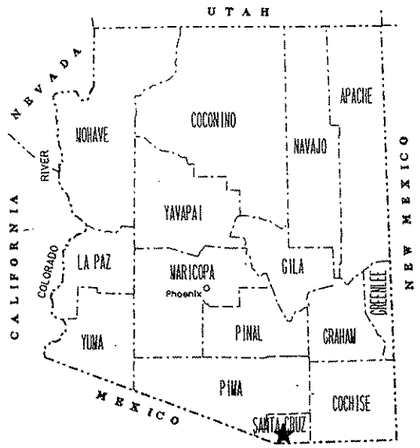
F.H.W.A. REGION	STATE	FEDERAL REFERENCE NO.	SHEET NO.	TOTAL SHEETS	FINALIZED PLANS
9	ARIZ.	F-032-1	1	13	



STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RIGHT OF WAY PLAN OF THE
NOGALES PRIMARY CONNECTION
FRANK REED DR. - U.S. 89
189 SC 2 H 2156 01R

LENGTH OF PROJECT 1.23 DISTRICT 2

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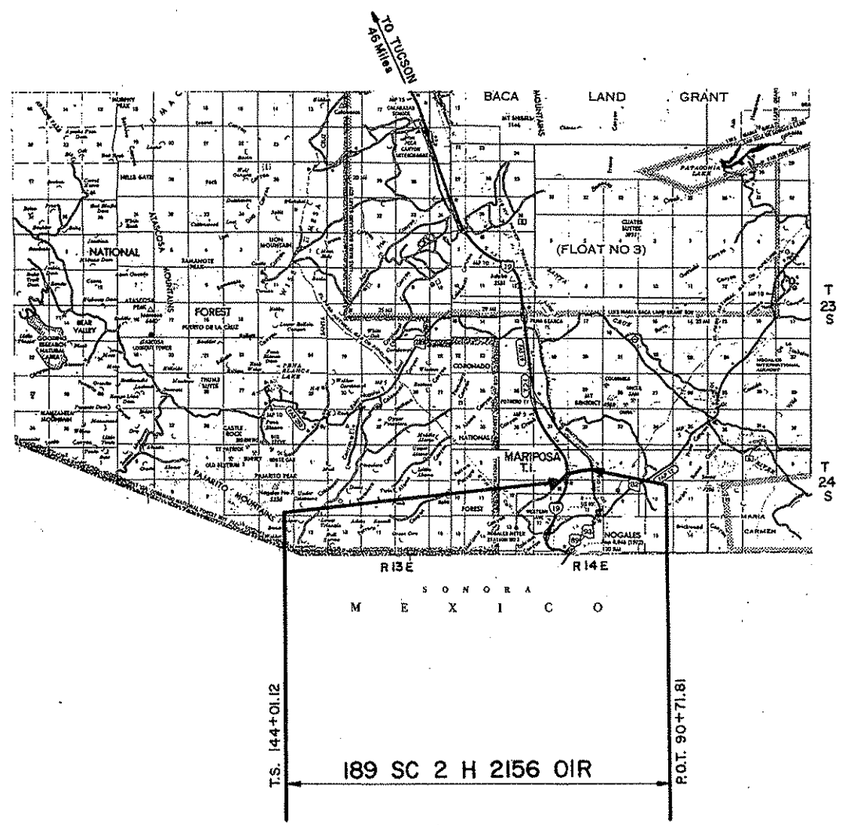

ARIZONA DEPARTMENT OF TRANSPORTATION BOARD
APPROVED FOR RIGHT OF WAY ACQUISITION IN ACCORDANCE
WITH RESOLUTION 98-05-A-19 DATED
THOMAS A. BRYANT, II STATE ENGINEER
89-12-A-62 11-23-98
APPROVED IN ACCORDANCE WITH ROADWAY PLANS
DATE 3/6/89

DEPUTY STATE ENGINEER
Robert P. Mickelson

U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED DATE

DIVISION ADMINISTRATOR

PUBLIC HEARING REQUIREMENTS CERTIFIED N/A
ENVIRONMENTAL CLEARNACE 7-24-89

DRAWING NO. D-12-T-346
SHEET NO. 1 OF 13

① Includes 43363.92⌀ Previously Acquired Under Drainage Esmt. Grant A-8921 & 33727.32⌀ Previously Acquired Under Drainage Esmt. Grant A-759.

