



0000137028

ORIGINAL JOHNSON UTILITIES COMPANY, L.L.C.

5230 East Shea Boulevard * Scottsdale, Arizona 85254
PH: (480) 998-3300; FAX: (480) 483-7908

21 May 2012

Robert G. Gray
Executive Consultant III
Utilities Division
Arizona Corporation Commission
1200 W Washington Street
Phoenix, AZ 85007-2927

Arizona Corporation Commission
DOCKETED

MAY 23 2012

DOCKETED BY *TSM*

RECEIVED
2012 MAY 23 P 2:31
AZ CORP COMMISSION
DOCKET CONTROL

Re: **INSUFFICIENCY RESPONSE: JOHNSON UTILITIES, L.L.C. APPLICATION FOR APPROVAL OF AN EXTENSION OF ITS CERTIFICATE OF CONVENIENCE AND NECESSITY (DOCKET NO. WS-02987A-12-0136)**

Dear Mr. Gray:

Included is the requested information needed to meet the insufficiency requirements per your request of May 7, 2012.

Water Division

1. Please submit a drinking water design report with sufficient details to identify existing and future sources, the capacities of existing sources, the estimated capacities of future sources and any existing demand on the present water sources.

The report should identify the location of future and existing transmission mains and include the timing or construction phasing of facilities.

BELLA VISTA FARMS NORTH: There is currently an 8" water line in Bella Vista Road, which is at the southern property border. This line will be increased to a 12" line by the developer at each phase of the development. The onsite water infrastructure will be built with the project. The Central Arizona College will be served by our existing water tank and well capacity. Once the residential developments move forward then we will build an additional million gallon storage tank and three wells to supply water to the tank and then to the development.

MERRILL RANCH EXPANSION #1: This is area will be connected to the existing Anthem at Merrill Ranch water system to supply water for the initial phases. At build out we will build an additional million gallon storage tank and three wells to supply water to the tank and then to the development.

2. Please provide a set of design plans for the proposed water facilities. If final plans are not available, preliminary design plans should be provided.

Please see Attachment 1 (Plans for Central Arizona College Campus); no others are yet available.

3. Please provide a copy of the ADEQ's Approval to Construct the water facility to serve the proposed CC & N area. If the Approval to construct has not been issued, please inform Staff of the status of the application for the Approval to Construct.

Central Arizona College has not yet submitted their plans to ADEQ for the Approval to Construct; however, they are planning to submit within the next 60 days. The College plans to start construction sometime in July or August of 2012. The other developers are planning to move forward with engineering once the Arizona Corporation Commission has issued the CC&N for area. They plan to start construction a year after the CC&N is approved by the ACC.

Wastewater Division

1. Please submit a master wastewater design report with sufficient details to identify the location of existing and future wastewater treatment plants and major wastewater interceptors. It should also provide the capacities of existing and future wastewater treatment plants, any existing service base in the proposed CC&N, service connections at build out in the proposed CC&N, estimated wastewater flow from a typical dwelling unit.

The report should also include the timing or construction phasing of facilities and methods of effluent disposal.

BELLA VISTA FARMS NORTH: Bella Vista Farms North is already within our certificated area.

MERRILL RANCH EXPANSION #1: This expansion is adjacent to our existing wastewater system. The developer will install gravity main to our existing gravity system which feeds into Johnson Utilities' Anthem at Merrill Ranch wastewater system.

2. Please provide a set of design plans for the proposed wastewater facilities. If final plans are not available, preliminary design plans should be provided.

Please see Attachment 1 (Plans for Central Arizona College); as noted above this area is already in Johnson Utilities' existing wastewater CC&N. The college is planning to start construction sometime in July or August of 2012. The other developers plan to start construction a year after the CC&N is approved.

General Questions

1. The initial filing references a request for service from Pantano Development that will be provided at a later date. The April 18, 2012 supplement contains a request for service from the Pinal County Community College District, but not from Pantano Development. Please explain this.

Johnson Utilities has not yet received a request for service from Pantano Development. The request to include their property will be removed if the request has not been received by the time staff's report is completed. Also, please see Attachment 2, which is a request from Pulte.

2. Provide a description of each assumption made to derive the estimates of the annual operating revenues and expenses for the first five years of operation for the requested extension areas, expressed separately for residential, commercial, industrial, and irrigation services.

Our assumptions are made using rates in the existing tariff as follows:

WATER

Residential: 3/4" meter at \$16.50 base, with usage calculated at an average of \$1.95 per 1,000 gallons. Expenses were calculated at 80% of revenue.

Commercial: 2" meter at \$88 base, with usage calculated at an average of \$2.14 per 1,000 gallons. Expenses were calculated at 80% of revenue.

Irrigation: 2" meter at \$88 base, with usage calculated at an average of \$2.14 per 1,000 gallons. Expenses were calculated at 80% of revenue.

WASTEWATER

Residential: 3/4" meter at \$39.35 base per 1,000 gallons. Expenses were calculated at 80% of revenue.

Commercial: 2" meter at \$103.73 base per 1,000 gallons. Expenses were calculated at 80% of revenue.

3. Provide a map identifying the location of all proposed developments within the requested areas.

The Master Plans for both Bella Vista Farms North and Merrill Ranch developments are attached as Attachment 3.

4. Provide a copy of each notice to be sent, as required under R14-2-402(B)(4), to a municipal manager or administrator.

Please see Attachment 4, which has been mailed to the Town Managers of Queen Creek and Florence.

5. Provide an explanation of Attachment 14 to the initial application.

Attachment 14 of the original application is the franchise agreement with Pinal County that allows Johnson Utilities to operate within the county right of way.

6. Provide a description of how wastewater service is to be provided in the proposed service area or extension area and the name of each wastewater service provider for the area, if any.

The Bella Vista Farms North portion is already in our certificated area for wastewater, and the Anthem portion will be connected with the already existing Anthem at Merrill Ranch wastewater line.

7. Provide a letter from each wastewater service provider identified under subsection R14-2-402(B)(5)(aa), confirming the provision of wastewater service for the proposed service area or extension area.

The service provider will be Johnson Utilities, L.L.C.

8. Provide plans for or a description of water conservation measures to be implemented in the proposed service area or extension area, including, at a minimum:

- i. A description of the information about water conservation or waster saving measures that the utility will provide to the public and its customers;
- ii. A description of how the applicant will work with each wastewater service provider identified under subsection (B)(5)(aa) to encourage water conversation;
- iii. A description of the sources of water that will be used to supply parks, recreation areas, golf courses, greenbelts, ornamental lakes, and other aesthetic water features;
- iv. A description of any plans for the use of reclaimed water;
- v. A description of any plans for the use of recharge facilities;
- vi. A description of any plans for the use of surface water; and
- vii. A description of any other plans or programs to promote water conservation.

Please see Paragraph X (HH) from the original application.

9. Provide a copy of the Physical Availability Determination, Analysis of Adequate Water Supply, or Analysis of Assured Water Supply issued by the Arizona Department of Water Resources for the proposed service area or extension area or, if not yet obtained, the status of the application for such approval.

Please see Attachment #15 of the original application.

10. Provide a water use data sheet for the water system being extended by the applicant.

Please see Attachment 5

11. Provide an amended written legal description that accurately describes the requested area.

Please see Attachment 6

If you have further questions or concerns, please feel free to contact me at (480) 998-3300.

Sincerely,



Daniel Hodges
JOHNSON UTILITIES COMPANY, L.L.C.

DH:meb

- cc: Docket Control
Del Smith, Engineering Supervisor
Brian Bozzo, Compliance Manager
Lyn Farmer, Chief, Hearing Division
Jeffrey W. Crockett, Brownstein Hyatt Farber Schreck

Attachment 1

Wastewater Discharge Calculations

Description	Phase 1			Full Build-Out		
	Unit	Gal/Day	Total (Gal/Day)	Unit	Gal/Day	Total (Gal/Day)
Admin Staff / Faculty Load	165	20	3,300	1,000	20	20,000
Student Load (FTSE)	1,650	20	33,000	10,000	20	200,000
Cooling Tower (Bleed-Off = 500,000 gal/mo at build-out)	0.165	23,077	3,808	1	23,077	23,077
Irrigation (2.0 ac-ft / yr / 200 acres)		Not Applicable			Not Applicable	
Cafeteria		3		11,000	3	33,000
			40,108			276,077
			46,124			317,489

Design Criteria (GPD*1.15)

Water Demand Calculations at 125% of wastewater gal/day

Description	Phase 1			Full Build-Out		
	Unit	Use (Gal/Day)	Total (Gal/Day)	Unit	Gal/Day	Total (Gal/Day)
Admin Staff / Faculty Load	165	25	4,125	1,000	25	25,000
Student Load (FTSE)	1,650	25	41,250	10,000	25	250,000
Cooling Tower (Bleed-Off = 500,000 gal/mo)	0.165	28,846	4,760	1	28,846	28,846
Irrigation (2.0 ac-ft / yr / 200 acres)	23.6	11	264	200	11	2,238
Cafeteria		4		11,000	4	41,250
			50,399			347,334
			35			241
			3.0			3.0
			105.0			723.6

Convert to Gallons Per Minute

Peaking Factor

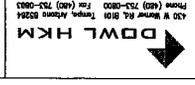
Design Water Use (GPM)

JOHNSON UTILITY, LLC STANDARD WATER NOTES

1. ALL 3 INCH AND SMALLER PRESSURE PVC WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH ANS/AWWA STANDARD C900-15 LATEST REVISION.
2. ALL 4 INCH THROUGH 24 INCH WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH ANS/AWWA STANDARD C900-15 LATEST REVISION.
3. ALL 30 INCH THROUGH 48 INCH WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH ANS/AWWA STANDARD C900-15 LATEST REVISION.
4. ALL 60 INCH THROUGH 84 INCH WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH ANS/AWWA STANDARD C900-15 LATEST REVISION.
5. ALL 48 INCH THROUGH 60 INCH WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH ANS/AWWA STANDARD C900-15 LATEST REVISION.
6. ALL 60 INCH THROUGH 84 INCH WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH ANS/AWWA STANDARD C900-15 LATEST REVISION.
7. ALL 84 INCH THROUGH 108 INCH WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH ANS/AWWA STANDARD C900-15 LATEST REVISION.
8. ALL WATER LINES SHALL BE TESTED AND APPROVED PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND APPROVALS FROM THE LOCAL HEALTH DEPARTMENT AND THE LOCAL WATER UTILITY.
9. ALL WATER LINES SHALL BE TESTED AND APPROVED PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND APPROVALS FROM THE LOCAL HEALTH DEPARTMENT AND THE LOCAL WATER UTILITY.
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JOHNSON UTILITIES ENGINEER'S GENERAL NOTES

1. MARCH 2018 ASSOCIATION OF GOVERNMENTS STANDARDS FOR WATER MAINS SHALL BE USED UNLESS OTHERWISE SPECIFIED IN THESE PLANS.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE ASSOCIATION OF GOVERNMENTS STANDARDS FOR WATER MAINS.
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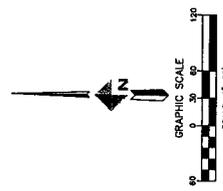


**OVERALL PLAN
 WATER AND SEWER EXTENSION ALONG
 BELLA VISTA ROAD, PINAL CO., AZ**

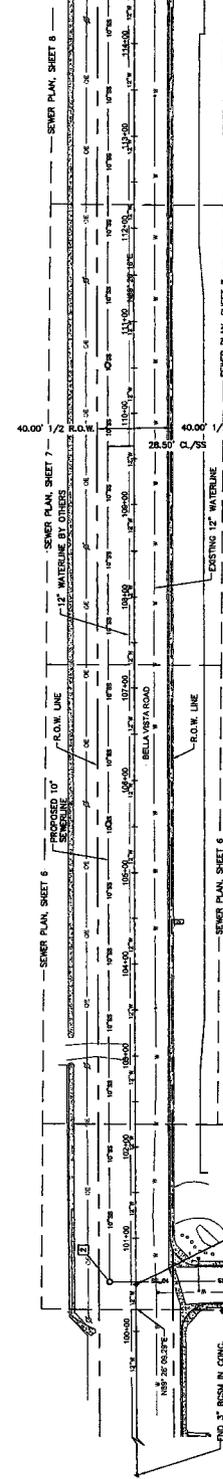
DOWL HKM
 430 N. Central Ave., Suite 1000
 Phoenix, AZ 85004
 Phone (602) 733-0202 Fax (602) 733-0203



