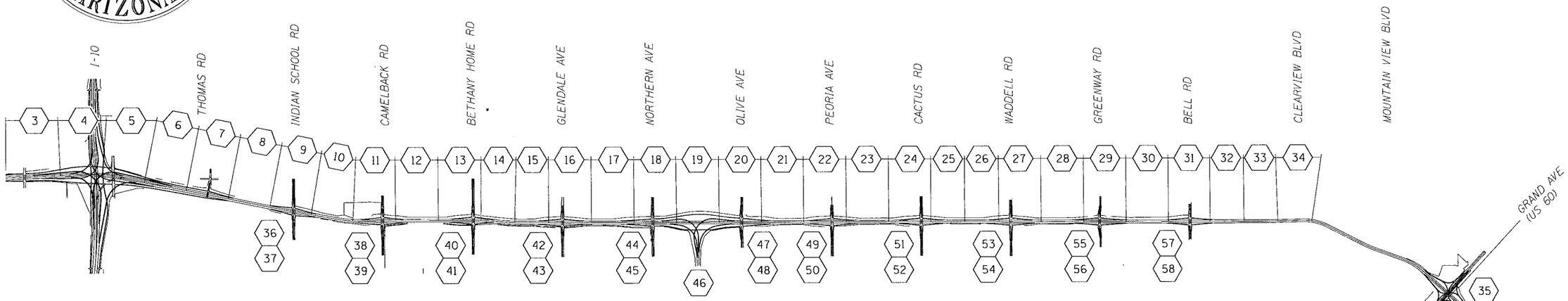
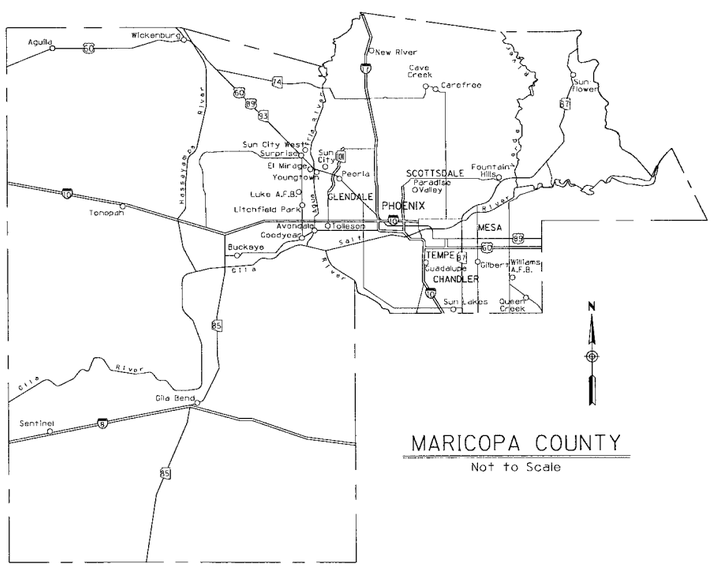
MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION

PLANS FOR THE CONSTRUCTION OF
SR 303L - VAN BUREN TO GRAND AVE (US 60)

PROJECT NO. 69016

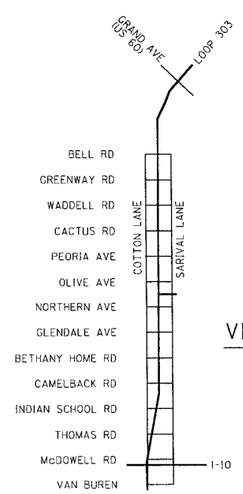


KEY MAP
Not to Scale

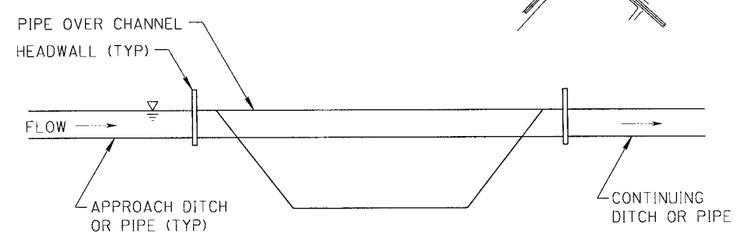


MARICOPA COUNTY
Not to Scale

IRRIGATION AND WELL RELOCATION PLANS CONCEPT DESIGN



VICINITY MAP
Not to Scale



TYPICAL PIPE BRIDGE
OVER FLOOD CHANNEL

Registered Professional Engineer (Civil)
CERTIFICATE NO. 25972
MICHAEL D. HEATON
Date Signed 2-15-06
ARIZONA, U.S.A.

PROJECT ENGINEERING CONSULTANTS, LTD.
2310 W. Mission Lane, Suite 4
Phoenix, Arizona 85021 (602) 906-1901

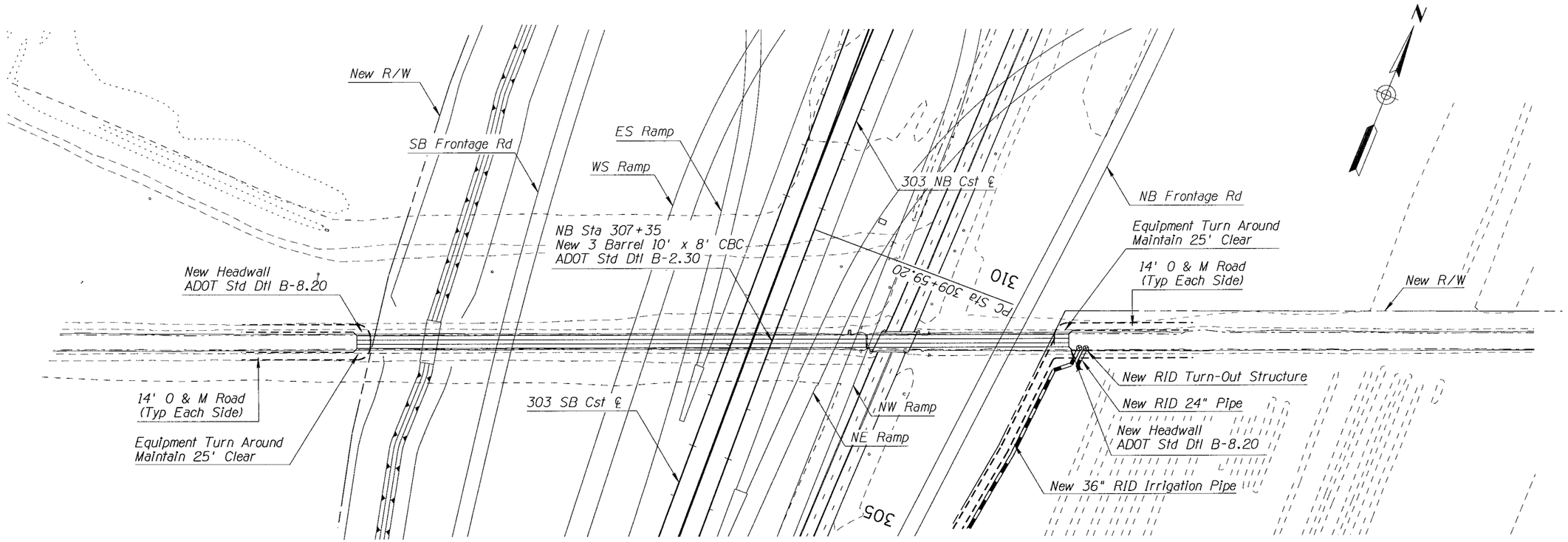
MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION

PRELIMINARY NOT
FOR CONSTRUCTION
OR RECORDING

COUNTY BOARD OF SUPERVISORS

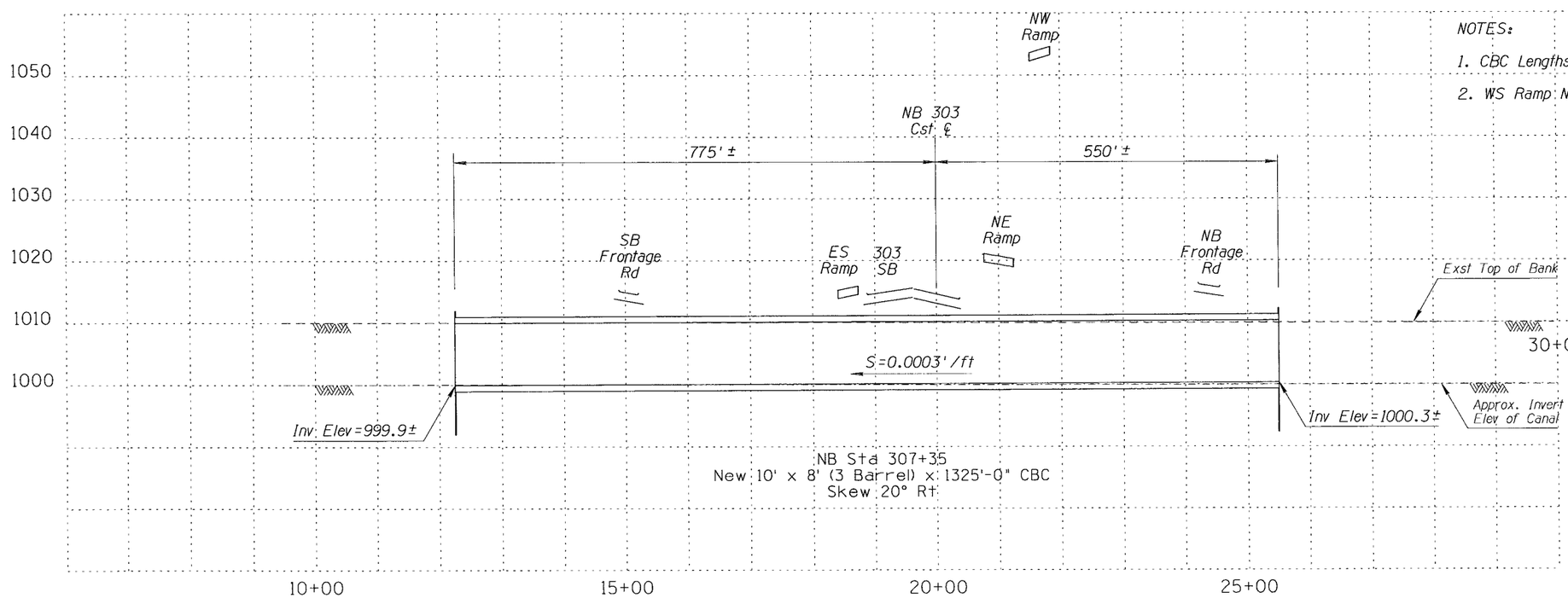
R. FULTON BROCK - CHAIRMAN

DISTRICT 1	R. FULTON BROCK
DISTRICT 2	DON STAPLEY
DISTRICT 3	ANDREW W. KUNASEK
DISTRICT 4	MAX WILSON
DISTRICT 5	MARY ROSE WILCOX



NOTES:

1. CBC Lengths And Inverts are Approximate
2. WS Ramp Not Shown In Profile Due To Elevation



DETAIL D1

IRRIGATION & WELL RELOCATION PLANS

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

SR 303L
VAN BUREN TO GRAND AVE (US 60)
WORK ORDER NO. 69016

	BY	DATE
DESIGNED	M. HEATON	02/06
DRAWN	J. GRIBBLE	02/06
CHECKED	S. MILLER	02/06

PRELIMINARY
NOT FOR
CONSTRUCTION
2-15-06

PROJECT ENGINEERING CONSULTANTS, LTD.
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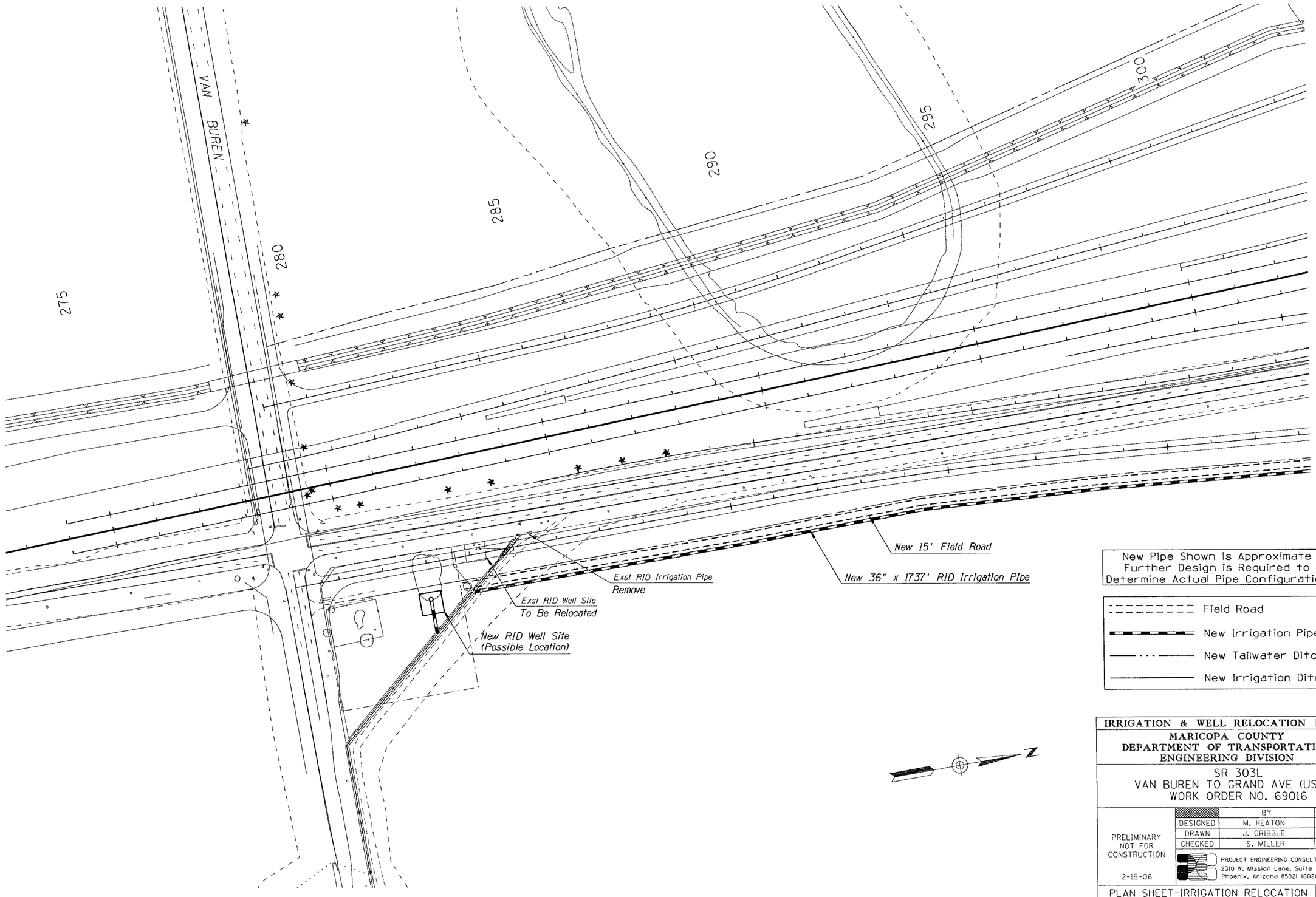
Phoenix, Arizona 85021 (602) 906-1901

CULVERT DETAIL SHEET - D1
NB Sta 307+35

SHEET OF
2 58



New Pipe Shown is Approximate
Further Design is Required to
Determine Actual Pipe Configuration

Field Road
New Irrigation Pipe
New Tailwater Ditch
New Irrigation Ditch

IRRIGATION & WELL RELOCATION PLANS

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

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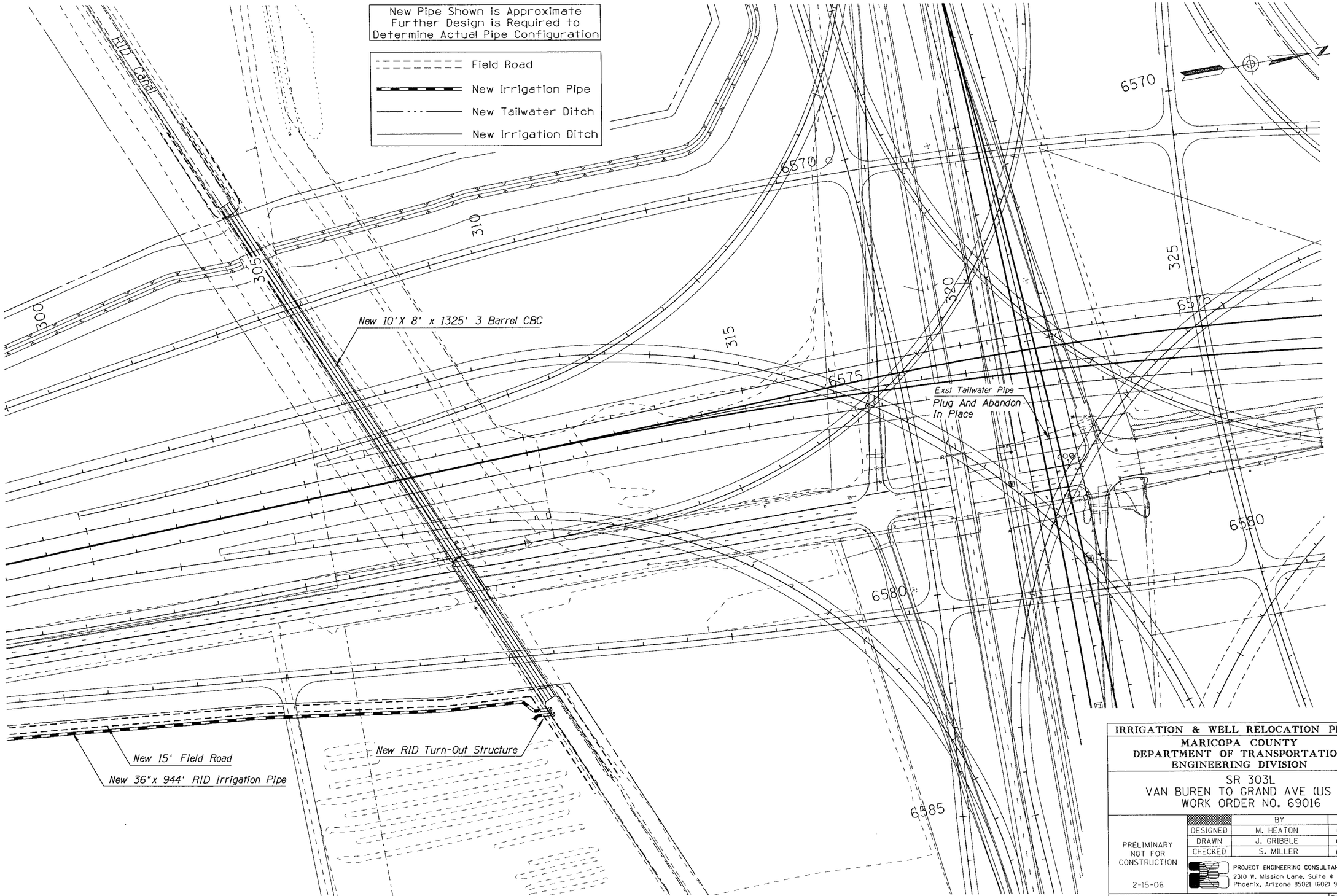
Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
Sta 275+00 to 300+00

