FED. ROAD DIVISION	STATE	PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS	FINALIZED PLANS
7	ARIZ.	F-053-1-603	1	35	

DRAWING NUMBER D-4-T-343

STATE OF ARIZONA
STATE HIGHWAY DEPARTMENT

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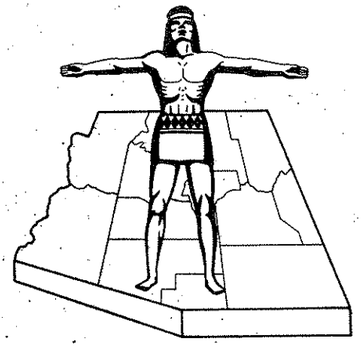
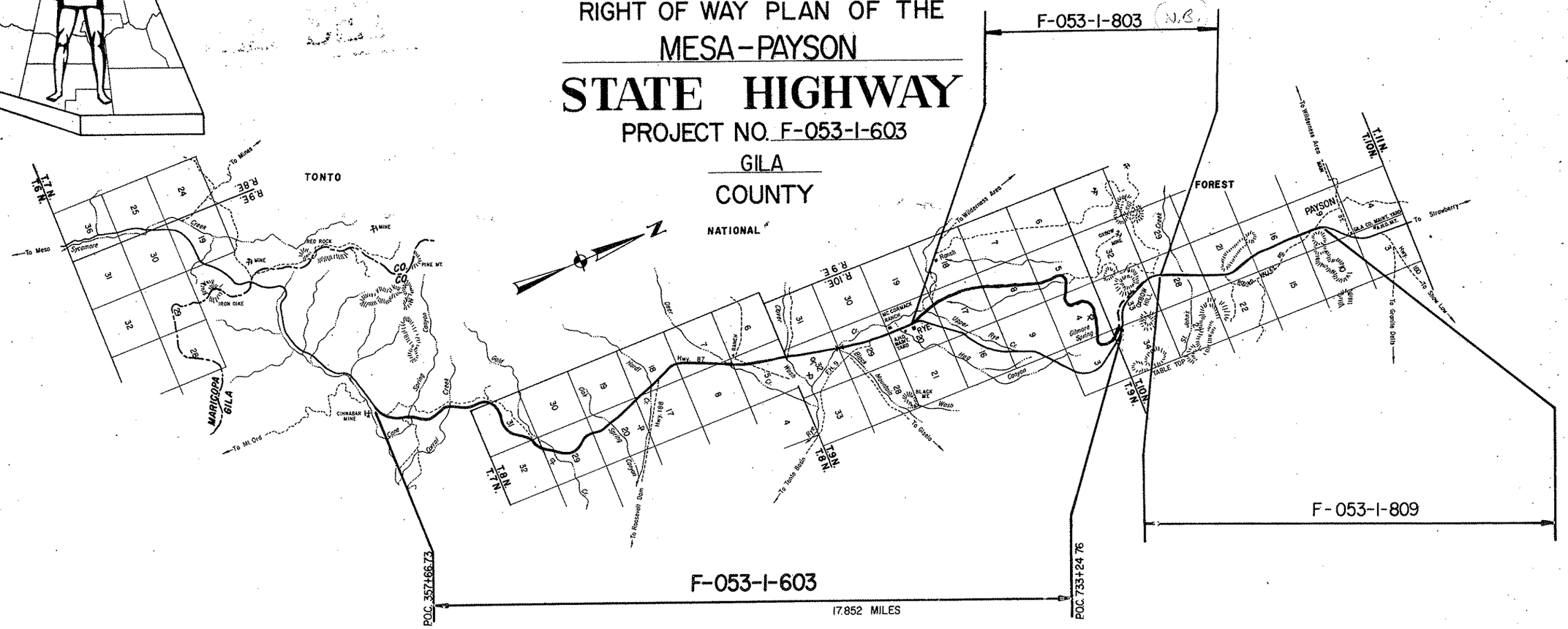


RIGHT OF WAY PLAN OF THE MESA-PAYSON STATE HIGHWAY

PROJECT NO. F-053-1-603

GILA COUNTY



CONVENTIONAL SIGNS

HIGHWAY CENTER LINE (New) (Existing)
HIGHWAY R/W LINE (New) (Existing)
CONTROLLED ACCESS (Denied) (Open) (Existing)
R.R. R/W COMMON TO HIGHWAY R/W (Existing)
R.R. R/W LINE
TOWNSHIP AND RANGE LINE
SECTION LINE
1/4 LINE OR MID-SECTION LINE
1/16 LINE
PROPERTY LINE (not part of a Subdivision)
SUBDIVISION OR LOT LINE
ORIGINAL LOT LINE
STATE AND NATIONAL BOUNDARIES
COUNTY LINE
CITY LIMITS
LAND GRANTS BOUNDARIES

FOREST, NATIONAL MONUMENTS,
MILITARY BASES AND INDIAN RESERVATION
SURVEY MEANDER LINE
NEW R/W CONTROL POINT
EXISTING R/W MARKER
PARCEL NUMBER 7-001
RAILROAD TRACK
POWER LINE
POWER TRANSMISSION LINE
TELEPHONE LINE
COMBINATION TELEPHONE AND POWER LINE
UNDERGROUND TELEPHONE CABLE T T
WATER LINE W 2"
GAS LINE G 2"
SEWER LINE S 2"
STORM DRAIN SD 2"
(Show size of line in alternate spaces)
CHAIN LINK FENCE

BARBED WIRE FENCE (call out type) Gate
STREET LIGHT on extended arm
WATER METER
WATER VALVE
DOWN GUY
FIRE HYDRANT
GAS METER
GAS VALVE
MANHOLE (existing)
ROAD (existing)
PROPERTY ANCHOR BARS
PROPERTY LIMITS ARROWS
CANAL, CHANNEL OR DITCH
BRIDGE
BOX CULVERTS
CATTLE GUARD
RIVER
PIPE CULVERTS (New) (Existing)
DYKE

REDUCED SIZE
DO NOT SCALE

Approved:

I. B. Mert 9-5-72
DEPUTY STATE ENGINEER DATE

ARIZONA STATE HIGHWAY COMMISSION
Approved for Right of Way Acquisition in accordance with Resolution Number 61-14 dated 6-26-60 & 6-10-66
William N. Price State Highway Engineer

Oscar T. Lyon Jr.
CHIEF DEPUTY STATE ENGINEER DATE

U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

Approved:

DIVISION ENGINEER DATE

MESA - PAYSON HIGHWAY
MARICOPA CO. LINE—PAYSON
GILA COUNTY

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9342	7-21-99	MTP	INCREASE NET AREA TO PAR. 4-525.

C.O. No.	DATE	BY	DESCRIPTION
9491	2-7-78	C.G.	Revised Net area.
3908	4-17-78	J.G.H.	Added Forest Service Fence Note.
4768	5-2-77	K.S.	Rev'd stn. no. and Net area Par. 4-140
9283	11-19-98	E.L.G.	Added Par. 4-0525. & NOTE.
9313	2-24-99	C.J.K.	REV'D NET AREA PAR 4-0525
9323	4-12-99	C.J.K.	" " " "

	F-053-1-603
DRAWING NO.	D-4-T-343
SHEET NO.	2 OF 35
DRAWN BY	L.M.F.
DATE COMP.	8-28-72
SCALE	—

Note:
The right of way fences are, in some locations, outside the new right of way. Tonto National Forest shall grant permission to enter upon Forest lands for the purpose of maintaining said fences.

(1) NEW R/W (1998) PAR. NO. 4-0525 ACQUIRED FOR CONSTR. PROJ. 087 GI 243 H4026 01C.

OWNERSHIP RECORD / ACQUISITION RECORD

PARCEL NUMBER	OWNER	DESCRIPTION	TOTAL AREA	AREA GROSS INCLUDING EXISTING R/W	AREA REQUIRED NET EXCLUDING EXISTING R/W	EASEMENT AREA	REMAINDER LEFT	REMAINDER RIGHT	SHEET NUMBER	COMMISSION APPROVAL	TYPE & DATE OF INSTRUMENT	RECORDED DATE	RECORDED BOOK	RECORDED PAGE
4-140	Tonto National Forest	Pt. of T. 7N., R.9E.; T.8N., R.9E.; T.8N., R.10E.; T.9N., R.10E.; T.10N., R.10E.			~~460.9 Ac.~~ ~~370.1 Ac.~~ 367.9 Ac.				3 thru 35	7-5-79	LETTER 5-24-79	NOT RECORDED		
4-0525	Tonto National Forest	Pt. of Sec. 5,4,&3. T9N R10E & SEC. 34 T10N R10E.			~~3.91 Ac.~~ ~~3.39 Ac.~~ (1) ~~3.92 Ac.~~ 4.05 Ac.				31 thru 35					

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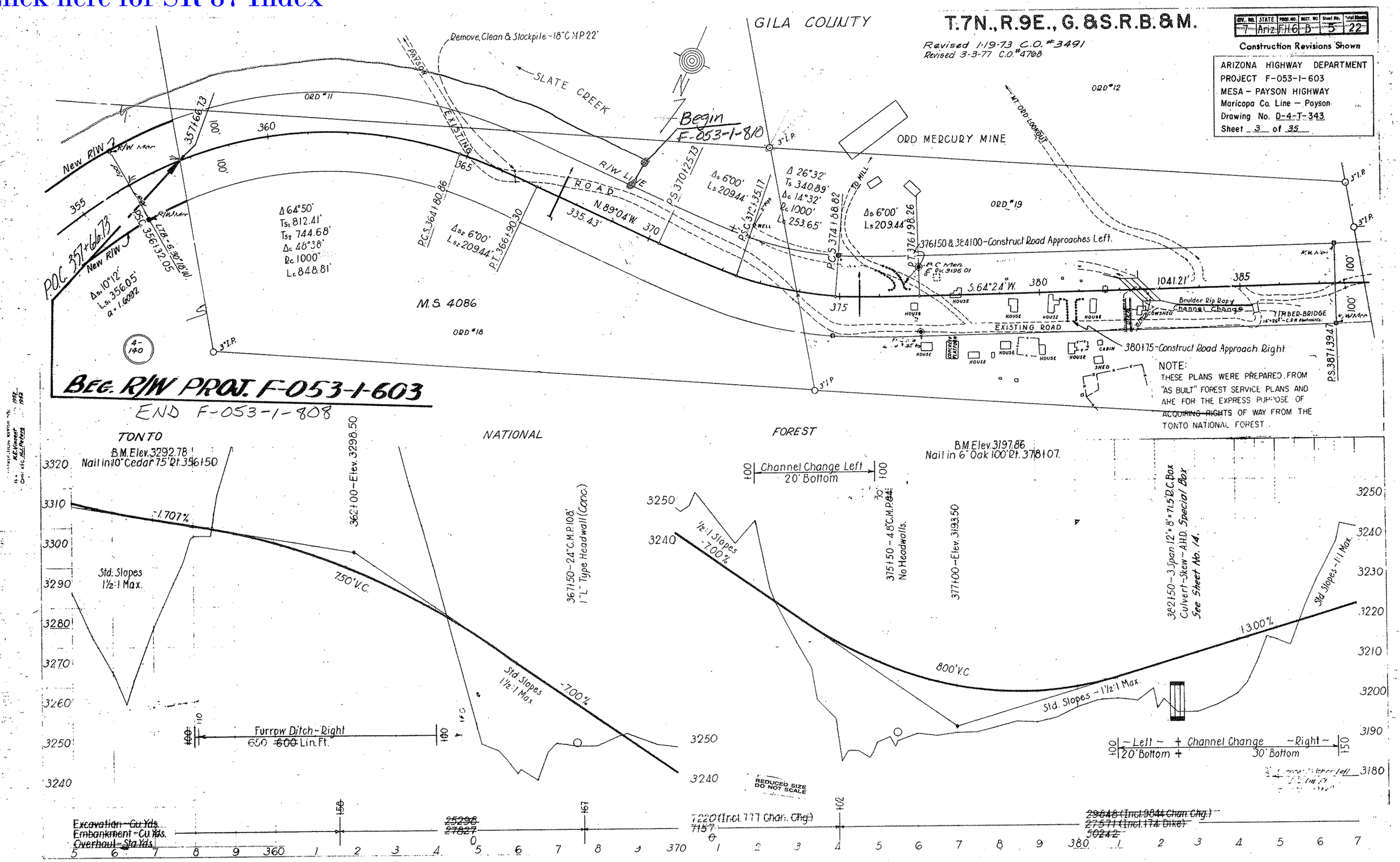

TONTO GILA COUNTY T.7N., R.9E., G.&S.R.B.&M.

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DIST. NO.	STATE	FED. NO.	SECT. NO.	Sheet No.	Total Sheets
7	Ariz.	F.H.6	B	4	22

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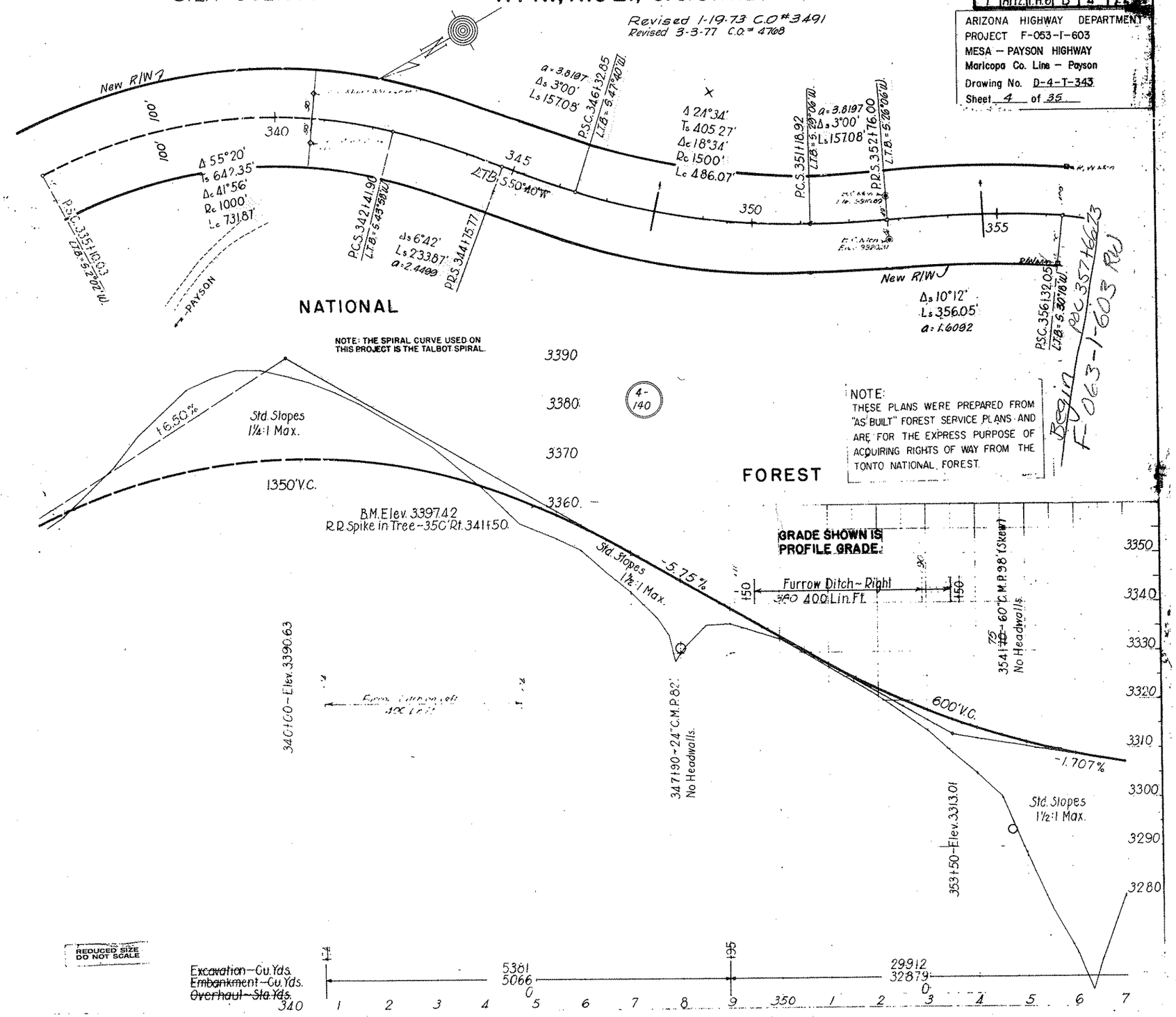
Maricopa Co. Line – Payson
Drawing No. D-4-T-343
Sheet 4 of 35

Revised 1-19-73 C.O.# 3491
Revised 3-3-77 C.O.# 4768



REDUCED SIZE DO NOT SCALE

GENERAL NOTES

CLEARING AND GRUBBING to be performed Sta. 340+74 to Sta. 575+51 to width indicated on Typical Cross Section and for Approach Roads and Channel changes as directed by the Engineer.

EMBANKMENT materials to be placed in accordance with Code 3, subsection 29-3.5 of F.P. 41.

FINISHING EARTH GRADED ROADS to be performed Sta. 340+74 to Sta. 575+51.

OBLITERATION OF OLD ROADWAY to be performed where directed by the Engineer – Force Account –

METAL GUIDE POSTS to be placed where directed.

ROAD APPROACHES to be constructed, where shown or where directed by the Engineer.

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7	Ariz.	F.H.6	C	10	18

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Maricopa Co. Line – Payson
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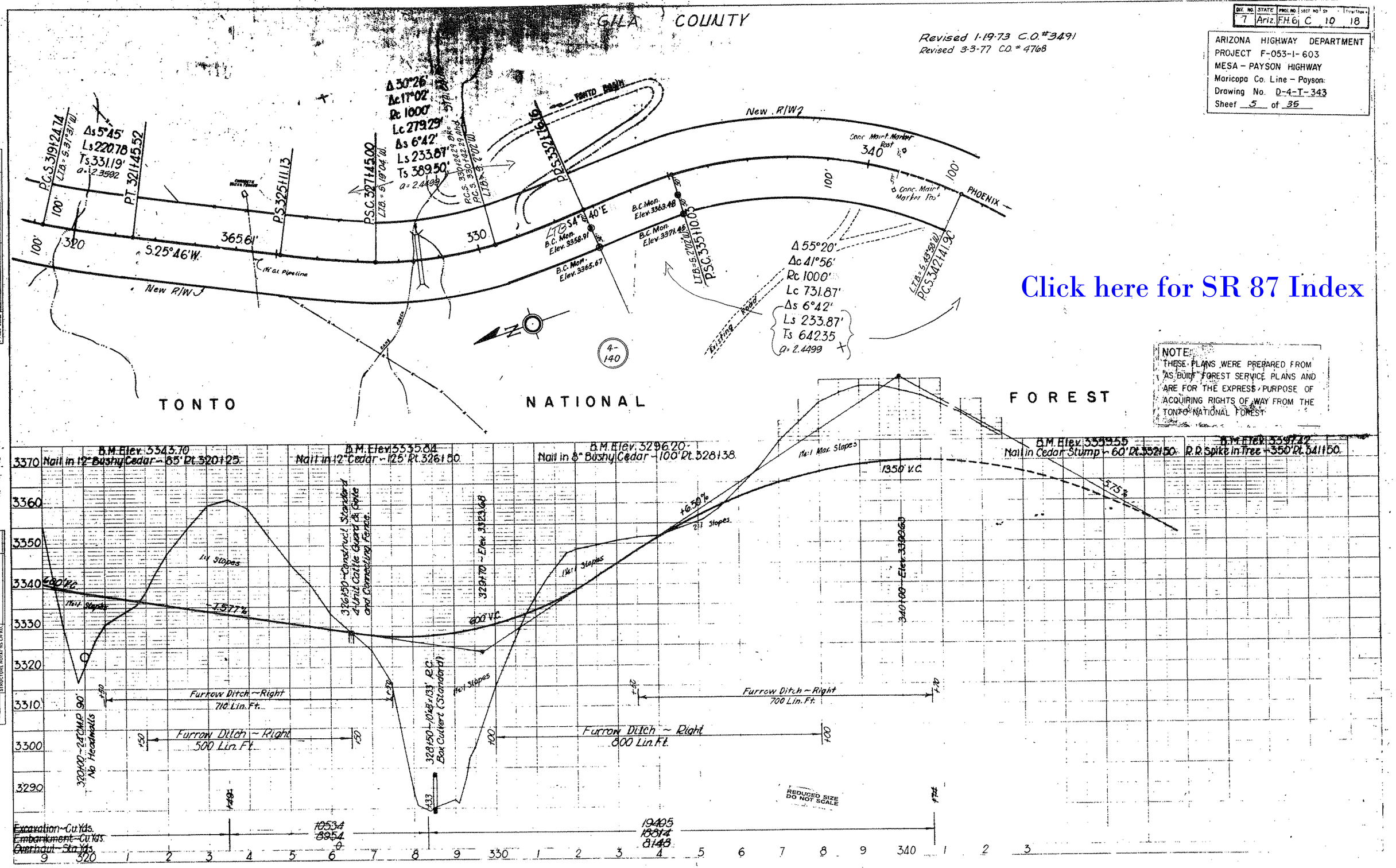
Revised 3-3-77 C.O. # 4768



