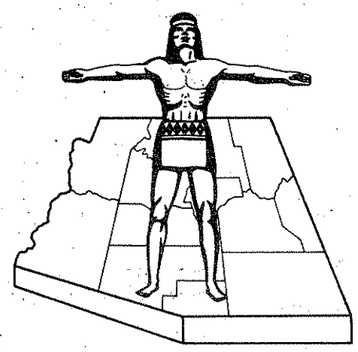


Click here for US 191 Index

STATE OF ARIZONA
STATE HIGHWAY DEPARTMENT

FINALIZED

FED.ROAD DIV. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	ARIZ.	~~NON~~ S-431-701	1	15

RIGHT OF WAY MAP NO. D-1-T-228

ALIGNMENT, RIGHT OF WAY, APPROVED IN ACCORDANCE WITH HIGHWAY PLANS. (SHEETS 1 - 15 INCLUSIVE)
DATE 11-28-62 Grant Heidecker FOR ASSISTANT STATE ENGINEER

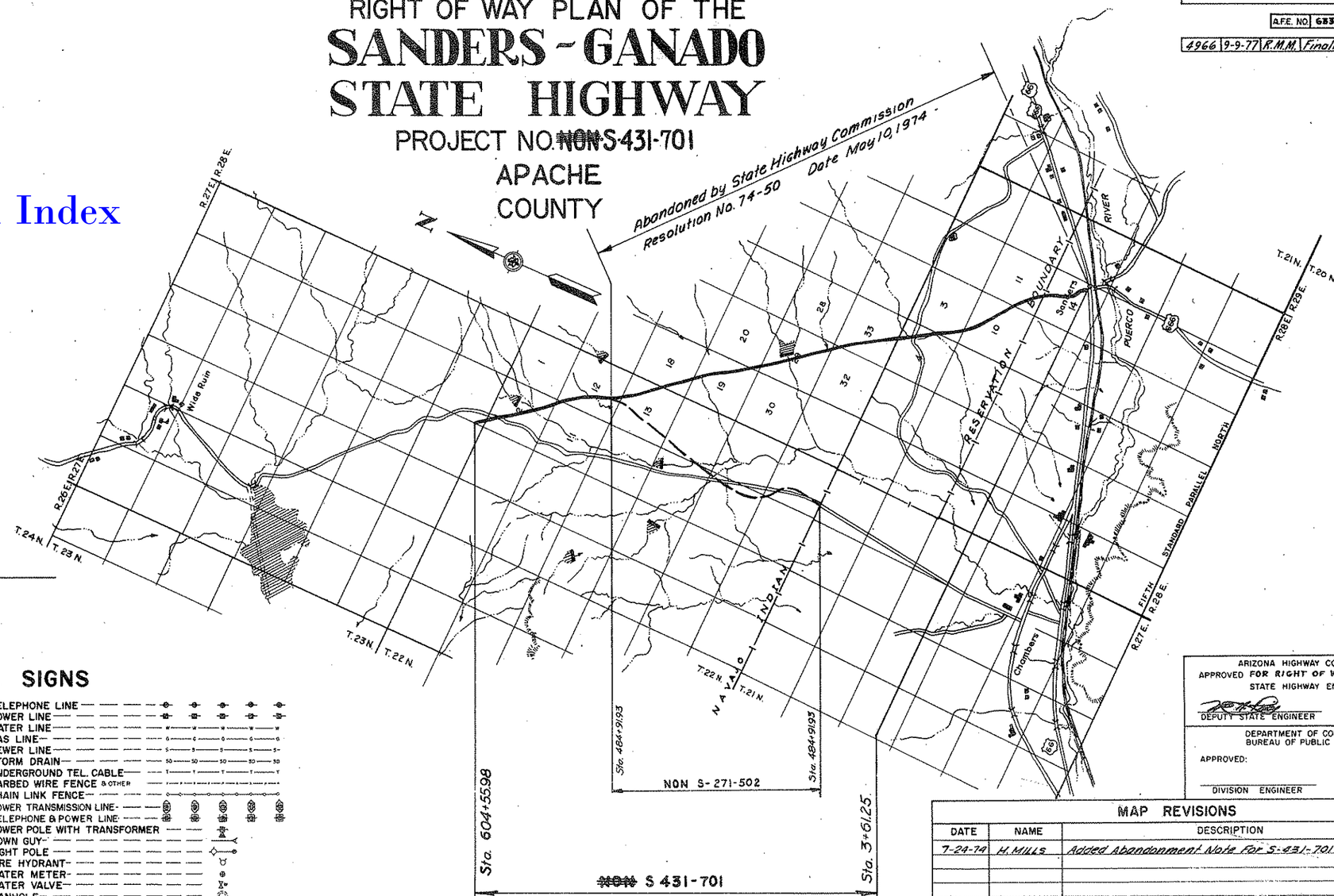
APPROVED IN ACCORDANCE WITH RESOLUTION DATED: 19 , MINUTES OF THE ARIZONA HIGHWAY COMMISSION.

A.F.E. NO. 6330

4966 | 9-9-77 | R.M.M. | Finalized

RIGHT OF WAY PLAN OF THE SANDERS - GANADO STATE HIGHWAY

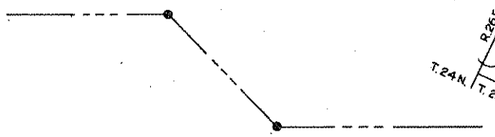
PROJECT NO. ~~NON~~ S-431-701
APACHE COUNTY



REDUCED SIZE
DO NOT SCALE

NOTE:

THE SOLID DOT, AS SHOWN BELOW, DOES NOT DESIGNATE A R/W MARKER BUT REPRESENTS AN ANGLE POINT OR CHANGE OF DIRECTION IN THE R/W LINE & IS FOR OFFICE USE ONLY.



