

Appendix A

**Geometric Plans Showing Temporary Construction Easements
and Permanent Irrigation Easements**



GREGORY MENDOZA
GOVERNOR

STEPHEN R. LEWIS
LT. GOVERNOR

DAVID H. DEJONG, Ph. D
DIRECTOR

PIMA-MARICOPA IRRIGATION PROJECT

P.O. BOX C
192 SOUTH "A" Street
Sacaton, AZ 85147
Phone: (520) 562-6700
Fax: (520) 562-6791

PREPARED BY:

PARSONS

222 South Mill Avenue, Ste. 220
Tempe, Arizona 85281
Phone: 602/852-9195
Fax: 602/952-9303

ISSUE CERTIFICATION

60% SUBMITTAL
DECEMBER 18, 2014

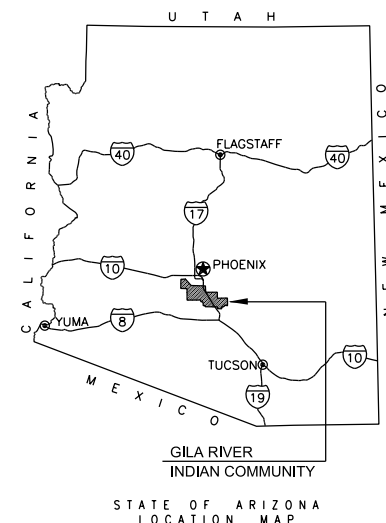
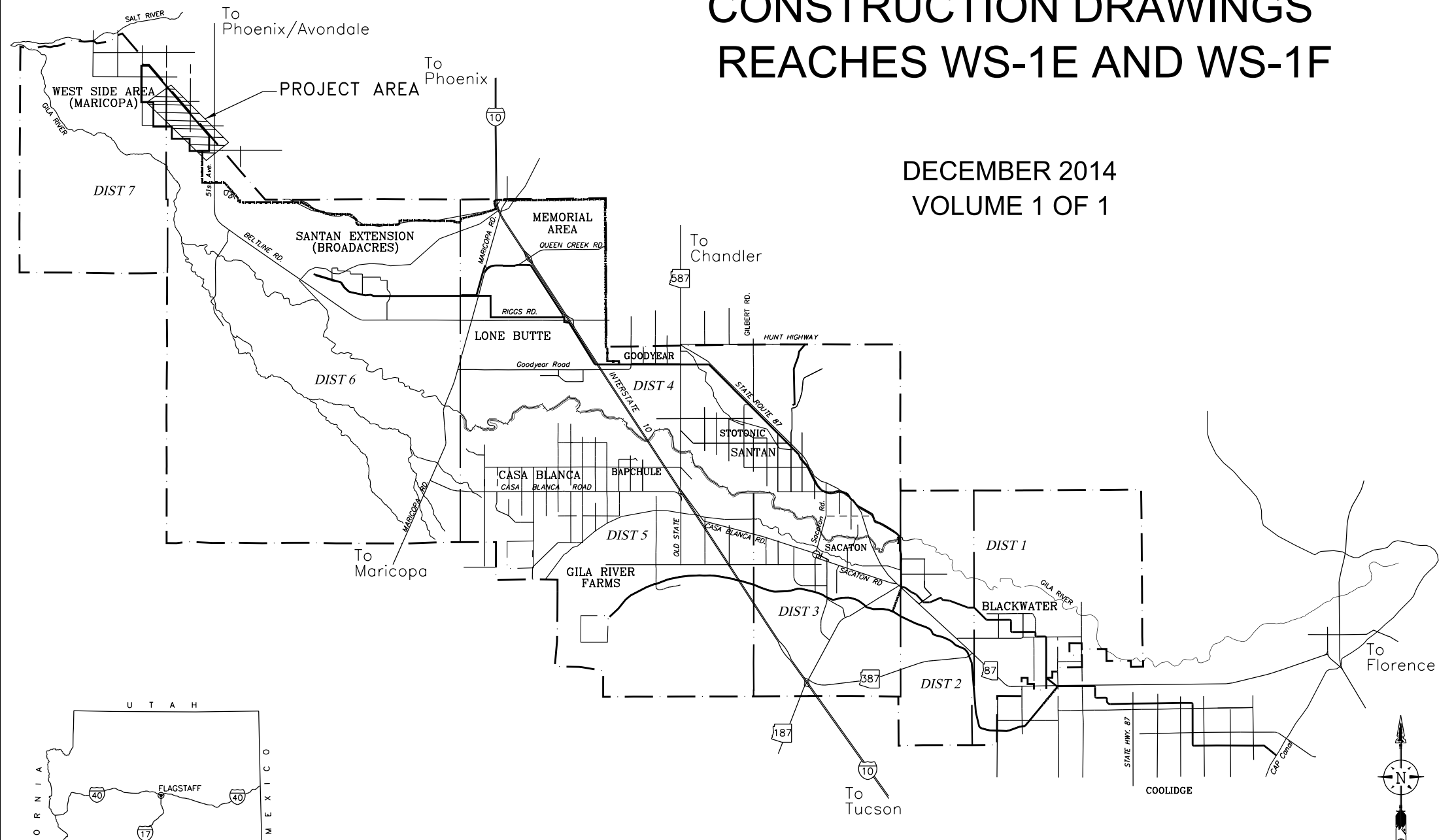
FOR INFORMATION CONTACT:
CHIEF CONSTRUCTION ENGINEER
(520) 562-6770

GILA RIVER INDIAN COMMUNITY

PIMA - MARICOPA IRRIGATION PROJECT

CONSTRUCTION DRAWINGS REACHES WS-1E AND WS-1F

DECEMBER 2014
VOLUME 1 OF 1



CONTRACTOR MUST FIELD
VERIFY PRIOR TO
CONSTRUCTION

LEGEND

-  INTERSTATE HIGHWAY MARKER
-  U.S. HIGHWAY MARKER
-  STATE ROUTE NUMBER

INDEX OF DRAWINGS

GENERAL

G-0.0	COVER SHEET
G-1.0	INDEX OF DRAWINGS, PLAN LAYOUT, AND LOCATION MAP
G-2.0	GEOMETRIC LAYOUT SHEET INDEX
G-2.1	GEOMETRIC LAYOUT WS-1E STA.1000+85.13 TO STA.1051+50 AND MC-1 STA.301+76.94 TO STA.END AND WS-1F STA.100+98.08 TO STA.103+85.25
G-2.2	GEOMETRIC LAYOUT WS-1E STA.1051+50 TO STA.1102+53
G-2.3	GEOMETRIC LAYOUT WS-1E STA.1102+53 TO STA.1155+70 AND MC-3 STA.600+00 TO STA.631+80
G-2.4	GEOMETRIC LAYOUT WS-1E STA.1155+70 TO STA.1211+23 AND MC-3-1N STA.712+75 TO STA.730+60.80 AND MC-3-2N STA.900+00 TO STA.901+80
G-2.5	GEOMETRIC LAYOUT WS-1E STA.1211+23 TO END
G-2.6	GEOMETRIC LAYOUT WS-1F STA.103+85 TO STA.176+50.25
G-2.7	GEOMETRIC LAYOUT WS-1F STA.176+50 TO STA.225+00
G-2.8	GEOMETRIC LAYOUT MC-2 STA.225+00 TO STA.245+31.00 AND MC-2-2N STA.800+00 TO END AND MC-2-2N STA.500+00 TO STA.503+98.48 AND MC-2-1S STA.400+00 TO STA.410+00
G-2.9	GEOMETRIC LAYOUT MC-2-1N STA.503+98.48 TO END
G-2.10	GEOMETRIC LAYOUT MC-2-1S STA.410+00 TO END
G-2.11	GEOMETRIC LAYOUT MC-3 STA.631+80 TO END AND MC-3-1N STA.700+00 TO STA.712+75 AND MC-3-2N STA.901+80 TO END AND MC-3-3N STA.0+00 TO END
G-3.0	MATERIAL QUANTITIES 1 OF 12
G-3.1	MATERIAL QUANTITIES 2 OF 12
G-3.2	MATERIAL QUANTITIES 3 OF 12
G-3.3	MATERIAL QUANTITIES 4 OF 12
G-3.4	MATERIAL QUANTITIES 5 OF 12
G-3.5	MATERIAL QUANTITIES 6 OF 12
G-3.6	MATERIAL QUANTITIES 7 OF 12
G-3.7	MATERIAL QUANTITIES 8 OF 12
G-3.8	MATERIAL QUANTITIES 9 OF 12
G-3.9	MATERIAL QUANTITIES 10 OF 12
G-3.10	MATERIAL QUANTITIES 11 OF 12
G-3.11	MATERIAL QUANTITIES 12 OF 12
G-4.0	BID TAB SHEET
G-5.0	LEGEND, GENERAL NOTES, AND ABBREVIATIONS
G-6.0	PIPE ALTERNATIVES SCHEDULE
G-7.0	TEMPORARY IRRIGATION WATER SUPPLY

PLAN AND PROFILE

P-1.0	PLAN SHEET CUT INDEX
P-1.1	PLAN AND PROFILE WS-1E STA.1000+00 TO STA.1024+50
P-1.2	PLAN AND PROFILE WS-1E STA.1024+50 TO STA.1050+00
P-1.3	PLAN AND PROFILE WS-1E STA.1050+00 TO STA.1073+50
P-1.4	PLAN AND PROFILE WS-1E STA.1073+50 TO STA.1098+50
P-1.5	PLAN AND PROFILE WS-1E STA.1098+50 TO STA.1120+50
P-1.6	PLAN AND PROFILE WS-1E STA.1120+50 TO STA.1139+50
P-1.7	PLAN AND PROFILE WS-1E STA.1139+50 TO STA.1163+50
P-1.8	PLAN AND PROFILE WS-1E STA.1163+50 TO STA.1187+50
P-1.9	PLAN AND PROFILE WS-1E STA.1187+50 TO STA.1207+50
P-1.10	PLAN AND PROFILE WS-1E STA.1207+50 TO STA.1231+00
P-1.11	PLAN AND PROFILE WS-1E STA.1231+00 TO STA.1254+50
P-1.12	PLAN AND PROFILE WS-1E STA.1254+50 TO STA.1256+69
P-2.1	PLAN AND PROFILE WS-1F STA.100+00 TO STA.123+50
P-2.2	PLAN AND PROFILE WS-1F STA.123+50 TO STA.147+50
P-2.3	PLAN AND PROFILE WS-1F STA.147+50 TO STA.172+50
P-2.4	PLAN AND PROFILE WS-1F STA.172+50 TO STA.178+86.70 AND MC-2 STA.178+86.70 TO STA.195+50
P-2.5	PLAN AND PROFILE MC-2 STA.195+50 TO STA.220+50
P-2.6	PLAN AND PROFILE MC-2 STA.220+50 TO STA.246+00
P-3.1	PLAN AND PROFILE MC-1 STA.300+00 TO STA.323+50
P-3.2	PLAN AND PROFILE MC-1 STA.323+50 TO STA.346+32
P-4.1	PLAN AND PROFILE MC-2-1S STA.400+00 TO STA.421+50
P-4.2	PLAN AND PROFILE MC-2-1S STA.421+50 TO STA.443+50
P-4.3	PLAN AND PROFILE MC-2-1S STA.443+50 TO STA.455+50
P-5.1	PLAN AND PROFILE MC-2-1N STA.500+00 TO STA.522+50
P-5.2	PLAN AND PROFILE MC-2-1N STA.522+50 TO STA.544+50
P-5.3	PLAN AND PROFILE MC-2-1N STA.544+50 TO STA.553+22
P-6.1	PLAN AND PROFILE MC-3 STA.600+00 TO STA.623+50
P-6.2	PLAN AND PROFILE MC-3 STA.623+50 TO STA.647+50
P-6.3	PLAN AND PROFILE MC-3 STA.647+50 TO STA.668+50
P-6.4	PLAN AND PROFILE MC-3 STA.668+50 TO STA.690+50
P-7.1	PLAN AND PROFILE MC-3-1N STA.700+00 TO STA.720+50
P-7.2	PLAN AND PROFILE MC-3-1N STA.720+50 TO STA.730+00
P-8.1	PLAN AND PROFILE MC-2-2N STA.800+00 TO STA.821+50
P-8.2	PLAN AND PROFILE MC-2-2N STA.821+50 TO STA.840+50
P-9.1	PLAN AND PROFILE MC-3-2N STA.900+00 TO STA.913+22
P-10.1	PLAN AND PROFILE MC-3N STA.0+00 TO STA.16+00

CIVIL

C-1.0	TYPICAL SECTIONS
C-2.0	O&M ROAD DRIVEWAYS AND PAVING DETAILS
C-3.0	LEVEL TOP CANAL 1 OF 2 PIPE CONNECTION
C-3.1	LEVEL TOP CANAL 1 OF 3 SPILLWAY
C-3.2	LEVEL TOP CANAL 2 OF 3 SPILLWAY
C-3.3	LEVEL TOP CANAL 3 OF 3 SPILLWAY
C-4.0	TURNOUT TABLE
C-5.0	EXISTING WELL CONNECTION 1 OF 2
C-5.1	EXISTING WELL CONNECTION 2 OF 2
C-6.0	EPNG/KINDER MORGAN GAS LINE CROSSING DETAIL
C-7.0	TURNOUT OUTLET PROFILES

DRAINAGE

DRN 1.01	PLAN AND PROFILE SRP IRRIGATION DITCH STA 00+00 TO STA 36+22
DRN 1.02	PLAN AND PROFILE SRP IRRIGATION DITCH DETAIL
DRN 2.01	IRRIGATION OUTLET DITCH - MC-2-1S
DRN 2.03	IRRIGATION OUTLET DRAIN
DRN 3.01	RIPRAP DETAIL
DRN 4.01	PLAN AND PROFILE BASIN MC-3-1N
DRN 4.02	PLAN AND PROFILE BASIN MC-2-2N
DRN 4.03	PLAN AND PROFILE BASIN MC-2-1N NORTH
DRN 4.04	PLAN AND PROFILE BASIN MC-2-1N SOUTH

STRUCTURAL

S-1.0	GENERAL & MISCELLANEOUS STRUCTURAL DETAILS
S-2.0	TURNOUT OUTLET DETAILS
S-2.1	OUTLET HEADWALL DETAILS
S-2.2	FLOW METER IN MANHOLE SHEET 1 OF 2
S-2.3	FLOW METER IN MANHOLE TABLE SHEET 2 OF 2
S-3.0	VAULT PLAN TYPES A, B, D, E
S-3.1	VAULT PLAN TYPES C, F, H
S-3.2	VAULT SECTIONS
S-3.3	VAULT SECTIONS
S-3.4	VAULT COVER PLAN, SECTIONS, AND DETAILS
S-3.5	VAULT DETAILS - LADDER

MECHANICAL

M-1.0	BUTTERFLY VALVE
M-2.0	PLUG VALVE 18"
M-2.1	PLUG VALVE 24" and 30"
M-2.2	PLUG VALVE 36" and 42"
M-2.3	PLUG VALVE 48" and 54"
M-3.0	KNIFE GATE VALVE
M-4.0	AIR RELEASE VALVE
M-5.0	FLAP GATE DETAIL
M-6.0	CHAINLINK FENCE AND GUARD POST DETAIL
M-7.0	REACHES WS1E & WS1F PIE MARKER SHEET 1 OF 2
M-7.1	REACHES WS1E & WS1F PIE MARKER SHEET 2 OF 2
M-8.0	MILE POST MARKER
M-9.0	HANDRAIL DETAILS
M-10.0	PROJECT IDENTIFICATION AND MISCELLANEOUS SIGN DETAILS
M-11.0	CORROSION PROTECTION SHEET 1 OF X (TBD BY OTHERS)
M-11.1	CORROSION PROTECTION SHEET 2 OF X (TBD BY OTHERS)

TRAFFIC CONTROL

TC-1.1	TRAFFIC CONTROL SCHEMATIC
TC-1.2	TRAFFIC CONTROL QUANTITIES
TC-1.3	TRAFFIC CONTROL DETAILS
TC-1.4	TRAFFIC CONTROL
TC-1.5	TRAFFIC CONTROL
TC-1.6	TRAFFIC CONTROL

GEOTECHNICAL

SB-1.0	SOIL BORING AND LOG
SB-1.1	SOIL BORING AND LOG
SB-1.2	SOIL BORING AND LOG
SB-1.3	SOIL BORING AND LOG
SB-1.4	SOIL BORING AND LOG
SB-1.5	SOIL BORING AND LOG

ELECTRICAL

E-1.0	ELECTRICAL DETAILS (TBD BY OTHERS)
E-1.1	ELECTRICAL DETAILS (TBD BY OTHERS)
E-1.2	ELECTRICAL DETAILS (TBD BY OTHERS)