NOTE:
THESE PLANS WERE PREPARED FROM "AS BUILT" FOREST SERVICE PLANS AND ARE FOR THE EXPRESS PURPOSE OF ACQUIRING RIGHTS OF WAY FROM THE TONTO NATIONAL FOREST

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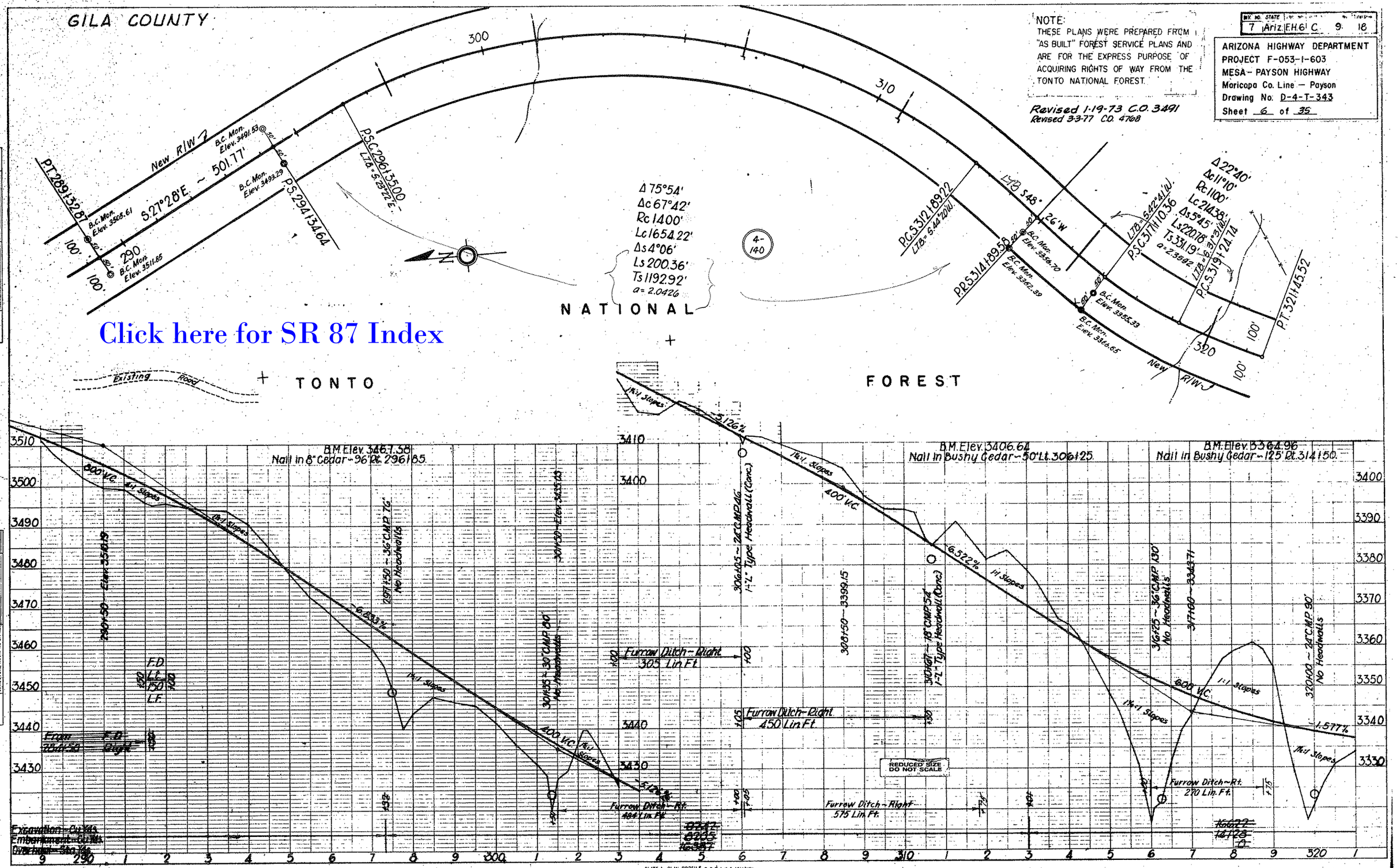
GILA COUNTY
NOTE:
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Revised 1-19-73 C.O. 3491
Revised 3-3-77 C.O. 4768
BRY. NO. STATE 7 Ariz. F.H.6 C 9 18
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Maricopa Co. Line — Payson
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Sheet 6 of 35
New R/W
P.T. 289+32.87
S.27°28'E. ~ 501.77'
P.S.C. 296+35.00
L.T.B. = S.23°22'E.
P.S. 294+34.64
Δ 75°54'
Δc 67°42'
Rc 1400'
Lc 1654.22'
Δs 4°06'
Ls 200.36'
Ts 1192.92'
a = 2.0426
4-140
P.C.S. 312+89.22
L.T.B. = S.44°20'W.
P.R.S. 314+89.58
L.T.B. S.48°26'W
Δ 22°40'
Δc 11°10'
Rc 1100'
Lc 214.38'
Δs 5°45'
Ls 220.78'
Ts 331.19'
a = 2.3592
L.T.B. = S.42°41'W.
P.S.C. 317+10.36
L.T.B. = S.37°31'W.
P.C.S. 319+24.14
P.T. 321+45.52
NATIONAL
TONTO
FOREST
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Existing Road
B.M. Elev. 3467.38
Nail in 8" Cedar - 96' Rt. 296+85
B.M. Elev. 3406.64
Nail in Bushy Cedar - 50' Lt. 306+25
B.M. Elev. 3364.96
Nail in Bushy Cedar - 125' Rt. 314+50
800' V.C.
400' V.C.
600' V.C.
1.5777%
6.803%
5.126%
6.522%
Furrow Ditch - Right 305 Lin. Ft.
Furrow Ditch - Right 450 Lin. Ft.
Furrow Ditch - Rt. 494 Lin. Ft.
Furrow Ditch - Right 575 Lin. Ft.
Furrow Ditch - Rt. 270 Lin. Ft.
296+50 ~ Elev. 3506.19
297+50 ~ 36" CMP 76' No Headwalls
301+50 ~ Elev. 3433.13
301+85 ~ 30" CMP 80' No Headwalls
306+05 ~ 24" CMP 46' 1-2' Type Headwall (Conc.)
308+50 ~ 3399.15
310+87 ~ 18" CMP 54' 1-2' Type Headwall (Conc.)
316+25 ~ 36" CMP 130' No Headwalls
317+60 ~ 3362.71
320+00 ~ 24" CMP 90' No Headwalls
F.D. Lt. 150 L.F.
F.D. Right
Excavation - Cu. Yds.
Embankment - Cu. Yds.
Overhaul - Sta. Yds.
REDUCED SIZE DO NOT SCALE
PLATE 1 - PLAN-PROFILE O.P.R. & R.E. STANDARD
KEUFFEL & ESSER CO. NEW YORK

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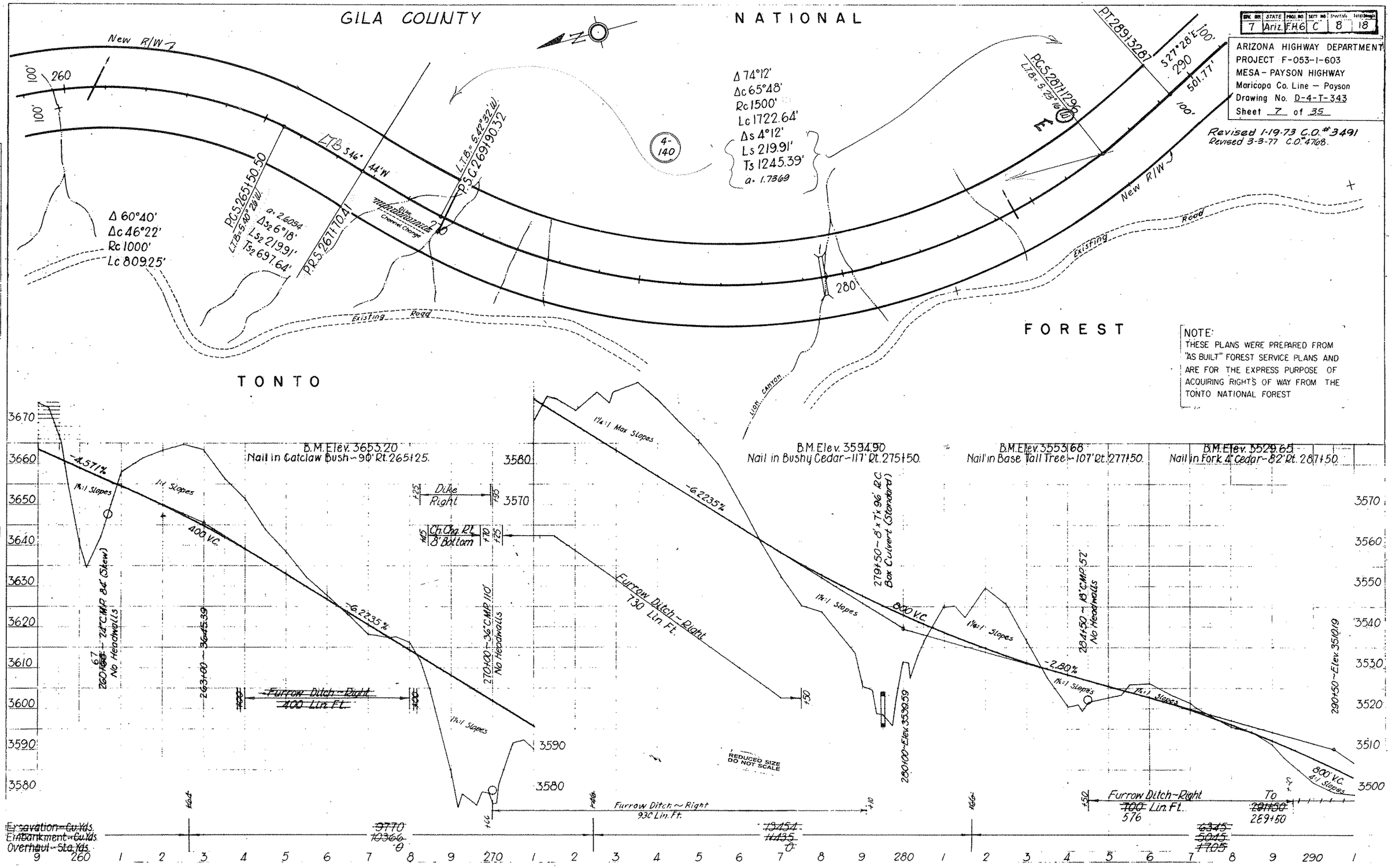

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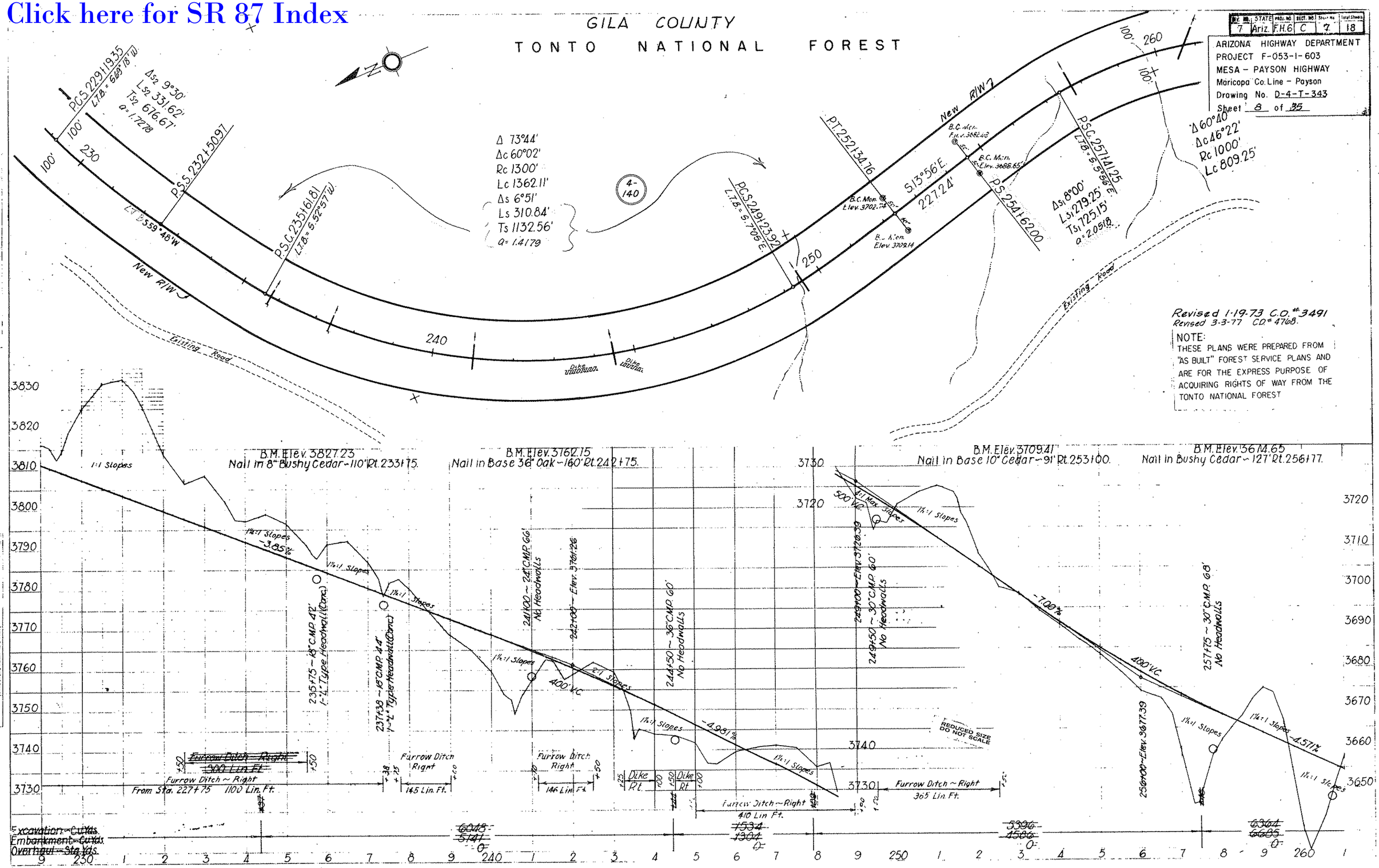

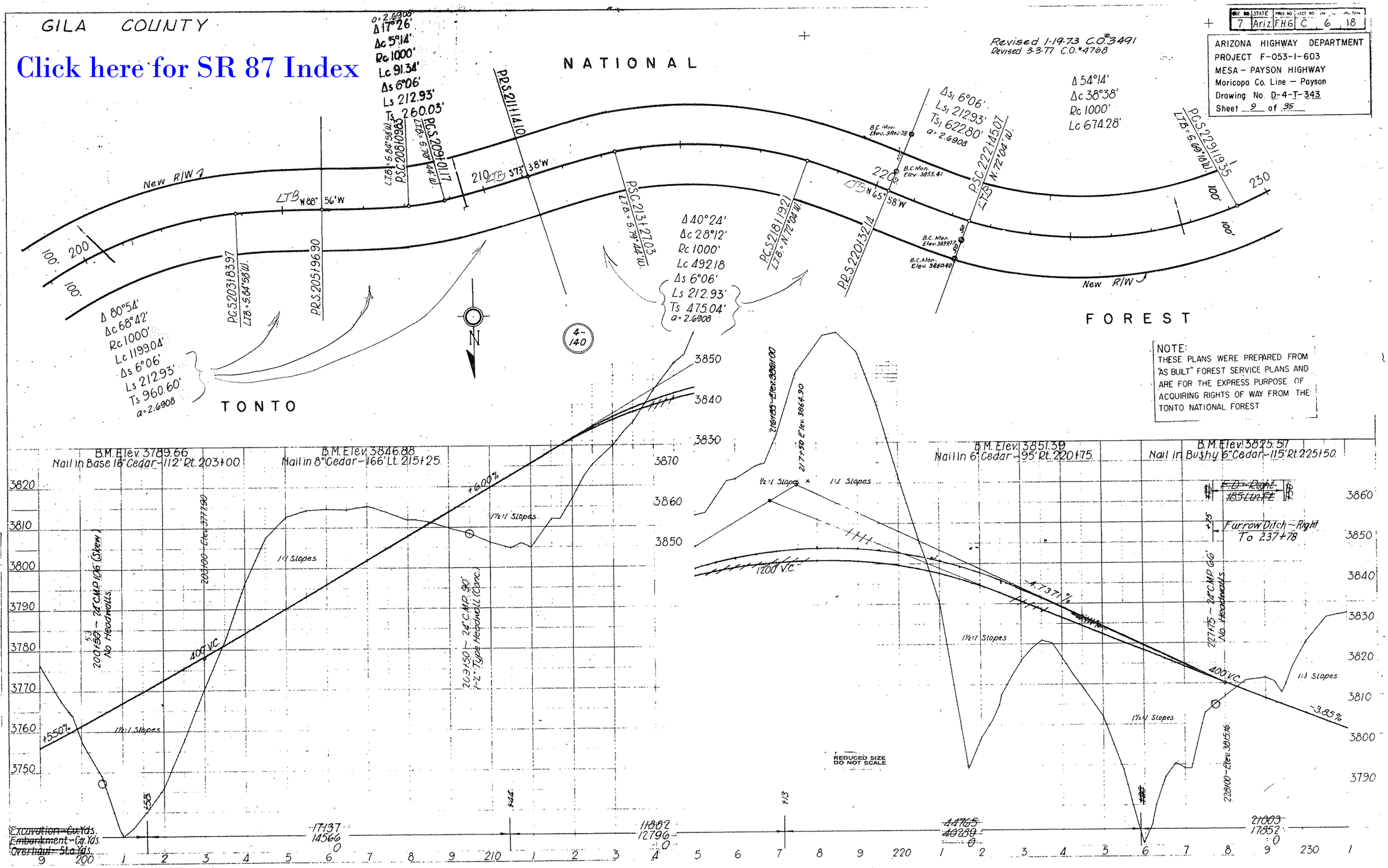
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ARIZONA HIGHWAY DEPARTMENT
PROJECT F-053-1-603
MESA - PAYSON HIGHWAY
Maricopa Co. Line - Payson
Drawing No. D-4-T-343
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NOTE:
THESE PLANS WERE PREPARED FROM "AS BUILT" FOREST SERVICE PLANS AND ARE FOR THE EXPRESS PURPOSE OF ACQUIRING RIGHTS OF WAY FROM THE TONTO NATIONAL FOREST
New R/W
Δ 80°54'
Δc 68°42'
Rc 1000'
Lc 1199.04'
Δs 6°06'
Ls 212.93'
Ts 960.60'
a=2.6908
Δ 40°24'
Δc 28°12'
Rc 1000'
Lc 492.18
Δs 6°06'
Ls 212.93'
Ts 475.04'
a=2.6908
Δ 54°14'
Δc 38°38'
Rc 1000'
Lc 674.28'
Δs1 6°06'
Ls1 212.93'
Ts1 622.80'
a=2.6908
P.R.S. 211+14.10
P.S.C. 209+01.17
P.S.C. 208+09.83
P.C.S. 203+83.97
P.R.S. 205+96.90
P.S.C. 213+27.03
P.C.S. 218+19.21
P.R.S. 220+32.14
P.S.C. 222+45.07
P.C.S. 229+19.35
B.M. Elev. 3789.66
Nail in Base 16" Cedar - 112' Rt. 203+00
B.M. Elev. 3846.88
Nail in 8" Cedar - 166' Lt. 215+25
B.M. Elev. 3851.39
Nail in 6" Cedar - 95' Rt. 220+75
B.M. Elev. 3825.57
Nail in Bushy 6" Cedar - 115' Rt. 225+50
+6.00%
+5.50%
-4.7371%
-3.85%
400' V.C.
1200' V.C.
1:1 Slopes
1½:1 Slopes
Furrow Ditch - Right
To 237+78
REDUCED SIZE
DO NOT SCALE
Excavation - Cu. Yds.
Embankment - Cu. Yds.
Overhaul - Sta. Yds.
17137
14566
11882
12796
44765
40289
21003
17852