CONSTRUCTION DOCUMENTS

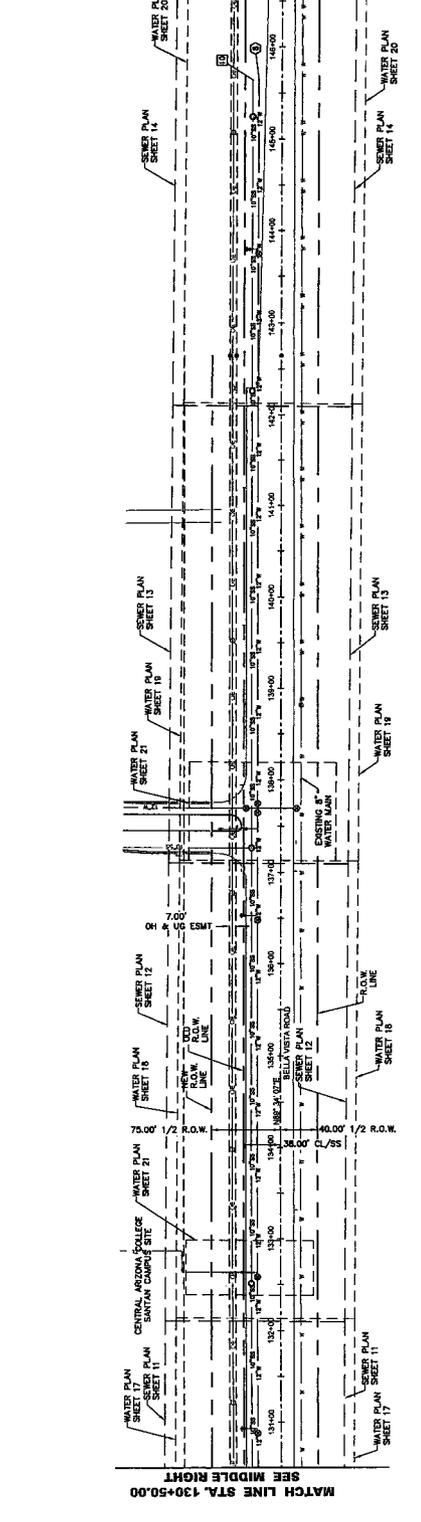
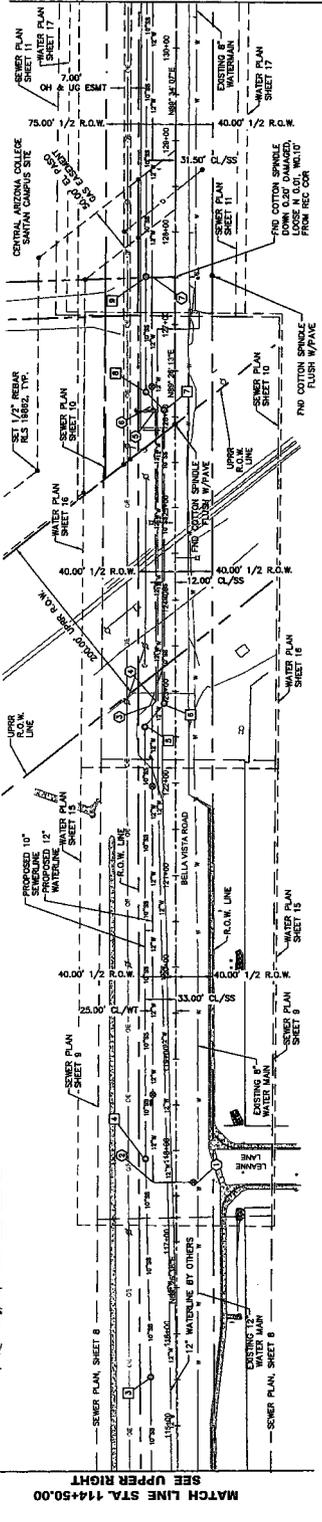


MATCH LINE STA. 114+50.00 SEE MIDDLE LEFT
 MATCH LINE STA. 130+50.00 SEE LOWER LEFT



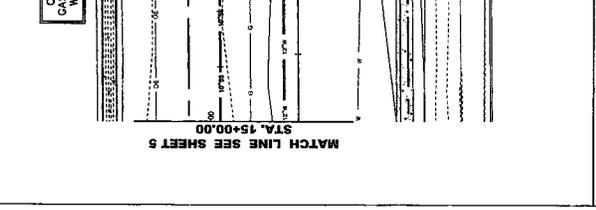
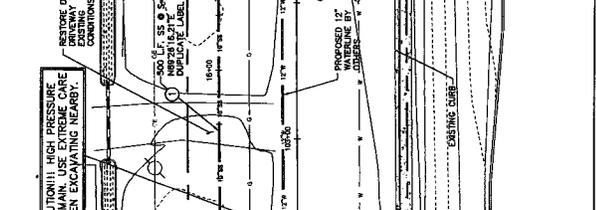
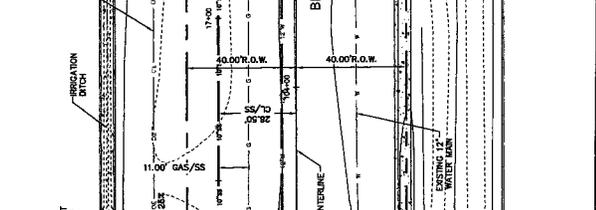
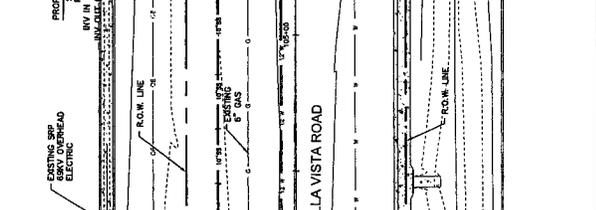
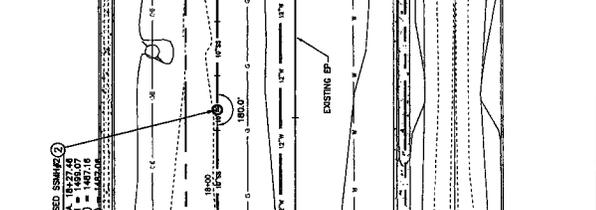
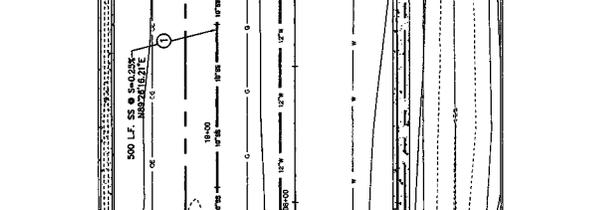
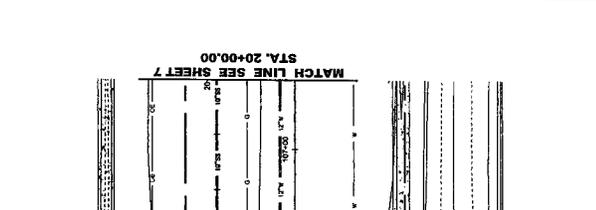
STATION EQUATIONS AT WATERLINE HORIZONTAL CHANGE IN DIRECTION		BELLA VISTA RD STA	
ANGLE POINT	WATER STA	1174+64.86	23.00' R
125°12' TAPPING	60+00.00	1174+64.86	23.00' R
50° BEND	50+48.58	1174+64.86	23.00' L
45° BEND	65+88.68	1224+88.08	25.00' L
45° BEND	65+74.34	1224+88.08	21.00' L
45° BEND	68+83.37	1284+08.10	21.00' L
DEFLECT PIPE	88+88.02	1284+12.10	25.00' L
70+38.11	1274+51.13	25.00' L	
88+51.38	1454+64.38	25.00' L	

STATION EQUATIONS AT SEWERLINE HORIZONTAL CHANGE IN DIRECTION		BELLA VISTA RD STA	
ANGLE POINT	SEWER STA	100+00.00	298.90' R
EXIST SSM# #1	100+00.00	100+00.00	298.90' R
PROP SSM# #1	134+27.48	100+00.00	298.90' L
PROP SSM# #2	284+27.48	115+83.02	28.50' L
PROP SSM# #3	30+83.61	1174+81.13	33.00' L
PROP SSM# #4	35+33.37	1224+80.89	33.00' L
PROP SSM# #5	35+88.65	1224+86.71	12.00' L
PROP SSM# #6	38+88.80	1284+07.87	12.00' L
PROP SSM# #7	39+17.38	1284+27.37	31.50' L
PROP SSM# #8	40+41.21	1274+51.13	31.50' L
STUB	58+54.45	1454+64.38	31.50' L

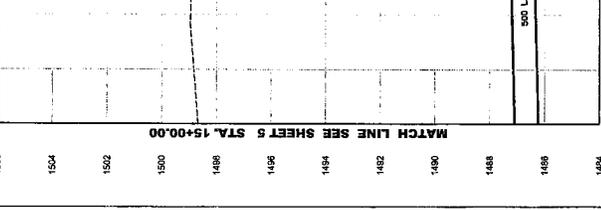
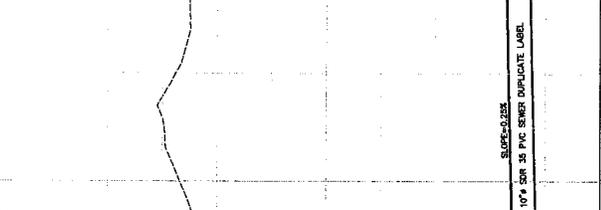
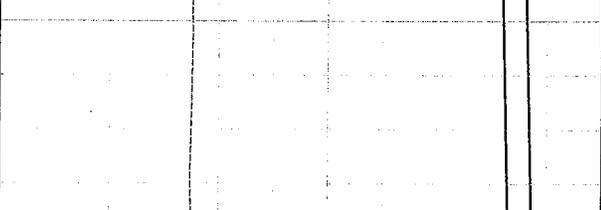
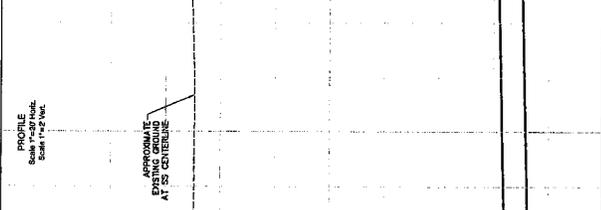
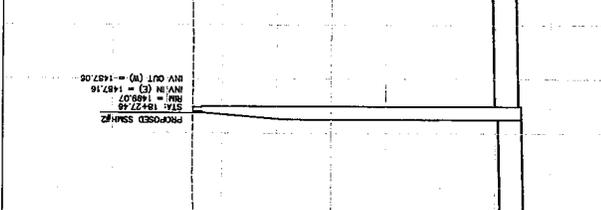
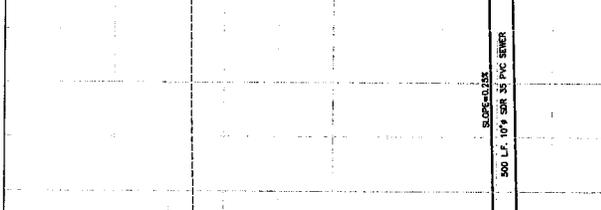
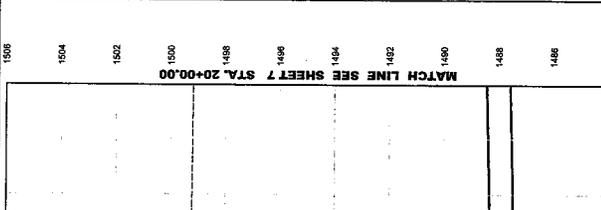




- SEWER CONSTRUCTION NOTES**
1. INSTALL 10" SDR 35 PVC SANITARY SEWER LINE.
 2. CONSTRUCT 9" SANITARY SEWER MANHOLE PER MAG STD. DTL. #20.
 3. CONSTRUCT 18" SANITARY SEWER MANHOLE PER MAG STD. DTL. #20.
 4. PROVIDE "1-100" TRENCH REPAIR AT SEWER LINE TRENCH PER MAG STD. DTL. 200-1.
 5. REPLACE CONCRETE VALLEY GUTTER IN R/W.
 6. REPLACE SIGN AND SIGN POST AND BASE IN R/W.
 7. INSTALL 24" ID STEEL CASING (MINIMUM 10' LONG) THROUGH EXISTING ASPHALT AND REMOVE EXISTING ASPHALT AS SHOWN PER MAG SECTION 602 AND UPPER REQUIREMENTS.
 8. JACK AND BORE PIT DIMENSIONS TO BE ACCORDANCE WITH THE JACKING AND BORE PIT DIMENSIONS IN R/W.
 9. CONNECT TO EXISTING MANHOLE BY BORING THROUGH MANHOLE SIDEWALL. RESHAPE EXISTING MANHOLE TO ACCOMMODATE NEWLY CONNECTED PIPE.
 10. 10" SANITARY SEWER LINE BURY STEEL PIPE 24" BELOW FINISHED GRADE AT CAP FOR LOCKING PURPOSES.