CONVENTIONAL SIGNS

HIGHWAY CENTER LINE
STATE AND NATIONAL LINES
CITY LIMITS
COUNTY LINE
TOWNSHIP AND RANGE LINES
SECTION LINE
HIGHWAY R/W LINE (NEW)
RAILROAD R/W LINE
PROPERTY LINE
LOT AND PROPERTY LINE (WITHIN EXISTING R/W)
RAILROAD
COMMON R.R. AND HWY. R/W LINE
ACCESS TO BE DENIED
ACCESS OPEN
PARCEL ITEM No's
FOREST, NAT'L. MONUMENTS, AND INDIAN BOUDARIES
LAND GRANT BOUNDARY
R/W MARKER
HIGHWAY R/W LINE (EXISTING)
SUBDIVISION OR LOT LINE

TELEPHONE LINE
POWER LINE
WATER LINE
GAS LINE
SEWER LINE
STORM DRAIN
UNDERGROUND TEL. CABLE
BARBED WIRE FENCE & OTHER
CHAIN LINK FENCE
POWER TRANSMISSION LINE
TELEPHONE & POWER LINE
POWER POLE WITH TRANSFORMER
DOWN GUY
LIGHT POLE
FIRE HYDRANT
WATER METER
WATER VALVE
MANHOLE
EXIST. ROAD OR TRAVELED WAY
GAS METER
GAS VALVE

ARIZONA HIGHWAY COMMISSION
APPROVED FOR RIGHT OF WAY AQUISITION.
STATE HIGHWAY ENGINEER
DEPUTY STATE ENGINEER — DATE Nov. 28 1962

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED:
DIVISION ENGINEER — DATE

MAP REVISIONS

DATE	NAME	DESCRIPTION
7-24-74	H. MILLS	Added Abandonment Note For S-431-701 CO. # 4012

SANDERS – GANADO HWY.
SANDERS – WIDE RUIN SECTION
APACHE COUNTY

OWNERSHIP RECORD SHEET

REVISIONS			
C.O.#	DATE	BY	DESCRIPTION
470	9-21-67	L.F.W.	Revised E-670 & E-672
4012	7-24-68	M.L.W.H.S.	Added Acquisition Record
4966	9-9-71	R.M.M.	Finalized

Registered Professional Engineer (Civil) CERTIFICATE EXPIRES DEC. 31, 1963 ROBERT L. MORTON ARIZONA, U.S.A.

PROJECT NO.	~~NOW~~ S 431-701
DRAWING NO.	D-I-T-228
SHEET NO.	2 of 15
DRAWN BY	D.K. HEINRICHS
DATE COMP.	NOV. 5, 1962
SCALE	1"=100'

JOHANNESSEN & GIRAND
FOR THE CONSULTING ENGINEER

PARCEL NO	OWNER	DESCRIPTION	TOTAL AREA	AREA TAKEN	EASEMENT AREA	REMAINDER LEFT	REMAINDER RIGHT	SHEET NO.
E-670	C.G. Wallace et ux.	NW¼SE¼ & Part of NE¼SE¼ North of Hwy 66, Sect. 14, T21N, R28E	51.78Ac	3.54Ac± ~~3.61Ac±~~	0.13Ac±	47.26Ac±	0.85Ac± ~~0.78Ac±~~	3 & 4
E-672	School District No. 18 of Apache County	Parcel in SE¼ Sect. 14, T21N, R28E	2.04Ac±	~~0.33 Ac±~~ ~~1.44 Ac±~~	——	——	~~1.71 Ac±~~ ~~1.60 Ac±~~	3
E-673	Florence Wagner	Parcel in SE¼ Sect. 14, T21N R28E	1.00Ac±	0.07Ac±	——	——	0.93Ac±	3
E-674	Lewis Lynch Sr. et ux	NE¼ Sect. 14, T21N, R28E (less exceptions)	~~157.94 Ac±~~ 153.72 Ac±	11.12Ac±	0.11Ac±	24.69Ac±	~~132.07 Ac±~~ 117.85 Ac±	3, 4 & 5
E-675	Heirs of Notah (Ind. Allot.)	NW¼ Section 14, T21N, R28E	160Ac.±	4.76Ac±	0.07Ac±	151.58Ac±	3.59Ac±	5
E-676	Heirs of Clelly (Ind. Allot.)	NE¼ Section 10, T21N, R28E	160Ac.±	13.24Ac±	0.11Ac±	40.27Ac±	106.38Ac±	5 & 6
E-677	De-neth-i-tso-e (Ind. Allot.)	NW¼ Section 10 T21N, R28E	160Ac±	3.79Ac±	——	154.19Ac±	2.02Ac±	6
E-678	Chone (Indian Allotment)	Lots 1 & 2, S½NE¼ Sect. 4, T21N, R28E	160.77Ac±	15.08Ac±	——	80.44Ac±	65.25Ac±	7
E-679	Navajo Tribe	Sect. 11; S½ Sect. 10; Lots 1, 2, 3 & 4, S½ N½, S½ Sect. 3 (All); Lots 3 & 4, S½ NW¼ Sect. 4, T21N, R28E T22N R28E - Entire Township T22N R27E - Entire Township T23N R27E - Entire Township		222.18Ac±	0.58Ac±			5 thru 15
E-716	Estate of Do-de-bah, deceased (Indian Allotment)	SE¼ Sect. 4, T21N, R28E	160Ac.±	2.09Ac±	——	157.61Ac±	0.30Ac±	7

ACQUISITION RECORD

COMMISSION APPROVAL	TYPE & DATE OF INSTRUMENT	RECORDED DATE	RECORDED BOOK	RECORDED PAGE
5-2-67	F.O.C. 6-6-67	6-16-67	92	184-187-
7-7-65	F.O.C. 6-27-66	1-23-67	87	263-266
11-8-63	E.A.S.E. 9-11-63	12-18-63	63	496-497
11-8-63	D.F.D.E. 9-11-63	1-3-64	64	15-18
6-15-64				
6-15-64				
6-15-64				
6-15-64				
6-15-64	Letter of Tribal Consent Only Feb 26, 1963			
6-15-64				

Note:
See Sheets 3 thru 12
For Abandonments.

FINALIZED

Click here for US 191 Index

REDUCED SIZE
DO NOT SCALE

Click here for US 191 Index

SANDERS – GANADO HWY.
SANDERS - WIDE RUIN SECTION
APACHE COUNTY

NOTE:
Basis For Bearings-
Ties to U.S.C.&G.S. Stations "Cheto" & "S-11" Near Sanders & Ties to U.S.C.&G.S. "McCarrell" & "Lost" from a point 6114.56' N. 34°58'50" W of P.I. 419+97.86.
Bearings Ah'd. are true for Longitude of Sta. 265+00.

PROJECT NO.	~~NOA~~ S-431-701
DRAWING NO.	D-I-T-228
SHEET NO.	4 of 15
DRAWN BY	D. HEINRICHS
DATE COMP.	NOV. 5, 1962
SCALE	1"=50'

JOHANNESSEN & GIRARD
FOR THE CONSULTING ENGINEER

Registered Professional Engineer and Land Surveyor — Certificate No. 3 — Expiration Date — Dec. 31, 1962 — Ariz. — U.S.A.

SHEET CHECKED BY R/W PLANS
FIELD BOOKS
NAD. COPY
NAD. FILES
MISC. REF.