OWNERSHIP RECORD										ACQUISTION RECORD				
PARCEL NUMBER	OWNER	DESCRIPTION	TOTAL AREA	AREA REQUIRED GROSS INCLUDING EXISTING R/W	AREA REQUIRED NET EXCLUDING EXISTING R/W	EASEMENT AREA	REMAINDER LEFT	REMAINDER RIGHT	SHEET NUMBER	BOARD APPROVAL	TYPE & DATE OF INSTRUMENT	RECORDED DATE	RECORDED BOOK	RECORDED PAGE
12-334	LOUIS MASTICK, TRUSTEE	Pts. of SE4SE4 Section 6, T.24S.,R.14E.	473704⌀	85237⌀	66518 ⌀		388467⌀		5 & 6					
12-335	U.S.A. (B.L.M.)	Pt. of Lots 8 & 13 Section 6, T.24S.,R.14E.			~~25144⌀~~ ① 102236⌀				5					
12-336	DVL, INC.	Pts. of Sections 5,6 & 7, T.24S.,R.14E.	348537⌀		~~18279⌀~~ 13467⌀			~~330256⌀~~ 335070⌀	6					
12-337	SANTA CRUZ INVESTMENT PARTNERSHIP	Pt. of S2 Section 5, T.24S.,R.14E.	~~31.19AC.~~ 49.2AC.			39.5 Ac.	~~30.88AC.~~ 49.2 AC.		7&8					
~~12-337-A~~	~~SANTA CRUZ INVESTMENT PARTNERSHIP~~	~~Pt. of S2 Section 5, T.24S.,R.14E.~~		DELETED		9-02-05								
12-389	CASA SIERRA INVESTMENTS LIMITED PARTNERSHIP.	Pt. of SE1/4 Section 5, T.24S.,R.14E.	38500⌀			7500⌀ U.E. 750⌀ D.E.	30250⌀		8					