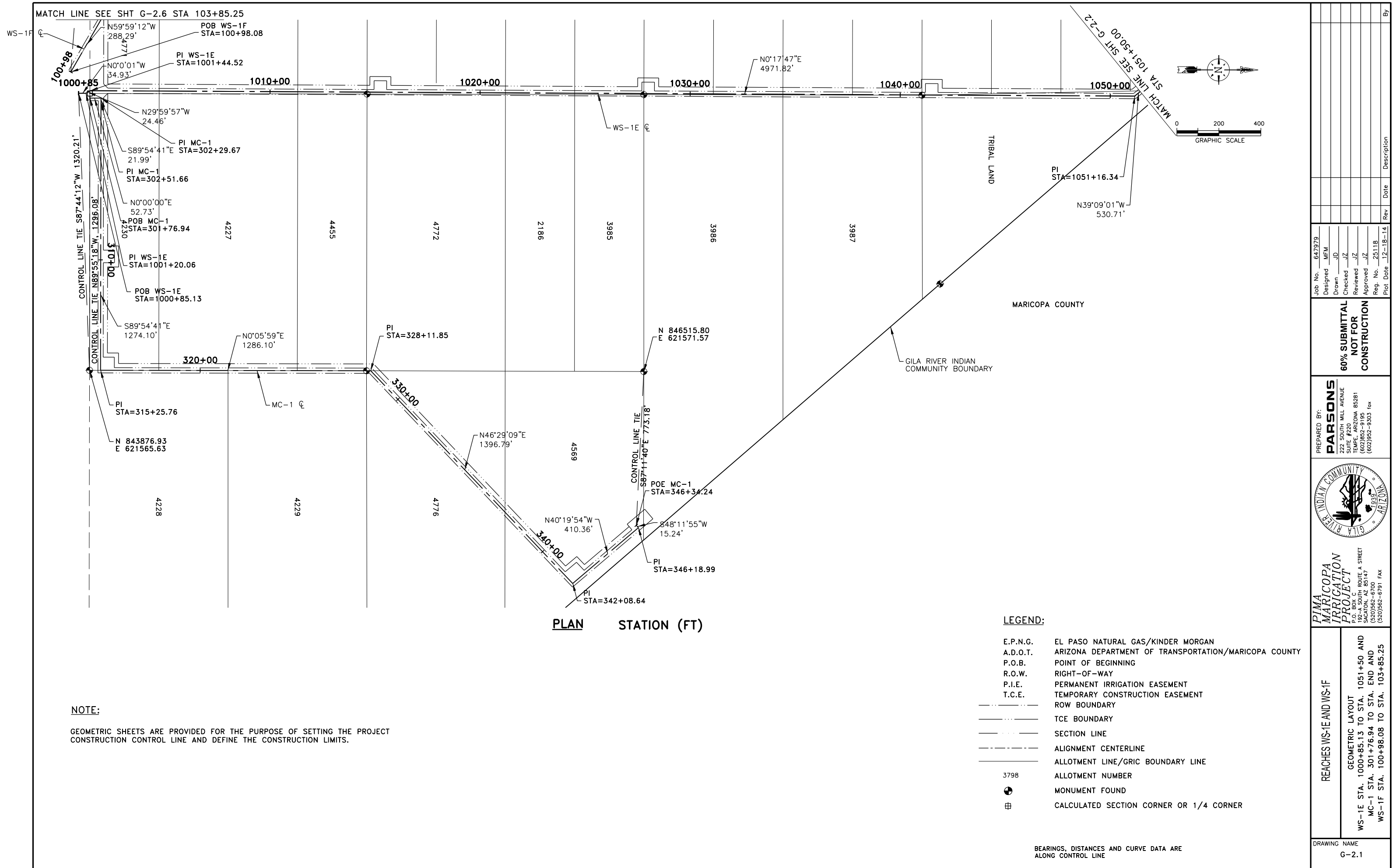
ADOT SHEETS

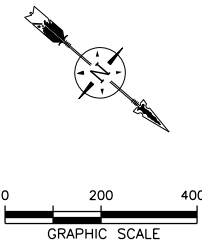
SD-6.30	PIPE CULVERT HEADWALLS MISCELLANEOUS DETAILS (1 OF 5)
SD-6.30	PIPE CULVERT HEADWALLS INLET AND OUTLET 18" TO 42" PIPES (2 OF 5)
SD-6.30	PIPE CULVERT HEADWALLS MISCELLANEOUS DETAILS (3 OF 5)
SD-6.30	PIPE CULVERT HEADWALLS MISCELLANEOUS DETAILS (4 OF 5)
SD-6.30	PIPE CULVERT HEADWALLS MISCELLANEOUS DETAILS (5 OF 5)

MAG SHEETS

MAG 201	PAVEMENT SECTION AT TERMINATION
MAG 390	CURB STOP WITH FLUSHING PIPE
MAG 501-1	HEADWALL
MAG 501-4	HEADWALL IRRIGATION 18" TO 60" PIPE

DRAWING NAME G-1.0	REACHES WS-1E AND WS-1F	PIMA MARICOPA IRRIGATION PROJECT P.O. BOX C 14001 S. ROUTE A STREET SACATON, AZ 85147 (520)562-6700 (520)562-6791 FAX  PREPARED BY: PARSONS 232 SOUTH MILL AVENUE SUITE #220 TEMPE, ARIZONA 85281 (602)852-9195 (602)952-9303 fax	60% SUBMITTAL NOT FOR CONSTRUCTION	Job No. 647979	Designed MFM				
	INDEX OF DRAWINGS			Drawn JD					
				Checked JZ					
				Reviewed JZ					
				Approved JZ					
				Reg. No. 25118					
				Plot Date 12-18-14					
				Rev	Date	Description			By





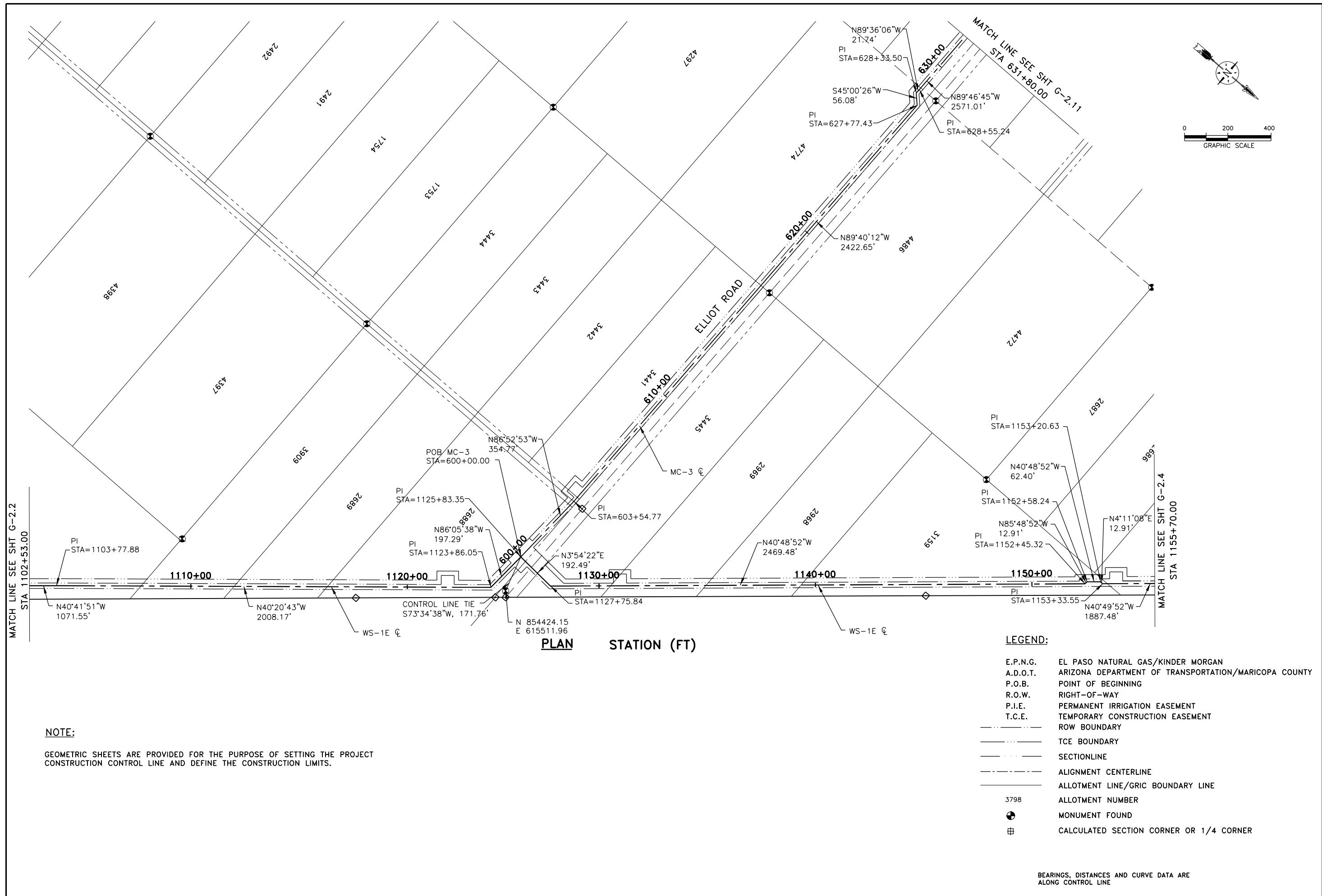
GEOMETRIC SHEETS ARE PROVIDED FOR THE PURPOSE OF SETTING THE PROJECT
CONSTRUCTION CONTROL LINE AND DEFINE THE CONSTRUCTION LIMITS.

LEGEND:

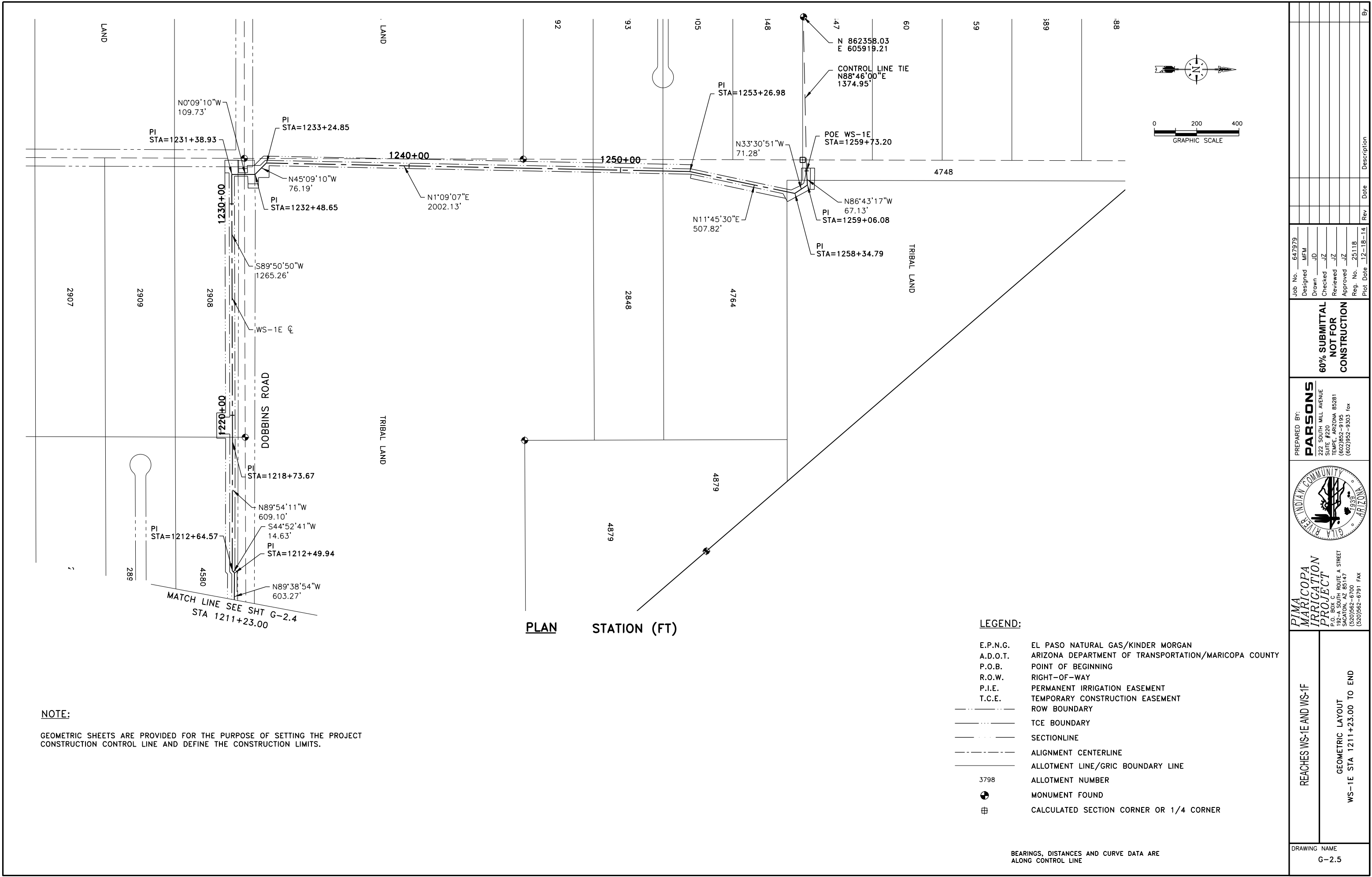
- | | |
|----------|--|
| E.P.N.G. | EL PASO NATURAL GAS/KINDER MORGAN |
| A.D.O.T. | ARIZONA DEPARTMENT OF TRANSPORTATION/MARICOPA COUNTY |
| P.O.B. | POINT OF BEGINNING |
| R.O.W. | RIGHT-OF-WAY |
| P.I.E. | PERMANENT IRRIGATION EASEMENT |
| T.C.E. | TEMPORARY CONSTRUCTION EASEMENT |
| ----- | ROW BOUNDARY |
| ----- | TCE BOUNDARY |
| ----- | SECTIONLINE |
| ----- | ALIGNMENT CENTERLINE |
| ----- | ALLOTMENT LINE/GRIC BOUNDARY LINE |
| 3798 | ALLOTMENT NUMBER |
| ⊙ | MONUMENT FOUND |
| ⊠ | CALCULATED SECTION CORNER OR 1/4 CORNER |

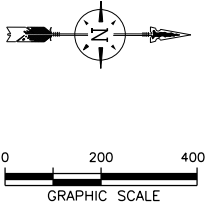
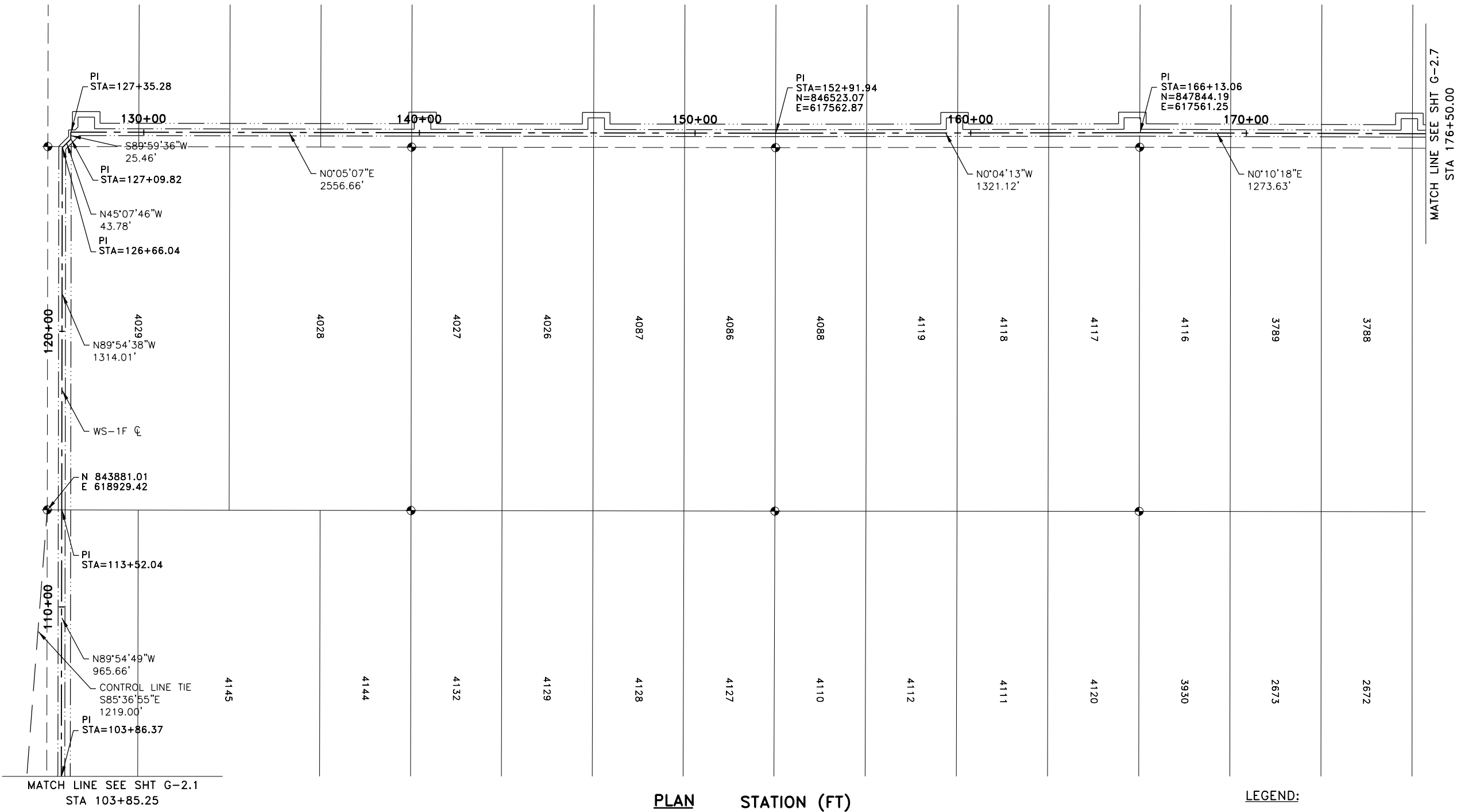
BEARINGS, DISTANCES AND CURVE DATA ARE
ALONG CONTROL LINE

[illegible]



DRAWING NAME G-2.3	REACHES WS-1E AND WS-1F	PIMA MARICOPA IRRIGATION PROJECT P.O. BOX C 1000 ROUTE A STREET SACATON, AZ 85147 (520)562-6700 (520)562-6791 FAX  PREPARED BY: PARSONS 222 SOUTH WILL AVENUE SUITE #220 TEMPE, ARIZONA 85281 (602)852-9195 (602)952-9303 fax	60% SUBMITTAL NOT FOR CONSTRUCTION	Job No. 647979	Designed MFM					
	GEOMETRIC LAYOUT WS-1E STA. 1102+53 TO STA. 1155+70 AND MC-3 STA. 600+00 TO STA. 631+80			Drawn JD	Checked JZ	Reviewed JZ	Approved JZ	Reg. No. 25118	Plot Date 12-18-14	Rev





NOTE:

GEOMETRIC SHEETS ARE PROVIDED FOR THE PURPOSE OF SETTING THE PROJECT CONSTRUCTION CONTROL LINE AND DEFINE THE CONSTRUCTION LIMITS.