GILA COUNTY

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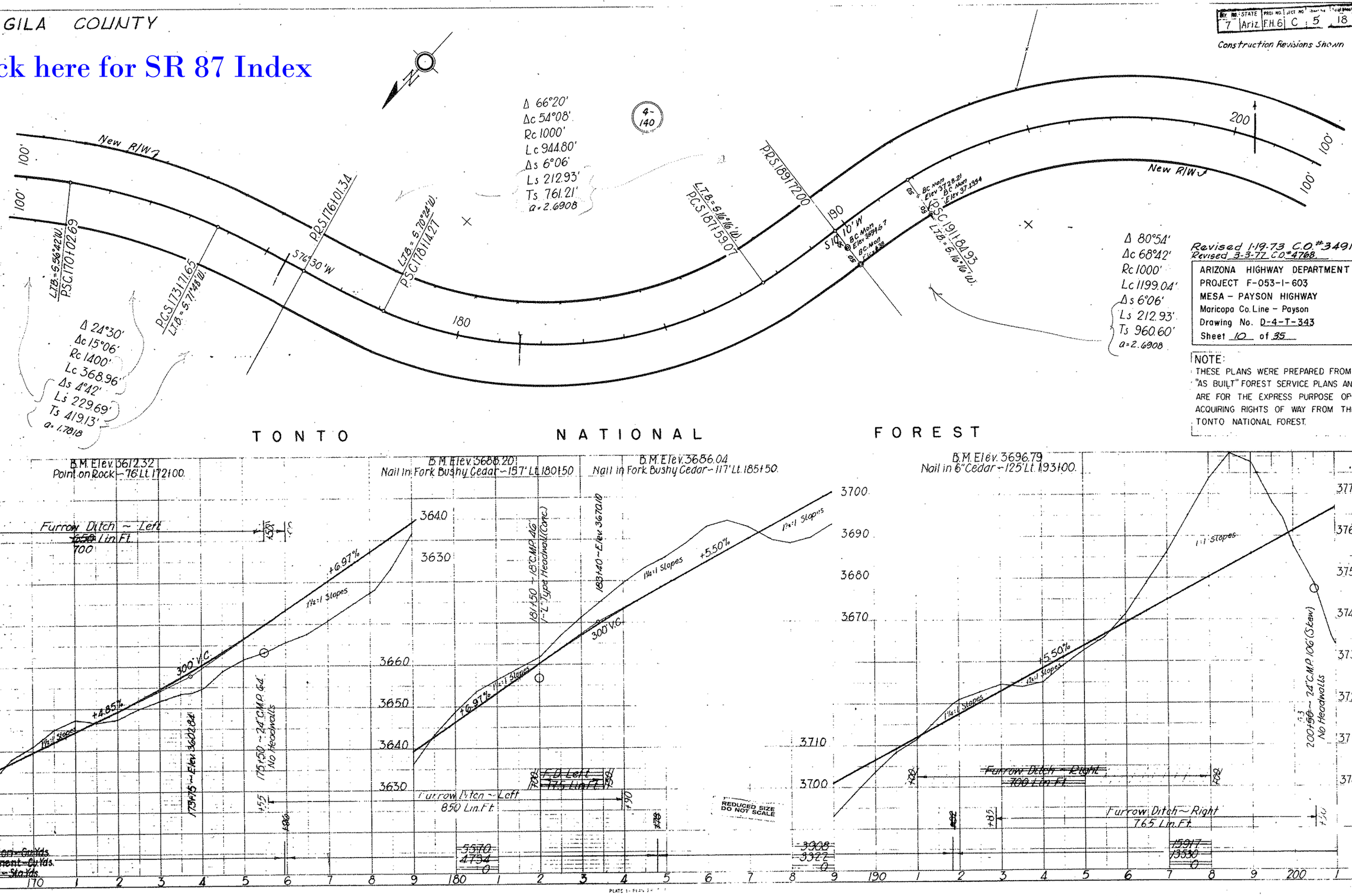
Construction Revisions Shown



GILA COUNTY

T. 8 N., R. 10 E., G. & S. R. B. & M.

TONTO NATIONAL FOREST

Revised 1-19-73 C.O.# 3491
Revised 3-3-77 C.O.# 4768

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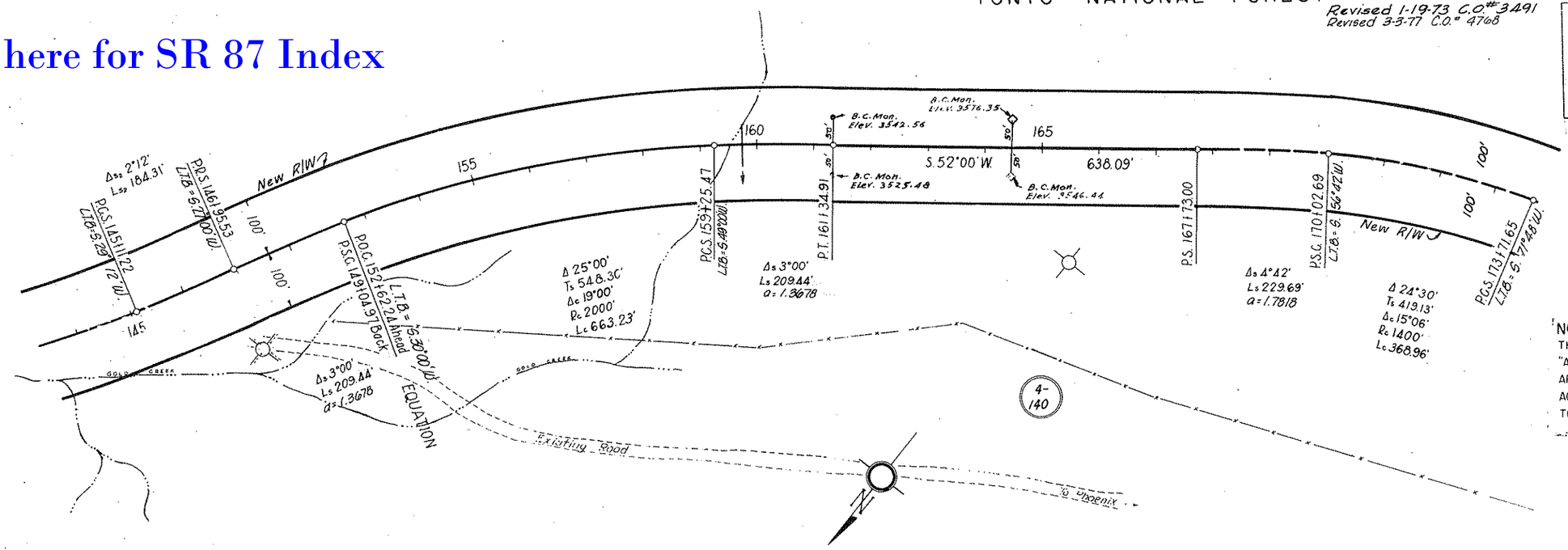

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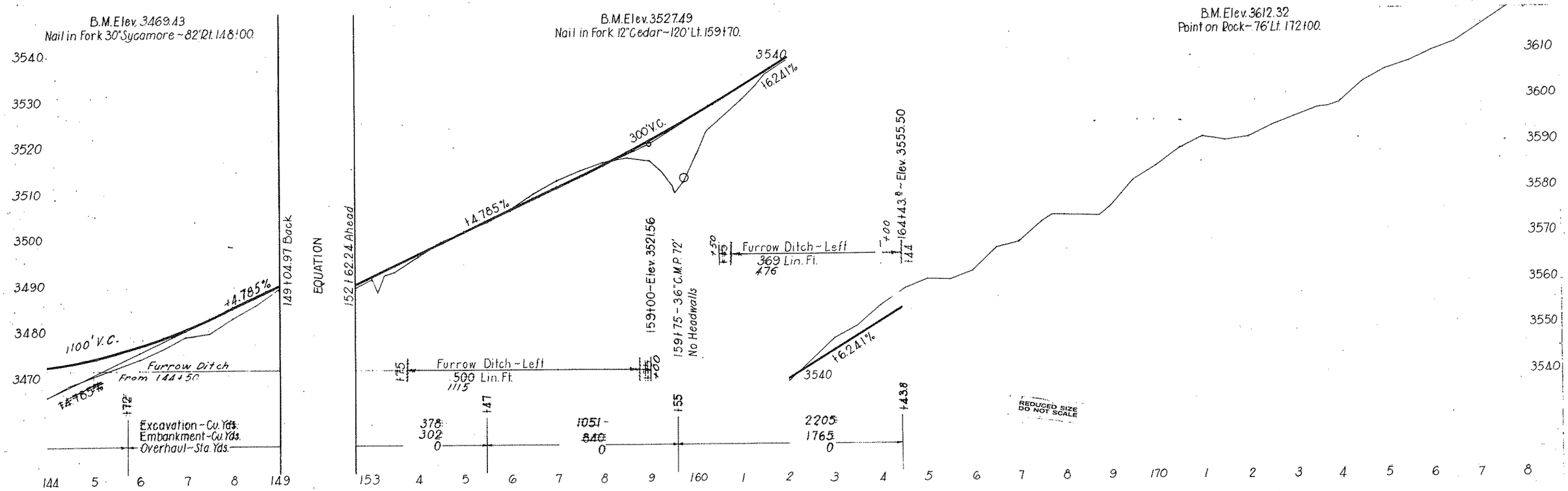

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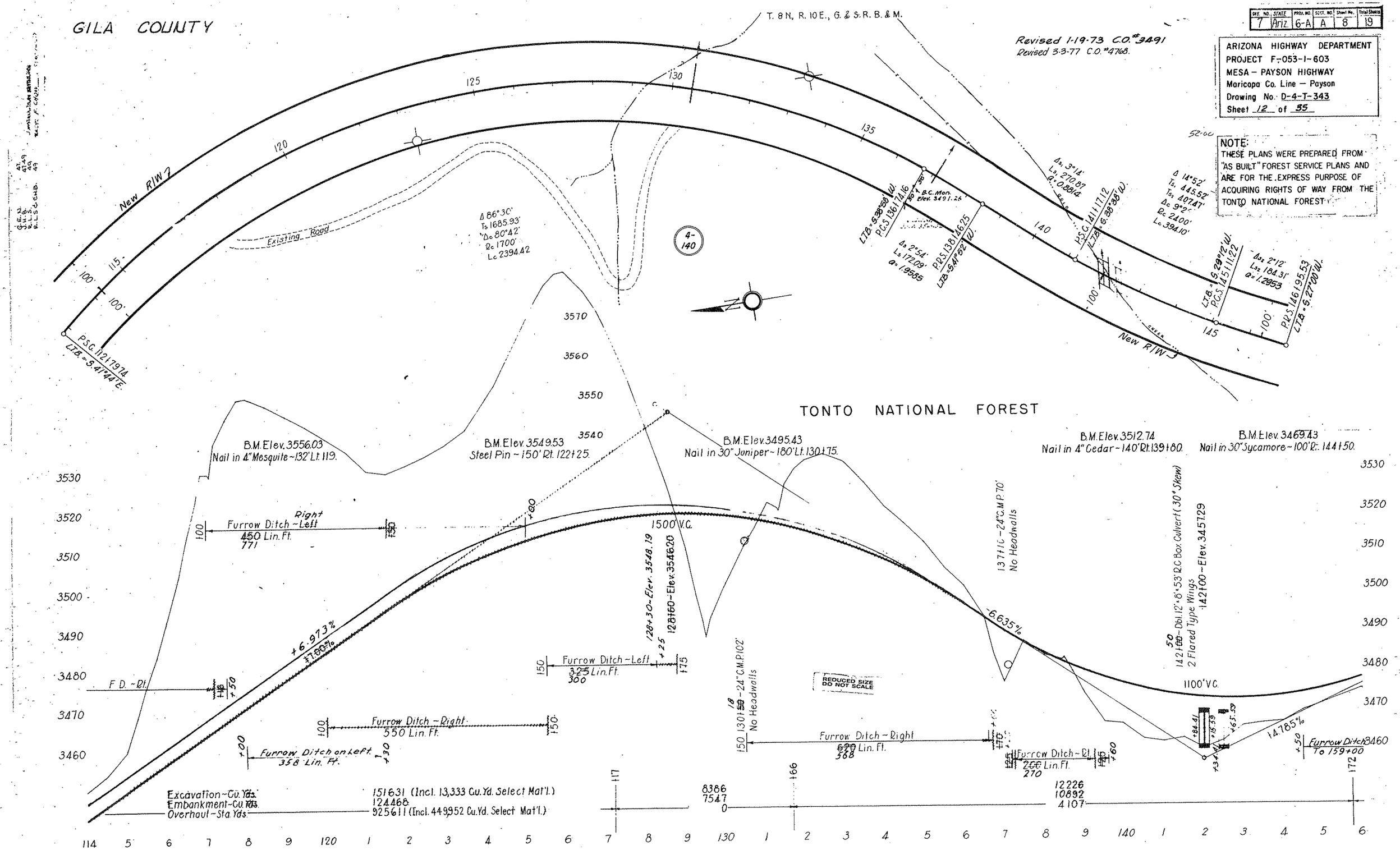

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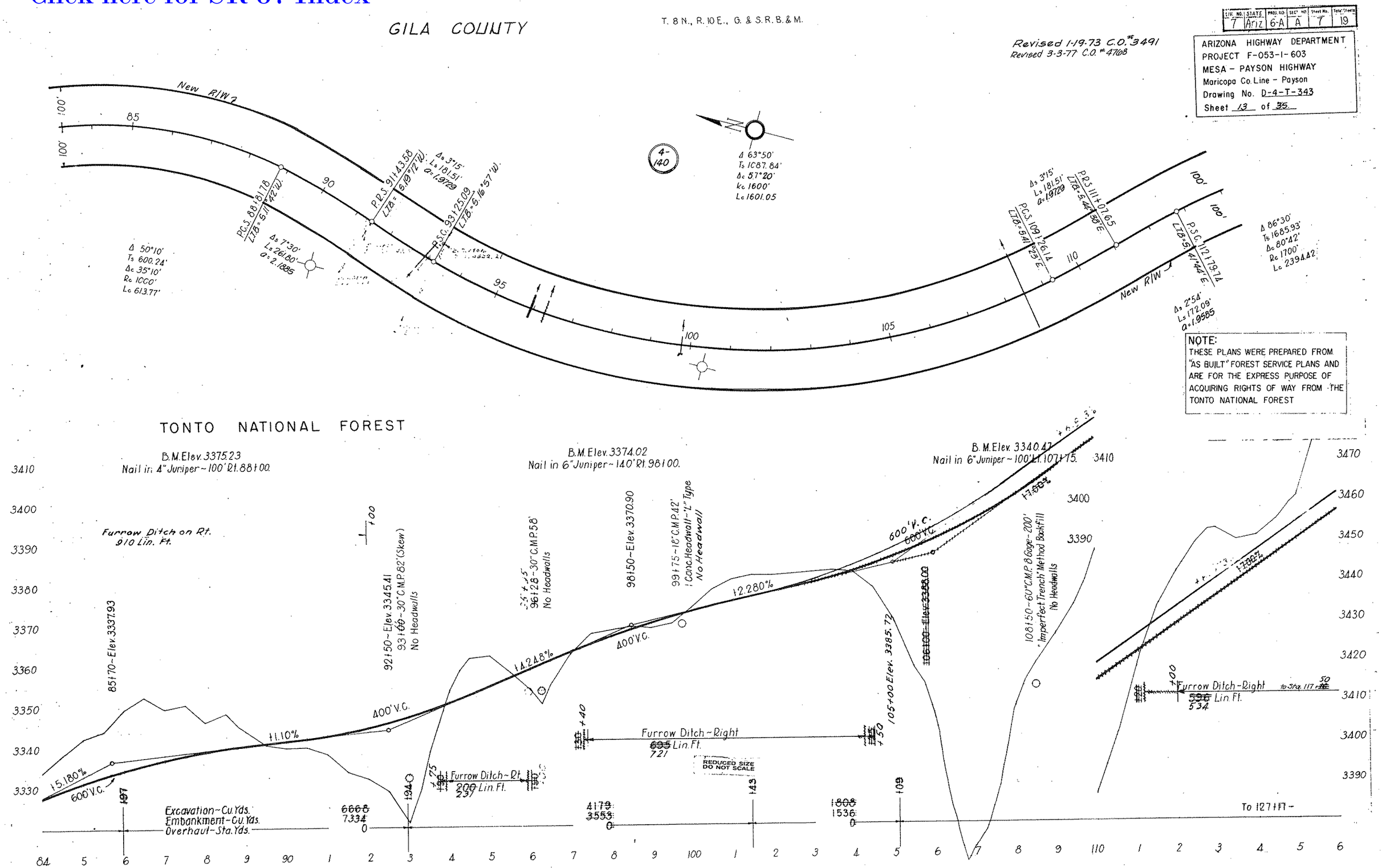

TONTO NATIONAL FOREST

T. 8 N., R. 10 E., G. & S. R. B. & M.

GILA COUNTY

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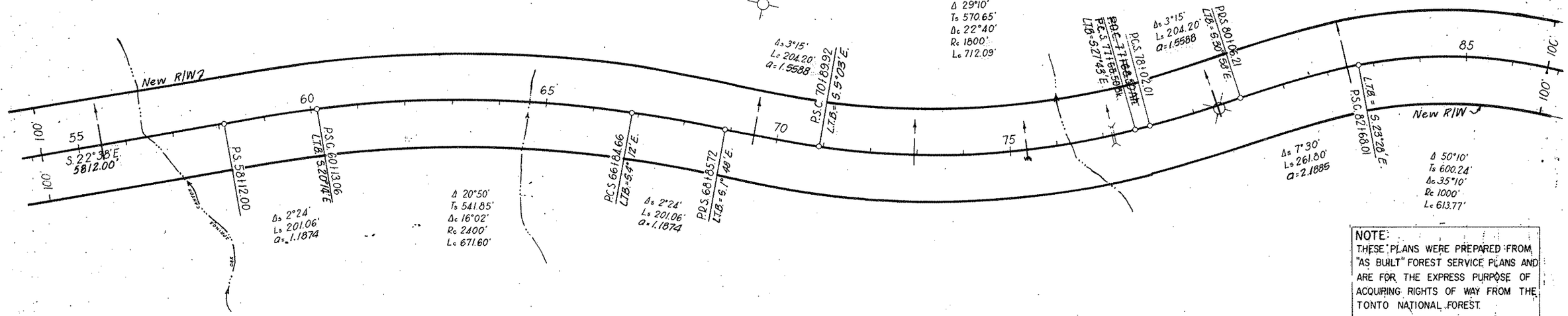

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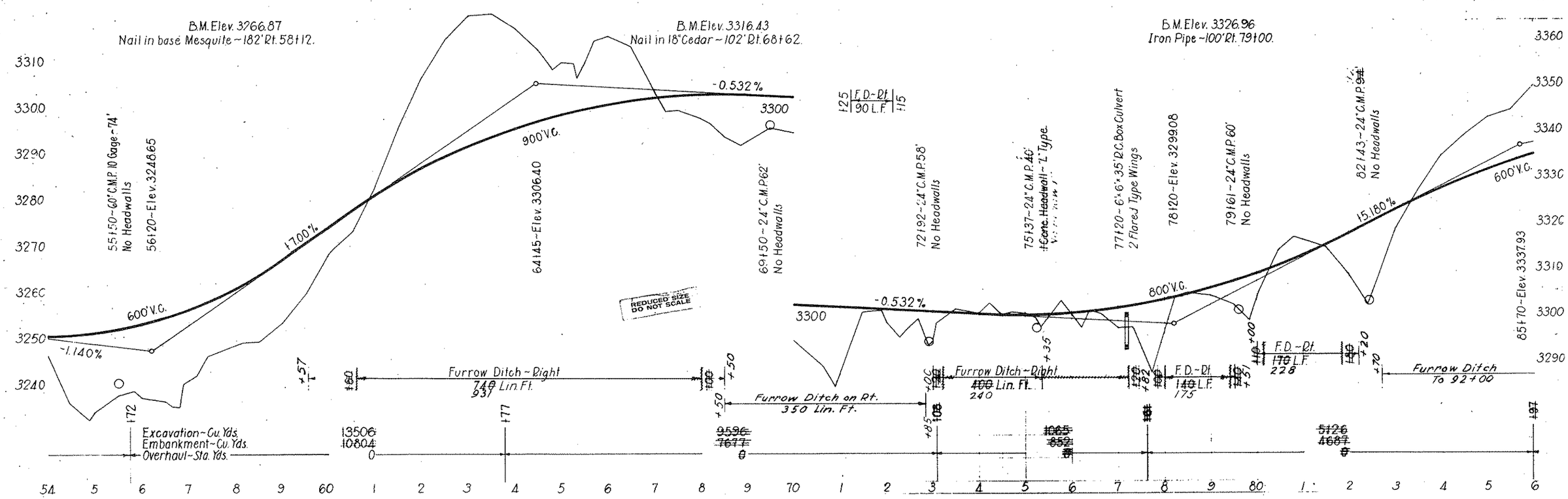

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T. 8 N., R. 10 E., G. & S. R. B. & M.