Added 20 Rod R/W	D. Heinrichs	11-26-62
Added Title Sheet	R. Hills	7-26-74
Added Abandonment 20/12	R. Martinez	5-9-77
Added 25 Rod R/W		2326
Added Curve Data		

NW1/4SE1/4

Approx. 1/4 Sect. Line (Comp.) N 81°05' E

3 Barb Wire (Remove Within R/W)

T21N R28E

SW1/4NE1/4

E-670

E-674

10' Dirt Rd.

CURVE DATA
Δ = 10°38'20" Lt.
D = 0°45'00"
R = 7639.44'
T = 711.30'
L = 1418.51'

Sta. 29+70
New 48"x110' Pipe Culv.
45° Skew Lt.

100'x15' Drainage Easement

PC 29+67.89
5/8" I.P.

R=7539.44'

New 160' Channel

Drainage Easement

S 39°42'58" W

10'

80'

20

25

30

15

Line

S 39°15'00" E
Initial Bearing

55°

N 38°17'02" W 310.32'

+55

+50

R/W Line

Stock Fence

919.22'

Sta. 20+48.67
BEARING EQUATION
N 33°15'00" W. Bk. =
N 33°13'20" W. Ah'd.

New 120' Spec. Conc. Paved Channel

SURVEY & CONSTR ℄

Slope Limit

P.I. 15+68.28
5/8" Iron Pin

R=1532.40'
L=225.80'

Sta. 18+34
New 10'x4'x40' C.B.C.
Spec. Drop Inlet Rf.

New 100' Dyke

New 750' Ditch & Dyke

New 30' Dyke
R=7739.44'

L=348.52' from SC

S 35°12'51" E
289.39'

S 39°15'00" E
Initial Bearing

R=1332.40'

Spiral
a = 1/3
Δs = 6°00'00"
Ls = 300.00'
O = 2.67'
t = 149.94'

C.S. 17+48.67
5/8" I.P.

S.T. 20+48.67
5/8" I.P.

M.P.O.C. 15+61.33
5/8" I.P.

Telephone 15' Clear

Match

Total Curve
Δ = 26°59'13" Rt.
Dto = 1435.02'
Ts = 494.28'

Main Curve
Δ = 14°59'13"
D = 4°00'00"
R = 1432.40'
L = 374.67'

SE1/4NE1/4

Approx. 1/16 Section Line

2 Barb Wire Remove Within R/W

SW1/4NE1/4

E-674

R/W Abandoned 5/10/74
Arizona State Highway
Commission Resolution # 74-50

FINALIZED

Approx. 1/8 Section Line

REDUCED SIZE
DO NOT SCALE

Click here for US 191 Index

SANDERS – GANADO HWY.
SANDERS – WIDE RUIN SECTION
APACHE COUNTY

PROJECT NO.	~~NCH~~ S-431-701
DRAWING NO.	D-1-T-228
SHEET NO.	5 of 15
DRAWN BY	D. HEINRICHS
DATE COMP.	NOV. 5, 1962
SCALE	1"=100'

JOHANNESSEN & GIRAND
FOR THE CONSULTING ENGINEER

Curve Data
Δ= 10°38'20" Lt.
D= 0°45'00"
R= 7639.44'
T= 711.30'
L= 1418.51'

T21N R28E

Approx. ¼ Sect. Line

E-674 E-675 E-676 E-679

Indian Alotment No. Phx. 010036
Heirs of Notah

P.T. 43+86.40

R= 7539.44'
L= 730.02' from P.C.

L= 669.93' Stock Fence

New 20'x80' B.T.O. Sta. 43+00

Survey & Constr. ℄

N 43°51'40" W

R/W Line 583.87' (Comp.)

NAVAJO INDIAN RESERVN
BOUNDARY
Section Line
1933.13' (M)
N 87°47'20" W
5916.45'

Found Section Corner in ground 0.2' from fence Corner

Found Section Corner in ground 0.2' from Stone (No Marks) Fence Corner

Slope Limit

36" P.C.

312.70'

R= 7739.44'
L= 992.93' from P.C.

New Channel

Stock Fence

L= 444.15'

100'x 30' Drainage Easement

Sta. 38+50
New 10'x 8'x 126' C.B.C.
45° Skew Lt.
Cattle Pass

Approx. ¼ Section Line
N 0°05'20" E (Comp.)

N. 1/4 Cor. Sec. 13

N 0°16'20" E (Comp.)

2618.31' (Comp.)

92°16'55"

Found 18"x 12"x 12" White stone mound in ground 0.2' from fence Corner

Found 18"x 12"x 8" Witness stone set in ground on edge of red sandstone

8' Dirt Rd.

P.O.T. 48+66.45 Section Tie

New 20'x 80' B.T.O.

New 20' Ditch & Dyke

376.24' (Comp.)

288.28'

3362.72' (Comp.)

Sta. 52+08
New 36"x 162' Pipe Culv.
30° Skew Rt.

105'

175'

Drainage Easement

R/W Abandoned 5/10/74
Arizona State Highway
Commission Resolution # 74-50

FINALIZED

100'x 210' Constr. Easement

N 0°07'50" E

195.73'

New 20'x 80' B.T.O. Sta. 73+50

150' New 20' Groder Road

100'x 175' Constr. Easement

Sta. 75+76

2624.78'
674.05'

END PROJ. CONST. 5-431-503

BEGIN CONST. PROJ. 5-431-501

REDUCED SIZE
DO NOT SCALE

P.O.T. 76+75.85 Sect. Tie

P.O.T. 86+29.38 Sect. Tie

N 43°51'40" W

282.88' (Comp.)

3087.65'

100'x 50' Drainage Easement

105' New Bank Protection Type 'A' Std. C-23

N. 88°51'10" W. ¼ Section Line

Found ¼ Corner Unmarked Stone 18"x 12"x 6" Local Indians as ¼ Cor.

Sta. 87+12
New 10'x 8'x 72' C.B.C.
30° Skew Lt.
Cattle Pass

Indian Allotment No. Phx. 010028
Estate of Clelly (dec.)

Found ¼ Corner Unmarked Stone 18"x 12"x 6" Marked S.C. 10 on South

1994.11'
6656.42'

Match Line

Approx. ¼ Section Line

8' Dirt Rd.

Found Section Corner in ground 0.2' from Stone (No Marks) Fence Corner

Found Section Corner in ground 10.2' from fence Corner

Found 18"x 12"x 8" Witness Corner Unmarked Stone 10.2' from fence Corner

Re-Registered Professional Engineer
CERTIFICATE NO. 6438
REGISTERED LAND SURVEYOR
DEC. 31, 1962
ARIZONA U.S.A.