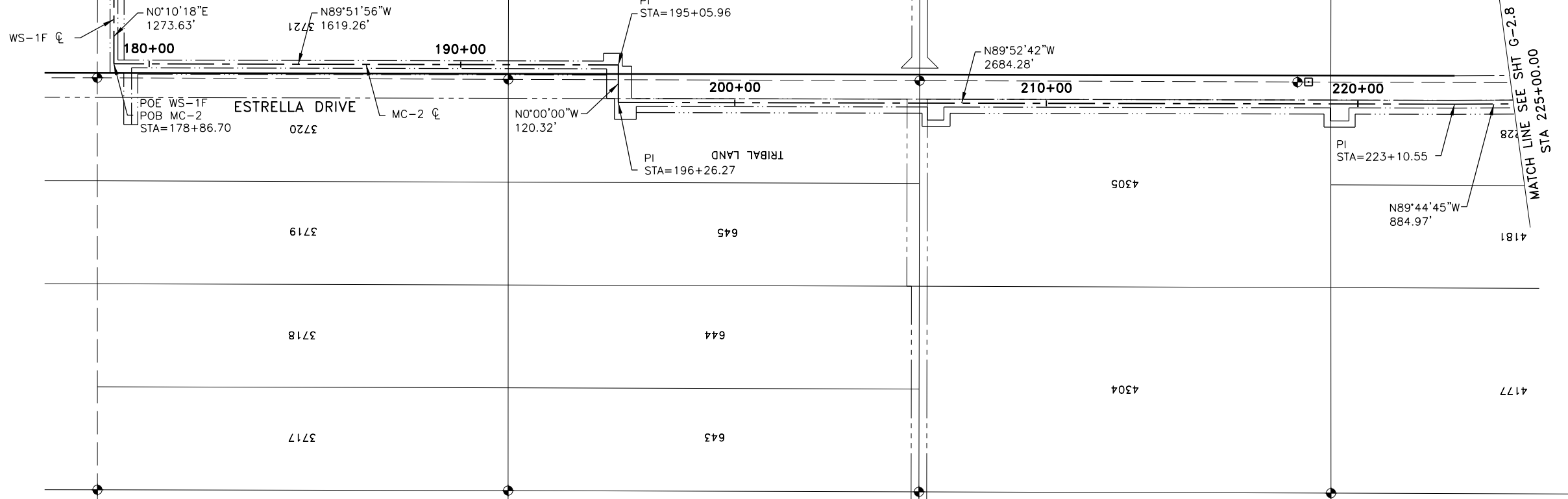
LEGEND:

- E.P.N.G. EL PASO NATURAL GAS/KINDER MORGAN
A.D.O.T. ARIZONA DEPARTMENT OF TRANSPORTATION/MARICOPA COUNTY
P.O.B. POINT OF BEGINNING
R.O.W. RIGHT-OF-WAY
P.I.E. PERMANENT IRRIGATION EASEMENT
T.C.E. TEMPORARY CONSTRUCTION EASEMENT
--- ROW BOUNDARY
--- TCE BOUNDARY
--- SECTIONLINE
--- ALIGNMENT CENTERLINE
--- ALLOTMENT LINE/GRIC BOUNDARY LINE
3798 ALLOTMENT NUMBER
MONUMENT FOUND
CALCULATED SECTION CORNER OR 1/4 CORNER

BEARINGS, DISTANCES AND CURVE DATA ARE
ALONG CONTROL LINE

Job No. 647679		Designed MFM		Drawn JZ		Checked JZ		Reviewed JZ		Approved JZ		Reg. No. 25118		Plot Date 12-18-14		Rev		Date		Description		By	
60% SUBMITTAL NOT FOR CONSTRUCTION																							
PREPARED BY: PARSONS 222 SOUTH MILL AVENUE SUITE #220 TEMPE, ARIZONA 85281 (602)952-9195 (602)952-9303 fax																							
																							
PIMA MARICOPA IRRIGATION PROJECT P.O. BOX C, ROUTE A STREET SACATON, AZ 85147 (520)562-6700 (520)562-6791 FAX																							
REACHES WS-1E AND WS-1F												GEOMETRIC LAYOUT WS-1F STA 103+85.00 TO 176+50.25											
DRAWING NAME G-2.6																							

MATCH LINE SEE SHT G-2.6
STA 176+50.00



PLAN STATION (FT)

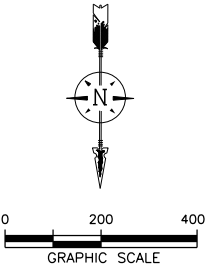
NOTE:

GEOMETRIC SHEETS ARE PROVIDED FOR THE PURPOSE OF SETTING THE PROJECT CONSTRUCTION CONTROL LINE AND DEFINE THE CONSTRUCTION LIMITS.

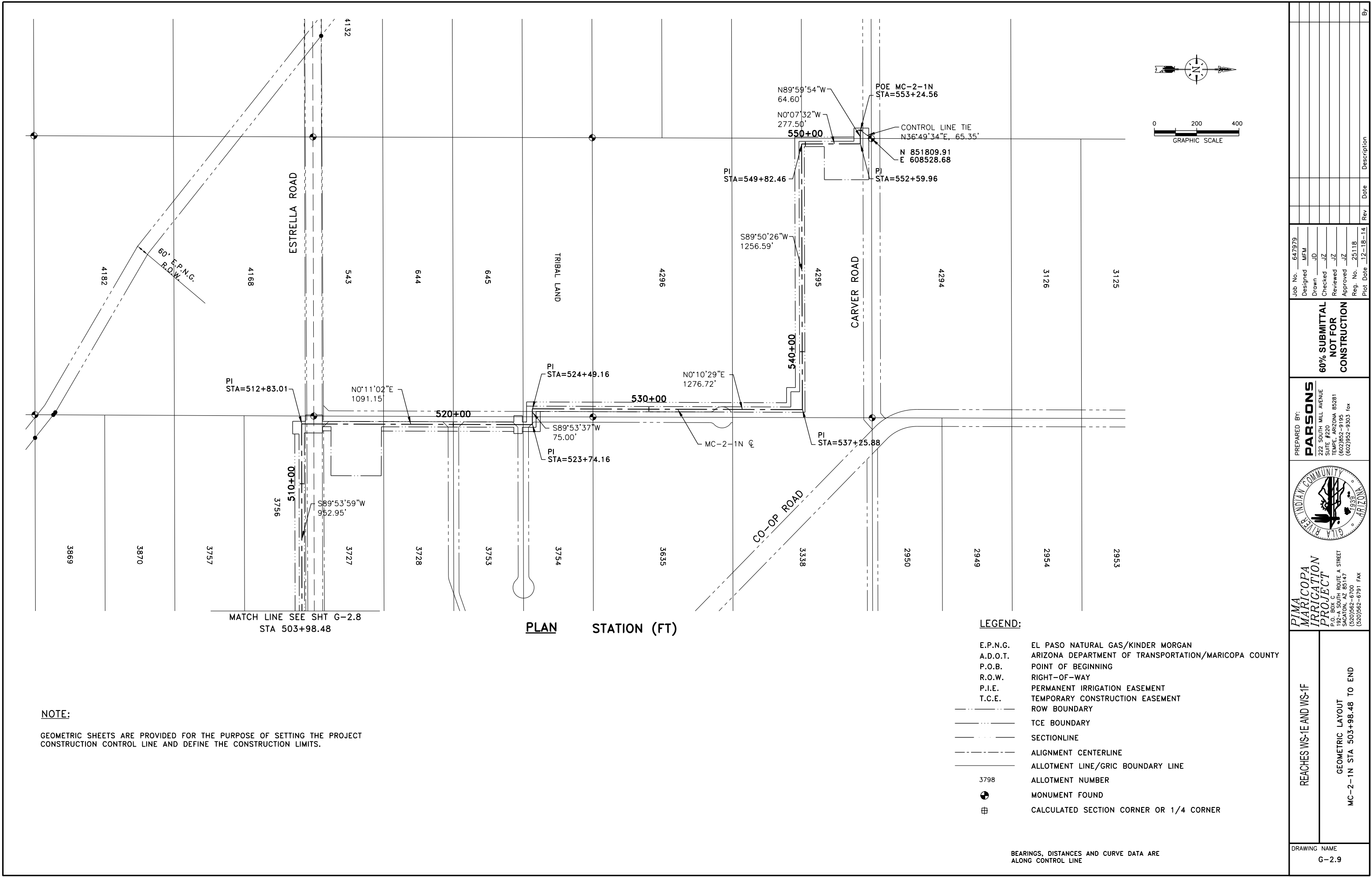
LEGEND:

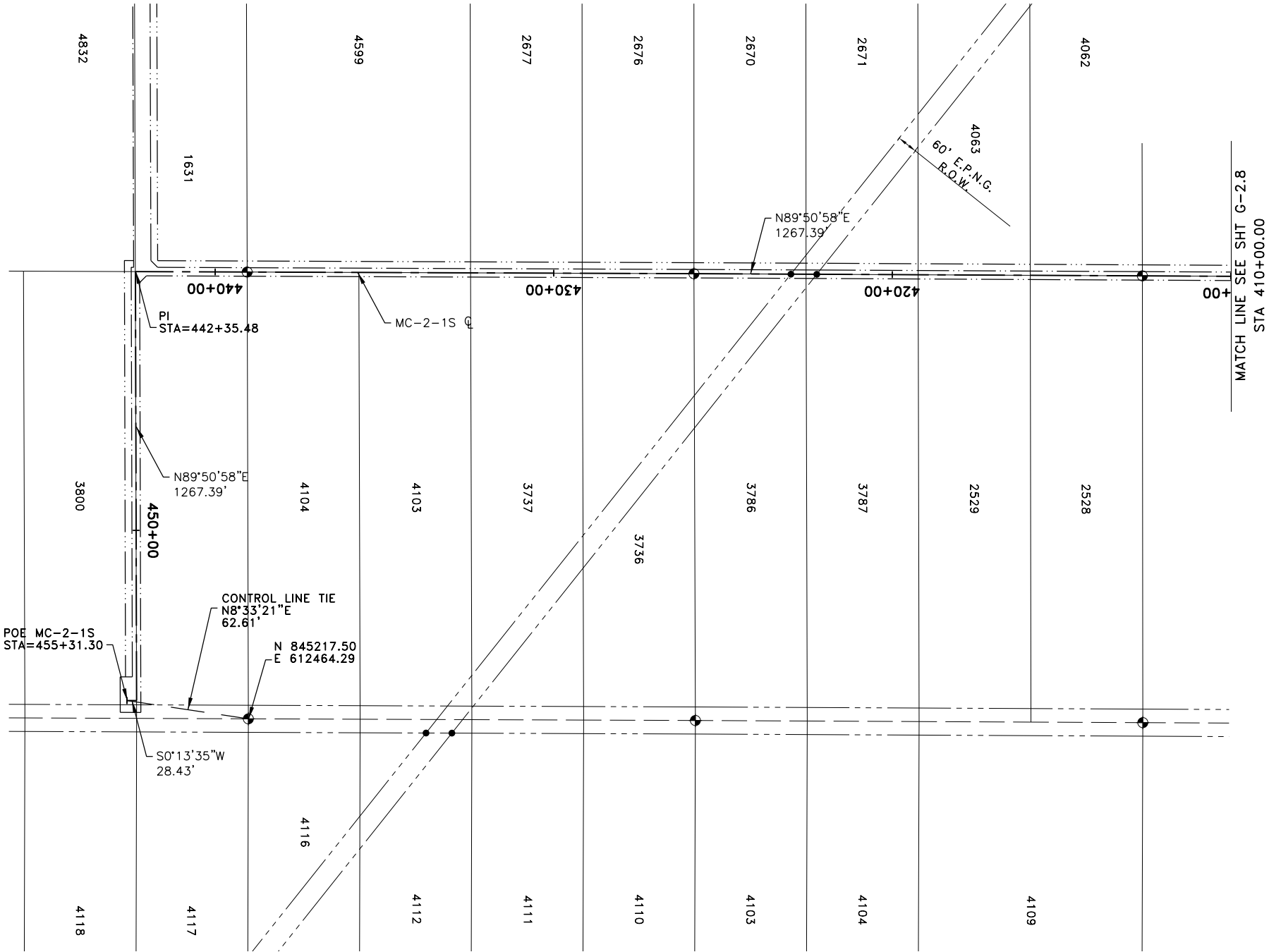
- | | |
|------|---|
| ... | E.P.N.G. EL PASO NATURAL GAS/KINDER MORGAN |
| --- | A.D.O.T. ARIZONA DEPARTMENT OF TRANSPORTATION/MARICOPA COUNTY |
| --- | P.O.B. POINT OF BEGINNING |
| --- | R.O.W. RIGHT-OF-WAY |
| --- | P.I.E. PERMANENT IRRIGATION EASEMENT |
| --- | T.C.E. TEMPORARY CONSTRUCTION EASEMENT |
| --- | ROW BOUNDARY |
| --- | TCE BOUNDARY |
| --- | SECTIONLINE |
| --- | ALIGNMENT CENTERLINE |
| --- | ALLOTMENT LINE/GRIC BOUNDARY LINE |
| 3798 | ALLOTMENT NUMBER |
| ● | MONUMENT FOUND |
| ⊕ | CALCULATED SECTION CORNER OR 1/4 CORNER |

BEARINGS, DISTANCES AND CURVE DATA ARE
ALONG CONTROL LINE



DRAWING NAME		REACHES WS-1E AND WS-1F		PIMA MARICOPA IRRIGATION PROJECT P.O. BOX C 1500 ROUTE A STREET SACATON, AZ 85147 (520)562-6700 (520)562-6791 FAX		PREPARED BY: PARSONS 222 SOUTH MILL AVENUE SUITE #220 TEMPE, ARIZONA 85281 (602)952-9195 (602)952-9303 fax		60% SUBMITTAL NOT FOR CONSTRUCTION		Job No. 647979 Designed MFM Drawn JD Checked JZ Reviewed JZ Approved JZ Reg. No. 25118 Plot Date 12-18-14		Rev	Date	Description	By		
G-2.7		WS-1F STA 176+50.00 TO 225+00.00				GEOMETRIC LAYOUT											





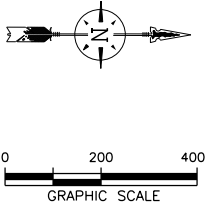
PLAN STATION (FT)

NOTE:

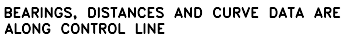
GEOMETRIC SHEETS ARE PROVIDED FOR THE PURPOSE OF SETTING THE PROJECT CONSTRUCTION CONTROL LINE AND DEFINE THE CONSTRUCTION LIMITS.