SHEET 3 OF 58



IRRIGATION & WELL RELOCATION PLANS

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

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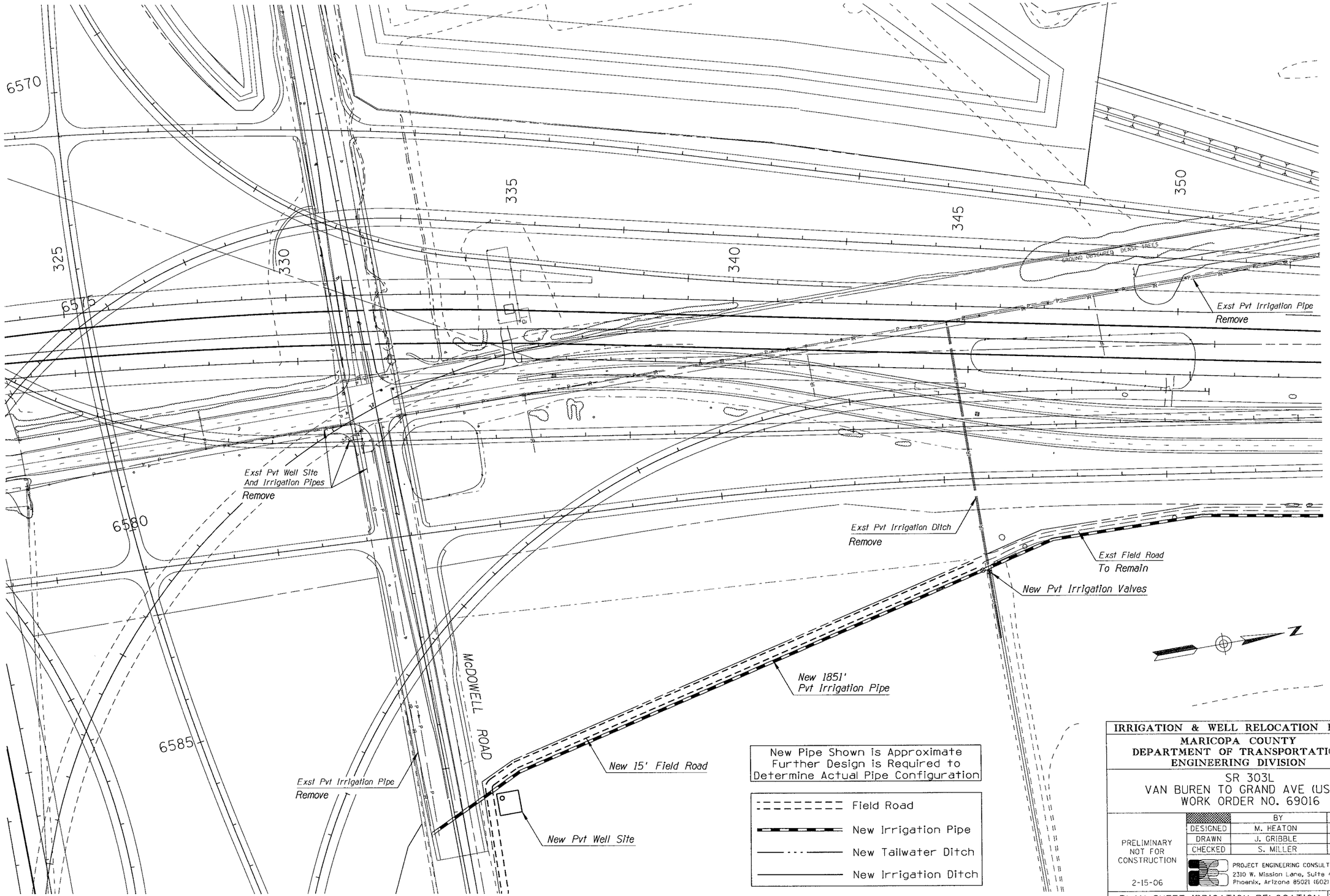
Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
Sta 300+00 to 325+00

SHEET 4 OF 58



IRRIGATION & WELL RELOCATION PLANS

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

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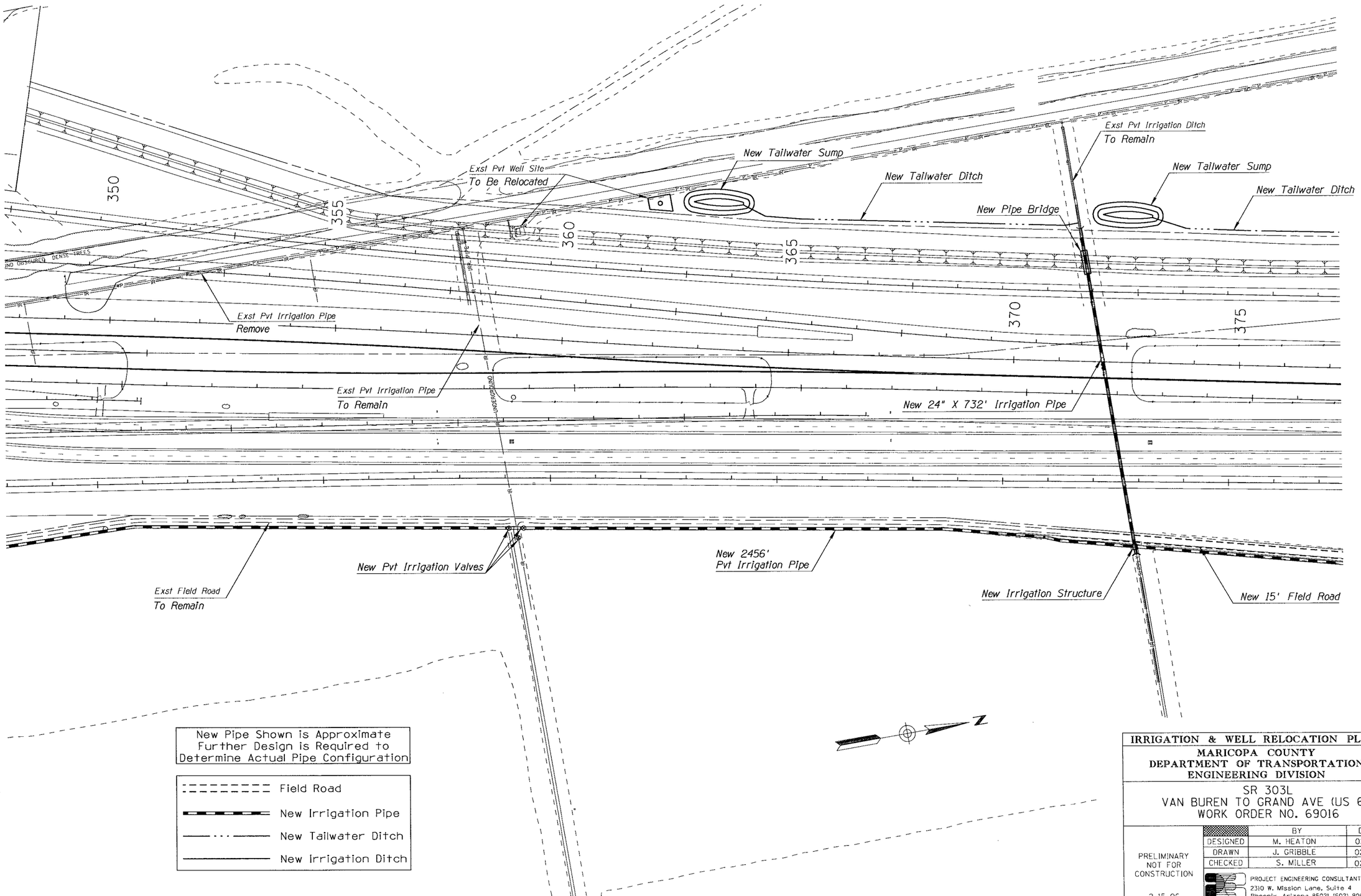
2310 W. Mission Lane, Suite 4
Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
Sta 325+00 to 350+00

SHEET 5 OF 58



IRRIGATION & WELL RELOCATION PLANS

MARICOPA COUNTY
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ENGINEERING DIVISION

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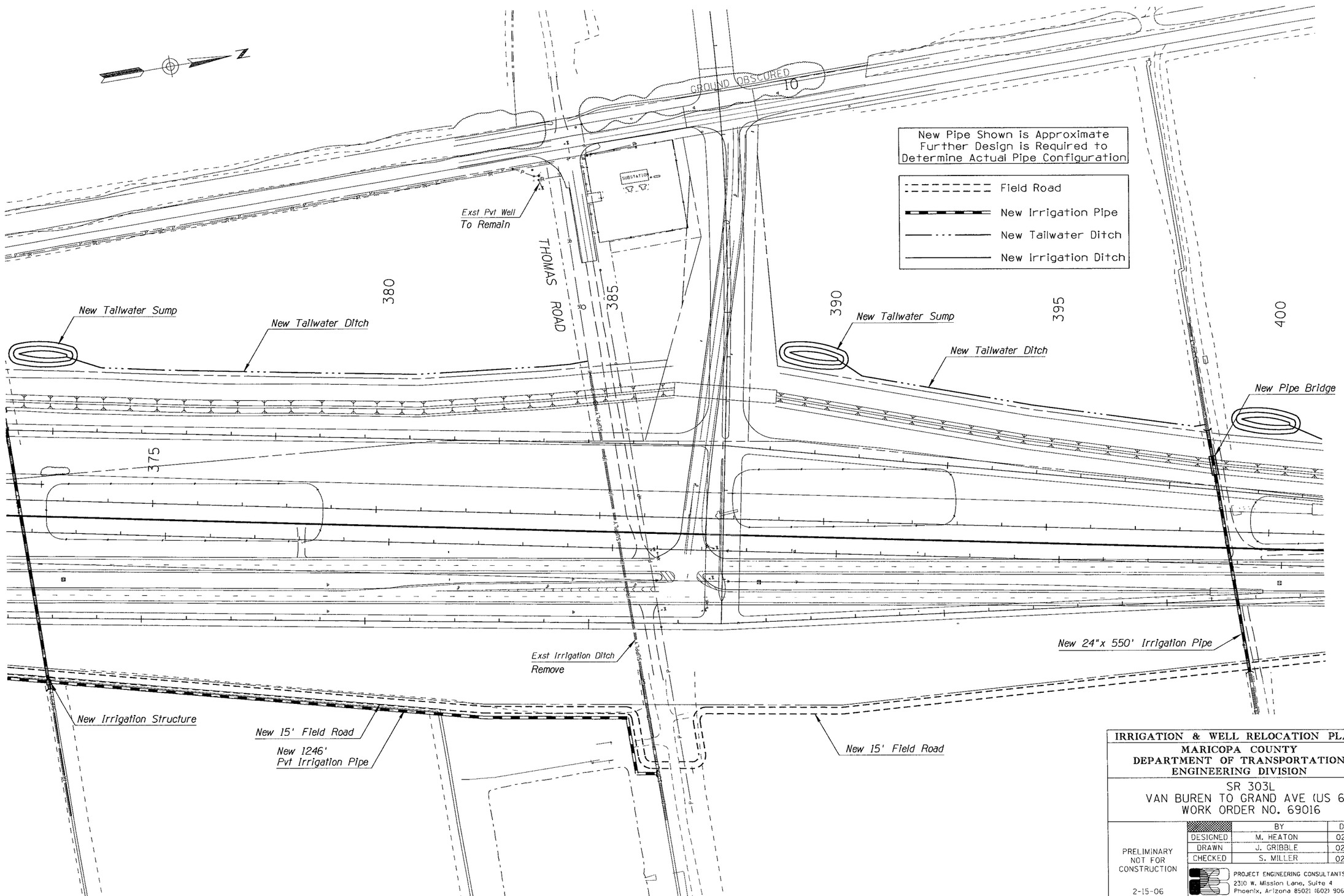
2310 W. Mission Lane, Suite 4
Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
Sta 350+00 to 375+00

SHEET 6 OF 58



IRRIGATION & WELL RELOCATION PLANS

MARICOPA COUNTY
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ENGINEERING DIVISION

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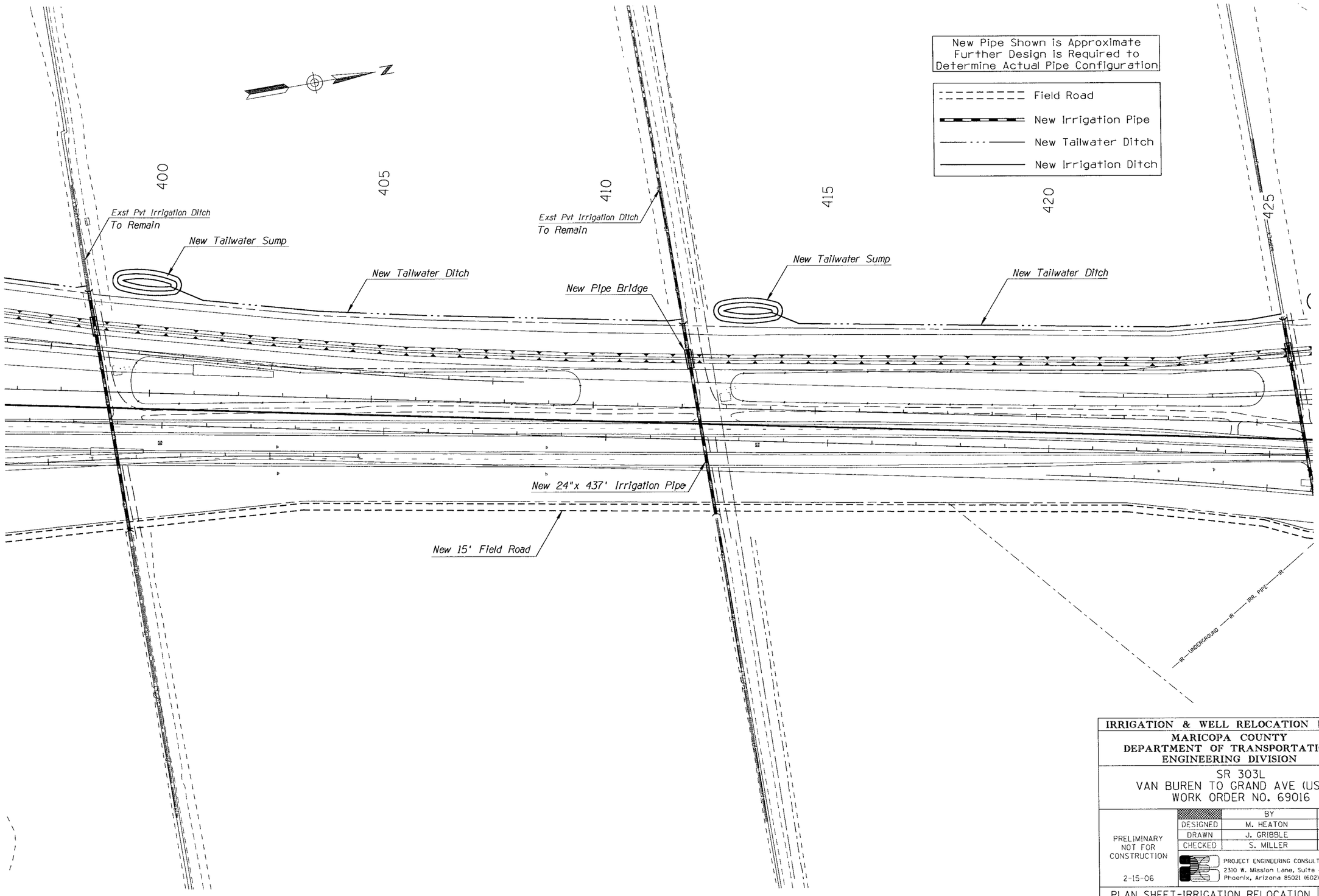
Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
Sta 375+00 to 400+00

SHEET 7 OF 58



IRRIGATION & WELL RELOCATION PLANS

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

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2-15-06

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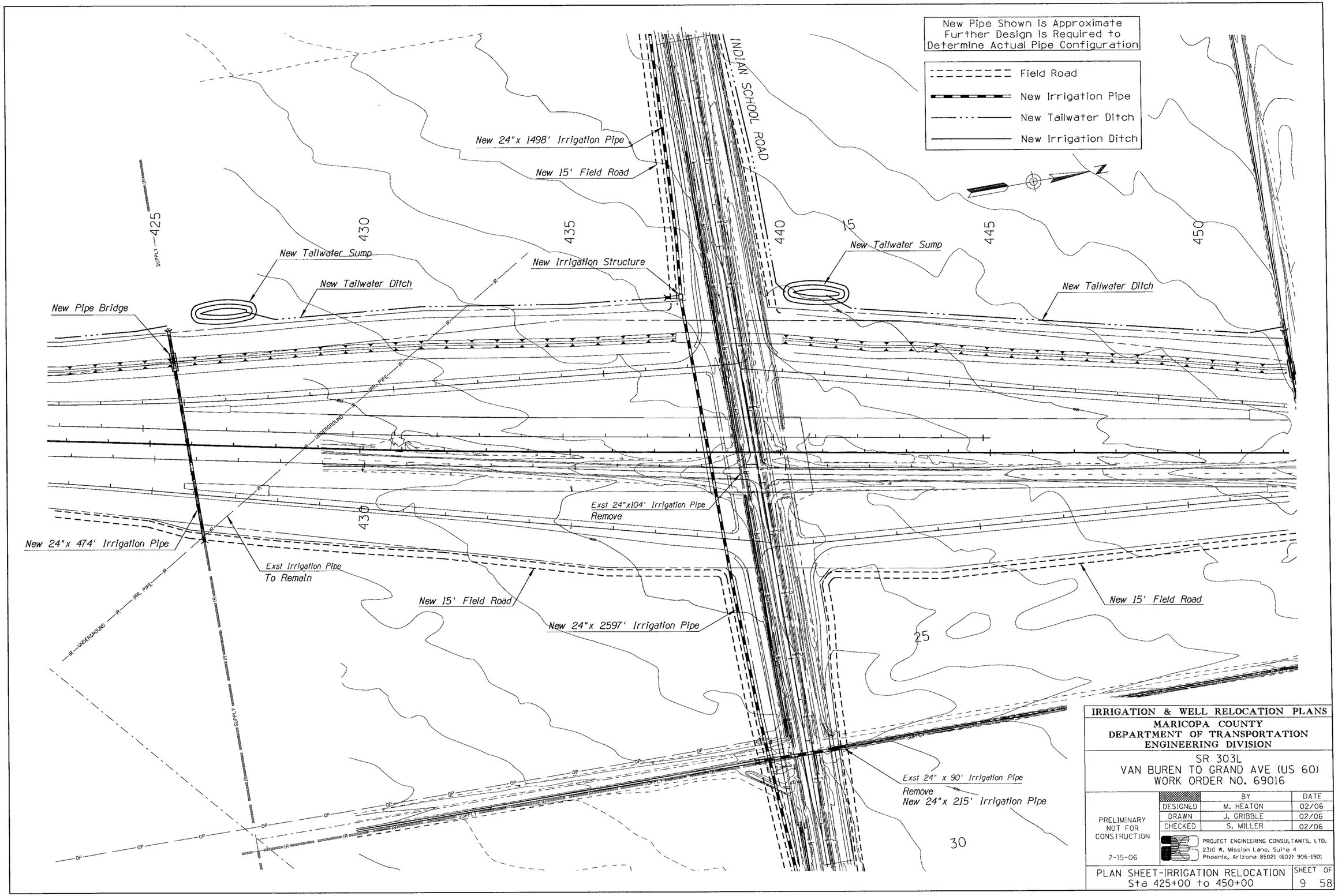
2310 W. Mission Lane, Suite 4
Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
Sta 400+00 to 425+00

SHEET 8 OF 58



IRRIGATION & WELL RELOCATION PLANS

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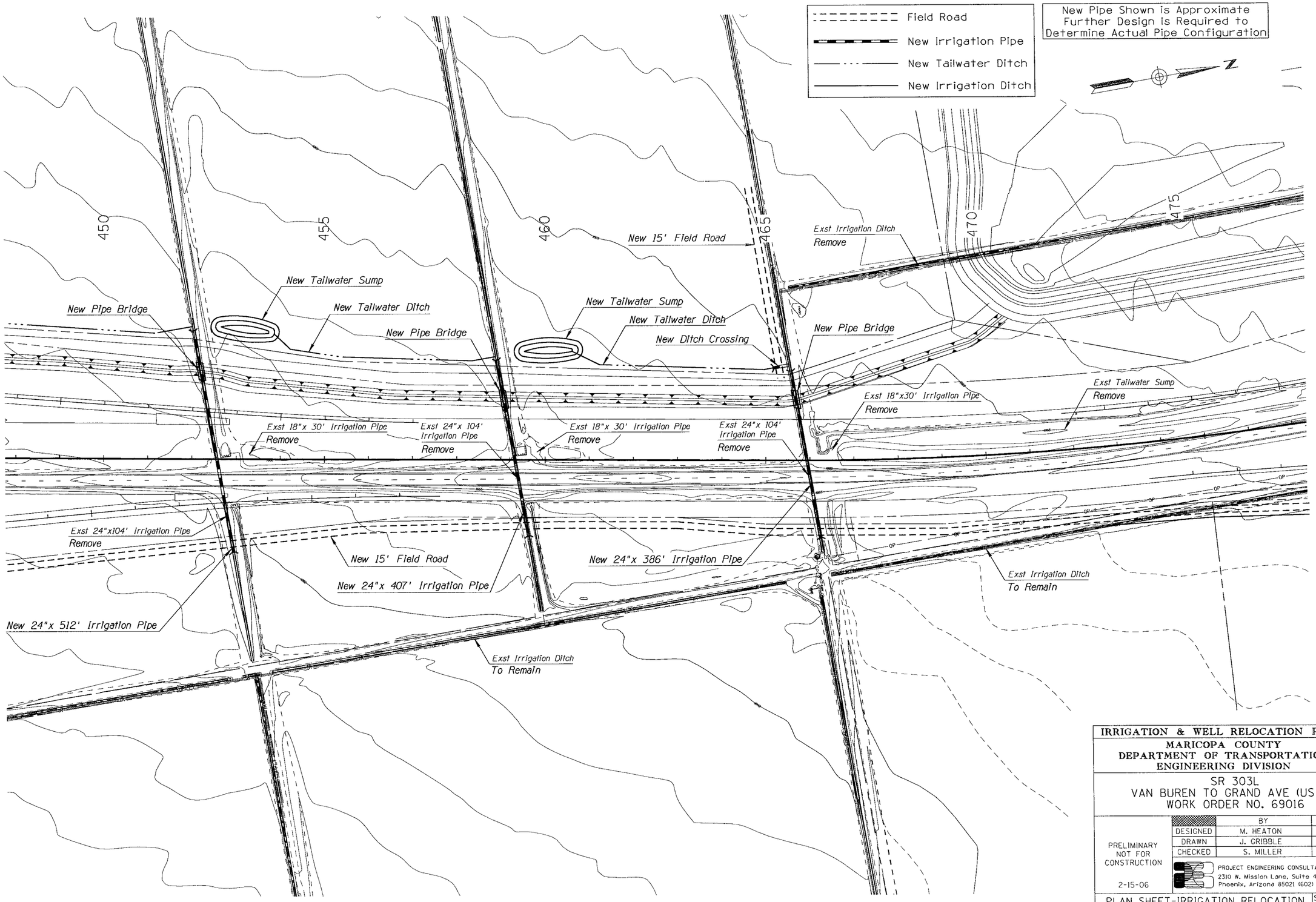
Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
Sta 425+00 to 450+00

