

01.01.02

Peninsular
CROSS SECTION BOOK
CB 802

GLENN Hwy
MP 68 - 84

01.01.02 GLENN HWY: MP 68 to 92

01-01-02

INDEX

DESCRIPTION	PAGE
NOTE ON MILEPOSTS	2
BM'S RECOVERED	3
DIST. BETWEEN GPS PAIRS	4
TRIG LEVELS TO SOME GPS POINTS	5-9
BRIDGE POINT STAKE-OUT	10
BM'S RESET	11-16
TBMS SET	17-20
BM'S RECOVERED (CONTINUED)	21
GPS R.P.'S IN GLENN HWY GPS BOOK	

THERE IS A .4 mile DIST between
MP 68 & MP 71

GH 70.3 WAS MEASURED FROM MP 68

GH 70.7 WAS MEASURED BACK FROM MP 71

(3)

BM's Recovered

THE FOLLOWING BM'S WERE RECOVERED
BETWEEN KING RIVER AND LONG LAKE
DURING JUNE 2001, BY WILLIAMS & BURKHOLDER

Z87	ON KING RIVER BRIDGE
C93	2.9m NORTH OF K.R.
R21	7.8m SOUTH OF CHICKALDON RIVER BRIDGE
D93	6.4m SOUTH OF " " "
E93	5.7m SOUTH OF " " "
W21	0.9m SOUTH OF " " "
G93	ON CHICKALDON RIVER BRIDGE
LOON AZ	1.3m NORTH OF CHICK RIVER
J93	2.3m NORTH OF " "
A22	3.5m NORTH OF " "
B22	4.7m NORTH OF " "
K93	5.6m NORTH OF " "
D22	6.6m NORTH OF " "
E22	7.5m NORTH OF " "

THE FOLLOWING BM'S WERE RECOVERED OR RESET BETWEEN
KING RIVER AND PURITON CREEK DURING

SEPT. 2002	BY BURKHOLDER AND KANE
A93 RESET	0.8 M N. OF KING RIVER
R93 RESET	1.8 M N. OF KING RIVER
F93 RESET	1.8 M S. OF CHICKALDON RIVER
U21	3.0 M S. OF CHICKALDON RIVER
T21	4.0 M S. OF CHICKALDON RIVER
PACK RESET	5.0 M S. OF CHICKALDON RIVER

(CONTINUED PG 21 THIS BOOK)

(3)

PICTURES OF THESE BM'S MAY BE VIEWED
FROM SIMATSU/glenn-68-84-54984/PICTURES

④ π/BS FS ZRT DIST

GH65.9

GH66.9

M 1213.892 ✓

F 3989.14

GH84.1

GH83.7

M 646.254 ✓

F 2120.25

GH87.1

GH85.3

M 2651.813 ✓

F 8700.17

DISTANCES BETWEEN GPS PAIRS ④

JUNE 15, 2001

WILLIAMS
BURKHOLDER

PPM = +10

T 2002

JUNE 16, 2001

PPM = +15

T 2002

⑤ TI/BS FS AE EL

TI			
[BM E-22]		[+2.699]	
TI	GH85.3	-0.990	436.142m
[GH85.3]		[-1.032]	
	BM E 22	+2.658	459.832
			
[BM K-93]		[-0.833]	
	GH83.2	-4.982	517.363m
[GH83.2]		[-4.916]	
	BM K 93	-0.767	521.512

RM EL TRIG LEVELS TO SELECT GPS POINTS

⑤

JUNE 19, 2001
SAME CREW
T 2002

459.831m BRASS MON IN CONC. NAVD 88 (NGS)

5/8" RBR / 2" AC

+0.001m

521.512m BRASS MON ON ROD NAVD 88 (NGS)