- LEGEND:
- E.P.N.G. EL PASO NATURAL GAS/KINDER MORGAN
 - A.D.O.T. ARIZONA DEPARTMENT OF TRANSPORTATION/MARICOPA COUNTY
 - P.O.B. POINT OF BEGINNING
 - R.O.W. RIGHT-OF-WAY
 - P.I.E. PERMANENT IRRIGATION EASEMENT
 - T.C.E. TEMPORARY CONSTRUCTION EASEMENT
 - ROW BOUNDARY
 - TCE BOUNDARY
 - SECTIONLINE
 - ALIGNMENT CENTERLINE
 - ALLOTMENT LINE/GRIC BOUNDARY LINE
 - 3798 ALLOTMENT NUMBER
 - MONUMENT FOUND
 - CALCULATED SECTION CORNER OR 1/4 CORNER

BEARINGS, DISTANCES AND CURVE DATA ARE
ALONG CONTROL LINE



DRAWING NAME G-2.10		REACHES WS-1E AND WS-1F GEOMETRIC LAYOUT MC-2-2-1S STA 410+00.00 TO END	 PIMA MARICOPA IRRIGATION PROJECT P.O. BOX C, ROUTE A STREET SACATON, AZ 85147 (520)562-6700 (520)562-6791 FAX	 GILA RIVER INDIAN COMMUNITY 222 SOUTH MILL AVENUE SUITE #220 TEMPE, ARIZONA 85281 (602)952-9195 (602)952-9303 fax	PREPARED BY: PARSONS	60% SUBMITTAL NOT FOR CONSTRUCTION	Job No. 647979	By
Designed MFM	Date							
Drawn JZ	Rev							
Checked JZ								
Reviewed JZ								
Approved JZ								
Reg. No. 25118								
Plot Date 12-18-14								



GEOMETRIC SHEETS ARE PROVIDED FOR THE PURPOSE OF SETTING THE PROJECT
CONSTRUCTION CONTROL LINE AND DEFINE THE CONSTRUCTION LIMITS.

E.P.N.G.	EL PASO NATURAL GAS/KINDER MORGAN
A.D.O.T.	ARIZONA DEPARTMENT OF TRANSPORTATION/MARICOPA COUNTY
P.O.B.	POINT OF BEGINNING
R.O.W.	RIGHT-OF-WAY
P.I.E.	PERMANENT IRRIGATION EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
_____	ROW BOUNDARY
_____	TCE BOUNDARY
_____	SECTIONLINE
_____	ALIGNMENT CENTERLINE
_____	ALLOTMENT LINE/GRIC BOUNDARY LINE
3798	ALLOTMENT NUMBER
⊙	MONUMENT FOUND
⊕	CALCULATED SECTION CORNER OR 1/4 CORNER

GEOMETRIC LAYOUT

DRAWING NAME	G-2.11
--------------	--------

**PIMA
MARICOPA
IRRIGATION
PROJECT**

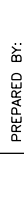
Job No.	647979			
Designed	WFM			
Drawn	JD			
Checked	JZ			
Reviewed	JZ			
Approved	JZ			
Reg. No.	25118			
Plot Date	12-18-14	Rev.	Date	Description
				Rev.

SHEET 1 OF 12
REACHES WS-1E AND WS-1F

			LENGTH	SITE CLEARING	CUT EXCAVATION NEAT LINES (A)	EMBANKMENT FILL CONSTRUCTION NEAT LINES (B)	REQUIRED FILL WITH 25% SHRINKAGE SEE NOTE 2 (C)=B*1.25	NET BORROW(+) OR WASTE(-) (D)=C-A	STRUCTURAL CONCRETE 4,000 PSI	FIBER REIN. CONCRETE, CANAL LINING, 4" HAND PLACED, 3,000 PSI		PRECAST FLOW METER MANHOLE, 3'	PRECAST FLOW METER MANHOLE, 4'	PRECAST FLOW METER MANHOLE, 5'	PRECAST FLOW METER MANHOLE, 6'	PRECAST FLOW METER MANHOLE, 7'	PRECAST VAULT TYPE A	PRECAST VAULT TYPE B	PRECAST VAULT TYPE C	PRECAST VAULT TYPE D	PRECAST VAULT TYPE E	PRECAST VAULT TYPE F	PRECAST VAULT TYPE H	PLUG VALVE, 18"	PLUG VALVE, 24"	PLUG VALVE, 30"	PLUG VALVE, 36"	PLUG VALVE, 42"
START STATION	END STATION	SHEET NUMBER										S-2.2	S-2.2	S-2.2	S-2.2	S-2.2	S-3.0	S-3.0	S-3.1	S-3.0	S-3.0	S-3.1	S-3.1	M-2.0	M-2.1	M-2.1	M-2.2	M-2.2
	DESCRIPTION		LF	AC	CY	CY	CY	CY	SY	CY		EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
MAINLINE IRRIGATION PIPE QUANTITIES																												
WS-1E																												
1000+85	1024+50	P-1.1	2364.87	2.35			0	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1024+50	1050+00	P-1.2	2550	2.53			0	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1050+00	1073+50	P-1.3	2350	2.33			0	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1073+50	1098+50	P-1.4	2500	2.48			0	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1098+50	1120+50	P-1.5	2200	2.18			0	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1120+50	1139+50	P-1.6	1900	1.88			0	0				-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-
1139+50	1163+50	P-1.7	2400	2.38			0	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1163+50	1187+50	P-1.8	2400	2.38			0	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1187+50	1207+50	P-1.9	2000	1.98			0	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1207+50	1231+00	P-1.10	2350	2.33			0	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1231+00	1254+50	P-1.11	2350	2.33			0	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1254+50	1256+69	P-1.12	219	0.22			0	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WS-1F																												
100+98	123+50	P-2.1	2251.92	2.23			0	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
123+50	147+50	P-2.2	2400	2.38			0	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
147+50	172+50	P-2.3	2500	2.48			0	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
172+50	178+87	P-2.4	636.7	0.63			0	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MC-2																												
178+87	195+50	P-2.4	1663.3	1.65			0	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
195+50	220+50	P-2.5	2500	2.48			0	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220+50	245+31	P-2.6	2481	2.46			0	0				-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	1
MC-1																												
301+77	323+50	P-3.1	2173.06	2.16			0	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
323+50	346+19	P-3.2	2268.6	2.25			0	0				-	-	1	-	-	-	1	-	-	-	-	-	-	-	1	-	-
MC-2-1S																												
400+00	421+50	P-4.1	2150	2.13			0	0				-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-
421+50	443+50	P-4.2	2200	2.18			0	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
443+50	455+03	P-4.3	1152.68	0.76			0	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MC-2-1N																												
500+00	522+50	P-5.1	2250	2.23			0	0				-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	1	-
522+50	544+50	P-5.2	2200	2.18			0	0				-	1	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-
544+50	553+25	P-5.3	874.56	0.58			0	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MC-3																												
600+00	623+50	P-6.1	2350	2.33			0	0				-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-
623+50	647+50	P-6.2	2400	2.38			0	0				-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-
647+50	688+50	P-6.3	4100	4.07			0	0				-	1	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-
688+50	690+20	P-6.4	170.14	0.17			0	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MC-3-1N																												
700+00	720+50	P-7.1	2050	2.03			0	0				-	1	-	-	-	1	-	-	-	1	-	1	-	1	-	-	-
720+50	730+61	P-7.2	1010.8	1.00			0	0				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MC-2-2N																												
800+00	821+50	P-8.1	2150	2.13			0	0				-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-
821+50	840+54	P-8.2	1904	1.89			0	0				-	-	1	-	-	-	1	-	-	-	-	-	-	-	1	-	-
MC-3-2N																												
900+00	914+79	P-9.1	1478.91	1.47			0	0				1	-	1	-	-	1	-	-	1	-	-	-	1	-	-	-	-
MC-3-3N																												
0+00	16+30	P-10.1	1630.38	1.62			0	0				-	1	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-
REACH WS-1E AND WS-1F STRUCTURE TOTALS			74530	73	0	0	0	0	0	0		1	4	4	1	2	5	3	3	2	2	0	4	1	4	3	1	1

NOTES:

1. QUANTITIES SHOWN ARE APPROXIMATE AND PROVIDED FOR INFORMATION PURPOSES ONLY AND NOT AS BID ITEMS OR QUANTITIES FOR PAYMENT.
2. REQUIRED TOTAL FILL FOR THE PROJECT AS SHOWN INCLUDES A 25% SHRINKAGE FACTOR FOR GROUND COMPACTION. THE ACTUAL SHRINKAGE MAY VARY.
3. WELL QUANTITIES WILL BE INCLUDED AT 90% SUBMITTAL.

DRAWING NAME G-3.0	REACHES WS-1E AND WS-1F	<i>PIMA MARICOPA IRRIGATION PROJECT</i> P.O. BOX 600 192-A SOUTH ROUTE A STREET SACATON, AZ 85147 (520)562-6700 (520)562-6791 FAX		PREPARED BY: PARSONS 222 SOUTH MILL AVENUE SUITE #220 TEMPE, ARIZONA 85281 (602)852-9195 (602)952-9303 fax	60% SUBMITTAL NOT FOR CONSTRUCTION	Job No. 647979	Rev	Date	Description	By
	MATERIAL QUANTITIES SHEET 1 OF 12					Designed MFM				

SHEET 2 OF 12
REACHES WS-1E AND WS-1F

[illegible]

NOTES:

1. QUANTITIES SHOWN ARE APPROXIMATE AND PROVIDED FOR INFORMATION PURPOSES ONLY AND NOT AS BID ITEMS OR QUANTITIES FOR PAYMENT.
2. REQUIRED TOTAL FILL FOR THE PROJECT AS SHOWN INCLUDES A 25% SHRINKAGE FACTOR FOR GROUND COMPACTION. THE ACTUAL SHRINKAGE MAY VARY.
3. WELL QUANTITIES WILL BE INCLUDED AT 90% SUBMITTAL.

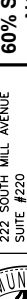
[illegible]

SHEET 3 OF 12
REACHES WS-1E AND WS-1F

			ADOT SD 6.30 STRAIGHT TYPE, L=30', 12"	MAG 501-4 TYPE HEAD WALL	MAG 501-1 TYPE HEAD WALL	GUARD POST	SAFETY LADDER	TRASH RACKS 18"	TRASH RACKS 24"	TRASH RACKS 30"	TRASH RACKS 36"	TRASH RACKS 42"	HAND RAIL		12" RCP ASTM C-76	30" RCP ASTM C-76	18" IRRIGATION PIPE SEE PIPE SCHEDULE	24" IRRIGATION PIPE SEE PIPE SCHEDULE	30" IRRIGATION PIPE SEE PIPE SCHEDULE	36" IRRIGATION PIPE SEE PIPE SCHEDULE	42" IRRIGATION PIPE SEE PIPE SCHEDULE	48" IRRIGATION PIPE SEE PIPE SCHEDULE	54" IRRIGATION PIPE SEE PIPE SCHEDULE	BEND, 18" 90- DEGREE	BEND, 24" 11.25- DEGREE	BEND, 24" 45- DEGREE
START STATION	END STATION	SHEET NUMBER			M-6.0	M-6.0									LF	LF	LF	LF	LF	LF	LF	LF	LF	EA.	EA.	EA.
DESCRIPTION			EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF		LF	LF	LF	LF	LF	LF	LF	LF	LF	EA.	EA.	EA.
MAINLINE IRRIGATION PIPE QUANTITIES																										
WS-1E																										
1000+85	1024+50	P-1.1	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	1735	-	-	-
1024+50	1050+00	P-1.2	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	2549	-	-	-
1050+00	1073+50	P-1.3	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	2349	-	-	-
1073+50	1098+50	P-1.4	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	2468	-	-	-
1098+50	1120+50	P-1.5	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	2200	-	-	-
1120+50	1139+50	P-1.6	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	1891	-	-	-
1139+50	1163+50	P-1.7	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	2397	-	-	-
1163+50	1187+50	P-1.8	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	2696	-	-	-
1187+50	1207+50	P-1.9	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	103	1226	371	-	-	-
1207+50	1231+00	P-1.10	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	2347	-	-	-	-	-
1231+00	1254+50	P-1.11	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	2346	-	-	-	-	-
1254+50	1256+69	P-1.12	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	518	-	-	-	-	-
WS-1F																										
100+98	123+50	P-2.1	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	2074	-	-	-	-
123+50	147+50	P-2.2	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	1958	439	-	-	-	-
147+50	172+50	P-2.3	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	2498	-	-	-	-	-
172+50	178+87	P-2.4	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	590	-	-	-	-	-
MC-2																										
178+87	195+50	P-2.4	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	1661	-	-	-	-	-
195+50	220+50	P-2.5	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	2498	-	-	-	-	-
220+50	245+31	P-2.6	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	2476	-	-	-	-	-
MC-1																										
301+77	323+50	P-3.1	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	2170	-	-	-	-
323+50	346+19	P-3.2	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	396	-	-	1880	-	-	-	-
MC-2-1S																										
400+00	421+50	P-4.1	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	2099	49	-	-	-	-	-	-
421+50	443+50	P-4.2	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	2199	-	-	-	-	-	-	-
443+50	455+03	P-4.3	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	1176	-	-	-	-	-	-	-
MC-2-1N																										
500+00	522+50	P-5.1	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	756	1491	-	-	-	-	-	-
522+50	544+50	P-5.2	-	-	-	-	-	-	-	-	-	-	-		-	-	-	699	1498	-	-	-	-	-	-	-
544+50	553+25	P-5.3	-	-	-	-	-	-	-	-	-	-	-		-	-	-	869	-	-	-	-	-	-	-	-
MC-3																										
600+00	623+50	P-6.1	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	1949	393	-	-	-
623+50	647+50	P-6.2	-	-	-	-	-	-	-	-	-	-	-		-	-	-	2391	-	-	-	-	-	-	-	-
647+50	688+50	P-6.3	-	-	-	-	-	-	-	-	-	-	-		-	-	-	286	-	996	-	1930	-	-	-	-
688+50	690+20	P-6.4	-	-	-	-	-	-	-	-	-	-	-		-	-	-	2322	-	-	-	-	-	-	-	2
MC-3-1N																										
700+00	720+50	P-7.1	-	-	-	-	-	-	-	-	-	-	-		-	-	-	587	-	-	1534	-	-	-	-	-
720+50	730+61	P-7.2	-	-	-	-	-	-	-	-	-	-	-		-	-	-	1005	-	-	-	-	-	-	-	-
MC-2-2N																										
800+00	821+50	P-8.1	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	2149	-	-	-	-	-
821+50	840+54	P-8.2	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	1406	-	388	-	-	-	-	-
MC-3-2N																										
900+00	914+79	P-9.1	-	-	-	-	-	-	-	-	-	-	-		-	-	149	-	1320	-	-	-	-	1	-	-
MC-3-3N																										
0+00	16+30	P-10.1	-	-	-	-	-	-	-	-	-	-	-		-	-	-	1656	-	-	-	-	-	-	1	-
REACH WS-1E AND WS-1F STRUCTURE TOTALS			0	0	0	0	0	0	0	0	0	0	0	0	0	0	149	9814	10851	2535	21066	11669	19048	1	1	2

NOTES:

1. QUANTITIES SHOWN ARE APPROXIMATE AND PROVIDED FOR INFORMATION PURPOSES ONLY AND NOT AS BID ITEMS OR QUANTITIES FOR PAYMENT.
2. REQUIRED TOTAL FILL FOR THE PROJECT AS SHOWN INCLUDES A 25% SHRINKAGE FACTOR FOR GROUND COMPACTION. THE ACTUAL SHRINKAGE MAY VARY.
3. WELL QUANTITIES WILL BE INCLUDED AT 90% SUBMITTAL.

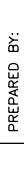
DRAWING NAME G-3.2	REACHES WS-1E AND WS-1F MATERIAL QUANTITIES SHEET 3 OF 12	PIMA MARICOPA IRRIGATION PROJECT  PREPARED BY: PARSONS 272 SOUTH MILL AVENUE SUITE #220 TEMPE, ARIZONA 85281 (602)852-9195 (602)952-9303 fax	Job No. 647979 Designed JFW Drawn JD Checked JZ Reviewed JZ Approved JZ Reg. No. 25118 Plot Date 12-18-14	Rev	Date	Description	By

SHEET 4 OF 12
REACHES WS-1E AND WS-1F

[illegible]

NOTES:

1. QUANTITIES SHOWN ARE APPROXIMATE AND PROVIDED FOR INFORMATION PURPOSES ONLY AND NOT AS BID ITEMS OR QUANTITIES FOR PAYMENT.
2. REQUIRED TOTAL FILL FOR THE PROJECT AS SHOWN INCLUDES A 25% SHRINKAGE FACTOR FOR GROUND COMPACTION. THE ACTUAL SHRINKAGE MAY VARY.
3. WELL QUANTITIES WILL BE INCLUDED AT 90% SUBMITTAL.