12-0496	TORMEY INVESTMENTS, LLC.	Pt. of SE4 SEC. 5 T.24S.,R.14E.				1250 ⌀ D.E.			8					

NOTE: SURVEY INFORMATION FURNISHED BY ARIZONA DEPARTMENT OF TRANSPORTATION.

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REVISIONS			
C.O. NO.	DATE	BY	DESCRIPTION
9330	4-21-99	MTP	Added Drainage Easement to Par. 12-389
7938	5-17-89	NRG	Revised Net. Par. 12-335. Added Note.
7967	6-30-89	NRG	Revised Net. Par. 12-336.
7982	7-26-89	NRG	Deleted Par. 12-337.
7992	8-24-89	NRG	Re-Instated Par. 12-337.
8128	4-13-90	MAH	Added Par. 12-337-A
9276	12-3-98	MTP	Added Par. 12-389

DRAWING NO.	D-12-T-346
HARD COPY	8745 M1 & M2
DRAWN	S.O.G
CHECKED	J. HAVINS
GMTS CORPORATION	
ROUTE	S.R. 189
LOCATION	FRANK REED DR. – U.S. 89

ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
RIGHT OF WAY PLANS SERVICES

HIGHWAY: NOGALES PRIMARY CONNECTION

PROJECT NO. F-032-1

SHEET 2 OF 13

189 SC 2 H2156 01R

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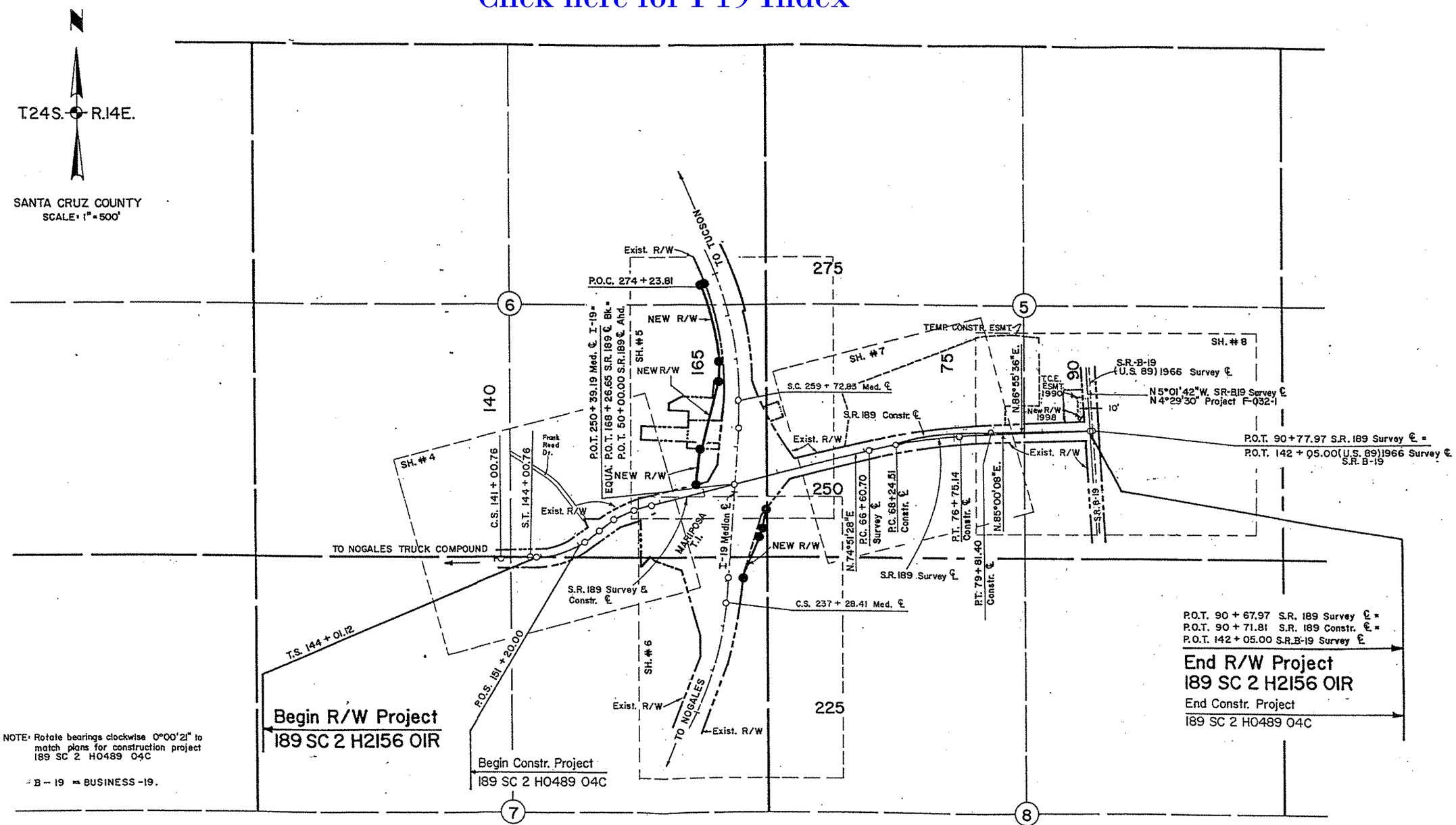