9-5-77	R. Matthews	Finalized	4566
7-26-74	H. Mills	Old S.S. 2-63 Standard	4012
		Revised Sta. 38+50	
		Revised Sta. 52+08	
		Revised Sta. 87+12	

WORK ORDERED BY R/W LANDS
CENTRAL FILES DATA
FIELD BOOKS
PRINTS
AS BUILTS
MISC. REF.

Click here for US 191 Index

SANDERS – GANADO HWY.
SANDERS – WIDE RUIN SECTION
APACHE COUNTY

PROJECT NO.	~~NHF~~ S-431-701
DRAWING NO.	D-I-T-228
SHEET NO.	5 of 15
DRAWN BY	D. HEINRICHS
DATE COMP.	NOV. 5, 1962
SCALE	1"=100'

JOHANNESSEN & GIBAND
FOR THE CONSULTING ENGINEER

Registered Professional Engineer (Civil) — Certificate No. 5431 — State of Arizona U.S.A. — Exp. Dec. 31, 1962

SURVEY CHECKED BY FIELD BOOKS / HEAD COPY / M. MILLS / MISC. REF.

1-26-74	M. MILLS	Changed Monument Line
9-25-73	R. Maclane	Plotted

Curve Data
Δ= 10°38'20" Lt.
D= 0°45'00"
R=7639.44'
T= 711.30'
L=1418.51

R=7539.44'
L=730.02' from P.C.
L=669.93'
R=7739.44'
L=992.93' from P.C.
L=444.15'
312.70'
583.87' (Comp.)
376.24' (Comp.)
288.28'
3362.72' (Comp.)
2618.37' (Comp.)
N 43°51'40"W
N 0°05'07"E (Comp.)
N 0°04'00"W
N 0°07'50"E
N.88°51'10"W.
2682.88' (Comp.)
3087.65'
2678.67'
2624.78'
614.05'
Sta. 75+76

T21N R28E

Indian Allotment No. Phx. 010036
Heirs of Notah

NAVAJO INDIAN RESERV'N
BOUNDARY
Section Line
N87°47'20"W
3318.45
1053.13' (M)

Indian Allotment No. Phx. 010028
Estate of Clelly (dec.)

Sta. 38+50
New 10'x 8'x 126' C.B.C.
45° Skew Lt.
Cattle Pass

Sta. 52+08
New 36"x 162' Pipe Culv.
30° Skew Rt.

Sta. 87+12
New 10'x8'x 72' C.B.C.
30° Skew Lt.
Cattle Pass

New Channel
New 200' Ditch & Dike
New 20'x80' B.T.O.
Sta. 43+00
Sta. 73+30
P.O.T. 48+66.45 Section Tie
P.O.T. 76+75.85 Sect. Tie
P.O.T. 86+29.38 Sect. Tie
Survey & Constr. ℄
R/W Line
Stock Fence
Slope Limit
36" P.C.
Drainage Easement
100'x 30' Drainage Easement
100'x 210' Constr. Easement
100'x 175' Constr. Easement
250' New 20' Grader Road
150' New 20' Grader Road
105' New Bank Protection Type 'A' Std. C-23
Approx. ¼ Section Line
Approx. ⅛ Section Line
Match Line
8' Dirt Rd.

R/W Abandoned 5/10/74
Arizona State Highway
Commission Resolution # 74-50

END PROJ. CONST. 5-431-503
BEGIN CONST. PROJ. 5-431-501

FINALIZED

REDUCED SIZE
DO NOT SCALE

Click here for US 191 Index

SANDERS – GANADO HWY.
SANDERS – WIDE RUIN SECTION
APACHE COUNTY

PROJECT NO.	~~HSN~~ S-431-701
DRAWING NO.	D-1-T-228
SHEET NO.	6 of 15
DRAWN BY	D. HEINRICHS
DATE COMP.	NOV. 5, 1962
SCALE	1"=100'

JOHANNESSEN & GIRAND
FOR THE CONSULTING ENGINEER

FIELD BOOKS
HARD COPY
AS BUILTS
MISC. REF.

CENTRAL FILES DATA

T21N R28E

SW1/4 NE1/4 | SE1/4 NE1/4 | NW1/4 NE1/4 | NE1/4 NW1/4 | NE1/4 NW1/4 | SE1/4 SW1/4 | SW1/4 SW1/4 | SE1/4 SW1/4 | NW1/4 SW1/4

E-676 | E-677 | E-679

90 Line | 95 | 100 | 105 | 110 | 115 | 120 | 125 | 130 | 135 | 140 | 145 | 150 Line

100' | 100' | Match

R/W Line

To 1/4 Sect. Line 2678.67' (Comp.)

Survey & Constr. ℄

N 43°51'40" W

Slope Limit

To 1/4 Sect. Line 3087.65' (Comp.)

1039.10' (Comp.)

P.O.T. 115+12.54 Sect. Tie

299.21'

(Comp.)

612.90' (Comp.)

¼ Section Line N 0°06'35" W 2038.86'

Found center section 2½" pipe high stone Marked ¼ on North ¼ on South

Indian Allotment No. Phx. 010028
Estate of Clelly (dec.)

Approx. ¼ Section Line

Indian Allotment No. Phx. 010030
De-neth-l-tsoe.

2599.45'
S 60° 59' E

Found ¼ corner Marked 24"x 12"x 18" Stone Set 3"x 3" Cedar post 1' N.E. of Stone

Section Line 3

8' Dirt Rd.

R/W Abandoned 5/10/74
Arizona State Highway
Commission Resolution # 74-50

FINALIZED

Indian Allotment No. Phx. 010030
De-neth-l-tso-e

Section Corner Found ½" pipe high stone Marked 3 notches on North Set 0"x 5" ground Marked 3 notches on North & notches on South

2660.93'
2088.08'

Found ¼ corner 2½" x 15" x 18" high stone Set in ground Marked 3"x 3" high cedar post 1' N.E. of Stone

572.25'
N. 86°29'20" W.

Constr. Easement

400' New 20' Grader Road

380'

320'

60'

100'

130'

11°

Sta. 141+50

New 20'x80' B.T.O.

R = 11559.16'

R = 11,359.16'

8°52'50"

275' New 20' Grader Road

300'

280'

Curve Data
Δ = 8°52'50" Rt.
D = 0°30'00"
R = 11,459.16'
T = 889.84'
L = 1776.11'

R.C. 136+11.30

Approx. ¼ Section Line

REDUCED SIZE
DO NOT SCALE

Click here for US 191 Index

SANDERS - GANADO HWY.
SANDERS - WIDE RUIN SECTION
APACHE COUNTY

PROJECT NO.	~~RSW S-431-701~~
DRAWING NO.	D-F-T 228
SHEET NO.	7 of 15
DRAWN BY	L. ELBRECHT
DATE COMP.	NOV. 5, 1952
SCALE	1"=100'

JOHANNESSEN & GIRAND
FOR THE CONSULTING ENGINEER

SHEET CHECKED BY R/W PLANNER
FIELD BOOKS
HARD COPY
AS BUILTS
MISC. REF.