DRAWING NAME G-3.3	REACHES WS-1E AND WS-1F	PIMA MARICOPA IRRIGATION PROJECT P.O. BOX C 192-A SOUTH ROUTE A STREET SACATON, AZ 85147 (520)562-6700 (520)562-6791 FAX		PREPARED BY: PARSONS 222 SOUTH MILL AVENUE SUITE #220 TEMPE, ARIZONA 85281 (602)852-9195 (602)932-9303 fax	60% SUBMITTAL NOT FOR CONSTRUCTION	Job No. 647979	Rev	Date	Description	By
	MATERIAL QUANTITIES SHEET 4 OF 12					Designed MFM				

SHEET 5 OF 12
REACHES WS-1E AND WS-1F

[illegible]

NOTES:

1. QUANTITIES SHOWN ARE APPROXIMATE AND PROVIDED FOR INFORMATION PURPOSES ONLY AND NOT AS BID ITEMS OR QUANTITIES FOR PAYMENT.
2. REQUIRED TOTAL FILL FOR THE PROJECT AS SHOWN INCLUDES A 25% SHRINKAGE FACTOR FOR GROUND COMPACTION. THE ACTUAL SHRINKAGE MAY VARY.
3. WELL QUANTITIES WILL BE INCLUDED AT 90% SUBMITTAL.

DRAWING NAME G-3.4	REACHES WS-1E AND WS-1F	PIMA ARRICOPA IRRIGATION PROJECT P.O. BOX C 1400 S. QUINN ROUTE A STREET SAGATON, AZ 85147 (520)562-6700 (520)562-6791 FAX		PREPARED BY: PARSONS 232 SOUTH MILL AVENUE SUITE #220 TEMPE, ARIZONA 85281 (602)952-9195 (602)952-9303 fax	60% SUBMITTAL NOT FOR CONSTRUCTION	Job No. 647979	Designed MFM					
						Drawn JD						
						Checked JZ						
						Reviewed JZ						
						Approved JZ						
						Reg. No. 25118						
						Plot Date 12-18-14						
						Rev	Date	Description				By

SHEET 6 OF 12
REACHES WS-1E AND WS-1F

			ELEC- TRICAL SERVICE	SAFETY SIGN SEE NOTE 6	DRIVEWAY CONCRETE HEADER	CHAIN LINK FENCE INC. GATES	LOOSE RIPRAP CLASS 2	FILTER FABRIC	ASPHALT REMOVAL	AGGREGATE BASE	ASPHALT CONCRETE
START STATION	END STATION	SHEET NUMBER			C-2.0	M-6.0	DRN-3.01	DRN-3.01			
	DESCRIPTION			LF	LF	LF	SF	EA	EA	LF	EA
MAINLINE IRRIGATION PIPE QUANTITIES											
WS-1E											
1000+85	1024+50	P-1.1									
1024+50	1050+00	P-1.2									
1050+00	1073+50	P-1.3									
1073+50	1098+50	P-1.4									
1098+50	1120+50	P-1.5									
1120+50	1139+50	P-1.6									
1139+50	1163+50	P-1.7									
1163+50	1187+50	P-1.8									
1187+50	1207+50	P-1.9									
1207+50	1231+00	P-1.10									
1231+00	1254+50	P-1.11									
1254+50	1256+69	P-1.12									
WS-1F											
100+98	123+50	P-2.1									
123+50	147+50	P-2.2									
147+50	172+50	P-2.3									
172+50	178+87	P-2.4									
MC-2											
178+87	195+50	P-2.4									
195+50	220+50	P-2.5									
220+50	245+31	P-2.6									
MC-1											
301+77	323+50	P-3.1									
323+50	346+19	P-3.2									
MC-2-1S											
400+00	421+50	P-4.1									
421+50	443+50	P-4.2									
443+50	455+03	P-4.3									
MC-2-1N											
500+00	522+50	P-5.1									
522+50	544+50	P-5.2									
544+50	553+25	P-5.3									
MC-3											
600+00	623+50	P-6.1									
623+50	647+50	P-6.2									
647+50	688+50	P-6.3									
688+50	690+20	P-6.4									
MC-3-1N											
700+00	720+50	P-7.1									
720+50	730+61	P-7.2									
MC-2-2N											
800+00	821+50	P-8.1									
821+50	840+54	P-8.2									
MC-3-2N											
900+00	914+79	P-9.1									
MC-3-3N											
0+00	16+30	P-10.1									
REACH WS-1E AND WS-1F STRUCTURE TOTALS			0	0	0	0	0	0	0	0	0

NOTES:

1. QUANTITIES SHOWN ARE APPROXIMATE AND PROVIDED FOR INFORMATION PURPOSES ONLY AND NOT AS BID ITEMS OR QUANTITIES FOR PAYMENT.
2. REQUIRED TOTAL FILL FOR THE PROJECT AS SHOWN INCLUDES A 25% SHRINKAGE FACTOR FOR GROUND COMPACTION. THE ACTUAL SHRINKAGE MAY VARY.
3. WELL QUANTITIES WILL BE INCLUDED AT 90% SUBMITTAL.

DRAWING NAME G-3.5	REACHES WS-1E AND WS-1F	PIMA MARICOPA IRRIGATION PROJECT P.O. BOX C 222 SOUTH ROUTE 4 STREET SACATON, AZ 85347 (520)562-6700 (520)562-6791 FAX  PREPARED BY: PARSONS 222 SOUTH MILL AVENUE SUITE #220 TEMPE, ARIZONA 85281 (602)952-9195 (602)952-9303 fax	60% SUBMITTAL NOT FOR CONSTRUCTION	Job No. 647979	Designed MFM						
	MATERIAL QUANTITIES SHEET 6 OF 12			Drawn JD	Checked JZ	Reviewed JZ	Approved JZ	Reg. No. 25118	Plot Date 12-18-14	Rev	Date

SHEET 7 OF 12
REACHES WS-1E AND WS-1F

NOTES:

1. QUANTITIES SHOWN ARE APPROXIMATE AND PROVIDED FOR INFORMATION PURPOSES ONLY AND NOT AS BID ITEMS OR QUANTITIES FOR PAYMENT.
2. REQUIRED TOTAL FILL FOR THE PROJECT AS SHOWN INCLUDES A 25% SHRINKAGE FACTOR FOR GROUND COMPACTION. THE ACTUAL SHRINKAGE MAY VARY.
3. WELL QUANTITIES WILL BE INCLUDED AT 90% SUBMITTAL.

				LENGTH	SITE CLEARING	CUT EXCAVATION NEAT LINES (A)	EMBANKMENT FILL CONSTRUCTION NEAT LINES (B)	REQUIRED FILL WITH 25% SHRINKAGE SEE NOTE 2 (C)=B*1.25	NET BORROW(+) OR WASTE(-) (D)=C-A	STRUCTURAL CONCRETE 4,000 PSI	FIBER REIN. CONCRETE CANAL LINING, 4" HAND PLACED, 3,000 PSI		PRECAST FLOW METER MANHOLE, 3'	PRECAST FLOW METER MANHOLE, 4'	PRECAST FLOW METER MANHOLE, 5'	PRECAST FLOW METER MANHOLE, 6'	PRECAST FLOW METER MANHOLE, 7'	PRECAST VAULT TYPE A	PRECAST VAULT TYPE B	PRECAST VAULT TYPE C	PRECAST VAULT TYPE D	PRECAST VAULT TYPE E	PRECAST VAULT TYPE F	PRECAST VAULT TYPE H	PLUG VALVE, 18"	PLUG VALVE, 24"	PLUG VALVE, 30"	PLUG VALVE, 36"	PLUG VALVE, 42"
START STATION	END STATION	SHEET NUMBER	LF	AC	CY	CY	CY	CY	SY	CY			S-2.2 EA	S-2.2 EA	S-2.2 EA	S-2.2 EA	S-2.2 EA	S-3.0 EA	S-3.0 EA	S-3.1 EA	S-3.0 EA	S-3.0 EA	S-3.1 EA	S-3.1 EA	M-2.0 EA	M-2.1 EA	M-2.1 EA	M-2.2 EA	M-2.2 EA
TURNOUTS																													
WS-1E																													
	WS-1E-2	P-1.1		0.09									1					1							1				
	WS-1E-3	P-1.2		0.09									1					1							1				
	WS-1E-4	P-1.2		0.09									1					1							1				
	WS-1E-5	P-1.3		0.09									1					1							1				
	WS-1E-6	P-1.4		0.09									1					1							1				
	WS-1E-7	P-1.6		0.09									1					1							1				
	WS-1E-8	P-1.6		0.09									1					1							1				
	WS-1E-9	P-1.7		0.09									1					1							1				
	WS-1E-10	P-1.8		0.09									1					1							1				
	WS-1E-11	P-1.9		0.09									1					1							1				
	WS-1E-12	P-1.9		0.09									1					1							1				
	WS-1E-13	P-1.10		0.09									1					1							1				
WS-1F																													
	WS-1F-1	P-2.2		0.09									1					1							1				
	WS-1F-2	P-2.2		0.09									1					1							1				
	WS-1F-3	P-2.2		0.09									1					1							1				
	WS-1F-4	P-2.3		0.09									1					1							1				
	WS-1F-5	P-2.3		0.09									1					1							1				
	WS-1F-6	P-2.4		0.09									1					1							1				
MC-2																													
	MC-2-1	P-2.4		0.17									1					1							1				
	MC-2-2	P-2.5		0.07										1				1								1			
	MC-2-3	P-2.5		0.09										1				1								1			
	MC-2-4	P-2.5		0.09										1				1								1			
	MC-2-5	P-2.6		0.09									1					1							1				
MC-1																													
	MC-1-1	P-3.1		0.12										1					1								1		1
	MC-1-2	P-3.1		0.06												1												1	
	MC-1-3	P-3.1		0.10												1													
MC-2-1S																													
	MC-21S-2	P-4.1		0.09									1					1							1				
	MC-21S-3	P-4.1		0.09									1					1							1				
MC-2-1N																													
	MC21N-1	P-5.2		0.09									1					1							1				
MC-3																													
	MC3-1	P-6.1		0.09									1					1							1				
	MC3-2	P-6.3		0.09									1					1							1				
	MC3-3	P-6.3		0.09									1					1							1				
	MC3-4	P-6.3		0.09									1					1							1				
	MC3-5	P-6.4		0.09									1					1							1				
	MC3-6	P-6.4		0.09									1					1							1				
	MC3-7	P-6.4		0.09									1					1							1				
MC-3-1N																													
	MC31N-1	P-7.1		0.09									1					1							1				
	MC31N-2	P-7.1		0.09									1					1							1				
MC-2-2N																													
	MC22N-1	P-8.2		0.09										1				1								1			
	MC22N-2	P-8.2		0.09										1				1								1			
	MC22N-3	P-8.2		0.09										1				1								1			
MC-3-2N																													
	MC32N-1	P-9.1		0.09									1					1							1				
DRAINAGE AND BASIN																													
WS-1E																													
	WS-1E	P-1.1																											
MC-1																													
	MC-1	P-3.1																					1						
MC-2-1S																													
	MC-2-1S	P-4.2																					1						
MC-2-1N																													
	MC-2-1N SOUTH MC-2-1N NORTH	DRN 4.04 DRN 4.03		1.15 0.76	941 254																		1 1						
MC-3-1N																													
	MC-3-1N	DRN 4.01		1.50	1,934																		1						
MC-2-2N																													
	MC-2-2N	DRN 4.02		0.87	652																		1						
MC-3-2N																													
	MC-3-2N	P-9.1																					1						
SRP TAILWATER																													
	SRP TAILWATER	DRN 1.01			1,240						239																		
MAINLINE IRRIGATION PIPE QUANTITIES			74,530	73	0	0	0	0	0	0	0	1	4	4	1	2	5	3	3	2	2	0	4	1	4	3	1	1	1
TURNOUT TOTALS			0	4	0	0	0	0	0	0	0	33	7	0	2	0	38	1	0	0	0	0	0	33	6	1	1	0	
DRAINAGE TOTALS			0	4	5,020	0	0	0	0	0	239	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	
REACHES WS-1E AND WS-1F TOTALS			74530	81	5020	0	0	0	0	0	239	34	11	4	3	2	43	4	3	2	2	7	4	34	10	4	2	1	

DRAWING NAME G-3.6	REACHES WS-1E AND WS-1F MATERIAL QUANTITIES SHEET 7 OF 12	PIMA MARICOPA IRRIGATION PROJECT P.O. BOX C 12001 N. ROUTE 4 STREET SAGATON, AZ 85147 (520)562-6700 (520)562-6791 FAX		PREPARED BY: PARSONS 222 SOUTH MILL AVENUE SUITE #220 TEMPE, ARIZONA 85281 (602)952-9195 (602)952-9303 fax	Job No. 647979							
					Designed MFM							
					60% SUBMITTAL NOT FOR CONSTRUCTION							
					Drawn JD							
					Checked JZ							
					Reviewed JZ							
					Approved JZ							
					Reg. No. 25118							
					Plot Date 12-18-14							
					Rev	Date	Description					

SHEET 8 OF 12
REACHES WS-1E AND WS-1F

NOTES:

1. QUANTITIES SHOWN ARE APPROXIMATE AND PROVIDED FOR INFORMATION PURPOSES ONLY AND NOT AS BID ITEMS OR QUANTITIES FOR PAYMENT.
2. REQUIRED TOTAL FILL FOR THE PROJECT AS SHOWN INCLUDES A 25% SHRINKAGE FACTOR FOR GROUND COMPACTION. THE ACTUAL SHRINKAGE MAY VARY.
3. WELL QUANTITIES WILL BE INCLUDED AT 90% SUBMITTAL.

			PLUG VALVE, 48"	PLUG VALVE, 54"	BUTTER-FLY VALVE, 30"	BUTTER-FLY VALVE, 36"	BUTTER-FLY VALVE, 42"	BUTTER-FLY VALVE, 48"	BUTTER-FLY VALVE, 54"	KNIFE GATE VALVE, 12"	KNIFE GATE VALVE, 18"	KNIFE GATE VALVE, 24"	FLAP GATE, 12"	FLOW METER, 18"	FLOW METER, 24"	FLOW METER, 30"	FLOW METER, 36"	FLOW METER, 42"	FLOW METER, 48"	FLOW METER, 54"	CONCRETE OUTLET HEADWALL, 18"	CONCRETE OUTLET HEADWALL, 24"	CONCRETE OUTLET HEADWALL, 30"	CONCRETE OUTLET HEADWALL, 36"	CONCRETE OUTLET HEADWALL, 42"	ADOT C-15.75 DROP INLET HEADWALL, 30"	ADOT SD 6.30, STRAIGHT TYPE, 30"
START STATION	END STATION	SHEET NUMBER	M-2.3	M-2.3	M-1.0	M-1.0	M-1.0	M-1.0	M-1.0	M-3.0	M-3.0	M-3.0	M-5.0	S-2.3	S-2.3	S-2.3	S-2.3	S-2.3	S-2.3	S-2.3	S-2.1	S-2.1	S-2.1	S-2.1	S-2.1	EA	EA
TURNOUTS			EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
WS-1E																											
	WS-1E-2	P-1.1									1			1							1						
	WS-1E-3	P-1.2									1			1							1						
	WS-1E-4	P-1.2									1			1							1						
	WS-1E-5	P-1.3									1			1							1						
	WS-1E-6	P-1.4									1			1							1						
	WS-1E-7	P-1.6									1			1							1						
	WS-1E-8	P-1.6									1			1							1						
	WS-1E-9	P-1.7									1			1							1						
	WS-1E-10	P-1.8									1			1							1						
	WS-1E-11	P-1.9									1			1							1						
	WS-1E-12	P-1.9									1			1							1						
	WS-1E-13	P-1.10									1			1							1						
WS-1F																											
	WS-1F-1	P-2.2									1			1							1						
	WS-1F-2	P-2.2									1			1							1						
	WS-1F-3	P-2.2									1			1							1						
	WS-1F-4	P-2.3									1			1							1						
	WS-1F-5	P-2.3									1			1							1						
	WS-1F-6	P-2.4									1			1							1						
MC-2																											
	MC-2-1	P-2.4									1			1							1						
	MC-2-2	P-2.5										1			1							1					
	MC-2-3	P-2.5										1			1							1					
	MC-2-4	P-2.5										1			1							1					
	MC-2-5	P-2.6									1			2							2						
MC-1																											
	MC-1-1	P-3.1			1											1							1				
	MC-1-2	P-3.1				1											1						1				
	MC-1-3	P-3.1															1						1				
MC-2-1S																											
	MC-21S-2	P-4.1												1							1						
	MC-21S-3	P-4.1												1							1						
MC-2-1N																											
	MC21N-1	P-5.2									1			1							1						
MC-3																											
	MC3-1	P-6.1									1			1							1						
	MC3-2	P-6.3									1			1							1						
	MC3-3	P-6.3									1			1							1						
	MC3-4	P-6.3									1			1							1						
	MC3-5	P-6.4									1			1							1						
	MC3-6	P-6.4									1			1							1						
	MC3-7	P-6.4									1			1							1						
MC-3-1N																											
	MC31N-1	P-7.1									1			1							1						
	MC31N-2	P-7.1									1			1							1						
MC-2-2N																											
	MC22N-1	P-8.2										1			1							1					
	MC22N-2	P-8.2										1			1							1					
	MC22N-3	P-8.2										1			1							1					
MC-3-2N																											
	MC32N-1	P-9.1									1			1							1						
DRAINAGE AND BASIN																											
WS-1E																											
	WS-1E	P-1.1																									
MC-1																											
	MC-1	P-3.1								1																	
MC-2-1S																											
	MC-2-1S	P-4.2								1			1														
MC-2-1N																											
	MC-2-1N SOUTH	DRN 4.04								1																	
	MC-2-1N NORTH	DRN 4.03								1																	
MC-3-1N																											
	MC-3-1N	DRN 4.01								1			1														
MC-2-2N											1																
	MC-2-2N	DRN 4.02								1																	
MC-3-2N																											
	MC-3-2N	P-9.1								1			1														
SRP TAILWATER																											
	SRP TAILWATER	DRN 1.01																								1	1
MAINLINE IRRIGATION PIPE QUANTITIES			1	1	4	1	3	1	2	0	1	4	0	1	4	4	1	3	1	1	1	3	2	0	1	0	0
TURNOUT TOTALS			0	0	1	1	0	0	0	0	31	6	0	34	6	1	2	0	0	0	34	6	1	2	0	0	0
DRAINAGE TOTALS			0	0	0	0	0	0	0	7	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	1
REACHES WS-1E AND WS-1F TOTALS			1	1	5	2	3	1	2	7	32	10	3	35	10	5	3	3	1	1	35	9	3	2	1	1	1