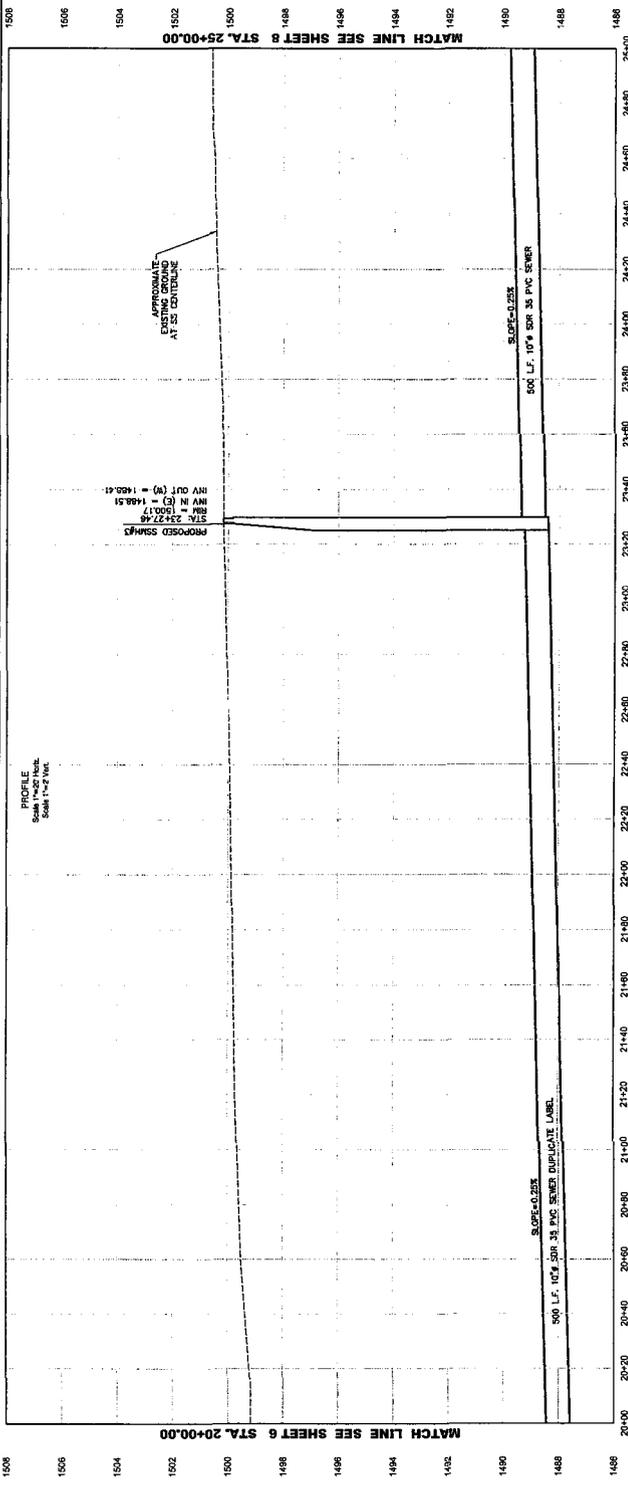
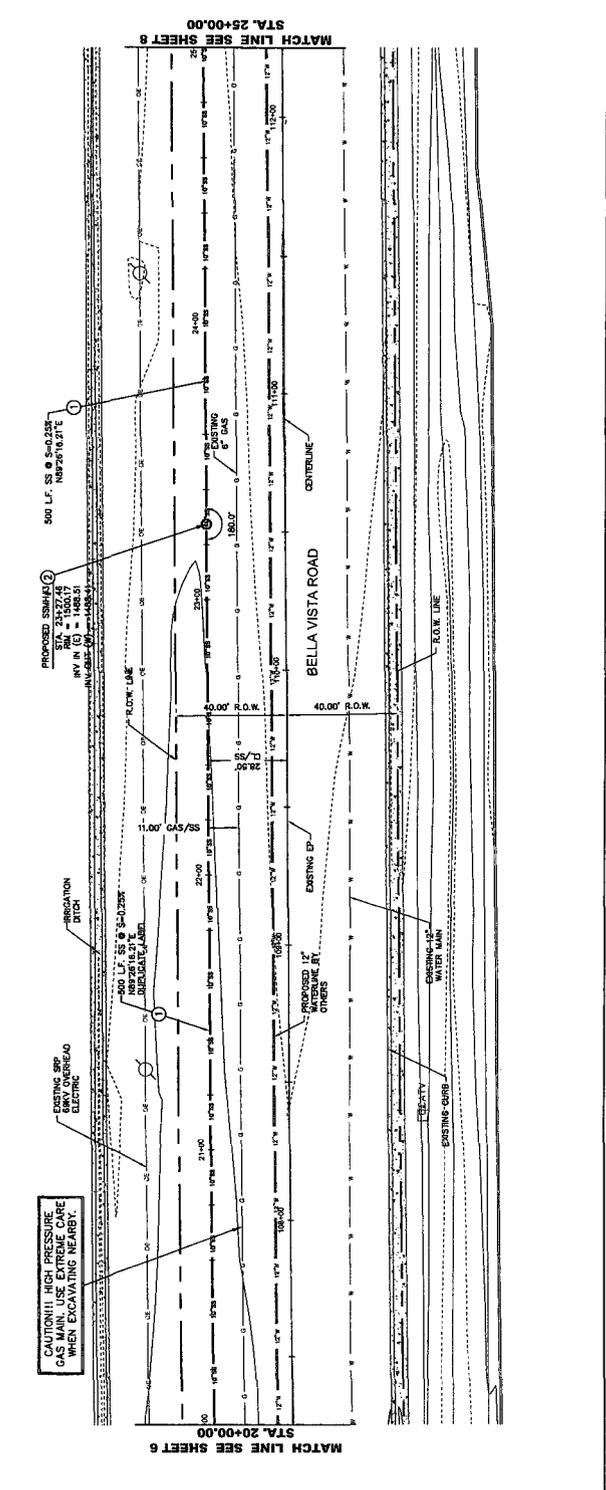
- GENERAL NOTES**
1. SANITARY SEWER DEVICES SHOWN ON THIS SHEET ARE TO BE INSTALLED IN ACCORDANCE TO CENTER OF MANHOLE DISTANCES AS SHOWN. DISTANCES TO CENTER OF MANHOLES WITH "M" INDICATE A LENGTH THAT HAS BEEN CALLED OUT ON A PREVIOUS SHEET.
 2. SANITARY SEWER SLOPES SHOWN ON THIS SHEET ARE CALCULATED FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.
 3. EXISTING UTILITY LOCATIONS ARE BASED ON INFORMATION PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THE VERTICAL LOCATION OF EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES.
 4. THE CONTRACTOR MUST ADHERE TO NEW ARIZONA CONSTRUCTION REQUIREMENTS WITHIN THE R/W EASEMENT.
 5. THE CONTRACTOR MUST ADHERE TO UNIFORM CONSTRUCTION REQUIREMENTS WITHIN R/W EASEMENT.
 6. THE CONTRACTOR MUST ADHERE TO ALL APPLICABLE CONSTRUCTION REQUIREMENTS AND ALL APPLICABLE CONSTRUCTION REQUIREMENTS WITHIN R/W EASEMENT.
 7. MANHOLE FRAMES ARE CENTERED OVER THE PIPE AND DO NOT INDICATE CENTER OF FRAME AND GATE.





- SEWER CONSTRUCTION NOTES**
1. INSTALL 10" SDR 35 PVC SANITARY SEWER LINE.
 2. CONSTRUCT 48" SANITARY SEWER MANHOLE PER MAG STD. DTL. 480.
 3. CONSTRUCT 60" SANITARY SEWER MANHOLE PER MAG STD. DTL. 480.
 4. PROVIDE 7/8" TOP TRENCH REPAIR AT SEWER LINE TRENCH PER MAG STD. DTL. 200-1.
 5. REPLACE CONCRETE VALET OUTER IN ROAD.
 6. INSTALL 4" X 4" STEEL CORNER MANHOLE INVERT PER MAG SPECIFICATION SECTION METHOD PER MAG AND SDR REQUIREMENTS.
 7. USE AND SDR REQUIREMENTS.
 8. USE AND SDR REQUIREMENTS.
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 13. USE AND SDR REQUIREMENTS.
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 15. USE AND SDR REQUIREMENTS.
 16. USE AND SDR REQUIREMENTS.
 17. USE AND SDR REQUIREMENTS.
 18. USE AND SDR REQUIREMENTS.
 19. USE AND SDR REQUIREMENTS.
 20. USE AND SDR REQUIREMENTS.

- GENERAL NOTES**
1. SANITARY SEWER MANHOLES SHOWN ON THIS SHEET ARE FROM CENTER OF MANHOLE TO CENTER OF MANHOLE DISTANCES ARE NOT SHOWN. MANHOLE DISTANCES ARE WITH "TRIPLES" INDICATE A LENGTH THAT HAS BEEN CALLED OUT ON A PRIOR SHEET.
 2. SANITARY SEWER SLOPES SHOWN ON THIS SHEET ARE CALCULATED FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.
 3. BOTH TOPOGRAPHIC SURVEY AND AS-BUILT INFORMATION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 4. THE CONTRACTOR MUST ADHERE TO NEW PERMIT/CONSTRUCTION REQUIREMENTS WITHIN THE RMD JURISDICTION.
 5. THE CONTRACTOR MUST ADHERE TO UNIFORM CONSTRUCTION REQUIREMENTS WITHIN THE RMD JURISDICTION.
 6. THE CONTRACTOR MUST ADHERE TO ALL APPLICABLE CONSTRUCTION REQUIREMENTS WITHIN THE RMD JURISDICTION.
 7. MANHOLE FRAMES SHALL BE CENTERED ON THE PIPE AND DO NOT LOCATE CENTER OF FRAME AND GRATE.



CAUTION!! HIGH PRESSURE GAS MAIN, USE EXTREME CARE WHEN EXCAVATING NEARBY.