NOTE: Rotate bearings clockwise 0°00'21" to match plans for construction project 189 SC 2 H0489 04C

B – 19 = BUSINESS -19.

VICINITY MAP

NOTE: SEE PLANSHEETS FOR CURVE DATA

NOTE: SURVEY INFORMATION FURNISHED BY ARIZONA DEPARTMENT OF TRANSPORTATION.

REVISIONS			
C.O. NO.	DATE	BY	DESCRIPTION
7938	5-17-89	NRG	Rev'd New R/W Par. 12-335.
7982	7-26-89	NRG	Deleted Par. 12-337.
7992	8-24-89	NRG	Re-instated Par. 12-337. Added T.C.E. Lt. Sta. 75+00.
8128	4-13-90	MAH	Added New T.C.E-1990, Lt. Sta. 90+00
9276	12-3-98	MTP	Added New R/W 1998 & Added S.R. B-19.

DRAWING NO.	D-12-T-346
HARD COPY	8745 MI & M2
DRAWN	S.O.G.
CHECKED	J. HAVINS
GMTS	
ROUTE	S.R. 189
LOCATION	FRANK REED DR. – U.S. 89

ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
RIGHT OF WAY PLANS SERVICES

HIGHWAY: NOGALES PRIMARY CONNECTION

PROJECT NO. F-032-1

SHEET 3 OF 13

189 SC 2 H2156 OIR

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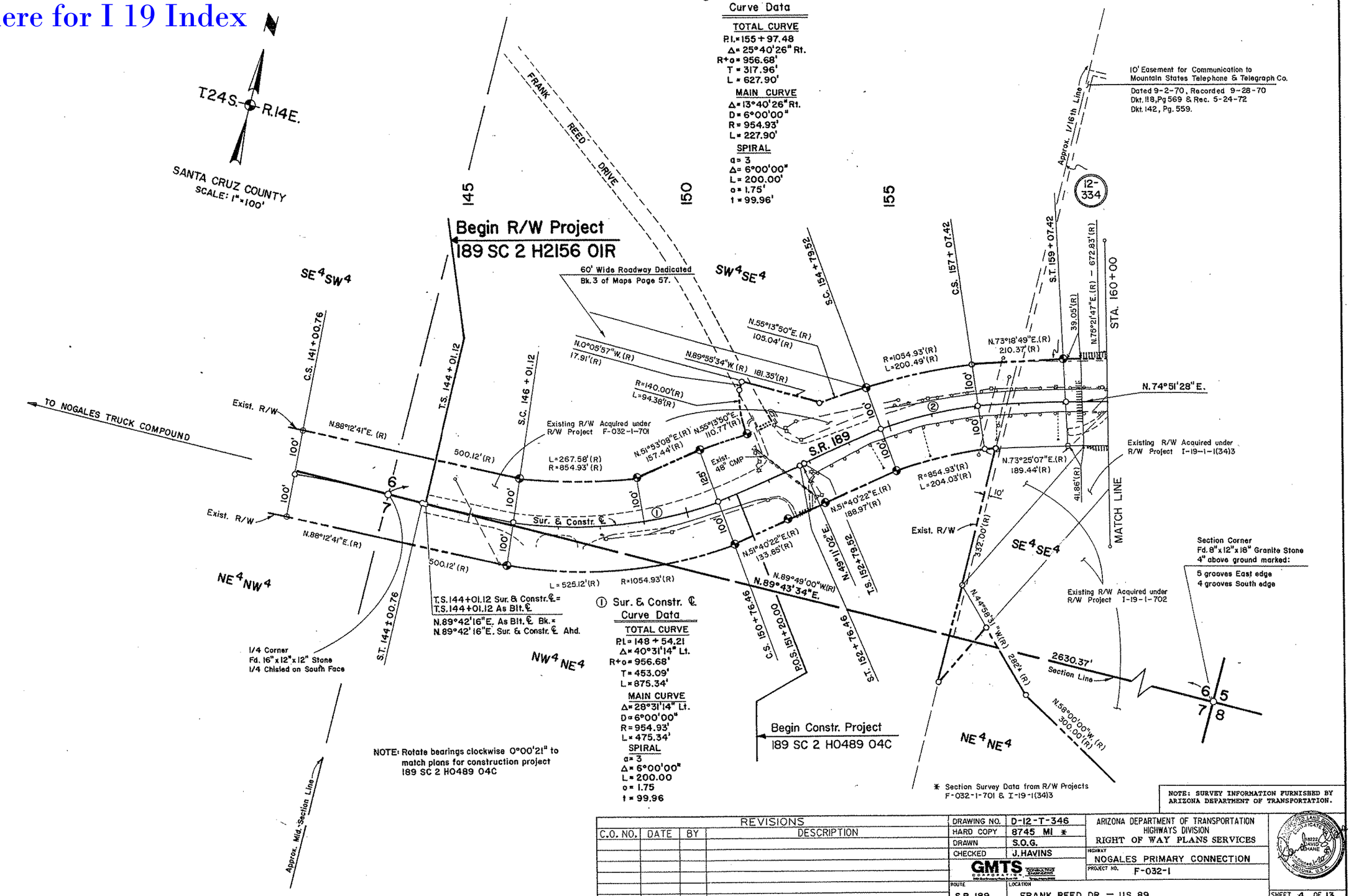

② Sur. & Constr. ℄ Curve Data

TOTAL CURVE
P.I. = 155 + 97.48
Δ = 25°40'26" Rt.
R+o = 956.68'
T = 317.96'
L = 627.90'

MAIN CURVE
Δ = 13°40'26" Rt.
D = 6°00'00"
R = 954.93'
L = 227.90'

SPIRAL
a = 3
Δ = 6°00'00"
L = 200.00'
o = 1.75'
t = 99.96'

① Sur. & Constr. ℄ Curve Data

TOTAL CURVE
P.I. = 148 + 54.21
Δ = 40°31'14" Lt.
R+o = 956.68'
T = 453.09'
L = 875.34'

MAIN CURVE
Δ = 28°31'14" Lt.
D = 6°00'00"
R = 954.93'
L = 475.34'

SPIRAL
a = 3
Δ = 6°00'00"
L = 200.00
o = 1.75
t = 99.96

NOTE: SURVEY INFORMATION FURNISHED BY ARIZONA DEPARTMENT OF TRANSPORTATION.

REVISIONS			
C.O. NO.	DATE	BY	DESCRIPTION

DRAWING NO.	D-12-T-346
HARD COPY	8745 MI *
DRAWN	S.O.G.
CHECKED	J. HAVINS
GMTS CORPORATION	
ROUTE	S.R. 189
LOCATION	FRANK REED DR. — U.S. 89

ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
RIGHT OF WAY PLANS SERVICES