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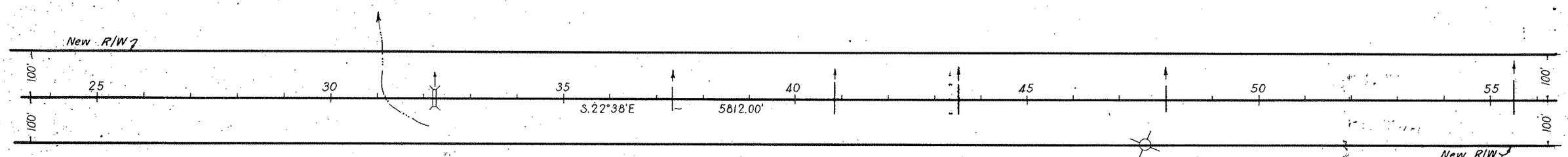

TONTO NATIONAL FOREST

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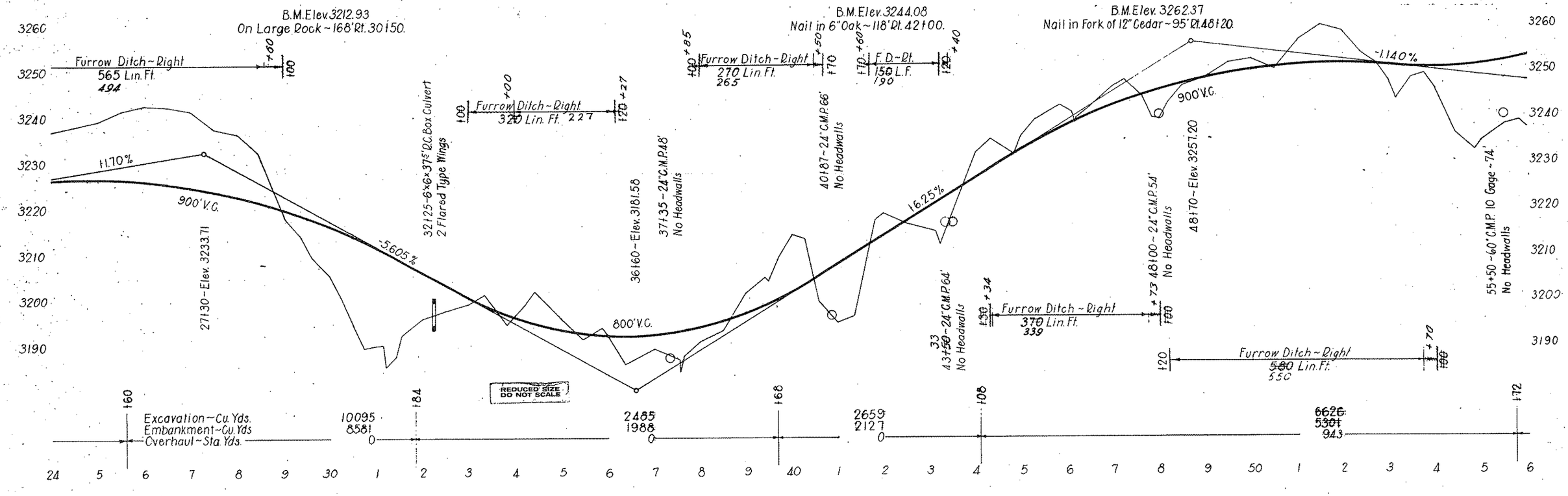

GILA COUNTY

T. 8 N., R. 10 E., G. & S. R. B. & M.

TONTO NATIONAL FOREST

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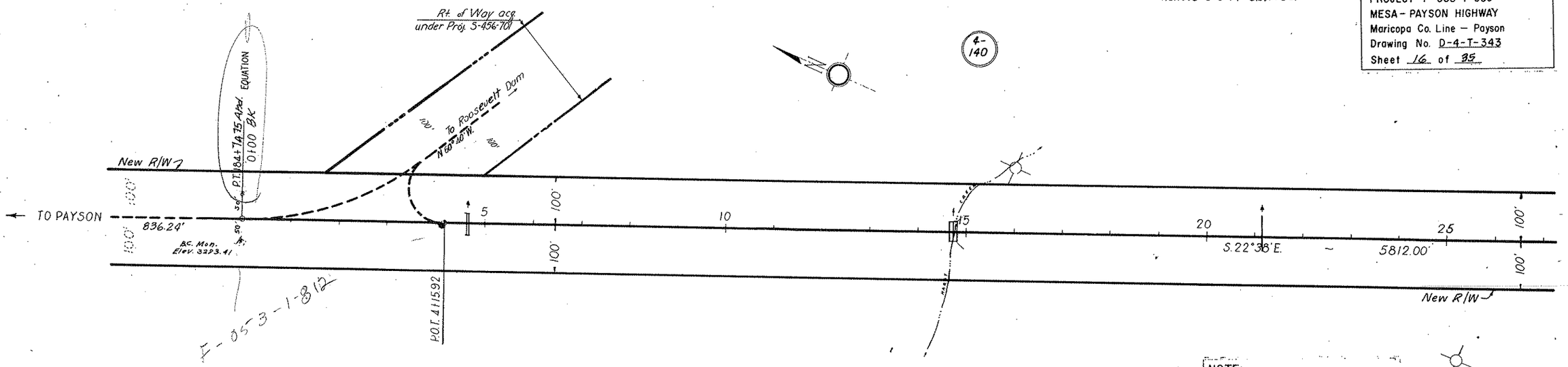
GLENN E. NELSON 1947
J. L. STEARNEY 1949
H. E. SCHERBERGER 1949
DESIGNED 1949
PLANS CH'CK'D
PROFILE



NOTE: THE SPIRAL CURVE USED ON THIS PROJECT IS THE TALBOT SPIRAL.

NOTE:
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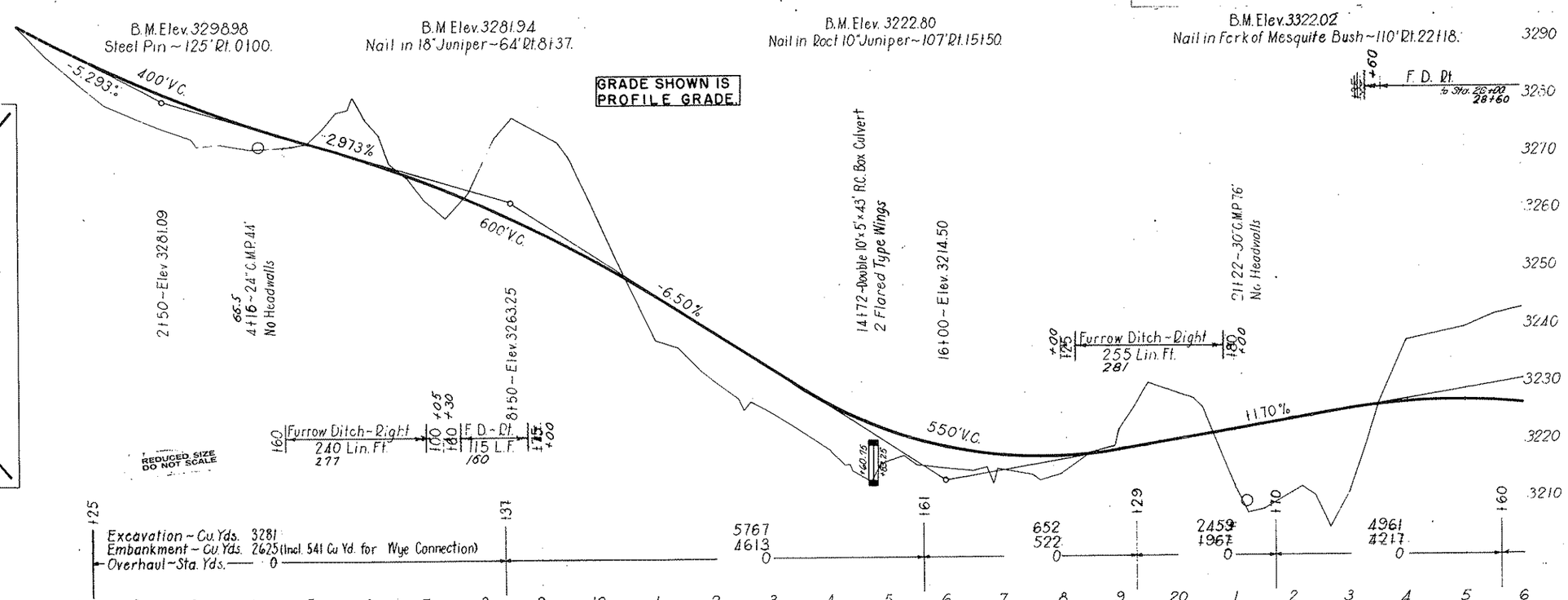
GRADE SHOWN IS PROFILE GRADE.



REDUCED SIZE DO NOT SCALE

Excavation ~ Cu. Yds. 3281
Embankment ~ Cu. Yds. 2625 (Incl. 541 Cu. Yd. for Wye Connection)
Overhaul ~ Sta. Yds. — 0

Station	Excavation	Embankment	Overhaul
125			
137	5767	4613	0
161	652	522	0
129	2459	1967	0
170	4961	4217	0
160			

GENERAL NOTES

CLEARING AND GRUBBING to be performed without direct compensation.

EMBANKMENT materials to be placed in accordance with Case 3, Subsection 29-3.5 of F P-41.

FINISHING EARTH GRADED ROADS to be performed Sta. 1+25.57 to Sta. 164+43.8.

METAL GUIDE POSTS to be placed as follows:

Station	to Station	Quantity
14+72	14+72	2
21+00	23+00	10
29+00	32+50	14
40+87	41+50	4
54+00	60+50	26
68+50	71+00	12
77+20	78+20	6
82+00	83+00	6
89+00	94+00	16
105+00	110+50	24
129+00	130+50	8
136+00	143+00	24
159+25	160+25	6

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Revised 3-3-77 C.O.# 4768.

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7	Ariz.	[illegible]	1	4	35

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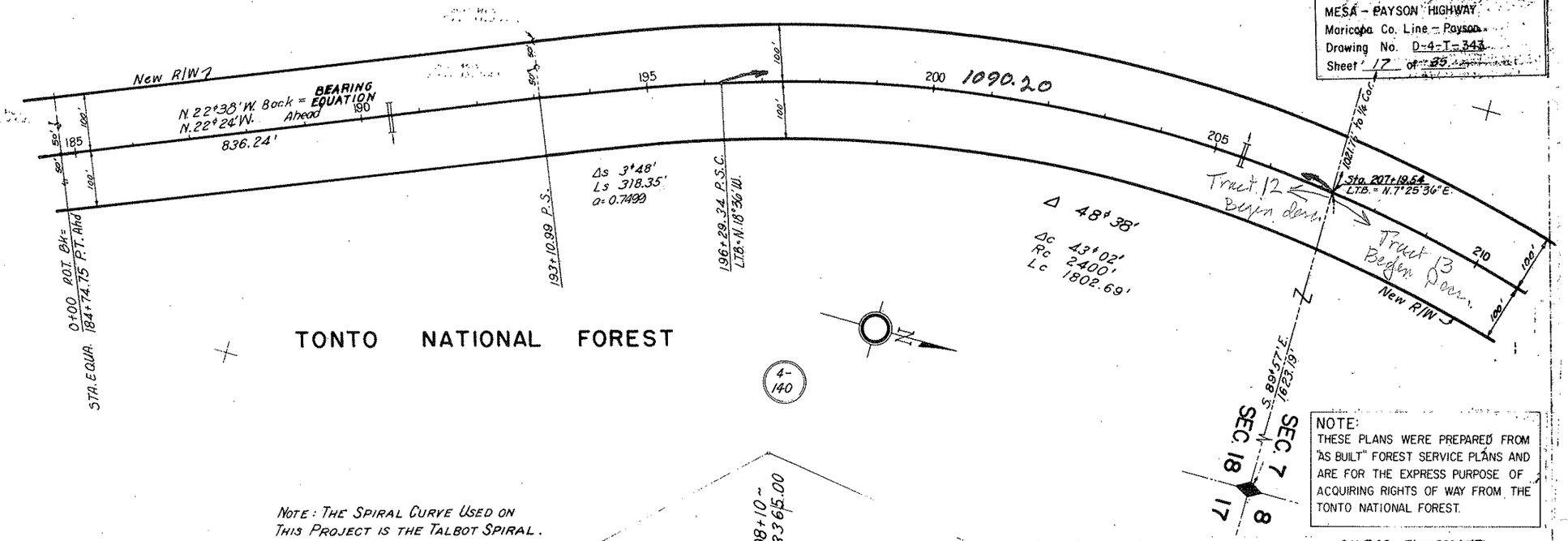
Drawing No. D-4-T-343
Sheet 17 of 35



NOTE:
THESE PLANS WERE PREPARED FROM "AS BUILT" FOREST SERVICE PLANS AND ARE FOR THE EXPRESS PURPOSE OF ACQUIRING RIGHTS OF WAY FROM THE TONTO NATIONAL FOREST.

NOTE: THE SPIRAL CURVE USED ON THIS PROJECT IS THE TALBOT SPIRAL.

B.M. #19 ~ Elev. 3277.47
Nail in Juniper 176' Lt.
Sta. 179+30

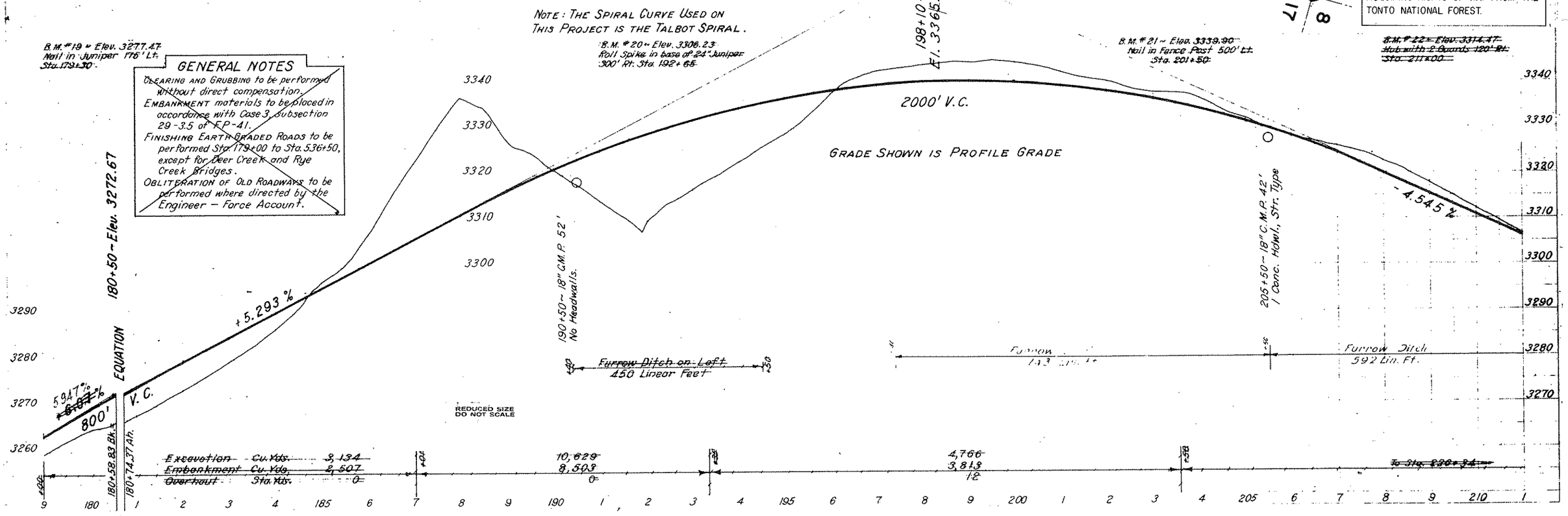
B.M. #20 ~ Elev. 3306.23
Roll Spike in base of 24" Juniper
300' Rt. Sta. 192+65

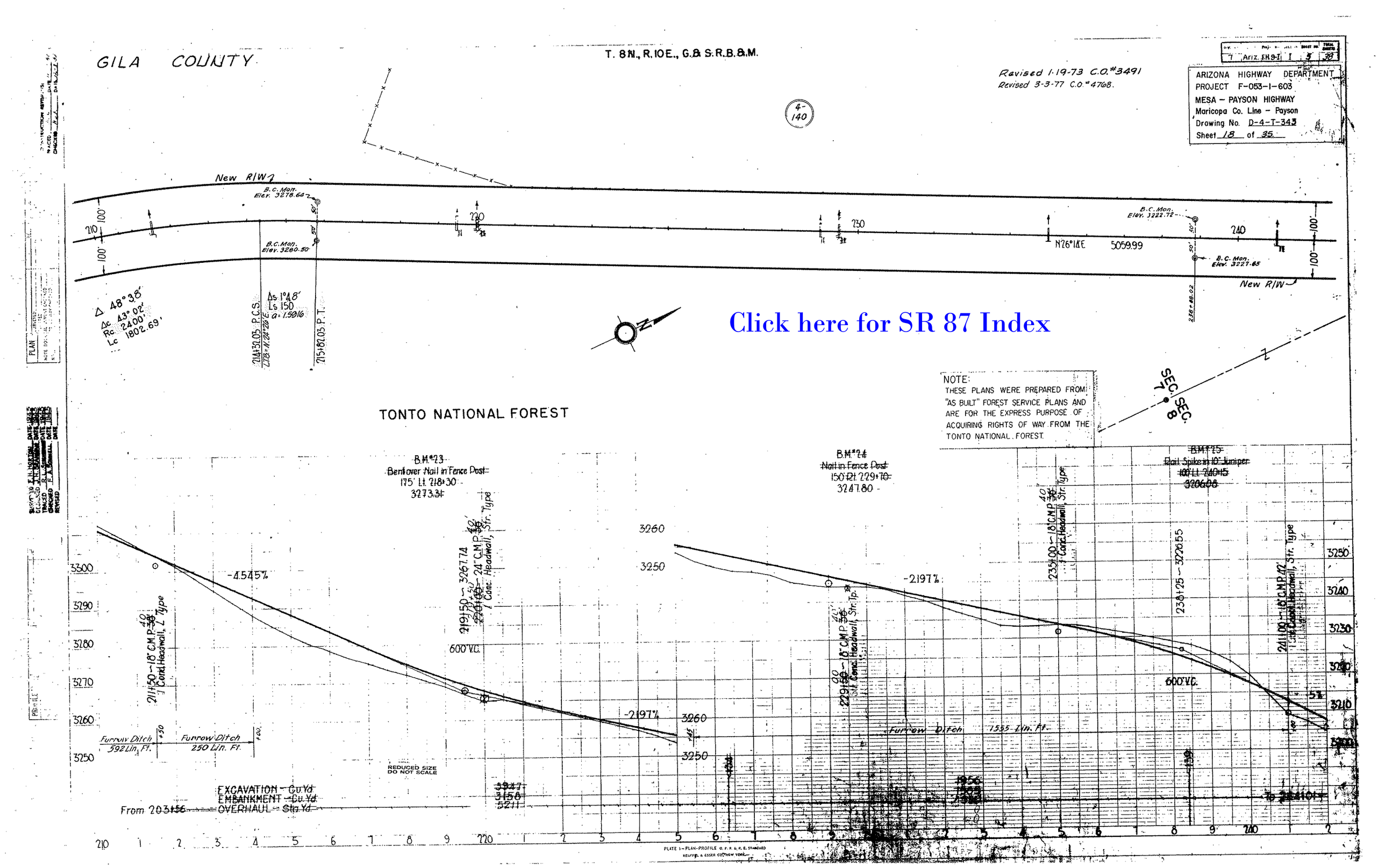
B.M. #21 ~ Elev. 3339.90
Nail in Fence Post 500' Lt.
Sta. 201+50

~~B.M. #22 ~ Elev. 3314.47~~
~~Hub with 2 Guards 120' Rt.~~
~~Sta. 211+00~~

GENERAL NOTES

CLEARING AND GRUBBING to be performed without direct compensation.
EMBANKMENT materials to be placed in accordance with Case 3, Subsection 29-3.5 of FP-41.
FINISHING EARTH GRADED ROADS to be performed Sta. 179+00 to Sta. 536+50, except for Deer Creek and Rye Creek Bridges.
OBLITERATION OF OLD ROADWAYS to be performed where directed by the Engineer — Force Account.