SHEET OF
9 58



IRRIGATION & WELL RELOCATION PLANS

MARICOPA COUNTY
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Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
Sta 450+00 to 475+00

SHEET OF
10 58

New Pipe Shown is Approximate
Further Design is Required to
Determine Actual Pipe Configuration

Field Road
New Irrigation Pipe
New Tailwater Ditch
New Irrigation Ditch

CAMELBACK ROAD

475
480
485
490
495
500
10
15
25

Exst Sucor Irrigation Pipe
Remove

Exst Tailwater Sump

New Ditch Crossing

New Tailwater Ditch

Exst Irrigation Pipe
Remove

Exst 18"x 20' Tailwater Pipe
Remove

Exst 24"x 30' Tailwater Pipe
Remove

Exst Suncor Irrigation Structure
Remove

Exst Tailwater Sump
Remove

Exst Suncor Well Site
Remove

Exst Irrigation Ditch
Remove

Exst Irrigation Structure
Remove

New Irrigation Structure

New 15' Field Road

New Concrete Irrigation Ditch

New Suncor Well Site

New Irrigation Structure

Exst Irrigation Ditch
To Remain

New Valve Turnout

New 15' Field Road

New 18"x 579'
AWC Irrigation Pipe

New Concrete Irrigation Ditch

IRRIGATION & WELL RELOCATION PLANS

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

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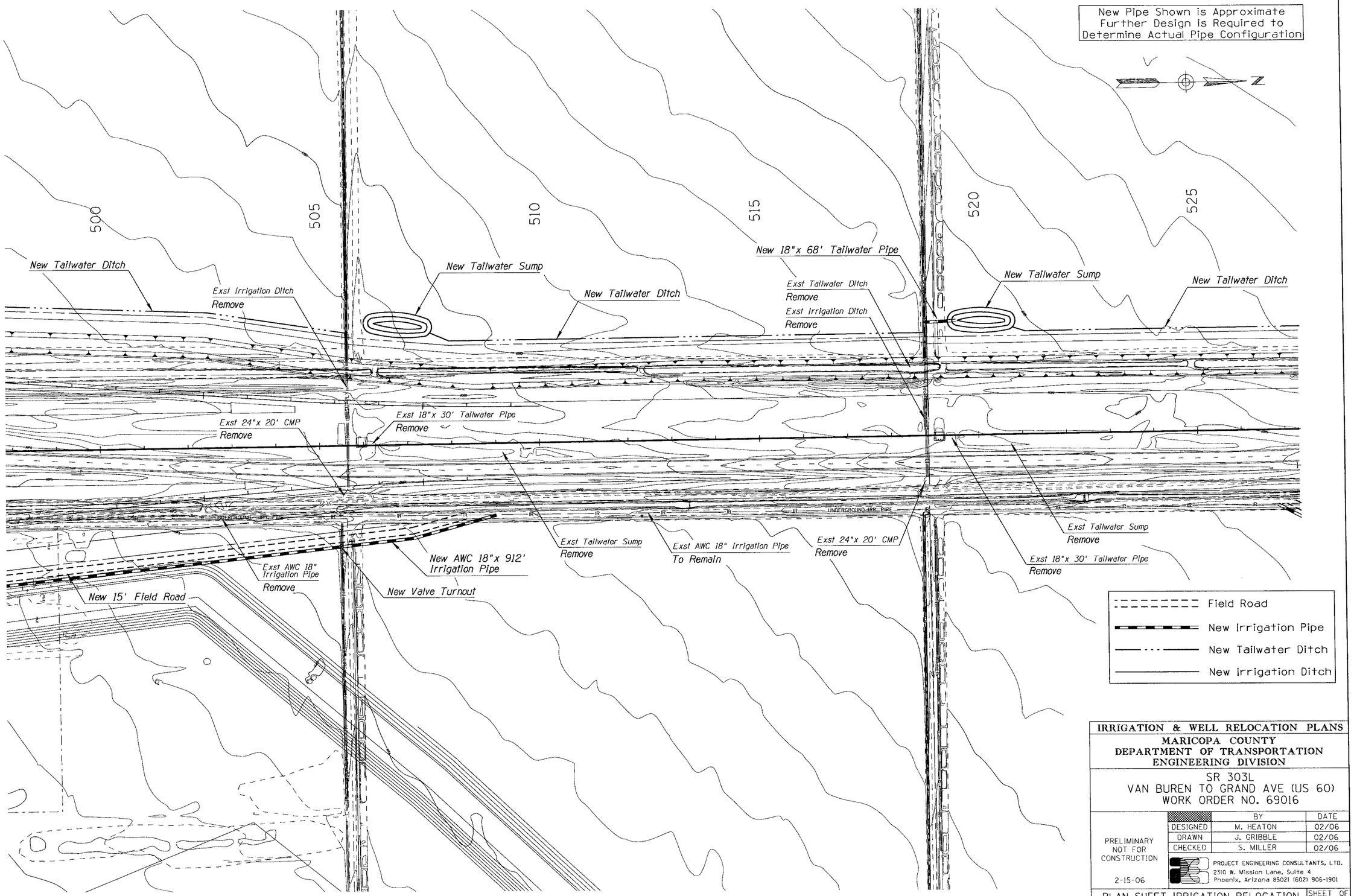
Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
Sta 475+00 to 500+00

SHEET 11 OF 58



IRRIGATION & WELL RELOCATION PLANS

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

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2-15-06

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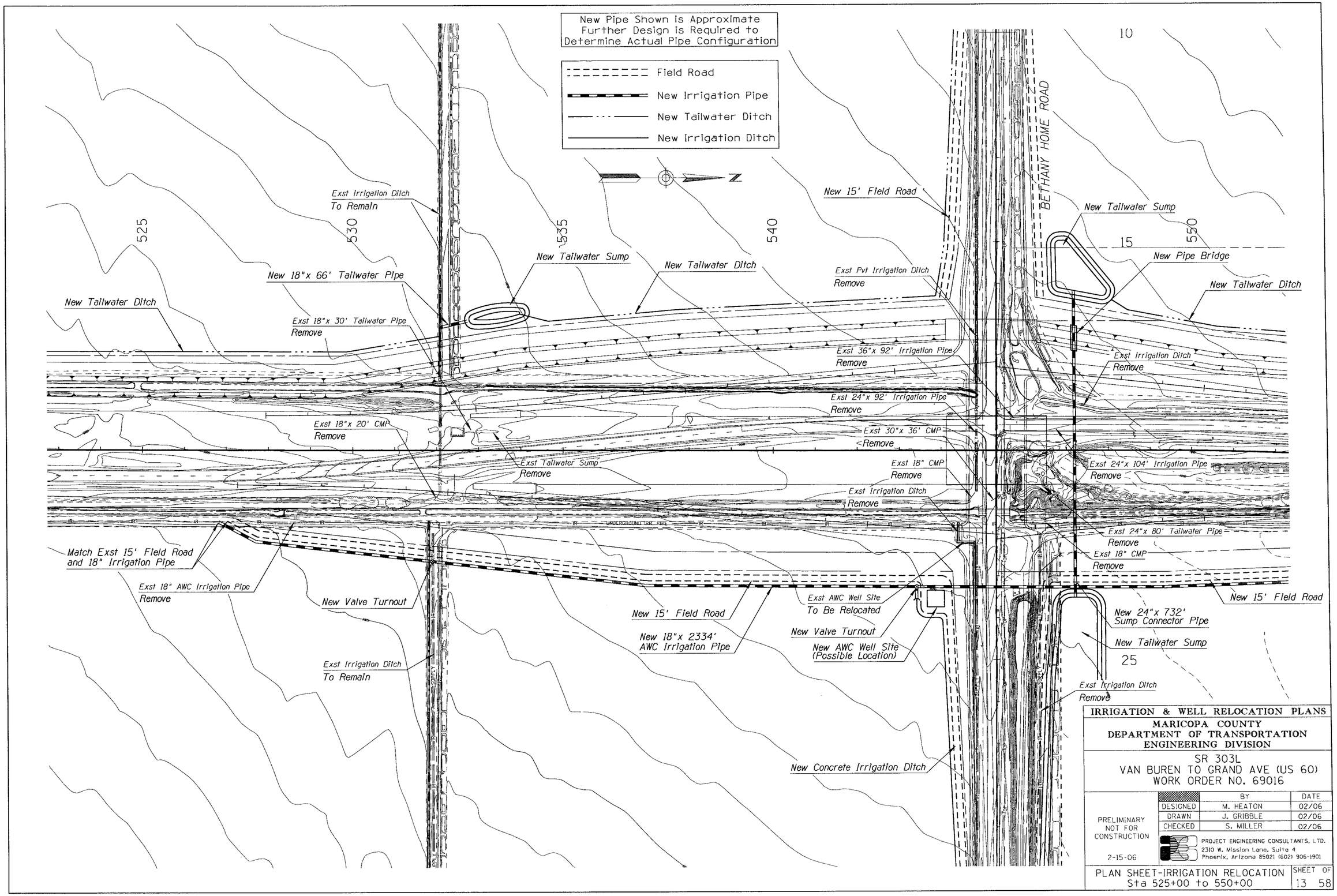
2310 W. Mission Lane, Suite 4
Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
Sta 500+00 to 525+00

SHEET 12 OF 58



IRRIGATION & WELL RELOCATION PLANS

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

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2310 W. Mission Lane, Suite 4
Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
Sta 525+00 to 550+00

SHEET 13 OF 58

New Pipe Shown is Approximate
Further Design is Required to
Determine Actual Pipe Configuration

Field Road
New Irrigation Pipe
New Tailwater Ditch
New Irrigation Ditch

N

10
15
25
30
550
555
560
565
570

New 15' Field Road
New Tailwater Sump
New Pipe Bridge
New Tailwater Ditch
Exst Irrigation Ditch
Remove
Exst Pvt Irrigation Ditch
To Remain
Exst Pvt Irrigation Ditch
Remove
Exst Tailwater Pipe
Remove
Exst Dirt Ditch
Remove
UNDERGD. IRR. PIPE
Exst Pvt Irrigation Ditch
To Remain
Exst Pvt Irrigation Ditch
Remove
Exst 24"x 100' Irrigation Pipe
Remove
UNDERGROUND IRR. LINE
24" UNDERGROUND IRR. LINE
Exst Dirt Ditch
Remove
Exst AWC Well Site
To Be Relocated
New 15' Field Road
New Pvt Irrigation Valve
Exst 18" AWC Irrigation Pipe
Remove
Exst Pvt Irrigation Ditch
Remove
New 18"x 1995'
AWC Irrigation Pipe
New Pvt Irrigation Valve
New AWC Well Site
(Possible Location)
Exst Pvt Irrigation Ditch
To Remain
Exst Pvt Irrigation Ditch
To Remain
New Tailwater Sump

IRRIGATION & WELL RELOCATION PLANS

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

SR 303L
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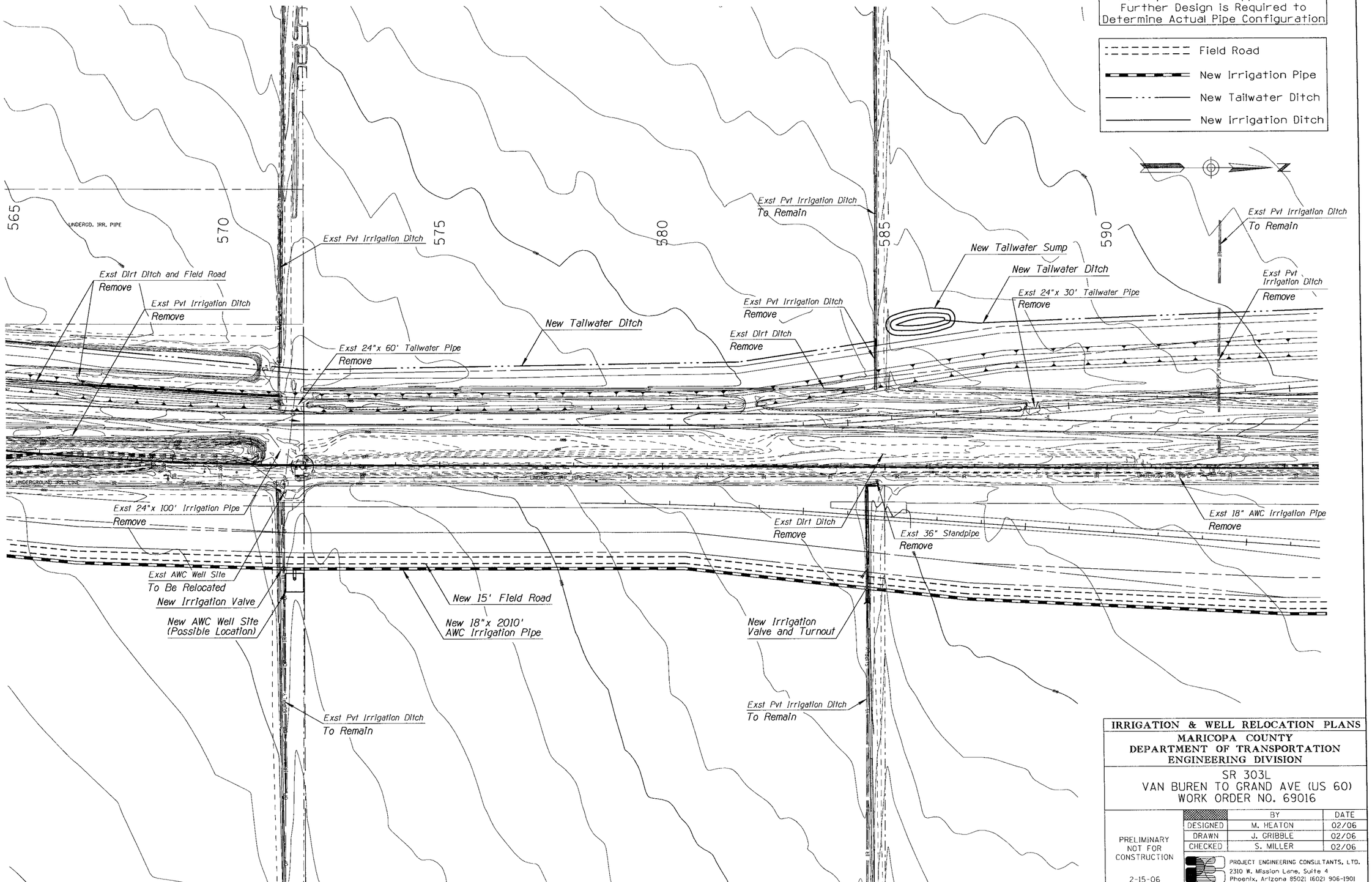
PROJECT ENGINEERING CONSULTANTS, LTD.
2310 W. Mission Lane, Suite 4
Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
Sta 550+00 to 570+00

SHEET 14 OF 58



IRRIGATION & WELL RELOCATION PLANS

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

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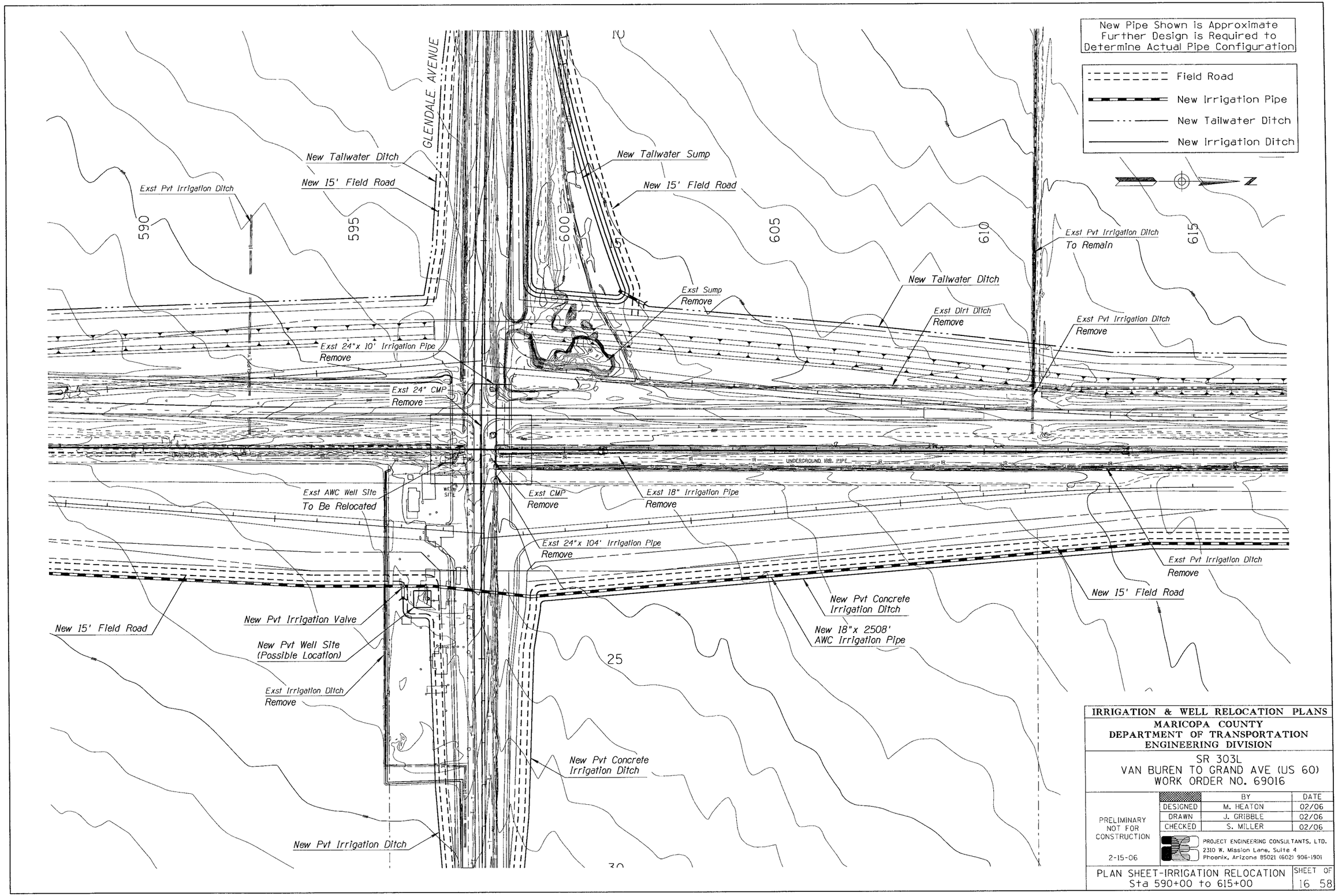
PLAN SHEET-IRRIGATION RELOCATION
Sta 570+00 to 590+00