HIGHWAY: NOGALES PRIMARY CONNECTION
PROJECT NO. F-032-1

SHEET 4 OF 13

189 SC 2 H2156 01R

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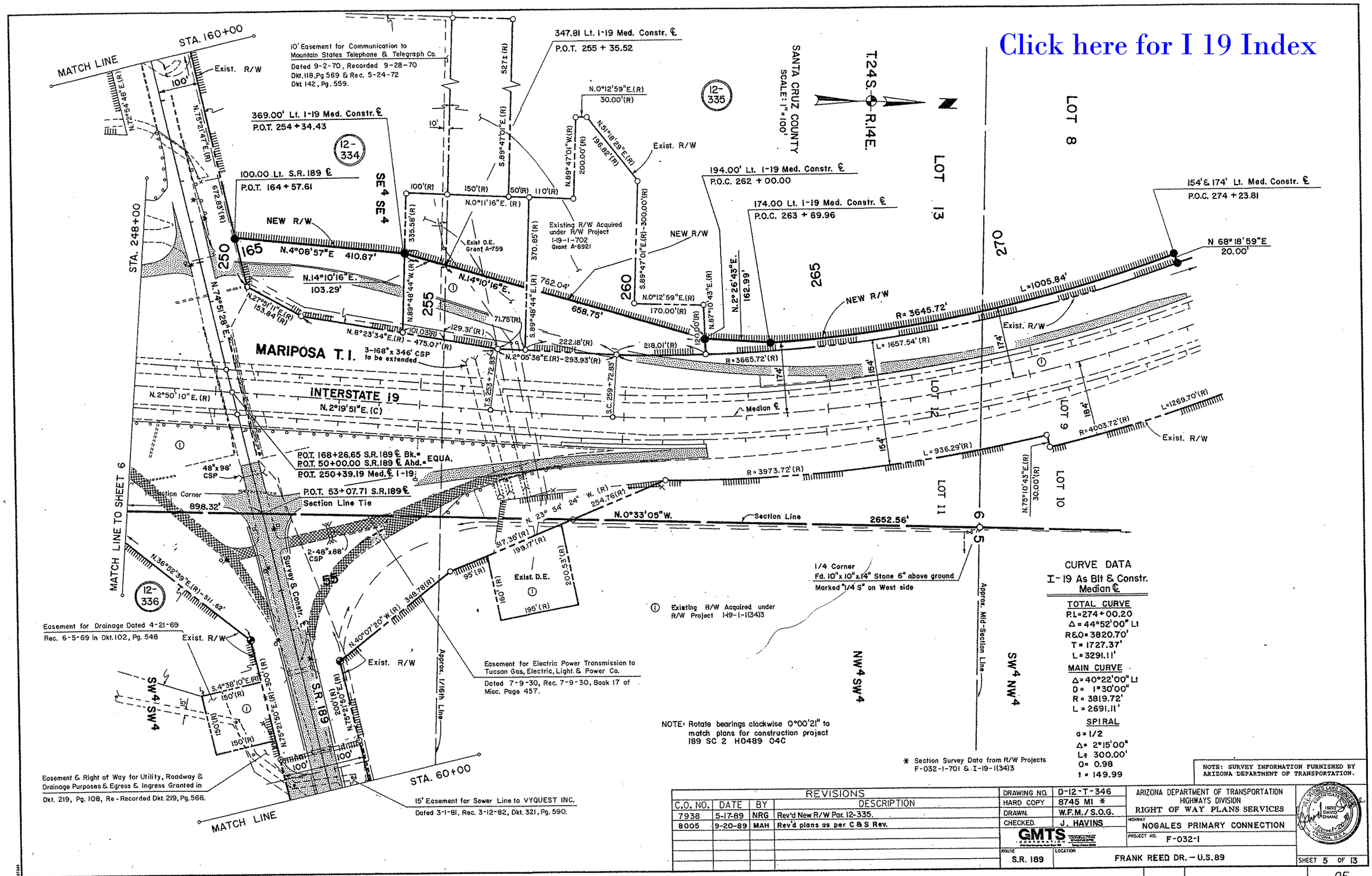

CURVE DATA

I-19 As Blt & Constr. Median ℄

TOTAL CURVE

P.I.=274+00.20
Δ = 44°52'00" Lt
R&O=3820.70'
T = 1727.37'
L = 3291.11'

MAIN CURVE

Δ=40°22'00" Lt
D = 1°30'00"
R = 3819.72'
L = 2691.11'

SPIRAL

a = 1/2
Δ= 2°15'00"
L= 300.00'
O= 0.98
I = 149.99

NOTE: SURVEY INFORMATION FURNISHED BY ARIZONA DEPARTMENT OF TRANSPORTATION.

REVISIONS			
C.O. NO.	DATE	BY	DESCRIPTION
7938	5-17-89	NRG	Rev'd New R/W Par. 12-335.
8005	9-20-89	MAH	Rev'd plans as per C & S Rev.

DRAWING NO.	D-12-T-346
HARD COPY	8745 MI *
DRAWN.	W.F.M./S.O.G.
CHECKED.	J. HAVINS
ROUTE	S.R. 189
LOCATION	FRANK REED DR. – U.S.89

GMTS CORPORATION

ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
RIGHT OF WAY PLANS SERVICES