5/8" RBR / 2" AC

0.000m

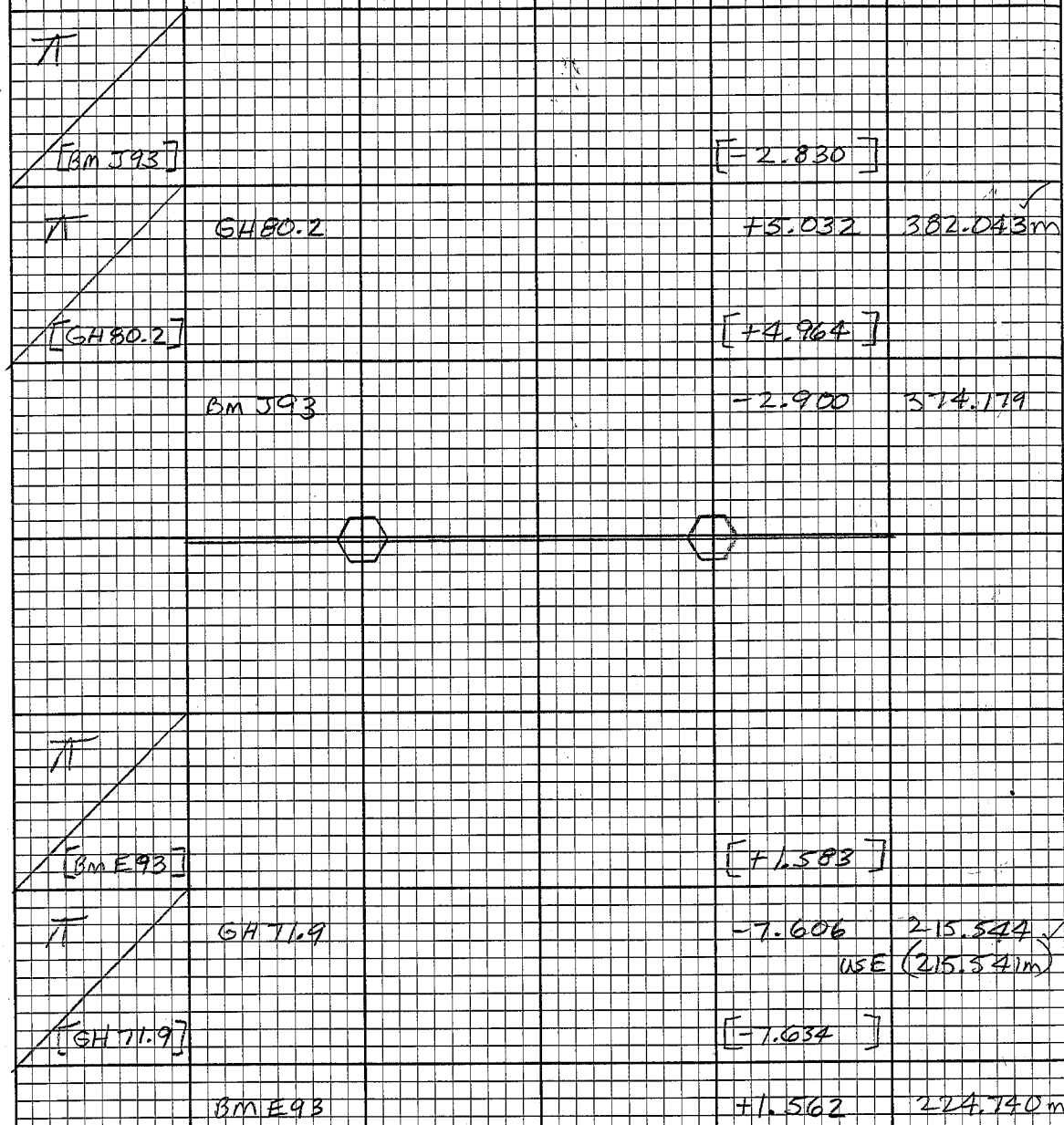
⑥ T/BS		FS	ΔE	EL
TI				
[Bm G43]			[+5.163]	
TI	TP1		+0.120	
[TP1]			[+0.895]	
TI	GH 17.7		+0.948	257.762m ✓
[GH 17.7]			[+1.018]	
TI	TP2		+0.902	
[TP2]			[+0.160]	
	Bm G93		+5.203	262.749

Bm. EL		TRIG LEVELS CONT.		⑥	
				JUNE 19, 2001	
✓ 262.752m BRASS MON IN NE COR. CHICK RIVER BRIDGE NAVD -88 (NGS)					
5/8" RBR / 2" AC					
-0.003m					

① π /BS FS

AE

EL



BM-EL

TRIG LOOPS CONT.

⑦

JUNE 19, 2007

374.181m ✓
BRASS MON. SET VERTICALLY IN ROCK
NAVD88 (NGS)

5/8" RBR / 2" AC

-0.002m

224.733m ✓
BRASS MON. ON ROD. NAVD88 (NGS)

5/8" RBR / 2" AC

+0.007m

⑧ π/BS FS

ΔE EL

π			
[BM R21]		[-0.220]	
π	GH 10.3	+0.308	198.712m
[GH 10.3]		[+0.410]	
	BM R21	-0.117	198.185

BM-EL

⑧

JUNE 19, 2001

198.184m	BRASS MON. IN CONC. NAVD 88 (NGS)		
5/8" RGR / 2" AC			
+0.001m			

⑨ T/BS FS 1E EL

π				
[287]			[+0.408]	
π	TP ₁		-0.410	
[TP ₁]			[-0.176]	
π	GH66.9		+4.497	119.110
[GH66.9]			[+4.561]	
π	TP ₂		-0.108	
[TP ₂]			[-0.442]	
	287		+0.434	175.317

Bn EL TRIG LOOPS CONT.

JUNE 19, 2001

175.315^m ✓ BRASS MON. IN KING RIVER BRIDGE ABUT.
NAVD-88 (NGS)