SHEET 15 OF 58



IRRIGATION & WELL RELOCATION PLANS

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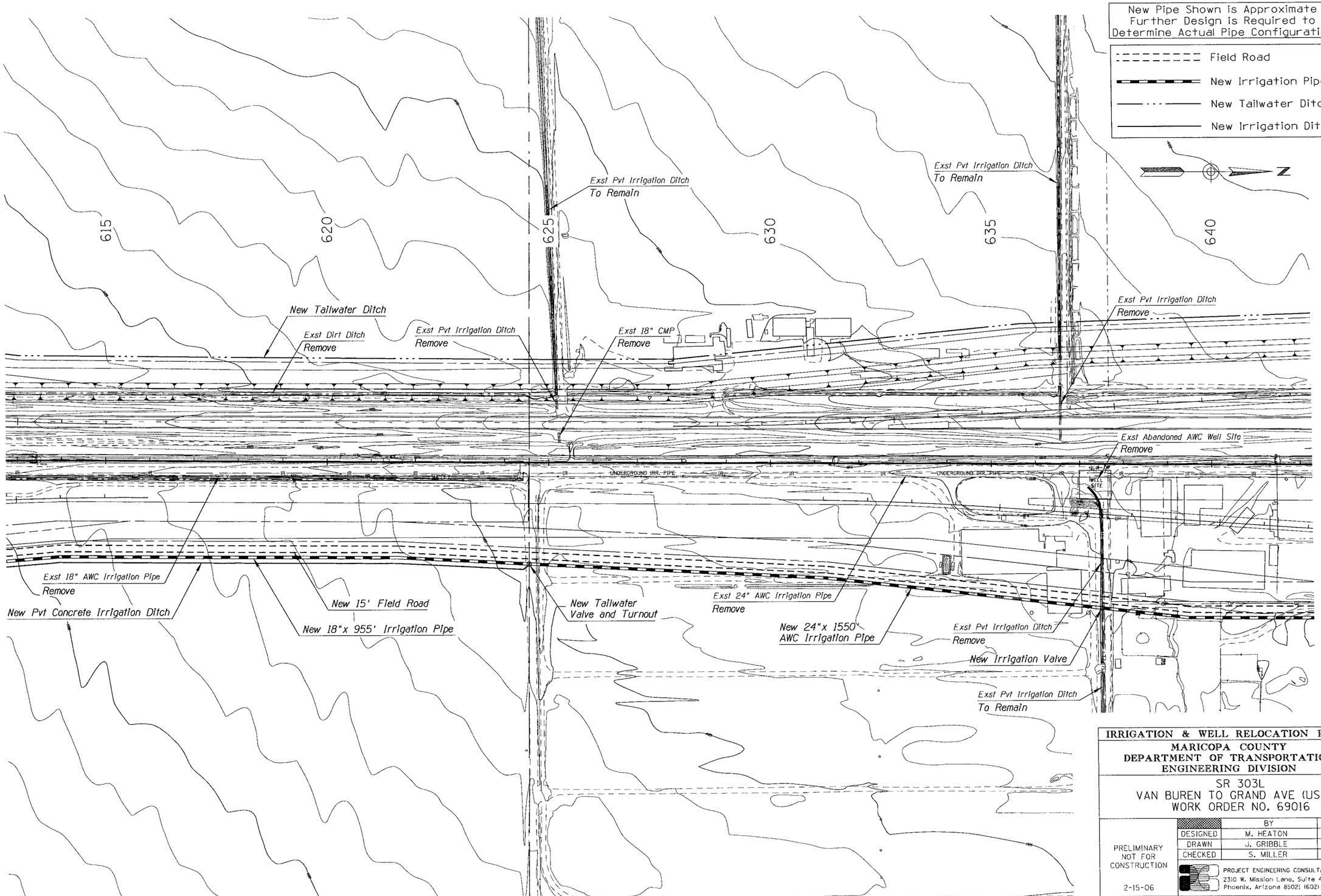
Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
Sta 590+00 to 615+00

SHEET 16 OF 58



IRRIGATION & WELL RELOCATION PLANS

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Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
Sta 615+00 to 640+00

SHEET 17 OF 58

New Pipe Shown is Approximate
Further Design is Required to
Determine Actual Pipe Configuration

Field Road
New Irrigation Pipe
New Tailwater Ditch
New Irrigation Ditch

N

NORTHERN AVENUE

New 15' Field Road

New Pvt Irrigation Structure

New 18"x 741'
Pvt Irrigation Pipe

New Tailwater Ditch

Exst Pvt Irrigation Ditch
Remove

Exst 24"x 84' Irrigation Ditch
Remove

Exst Pvt Irr Ditch
Remove

Exst AWC Irr Structure
Remove

Exst 3-24"x 252' Tailwater Pipe
Remove

Exst 24" AWC Irrigation Pipe
Remove

Exst 18" PVC Pipe
Remove

Exst 4-24"x 336' Tailwater Pipe
Remove

Exst Pvt Irrigation Ditch
Remove

Exst 24" CMP
Remove

Exst Pvt Irrigation Structure
Remove

New 15' Field Road

New Pvt Concrete Irrigation Ditch

Exst Pvt Irrigation Ditch
Remove

New Pvt Irrigation Structure

New 15' Field Road

New Pvt Irrigation Structure

New 24"x 943' Irrigation Pipe

Exst Pvt Irrigation Ditch
To Remain

New Tailwater Sump

640
645
650
655
660
665
10
15
25
30

IRRIGATION & WELL RELOCATION PLANS			
MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION			
SR 303L VAN BUREN TO GRAND AVE (US 60) WORK ORDER NO. 69016			
PRELIMINARY NOT FOR CONSTRUCTION 2-15-06		BY	DATE
	DESIGNED	M. HEATON	02/06
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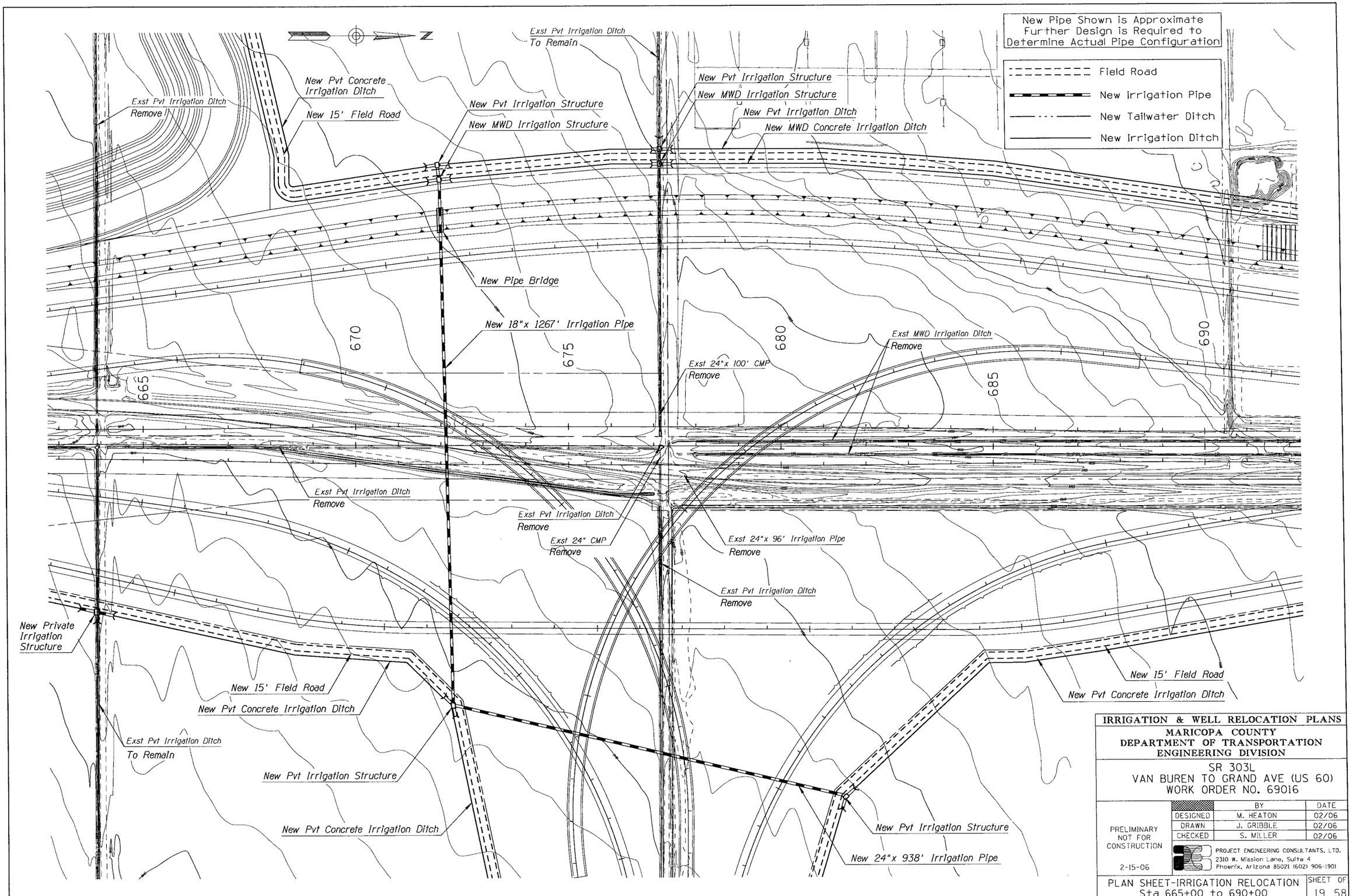
	CHECKED	S. MILLER	02/06
	PROJECT ENGINEERING CONSULTANTS, LTD. 2310 W. Mission Lane, Suite 4 Phoenix, Arizona 85021 (602) 906-1901		
PLAN SHEET-IRRIGATION RELOCATION Sta 640+00 to 665+00		SHEET OF 18 58	



IRRIGATION & WELL RELOCATION PLANS

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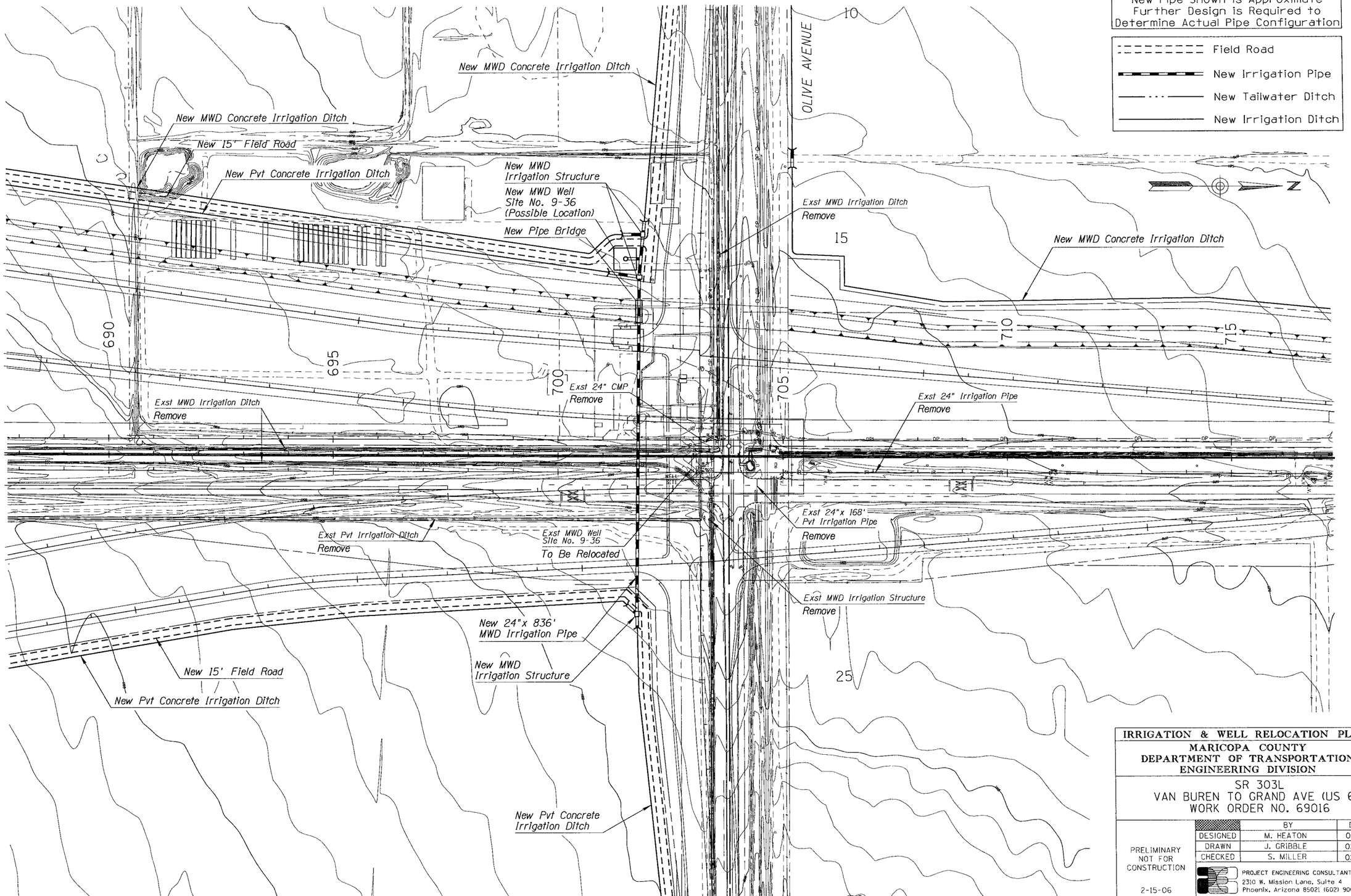
2310 W. Mission Lane, Suite 4
Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
Sta 665+00 to 690+00

SHEET 19 OF 58



IRRIGATION & WELL RELOCATION PLANS

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

SR 303L
VAN BUREN TO GRAND AVE (US 60)
WORK ORDER NO. 69016

	BY	DATE
DESIGNED	M. HEATON	02/06
DRAWN	J. GRIBBLE	02/06
CHECKED	S. MILLER	02/06

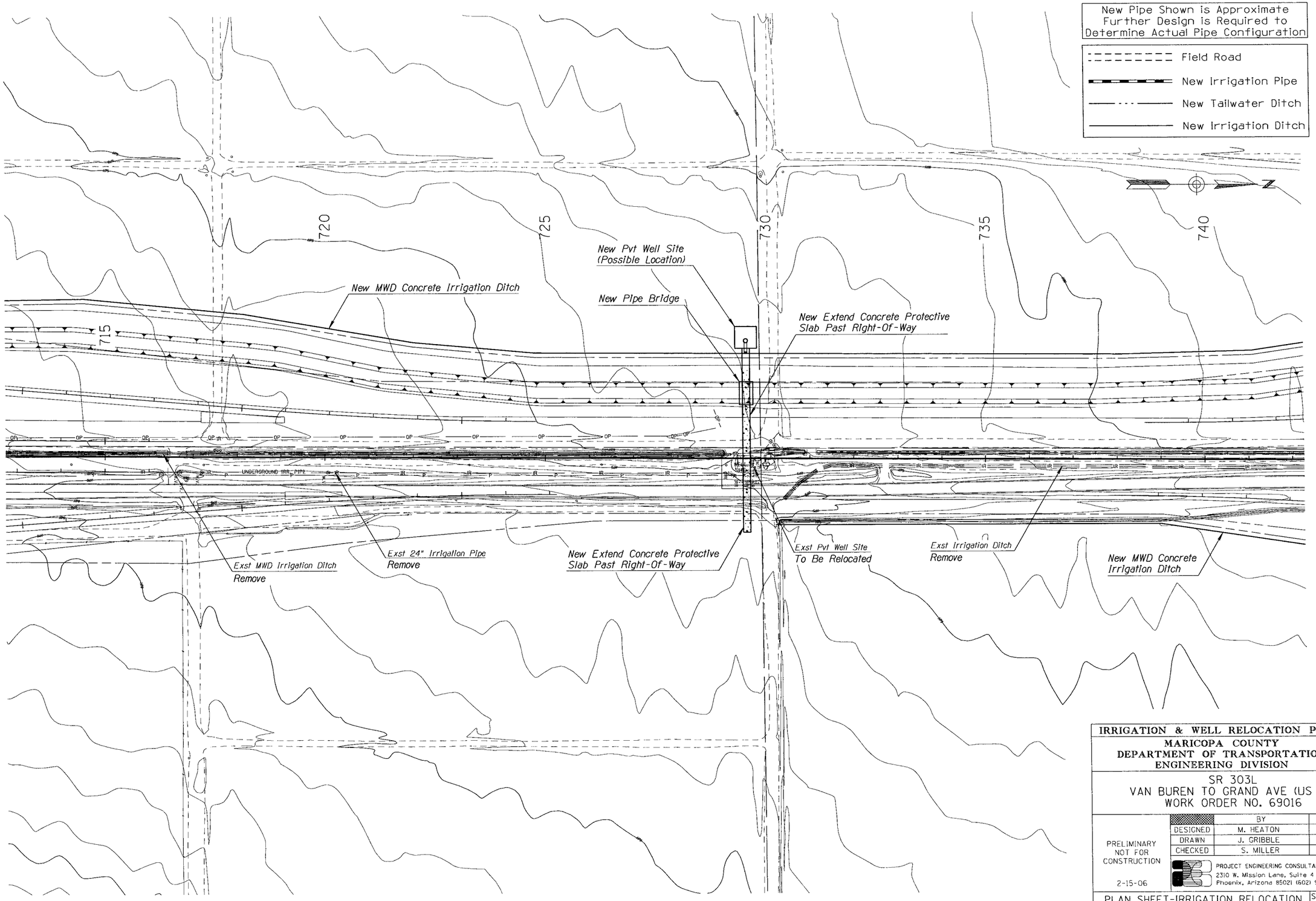
PRELIMINARY
NOT FOR
CONSTRUCTION

2-15-06

PROJECT ENGINEERING CONSULTANTS, LTD.
2310 W. Mission Lane, Suite 4
Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
Sta 690+00 to 715+00

SHEET 20 OF 58



IRRIGATION & WELL RELOCATION PLANS

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DEPARTMENT OF TRANSPORTATION
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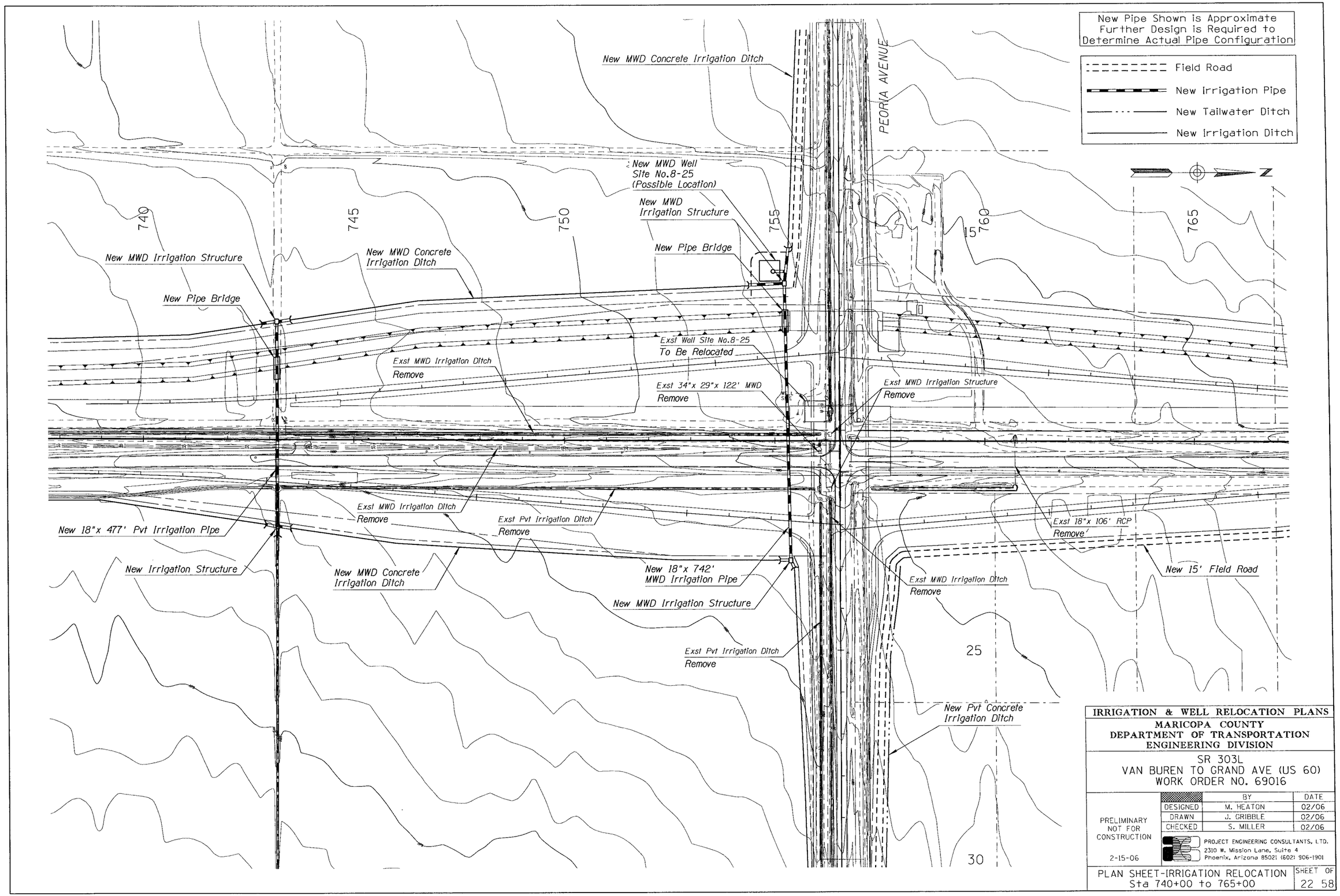
PLAN SHEET-IRRIGATION RELOCATION
Sta 715+00 to 740+00