PROPOSED 12" WATERLINE BY OTHERS

EXISTING 12" WATER MAIN

EXISTING CURB

EXISTING VALET

PROPOSED 10" GAS BY OTHERS

PROPOSED 10" GAS

500 L.F. 10" SDR 35 PVC SEWER DUPLICATE LABEL

500 L.F. 10" SDR 35 PVC SEWER

APPROXIMATE CENTERLINE AT STA. 23+00.00

PROPOSED SSM#2

INVERT (E) = 1468.51

BLK. 1468.17

INVERT (E) = 1468.41

PROFILE

500 L.F. 10" SDR 35 PVC SEWER

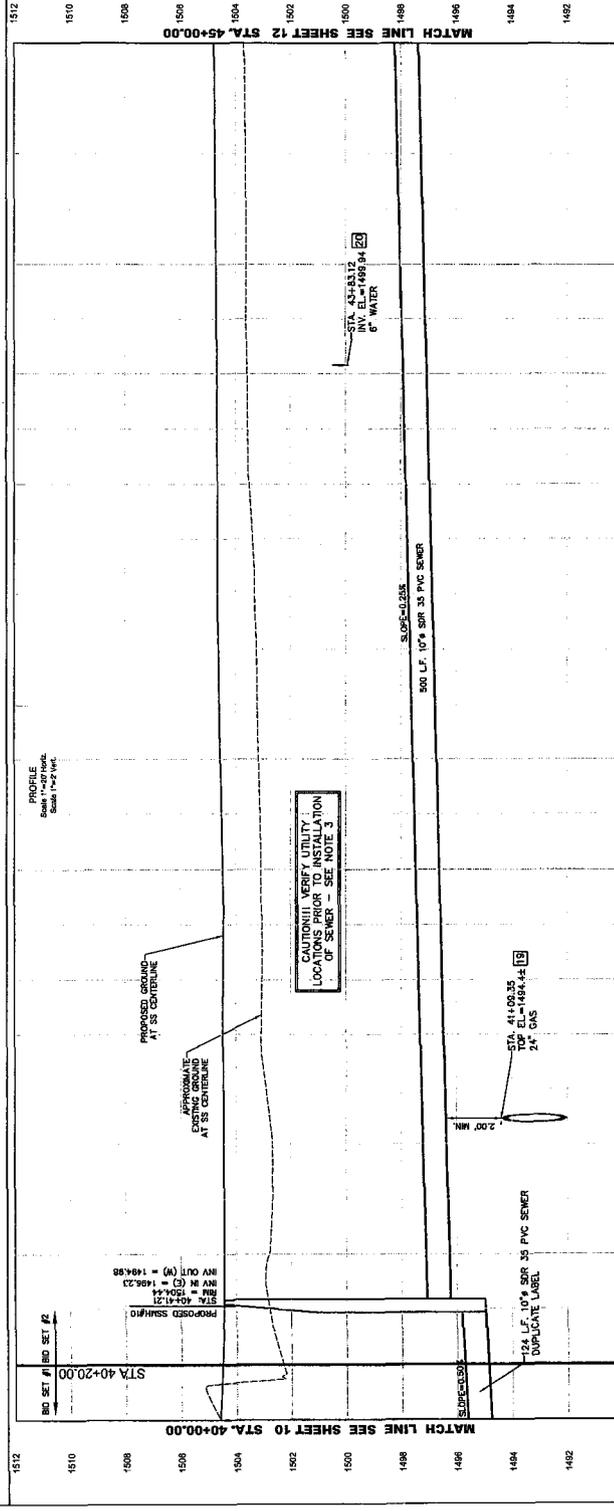
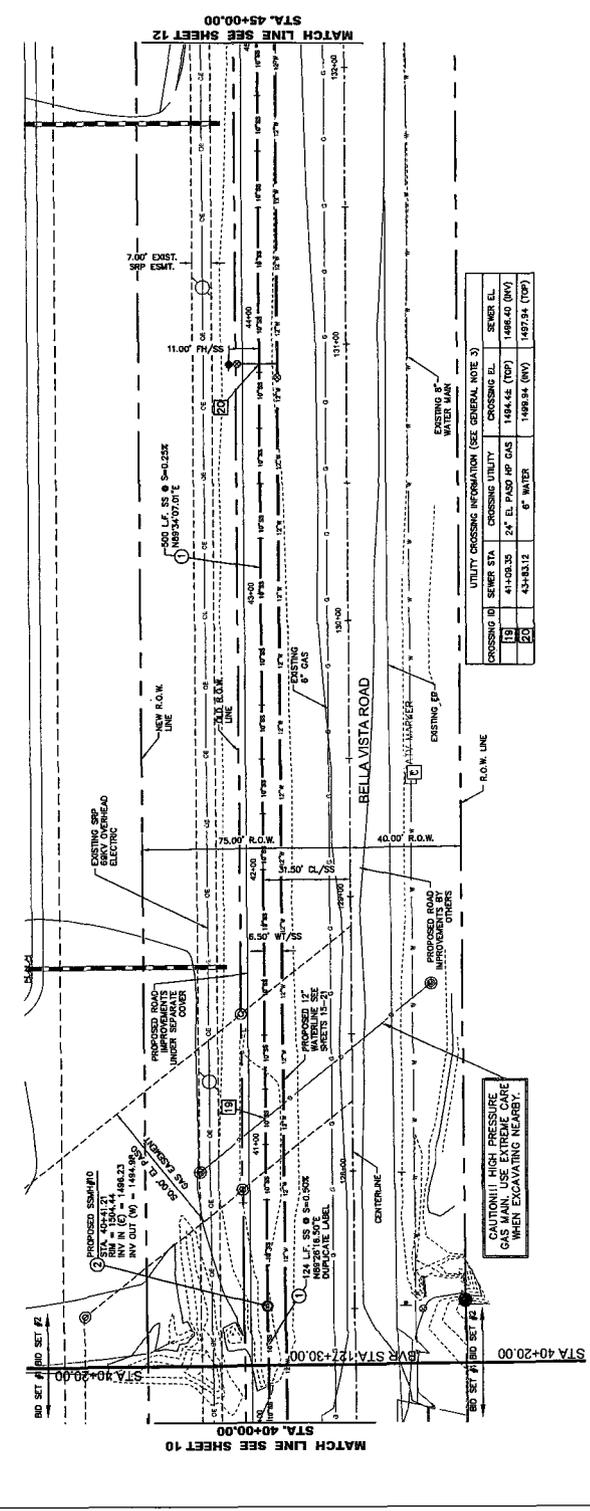
500 L.F. 10" SDR 35 PVC SEWER

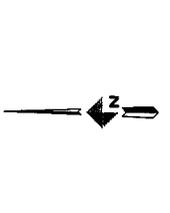
500 L.F. 10" SDR 35 PVC SEWER



- SEWER CONSTRUCTION NOTES**
1. INSTALL 10" SDR 35 PVC SANITARY SEWER PER MAG STD. DTL. 402.
 2. CONSTRUCT 48" SANITARY SEWER MANHOLE PER MAG STD. DTL. 402.
 3. CONSTRUCT 60" SANITARY SEWER MANHOLE PER MAG STD. DTL. 402.
 4. PROVIDE "T-TOP" TRENCH REPAIR AT SEWER LINE TRENCH PER MAG STD. DTL. 200-1.
 5. REPLACE CONCRETE VALLEY GUTTER IN ROW.
 6. REPLACE SIGN AND SIGN POST AND BASE IN ROW.
 7. INSTALL 24" ID STEEL CASING (MINIMUM 10' LONG) AT SEWER MANHOLES AND AT TRENCH ENDS PER MAG SPECIFICATION SECTION 602 AND UPR REQUIREMENTS.
 8. JACK AND BORE AT DIMENSIONS TO BE SHOWN. REMOVE EXISTING SIGNAL AS SHOWN. REPAIR SIGNAL AND PATCHWORK MANHOLES IN ROW.
 9. CONNECT TO EXISTING MANHOLE BY BORING THROUGH MANHOLE SIDEWALL. REMOVE EXISTING MANHOLE AND RECONNECT TO ACCOMMODATE NEWLY CONNECTED PIPE.
 10. CAP SANITARY SEWER LINE BURY STEEL FRAME 24" BELOW FINISHED GRADE AT CAP FOR LOCKING PURPOSES.

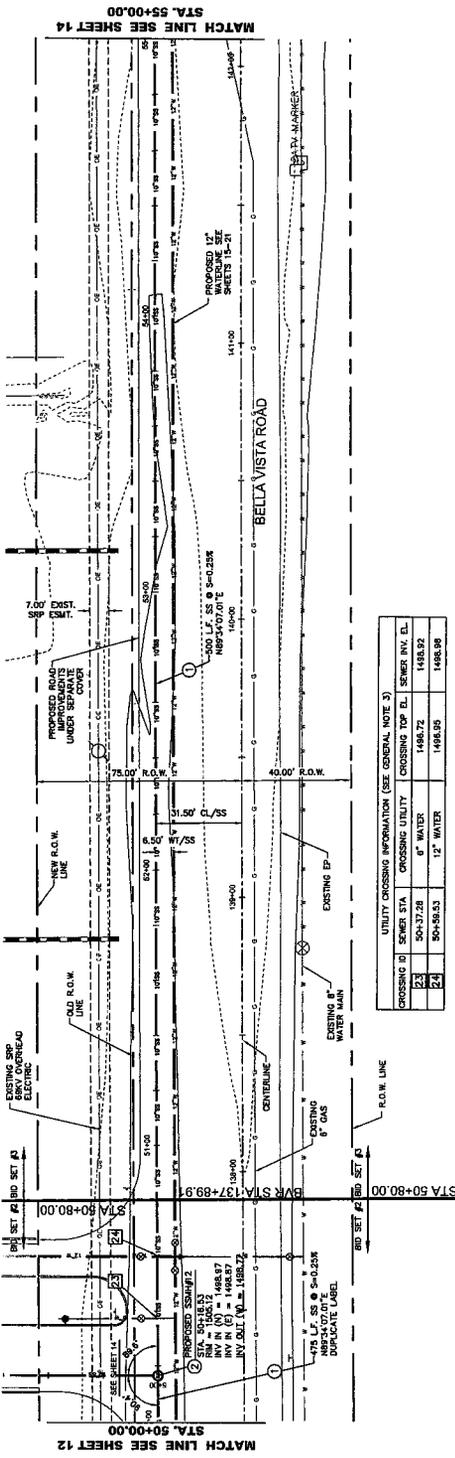
- GENERAL NOTES**
1. SANITARY SEWER DISTANCES SHOWN ON THIS SHEET ARE TO CENTER OF MANHOLE. DISTANCES ARE TO CENTER OF MANHOLE UNLESS OTHERWISE NOTED. DISTANCES TO CENTER OF MANHOLE ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ANY DISCOVERED UTILITIES.
 2. THE CONTRACTOR MUST ADHERE TO NEW MESA IRRIGATION DISTRICT (NID) REQUIREMENTS WITHIN THE NID EXHAUSTION.
 3. THE CONTRACTOR MUST ADHERE TO UNION PACIFIC RAILROAD PERMIT/CONSTRUCTION REQUIREMENTS WITHIN THE NID EXHAUSTION.
 4. THE CONTRACTOR MUST ADHERE TO PASO GAS CONSTRUCTION REQUIREMENTS WITHIN THE PASO GAS EXHAUSTION.
 5. MANHOLE SYMBOLS ARE CENTERED OVER FRAME AND GRATE.





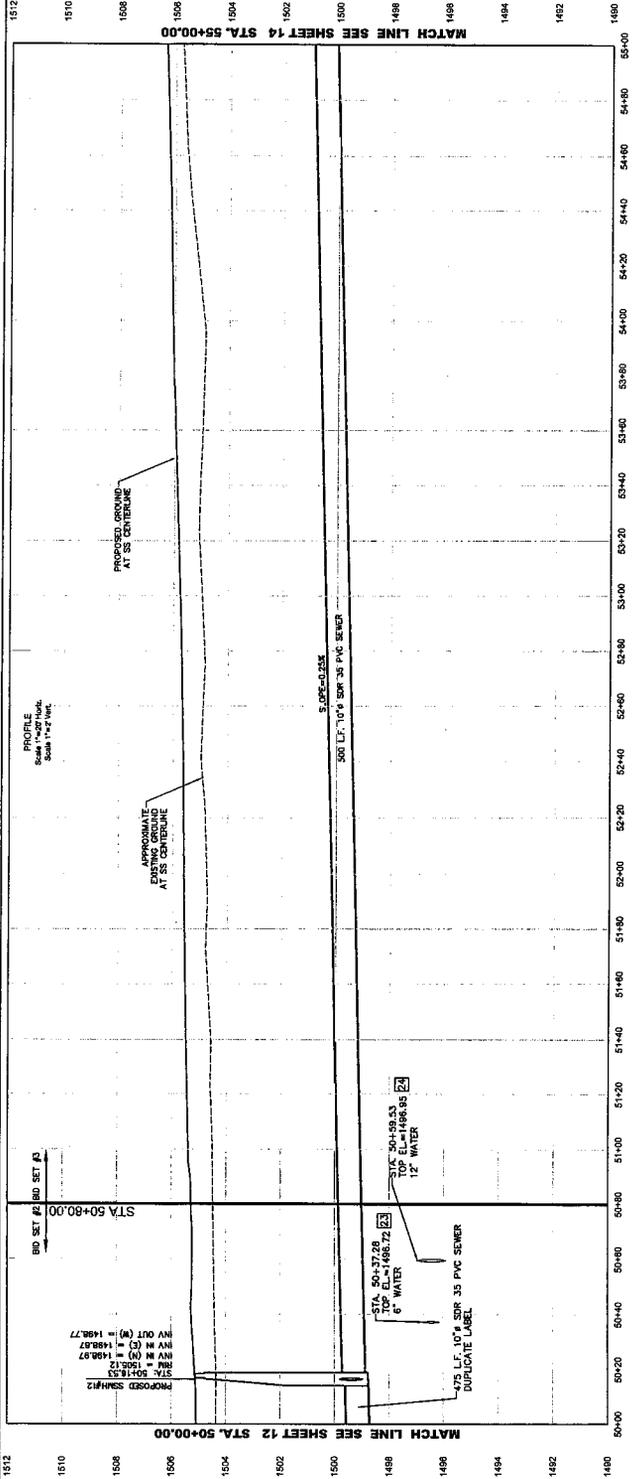
- SEWER CONSTRUCTION NOTES**
1. INSTALL 10" SDR 35 PVC SANITARY SEWER LINE.
 2. INSTALL 48" SDR 35 PVC SANITARY SEWER MANHOLE PER MAG STD. DTL. 200-1.
 3. CONSTRUCT 48" SANITARY SEWER MANHOLE PER MAG STD. DTL. 200-1.
 4. PROVIDE "T-TOP" TRENCH REPAIR AT SEWER LINE TRENCH PER MAG STD. DTL. 200-1.
 5. REPLACE CONCRETE VALLEY CUTTER IN POND.
 6. REPLACE SINK AND SINK POOL AND BASE IN POND.
 7. INSTALL 24" ID STEEL CASING (MINIMUM LENGTH PER MAG SPECIFICATION SECTION 602 AND UPPER REQUIREMENTS).
 8. JACK AND BORE AT DIMENSIONS TO BE SHOWN AND REMOVE EXISTING ASPHALT SURF AND EXISTING 12" WATER MAIN AND 8" GAS MAINS IN TRENCH AND RECONSTRUCT TO EXISTING MANHOLE BY BORING THROUGH MANHOLE SPOWALL, RESHAPE AND RECONSTRUCT TO EXISTING MANHOLE. ACCOMMODATE NEWLY CONNECTED PIPE.
 9. 10" SDR 35 PVC SANITARY SEWER LINE. BURY STEEL PIPE 24" BELOW FINISHED GRADE AT CUP FOR LIGHTING PURPOSES.