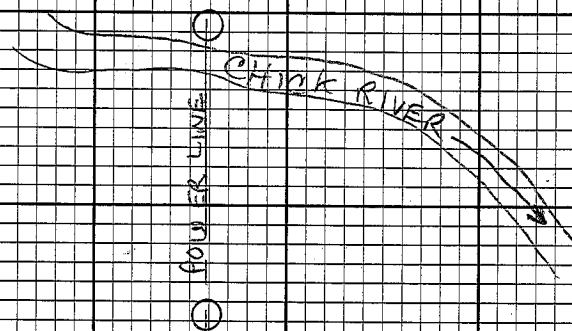
5/8" RBR / 2" AC

+0.002 m

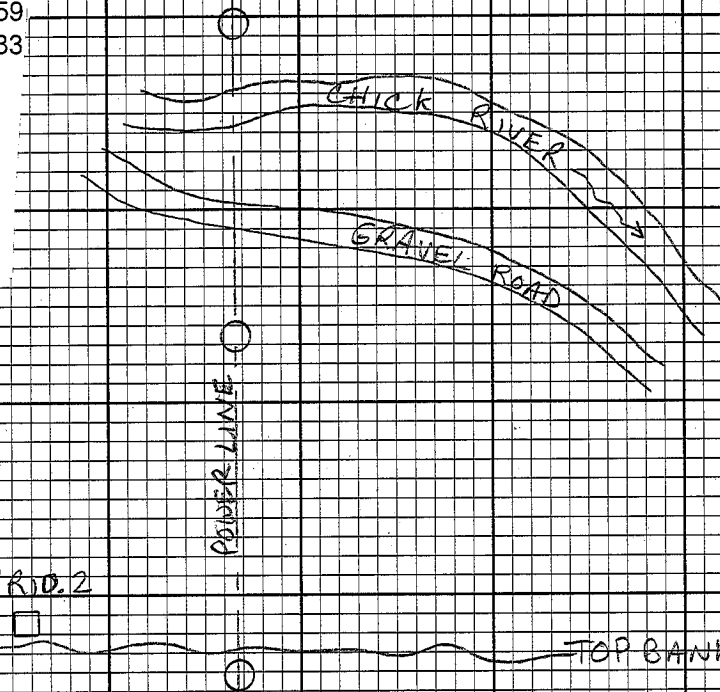
JUNE 9, 2001

POINT ID	POINT CLASS	POINT TYPE	ALASKA STATE PLANE ZONE 4 STAKED COORDS		ORTHO HEIGHT	ALASKA STATE PLANE ZONE 4 COMPUTED COORDS		INVERSE DIST
GH77.7	Control	Grid	868109.2011	581099.8183	257.762			
BRID2	Adjusted	Grid	867989.0775	581158.4537	291.9586	867987.654	581159.969	2.079059
BRID1	Adjusted	Grid	868132.4531	581309.7171	292.2175	868132.358	581309.819	0.139383
GH78.6	Control	Grid	868568.974	582736.2636	359.303			

could not get signal where BRID 2 needed to be, taped 2.1 m and set stake.



SET STAKE BRID 1 ± 75' EAST OF POWERLINE, USE UPPER DIRT ROAD TO GET TO POWERLINE, FOLLOW FLAGGING ALONG TOP

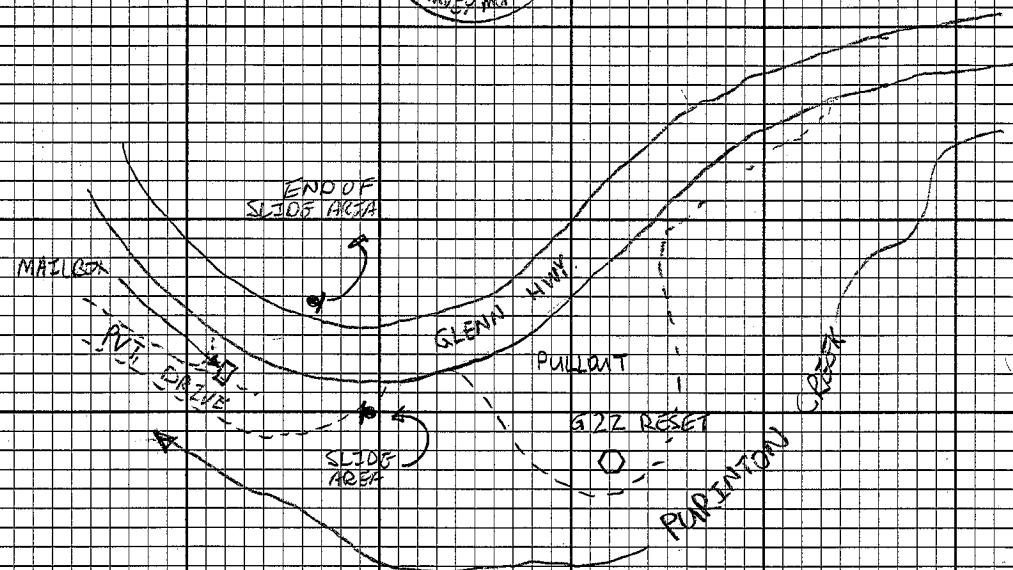


SET STAKE BRID 2 ± 150' WEST OF POWERLINE, FOLLOW FLAGGING AT TOP OF BANK FROM POWERLINE

RTK POSITION WAS RECORDED 2m N.W. DUE TO TREE COVER, USED TAPE AND COMPASS TO LOCATE STAKE IN TRUE POS.

9/10/02

SET 9/16" X 5'0" STAINLESS STEEL ROD
W/ 2 1/2" BRASS RING CAP AND ROUNDED
STEEL DATUM HEAD, DN 6", IN 4" X 1"
WELL CASING DN 0.3", WITH CARBONITE
POST OF SOUTH OF G22 RESET



330.0 FROM END OF SLIDE AREA SIGN
51.0 FROM E. OF GLENN HWY

9/10/02

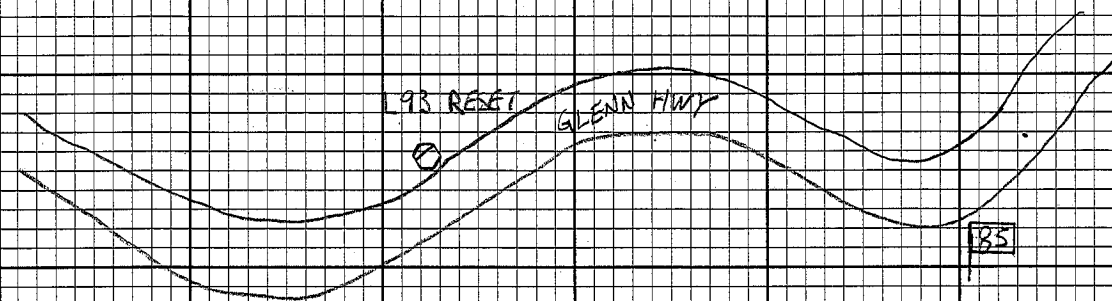
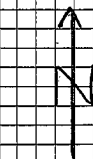
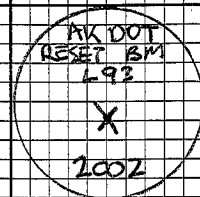
BURKHOLDER