SHEET 21 OF 58



IRRIGATION & WELL RELOCATION PLANS

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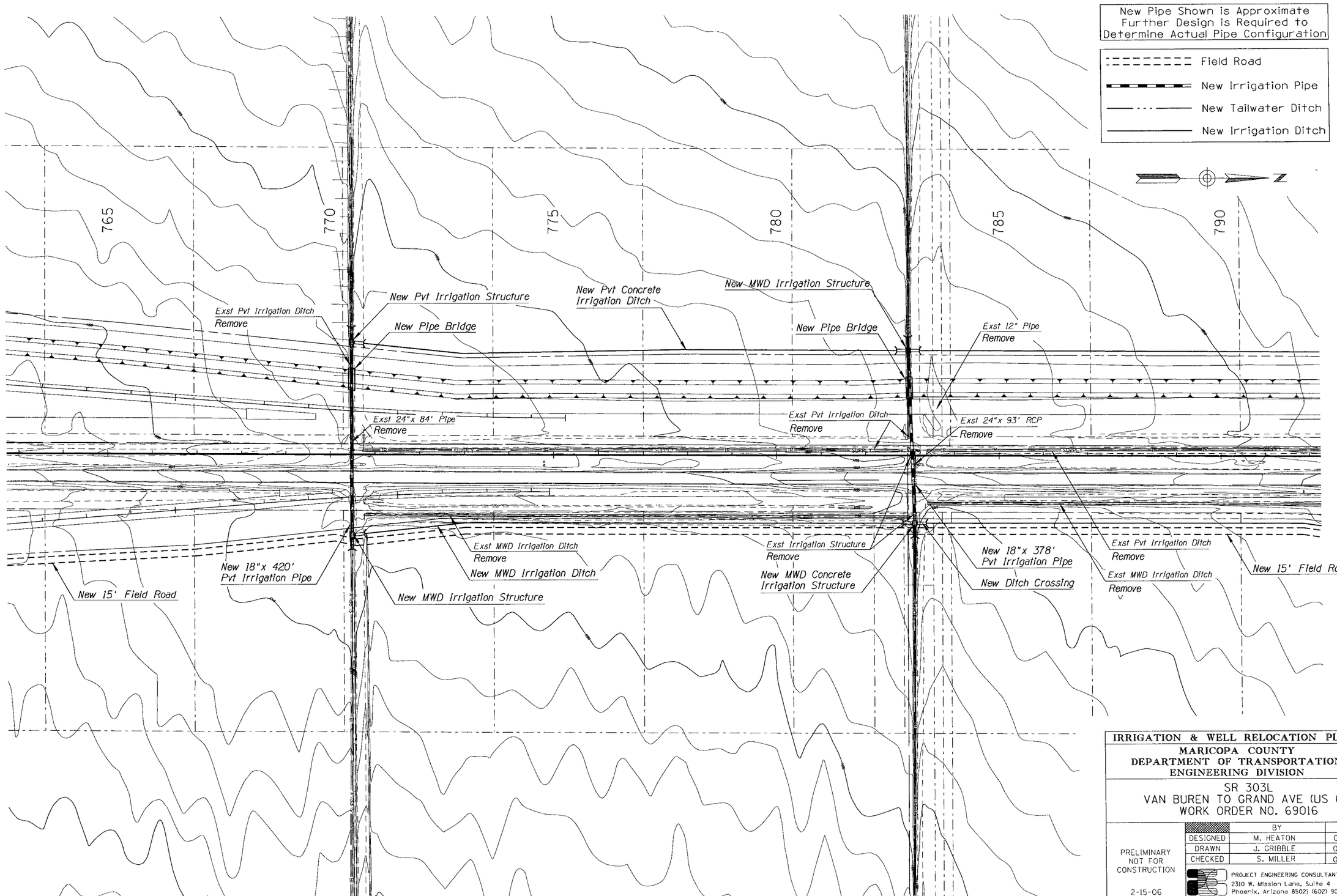
PLAN SHEET-IRRIGATION RELOCATION
Sta 740+00 to 765+00

SHEET 22 OF 58



IRRIGATION & WELL RELOCATION PLANS

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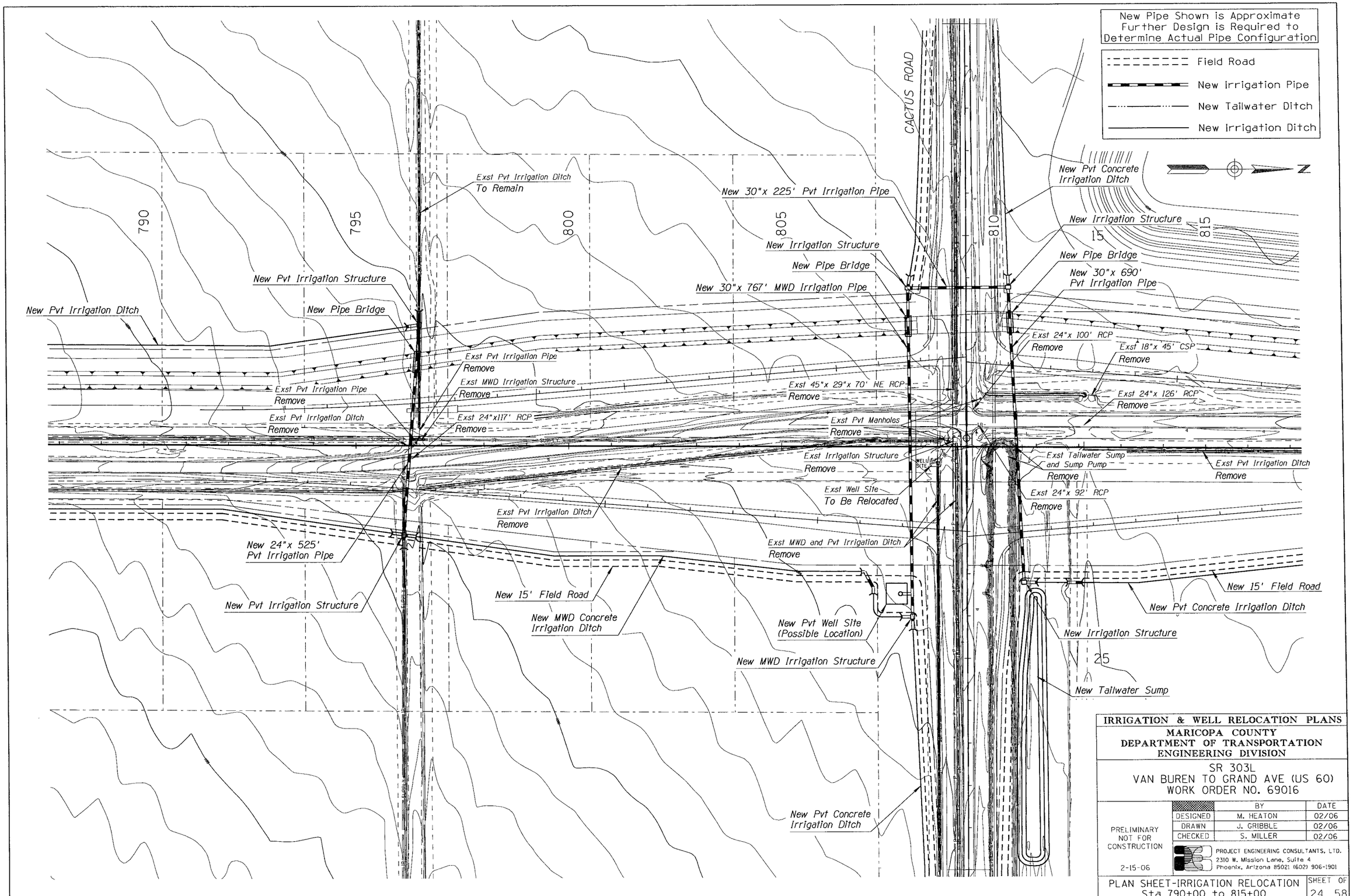
PLAN SHEET-IRRIGATION RELOCATION
Sta 765+00 to 790+00

SHEET OF
23 58



IRRIGATION & WELL RELOCATION PLANS

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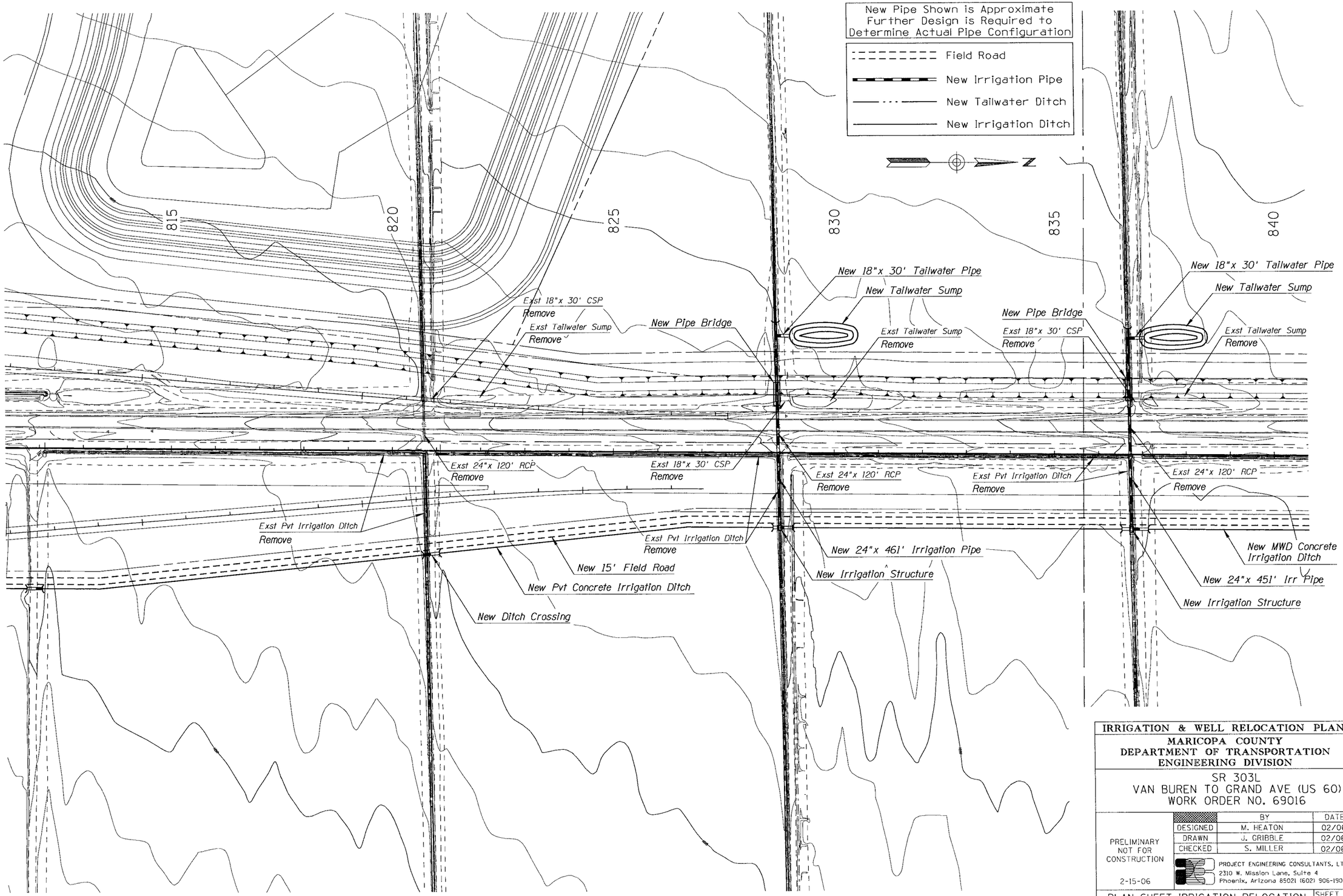
PLAN SHEET-IRRIGATION RELOCATION
Sta 790+00 to 815+00

SHEET 24 OF 58



IRRIGATION & WELL RELOCATION PLANS

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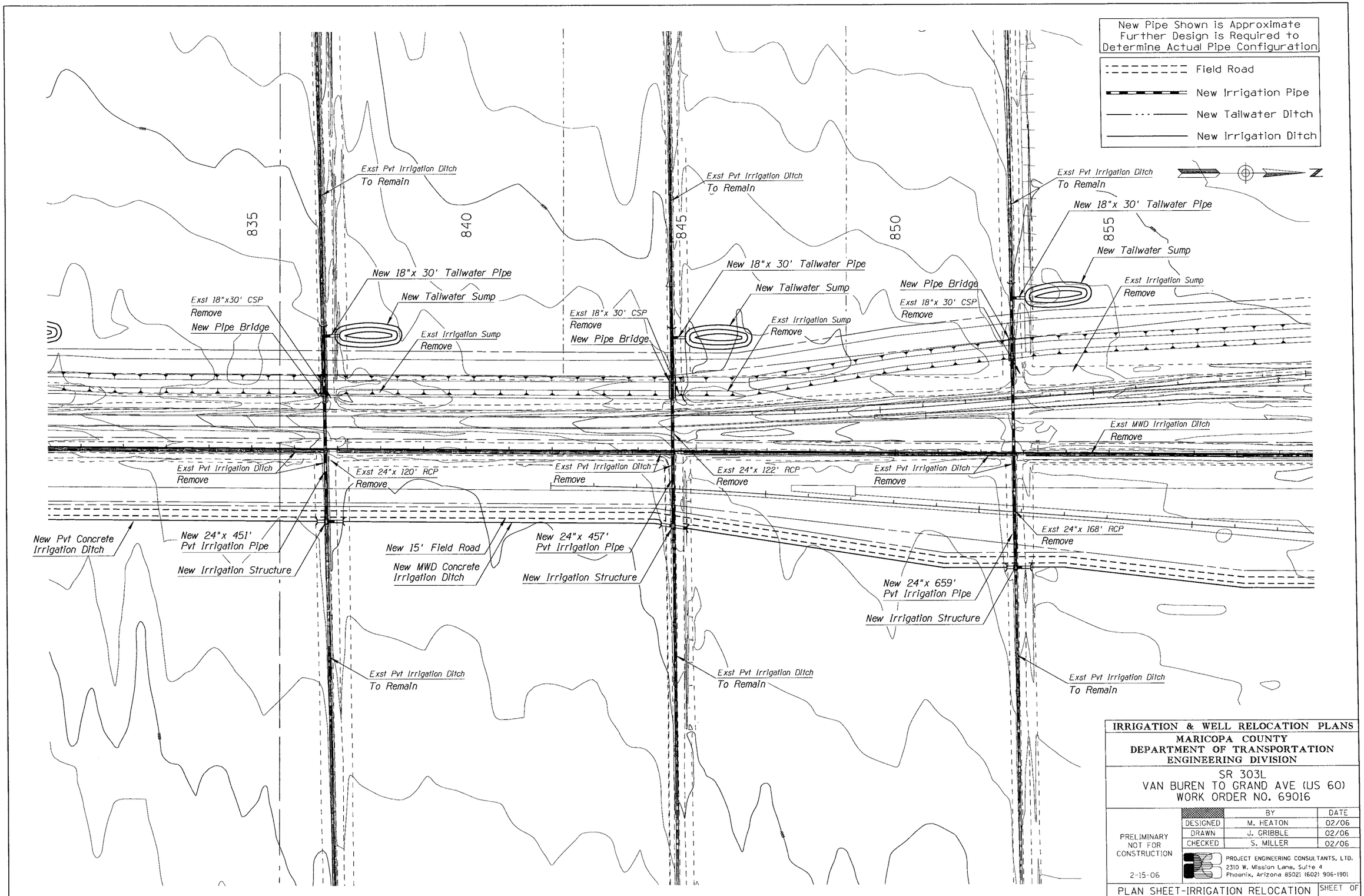
PLAN SHEET-IRRIGATION RELOCATION
Sta 815+00 to 835+00

SHEET OF
25 58



IRRIGATION & WELL RELOCATION PLANS

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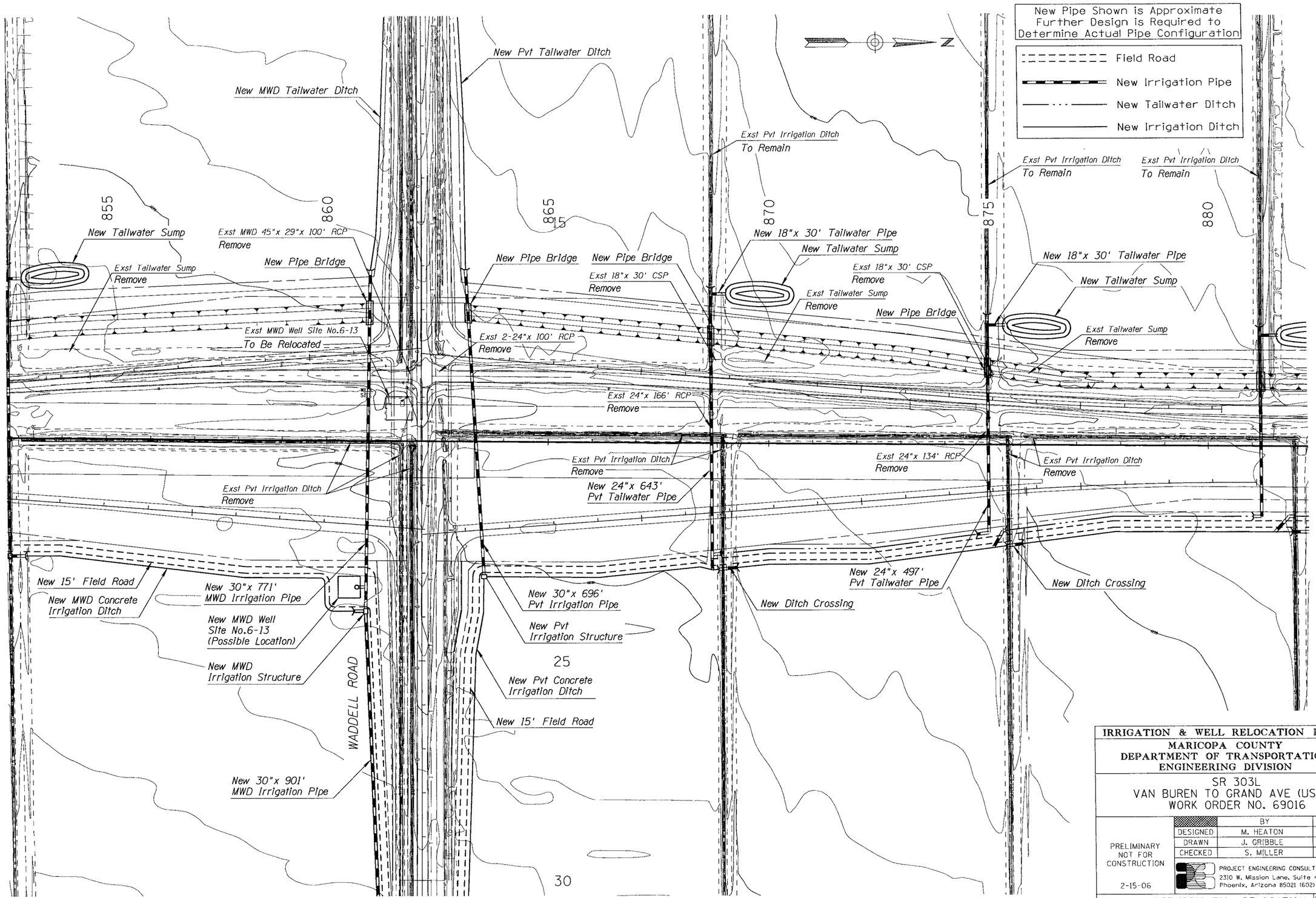
PLAN SHEET-IRRIGATION RELOCATION
Sta 835+00 to 855+00

SHEET 26 OF 58



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2310 W. Mission Lane, Suite 4
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PLAN SHEET-IRRIGATION RELOCATION
Sta 855+00 to 880+00

SHEET OF
27 58

New Pipe Shown is Approximate
Further Design is Required to
Determine Actual Pipe Configuration

Field Road
New Irrigation Pipe
New Tailwater Ditch
New Irrigation Ditch

880
885
890
895
900
905

Exst Pvt Irrigation Ditch
To Remain

New 18"x 30' Tailwater Pipe
New Tailwater Sump
Exst 18"x 30' CSP
Remove
New Pipe Bridge
Exst Pvt Tailwater Sump
Remove

Exst 24"x 134' RCP
Remove
Exst Pvt Irrigation Ditch
Remove
Exst 24"x 104' RCP
Remove
Exst Pvt Irrigation Ditch
Remove
Exst 24"x 105' RCP
Remove

New 24"x 431'
Pvt Tailwater Pipe
New 15' Field Road
New Ditch Crossing
New Pvt Tailwater Ditch
New Pvt Concrete
Irrigation Ditch
New Ditch
Crossing
New 24"x 431'
Pvt Tailwater Pipe
New Ditch
Crossing
New 24"x 449'
Pvt Tailwater Pipe
New Ditch Crossing