DRAWING NAME	REACHES WS-1E AND WS-1F	PIMA MARICOPA IRRIGATION PROJECT P.O. BOX C 192-A SOUTH ROUTE A STREET SACATON, AZ 85147 (520)562-6700 (520)562-6791 FAX		PREPARED BY: PARSONS 222 SOUTH MILL AVENUE SUITE #220 TEMPE, ARIZONA 85281 (602)852-9195 (602)952-9303 fax	60% SUBMITTAL NOT FOR CONSTRUCTION	Job No. 647979			
	MATERIAL QUANTITIES SHEET 8 OF 12					Designed MFM			
						Drawn JD			
						Checked JZ			
						Reviewed JZ			
						Approved JZ			
						Reg. No. 25118			
						Plot Date 12-18-14			
							Rev	Date	By

SHEET 9 OF 12
REACHES WS-1E AND WS-1F

NOTES:

1. QUANTITIES SHOWN ARE APPROXIMATE AND PROVIDED FOR INFORMATION PURPOSES ONLY AND NOT AS BID ITEMS OR QUANTITIES FOR PAYMENT.
2. REQUIRED TOTAL FILL FOR THE PROJECT AS SHOWN INCLUDES A 25% SHRINKAGE FACTOR FOR GROUND COMPACTION. THE ACTUAL SHRINKAGE MAY VARY.
3. WELL QUANTITIES WILL BE INCLUDED AT 90% SUBMITTAL.

[illegible]

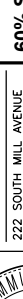
DRAWING NAME G-3.8	REACHES WS-1E AND WS-1F	PIMA MARICOPA IRRIGATION PROJECT  P.O. BOX C 1001 SOUTH ROUTE 4 STREET SACATON, AZ 85147 (520)562-6700 (520)562-6791 FAX	PREPARED BY: PARSONS 222 SOUTH MILL AVENUE SUITE #220 TEMPE, ARIZONA 85281 (602)952-9195 (602)952-9303 fax	60% SUBMITTAL NOT FOR CONSTRUCTION	Job No. 647979 Designed MFM Drawn JD Checked JZ Reviewed JZ Approved JZ Reg. No. 25118	Job No. 647979 Date Rev Description By
	MATERIAL QUANTITIES SHEET 9 OF 12		Job No. 647979 Date Rev Description By			

SHEET 10 OF 12
REACHES WS-1E AND WS-1F

NOTES:

1. QUANTITIES SHOWN ARE APPROXIMATE AND PROVIDED FOR INFORMATION PURPOSES ONLY AND NOT AS BID ITEMS OR QUANTITIES FOR PAYMENT.
2. REQUIRED TOTAL FILL FOR THE PROJECT AS SHOWN INCLUDES A 25% SHRINKAGE FACTOR FOR GROUND COMPACTION. THE ACTUAL SHRINKAGE MAY VARY.
3. WELL QUANTITIES WILL BE INCLUDED AT 90% SUBMITTAL.

			BEND, 24" 90— DEGREE	BEND, 30" 45— DEGREE	BEND, 30" 90— DEGREE	BEND, 42" 11.25— DEGREE	BEND, 42" 30— DEGREE	BEND, 42" 45— DEGREE	BEND, 42" 90— DEGREE	BEND, 48" 11.25— DEGREE	BEND, 48" 45— DEGREE	BEND, 48" 90— DEGREE	BEND, 54" 11.25— DEGREE	BEND, 54" 45— DEGREE	TEE 36"x36" X18"	TEE 42"x42" X12"	TEE 42"x42" X18"	TEE 42"x42" X24"	TEE 42"x42" X30"	TEE 42"x42" X42"	TEE 48"x48" X18"	TEE 48"x48" X30"	TEE 48"x48" X42"	TEE 54"x54" X12"	TEE 54"x54" X18"	TEE 24"x24" X18"	TEE 54"x54" X54"	TEE 24"x24" X18" REDUCER	TEE 24"x24" X24" W/12" REDUCER
START STATION	END STATION	SHEET NUMBER	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
TURNOUTS																													
WS-1E																													
	WS-1E-2	P-1.1																											
	WS-1E-3	P-1.2																											
	WS-1E-4	P-1.2																											
	WS-1E-5	P-1.3																											
	WS-1E-6	P-1.4																											
	WS-1E-7	P-1.6																											
	WS-1E-8	P-1.6																											
	WS-1E-9	P-1.7																											
	WS-1E-10	P-1.8																											
	WS-1E-11	P-1.9																											
	WS-1E-12	P-1.9																											
	WS-1E-13	P-1.10															1												
WS-1F																													
	WS-1F-1	P-2.2																											
	WS-1F-2	P-2.2															1												
	WS-1F-3	P-2.2															1												
	WS-1F-4	P-2.3															1												
	WS-1F-5	P-2.3															1												
	WS-1F-6	P-2.4															1												
MC-2																													
	MC-2-1	P-2.4																				1							
	MC-2-2	P-2.5																											
	MC-2-3	P-2.5																											
	MC-2-4	P-2.5																											
	MC-2-5	P-2.6															1												
MC-1																													
	MC-1-1	P-3.1																											
	MC-1-2	P-3.1																					1						
	MC-1-3	P-3.1																											
MC-2-1S																													
	MC-21S-2	P-4.1																											
	MC-21S-3	P-4.1																											
MC-2-1N																													
	MC21N-1	P-5.2																											
MC-3																													
	MC3-1	P-6.1																											
	MC3-2	P-6.3																					1						
	MC3-3	P-6.3																											
	MC3-4	P-6.3																											
	MC3-5	P-6.4														1													
	MC3-6	P-6.4																											
	MC3-7	P-6.4																											
MC-3-1N																													
	MC31N-1	P-7.1																											
	MC31N-2	P-7.1															1												
MC-2-2N																													
	MC22N-1	P-8.2																											
	MC22N-2	P-8.2																											
	MC22N-3	P-8.2																											
MC-3-2N																													

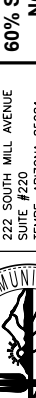
DRAWING NAME G-3.9	REACHES WS-1E AND WS-1F	PIMA MARICOPA IRRIGATION PROJECT P.O. BOX C 192-A, SOUTH ROUTE A STREET TUCSON, ARIZONA 85717 (520)562-6700 (520)562-6791 FAX  PREPARED BY: PARSONS 222 SOUTH MILL AVENUE SUITE #220 TEMPE, ARIZONA 85281 (602)952-9195 (602)952-9303 fax	Job No. 647979 Designed MFW Drawn JD Checked JZ Reviewed JZ Approved JZ Reg. No. 25118 Plot Date 12-18-14	60% SUBMITTAL NOT FOR CONSTRUCTION	Job No. _____ Designed _____ Drawn _____ Checked _____ Reviewed _____ Approved _____ Reg. No. _____ Plot Date _____	Rev _____ Date _____	Description _____	By _____
	MATERIAL QUANTITIES SHEET 10 OF 12							

SHEET 11 OF 12
REACHES WS-1E AND WS-1F

NOTES:

1. QUANTITIES SHOWN ARE APPROXIMATE AND PROVIDED FOR INFORMATION PURPOSES ONLY AND NOT AS BID ITEMS OR QUANTITIES FOR PAYMENT.
2. REQUIRED TOTAL FILL FOR THE PROJECT AS SHOWN INCLUDES A 25% SHRINKAGE FACTOR FOR GROUND COMPACTION. THE ACTUAL SHRINKAGE MAY VARY.
3. WELL QUANTITIES WILL BE INCLUDED AT 90% SUBMITTAL.

[illegible]

DRAWING NAME G-3.10	REACHES WS-1E AND WS-1F	PIMA MARICOPA IRRIGATION PROJECT P.O. BOX C 1400 SOUTH ROUTE 4 STREET SACATON, AZ 85147 (520)562-6700 (520)562-6791 FAX  PREPARED BY: PARSONS 222 SOUTH MILL AVENUE SUITE #220 TEMPE, ARIZONA 85281 (602)852-9195 (602)952-9303 fax	Job No. 647979 Designed MFM Drawn JD Checked JZ Reviewed JZ Approved JZ Reg. No. 25118	60% SUBMITTAL NOT FOR CONSTRUCTION	Job No. 647979 Designed MFM Drawn JD Checked JZ Reviewed JZ Approved JZ Reg. No. 25118	Rev Date Description	By
	MATERIAL QUANTITIES SHEET 11 OF 12		Job No. 647979 Designed MFM Drawn JD Checked JZ Reviewed JZ Approved JZ Reg. No. 25118	60% SUBMITTAL NOT FOR CONSTRUCTION	Job No. 647979 Designed MFM Drawn JD Checked JZ Reviewed JZ Approved JZ Reg. No. 25118	Rev Date Description	By

SHEET 12 OF 12
REACHES WS-1E AND WS-1F

[illegible]

NOTES:
1. QUANTITIES SHOWN ARE APPROXIMATE AND PROVIDED FOR INFORMATION PURPOSES ONLY AND NOT AS BID ITEMS OR QUANTITIES FOR PAYMENT.
2. REQUIRED TOTAL FILL FOR THE PROJECT AS SHOWN INCLUDES A 25% SHRINKAGE FACTOR FOR GROUND COMPACTION. THE ACTUAL SHRINKAGE MAY VARY.
3. WELL QUANTITIES WILL BE INCLUDED AT 90% SUBMITTAL.

DRAWING NAME G-3.11	REACHES WS-1E AND WS-1F	PIMA MARICOPA IRRIGATION PROJECT  P.O. BOX C 1200 N. ROUTE 4 STREET SACATON, AZ 85147 (520)562-6700 (520)562-6791 FAX	PREPARED BY: PARSONS 222 SOUTH MILL AVENUE SUITE #220 TEMPE, ARIZONA 85281 (602)952-9195 (602)952-9303 fax	Job No. 647979 Designed MFH Drawn JD Checked JZ Reviewed JZ Approved JZ Reg. No. 25118 Plot Date 12-18-14	60% SUBMITTAL NOT FOR CONSTRUCTION	Rev Date Description	By
	MATERIAL QUANTITIES SHEET 12 OF 12						

GENERAL NOTES:

1. CONTRACTOR WILL TAKE ALL PRECAUTIONARY MEASURES NECESSARY NOT TO DESTROY BOUNDARY CORNERS, SECTION CORNERS, SURVEY CONTROL POINTS AND EXISTING AERIAL TARGETS. CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING DESTROYED CORNERS, SURVEY CONTROL POINTS AND TARGETS AT HIS OWN EXPENSE.

2. THE INFORMATION ON THESE DRAWINGS CONCERNING THE TYPE, SIZE, AND LOCATION OF UTILITIES HAS BEEN COMPILED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DETERMINATION OF THE EXACT LOCATION OF ALL EXISTING UTILITY FACILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION (CALL THE BLUE STAKE CENTER AT (602) 263-1100 OR APPLICABLE GOVERNING BODIES LISTED IN NOTE 3). IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES IN PLACE, UNLESS OTHERWISE NOTED OR SPECIFIED.

3. A PARTIAL LISTING OF GOVERNING BODIES IS AS FOLLOWS:
ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT)
PHOENIX PERMITS OFFICE, 1801 W. JEFFERSON ST.,
SUITE 120 PHOENIX AZ 85007
PHONE (602) 712-8965, FAX (602) 712-3118

PHOENIX RIGHT-OF-WAY OFFICE
PHONE (602) 712-7316
FAX (602) 712-3257

GILA RIVER TELECOMMUNICATIONS, INC. (GRTI)
P.O. BOX 5015
7065 W. ALLISON DRIVE
CHANDLER, AZ 85226
PHONE (520) 610-0392
ATTN: GEORGE PABLO

GILA RIVER PUBLIC WORKS DEPARTMENT (GRIC DPW)
P.O. BOX 6
SACATON, AZ 85147
PHONE (520) 562-3343
ATTN: ROSS SCHROEDER

GILA RIVER DEPARTMENT OF TRANSPORTATION (GRIC DOT)
P.O. BOX 97
315 W CASA BLANCA ROAD
SACATON, AZ 85147
PHONE (520) 610-6110
ATTN: TIM OLIVER

GILA RIVER INDIAN IRRIGATION & DRAINAGE DISTRICT (GRIIDD)
P.O. BOX 2202
SACTON, AZ 85147
PHONE (520) 562-6720
ATTN: GARY PARKER

GILA RIVER UTILITY AUTHORITY (GRICUA)
P.O. BOX 5091
6640 W. SUNDUST ROAD
CHANDLER, AZ 85226
PHONE (602) 320-7106
ATTN: PAUL BRADSHER

BIA WESTERN REGIONAL OFFICE
DIVISION OF TRANSPORTATION MS-370
2600 N. CENTRAL AVE. 13TH FLOOR MAILROOM
PHOENIX, AZ 85004
PHONE (602) 379-6782
ATTN: ROBERT D. MAXWELL JR
PAUL BONAR

4. ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SPECIFICATIONS AND SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN THE DRAWINGS OR SPECIFICATIONS WILL BE IMMEDIATELY REPORTED TO THE ENGINEER, IN WRITING, WHO WILL CORRECT SUCH INCONSISTENCIES OR AMBIGUITIES IN WRITING. NO WORK WILL BE PERFORMED BY THE CONTRACTOR BEFORE AND AFTER DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES, OR AMBIGUITIES WITHOUT P-MIP AUTHORIZATION. ANY WORK PERFORMED BY THE CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCIES WITHOUT ENGINEER PRIOR AUTHORIZATION WILL BE CONSIDERED TO BE PERFORMED AT THE CONTRACTORS RISK.

5. WHERE A PIPELINE CROSSES AN EXISTING CONDUIT, A MINIMUM CLEAR DISTANCE BETWEEN OUTSIDE OF PIPELINE AND EXISTING CONDUIT OF 1" OUTSIDE SHALL BE PROVIDED UNLESS OTHERWISE SHOWN OR DIRECTED. PIPELINE WHERE CROSSINGS OCCUR SHALL BE ENCASED AS SHOWN ON PLANS.

6. EXCESS OR UNSUITABLE EARTH MATERIAL WILL BE HAULED TO SPOIL AREAS DESIGNATED OR APPROVED BY ENGINEER.

7. ALL COORDINATES SHOWN ON THIS PROJECT ARE GROUND-GRID COORDINATES BASED UPON THE GILA RIVER INDIAN COMMUNITY NETWORK DATUM PROJECTED BY A TANGENT PLANE METHOD ARIZONA COORDINATE SYSTEM, 1983 CENTRAL ZONE. ELEVATIONS ARE ON THE NORTH AMERICAN VERTICAL DATUM OF 1929 (NAVD29).

8. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR EXISTING OVERHEAD AND UNDERGROUND UTILITIES.

9. REMOVALS: EXISTING IRRIGATION STRUCTURES AND OTHER FACILITIES SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED TO A P-MIP APPROVED DISPOSAL SITE, ANY COST THEREOF SHALL BE PAID BY THE CONTRACTOR.

10. SALVAGEABLE EQUIPMENT: THE CONTRACTOR SHALL NOT DAMAGE GATES OR OTHER EQUIPMENT THAT P-MIP DETERMINES TO BE SALVAGEABLE. SALVAGEABLE EQUIPMENT SHALL BE TRANSFERRED TO BIA MAINTENANCE YARD IN SACATON, AZ.

11. MODIFICATIONS TO ADOT STANDARD DETAILS INCLUDE:

i. CONTRACTOR SHALL USE PROJECT SPECIFICATIONS IN LIEU OF ADOT STANDARD CONSTRUCTION SPECIFICATIONS.

ii. CONCRETE FOR ADOT STRUCTURES SHALL BE CLASS A, $f'_c = 3000$ PSI PER SPEC. SEC. 03300 UNLESS OTHERWISE NOTED.

iii. WATERSTOP REQUIRED AT ALL CONSTRUCTION JOINTS UNLESS OTHERWISE NOTED.

iv. EPOXY REBAR REQUIRED AT ALL CONSTRUCTION JOINTS.