10-26-62		
8-9-66		
OLZ 2.26.69		
Finalized		
1-9-72	R. Nathan	

FINALIZED

R/W Abandoned 5/10/74
Arizona State Highway
Commission Resolution #74-50

Curve Data
Δ = 8°52'50" Rt.
D = 0°30'00"
R = 11,459.16'
T = 889.84'
L = 1776.11'

Click here for US 191 Index

REDUCED SIZE
DO NOT SCALE

SANDERS – GANADO HWY.
SANDERS – WIDE RUIN SECTION
APACHE COUNTY

PROJECT NO.	~~NCH~~ S-431-701
DRAWING NO.	D-I-T-228
SHEET NO.	8 of 15
DRAWN BY	L. ELBRECHT
DATE COMP.	NOV. 5, 1962
SCALE	1"=100'

JOHANNESSEN & GIRAND
H.C. Johannessen
FOR THE CONSULTING ENGINEER

Registered Professional Engineer — Arizona — Dec. 31, 1962

DATE	MODEL MEMBER BY	SHEET CHECKED BY	SHEET CHECKED BY R/W PLANS	Bearer	DETAIL FILES DATA
11-15-62					
7-24-73	H. ZILLIG	Shown Abandoned	4012		FIELD BOOKS
9-5-72	R. McVICKER	Plotted	4746		HARD COPY
					AS BUILTS
					MISC. REF.

Approx. 1/16 Section Line
T22N R26E
NE1/4 SW1/4
NW1/4 SW1/4
SW1/4 NW1/4
8' Dirt Rd.
E-679
210 Line
215
220
225
230
235
240
R/W Line
Survey & Constr. ℄
N34°58'50"W
Slope Limit
100'
Match
Sta 219+00
New 10'x8'x40' C.B.C.
Cattle Pass
FINALIZED
R/W Abandoned 5/10/74
Arizona State Highway
Commission Resolution # 74-50
T22N R26E
5 4 32 33
Found 4"ø 15" High Cedar Post
Marked 4 Notches on E.
2 Notches on W.
"J.A." on S.
N1°24'20"E (Comp)
1576.74' (Comp)
1/4 Corner
Not In
Approx. 1/16 Section Line
240
245
8' Dirt Rd.
320' New 20' Grader Road
340'
320'
Constr. Easement
NE1/4 NW1/4
E-679
250
255
265
270 Line
81°
R/W Line
P.O.T. 245+69.45 (Comp) Sect. Tie
Sta. 250+00
New 20'x80' B.T.O.
N34°58'50"W
Slope Limit
Survey & Constr. ℄
New 20'x80' B.T.O.
P.O.T. 259+26.56 (Comp) Sect. Tie
1335'
5343.84' (Comp)
1380' New 20' Grader Road
60°
R/W Line
Sta. 244+64
New 10'x8'x40' C.B.C.
Cattle Pass
1275'
Constr. Easement
1095.18' (Comp) to Sect. Corner (Not In)
Approx. Sect. Line
NW1/4 NW1/4
REDUCED SIZE
DO NOT SCALE
S88°48'40"E (dup)
3760' (dup)
Sect. Corner
Not In
1/4 Corner
Not In
Approx. 1/16 Section Line
SW1/4 SE1/4
Approx. Sect. Line
Sect. Cor.
Not In
N1°24'20"E (Comp)
5343.84' (Comp)
Sect. Cor. to Sect. Cor.
SE1/4 SE1/4
Match

Click here for US 191 Index

SANDERS – GANADO HWY.
SANDERS – WIDE RUIN SECTION
APACHE COUNTY

PROJECT NO.	~~NON~~ S-431-701
DRAWING NO.	D-I-T-228
SHEET NO.	9 of 15
DRAWN BY	D.HEINRICHS
DATE COMP.	NOV. 5, 1962
SCALE	1"=100'
JOHANNESSEN & GIRAND	
FOR THE CONSULTING ENGINEER	

T22N R28E

SW1/4 SE1/4 · SE1/4 SE1/4 · SE1/4 NW1/4 · NE1/4 NW1/4 · NW1/4 SE1/4 · NW1/4 NW1/4 · NE1/4 NW1/4 · NE1/4 SW1/4 · SW1/4 NE1/4 · SW1/4 SW1/4 · SE1/4 NW1/4 · SW1/4 NW1/4

E-679

Approx. ¼ Sect. Line

Approx. ¼ Section Line

R/W Line

Survey & Constr. ℄

N 34°58'50"W

Slope Limit

270 Line

275 · 280 · 285 · 290 · 295 · 300 · 305 · 310 · 315 · 320 · 325 · 330 Line

29 · 30 · 19 · 20 · 28 · 21

Sta. 276+00
New 2-10'x4'x44' C.B.C.

45°
297'
362'
50
60
50

Drainage Easement

New 400' Dyke

Sta. 294+20
New 2-10'x10'x38' C.B.C.
Cattle Pass

R/W Abandoned 5/10/74
Arizona State Highway
Commission Resolution # 74-50

Sta. 319+00

New 20'x80' B.T.O.

390' New 20' Grader Road

Constr. Easement

40°
360'
N 1°24'20" E (Comp.)
534.84' (Comp.)
Sect. Corner to Sect. Line

Approx. ¼ Section Line

Approx. Sect. Line

P.O.T. 325+28.65 (Comp.) Sect. Tie

S 88°58'40" E (Comp.)
2640.50' (Comp.)
618.80' (Comp.)

N 1°24'20" E (Comp.)
Sect. Corner Not In

¼ Cor. Not In

Sect. Corner Not In

Match

100 · 100

FINALIZED

REDUCED SIZE
DO NOT SCALE

Click here for US 191 Index

SANDERS GANADO HWY.
SANDERS - WIDE RUIN SECTION
APACHE COUNTY

PROJECT NO.	~~NGH~~ S-431-701
DRAWING NO.	D-1-T-228
SHEET NO.	10 of 15
DRAWN BY	L. ELBRECHT
DATE COMP.	NOV. 5, 1962
SCALE	1"=100'

JOHANNESSEN & GIRAND
FOR THE CONSULTING ENGINEER

Registered Professional Engineer — Certificate Expires Dec. 31, 1962 — Arizona U.S.A.

SEC. 19 T. 22 N. R. 28 E. G. & S. R. B. & M.
Found Sect. Corner No. 19

N 1° 24' 20" E (Comp.)
845.96' (Comp.)