HIGHWAY: NOGALES PRIMARY CONNECTION

PROJECT NO. F-032-1

SHEET 5 OF 13 OF

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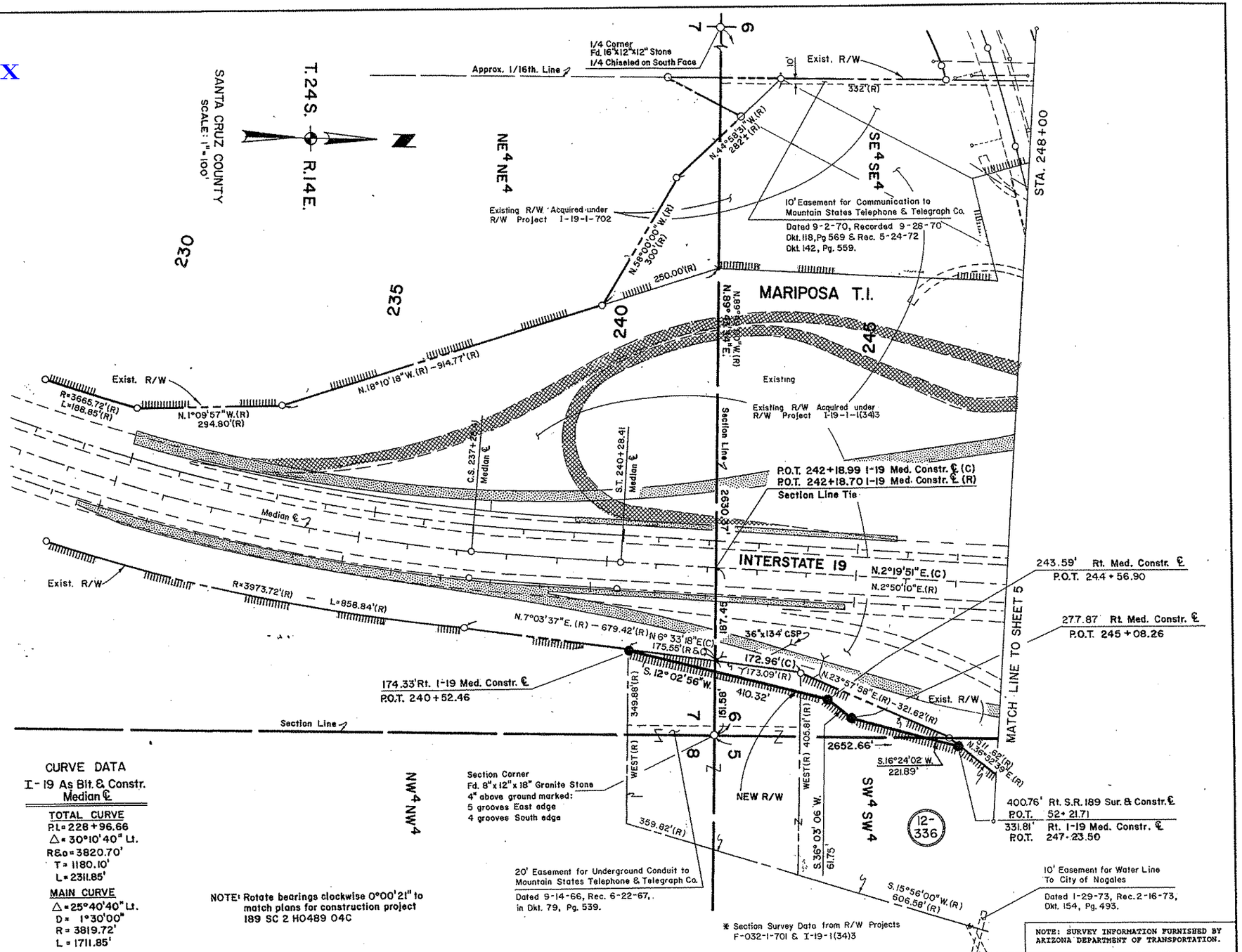

CURVE DATA

I-19 As Blt. & Constr.
Median ℄

TOTAL CURVE

P.I. = 228+96.66
Δ = 30°10'40" Lt.
R&o = 3820.70'
T = 1180.10'
L = 2311.85'

MAIN CURVE

Δ = 25°40'40" Lt.
D = 1°30'00"
R = 3819.72'
L = 1711.85'

NOTE: Rotate bearings clockwise 0°00'21" to match plans for construction project 189 SC 2 H0489 04C

NOTE: SURVEY INFORMATION FURNISHED BY ARIZONA DEPARTMENT OF TRANSPORTATION.

REVISIONS			
C.O. NO.	DATE	BY	DESCRIPTION
7967	6-30-89	NRG	REVISED NEW R/W PAR. 12-336.
8005	9-20-89	MAH	Rev'd plans as per C & S Rev.

DRAWING NO.	D-12-T-346
HARD COPY	8745 MI *
DRAWN	W.F.M./ S.O.G.
CHECKED	J. HAVINS
GMTS CORPORATION	
ROUTE	S.R. 189
LOCATION	FRANK REED DR. – U.S. 89

ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
RIGHT-OF-WAY PLANS SERVICES

HIGHWAY: NOGALES PRIMARY CONNECTION

PROJECT NO. F-032-1

REGISTERED LAND SURVEYOR 18022 DAVID SHANE ARIZONA U.S.A.