GILA COUNTY
T. 8N., R.10E., G.& S.R.B.&M.
Revised 1-19-73 C.O.#3491
Revised 3-3-77 C.O.#4768.
ARIZONA HIGHWAY DEPARTMENT
PROJECT F-053-1-603
MESA - PAYSON HIGHWAY
Maricopa Co. Line - Payson
Drawing No. D-4-T-343
Sheet 18 of 35
New R/W
B.C. Mon. Elev. 3278.64
B.C. Mon. Elev. 3280.50
B.C. Mon. Elev. 3222.72
B.C. Mon. Elev. 3227.65
N26°14'E 5059.99
Δ 48°38'
Δc 43°02'
Rc 2400'
Lc 1802.69'
Δs 1°48'
Ls 150
a=1.5916
214+32.03 P.C.S.
215+82.03 P.T.
Click here for SR 87 Index
NOTE:
THESE PLANS WERE PREPARED FROM "AS BUILT" FOREST SERVICE PLANS AND ARE FOR THE EXPRESS PURPOSE OF ACQUIRING RIGHTS OF WAY FROM THE TONTO NATIONAL FOREST.
SEC. 7
SEC. 8
TONTO NATIONAL FOREST
B.M.#23
Bentover Nail in Fence Post
175' Lt. 218+30
3273.31
B.M.#24
Nail in Fence Post
150' Rt. 229+70
3247.80
B.M.#25
Rail Spike in 10" Juniper
100' Lt. 240+15
3206.08
-4.545%
-2.197%
600' V.C.
Furrow Ditch 592 Lin. Ft.
Furrow Ditch 250 Lin. Ft.
Furrow Ditch 1555 Lin. Ft.
REDUCED SIZE DO NOT SCALE
EXCAVATION - Cu.Yd.
EMBANKMENT - Cu.Yd.
OVERHAUL - Sta.Yd.
From 203+56
To 244+01
PLATE 1 - PLAN-PROFILE O.P.R.&R.E. STANDARD
KEUFFEL & ESSER CO. NEW YORK

GILA COUNTY

T.8N., R.10E., G.&S.R.B.&M.

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ARIZONA HIGHWAY DEPARTMENT
PROJECT F-053-1-603
MESA - PAYSON HIGHWAY
Maricopa Co. Line - Payson
Drawing No. D-4-T-343
Sheet 19 of 35

PROJ. NO.	SECTION	SHEET NO.	TOTAL SHEETS
FH 9-1	1	6	38

Revised 1-19-73 C.O.#3491
Revised 3-3-77 C.O.#4768.

MILLARD LIGON
R/W Deed filed for Record 8-12-49 Book 66, page 514 of the Official Records of Gila County, Arizona.

DEER CREEK

N.0°07'E 1674.92' ℄ to Sec. Cor.

965.08' ℄ to 1/4 Cor.

825.38' ℄ to Sec. Cor.

BAR T BAR Ranch

New R/W

N26°14'E 5059.99

SEC. 7 SEC. 8

Mon.

Airport

Bike

Sta. 265+49.14

R/W Line

R/W Mon.

Cattlerun

SEC. 5 SEC. 8

Δ 14°21'L
R 3800
T 478.51
L 951.73

NOTE:
THESE PLANS WERE PREPARED FROM "AS BUILT" FOREST SERVICE PLANS AND ARE FOR THE EXPRESS PURPOSE OF ACQUIRING RIGHTS OF WAY FROM THE TONTO NATIONAL FOREST

TONTO NATIONAL FOREST

4-140

BM#26
Wooden Hub with Guards
125' Rt. 250+40
3172.80

BM#27
Rail Spike in fork of 12" Juniper
110' Lt 261+25
3123.58

BM#28
Nail in base 18" Sycamore
100' Rt. 269+00
3089.87

-5%

248+00 ~ 3177.80

249+75 ~ 18" C.M.P. 36' 1 Conc. Headwall, Str. Type

600' V.C.

Furrow Ditch 300 Lin. Ft.

Furrow Ditch 750 Lin. Ft.

-28.38%

256+00 ~ 3155.10

257+00 ~ 18" C.M.P. 36' 40' 1 Conc. Headwall, L Type

261+00 ~ Standard 4 Unit Cattle Guard and Gate

-5.7%

265+75 ~ Rock and boulder dike Left. From chan. chg. 2006 C.Y.

Furrow Ditch on Rt. 100 Lin. Ft.

DEER CREEK BRIDGE
(See Sheets 16 to 19 for details)

269+00 ~ 3081.00
270+07 24"
269+50 ~ 18" C.M.P. 50'
No Headwalls.

1200' V.C.

+5.5%

Normal High Water

Channel Change ~ Elev. 3089.6

Beg. of Bridge Sta. 264+86.7

End of Bridge

REDUCED SIZE DO NOT SCALE

~~From 238+39~~

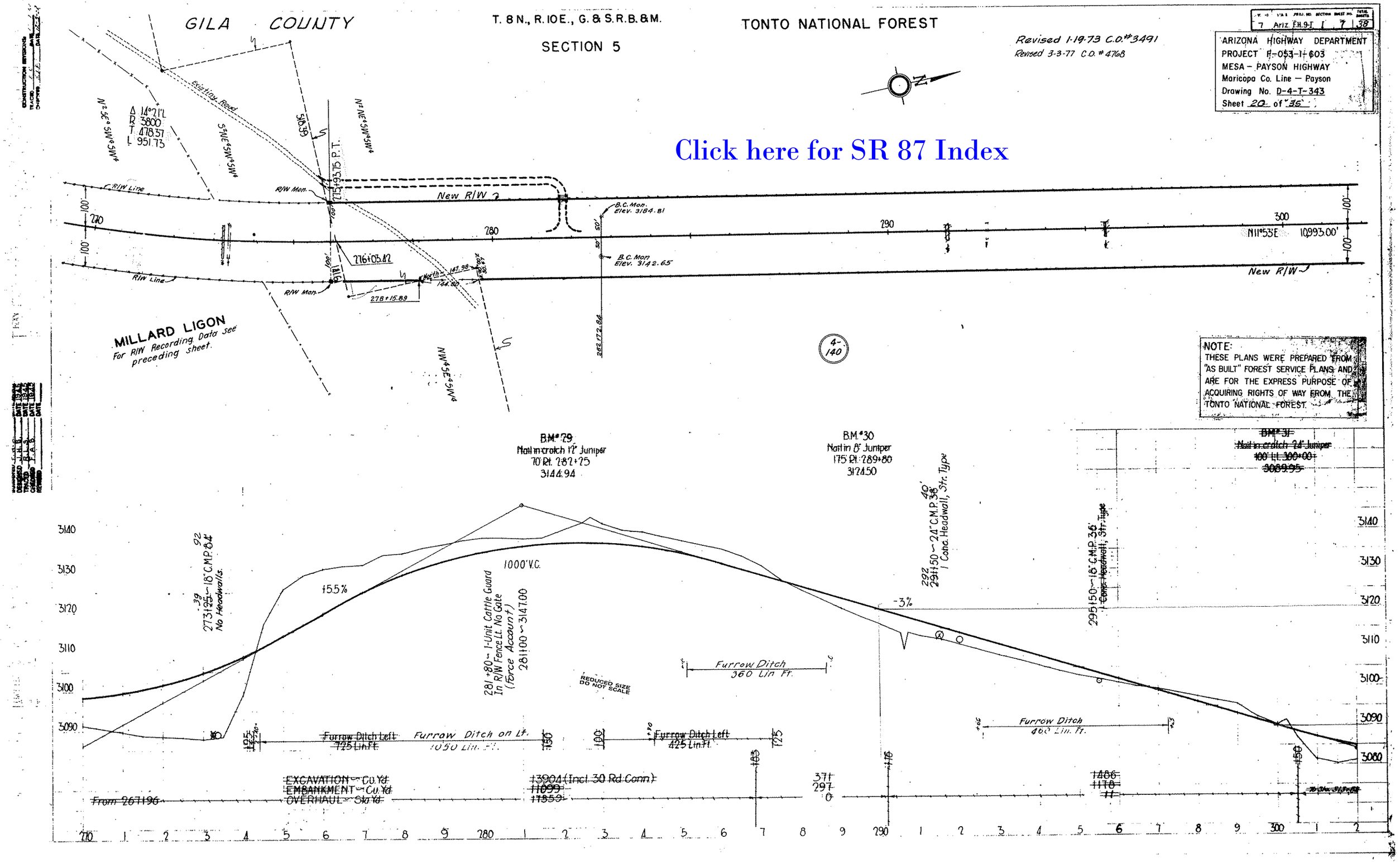
~~1518~~
~~1214~~

EXCAVATION ~ Cu. Yd.
EMBANKMENT ~ Cu. Yd.
OVERHAUL ~ Sta. Yd.

~~2892~~
~~2458~~
~~4063~~

~~3018 (Incl. 454 Cat. Gd. & Gate & 200 Chan. Chg.)~~
~~2707~~

~~To 286+83~~


GILA COUNTY
T. 8 N., R. 10 E., G. & S.R.B.&M.
SECTION 5
TONTO NATIONAL FOREST
Revised 1-19-73 C.O.#3491
Revised 3-3-77 C.O.#4768
ARIZONA HIGHWAY DEPARTMENT
PROJECT F-053-1-603
MESA - PAYSON HIGHWAY
Maricopa Co. Line - Payson
Drawing No. D-4-T-343
Sheet 20 of 35
Click here for SR 87 Index
Existing Road
New R/W
R/W Line
R/W Mon.
B.C. Mon. Elev. 3184.81
B.C. Mon. Elev. 3142.65
N11°53'E 10993.00'
MILLARD LIGON
For R/W Recording Data see preceding sheet.
NOTE:
THESE PLANS WERE PREPARED FROM "AS BUILT" FOREST SERVICE PLANS AND ARE FOR THE EXPRESS PURPOSE OF ACQUIRING RIGHTS OF WAY FROM THE TONTO NATIONAL FOREST.
B.M.#29
Nail in crotch 12" Juniper
70' Rt. 282+25
3144.94
B.M.#30
Nail in 8" Juniper
175' Rt. 289+80
3124.50
~~B.M.#31~~
~~Nail in crotch 24" Juniper~~
~~100' Lt. 300+00~~
~~3089.95~~
1000' V.C.
+5.5%
-3%
No Headwalls.
281+80 ~ 1-Unit Cattle Guard In R/W Fence Lt. No Gate (Force Account)
281+00 ~ 3147.00
REDUCED SIZE DO NOT SCALE
Furrow Ditch 360 Lin Ft.
Furrow Ditch 460 Lin. Ft.
Furrow Ditch Left 725 Lin Ft.
Furrow Ditch on Lt. 1050 Lin. Ft.
Furrow Ditch Left 425 Lin Ft.
EXCAVATION ~ Cu. Yd.
EMBANKMENT ~ Cu. Yd.
OVERHAUL ~ Sta. Yd.
From 267+96
13904 (Incl. 30 Rd. Conn.)
11099
17859
371
297
0
1486
1178
11

GILA COUNTY

Click here for SR 87 Index

DIV.	STATE	PROJ. NO.	SECTION	SHEET NO.	TOTAL SHEETS
7	Ariz	F-H-9-1	1	8	38

ARIZONA HIGHWAY DEPARTMENT
PROJECT F-053-1-603
MESA – PAYSON HIGHWAY
Maricopa Co. Line – Payson
Drawing No. D-4-T-343
Sheet 21 of 35