330 Line

8' Dirt Rd.

SE1/4 SE1/4 — E-679

T22N R28E

Approx. 1/4 Section Line

335 340 345 350 355 360

R/W Line

100' 100'

P.O.T. 335+71.71 (Comp.) Sect. Tie

Survey & Constr. ℄

N 34° 58' 50" W

Slope Limit

Slope Limit

R/W Line

Match

NW1/4 SE1/4 — E-679

SW1/4 NE1/4

SW1/4 SW1/4 — E-679

1828.06' (Comp.)

S 34° 58' 50" E (Comp.)

1/4 Cor. Not Found

Sect. Cor. Not Found

19 20 18 17

NE1/4 SE1/4 — E-679

SE1/4 NE1/4 — E-679

Click here for US 191 Index

FINALIZED

R/W Abandoned 5/10/74
Arizona State Highway
Commission Resolution # 74-50

Approx. 1/4 Sect. Line

SW1/4 NE1/4 — E-679

10' Dirt Rd.

360 365 370 375 380 385 390 Line

R/W Line

N 34° 58' 50" W

Sta. 367+00
New 2-10'x8'6"x38' C.B.C.
Cattle Pass

Approx. 1/4 Section Line

SW1/4 NE1/4

Approx. 1/4 Section Line

22.0' 180' To Forest Service Rd. 15° 180'

Constr. Easement

16' Blacked Rd.

14° 180'

NW1/4 NW1/4 — E-679

115' 50' 50' 110'

420' New 20' Grader Road

Sta. 380+00

New 20'x80' B.T.O.

Survey & Constr. ℄

Slope Limit

Slope Limit

100' 100'

New 20'x80' B.T.O.

50' 50'

50' 80'

100' 30'

900' New 20' Grader Road

Constr. Easement

240' 38°

10°

240' 210'

120' To Burnt Water

NW1/4 NE1/4 — E-679

250' 180'

280' 270' 170'

8' Dirt Rd.

Approx. 1/4 Section Line

Approx. 1/4 Section Line

Match

REDUCED SIZE
DO NOT SCALE

Click here for US 191 Index

SANDERS - GANADO HWY.
SANDERS - WIDE RUIN SECTION
APACHE COUNTY

PROJECT NO.	~~NOH~~ S-431-701
DRAWING NO.	D-I-T-228
SHEET NO.	11 of 15
DRAWN BY	L. ELBRECHT
DATE COMP.	NOV. 5, 1962
SCALE	1"=100'

JOHANNESSEN & GIRAND
FOR THE CONSULTING ENGINEER

Registered Professional Engineer (Civil) — Certificate No. 1942 — Expires March 31, 1963 — Arizona U.S.A.

SHEET CHECKED W.P.
SHEET CHECKED W.P.
FIELD BOOKS
INDEX SHEET
MISC. REF.

SPECIAL AGREEMENT NO. 1
Old S.A.R. #3
Finalized
R. Hoffman
R. Hoffman
11-24-62
12-26-62
5-23-63

Curve Data
Δ= 16°22'50" Lt.
D= 0°45'00"
R= 7639.44'
T= 1099.54'
L= 2184.07'

P.O.T. 408+98.32 Bk. EQUA.
P.C. 408+98.32 Ahd.

Approx. ¼ Section Line

R=7539.44'
R=7739.44'
R=5824.58'
R=5629.58'

Slope Limit
Survey & Constr. ℄
R/W Line
N 34°58'50" W
N 51°21'40" W.

P.O.T. 391+65.10 (Comp.) Sect. Tie
N 88°05'20" W. 2168.92' (Comp.)
P.O.T. 357.53' Ahd P.I. (Comp.) Sect. Tie
N 89°20'35" E. (Comp.) 2495.09' (Comp.)
Approx. Range Line
5336.63' (Comp.)
2668.92' (Comp.)

Approx. ¼ Sect. Line
Sect. Corner Not In
¼ Corner Not In
Approx. Sect. Line
2668.92' (Comp.)
5337.84' (Comp.)

P.I. 430+82.39
P.C. 445+10.26

Sta. 436+00
New 10'x8'x38' C.B.C.
Cattle Pass

1700' New 20' Grader Rd.
R=5529.58'
770' to 200' Rt. Sta. 450+00

Curve Data
Δ= 39°49'00" Rt.
D= 1°00'00"
R= 5729.58'
T= 2075.02'
L= 3981.67'

R/W Abandoned 5/10/74
Arizona State Highway
Commission Resolution # 74-50

To Water Well

10' Dirt Rd.

Track

Constr. Easement

E-679

FINALIZED

REDUCED SIZE
DO NOT SCALE

SANDERS - GANADO HWY.
SANDERS - WIDE RUIN SECTION
APACHE COUNTY

PROJECT NO.	~~NCH~~ S-431-701
DRAWING NO.	D-1-T-228
SHEET NO.	12 of 15
DRAWN BY	L. ELBRECHT
DATE COMP.	NOV. 5, 1962
SCALE	1"=100'

JOHANNESSEN & GIRARD
FOR THE CONSULTING ENGINEER

Registered Professional Engineer — CERTIFICATE LAPSES — PHOENIX, ARIZONA U.S.A.

SHEET CHECKED BY R/W PLANS — CENTRAL FILES DATA
DELLA BROOKS — HAND COPY — AS BUILTS — MISC. REF.

T22N R27E

To Chambers

100'

N11°53'30"E

P.C. 210+68.83

R=5829.58'

POC 215+94.00

R/W Line

100'

SE1/4 NW1/4

NE1/4 NW1/4

SW1/4 NW1/4

Approx. 1/16 section Line

80'

100'

135'

650' New 20' Grader Rd.

Constr. Easement

E-679

Approx. 1/16 Section Line

50' 50'

New 20'x80' B.T.O.

Sta 455+00

Slope Limit

1700' New 20' Grader Rd.

R=5529.58'

430' from 200' Rt. Sta 450+00

Match Line

SW1/4 NE1/4

NW1/4 NE1/4

Constr. Easement

REDUCED SIZE DO NOT SCALE

P.I. 465+85.28

P.O.S.T. 304.17' Ahd. P.I. (Comp.)

Sanders - Ganado Line

N.51°21'40"W.

Approx. Sect. Line

3811.95' (Comp.)