KANT

(12)

L93 RESET (MILE 85)

SET 7/2" BRASS CAP, COMPTON FLUSH
IN ROCK AT A 30° ANGLE -



RPS

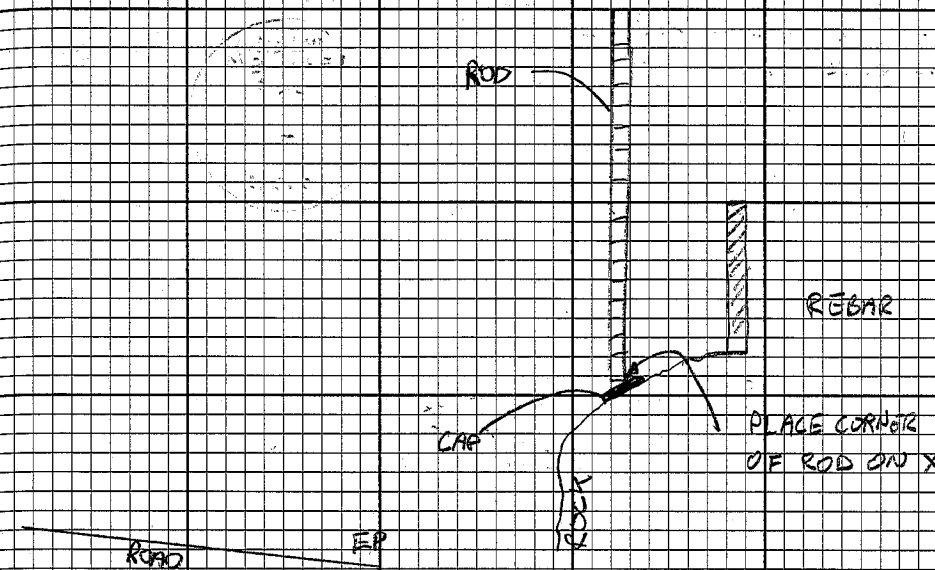
10° SOUTH FROM REBAR IN ROCK (#5 X 24") UP 21"
451° WEST FROM MILE POST 85
192° NW FROM C. OF ROADWAY
25' ABOVE NORTH EP OF ROADWAY
0.3 M W FROM BM E22

(12)