Exst Pvt Irrigation Ditch
To Remain

IRRIGATION & WELL RELOCATION PLANS

MARICOPA COUNTY
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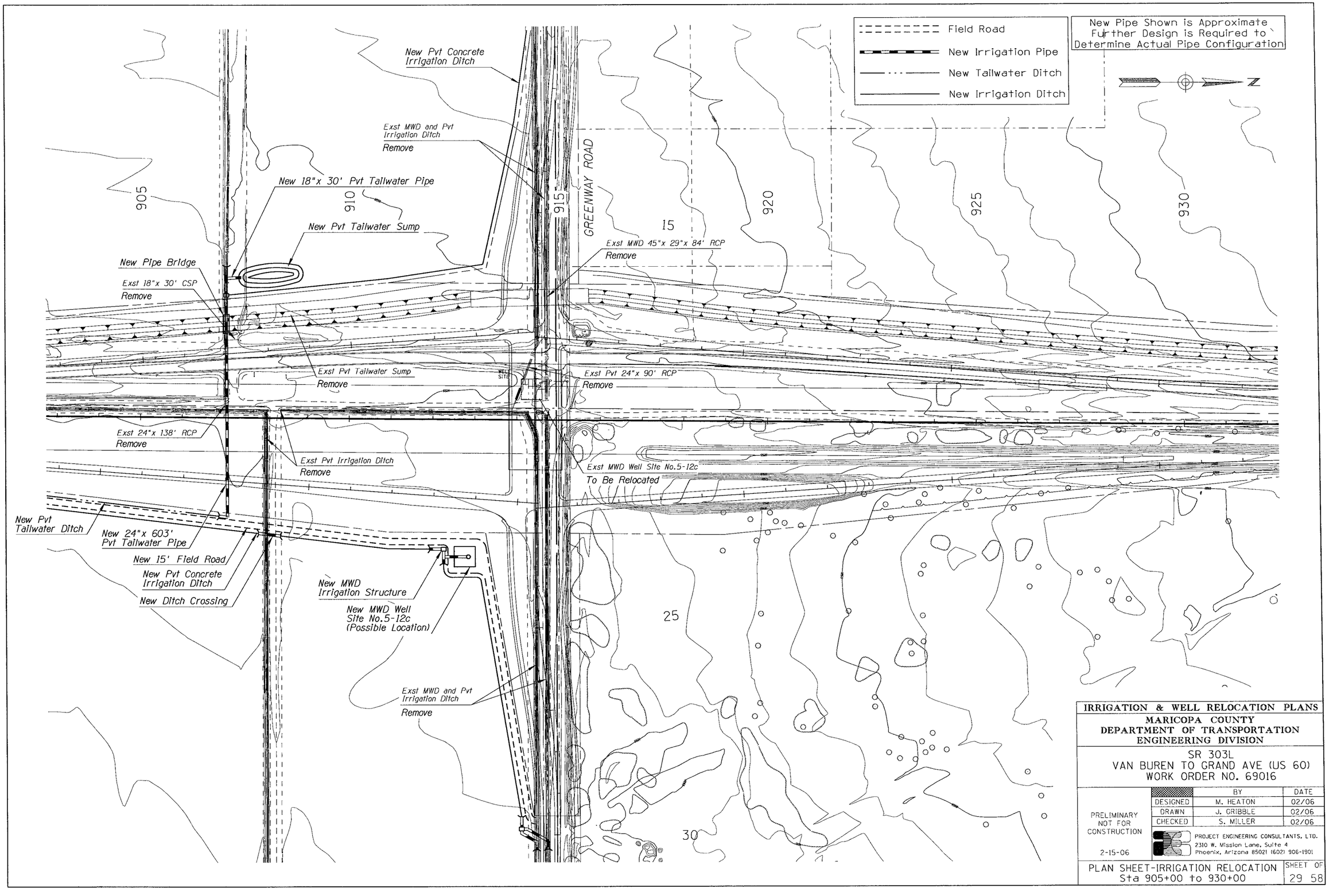
Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
Sta 880+00 to 905+00

SHEET 28 OF 58



IRRIGATION & WELL RELOCATION PLANS

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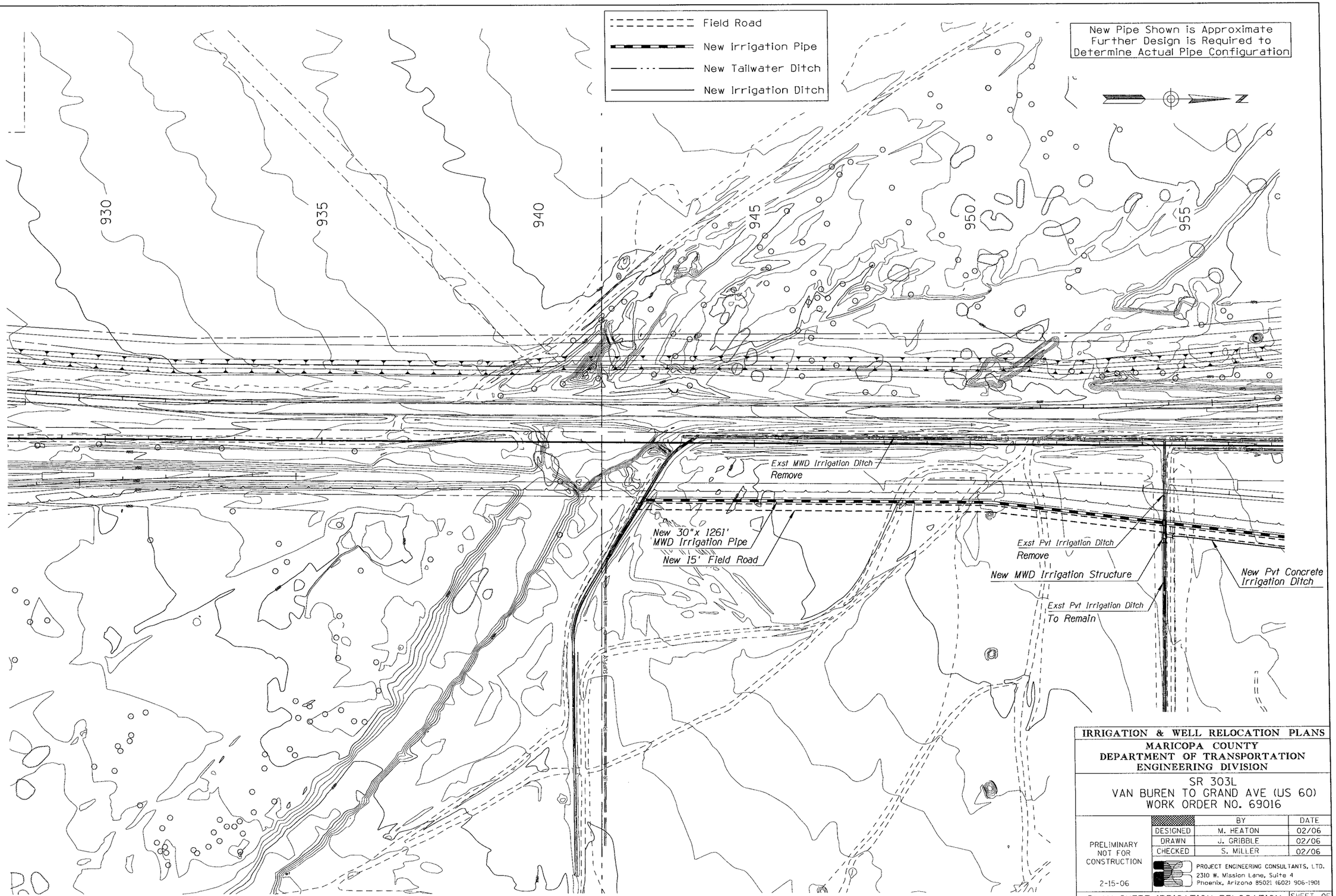
2310 W. Mission Lane, Suite 4
Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
Sta 905+00 to 930+00

SHEET OF
29 58



IRRIGATION & WELL RELOCATION PLANS

MARICOPA COUNTY
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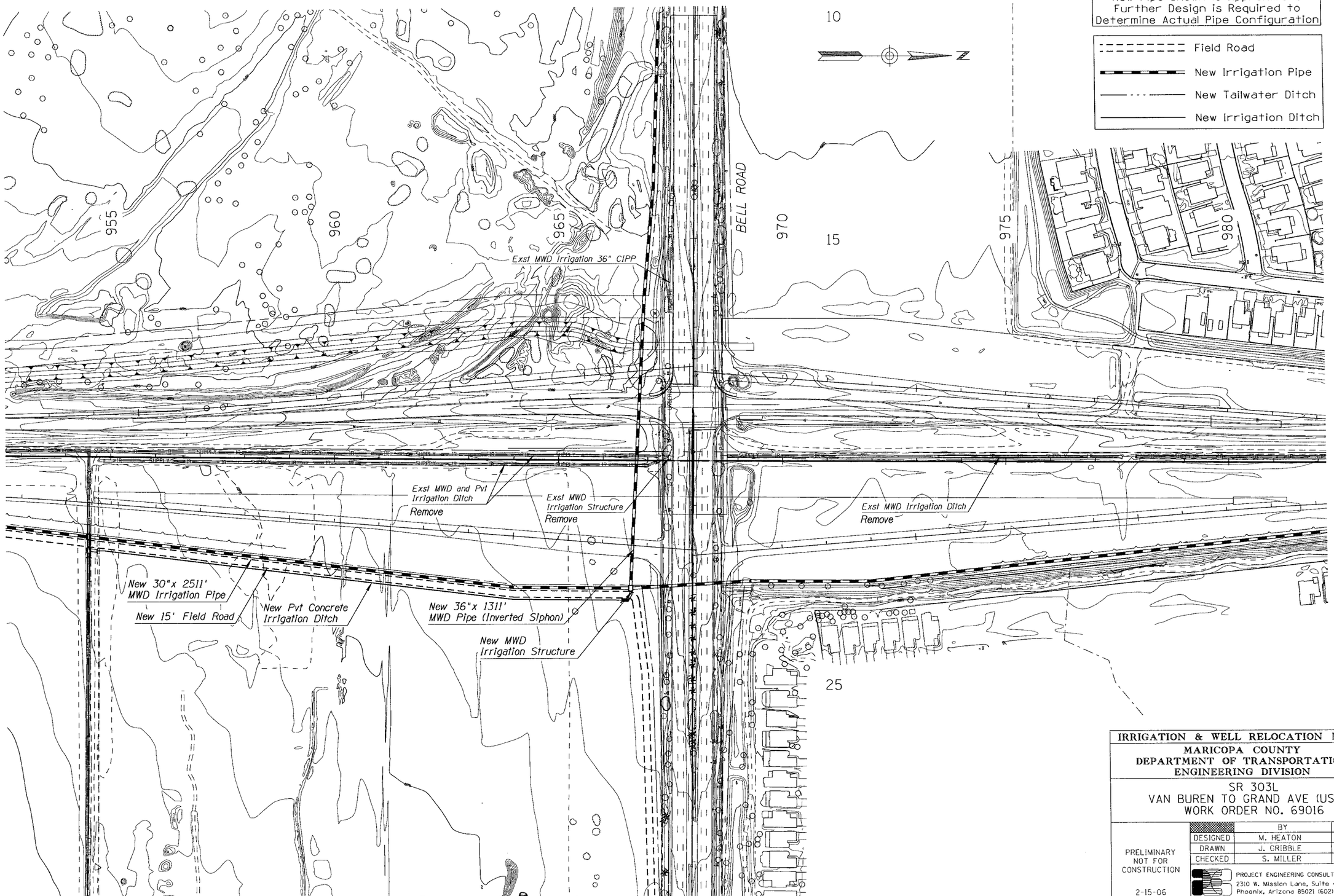
PLAN SHEET-IRRIGATION RELOCATION
Sta 930+00 to 955+00

SHEET 30 OF 58

New Pipe Shown is Approximate
Further Design is Required to
Determine Actual Pipe Configuration

Field Road
New Irrigation Pipe
New Tailwater Ditch
New Irrigation Ditch



IRRIGATION & WELL RELOCATION PLANS

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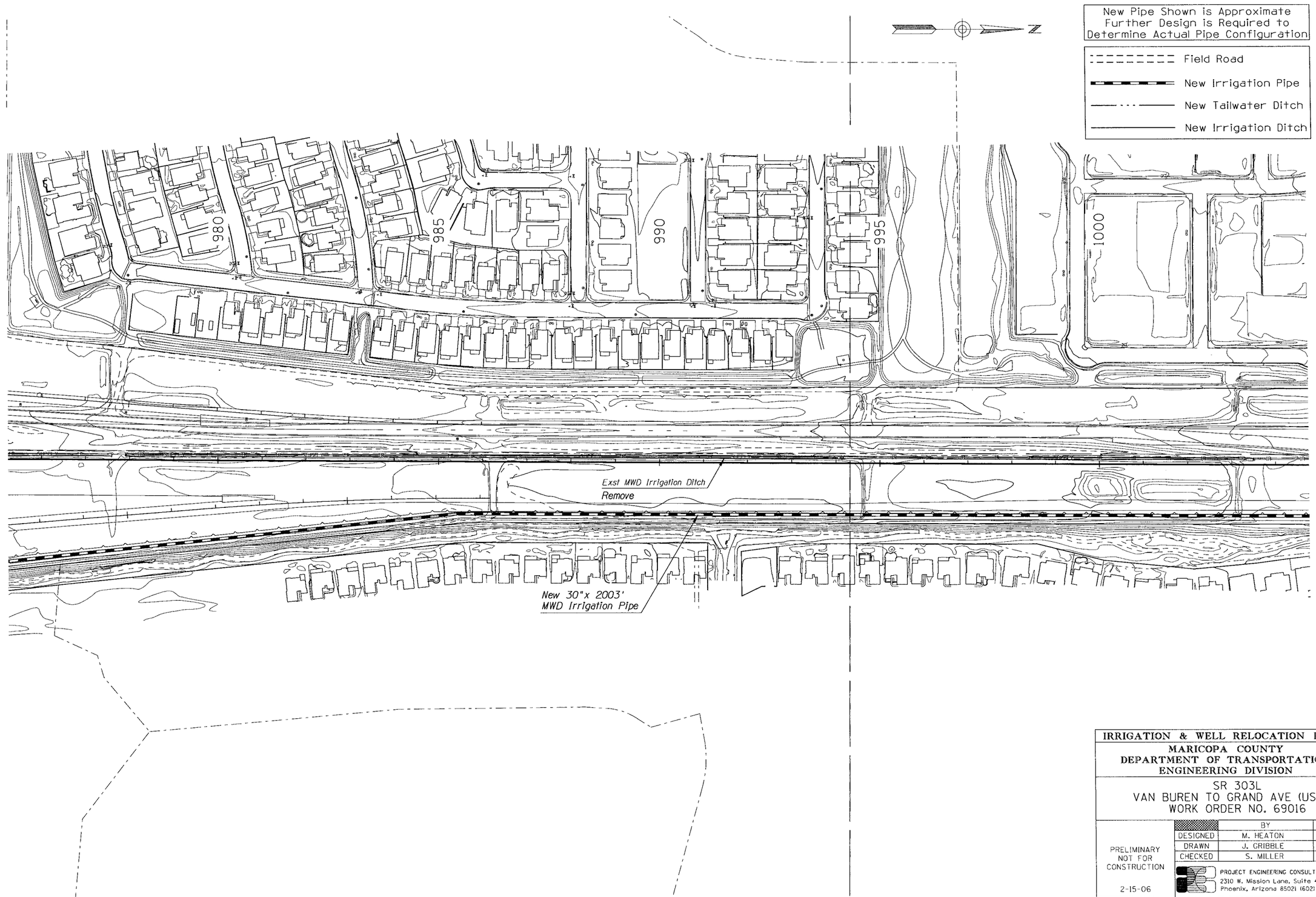
PLAN SHEET-IRRIGATION RELOCATION
Sta 955+00 to 980+00

SHEET 31 OF 58



IRRIGATION & WELL RELOCATION PLANS

MARICOPA COUNTY
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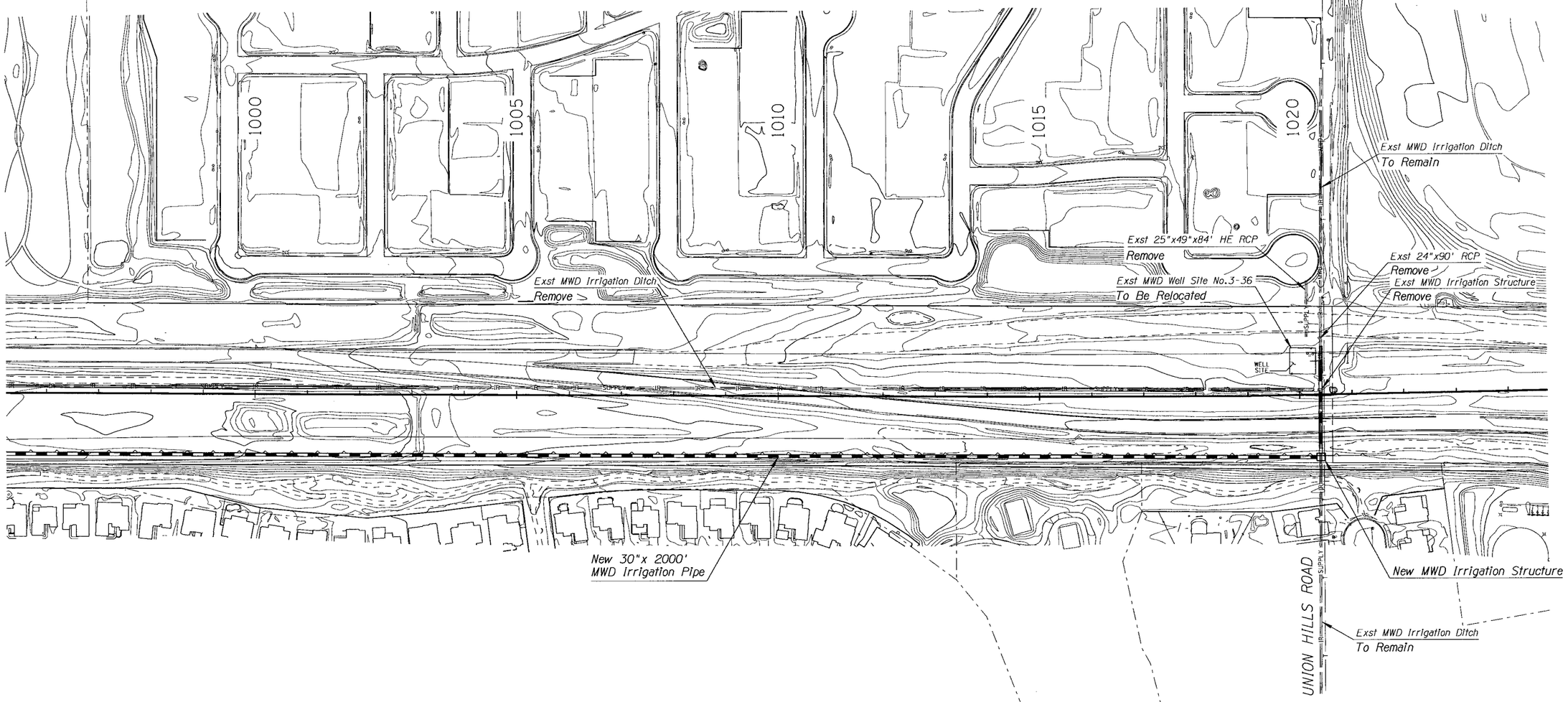
Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
Sta 980+00 to 1000+00

SHEET 32 OF 58

New Pipe Shown is Approximate
Further Design is Required to
Determine Actual Pipe Configuration