Revised 1-19-73 C.O. #3491
Revised 3-3-77 C.O. #4768

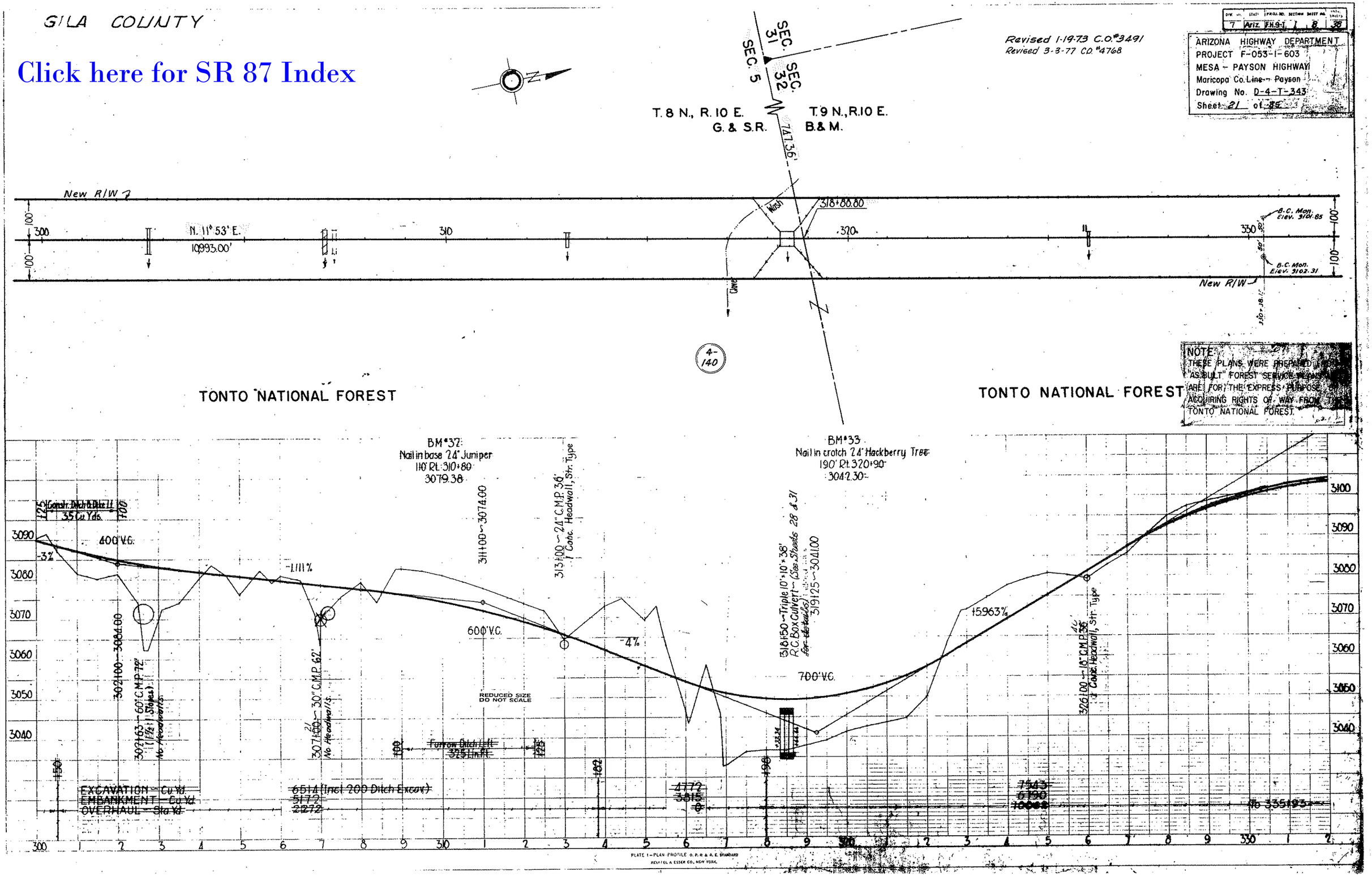


PLATE 1—PLAN-PROFILE O. P. R. & R. E. STANDARD
REUTTER & ESSER CO., NEW YORK

GILA COUNTY

T. 9 N., R. 10 E., G.& S.R.B.&M.

SECTION 32

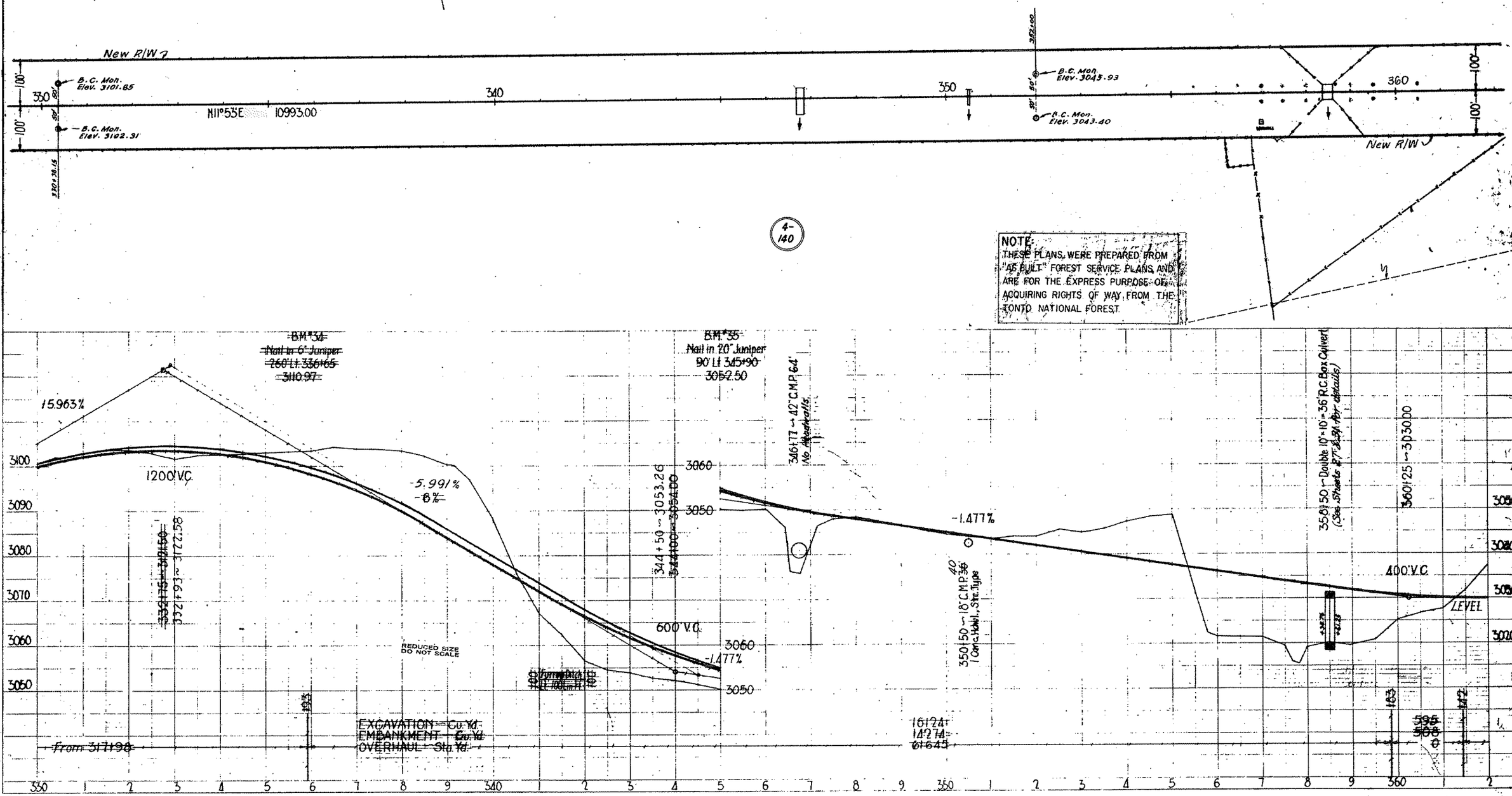
Click here for SR 87 Index

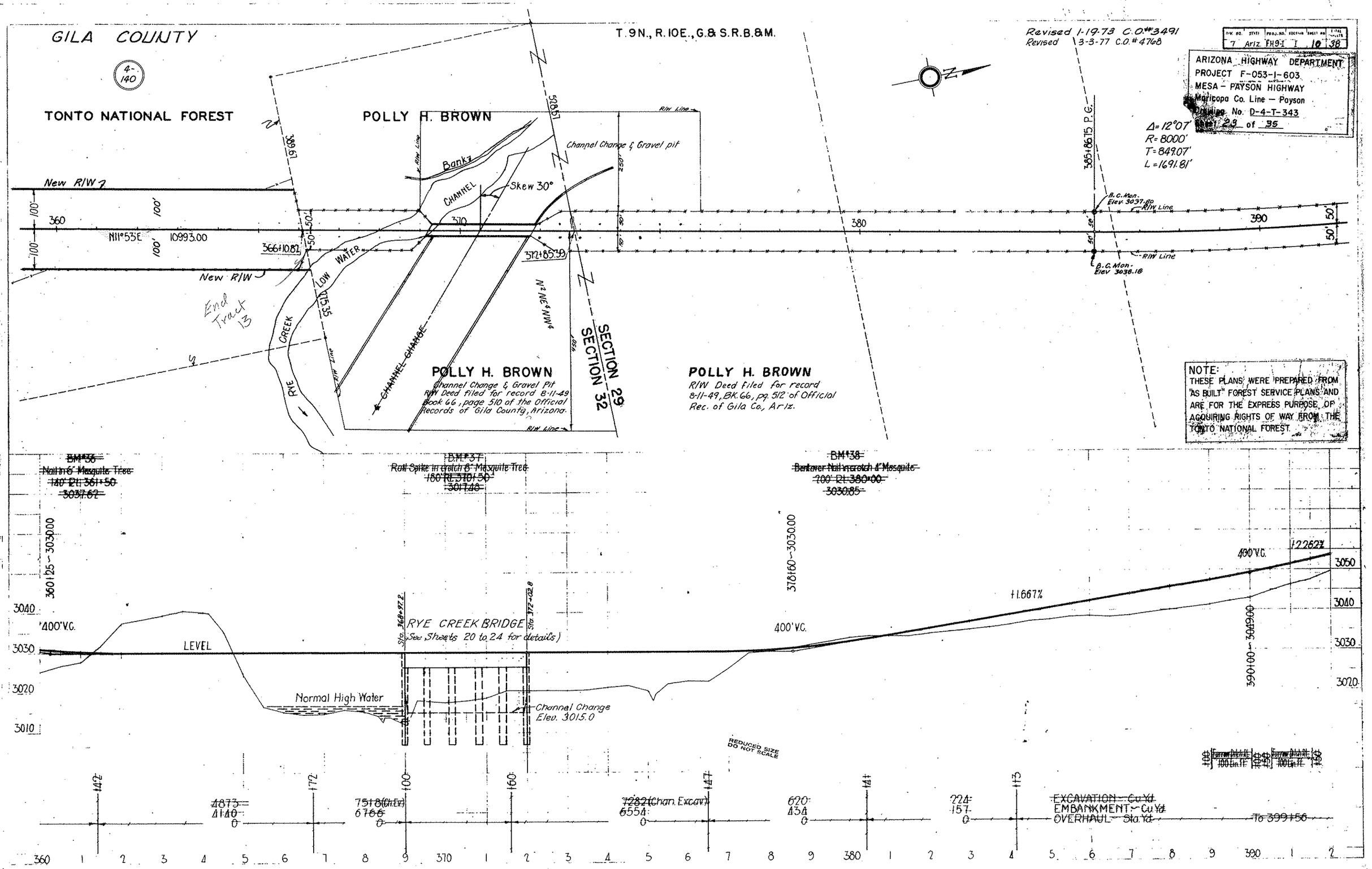
Revised 1-19-73 C.O.#3491
Revised 3-3-77 C.O.# 4768.

TONTO NATIONAL FOREST

BRIDGE NO.	STATE	FEDERAL AID PROJECT NO.	SECTION	SHEET NO.	TOTAL SHEETS
7	ARIZ	BH-56	1	9	38

ARIZONA HIGHWAY DEPARTMENT
PROJECT [illegible]
MESA - PAYSON HIGHWAY
Maricopa Co. Line — Payson
Drawing No. D-4-T-343
Sheet 22 of 36





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GILA COUNTY

T.9N., R.10E., G.&S.R.B.&M.

Revised 1-19-73 C.O.#3491
Revised 3-3-77 C.O.#4768

Div. No.	State	Project No.	Section	Sheet No.	Total Sheets
7	Ariz.	[illegible]	[illegible]	24	38

ARIZONA HIGHWAY DEPARTMENT
PROJECT F-[illegible]
MESA - PAYSON HIGHWAY
Maricopa Co. Line - Payson
Drawing No. D-4-T-343
Sheet 24 of 35

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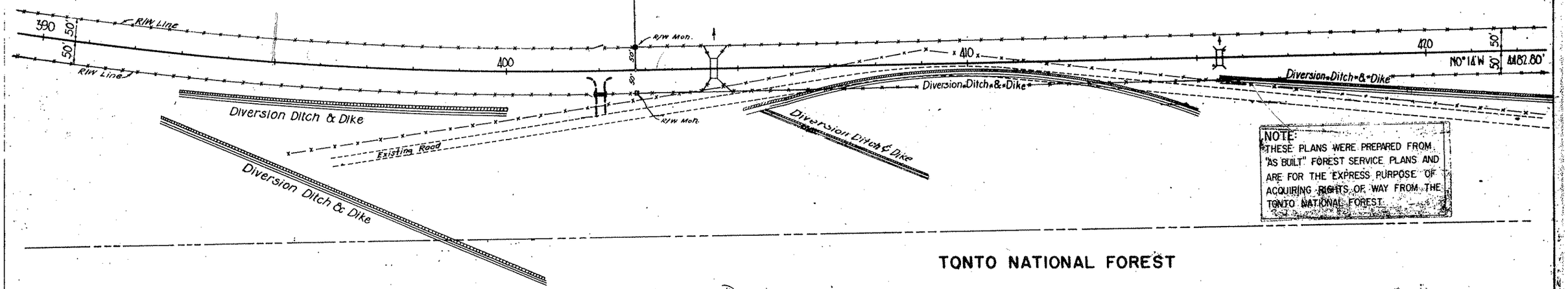
SECTION 29

POLLY H. BROWN
For R/W Recording Data see preceding sheet.

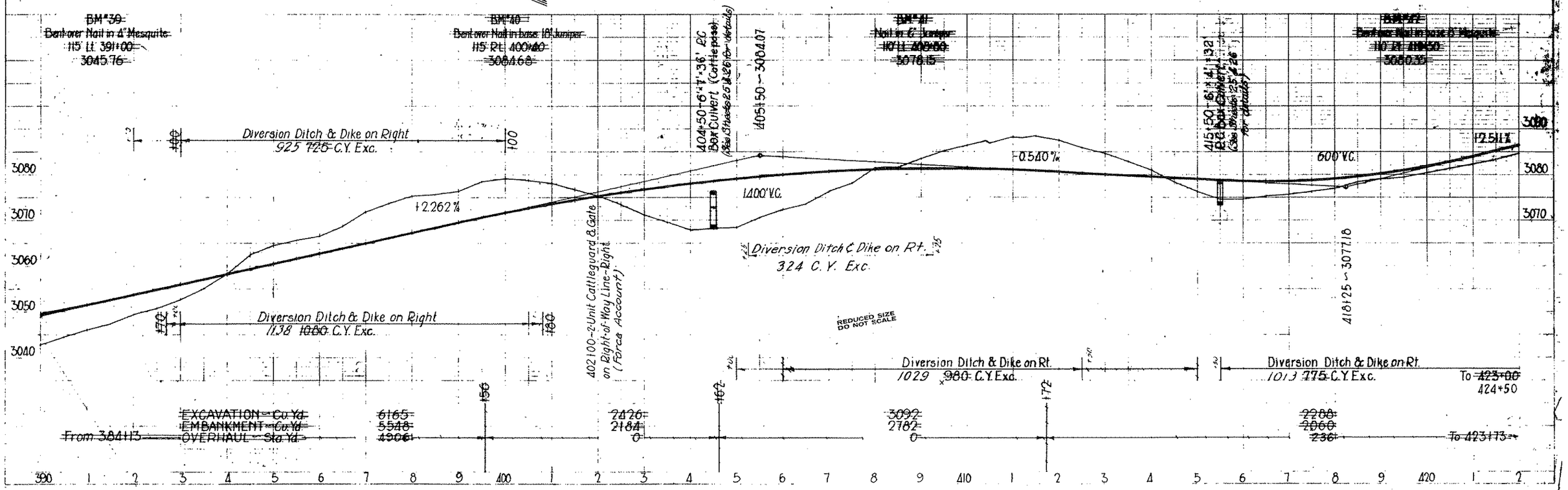
Δ 12°07'
R 8000'
T 849.07'
L 1691.81'

402+78.56 P.T.

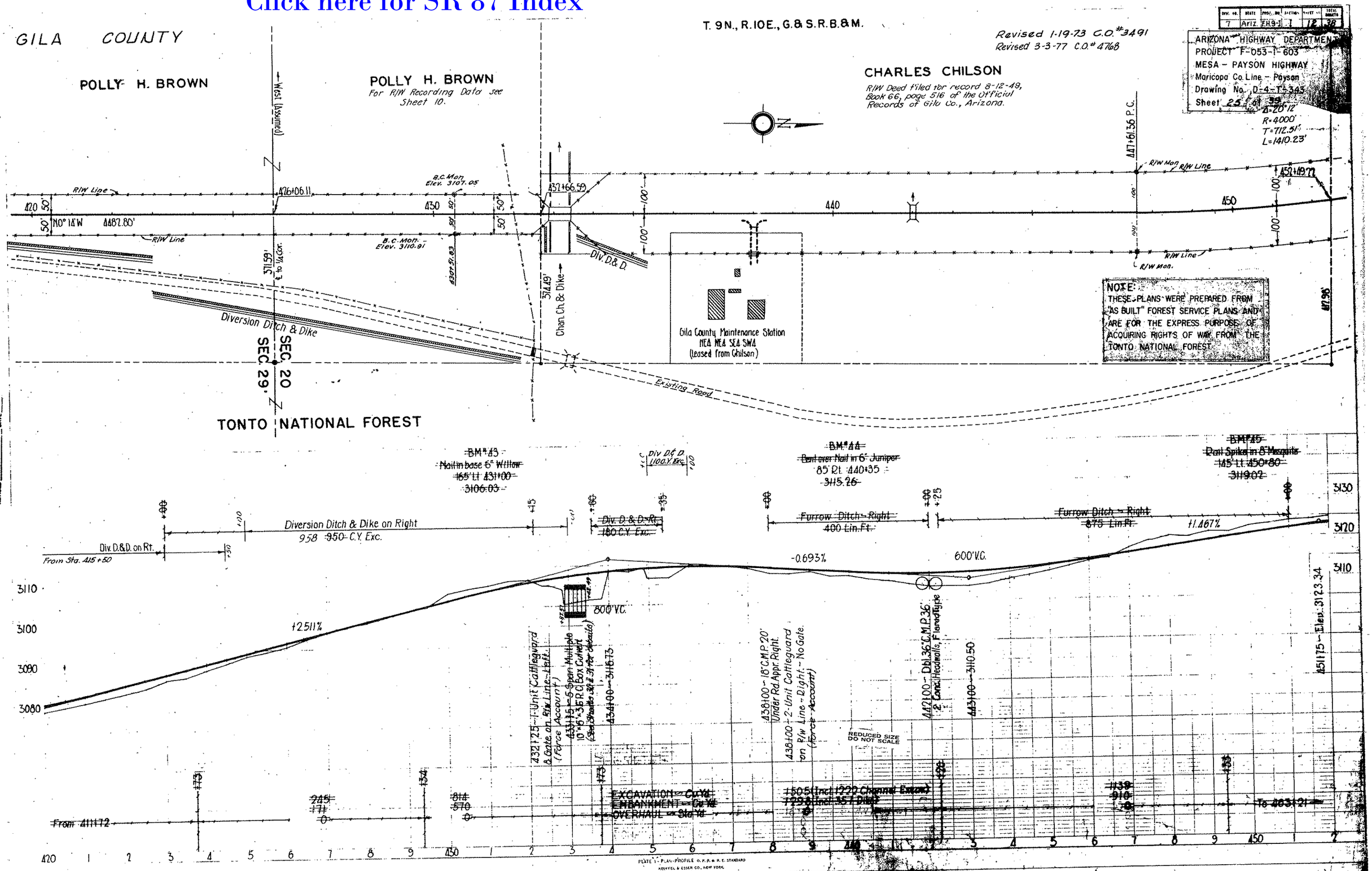


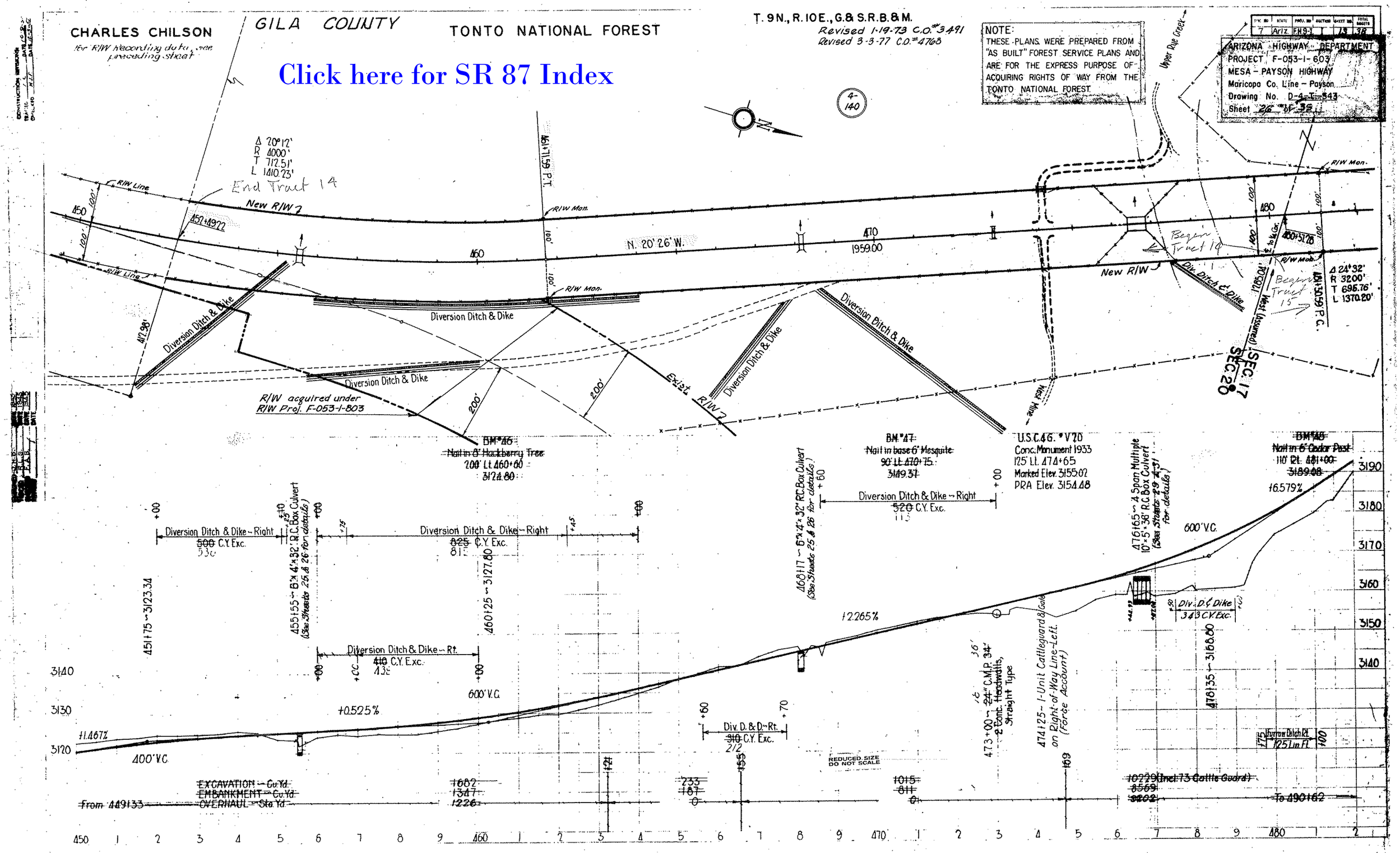
NOTE:
*THESE PLANS WERE PREPARED FROM "AS BUILT" FOREST SERVICE PLANS AND ARE FOR THE EXPRESS PURPOSE OF ACQUIRING RIGHTS OF WAY FROM THE TONTO NATIONAL FOREST.