12. MODIFICATIONS TO MAG STANDARD DETAILS INCLUDE:

i. CONTRACTOR SHALL USE PROJECT SPECIFICATIONS IN LIEU OF MAG SPECIFICATIONS.

ii. CONCRETE FOR MAG STRUCTURES SHALL BE CLASS A, $f'_c = 3000$ PSI PER SPEC. SEC. 03300 UNLESS OTHERWISE NOTED.

iii. WATERSTOP REQUIRED AT ALL CONSTRUCTION JOINTS.

iv. EPOXY REBAR REQUIRED AT ALL CONSTRUCTION JOINTS.

ADOT AND MARICOPA COUNTY GENERAL NOTES
(MARICOPA COUNTY ROW ONLY)

13. ALL WORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ADOT 2008 EDITION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, MAY 2012 CONSTRUCTION STANDARD DRAWINGS, SIGNING & MARKING STANDARD DRAWINGS AND TRAFFIC SIGNALS & LIGHTING STANDARD DRAWINGS ALONG WITH ALL CURRENT REVISIONS.

14. TRAFFIC SHALL BE PROTECTED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION AND THE ARIZONA SUPPLEMENT MODIFICATIONS DATED JANUARY 13, 2012, AND THE ADOT TRAFFIC CONTROL DESIGN GUIDELINES. ALL SIGNS, PLACEMENT OF SIGNS, THE NECESSITY OF FLAG PERSONS AND UNIFORMED OFFICERS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

15. THE INFORMATION ON THESE DRAWINGS SHOWING THE TYPE, SIZE AND LOCATION OF EXISTING UTILITIES IS BASED ON THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTH OF ALL UNDERGROUND FACILITIES.

16. ALL RIGHT OF WAY MARKERS, DISTURBED, DESTROYED OR REMOVED SHALL BE REPLACED BY AN R.L.S. PER CONSTRUCTION STANDARD DRAWING C-21.10. MONUMENTS THAT ARE RE-ESTABLISHED SHALL BE RECORDED AT THE APPROPRIATE COUNTY RECORDER'S OFFICE, AND A COPY OF THE CORNER RECORDATION DOCUMENTATION SHALL BE SUBMITTED TO THE ENGINEER AND ADOT R/W PLANS SECTION WITHIN FIVE WORKING DAYS OF RECORDATION.

17. ALL WORK NOT IN CONFORMANCE WITH THESE PLANS AND ADOT SPECIFICATIONS SHALL BE REMOVED AT THE CONTRACTORS EXPENSE.

18. ALL DISTURBED AREA SHALL BE SEEDED PER ADOT SPECIFICATIONS.

19. ADOT MAY MAKE PERIODIC SITE INSPECTIONS AND RESERVES THE RIGHT TO REVISE THE LOCATION OF SEDIMENT TRAPPING DEVICES AND THE TYPES OF STRUCTURAL CONTROLS AS THE FIELD CONDITIONS DICTATE. THE CONTRACTOR AGREES TO IMPLEMENT ANY SUCH REVISIONS AT ADOT REQUEST.

PROJECT BENCHMARKS

PROJECT LOCATION	ID	NORTHING	EASTING	ELEVATION
BEGINNING	GPS 005	836858.8049	615918.6991	1013.469
BEGINNING	RELLA	849783.1309	622833.3013	1053.105
MIDDLE	GPS 003	851021.2037	600735.5587	997.075
MIDDLE	GPS 004	849127.2747	617685.1691	1022.039
END	GPS 002	859658.0169	607167.2128	998.308
MC-1	30129	843876.93	621565.63	
MC-2-1N	30066	851809.91	608528.68	
MC-2-2N	30033	849180.77	612481.93	
MC-2-2N	30067	851817.14	611170.61	
MC-2-1S	30030	845217.50	612464.29	
MC-3	30002	854448.10	605892.59	
MC-3-1N	30045	855779.67	612504.59	
MC-3-1N	30051	854456.76	611179.19	
MC-3-2N	30057	857094.08	609866.12	
MC-3-3N	30053	855771.75	608540.33	
WS-1E	30035	862358.03	605919.21	
WS-1E	30074	854424.15	615511.96	
WS-1F	30026	843880.97	618929.47	

LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CANAL CENTER LINE		CONCRETE IRRIGATION DITCH		PIPE ACCESS STR.
	PIPE CENTER LINE		PROJECT DRAINAGE DITCH		SURVEY CONTROL POINT
	LIMITS OF WORK AREA		BURIED GAS LINE		BENCH MARK
	OUTLET HEADWALL		BURIED PETROLEUM LINE		SET 1/2" DEFORMED IRON ROD
	VAULT		BURIED WATER LINE		SET 5/8" DEFORMED IRON ROD
	FLOWMETER W/ MANHOLE		EXIST. LATERAL RETENTION BASIN		MANHOLE
	IRRIGATION PIPE		OVERHEAD POWER LINE (SEE OSHA SPEC. FOR EQUIPMENT CLEARANCE)		CANAL CFS, PIPE CFS
	DRAINAGE PIPE		BURIED TELEPHONE LINE		WELL INTO CANAL
	FLUME		BURIED CABLE		BOOSTER PUMP
	VALVE		PIPELINE METER OR VALVE		DRAIN INTO CANAL
	ROAD CONNECTION		IRRIGATION WELL		SUPERVISORY CONTROL
	WATER VALVE		WATER TANK		SUMP PUMP
	DRAINAGE OVER CHUTE		TELEPHONE RISER OR BOX		OPERATING WATER SURFACE (W.S.)
	UNDER CROSSING		4" AGGREGATE BASE COURSE		EXIST. GRADE
	OVER CROSSING		DENOTES EXISTING FACILITY TO BE RELOCATED BY THE CONTRACTOR		CONCRETE SPILLWAYS INTO CANAL
	LATERAL CANAL TURNOUT		DENOTES EXISTING FACILITY TO BE RELOCATED BY OTHERS		EARTH SPILLWAYS & WASHES INTO CANAL
	FARM TURNOUT		DENOTES EXISTING FACILITY TO REMAIN UNDISTURBED		EXISTING IRRIGATION WELL
	SPILLWAY		DENOTES EXISTING FACILITY TO BE REMOVED BY THE CONTRACTOR		BORING & POTHOLE LOCATION & NUMBER
	SECTION CORNER		DETAIL NUMBER REFER TO DRAWINGS WHERE DETAIL IS SHOWN		TEST PIT LOCATION AND NUMBER
	BARBED WIRE FENCE		DETAIL SHOWN ON SAME SHEET		PERMANENT CREST
	CHAIN-LINK FENCE		SECTION MARK REFER TO DRAWINGS WHERE SECTION IS SHOWN		FLOOD CONTROL SPILLWAY
	WOOD FENCE		SIGN		MILE POST MARKER
	CHAIN-LINK FENCE (ON P.I.E.)		UTILITY POLE W/GUY ANCHOR		TOP OF CONC. LINING
	BARBED WIRE FENCE (ON P.I.E.)		UTILITY POLE		CANAL INVERT
	BURIED POWER		RIGHT-OF-WAY, EXISTING		STORM SEWER
	SANTAN INDUSTRIAL PARK OUTLINE		CUT LINE		BRASS CAP/SURVEY MARKER
	NATURAL GAS		FILL LINE		TEMPORARY BENCH MARK
	IRRIGATION				SPOT ELEVATION
	RAILROAD				SHRUBBERY
	PERMANENT IRRIGATION EASEMENT (P.I.E.)				TREE
	TEMPORARY CONSTRUCTION EASEMENT (T.C.E.)				ALLOTMENT & GRIC BOUNDARY LINE - P & P SHEETS
	STATION MARKS				GRADE
	ALLOTMENT NUMBERS				BURIED FIBER OPTICS LINE
	FIRE HYDRANT				

ABBREVIATIONS

A - AREA OF FLOW (FT²)
AB - AGGREGATE BASE
AASHTO - AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ADOT - ARIZONA DEPARTMENT OF TRANSPORTATION
ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE
ASTM - AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWWA - AMERICAN WATER WORKS ASSOCIATION
CCP - CONCRETE CYLINDER PIPE
CFS - CUBIC FEET PER SECOND
CHEM. - CHEMICAL
CL - CENTERLINE
CM - CONSTRUCTION MANAGER
CONC. - CONCRETE
CMP - CORRUGATED METAL PIPE
CSK. - COUNTER SINK
Ø, DIA. - DIAMETER OF PIPE (INCHES)
DOT - DEPARTMENT OF TRANSPORTATION
D/S, DS. - DOWN STREAM
DWG. - DRAWING
E - EASTING
EL, ELEV - ELEVATION
EOS - EMERGENCY OVERFLOW STRUCTURE
E.P.N.G. - EL PASO NATURAL GAS
ER - EDGE OF ROAD
EXIST. - EXISTING
FL - FLOWLINE
FRP - FIBERGLASS REINFORCED PLASTIC
FT. - FEET, FOOT
GALV. - GALVANIZED
G.B.;GB - GRADE BREAK
G.F. - GEOTEXTILE FILTER FABRIC
GLO - GOVERNMENT LAND OFFICE
GRIC - GILA RIVER INDIAN COMMUNITY
HD. - HEAD
HORZ. - HORIZONTAL

I.D. - INSIDE DIAMETER
IN. - INCH
INV. - INVERT
KM - KINDER MORGAN
LT. - LEFT
MACH. - MACHINE
MAG - MARICOPA ASSOCIATION OF GOVERNMENTS
MCDOT - MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION
MAX. - MAXIMUM
MIN. - MINIMUM
N - NORTHING
N.I.C. - NOT IN CONTRACT
NOM. - NOMINAL
O&M - OPERATIONS & MAINTENANCE
O.C. - ON CENTER
O.D. - OUTSIDE DIAMETER
O.C.E.W. - ON CENTER EACH WAY
OH. - OVERHEAD
OSHA - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PGL - PROFILE GRADE LINE
PI - POINT OF INTERSECTION
P.I.E.;PIE - PERMANENT IRRIGATION EASEMENT
P-MIP - PIMA - MARICOPA IRRIGATION PROJECT
POB - POINT OF BEGINNING
POE - POINT OF ENDING
PROJ. - PROJECTION
PSI - POUNDS PER SQUARE INCH
PT - POINT
PVC - POLYVINYL CHLORIDE
Q - FLOW (FT³/SEC.)
r, R - RADIUS
RBC - REINFORCED BOX CULVERT
RCP - REINFORCED CONCRETE PIPE
RCPP - REINFORCED CONCRETE PRESSURE PIPE

REF. - REFERENCE
REQ'D - REQUIRED
R.O.W. - RIGHT OF WAY
RT. - RIGHT
RWCD - ROOSEVELT WATER CONSERVATION DISTRICT
S - PIPE/CHANNEL SLOPE (FT/FT)
SCIIP - SAN CARLOS INDIAN IRRIGATION DISTRICT
SCH. - SCHEDULE
SL - SPRING LINE
SS, SSTL. - STAINLESS STEEL
SSD - STOPPING SIGHT DISTANCE
SHT. - SHEET
SPECS. - SPECIFICATIONS
SR - STATE ROUTE
STA. - STATION
STD. - STANDARD
SWWR - STRUCTURAL WELDED WIRE REINFORCEMENT
TBM - TEMPORARY BENCH MARK
T.C.E.;TCE - TEMPORARY CONSTRUCTION EASEMENT
TEL - TELEPHONE
TO; T.O. - TURNOUT
TRANSV. - TRANSVERSE
TVSS - TRANSIT VOLTAGE SURGE SUPPRESSION
TYP. - TYPICAL
UG. - UNDERGROUND
UHMW - ULTRA HIGH MOLECULAR WEIGHT
UPRR - UNION PACIFIC RAILROAD
U/S OR U.S. - UPSTREAM
U.S.B.R. - U.S. BUREAU OF RECLAMATION
V - VELOCITY (FT/SEC)
VERT. - VERTICAL
W - WIDTH (UNLESS OTHERWISE NOTED)
W.S. - WATER SURFACE
WSEL - WATER SURFACE ELEVATION

Job No.	647979	Designed	MFM	Drawn	JD	Checked	JZ	Reviewed	JZ	Approved	JZ	Reg. No.	25118	Plot Date	12-18-14	Rev		Date		Description	By			
60% SUBMITTAL NOT FOR CONSTRUCTION																	PREPARED BY: PARSONS 222 SOUTH MILL AVENUE SUITE #220 TEMPE, ARIZONA 85281 (602)952-9195 (602)952-9303 fax							
PIMA MARICOPA IRRIGATION PROJECT																	REACHES WS-1E AND WS-1F				LEGEND, GENERAL NOTES AND ABBREVIATIONS			
DRAWING NAME																	G-5.0							

PIPE SCHEDULE FOR 18” THROUGH 54” I.D. PIPE

PIPE TYPE	SPECIFICATION	MAXIMUM DESIGN WORKING PRESSURE PSI	SURGE PRESSURE PSI	EXTERNAL LOAD	
				MAX. FILL HEIGHT FT	LIVE LOAD
FIBERGLASS PRESSURE PIPE (CCFRPMP)	15073	30	TBD	15	HS-20
POLYETHYLENE (PE) PRESSURE PIPE (HDPE)	15065	30	TBD	15	HS-20

NOTES:

1. THE DESIGN OF ALL PIPE SHALL BE PROVIDED BY THE MANUFACTURER AND SHALL BE CERTIFIED BY AN ARIZONA REGISTERED ENGINEER.
2. FILL HEIGHT (EARTH COVER) IS MEASURED FROM FINISHED GRADE TO TOP OF PIPE. TRENCH BACKFILL WEIGHT = 120 PCF.
3. FOR IRRIGATION PIPELINES ONLY FIBERFLASS AND HDPE PIPE TYPES ARE ALLOWED.
4. CCFRPMP IS AWWA C950 FIBERGLASS PRESSURE PIPE.
5. HDPE IS AWWA C906 POLYETHYLENE (PE) PRESSURE PIPE.

PIPE SCHEDULE FOR 12” I.D. DRAINAGE PIPE

PIPE TYPE	SPECIFICATION	MAXIMUM DESIGN WORKING PRESSURE PSI	SURGE PRESSURE PSI	EXTERNAL LOAD	
				MAX. FILL HEIGHT FT	LIVE LOAD
RCP (C-76)	15075	30	—	20	HS-20

NOTES:

1. THE DESIGN OF ALL PIPE SHALL BE PROVIDED BY THE MANUFACTURER AND SHALL BE CERTIFIED BY AN ARIZONA REGISTERED ENGINEER.
2. FILL HEIGHT (EARTH COVER) IS MEASURED FROM FINISHED GRADE TO TOP OF PIPE. TRENCH BACKFILL WEIGHT = 120 PCF.
3. C76 PIPE REQUIRED FOR DRAINAGE PIPE AND OTHER APPLICATIONS AS SHOWN IN THE DRAWINGS.
4. RCP IS ASTM C-76 PIPE REQUIRING CLASS IV PIPE (FOR DRAINAGE ONLY)

PIPE ABBREVIATIONS

CCFRPMP – CENTRIFUGALLY CAST FIBERGLASS REINFORCED POLYMER MORTAR PIPE

HDPE – HIGH DENSITY POLYETHYLENE PIPE

RCP(C-76) – REINFORCED CONCRETE PIPE (DRAINAGE ONLY)