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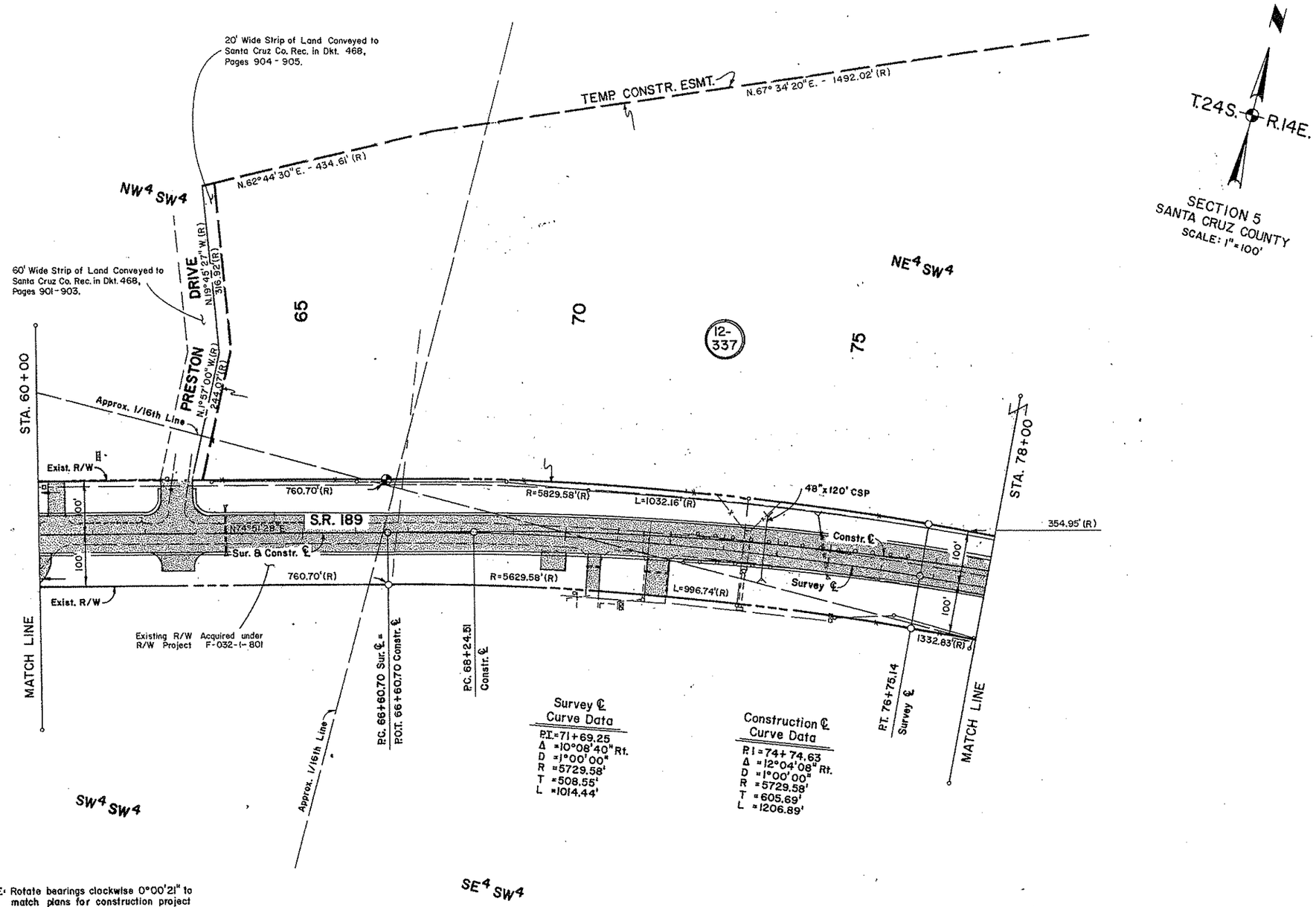
OF



NOTE: Rotate bearings clockwise 0°00'21" to match plans for construction project 189 SC 2 H0489 04C

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NOTE: SURVEY INFORMATION FURNISHED BY ARIZONA DEPARTMENT OF TRANSPORTATION.

REVISIONS			
C.O. NO.	DATE	BY	DESCRIPTION
7982	7-26-89	NRG	Deleted Par. 12-337.
7992	8-24-89	NRG	Re-instated Par. 12-337.
8005	9-20-89	MAH	Rev'd plans as per C & S Rev.

DRAWING NO.	D-12-T-346
HARD COPY	8745 M2
DRAWN.	W.F.M. / S.O.G
CHECKED.	J. HAVINS
GMTS CORPORATION	
ROUTE	S.R. 189
LOCATION	FRANK REED DR. - U.S. 89

ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
RIGHT OF WAY PLANS SERVICES