- GENERAL NOTES**
1. SANITARY SEWER LINES SHOWN ON THIS SHEET ARE FROM CENTER OF MANHOLE TO CENTER OF MANHOLE DISTANCES ARE NOT TO BE INTERFERED WITH. WITH DIMENSIONS INDICATE A LENGTH THAT HAS PREVIOUSLY BEEN CALLED OUT IN A PRIOR SHEET.
 2. SANITARY SEWER SLOPES SHOWN ON THIS SHEET ARE CALCULATED FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.
 3. SLOPES ARE TO BE VERIFIED BY BOTH TOPOGRAPHIC SURVEY AND AS-BUILT SURVEY. MANHOLE LOCATION AND VERTICAL LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 4. WHEN CONTRACTOR MUST ADHERE TO NEW PERMITS/CONSTRUCTION REQUIREMENTS WITHIN THE NAD 83 DATUM.
 5. THE CONTRACTOR MUST ADHERE TO ALL LOCAL, STATE AND FEDERAL REQUIREMENTS WITHIN THE R.O.W.
 6. THE CONTRACTOR MUST ADHERE TO ALL LOCAL, STATE AND FEDERAL REQUIREMENTS WITHIN THE R.O.W. EXCEPT WITHIN THE R.O.W. EXCEPT WITHIN THE R.O.W.
 7. MANHOLE SYMBOLS ARE CENTERED OVER THE PIPE AND DO NOT INDICATE CENTER OF FRAME AND GATE.



UTILITY CROSSING INFORMATION (SEE GENERAL NOTE 3)

CROSSING ID	SEWER STA	CROSSING UTILITY	CROSSING TOP EL.	SEWER INV. EL.
23	50+37.28	8" WATER	1486.72	1485.92
24	50+58.53	12" WATER	1486.58	1485.98



SEWER PLAN AND PROFILE
WATER AND SEWER EXTENSION ALONG
BELLA VISTA ROAD, PINAL CO., AZ

CONSTRUCTION DOCUMENTS

DOWL HKM
130 N Western Rd. Tempe, Arizona 85284
Phone: (480) 752-0800 Fax: (480) 752-0833



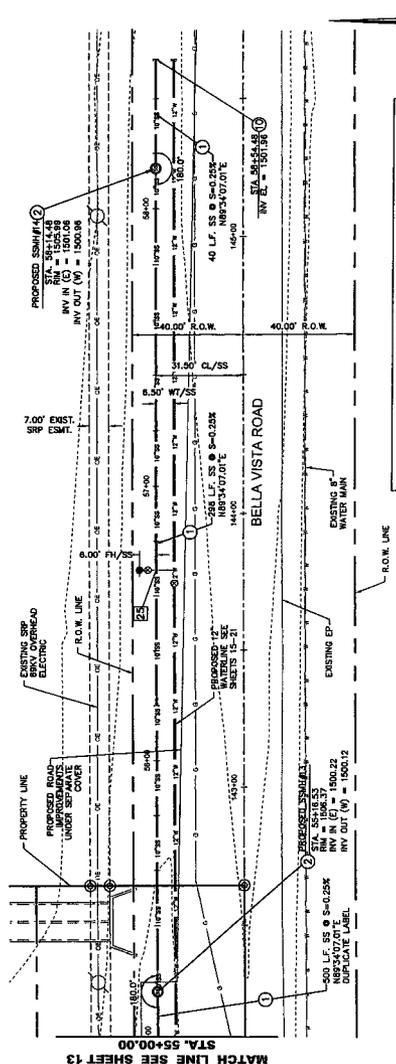
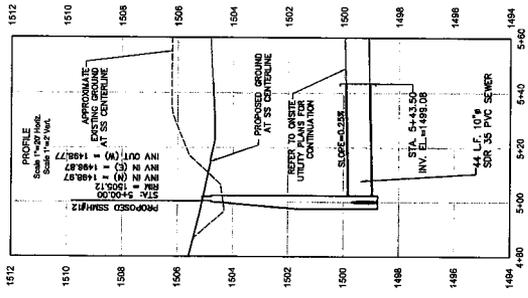
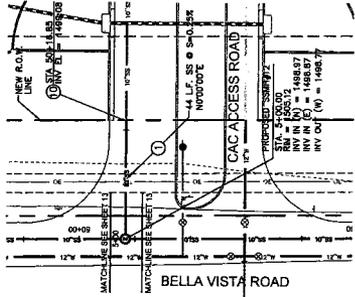
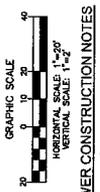
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GENERAL NOTES

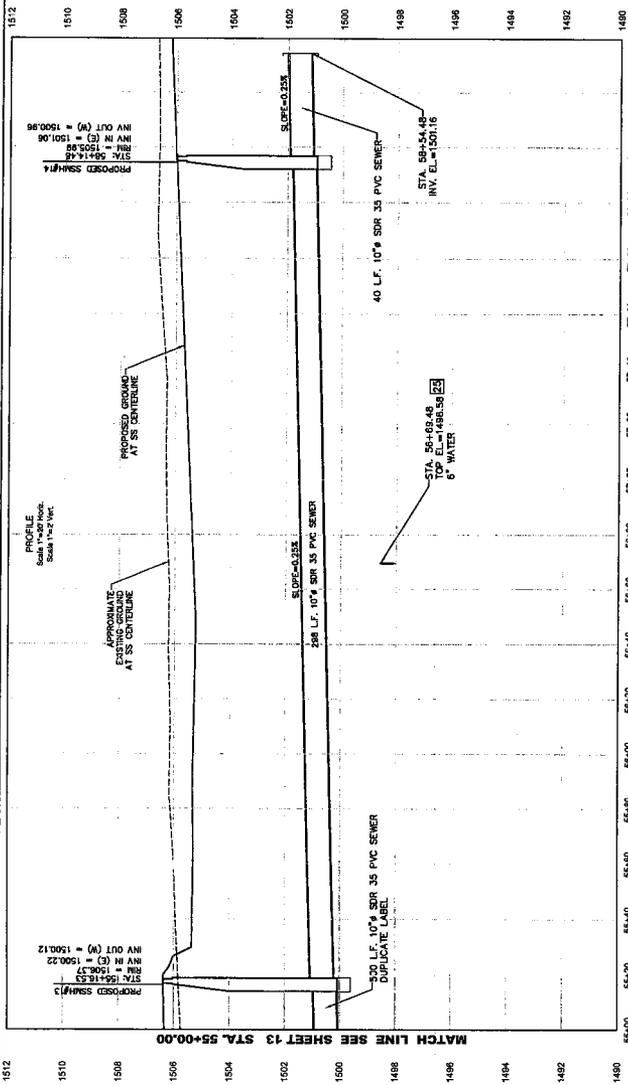
1. SANITARY SEWER LOCATIONS SHOWN ON THIS SHEET ARE BASED ON THE CENTER OF MANHOLE. THE CENTER OF MANHOLE IS NOT BROKEN UP BY ROAD OR UTILITY CROSSINGS. THE CENTER OF MANHOLE IS SHOWN AS A POINT WITH A NUMBER THAT HAS ALREADY BEEN CALLED OUT ON A PRIOR SHEET.
2. SANITARY SEWER SIZES SHOWN ON THIS SHEET ARE BASED ON THE CENTER OF MANHOLE. THE CENTER OF MANHOLE IS NOT BROKEN UP BY ROAD OR UTILITY CROSSINGS. THE CENTER OF MANHOLE IS SHOWN AS A POINT WITH A NUMBER THAT HAS ALREADY BEEN CALLED OUT ON A PRIOR SHEET.
3. EXISTING UTILITY LOCATIONS ARE BASED ON THE CENTER OF MANHOLE. THE CENTER OF MANHOLE IS NOT BROKEN UP BY ROAD OR UTILITY CROSSINGS. THE CENTER OF MANHOLE IS SHOWN AS A POINT WITH A NUMBER THAT HAS ALREADY BEEN CALLED OUT ON A PRIOR SHEET.
4. THE CONTRACTOR MUST ADHERE TO ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS WITHIN THE ROAD EASEMENT.
5. THE CONTRACTOR MUST ADHERE TO ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS WITHIN THE ROAD EASEMENT.
6. THE CONTRACTOR MUST ADHERE TO ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS WITHIN THE ROAD EASEMENT.
7. MANHOLE SYMBOLS ARE CENTERED OVER THE CENTER OF THE MANHOLE.

- SEWER CONSTRUCTION NOTES**
1. INSTALL 10" SDR 35 PVC SANITARY SEWER PER MAG STD. DTL. 200-1.
 2. CONSTRUCT 48" SANITARY SEWER MANHOLE PER MAG STD. DTL. 200-1.
 3. CONSTRUCT 48" SANITARY SEWER MANHOLE PER MAG STD. DTL. 200-1.
 4. PROVIDE "T-TOP" TRENCH REPAIR AT SEWER LINE TRENCH PER MAG STD. DTL. 200-1.
 5. REPLACE CONCRETE VALVE OUTER IN RIND. RIND.
 6. REPLACE SIGN AND SIGN POST AND BASE IN RIND.
 7. INSTALL 24" DI STEEL CASING (MINIMUM 10' LONG) OVER EXISTING TRENCH PER MAG STD. DTL. 200-1 AND UPRR REQUIREMENTS.
 8. JACK AND BORE PIT DIMENSIONS TO BE ACCORDING TO UPRR REQUIREMENTS. REMOVE EXISTING ASPHALT AND RECONSTRUCT WITH ASPHALT AND CONCRETE.
 9. CONNECT TO EXISTING MANHOLE BY BORING THROUGH MANHOLE SPOUT, RESHAPE EXISTING MANHOLE TO ACCOMMODATE NEWLY CONNECTED PIPE TO EXISTING MANHOLE.
 10. SDR 35 SANITARY SEWER LINE SURVEY STAKE 24" BELOW FINISHED GRADE AT CAP FOR LOCATING PURPOSES.