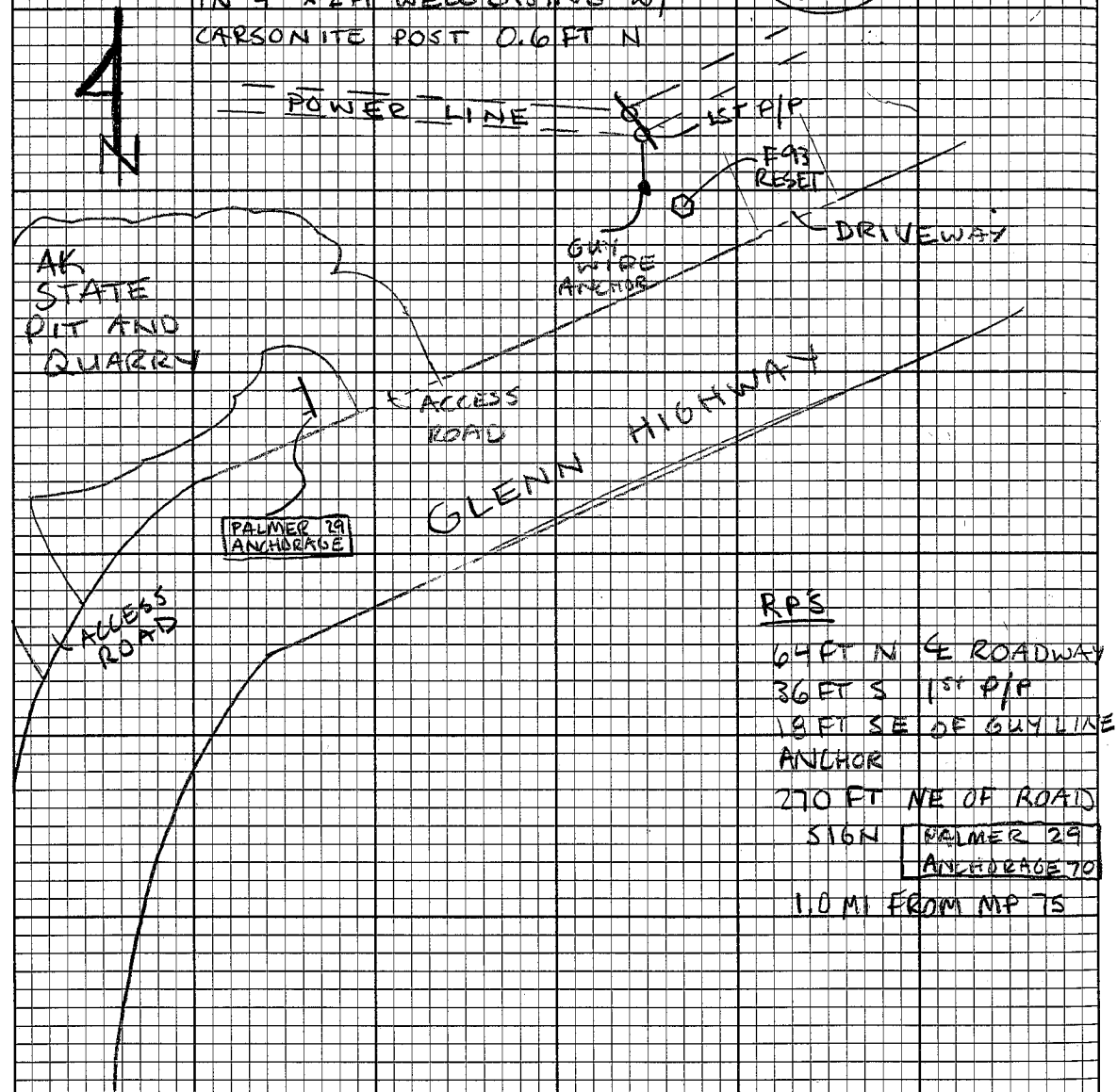
SEP 11, 2002

BURKHOLDER

KANE

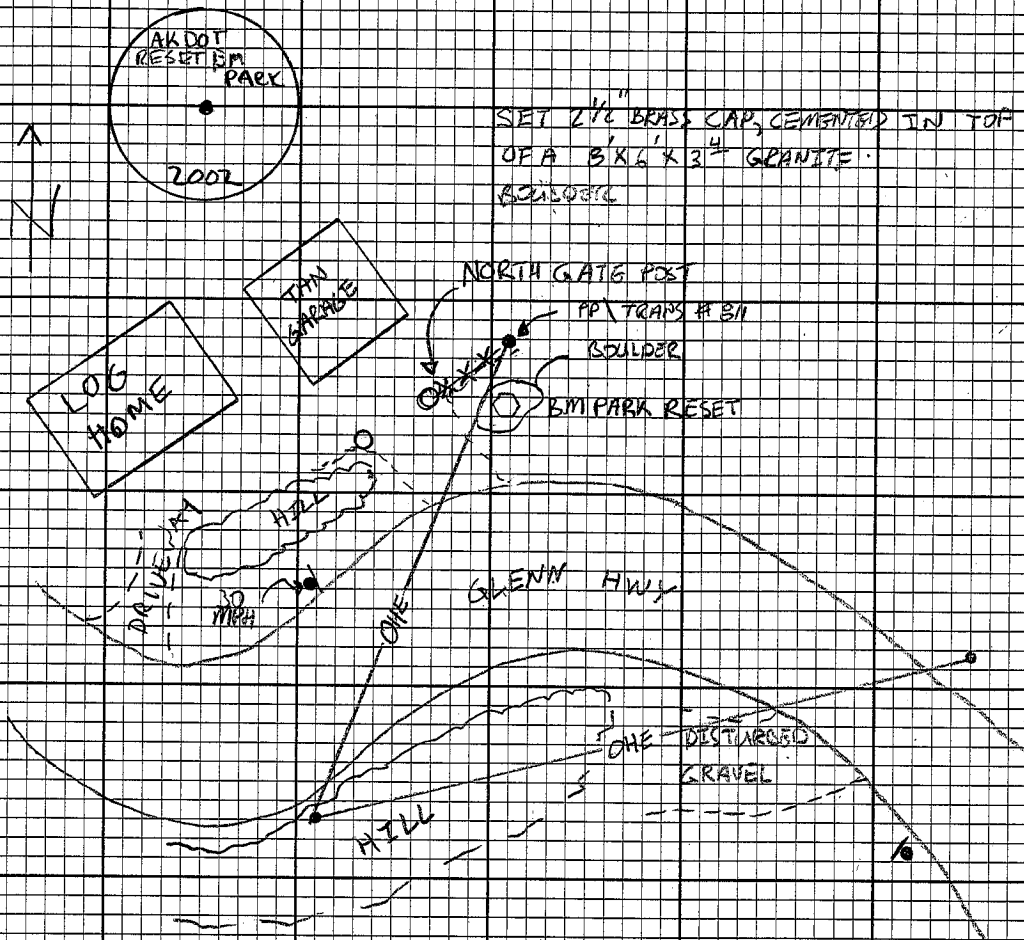


SET 9/16" X 11 FT STAINLESS
STEEL DRIVE ROD AND 2 1/2"
BRASS RING CAP AND ROUNDED
STEEL DATA HEAD 0.3 FT AGL
IN 4" X 2 FT WELL CASING W/
CARSONITE POST 0.6 FT N



RPS
64 FT N E ROADWAY
36 FT S 1st P/P
18 FT SE OF GUY LINE
ANCHOR
270 FT NE OF ROAD
SIGN PALMER 29
ANCHORAGE TO
1.0 MI FROM MP 75