N11°32'40"W

N8°08'05"E 647.43'

POST Zia - BIA 60 Sect. Tie

(Comp.) Chambers - Ganado P.I. 22+57.25

Ramp

R=5629.58'

R/W Line

Survey & Constr. ℄

Chambers - Ganado Hwy. Proj. No. S-911-302

Cross Road

POC 472+94.31

Sta 474+29.49

℄ R/W Line

R/W Abandoned 5/10/74
Arizona State Highway
Commission Resolution # 74-50

470

475

480

North

Line

100'

T22N R27E

T22N R28E

T22N R28E

Sanders - Ganado Hwy.
Curve Data
Δ 39°49'00" Rt.
D 1°00'00"
R= 5729.58'
T= 2075.02'
L= 3981.67'

Chambers Ganado Hwy.
Curve Data
Δ 23°36'10" Lt.
D 1°00'00"
R= 5729.58'
T= 1198.42'
L= 2363.51'

8' Dirt Rd.

10' Dirt Rd.

SW1/4 SW1/4

SE1/4 SW1/4

FINALIZED

Click here for US 191 Index

SANDERS – GANADO HWY
SANDERS – WIDE RUIN SECTION
APACHE COUNTY

PROJECT NO.	~~NOH~~ S-431-701
DRAWING NO.	D-1-T-228
SHEET NO.	13 of 15
DRAWN BY	D. HEINRICHS
DATE COMP.	NOV. 5, 1962
SCALE	1"=100'

JOHANNESSEN & GIRAND
FOR THE CONSULTING ENGINEER

Registered Professional Engineer — Certificate No. 3931 — Expires 12-31-1962 — Arizona U.S.A.

Chambers-Ganado Hwy. Curve Data
Δ = 23°26'10" Lt.
D = 1°00'00"
R = 5729.58'
T = 1198.42'
L = 2343.61'

End Constr. Proj: Non S-271-502
P.T. 23+12.44 (Chambers-Ganado Hwy.)
P.T. 484+91.93

T22N R27E

Curve Data
Δ = 23°26'10" Lt.
D = 1°24'00"
R = 4092.56'
T = 848.87'
L = 1674.01'

Approx. 1/4 Section Line

NW1/4 SW1/4

NW1/4 NW1/4

EQUATION
Bk. = 505+05.49
Ahd. = 502+56.57

Approx. Section Line

Approx. 1/16 Section Line

Survey & Constr. ℄ Chambers-Ganado Hwy.

R/W Line

P.C. 488+31.48

N11°32'40"W

R=5629.58'

R=3992.56'

N 34°58'50"W

Slope Limit

Slope Limit

Survey & Constr. ℄

R=4192.56'

Sta 502+50
New 6'x5'x48' C.B.C.

8' Dirt Rd.

Match Line

Curve Data
Δ = 39°49'00" Rt.
D = 1°00'00"
R = 5729.58'
T = 2075.02'
L = 3981.67'

NE1/4 SW1/4

E-679

480 485 490 495 500 505 510

NOTE:
Basis For Bearings–
Ties to U.S.C.&G.S. Stations "McCarrell" & "Lost" from a point 6114.56' N.34°58'50"W of P.I. 419+97.86.
Bearings Ahd. are true for Longitude of Sta. 796+00.

FINALIZED

Click here for US 191 Index

T22N R27E

NE1/4 NE1/4

NW1/4 NW1/4

SW1/4 SE1/4

SE1/4 SE1/4

100'x 350' Constr. Easement

Approx. 1/16 Section Line

8' Dirt Rd.

300' New 20' Grader Road

Sta. 530+00
BEARING EQUATION
N 34°58'50" W Bk. =
N 35°02'10" W Ahd.

Sta. 527+50
New 20'x80' B.T.O.

New 20'x80' B.T.O.

Slope Limit

Slope Limit

P.O.T. 514+13.86 (Comp.) Sect. Tie

P.O.T. 524+73.34 (Comp.) Sect. Tie

Survey & Constr. ℄

R/W Line

R/W Line

Constr. Easement

N 29°30'E. (Comp.)
850.13' (Comp.)

N.88°20'05"W. (Comp.)
679.80' (Comp.)

1400'