UTILITY CROSSING INFORMATION (SEE GENERAL NOTE 3)

CROSSING ID	SEWER STA.	CROSSING UTILITY	CROSSING TOP E.L.	SEWER INV. E.L.
23	58+89.48	6" WATER	1488.85	1500.60





DR Group
Architecture Engineering Planning Interiors
SFR-P4-040-11

09/11/17 09:21:20
30/11/17 09:21:20

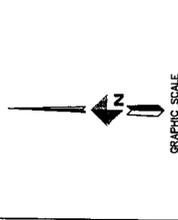
WATER PLAN AND PROFILE
WATER AND SEWER EXTENSION ALONG
BELLA VISTA ROAD, PINAL CO., AZ



DOWL HKM
Professional Engineer
License No. 12345
State of Arizona
Phone: (480) 752-0000
Fax: (480) 752-0003

CONSTRUCTION DOCUMENTS

17 OF 25



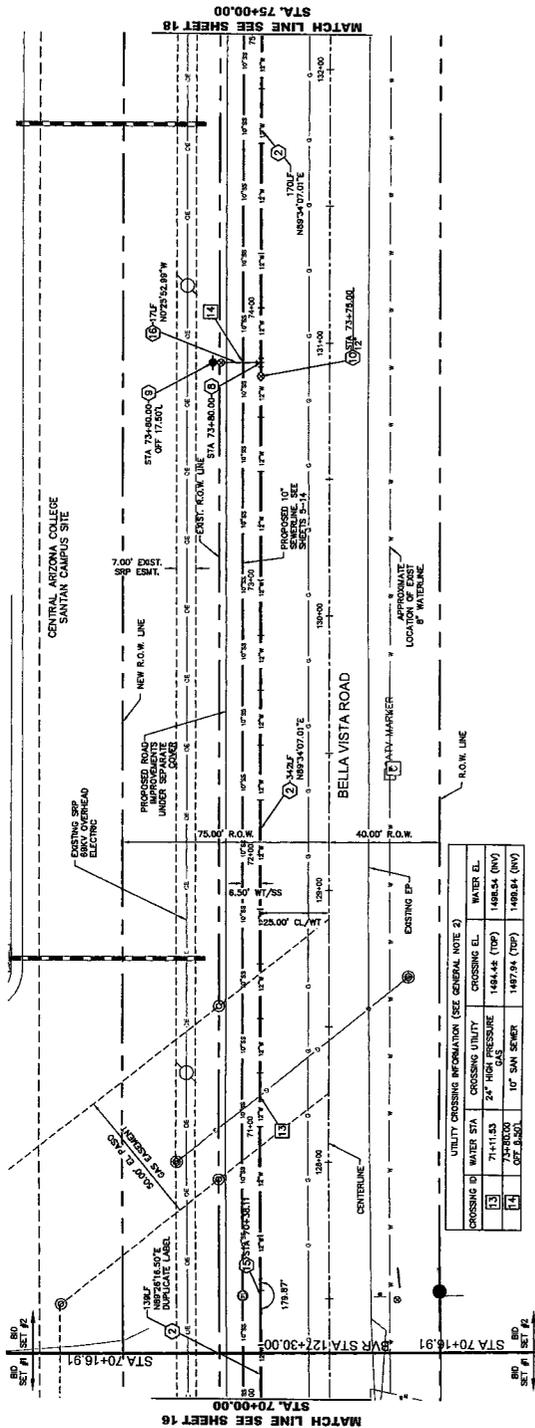
WATER CONSTRUCTION NOTES

1. INSTALL 12" D.I.P. TAPPING SLEEVE AND BLOTTING PER MAG STD. DTL. 300.
2. INSTALL 12" D.I.P. TAPPING SLEEVE AND BLOTTING PER MAG STD. DTL. 300.
3. INSTALL 12" D.I.P. TAPPING SLEEVE AND BLOTTING PER MAG STD. DTL. 300.
4. PROVIDE "T-TOP" TRENCH REPAIR AT 20' TRENCH PER MAG STD. DTL.
5. REFURGE SOIL AND SIGN POST AND BASE IN TRENCH.
6. INSTALL 90° BEND WITH MEG-A-LUG JOINT RESTRAINTS. SIZE PER PLAN. PROVIDE BLOTTING PER MAG STD. DTL. 300.
7. INSTALL 45° BEND. SIZE PER MAG STD. DTL. 300. PROVIDE THRUST BLOTTING PER MAG STD. DTL. 300.
8. INSTALL 12"x12"x12" TEE. PROVIDE THRUST BLOTTING PER MAG STD. DTL. 300.
9. INSTALL 12"x12"x12" TEE. PROVIDE THRUST BLOTTING PER MAG STD. DTL. 300.
10. INSTALL GATE VALVE AND VALVE BOX. TYPE "V" PER MAG STD. DTL. 301-1. SIZE PER PLAN.
11. INSTALL 74" O.D. STEEL CASING (THICKNESS PER SPECIFICATION SECTION 802 AND UPRR REQUIREMENTS).
12. JACK AND BORE PIT DIMENSIONS TO BE ACCORDING TO UPRR REQUIREMENTS. BOREHOLE AND REMOVE EXISTING ASPHALT AND PAVEMENT MARKINGS IN PAVEMENT.
13. INSTALL 12"x12"x12" TEE. PROVIDE THRUST BLOTTING PER MAG STD. DTL. 300.
14. INSTALL 12"x12"x12" TEE. PROVIDE THRUST BLOTTING PER MAG STD. DTL. 300.
15. INSTALL 12"x12"x12" TEE. PROVIDE THRUST BLOTTING PER MAG STD. DTL. 300.
16. INSTALL 12" CROSS. PROVIDE THRUST BLOTTING PER MAG STD. DTL. 300.
17. INSTALL 12" CROSS. PROVIDE THRUST BLOTTING PER MAG STD. DTL. 300.
18. INSTALL 12" CROSS. PROVIDE THRUST BLOTTING PER MAG STD. DTL. 300.
19. INSTALL 12" CROSS. PROVIDE THRUST BLOTTING PER MAG STD. DTL. 300.
20. INSTALL 12" CROSS. PROVIDE THRUST BLOTTING PER MAG STD. DTL. 300.
21. INSTALL 12" CROSS. PROVIDE THRUST BLOTTING PER MAG STD. DTL. 300.
22. INSTALL 12" CROSS. PROVIDE THRUST BLOTTING PER MAG STD. DTL. 300.

GENERAL NOTES

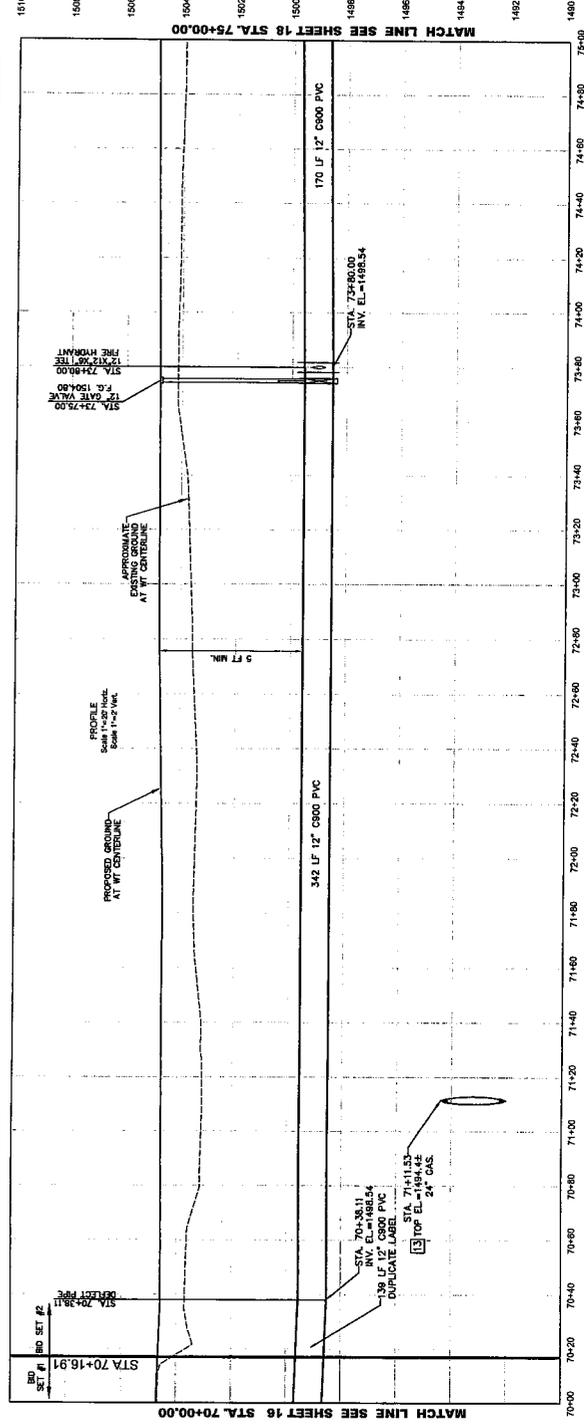
1. MAG STD. UTILITY SIZES AND THE PLANS CAN BE FOUND IN SHEETS 18-20.
2. ALL UTILITY LOCATIONS ARE BASED ON THE INFORMATION PROVIDED BY THE UTILITY COMPANIES. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES AND SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES.

call at least two full working days before you begin excavation.
ARIZONA
State Board of Professional Engineers and Surveyors
1800 N. Central Expressway, Suite 1000
Phoenix, AZ 85004
Tel: 602-255-1100



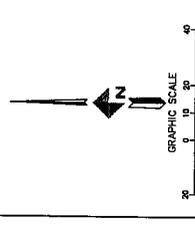
UTILITY CROSSING INFORMATION (SEE GENERAL NOTE 2)

CROSSING ID	WATER STA.	CROSSING UTILITY	CROSSING EL.	WATER EL.
13	71+11.53	24" HIGH PRESSURE GAS	1484.48 (TOP)	1486.54 (INV)
14	72+20.00	10" SAN SEWER	1487.94 (TOP)	1493.84 (INV)



WATER PLAN AND PROFILE
WATER AND SEWER EXTENSION ALONG
BELLA VISTA ROAD, PINAL CO., AZ

CONSTRUCTION DOCUMENTS
DOWL HKM
430 W Warner Rd, Suite 100
Tempe, Arizona 85284
Phone (480) 753-0800 Fax (480) 753-0803

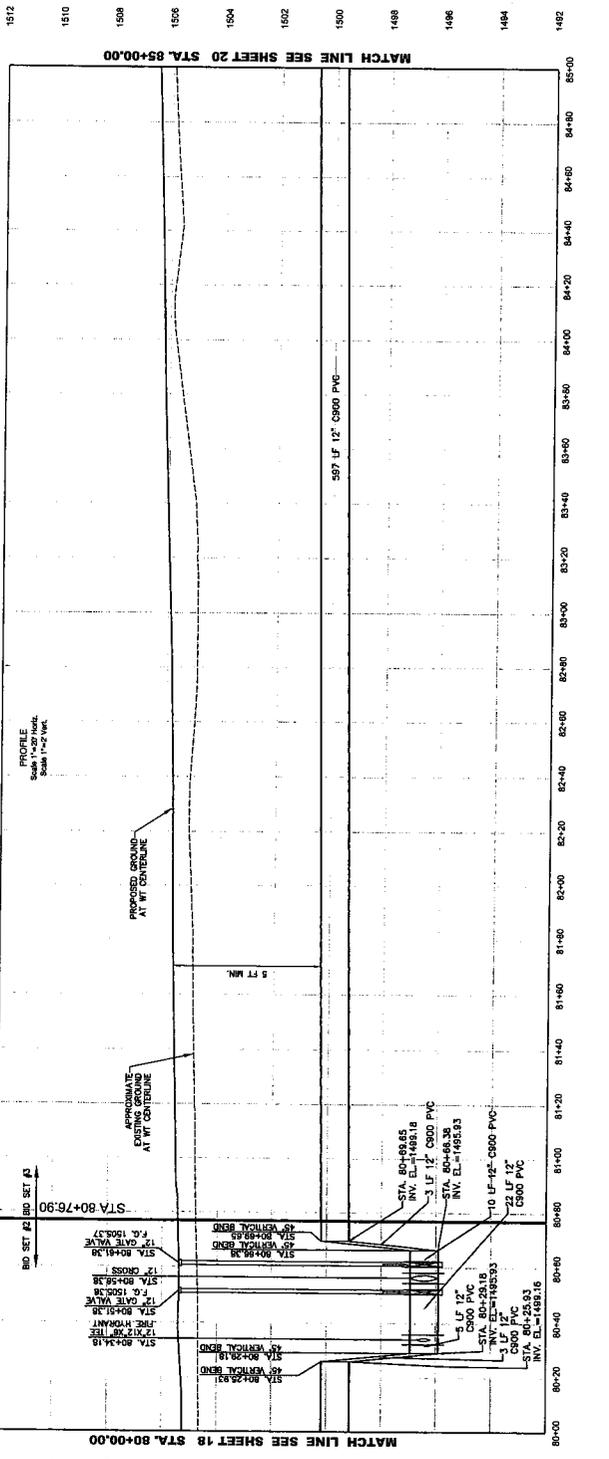
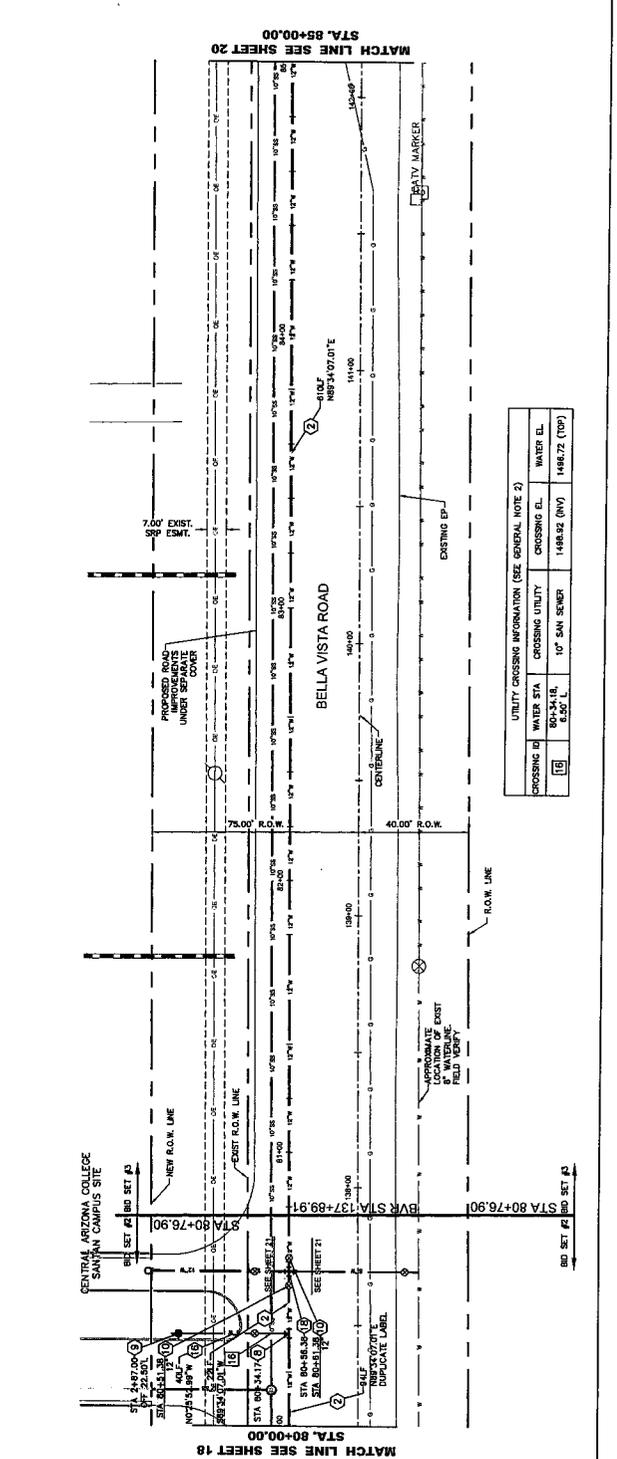