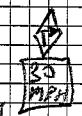
9/11/02
BURKHOLDER
KANE



SET 2 1/2" BRASS CAP, CEMENTED IN TOP
OF A 3' X 6' X 3" GRANITE
BOULDER

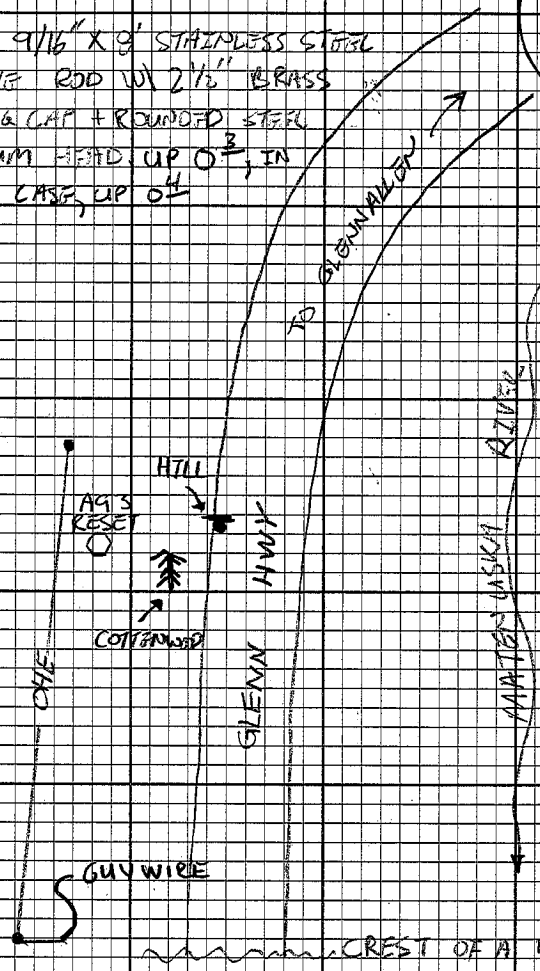
RD'S

- 2.75 EAST FROM CARSONITE POST
- 1142' NORTH FROM 30 MPH SIGN
- 21.5 SE FROM PP TRAPS #311
- 24.0 EAST FROM NORTH GATE POST
- 0.3 MI SOUTH FROM MP 73