HIGHWAY: NOGALES PRIMARY CONNECTION

PROJECT NO. F-032-1

SHEET 7 OF 13

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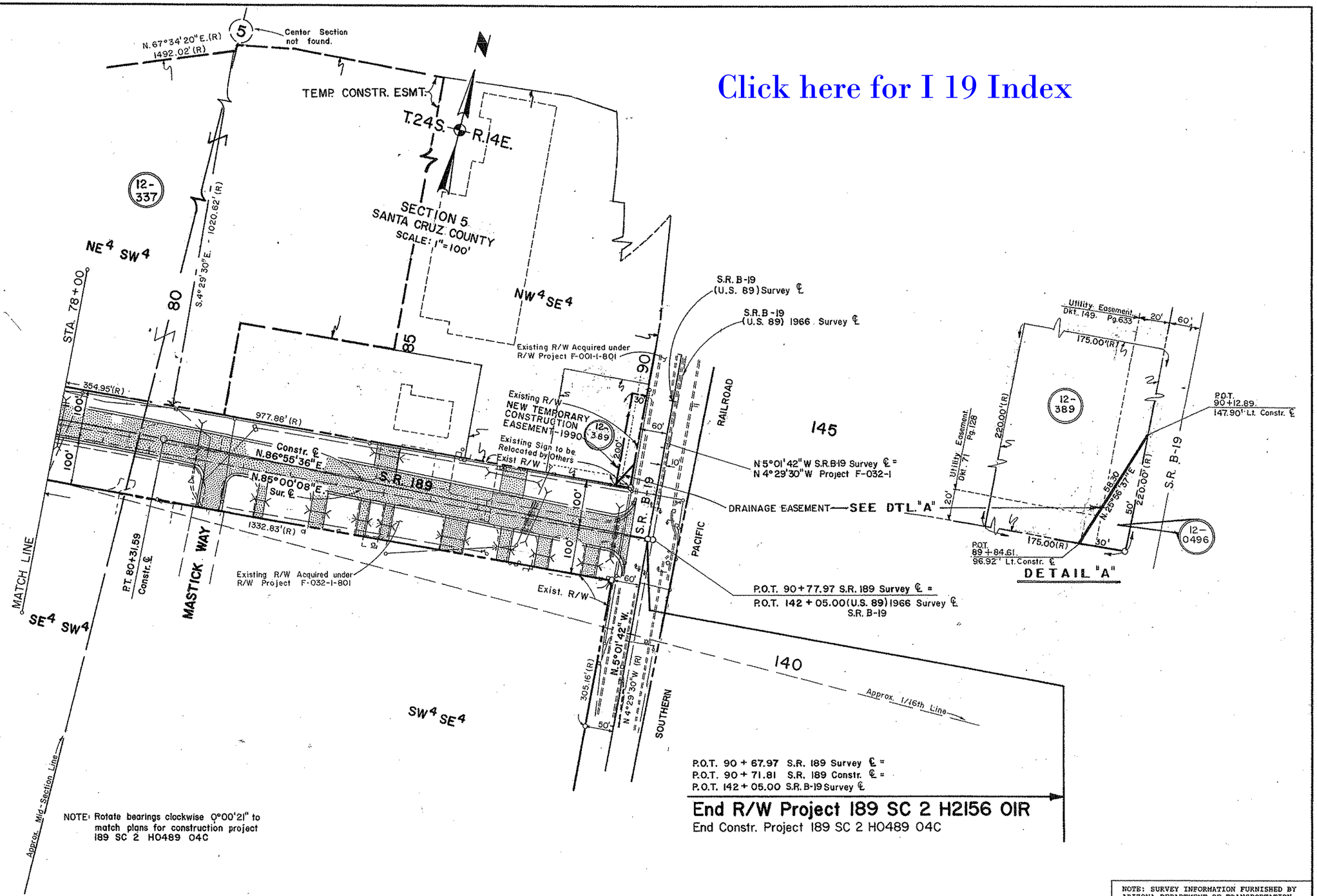

NOTE: Rotate bearings clockwise 0°00'21" to match plans for construction project 189 SC 2 H0489 04C

NOTE: SURVEY INFORMATION FURNISHED BY ARIZONA DEPARTMENT OF TRANSPORTATION.

REVISIONS			
C.O. NO.	DATE	BY	DESCRIPTION
7982	7-26-89	NRG	Deleted Par. 12-337.
7992	8-24-89	NRG	Re-Instated Par 12-337.
8005	9-20-89	MAH	Rev'd plans as per C & S Rev.
8128	4-13-90	MAH	Added Par. 12-337-A & New T.C.E.-1990
9276	12-3-98	MTP	Added New R/W 1998, Dtl."A", & New Par. 12-389.
9330	4-21-99	MTP	Changed R/W, to a DRAINAGE EASEMENT to Par. 12-389

DRAWING NO.	D-12-T-346
HARD COPY	8745 M2
DRAWN	S.O.G.
CHECKED	J. HAVINS
GMTS CORPORATION	
ROUTE	S.R. 189
LOCATION	FRANK REED DR. ~ U.S. 89

ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
RIGHT OF WAY PLANS SERVICES

HIGHWAY: NOGALES PRIMARY CONNECTION

PROJECT NO. F-032-1

CERTIFICATE OF LAND SURVEYOR 18225 DAVID L. SHANE ARIZONA, U.S.A.

SHEET 8 OF 13

189 SC 2 H2156 OIR

OF