 Ah
Δ10°17' 0" Lt

874.6'
1707'
1963'
1380'
437.3'

114+50.0
Δ1°36'30" Lt

EL 315'
EL TOP OF FTG 294.0'
EL 301.6'
EL 290.1'
EL TOP OF FTG 283.0'
EL 341.7'
EL 346.1'
EL TOP OF FTG 338.0'
EL TOP OF FTG 314.0'

110+00 PP&L 12.5 KV Pwr Line 4 Wire W/UEC 12.5 KV UB-2 Wire
122+68 E Prt Rd
123+64 Tlp Line 2W
124+70.5 E Umatilla Co Rd
126+05.0 E Old Channel
126+99 E Umatilla Co Rd
128+35 Tlp Line 2W
129+35 Edge of Pit
Borrow Pit
131+57 Edge of Pit
136+21 Waters Edge
148+85 W E & Rock Berm
151+20 Benton R E A Airway Ltg Serv Reloc Contact
157+74.0 E Rd (Old SP&S Ry Grade)
159+35 Tlp Line 2W
165+00.0
165+90.2 E SP&S Ry
169+37.3 Bk=
169+92.6 Ah
46°13' Rt
169+92.6 Ah=
169+37.3 Bk=
46°13' Rt
169+69.9 PP&L Pwr Line 66KV 3W

TOWER DESIGNATION
MCNY FRAN
2-2-4

TC 9
TC 10
TC 11
TC 12

High Water El 278.0'
Water El Dec 13, 1945 = 250.5'

GRID
TRUE
0°51'0"
WASHINGTON GRID – SOUTH ZONE
FACTOR 1.0000000

HORIZONTAL SCALE 1" = 200'
VERTICAL SCALE 1" = 20'

450
400
350
300
250

110 120 130 140 150 160

The conductor curve shown is that used for determining tower locations.
Datum USC&GS Cond AS NOTED ABOVE

NO	REVISION	DATE	APPROVED
10	110+00 PP&L PWR LINE 4-WIRE ADDED	A.H.K. 10-31-55	
9	169+92.6 Ah = 169+37.3 Bk = 46°13' RT ADDED		
8	MC-BE-2-AR-1 ADDED		
7	ANGLE CHANGED TWR 6		
6	Mc-P - PASCO OPER 115 CKT Mc-R - OLD SPRR SPUR ADD		
5	SERIAL NO'S ADDED		
4	169+29 CONST NO CROSS ARMS		
3	X-ING STA 165+64 ADDED		
2	SEC-F2 — SEC-BE X-ING STA ARMSES		

INSULATORS M & E — LBS

ACQ SER 33024-31302
W.O. 123-01 & 465-01
CONST SER 30900

BONNEVILLE POWER ADMINISTRATION
UNITED STATES DEPARTMENT OF THE INTERIOR

McNARY-FRANKLIN NO 2
230 KV TRANSMISSION LINE
MILE 2 FROM McNARY

RIGHT OF WAY — DIVISION
Drawn
Traced
Checked
Approved
DATE 10-31-55
SHEET 2 OF 29
Dwg. No. 89702
136-16-D

0897020, 92, 136-15, 002, SC2758300200S, XMN PLAN PRO 2 MCNS-FRAN