REACHES WS-1E AND WS-1F

PIPE ALTERNATIVES SCHEDULE

DRAWING NAME
G-6.0



PIMA
MARICOPA
IRRIGATION
PROJECT
P.O. BOX C
ROUTE A STREET
SACATON, AZ 85147
(520)562-6700
(520)562-6791 FAX



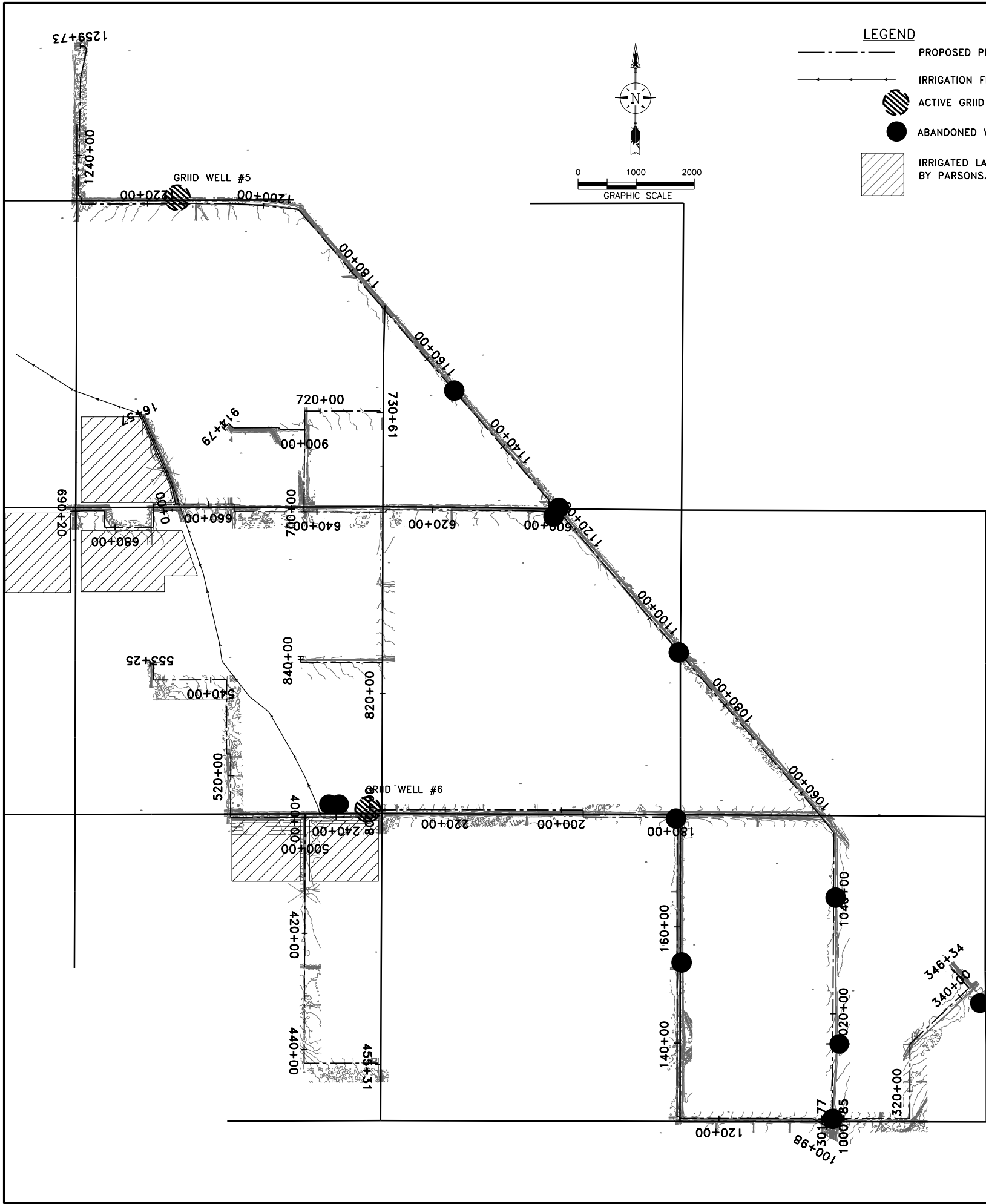
GILA RIVER
INDIAN COMMUNITY
ARIZONA
1938

PREPARED BY:
PARSONS
222 SOUTH MILL AVENUE
SUITE #220
TEMPE, ARIZONA 85281
(602)952-9195
(602)952-9303 fax

60% SUBMITTAL
NOT FOR
CONSTRUCTION

Job No. 647979
Designed MFM
Drawn JD
Checked JZ
Reviewed JZ
Approved JZ
Reg. No. 25118
Plot Date 12-18-14

Rev
Date
Description
By



LEGEND

- PROPOSED PIPE ALIGNMENT
- > IRRIGATION FLOW DIRECTIONS (LATERALS)
- ACTIVE GRID WELL
- ABANDONED WELL
- ▨ IRRIGATED LAND DETERMINED FROM FIELD INSPECTION BY PARSONS. AERIAL PHOTOS ALSO UTILIZED.

TABLE TO BE COMPLETED AT 90%

EXISTING WELLS	REQUIRED STATUS	FLOW RATE (CFS)	FLOW RATE (GPM)	SERVICE AREA
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

REACHES WS-1E AND WS-1F

TEMPORARY IRRIGATION WATER SUPPLY

DRAWING NAME

G-7.0

Job No. 647979

Designed MFM

Drawn JD

Checked JZ

Reviewed JZ

Approved JZ

Reg. No. 25118

Plot Date 12-18-14

60% SUBMITTAL

NOT FOR

CONSTRUCTION

PREPARED BY:

PARSONS

222 SOUTH MILL AVENUE

SUITE #220

TEMPE, ARIZONA 85281

(602)952-9195

(602)952-9303 fax

PIMA

MARICOPA

IRRIGATION

PROJECT

P.O. BOX C

ROUTE A STREET

SACATON, AZ 85147

(520)562-6700

(520)562-6791 FAX

ARIZONA

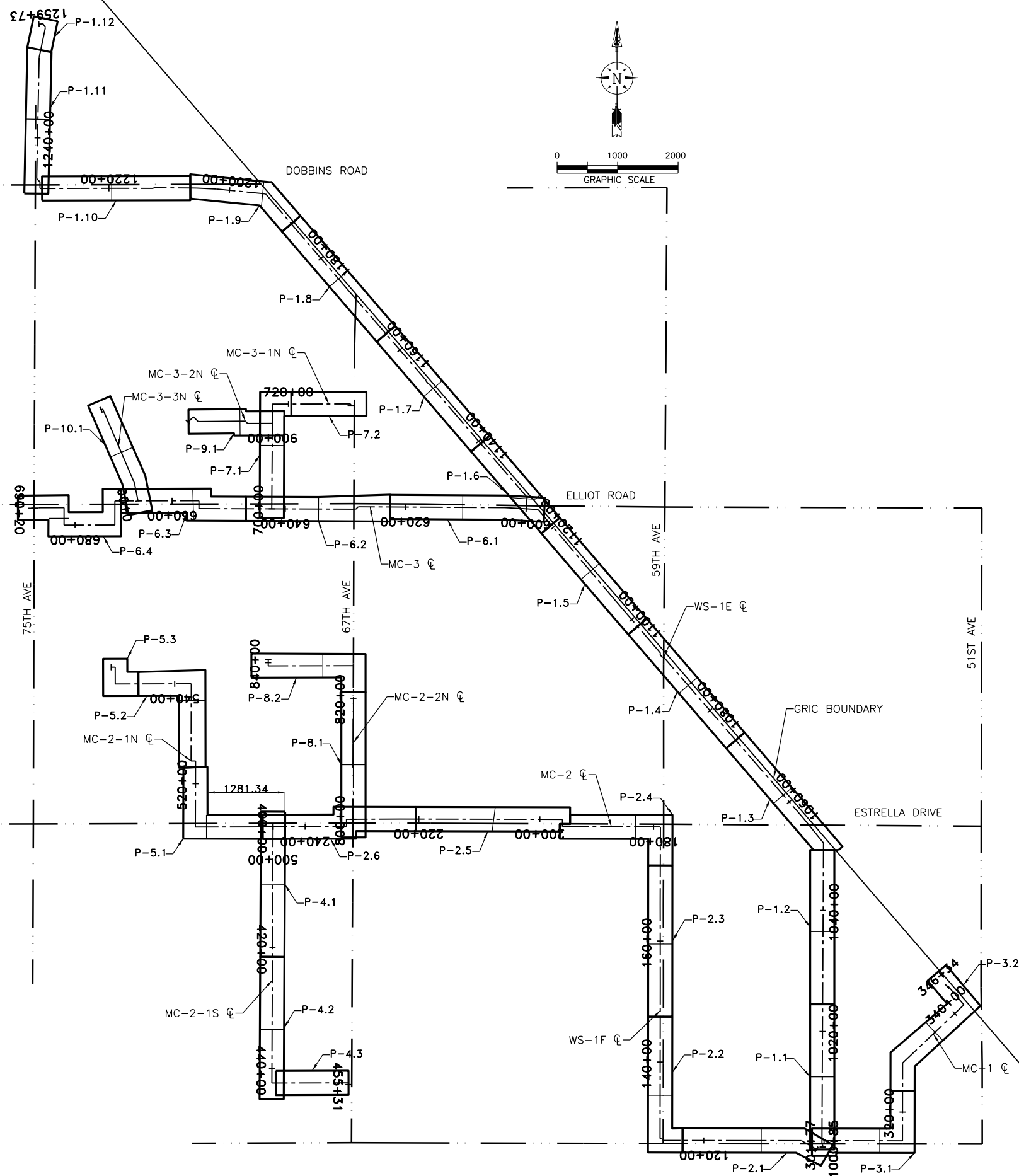
1909

INDIAN COMMUNITY

By

Date

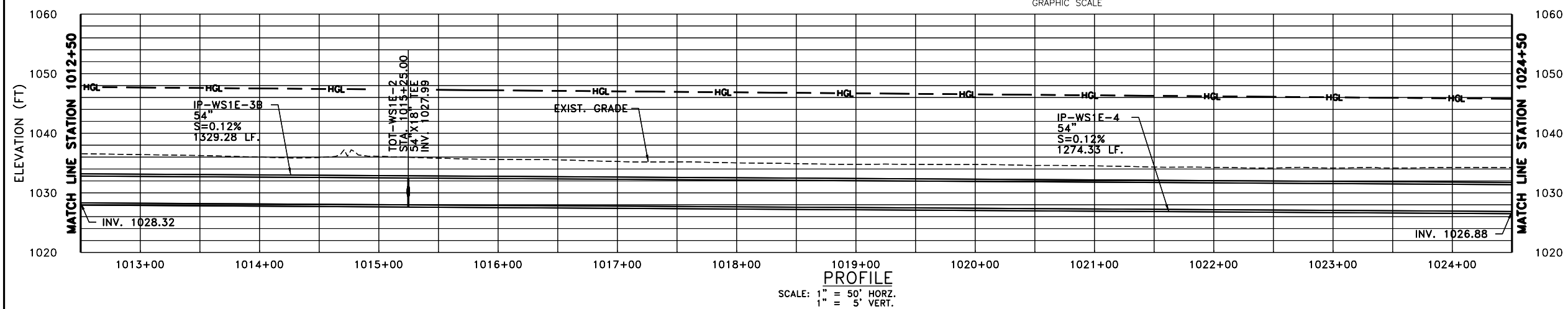
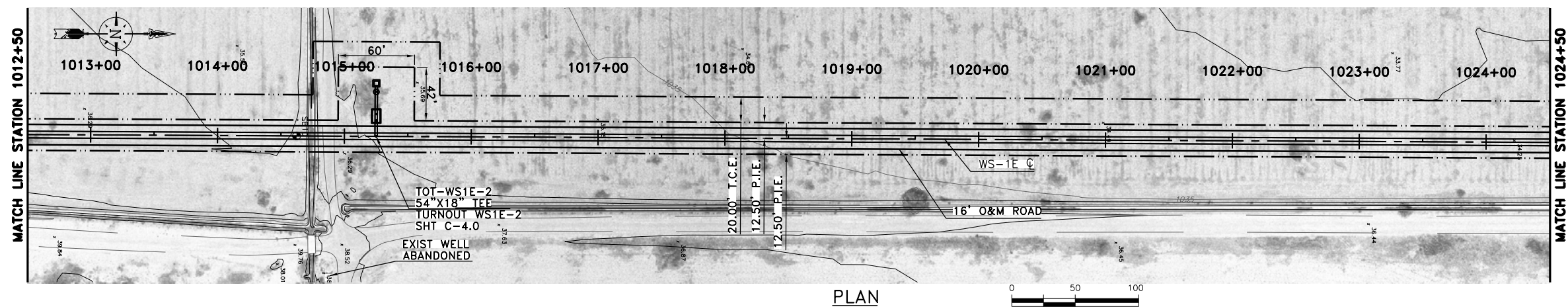
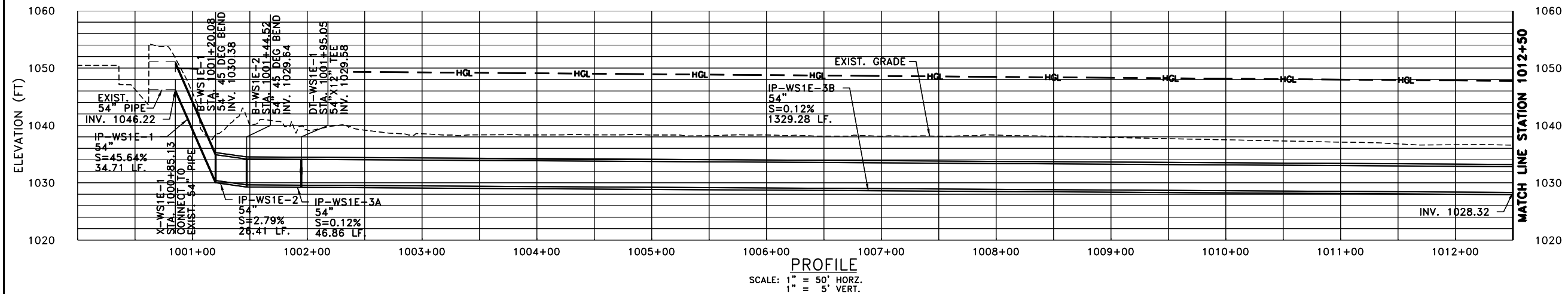
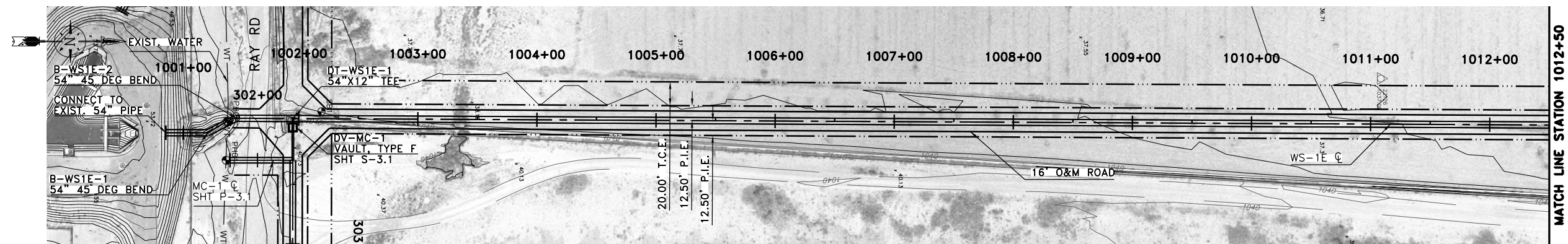
Rev



A horizontal scale bar with three segments. The first segment is labeled '0' at its left end. The second segment is labeled '1000' at its right end. The third segment is labeled '2000' at its right end. The segments are separated by vertical tick marks. The bar is labeled 'GRAPHIC SCALE' below it.

PIPE AND STRUCTURE ID KEY			
	[ID]	— [ALIGNMENT]	— [STRUCTURE #]
EX.	IP	— WSE	— 1
	<u>ID</u>		<u>TYPE</u>
IP	IRRIGATION PIPE		
TP	TURNOUT PIPE		
BP	BASIN PIPE		
DP	DRAIN PIPE		
W	WELL IRRIGATION PIPE		
X	EXISTING PIPE		
B	FLAP GATE		
FM	FLOW METER		
J	JUNCTION (IRRIGATION SYSTEM)		
KG	KNIFE GATE		
PV	PLUG VALVE		
BFV	BUTTERFLY VALVE		
V	VAULT		
TOB	TURNOUT BEND		
TOFM	TURNOUT FLOW METER		
TOKG	TURNOUT KNIFE GATE		
TOPV	TURNOUT PLUG VALVE		
TOV	TURNOUT VAULT		
TOHW	TURNOUT OUTLET STRUCTURE		
TOT	TURNOUT TEE		
BB	BASIN BEND		
BHW	BASIN OUTLET STRUCTURE		
BV	BASIN VAULT		
BGV	BASIN GATE VALVE		
BT	BASIN TEE		
DGV	DRAIN GATE VALVE		
DFV	DRAIN FLAP GATE		
DT	DRAIN TEE		
DV	DRAIN VAULT		
DHW	DRAIN OUTLET STRUCTURE		

REACHES WS-1E AND WS-1F		PIMA MARICOPA IRRIGATION PROJECT P.O. BOX 5 192-A SOUTH ROUTE A STREET SACATON, AZ 85147 (520)562-6700 (520)562-6791 FAX			PREPARED BY: PARSONS 222 SOUTH MILL AVENUE SUITE #220 TEMPE, ARIZONA 85281 (602)852-9195 (602)952-9303 fax	60% SUBMITTAL NOT FOR CONSTRUCTION	Job No. 647979				By
							Designed MFM	Drawn JD	Checked JZ	Reviewed JZ	
DRAWING NAME P-1.0											



DRAWING NAME P-1.1	REACHES WS-1E AND WS-1F	PIMA MARICOPA IRRIGATION PROJECT P.O. BOX C SAGUARO ROUTE 4 STREET SACATON, AZ 85147 (520)562-6700 (520)562-6791 FAX  PARSONS 222 SOUTH WILL AVENUE SUITE #220 TEMPE, ARIZONA 85281 (602)952-9195 (602)952-9303 fax	PREPARED BY: 60% SUBMITTAL NOT FOR CONSTRUCTION	Job No.	647979					
				Designed	MFM					
	Drawn			JD						
	Checked			JZ						
	Reviewed			JZ						
	Approved			JZ						
	Reg. No.			25118						
	Plot Date			12-18-14						By