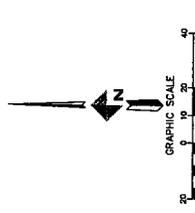
WATER CONSTRUCTION NOTES

1. INSTALL 12" 12' TAPPING SLEEVE AND VALVE PER MAG STD. DTL. 340.
2. INSTALL 12" CPVC WATER LINE. LENGTH AND DIRECTION PER PLAN.
3. PROVIDE 75' TRENCH DEPTH AT PER MAG STD. DTL. 340.
4. PROVIDE 75' TRENCH DEPTH AT PER MAG STD. DTL. 340.
5. REFURISH SIGN AND SIGN POST AND BASE PER PLAN.
6. REFURISH SIGN POST AND BASE PER PLAN.
7. REFURISH SIGN POST AND BASE PER PLAN.
8. REFURISH SIGN POST AND BASE PER PLAN.
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19. REFURISH SIGN POST AND BASE PER PLAN.
20. REFURISH SIGN POST AND BASE PER PLAN.
21. REFURISH SIGN POST AND BASE PER PLAN.
22. REFURISH SIGN POST AND BASE PER PLAN.

1. MAG STD. DTL. USED IN THE PLANS CAN BE USED FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY UTILITIES.
2. ALL UTILITIES SHALL BE PROTECTED BY A MINIMUM OF 18" OF GRANULAR FILL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY UTILITIES.
3. ALL UTILITIES SHALL BE PROTECTED BY A MINIMUM OF 18" OF GRANULAR FILL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY UTILITIES.
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21. ALL UTILITIES SHALL BE PROTECTED BY A MINIMUM OF 18" OF GRANULAR FILL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY UTILITIES.
22. ALL UTILITIES SHALL BE PROTECTED BY A MINIMUM OF 18" OF GRANULAR FILL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY UTILITIES.

GENERAL NOTES
1. MAG STD. DTL. USED IN THE PLANS CAN BE USED FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY UTILITIES.





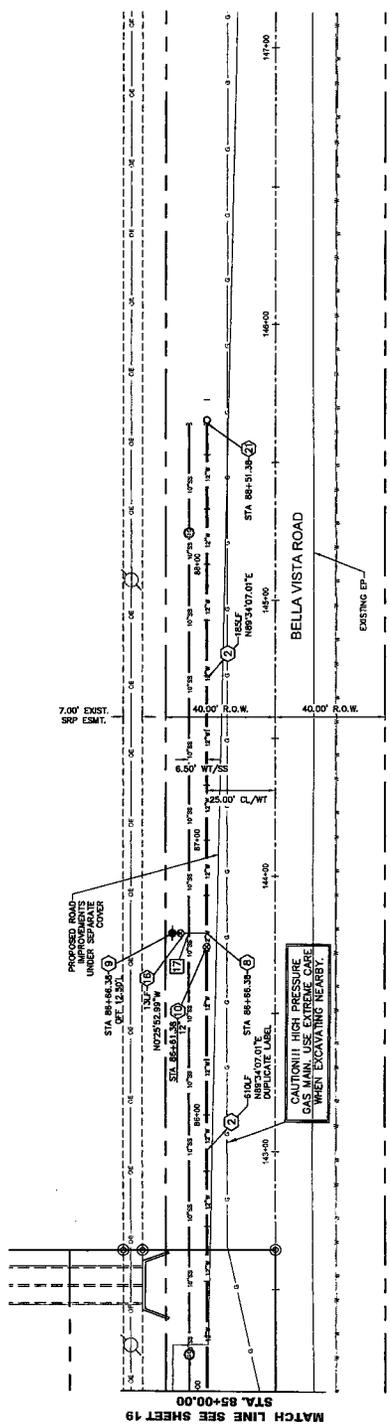
WATER CONSTRUCTION NOTES

1. INSTALL 12" x 12" TAPPING SLEEVE AND VALVE PER MAG STD. DTL. 300.
2. INSTALL 12" x 12" CHOD PVC WATER LINE LENGTH AND VALVE PER MAG STD. DTL. 300.
3. INSTALL 12" x 12" TAPPING SLEEVE AND VALVE PER MAG STD. DTL. 300.
4. PROVIDE 7'-0" TRENCH DEPTH AT 200'-H.
5. WATER LINE TRENCH PER MAG STD. DTL. 300.
6. SIGN AND SHOW POST AND BASE IN P.L.A.N.
7. INSTALL 90° BEND WITH 1/2" - 1/4" JOINT RESTRAINTS, SIZE PER P.L.A.N. PROVIDE THRUST BLOCKING PER MAG STD. DTL. 300.
8. PROVIDE THRUST BLOCKING PER MAG STD. DTL. 300.
9. INSTALL 12" x 12" TEE. PROVIDE THRUST BLOCKING PER MAG STD. DTL. 300.
10. INSTALL 12" x 12" TEE. PROVIDE THRUST BLOCKING PER MAG STD. DTL. 300.
11. INSTALL 12" x 12" TEE. PROVIDE THRUST BLOCKING PER MAG STD. DTL. 300.
12. JACK AND BORE PIT DIMENSIONS TO BE AS SHOWN. PROVIDE 1/2" - 1/4" JOINT RESTRAINTS, SIZE PER P.L.A.N. PROVIDE THRUST BLOCKING PER MAG STD. DTL. 300.
13. JACK AND BORE PIT DIMENSIONS TO BE AS SHOWN. PROVIDE 1/2" - 1/4" JOINT RESTRAINTS, SIZE PER P.L.A.N. PROVIDE THRUST BLOCKING PER MAG STD. DTL. 300.
14. JACK AND BORE PIT DIMENSIONS TO BE AS SHOWN. PROVIDE 1/2" - 1/4" JOINT RESTRAINTS, SIZE PER P.L.A.N. PROVIDE THRUST BLOCKING PER MAG STD. DTL. 300.
15. JACK AND BORE PIT DIMENSIONS TO BE AS SHOWN. PROVIDE 1/2" - 1/4" JOINT RESTRAINTS, SIZE PER P.L.A.N. PROVIDE THRUST BLOCKING PER MAG STD. DTL. 300.
16. JACK AND BORE PIT DIMENSIONS TO BE AS SHOWN. PROVIDE 1/2" - 1/4" JOINT RESTRAINTS, SIZE PER P.L.A.N. PROVIDE THRUST BLOCKING PER MAG STD. DTL. 300.
17. JACK AND BORE PIT DIMENSIONS TO BE AS SHOWN. PROVIDE 1/2" - 1/4" JOINT RESTRAINTS, SIZE PER P.L.A.N. PROVIDE THRUST BLOCKING PER MAG STD. DTL. 300.
18. JACK AND BORE PIT DIMENSIONS TO BE AS SHOWN. PROVIDE 1/2" - 1/4" JOINT RESTRAINTS, SIZE PER P.L.A.N. PROVIDE THRUST BLOCKING PER MAG STD. DTL. 300.
19. JACK AND BORE PIT DIMENSIONS TO BE AS SHOWN. PROVIDE 1/2" - 1/4" JOINT RESTRAINTS, SIZE PER P.L.A.N. PROVIDE THRUST BLOCKING PER MAG STD. DTL. 300.
20. JACK AND BORE PIT DIMENSIONS TO BE AS SHOWN. PROVIDE 1/2" - 1/4" JOINT RESTRAINTS, SIZE PER P.L.A.N. PROVIDE THRUST BLOCKING PER MAG STD. DTL. 300.
21. JACK AND BORE PIT DIMENSIONS TO BE AS SHOWN. PROVIDE 1/2" - 1/4" JOINT RESTRAINTS, SIZE PER P.L.A.N. PROVIDE THRUST BLOCKING PER MAG STD. DTL. 300.
22. JACK AND BORE PIT DIMENSIONS TO BE AS SHOWN. PROVIDE 1/2" - 1/4" JOINT RESTRAINTS, SIZE PER P.L.A.N. PROVIDE THRUST BLOCKING PER MAG STD. DTL. 300.

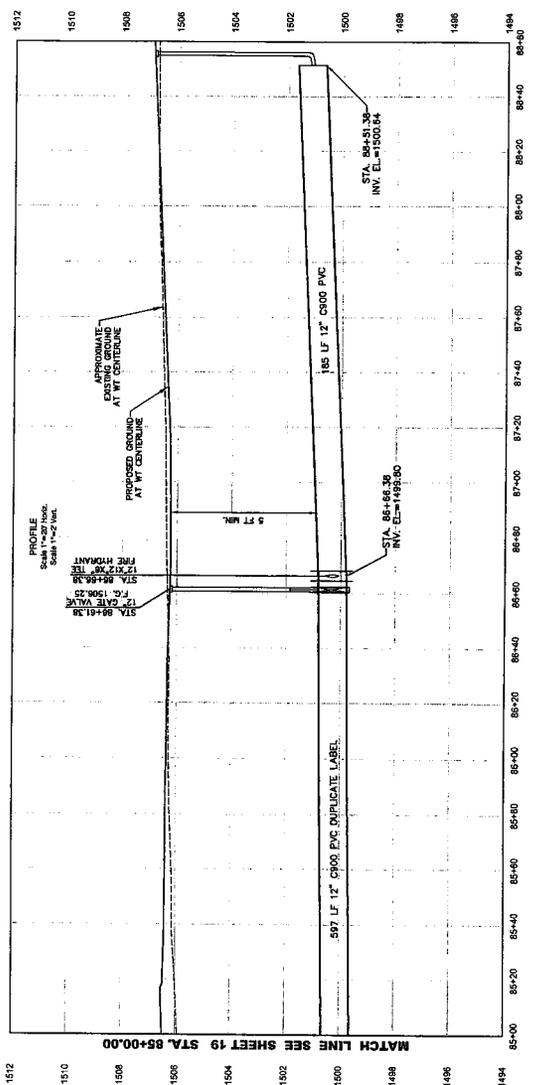
GENERAL NOTES

1. MAG STD. DTL. 300 IS USED IN THE PLANS CAN BE FOUND IN SHEETS EP-20.
2. ALL DIMENSIONS ARE IN FEET AND INCHES. THE CONTRACTOR SHALL VERIFY THE VERTICAL LOCATION OF EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