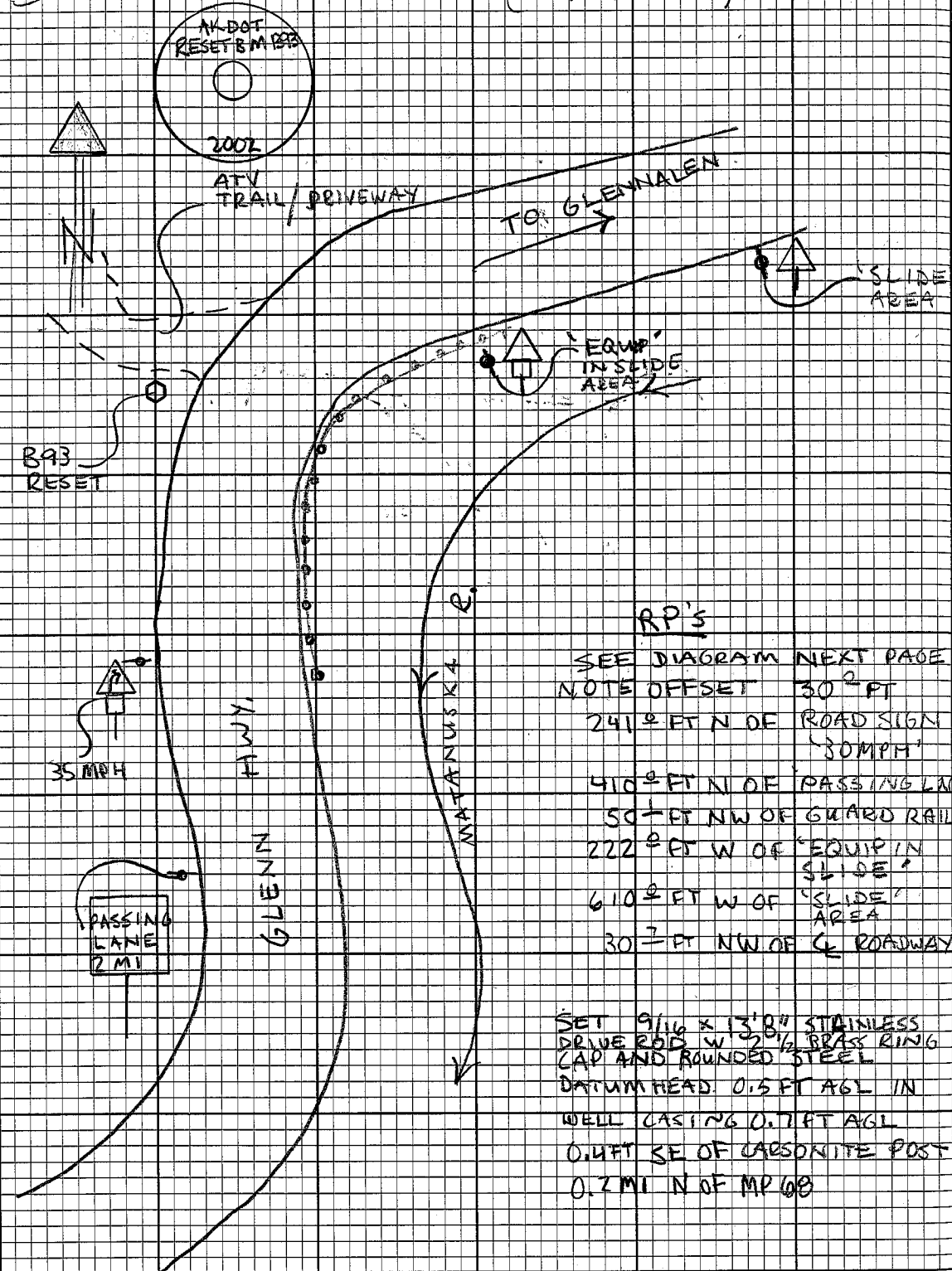




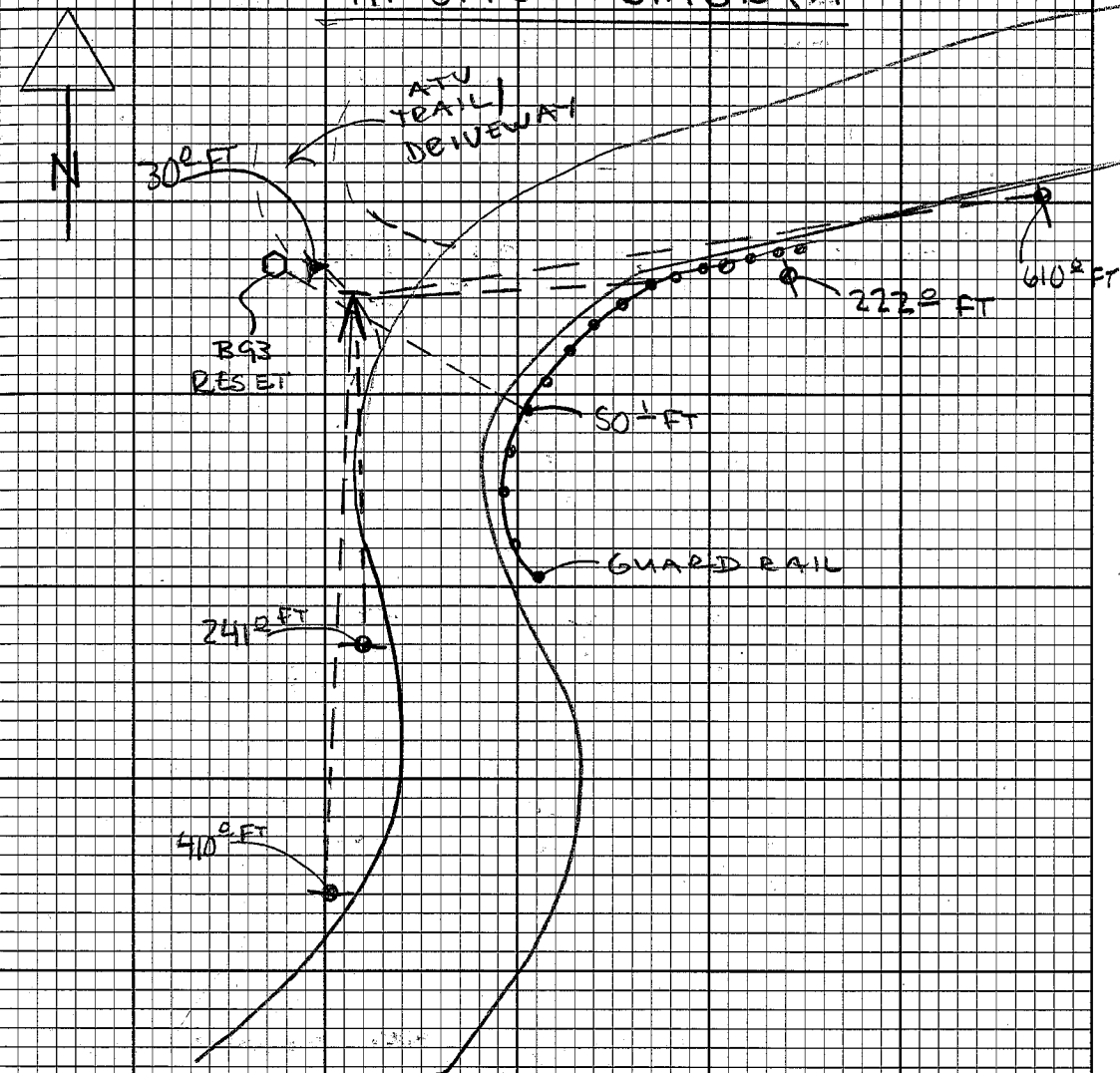
SET 9/16" X 9' STAINLESS STEEL
DRIVE ROD W/ 2 1/2" BRASS
RING CAP + ROUNDED STEEL
DATUM HEAD UP 0 3/4", IN
WELL CASE, UP 0 1/4"



- RDS 27 1/2 NORTH FROM 24" COTTON WOOD W/ A BLAZED TRIANGLE
- 59 2 NW FROM Q OF GLENN HWY
- 244 2 NE FROM SOUTH POWER POLE
- 99 2 SW FROM NORTH POWER POLE
- 45 8 W FROM HILL SIGN
- 4 2 W FROM CARBONITE POST
- 13 1/4 ABOVE Q OF GLENN HWY
- 0 1/4 M FROM MP 67
- 0 6 M FROM MP 68



RP OFFSET DIAGRAM



①

TBM'S FROM KING RIVER BRIDGE

THE FOLLOWING TBMS WERE SET AND NAMED USING
DISTANCES DETERMINED BY ODOMETER
BEGINNING AT KING RIVER BRIDGE. ALL
TBM'S CONSIST OF A 6" STEEL RAILROAD
SPIKE.

TBM DESCRIPTION

TBM 0.45 RAILROAD SPIKE SET ON N. SIDE OF 8"
COTTONWOOD 77 FT SW $\frac{1}{2}$ GLENN HWY, 1.5 FT
ABT, 1.5 FT BELOW $\frac{1}{2}$ ROAD LEVEL, 32 FT
NW OF P/P AC91.