TONTO NATIONAL FOREST

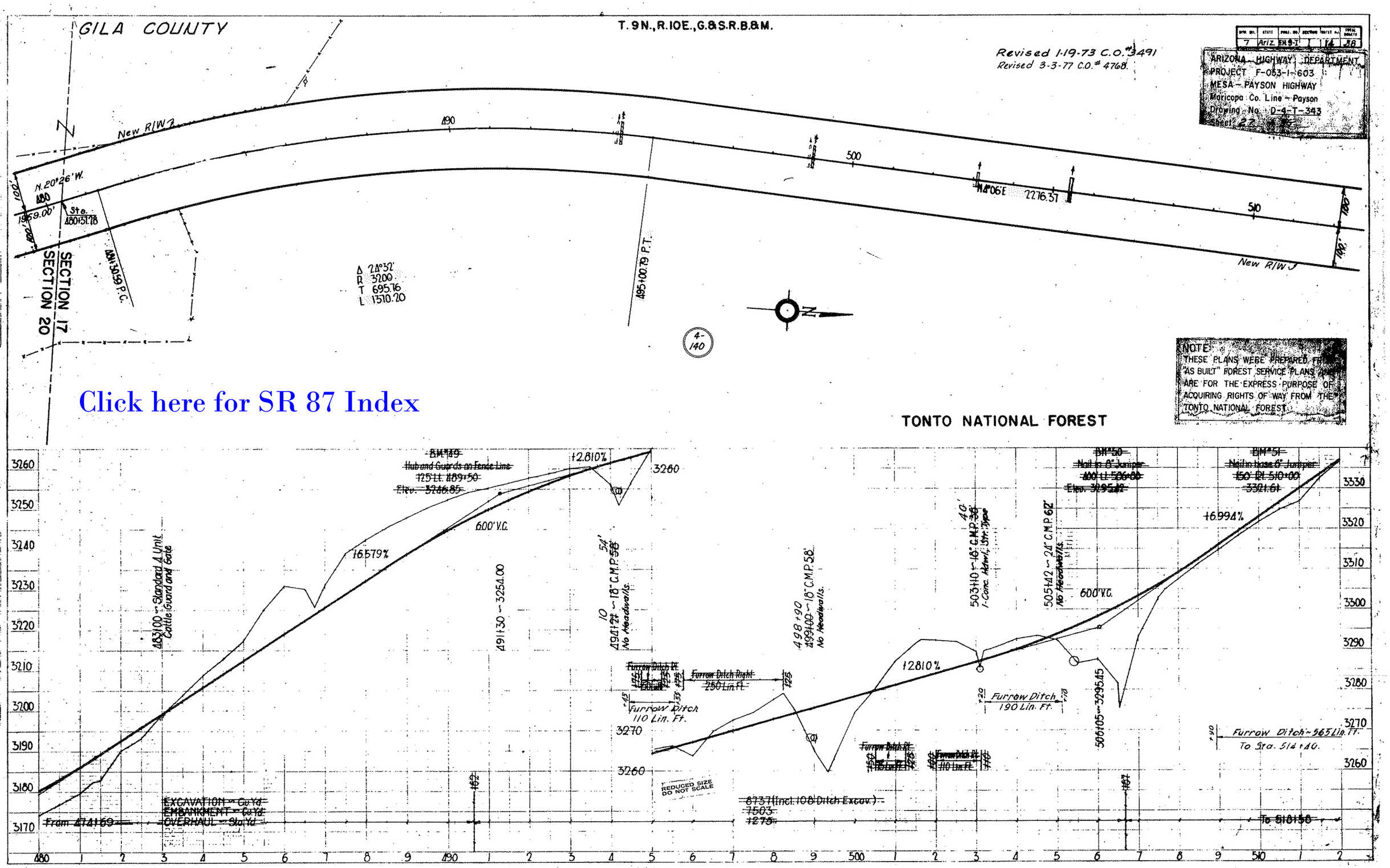


Click here for SR 87 Index





Click here for SR 87 Index



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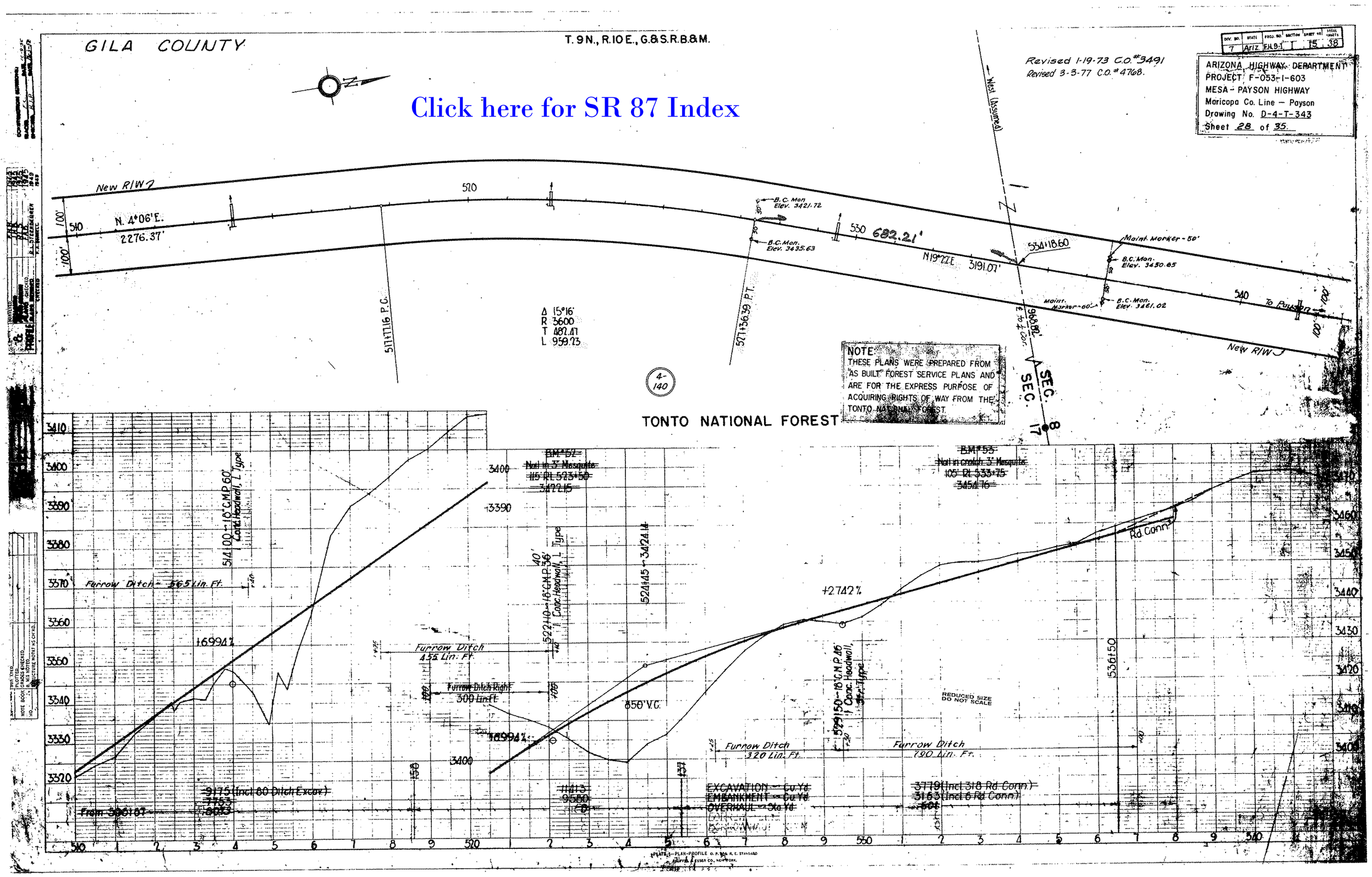

GILA COUNTY
T. 9 N., R. 10 E., G.&S.R.B.&M.
Click here for SR 87 Index
Revised 1-19-73 C.O. #3491
Revised 3-3-77 C.O. #4768.
ARIZONA HIGHWAY DEPARTMENT
PROJECT F-053-1-603
MESA - PAYSON HIGHWAY
Maricopa Co. Line — Payson
Drawing No. D-4-T-343
Sheet 28 of 35
New R/W
N. 4°06'E.
2276.37'
682.21'
N19°22'E 3191.07'
Δ 15°16'
R 3600
T 482.47
L 959.23
511+77.16 P.C.
527+36.39 P.T.
B.C. Mon. Elev. 3421.72
B.C. Mon. Elev. 3435.63
Maint. Marker - 50'
B.C. Mon. Elev. 3450.65
B.C. Mon. Elev. 3461.02
To Payson
West (Assumed)
SEC. 17
SEC. 8
NOTE:
THESE PLANS WERE PREPARED FROM "AS BUILT" FOREST SERVICE PLANS AND ARE FOR THE EXPRESS PURPOSE OF ACQUIRING RIGHTS OF WAY FROM THE TONTO NATIONAL FOREST.
TONTO NATIONAL FOREST
4-140
514+00 - 18" C.M.P. 60' Conc. Headwall, L Type
Furrow Ditch - 565 Lin. Ft.
16.994%
Furrow Ditch 455 Lin. Ft.
Furrow Ditch Right 300 Lin. Ft.
522+10 - 18" C.M.P. 36' Conc. Headwall, L Type
524+45 - 34.24.14
850' V.C.
+2.742%
529+50 - 18" C.M.P. 36' Conc. Headwall, L Type
Furrow Ditch 320 Lin. Ft.
Furrow Ditch 790 Lin. Ft.
Rd. Conn.
536+50
REDUCED SIZE DO NOT SCALE
BM #52 Nail in 3" Mesquite 115' Rt. 523+50 3472.15
BM #53 Nail in crotch 3" Mesquite 105' Rt. 533+75 3454.76
9175 (Incl. 80 Ditch Excav.)
3763
8033
From 506+67
11413
9580
(B)
EXCAVATION - Cu. Yd.
EMBANKMENT - Cu. Yd.
OVERHAUL - Sta. Yd.
3779 (Incl. 318 Rd. Conn.)
3153 (Incl. 6 Rd. Conn.)
PLATE 1 - PLAN-PROFILE O. P. 304 R. E. STANDARD
Alfred L. Ritter & Lesser Co., Newark.

GILA COUNTY

TONTO NATIONAL FOREST

Revised 1-19-73 C.O. 3491
Revised 3-3-77 C.O. # 4768

SHEET 4 OF 12

ARIZONA HIGHWAY DEPARTMENT
PROJECT F-053-1(603)
MESA - PAYSON HIGHWAY
Maricopa Co. Line - Payson
Drawing No. D44-1-343
Sheet 29 of 35

4-140

A 8°25'
R 10000
T 735.82
L 1468.99

TG 3594.27.46

New R/W

Mont. Marker - 60'
534118.60
B.C. Mon.
Elev. 3450.68
535
B.C. Mon.
Elev. 3481.02
Mont. Marker - 60'

540

N 19°22'E 3991.01' 2608.86'

550

B.C. Mon.
Elev. 3576.35
B.C. Mon.
Elev. 3592.34

560

New R/W

West (Inserted) 86.83'

8
17

Click here for SR 87 Index

NOTE:
THESE PLANS WERE PREPARED AS "AS BUILT" FOREST SERVICE PLANS AND ARE FOR THE EXPRESS PURPOSE OF ACQUIRING RIGHTS OF WAY FROM THE TONTO NATIONAL FOREST.

THE SPIRAL CURVE USED ON THIS PROJECT IS THE TALBOT SPIRAL.

GENERAL NOTES

CLEARING AND GRUBBING to be performed from Station 536+50 to Station 800+00 to widths indicated on typical sections and for channel changes and road approaches without direct compensation.

EMBANKMENT MATERIAL to be placed in accordance with subsection 29-3.3 "Layer Placing Without Rolling" (Case I) of FP-41 Specifications.

OBLITERATION OF OLD ROADWAY to be performed where directed by the Engineer - Force Account.

METAL GUIDE POSTS to be placed where directed.

GRADE SHOWN IS PROFILE GRADE

B.M. #54 - Elev. 3486.63
Nail in 4" Juniper 350' Rt 542+00

B.M. #55 - Elev. 3537.00
Bent-over nail in crotch 12" Juniper 200' Lt 552+10

B.M. Elev. 3601.13
Nail in 3" Mesquite 175' Rt 560+70

3530
3520
3510
3500
3490
3480
3470
3460

3530
3520
3550
3540

541+50 - 24" C.M.P. 48'
543+00 - Elev. 3475.00
549+50 - 24" C.M.P. 44'
553+00 - Elev. 3545.00
560+00 - 24" C.M.P. 98'

800' V.C.
400' V.C.

+7.000%
-12.742%
-6.000%

1½:1
1:1

Furrow Ditch Right
360 Lin Ft

Furrow Ditch Right
700 Lin Ft
740

150
+50

REDUCED SIZE
DO NOT SCALE

Excavation Cubic
Embankment Cubic
Overhaul Station

3415 (Incl 70 Ditch)
2908

1562 (Incl 143 Ditch)
14058
4102

540
550
560

PLATE 1

Drawn By E.L.W.
Checked By
1955
1956

SURVEYED
PLOTTED
DRAWN CHECKED
B. M.S. NOTED
STRUCTURE NOTE
NOTE ROOM
NO.

Click here for SR 87 Index

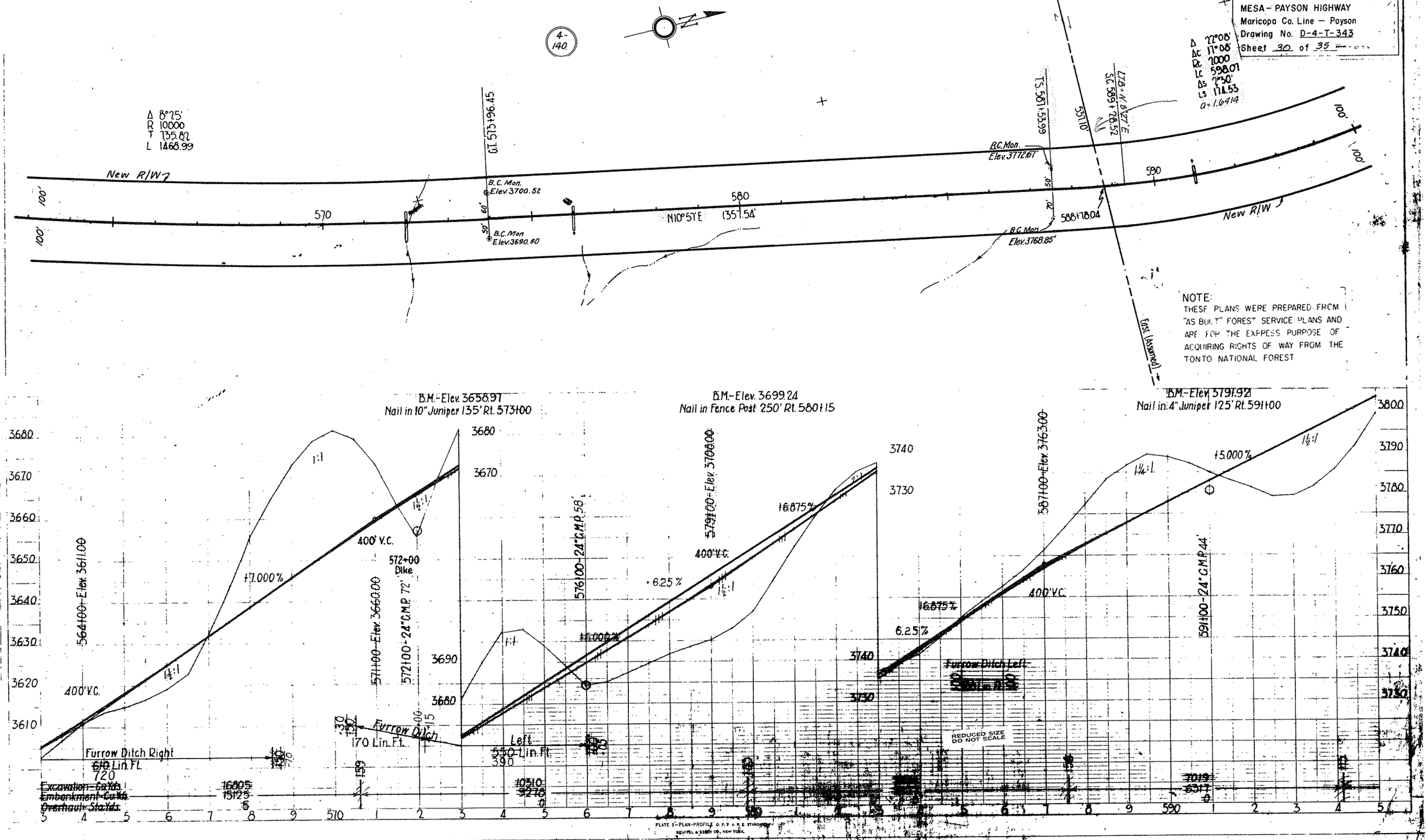
GILA COUNTY

TONTO NATIONAL FOREST

SHEET 8 OF 17

Revised 1-19-73 C.O.# 3491
Revised 3-3-77 C.O.# 4768

ARIZONA HIGHWAY DEPARTMENT
PROJECT F-053-1-603
MESA - PAYSON HIGHWAY
Maricopa Co. Line — Payson
Drawing No. D-4-T-343
Sheet 30 of 35



NOTE:
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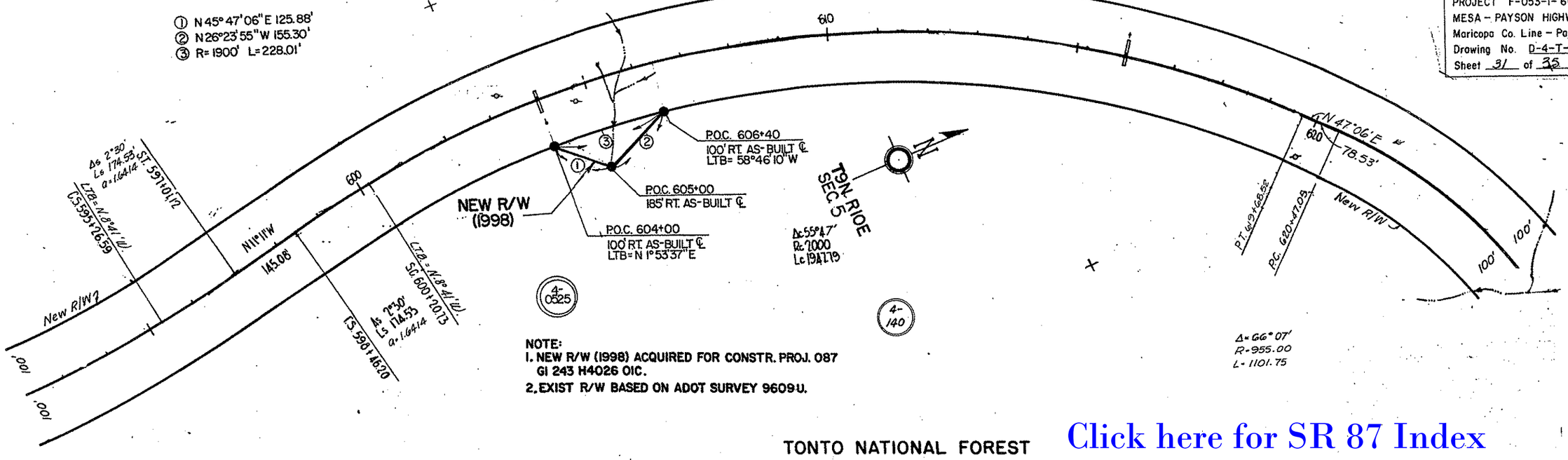
GILA COUNTY

Revised 1-19-73 C.O.#3491
Revised 3-3-77 C.O.#4768.

SHEET 6 OF 17

ARIZONA HIGHWAY DEPARTMENT
PROJECT F-053-1-603
MESA - PAYSON HIGHWAY
Maricopa Co. Line - Payson
Drawing No. D-4-T-343
Sheet 31 of 35

① N 45°47'06"E 125.88'
② N 26°23'55"W 155.30'
③ R= 1900' L=228.01'



NOTE:
1. NEW R/W (1998) ACQUIRED FOR CONSTR. PROJ. 087 GI 243 H4026 OIC.
2. EXIST R/W BASED ON ADOT SURVEY 9609U.