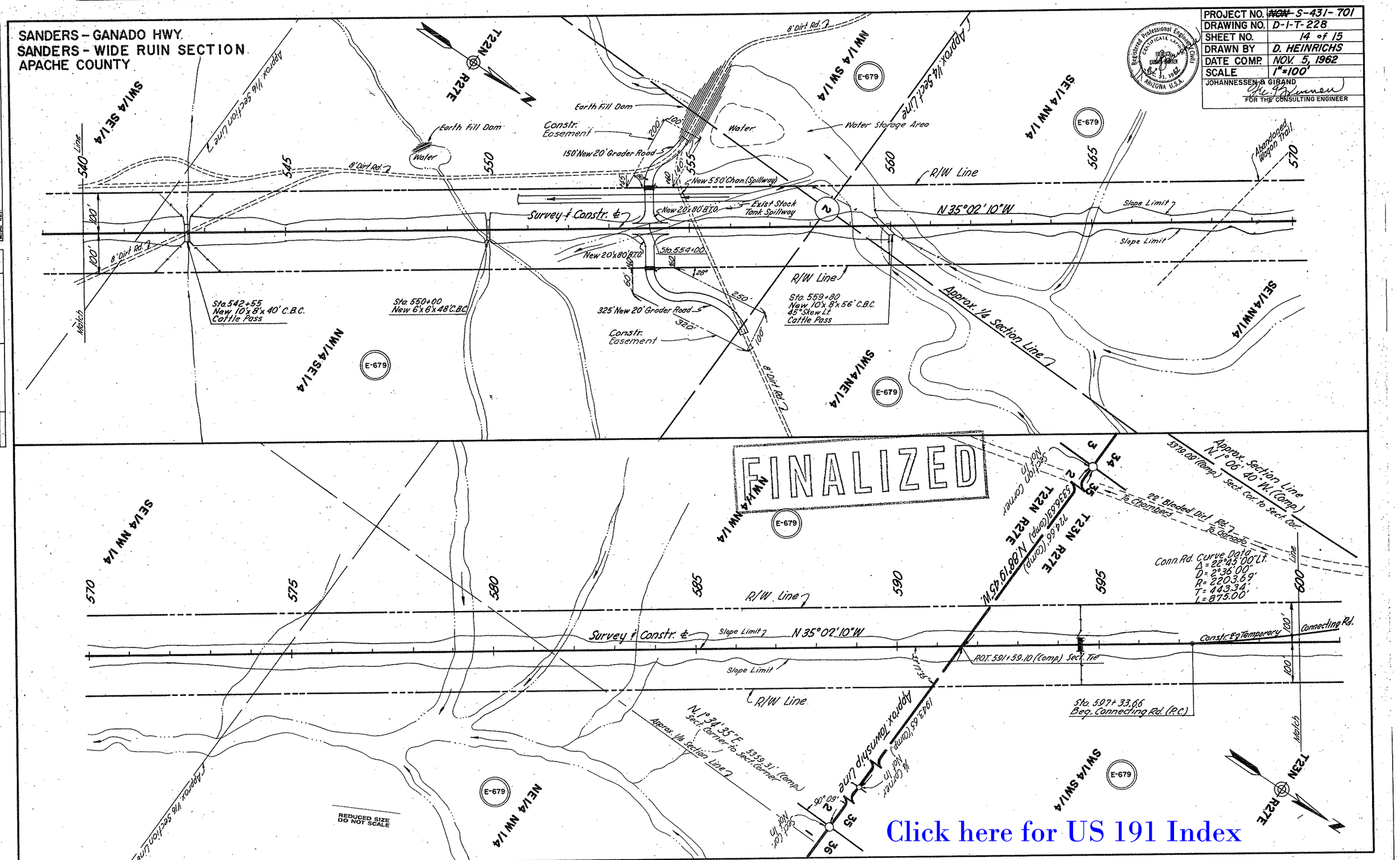
1630' New 20' Grader Road

Approx. 1/16 Section Line

Match Line

510 515 520 525 530 535 540

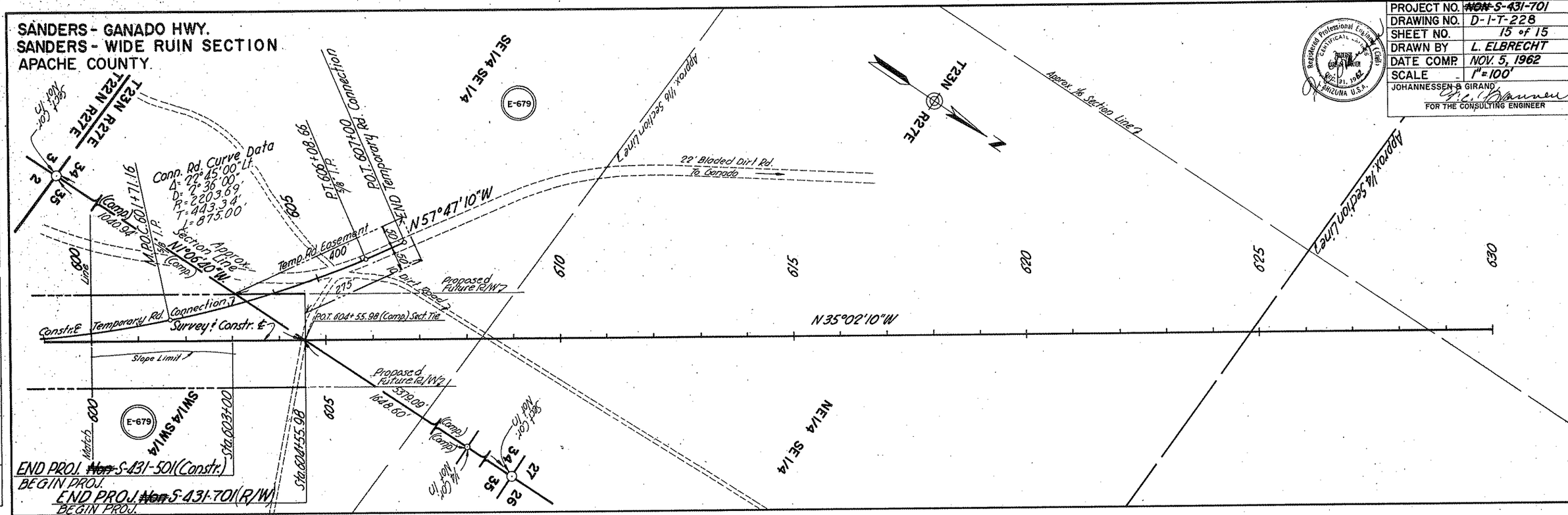
REDUCED SIZE
DO NOT SCALE


SANDERS - GANADO HWY.
SANDERS - WIDE RUIN SECTION
APACHE COUNTY
PROJECT NO. ~~NON~~ S-431-701
DRAWING NO. D-1-T-228
SHEET NO. 14 of 15
DRAWN BY D. HEINRICHS
DATE COMP. NOV. 5, 1962
SCALE 1"=100'
JOHANNESSEN & GIRAND
FOR THE CONSULTING ENGINEER
Registered Professional Engineer (Civil)
CERTIFICATE LATHER
ARIZONA U.S.A.
FINALIZED
Approx. 1/16 Section Line
Approx. 1/4 Sect. Line
Approx. 1/4 Section Line
Approx. Section Line N. 1° 06' 40" W. (Comp.)
5379.09' (Comp.) Sect. Cor. to Sect. Cor.
22' Bladed Dirt Rd.
To Chambers
To Ganado
Conn. Rd. Curve Data
Δ = 22°45'00" Lt.
D = 2°36'00"
R = 2203.69'
T = 443.34'
L = 875.00'
Constr. Easement
150' New 20' Grader Road
New 550' Chan. (Spillway)
New 20'x80' B.T.O.
Exist Stock Tank Spillway
Water Storage Area
Earth Fill Dam
Water
Survey & Constr. ℄
R/W Line
N 35°02'10"W
Slope Limit
Sta. 542+55
New 10'x8'x40' C.B.C.
Cattle Pass
Sta. 550+00
New 6'x6'x48' C.B.C.
Sta. 554+00
325' New 20' Grader Road
Sta. 559+80
New 10'x8'x56' C.B.C.
45° Skew Lt.
Cattle Pass
Abandoned Wagon Trail
8' Dirt Rd.
Match Line
T22N R27E
T23N R27E
SW1/4 SE1/4
NW1/4 SE1/4
NE1/4 NW1/4
SW1/4 NE1/4
SE1/4 NW1/4
SW1/4 SW1/4
E-679
Sta. 597+33.66
Beg. Connecting Rd. (P.C.)
P.O.T. 591+59.10 (Comp.) Sect. Tie
Constr. & Temporary Connecting Rd.
Approx. Township Line
N. 1° 34' 35" E. 5359.31' (Comp.)
Sect. Corner to Sect. Corner
Approx. 1/16 Section Line
REDUCED SIZE DO NOT SCALE
Click here for US 191 Index

SANDERS - GANADO HWY.
SANDERS - WIDE RUIN SECTION
APACHE COUNTY

PROJECT NO.	~~NON~~ S-431-701
DRAWING NO.	D-1-T-228
SHEET NO.	15 of 15
DRAWN BY	L. ELBRECHT
DATE COMP.	NOV. 5, 1962
SCALE	1" = 100'

JOHANNESSEN & GIRAND
FOR THE CONSULTING ENGINEER



FINALIZED

REDUCED SIZE
DO NOT SCALE

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