TBM 1.4 RAILROAD SPIKE SET IN SOUTH SIDE OF 14"
COTTONWOOD 45 FT SE OF $\frac{1}{2}$ GLENN HWY, 3 FT
ABOVE BASE OF TREE

TBM 2.3 RAILROAD SPIKE SET IN ROCK FACE 76 FT
N OF $\frac{1}{2}$ GLENN HWY, 32 FT ABOVE $\frac{1}{2}$ ROAD LEVEL

TBM 3.2 RAILROAD SPIKE SET ON SE SIDE OF 8" SPRUCE
34 FT NW OF $\frac{1}{2}$ GLENN HWY, 22 FT ABOVE
BASE OF TREE

TBM 4.5 RAILROAD SPIKE SET ON N SIDE OF 10"
COTTONWOOD 42 FT S OF $\frac{1}{2}$ GLENN HWY,
14 FT ABOVE BASE OF TREE

TBM 5.5 RAILROAD SPIKE SET ON N SIDE OF 14"
COTTONWOOD 37 FT NW OF $\frac{1}{2}$ GLENN HWY,
12 FT ABOVE BASE OF TREE

9/12/62

BURKHOLDER

KANE

(18)

TBM'S FROM KING RIVER BRIDGE

(CONTINUED)

TBM DESCRIPTION

TBM 6.2 RAILROAD SPIKE SET ON NW SIDE OF 12"
COTTONWOOD 31 FT NW OF $\frac{1}{2}$ GLENN HWY,
19 FT ABOVE BASE OF TREE, NEAR WEST
CORNER OF ADELIN CT.

TBM 7.1 RAILROAD SPIKE SET ON NW SIDE OF
6" COTTONWOOD 39 FT S OF $\frac{1}{2}$ GLENN HWY.,
12 FT ABOVE BASE OF TREE.

TBM 8.0 RAILROAD SPIKE SET ON NW SIDE 12"
COTTONWOOD 36 FT SW OF $\frac{1}{2}$ GLENN HWY.,
19 FT ABOVE BASE OF TREE.

TBM 9.1 RAILROAD SPIKE SET IN 12" COTTONWOOD
33 FT NW OF $\frac{1}{2}$ GLENN HWY, 19 FT ABOVE
BASE OF TREE

TBM 10.2 RAILROAD SPIKE SET IN 8" SPRUCE 42 FT
S OF $\frac{1}{2}$ GLENN HWY, 12 FT ABOVE BASE
OF TREE

TBM 11.1 RAILROAD SPIKE SET IN 12" COTTONWOOD
27 FT SE OF $\frac{1}{2}$ GLENN HWY, 15 FT
ABOVE BASE OF TREE

(19)

9/12/02

BURKHOLDER

KANE

(19) TBM'S FROM CHICKALOON RIVER BRIDGE

THE FOLLOWING TBMS WERE SET AND NAMED USING
DISTANCES DETERMINED BY GEOMETRIC BEGINNING
AT CHICKALOON RIVER BRIDGE. ALL TBMS CONSIST
OF A 6" RAILROAD SPIKE.

TBM DESCRIPTION

TBM 0.6 SET IN GUARDRAIL POST, 0⁵ UP, 1² UP FROM & ROAD,
34² S OF & GLENN HWY

TBM 1.9 SET IN N. SIDE OF 14" COTTONWOOD, 1² UP,
34² S FROM &, 1² ABOVE &

TBM 3.0 SET IN W SIDE OF 14" COTTONWOOD 37 FT S OF
& GLENN HWY, 2² FT ABT, 2² FT BELOW & ROAD LEVEL

TBM 4.1 SET IN N SIDE OF 12" BIRCH TREE 46 FT
S OF & GLENN HWY, 2² FT ABT, 2² FT BELOW
& ROAD LEVEL

TBM 5.1 SET IN NW SIDE OF 10" COTTONWOOD 32 FT
S OF & GLENN HWY, 2² FT ABT, 5 FT
BELOW & ROAD LEVEL

TBM 6.1 SET IN NW SIDE 10" COTTONWOOD 39 FT S
OF & GLENN HWY, 1² FT ABT, 3² BELOW
& ROAD LEVEL

9/13/02

BURKHOLDER
KANE

② TBM'S FROM CHICKALOON R. BRIDGE
(CONTINUED)

TBM DESCRIPTION

- TBM 7.7 SET IN TOP OF LARGE BOWLER 42 FT
S OF $\frac{1}{2}$ GLENN HWY, 2 FT UP, LEVEL W
 $\frac{1}{2}$ ROAD LEVEL 12 FT NE OF 6" COTTONWOOD
AT EDGE OF PULLOUT AREA
- TBM 8.8 SET IN LOWER ROCK FACE 23 FT N OF $\frac{1}{2}$ GLENN HWY
3 FT ABOVE $\frac{1}{2}$ ROAD LEVEL
- TBM 9.8 SET IN S. SIDE OF 10" COTTONWOOD 31 FT
N OF $\frac{1}{2}$ GLENN HWY, 2 FT ABT, 4 FT ABOVE
 $\frac{1}{2}$ ROAD LEVEL
- TBM 10.7 SET IN N SIDE OF 14" COTTONWOOD 50 FT
S OF $\frac{1}{2}$ GLENN HWY, 2 FT ABT
- TBM 11.5 SET IN POWER POLE NO. 8103, 46 FT
S OF $\frac{1}{2}$ GLENN HWY, 1 FT ABOVE BASE
OF POLE
- TBM 12.2 SET IN NW SIDE OF 9" COTTONWOOD
74 FT S. OF $\frac{1}{2}$ GLENN HWY, 1 FT ABT
66 FT SE OF POWER POLE NO. 8078

NOTE

NO TBMS WERE SET BETWEEN D22 $\leftrightarrow$ L93 $\leftrightarrow$ E22

9/13/02

BURKHOLDER
KANE

(2)

RESET / RECOVERED BM'S (CONT'D FROM PG. 2)

L 93	RESET	7.2 N OF CHICKALOON RIVER
M 93		8.2 N OF CHICKALOON RIVER
F 22		9.4 N OF CHICKALOON RIVER
G 22	RESET	10.7 N OF CHICKALOON RIVER
H 22		11.1 N OF CHICKALOON RIVER
J 22		12.0 N OF CHICKALOON RIVER
K 22		12.9 N OF CHICKALOON RIVER

(2)