TONTO NATIONAL FOREST

Click here for SR 87 Index

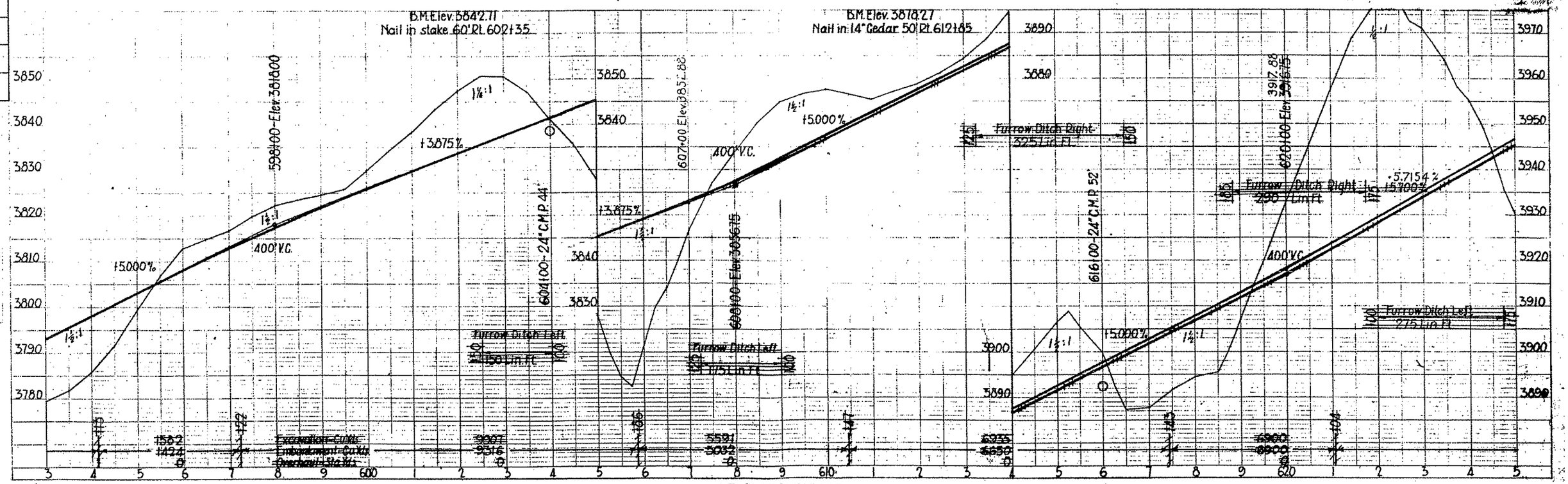
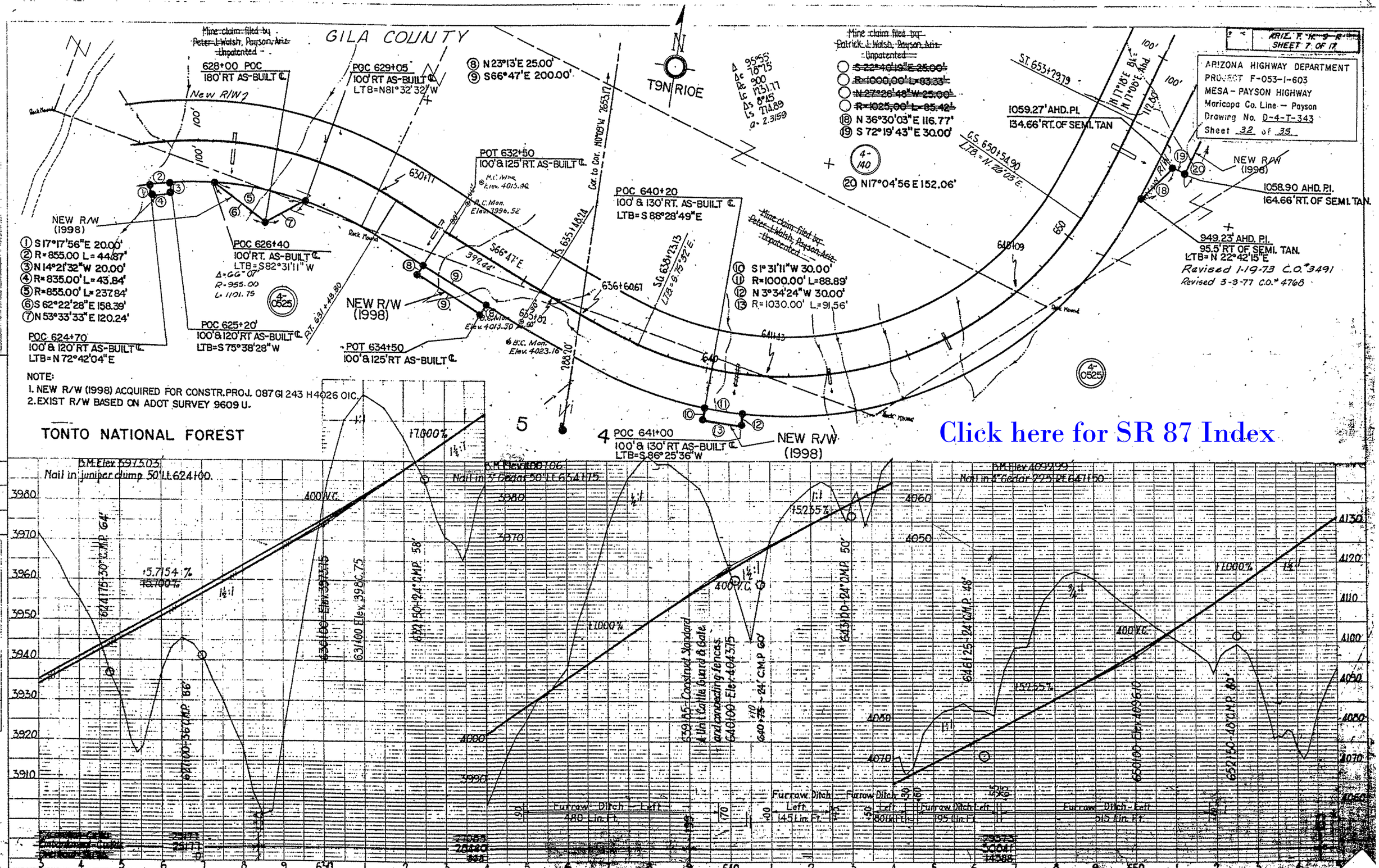


PLATE 1-PLAN-PROFILE

C.O. NO.	DATE	BY	DESCRIPTION
9283	11-13-98	E.L.G.	Added Per. 4-0525 & New R/W (1998) Rt. of AS-BUILT ℄.
"	"	"	

PLAN
PROFILE

Construction Revisions
Drawn By E.L.W. 1955
Checked By 1036


GILA COUNTY
ARIZ. F. H. 9 R.
SHEET 7 OF 17
ARIZONA HIGHWAY DEPARTMENT
PROJECT F-053-1-603
MESA - PAYSON HIGHWAY
Maricopa Co. Line - Payson
Drawing No. D-4-T-343
Sheet 32 of 35
T9N R10E
Mine claim filed by Peter J. Walsh, Payson, Ariz. Unpatented
628+00 POC
180' RT AS-BUILT ℄
POC 629+05
100' RT AS-BUILT ℄
LTB=N81°32'32"W
New R/W
NEW R/W (1998)
① S17°17'56"E 20.00'
② R=855.00 L=44.87'
③ N14°21'32"W 20.00'
④ R=835.00' L=43.84'
⑤ R=855.00' L=237.84'
⑥ S62°22'28"E 158.39'
⑦ N53°33'33"E 120.24'
POC 624+70
100' & 120' RT AS-BUILT ℄
LTB=N72°42'04"E
POC 626+40
100' RT. AS-BUILT ℄
LTB=S82°31'11"W
POC 625+20'
100' & 120' RT AS-BUILT ℄
LTB=S75°38'28"W
POT 632+50
100' & 125' RT. AS-BUILT ℄
POT 634+50
100' & 125' RT AS-BUILT ℄
POC 640+20
100' & 130' RT. AS-BUILT ℄
LTB=S88°28'49"E
POC 641+00
100' & 130' RT AS-BUILT ℄
LTB=S86°25'36"W
⑧ N23°13'E 25.00'
⑨ S66°47'E 200.00'
⑩ S1°31'11"W 30.00'
⑪ R=1000.00' L=88.89'
⑫ N3°34'24"W 30.00'
⑬ R=1030.00' L=91.56'
⑱ N36°30'03"E 116.77'
⑲ S72°19'43"E 30.00'
⑳ N17°04'56 E 152.06'
1059.27' AHD. PI.
134.66' RT. OF SEMI. TAN
1058.90 AHD. PI.
164.66' RT. OF SEMI. TAN.
949.23' AHD. PI.
95.5' RT OF SEMI. TAN.
LTB=N 22°42'15"E
Revised 1-19-73 C.O.# 3491
Revised 3-3-77 C.O.# 4768
NOTE:
1. NEW R/W (1998) ACQUIRED FOR CONSTR. PROJ. 087 GI 243 H4026 01C.
2. EXIST R/W BASED ON ADOT SURVEY 9609 U.
TONTO NATIONAL FOREST
Click here for SR 87 Index
B.M. Elev. 5973.03
Nail in juniper clump 50' Lt. 624+00.
B.M. Elev. 4007.06
Nail in 3" Cedar 50' Lt. 634+75
B.M. Elev. 4092.99
Nail in 4" Cedar 225' Rt. 647+50
Furrow Ditch - Left 480 Lin. Ft.
Furrow Ditch - Left 145 Lin. Ft.
Furrow Ditch - Left 195 Lin. Ft.
Furrow Ditch - Left 515 Lin. Ft.
Construction Revisions Drawn By E.L.W. Checked By CAS
PLAN
PROFILE

GILA COUNTY

ARIZ. F. H. 9-K
SHEET 8 OF 17

ARIZONA HIGHWAY DEPARTMENT
PROJECT F-053-1-603
MESA - PAYSON HIGHWAY
Maricopa Co. Line - Payson
Drawing No. D-4-T-343
Sheet 33 of 39

Revised 1-19-73 C.O.#3491
Revised 3-3-77 C.O.#4768.

~~Mine claim filed by Patrick J. Walsh, Payson, Ariz. Unpatented~~

① N36°30'03"E 116.77'
② S72°19'43"E 30.00'
③ N72°52'00"W 20.00'

NEW R/W (1998)

Channel Change

Dike

4' Top

R=850.00' L=357.90'
R=840.00' L=353.67'

P.O.C. 667+00
100' & 110' RT AS-BUILT ℄
LTB=S 84°30'43"W

P.O.C. 663+00
100' & 110' RT. AS-BUILT ℄
LTB=N 60°23'15"E

Δ 80°10'
Δc 63°34'
Rc 950
Lc 1053.98
Δs 8°18'
Ls 275.24
a=2.1012

N53°44'14"W 45.00'

R=850.00' L=198.51'
R=805.00' L=141.70'

S.C. 651+71.83
LTB=N 73°26'E
100.00' & 145.00' RT. AS-BUILT ℄

P.O.C. 659+00
100' & 145' RT. AS-BUILT ℄
LTB=S 36°15'46"W

POT 654+00
145.00' & 165.00' RT AS-BUILT ℄

T.S. 654+42.53
100.00' & 145.00' RT. AS-BUILT ℄

N19°43'12"E 260.98'
N17°04'56"E 152.07'
N17°18'E 84.7'
N17°04'E Ahd.
112.84'
100'
100'

ST. 653+29.79
ST. 651+41.05
ST. 670+41.05

1059.27' AHD. PI.
134.66' RT. of SEMI. TAN.
949.23' AHD. PI.
95.51' RT. OF SEMI. TAN.
LTB=N22°42'15"E
1058.90' AHD. PI.
164.66' RT. SEMI. TAN.

④ S 29°36'45"E 10.00'
⑤ N 5°29'17"W 10.00'
~~S 7°18'00"W 20.00'~~
~~S 82°42'00"E 50.00'~~
⑧ S 75°06'19"E 75.66'
⑨ S 7°18'00"W 30.00'
⑩ S 82°42'00"E 100.00'
⑪ N 7°18'00"E 10.00'
⑫ N 85°59'24"E 101.98'

NOTE:
1. NEW R/W (1998) ACQUIRED FOR CONSTR. PROJ. 087 GI 243 H4026 OIC.
2. EXIST. R/W BASED ON ADOT SURVEY 9609U.

⑬ S7°18'00"W 20.00'
⑭ S82°42'00"E 100.00'
⑰ S82°42'00"E 275.00'

NEW R/W (1998)

610

669+22

B.C. Mon. Elev. 4256.00

Dike 4' Top

B.C. Mon. Elev. 4227.09

Back Hound

S82°42'E Chan. Chg.

Existing Spring Elev. 4246.5

Existing Water Trough

Corral

T9N R10E SEC.4

P.O.T. 676+00
120' & 130' RT. AS-BUILT ℄

P.O.T. 677+00
100' RT. AS-BUILT ℄

P.O.T. 674+25
100' & 130' RT. AS-BUILT ℄

680

2470.19'

4-0525

4-140

TONTO NATIONAL FOREST

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674+25

D.M. Elev. 4117.07
Nail in stake 50' Rt. 657+25

~~100' V.C.~~

17.000%

658+00
Dike-~~25 C.Y.~~

659+75 Elev. 4164.35

~~658+00 Elev. 4152.10~~
~~56' C.M.P. 112"~~
~~659+20~~

~~Channel Change Left~~
~~6' Bottom~~

D.M. Elev. 4243.18
Nail in stake 100' Rt. 668+00

661+09-661+66
Dike-~~28 C.Y.~~

662+25-665+25
Dike-~~175 C.Y.~~

Channel Change Left
6' Bottom
12'

+5.706%

~~15.706%~~

~~400' V.C.~~

4160

~~661+00~~

611+68
Dike-7 C.Y.

~~611+68 24" C.M.P. 52'~~

674+50-72" C.M.P. 78'

Existing Spring Elev. 4246.2

Furrow Ditch - Left
400 Lin. Ft.

~~Channel Change Left~~
~~6' Bottom~~

Furrow Ditch Right
300 Lin. Ft.

D.M. Elev. 4250.67
Nail in stake 75' Rt. 675+00

~~200' V.C.~~

~~675+50 - Elev. 4254.22'~~
~~676+00 - Elev. 4254.10~~

1:1

+0.959%

~~800' V.C.~~

1½:1

~~679+07 24" C.M.P. 58'~~
(Cam. Sta. 713+61)

Furrow Ditch Right
~~215~~ Lin. Ft.
540

~~683+75 - 24" C.M.P. 48'~~

Furrow Ditch Left
~~225~~ Lin. Ft.
300

~~Excavation - Cu. Yds.~~
~~Embankment - Cu. Yds.~~
~~Overhaul - Sta. Yds.~~

~~42284 (Incl. 485 Channel Change)~~
~~47563 (Incl. 201 Dike)~~
65137

~~3571 (Incl. 74 Channel Change)~~
~~3741~~
0

~~10922~~
~~10922~~
0

~~4194~~
~~4194~~
0

PLATE 1 - PLAN-PROFILE U. P. & D. R. C. STANDARD

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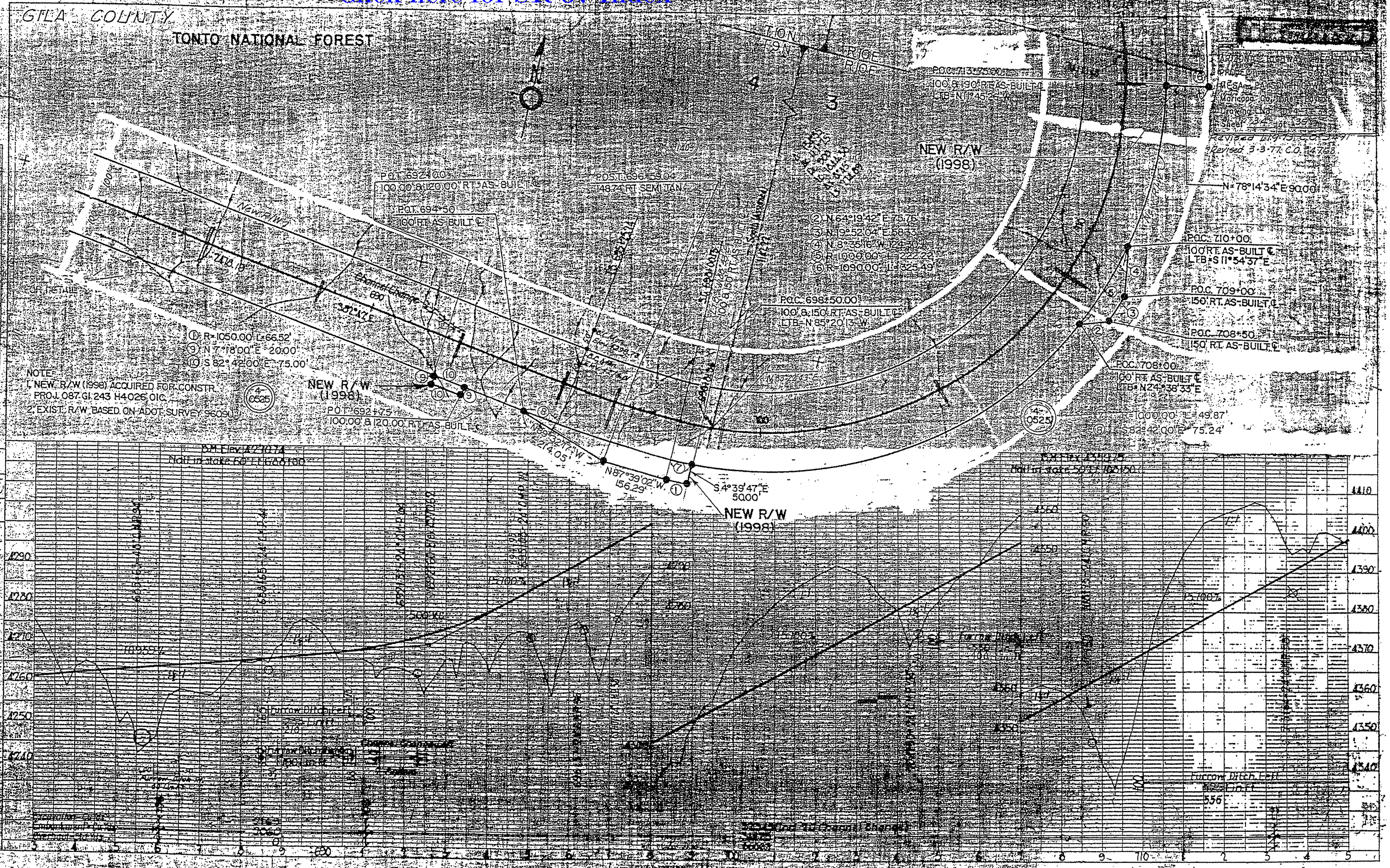
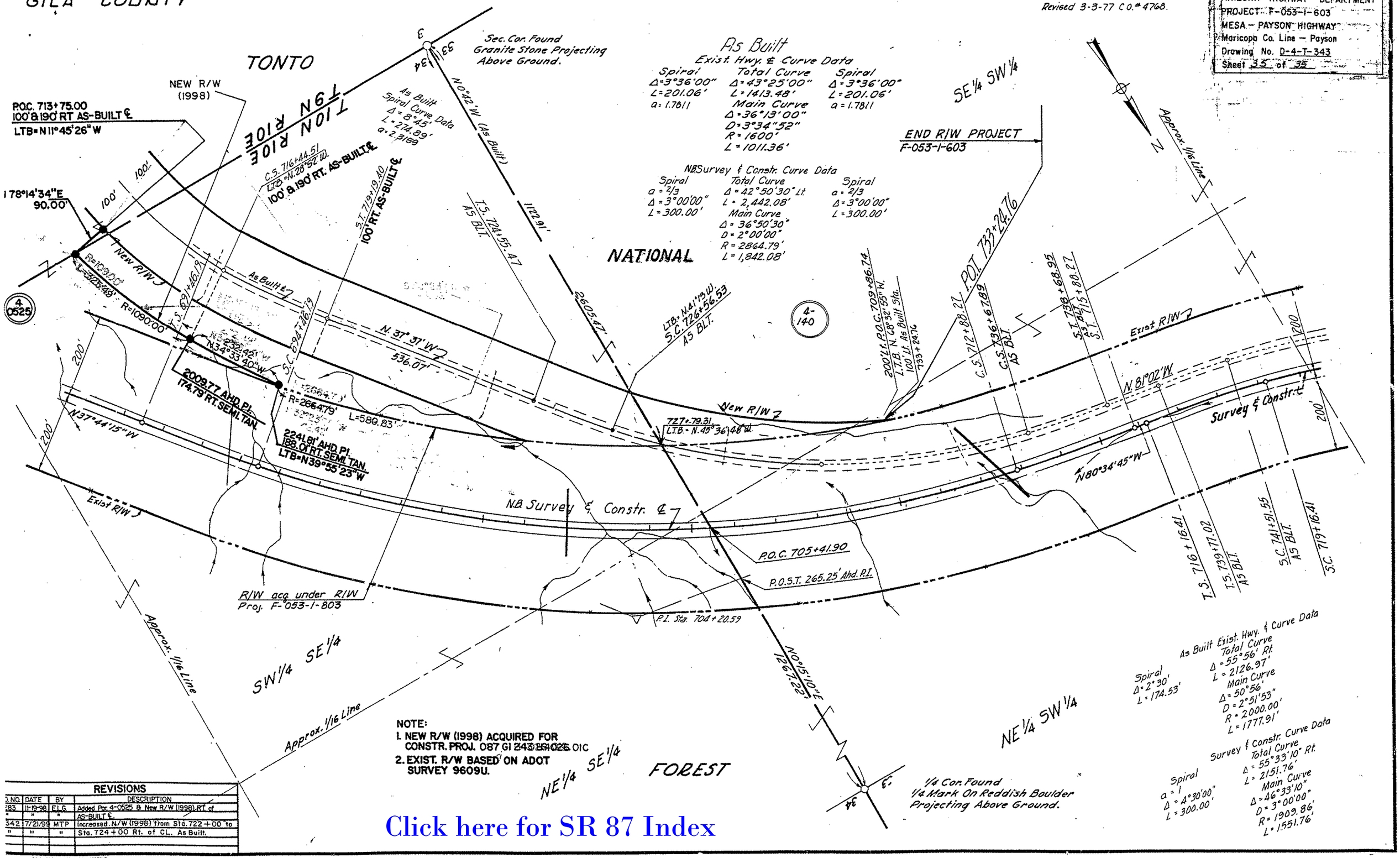


GILA COUNTY

Revised 1-19-73 C.O. #3491
Revised 3-3-77 C.O. #4768.

ARIZONA HIGHWAY DEPARTMENT
PROJECT F-053-1-603
MESA – PAYSON HIGHWAY
Maricopa Co. Line – Payson
Drawing No. D-4-T-343
Sheet 35 of 35



NOTE:
1. NEW R/W (1998) ACQUIRED FOR CONSTR. PROJ. 087 GI 243 154025 01C
2. EXIST. R/W BASED ON ADOT SURVEY 9609U.

REVISIONS			
O. NO.	DATE	BY	DESCRIPTION
283	11-19-98	F.I.G.	Added Par. 4-0525 & New R/W (1998) RT. of AS-BUILT ℄.
342	7/21/99	MTP	Increased N/W (1998) from Sta. 722+00 to Sta. 724+00 Rt. of CL. As Built.

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