- Field Road
- New Irrigation Pipe
- New Tailwater Ditch
- New Irrigation Ditch



IRRIGATION & WELL RELOCATION PLANS

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2310 W. Mission Lane, Suite 4
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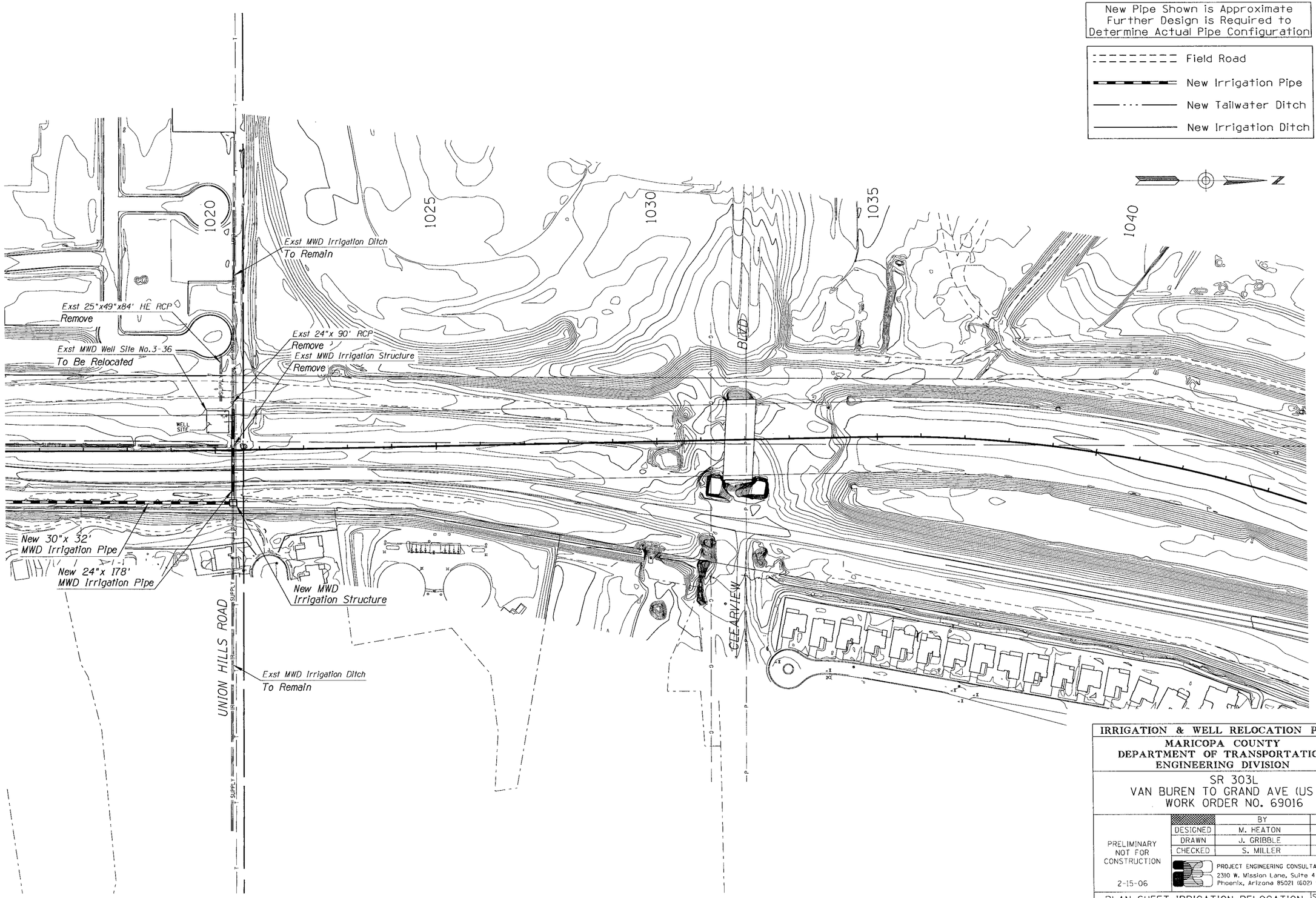
PLAN SHEET-IRRIGATION RELOCATION
Sta 1000+00 to 1020+00

SHEET OF
33 58

New Pipe Shown is Approximate
Further Design is Required to
Determine Actual Pipe Configuration

- Field Road
- New Irrigation Pipe
- New Tailwater Ditch
- New Irrigation Ditch



IRRIGATION & WELL RELOCATION PLANS

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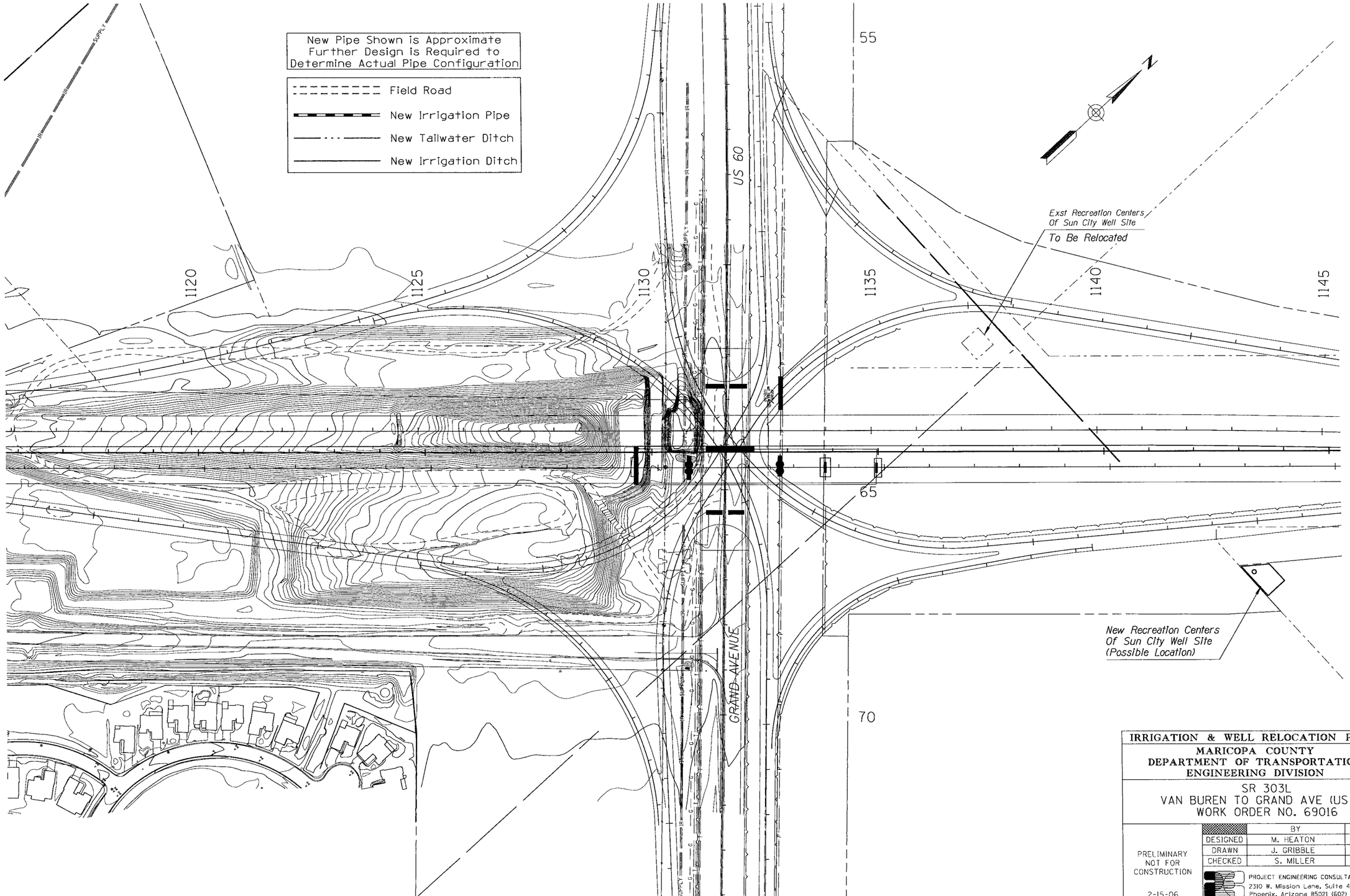
PLAN SHEET-IRRIGATION RELOCATION
Sta 1020+00 to 1040+00

SHEET OF
34 58



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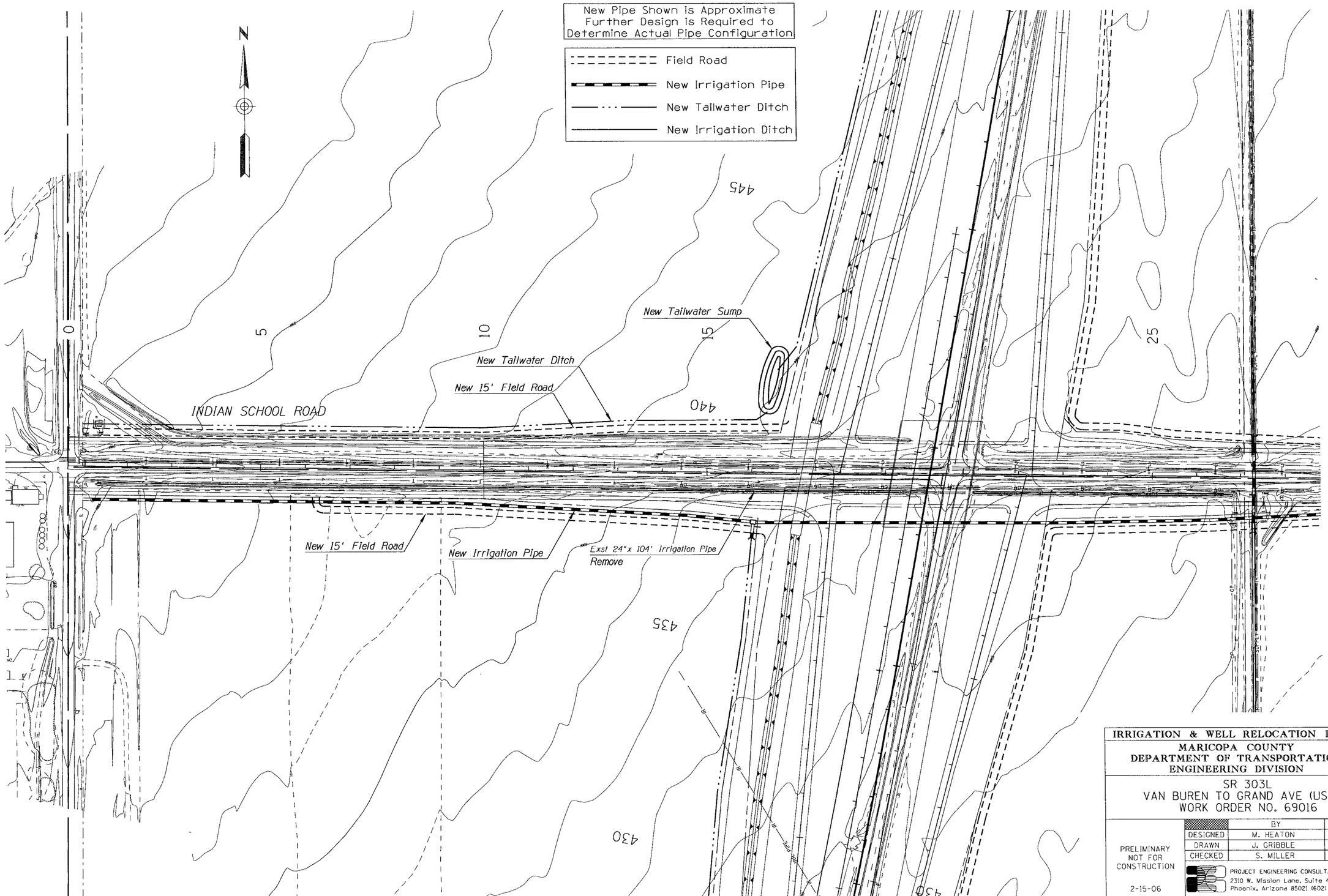
PLAN SHEET-IRRIGATION RELOCATION
Sta 1116+00 to 1145+00

SHEET OF
35 58



IRRIGATION & WELL RELOCATION PLANS

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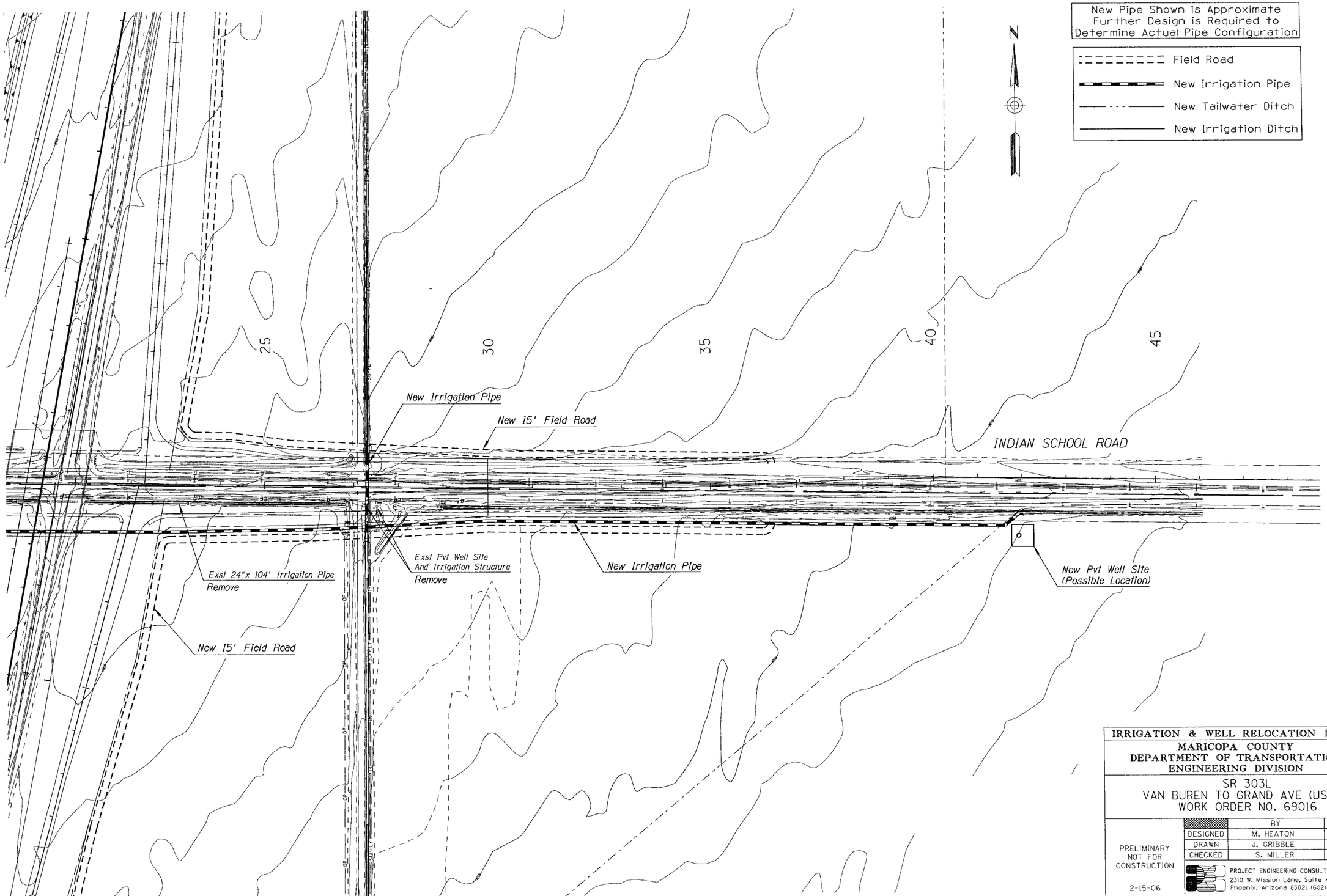
Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
INDIAN SCHOOL RD 6+00 to 25+00

SHEET OF
36 58



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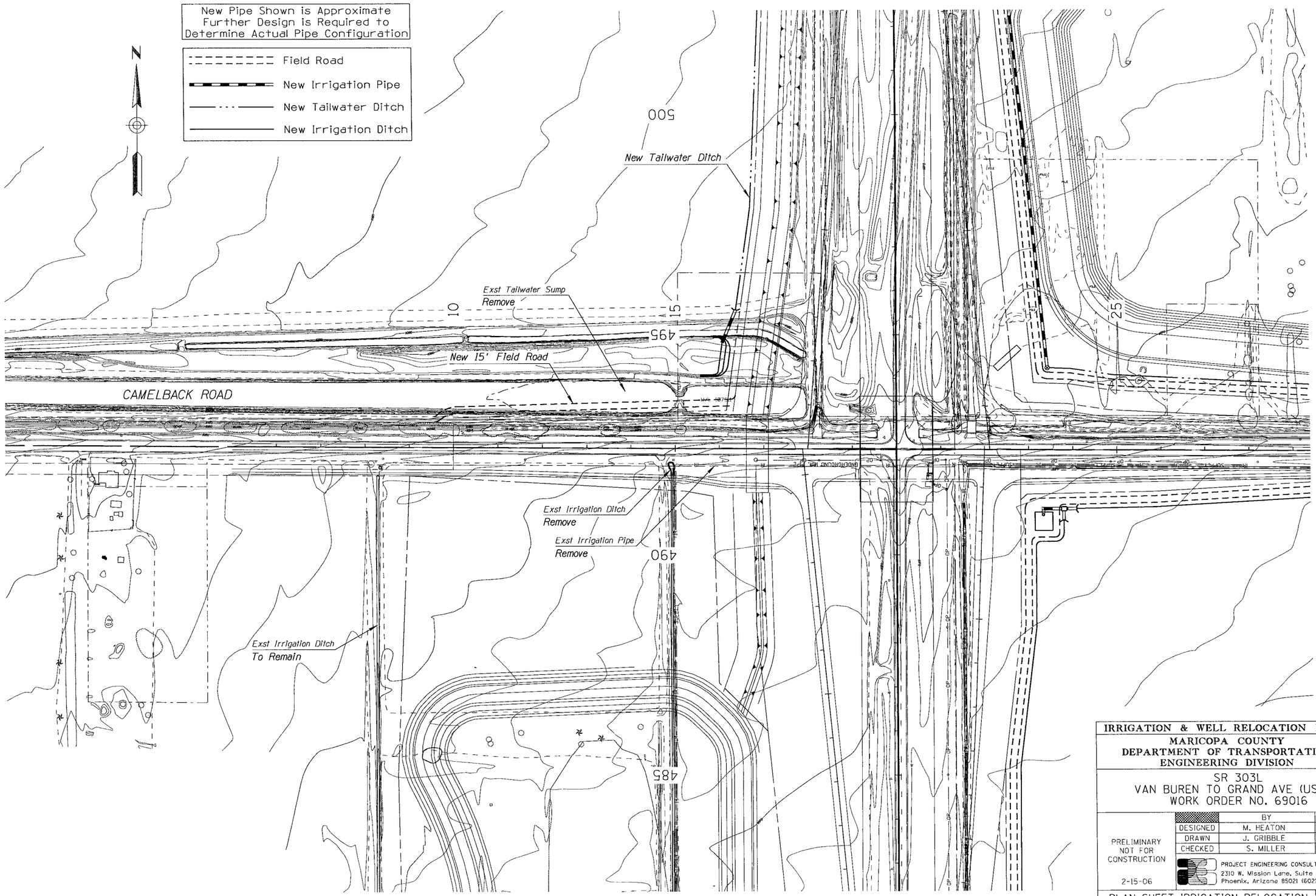
PLAN SHEET-IRRIGATION RELOCATION
INDIAN SCHOOL RD 25+00 to 36+15

SHEET 37 OF 58



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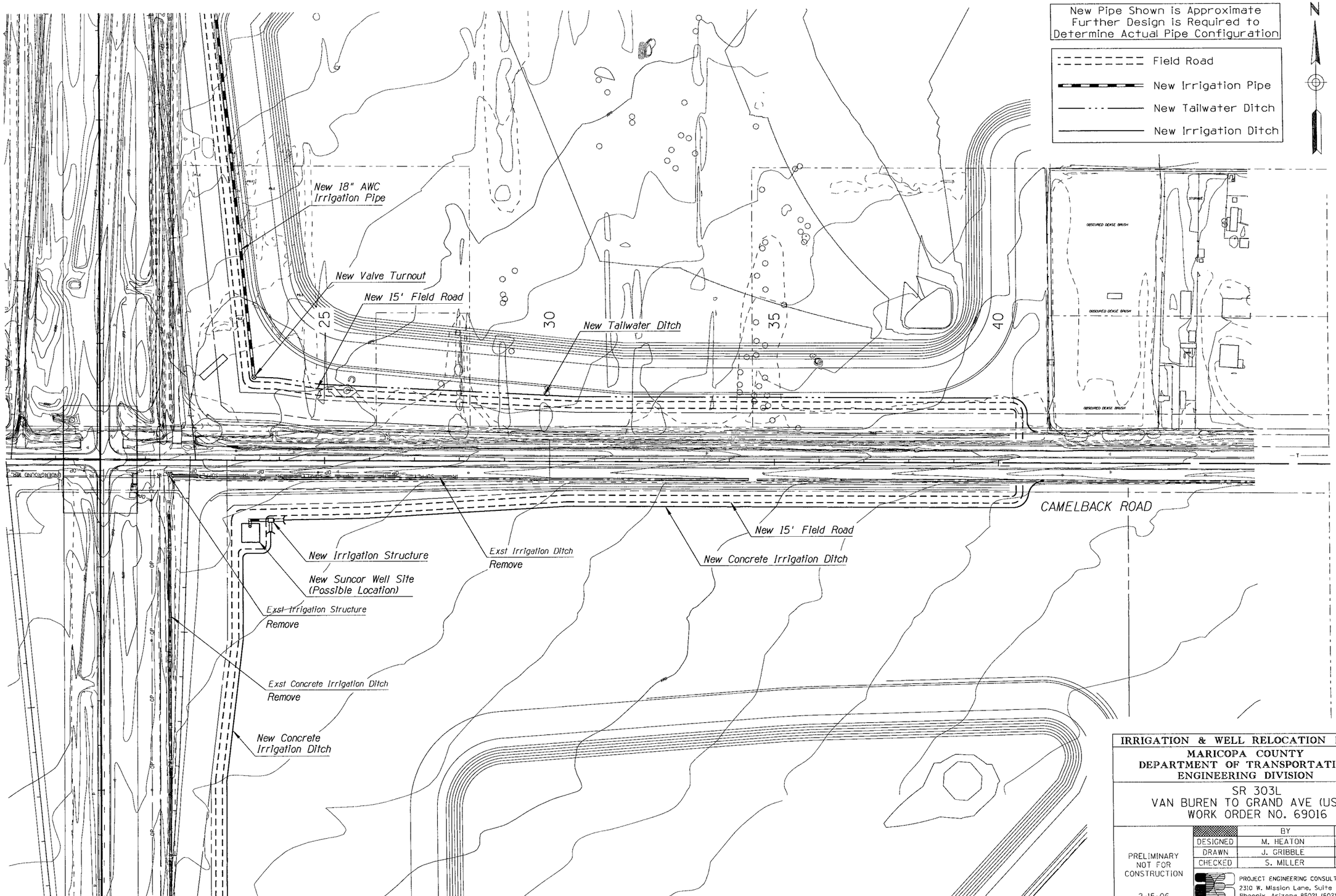
PLAN SHEET-IRRIGATION RELOCATION
CAMELBACK RD 7+85 to 25+00

SHEET 38 OF 58



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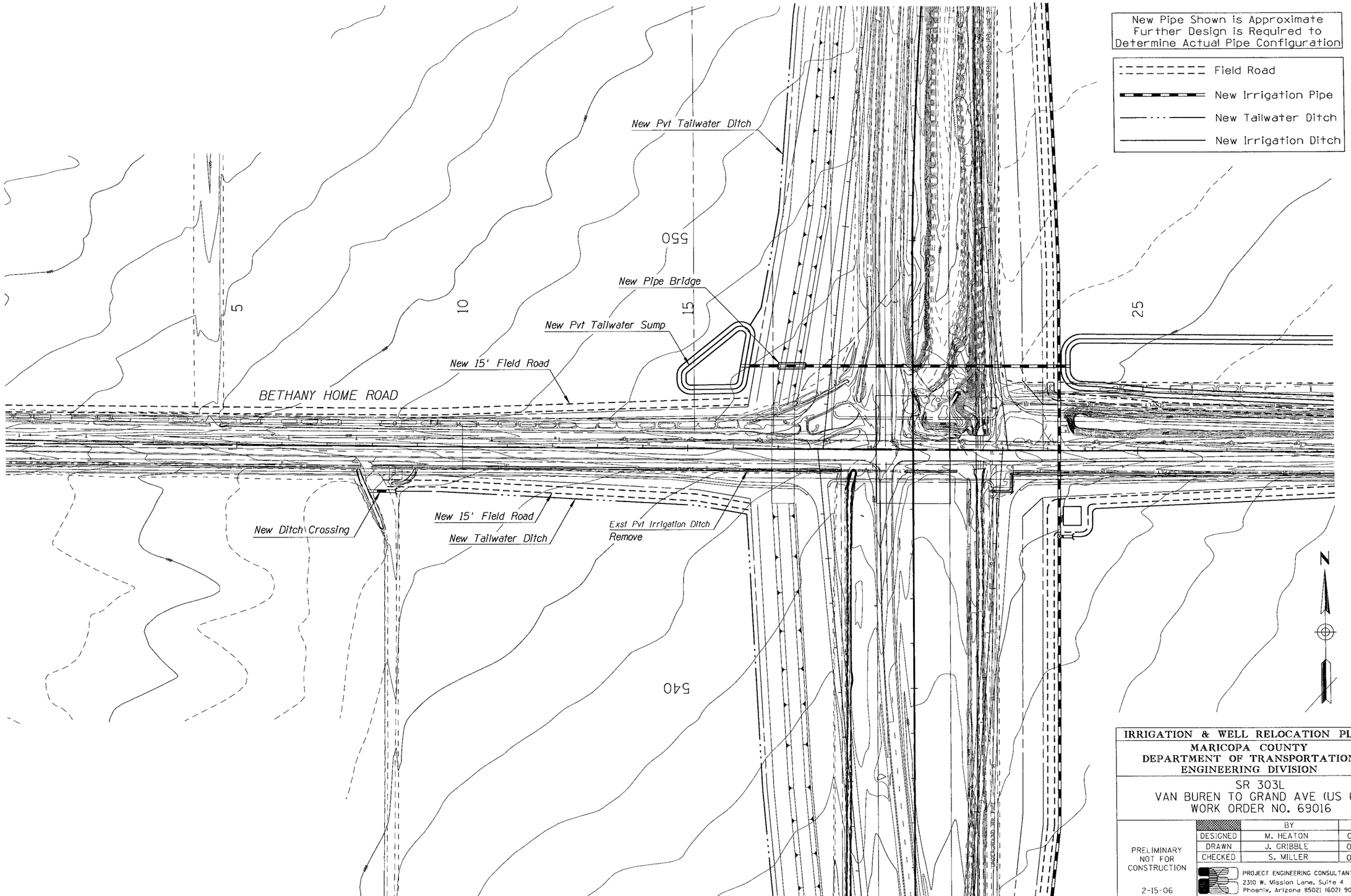
PLAN SHEET-IRRIGATION RELOCATION
CAMELBACK RD 25+00 to 35+35

SHEET 39 OF 58



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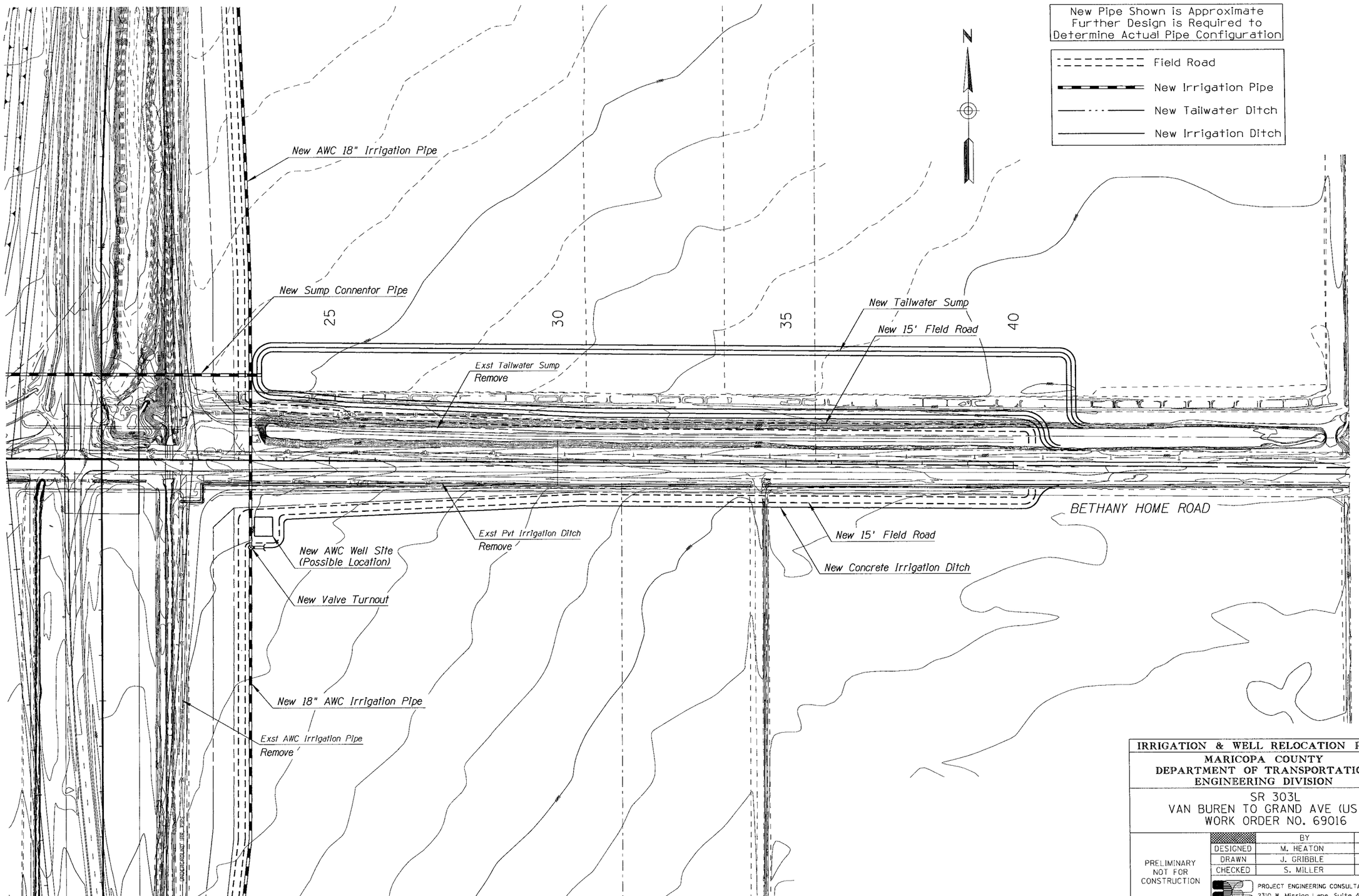
Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
BETHANY HOME RD 7+30 to 25+00

SHEET OF
40 58



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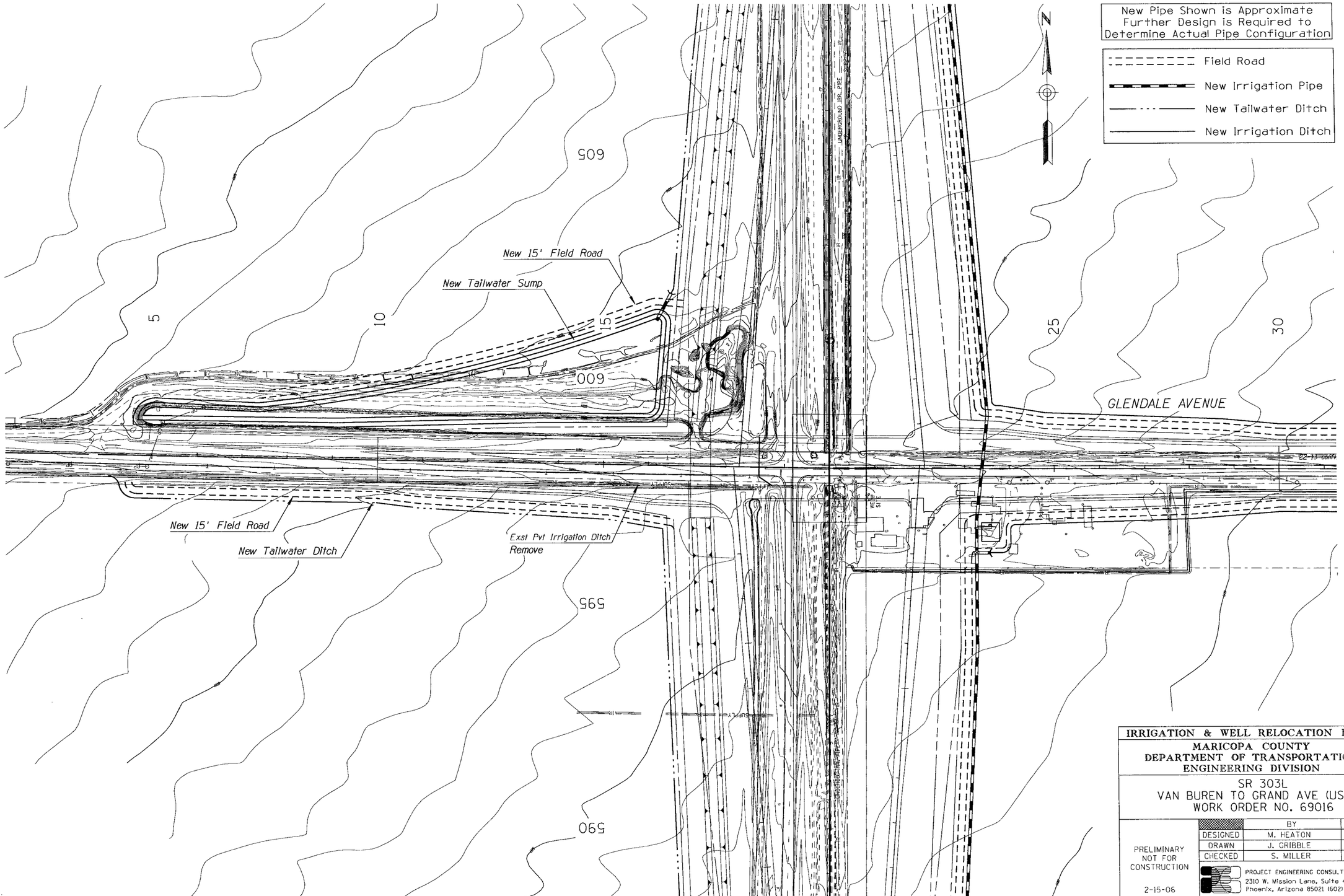
Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
BETHANY HOME RD 25+00 to 36+70

SHEET 41 OF 58



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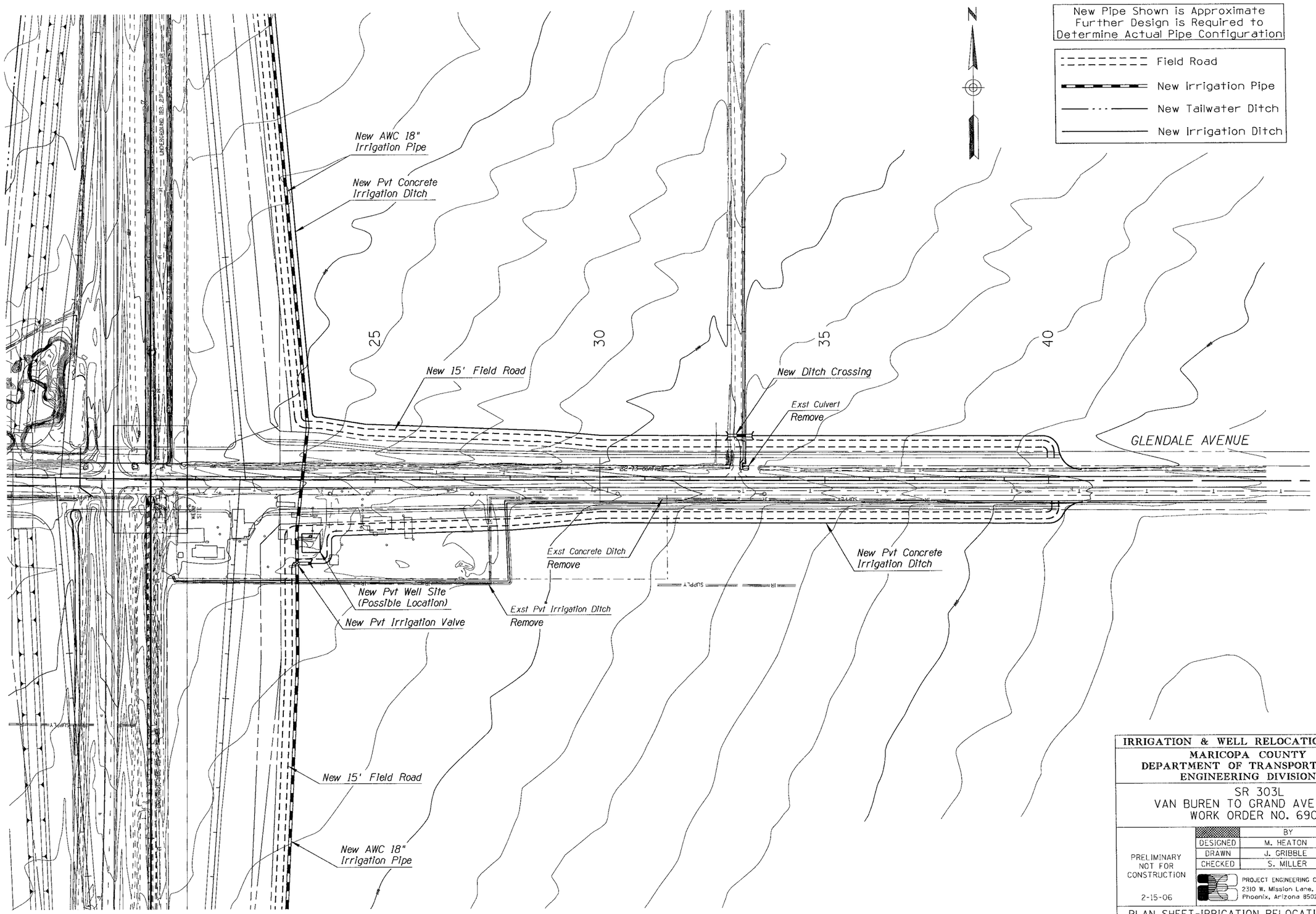
2-15-06

PROJECT ENGINEERING CONSULTANTS, LTD.
2310 W. Mission Lane, Suite 4
Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
GLENDALE AVE 7+20 to 25+00

SHEET 42 OF 58



IRRIGATION & WELL RELOCATION PLANS

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

SR 303L
VAN BUREN TO GRAND AVE (US 60)
WORK ORDER NO. 69016

	BY	DATE
DESIGNED	M. HEATON	02/06
DRAWN	J. GRIBBLE	02/06
CHECKED	S. MILLER	02/06

PRELIMINARY
NOT FOR
CONSTRUCTION

2-15-06

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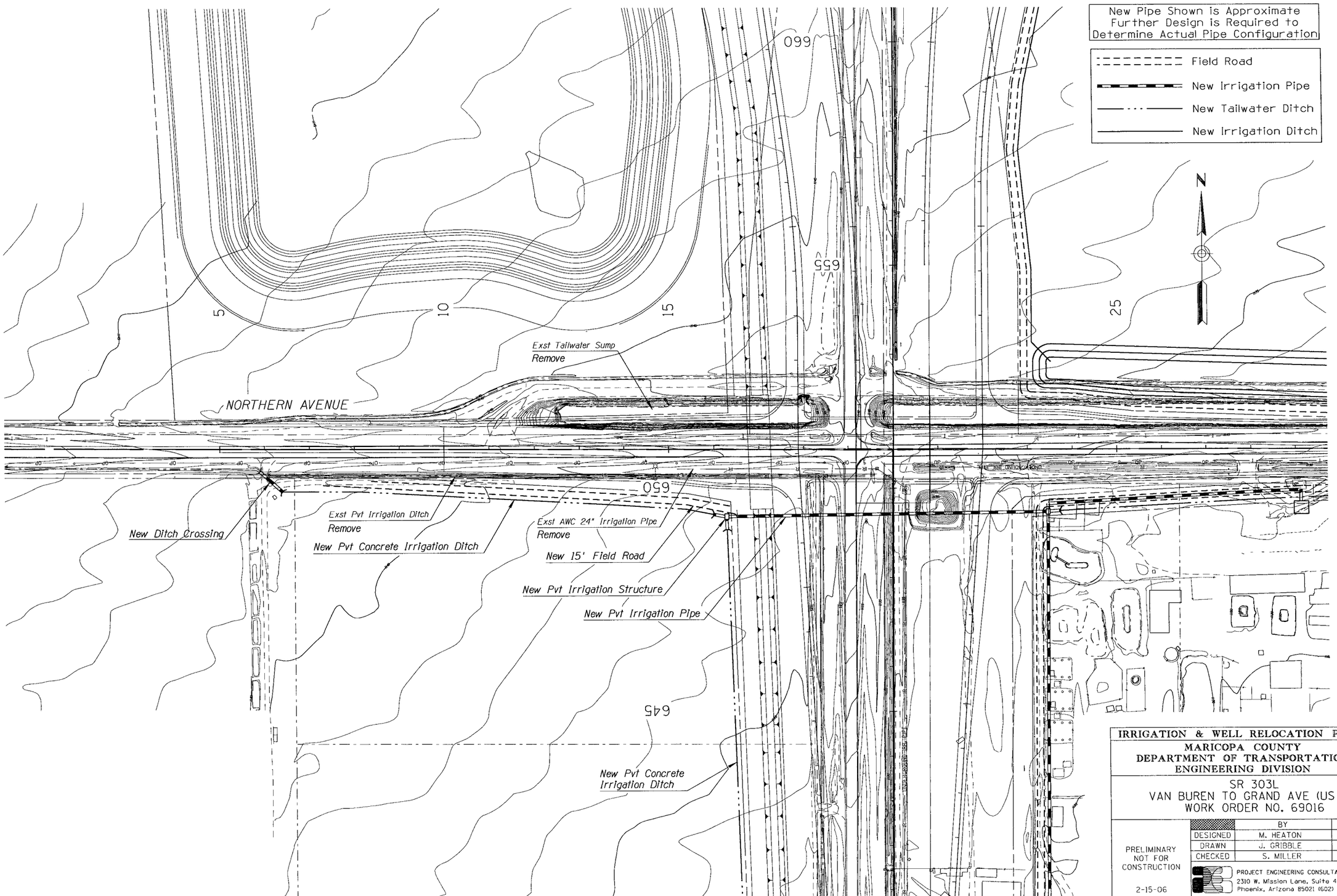
2310 W. Mission Lane, Suite 4
Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
GLENDALE AVE 25+00 to 37+00

SHEET 43 OF 58



IRRIGATION & WELL RELOCATION PLANS

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

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PROJECT ENGINEERING CONSULTANTS, LTD.
2310 W. Mission Lane, Suite 4
Phoenix, Arizona 85021 (602) 906-1901

PLAN SHEET-IRRIGATION RELOCATION
NORTHERN AVE 10+19 to 25+00

SHEET OF
44 58