Call at least two full working days before you begin construction.
ARIZONA 80
 Licensed Professional Engineer
 License No. 12010
 State of Arizona
 1500 N. 15th Street, Suite 100
 Tempe, AZ 85284
 Phone: (480) 835-1100



UTILITY CROSSING INFORMATION (SEE GENERAL NOTE 2)			
CROSSING ID	WATER STA.	CROSSING UTILITY	CROSSING EL.
17	86+28.35	10" SAN SEWER	1000.00 (INV.) 1488.08 (TOP)



MATCH LINE SEE SHEET 19
 STA. 85+00.00

MATCH LINE SEE SHEET 19
 STA. 85+00.00



DOWL H&M
400 S. Bruce Rd. Bldg. 101
Tempe, Arizona 85284
Phone: (480) 733-0800
Fax: (480) 733-0803

CONSTRUCTION DOCUMENTS

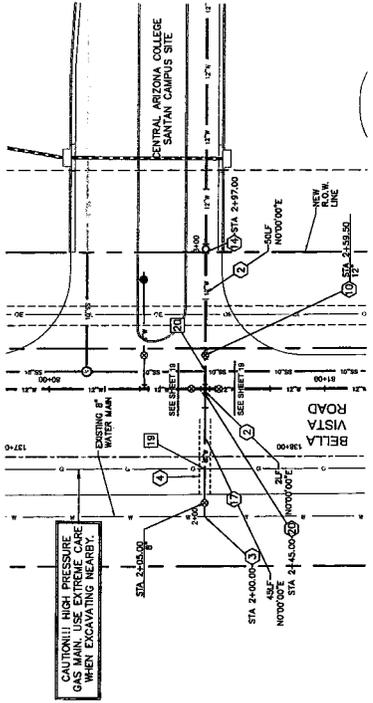
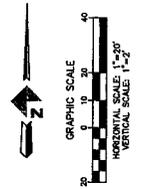
GENERAL NOTES

1. SEE GENERAL NOTE 2 FOR EXISTING UTILITY LOCATIONS. THE PLANS CAN BE FOUND IN SHEETS A-20 THROUGH A-24.
2. EXISTING UTILITY LOCATIONS ARE BASED ON INFORMATION PROVIDED BY THE UTILITY COMPANIES. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES THROUGH SHALLOW CONTINUOUS MONITORING SURVEYING (SCMS) PRIOR TO THE BEGAINING OF ANY DISBURSEMENT.

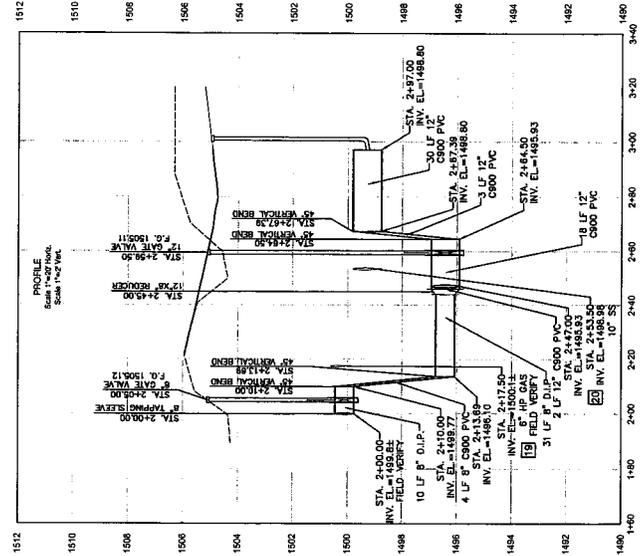


WATER CONSTRUCTION NOTES

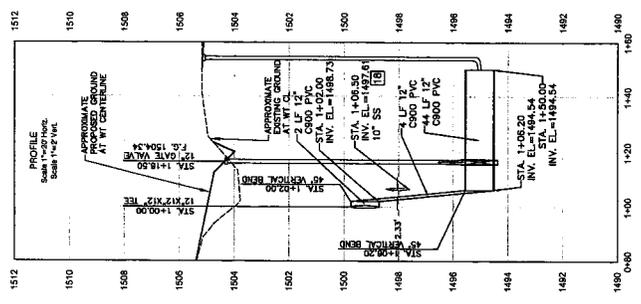
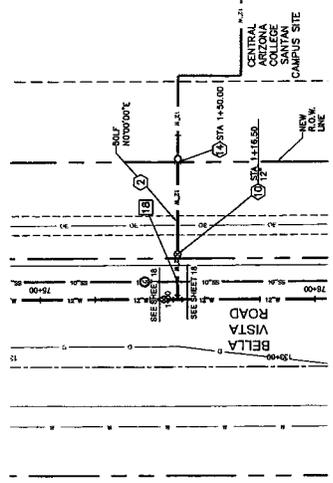
1. INSTALL 12" x 12" TAPPING SLEEVE AND VALVE PER MAG STD. DTL. 300.
2. INSTALL 12" C900 PVC WATER LINE. LENGTH SHALL BE PER PLAN.
3. INSTALL 8" x 8" TAPPING SLEEVE AND VALVE PER MAG STD. DTL. 300.
4. PROVIDE "T-TOP" TRENCH REPAIR AT WATER LINE TRENCH PER MAG STD. DTL. 300-1.
5. PROVIDE SIGN AND SIGN POST AND BASE IN TRENCH.
6. INSTALL 8" DWP WITH MEC-A-JUG JOINT RESTRAINTS. SIZE PER PLAN. PROVIDE THRUST BLOTTING PER MAG STD. DTL. 300.
7. PROVIDE 6" GUNITE BLOTTING PER MAG STD. DTL. 300.
8. INSTALL 12" x 12" TEE. PROVIDE THRUST BLOTTING PER MAG STD. DTL. 300.
9. INSTALL FIRE HYDRANT AND VALVE PER MAG STD. DTL. 300.
10. INSTALL 24" ID STEEL CASING (THICKNESS PER PLAN). PROVIDE VALVE AND SIGN PER PLAN.
11. PROVIDE 2" PER MAG STD. DTL. 300-1. SIZE PER PLAN.
12. JACK AND BERE PIT DIMENSIONS TO BE AS SHOWN. PROVIDE 4" ASPHALT SURFACE AND REMOVE EXISTING ASPHALT AND PAVERMENT SURFACING IN TRENCH.
13. INSTALL 12" x 12" TEE. PROVIDE THRUST BLOTTING PER MAG STD. DTL. 300.
14. IF INSTALLATION OF ON-SITE WATERLINES IS NOT COMPLETED WITH INSTALLATION OF EXISTING WATERLINES, THE CONTRACTOR SHALL PROVIDE TEMPORARY CONNECTIONS TO EXISTING UTILITIES THROUGH SHALLOW CONTINUOUS MONITORING SURVEYING (SCMS) PRIOR TO THE BEGAINING OF ANY DISBURSEMENT.
15. DEFLECT PIPE 5" MAX.
16. INSTALL 8" DWP WATER LINE AND DIRECTION PER PLAN.
17. INSTALL 8" DWP WATER LINE PER PLAN. PROVIDE LENGTH AND DIRECTION PER PLAN.
18. PROVIDE 12" x 12" TEE. PROVIDE THRUST BLOTTING PER MAG STD. DTL. 300.
19. INSTALL AIR RELEASE VALVE PER JOHNSON UTILITIES STD. DTL. J-1-3300.
20. INSTALL 12" x 8" REDUCER. PROVIDE THRUST BLOTTING PER MAG STD. DTL. 300.
21. INSTALL CURB STOP WITH FLUSHING PIPE. TYPE 21, PER MAG STD. DTL. 300.



CAUTION!! HIGH PRESSURE GAS MAIN. USE EXTREME CARE WHEN EXCAVATING NEARBY!!



UTILITY CROSSING INFORMATION (SEE GENERAL NOTE 2)			
CROSSING ID	WATER STA.	CROSSING UTILITY	CROSSING EL.
19	2+17.50	8" CITY OF MESA GAS	1460.12 (INV)
20	2+33.50	10" SANITARY SEWER	1468.88 (INV)
21	2+33.50	10" SANITARY SEWER	1468.85 (TOP)



UTILITY CROSSING INFORMATION (SEE GENERAL NOTE 2)			
CROSSING ID	WATER STA.	CROSSING UTILITY	CROSSING EL.
18	1+08.50	10" SANITARY SEWER	1472.81 (INV)
19	1+08.50	8" CITY OF MESA GAS	1462.08 (TOP)



Full Service Survey/As-built Report

Project Name: Bella Vista Road Water and Sewer Extension
 Date: 11/11/2011
 Client: DR Group
 Surveyor: David H. Korman
 Stationing: STA 0+00 to STA 0+100
 Elevation: 5000.00 to 5100.00
 Scale: 1" = 40.00'

SSS
 Surveying & Mapping Services
 10000 N. 10th Street, Suite 100
 Phoenix, AZ 85020
 Phone: (602) 752-0800 Fax: (602) 752-0823

Full Service Survey/As-built Report

Project Name: Bella Vista Road Water and Sewer Extension
 Date: 11/11/2011
 Client: DR Group
 Surveyor: David H. Korman
 Stationing: STA 0+100 to STA 0+200
 Elevation: 5000.00 to 5100.00
 Scale: 1" = 40.00'

SSS
 Surveying & Mapping Services
 10000 N. 10th Street, Suite 100
 Phoenix, AZ 85020
 Phone: (602) 752-0800 Fax: (602) 752-0823

ENCASED NON-FLAMMABLE PIPELINE CROSSING

Plan view diagram showing the pipeline crossing over a road. The diagram includes a north arrow and a scale bar. The crossing is shown as a dashed line with a centerline. The road is shown as a solid line with a centerline. The crossing is labeled "ENCASED NON-FLAMMABLE PIPELINE CROSSING".

EXHIBIT 'A'
 UNION PACIFIC RAILROAD CO.
 M.P. ENCASED CROSSING AT
 DATE: 11/11/2011

SSS
 Surveying & Mapping Services
 10000 N. 10th Street, Suite 100
 Phoenix, AZ 85020
 Phone: (602) 752-0800 Fax: (602) 752-0823

ENCASED NON-FLAMMABLE PIPELINE CROSSING

Plan view diagram showing the pipeline crossing over a road. The diagram includes a north arrow and a scale bar. The crossing is shown as a dashed line with a centerline. The road is shown as a solid line with a centerline. The crossing is labeled "ENCASED NON-FLAMMABLE PIPELINE CROSSING".

EXHIBIT 'A'
 UNION PACIFIC RAILROAD CO.
 M.P. ENCASED CROSSING AT
 DATE: 11/11/2011

SSS
 Surveying & Mapping Services
 10000 N. 10th Street, Suite 100
 Phoenix, AZ 85020
 Phone: (602) 752-0800 Fax: (602) 752-0823

Full Service Survey/As-built Report

Project Name: Bella Vista Road Water and Sewer Extension
 Date: 11/11/2011
 Client: DR Group
 Surveyor: David H. Korman
 Stationing: STA 0+200 to STA 0+300
 Elevation: 5000.00 to 5100.00
 Scale: 1" = 40.00'

SSS
 Surveying & Mapping Services
 10000 N. 10th Street, Suite 100
 Phoenix, AZ 85020
 Phone: (602) 752-0800 Fax: (602) 752-0823

Full Service Survey/As-built Report

Project Name: Bella Vista Road Water and Sewer Extension
 Date: 11/11/2011
 Client: DR Group
 Surveyor: David H. Korman
 Stationing: STA 0+300 to STA 0+400
 Elevation: 5000.00 to 5100.00
 Scale: 1" = 40.00'

SSS
 Surveying & Mapping Services
 10000 N. 10th Street, Suite 100
 Phoenix, AZ 85020
 Phone: (602) 752-0800 Fax: (602) 752-0823

Full Service Survey/As-built Report

Project Name: Bella Vista Road Water and Sewer Extension
 Date: 11/11/2011
 Client: DR Group
 Surveyor: David H. Korman
 Stationing: STA 0+400 to STA 0+500
 Elevation: 5000.00 to 5100.00
 Scale: 1" = 40.00'

SSS
 Surveying & Mapping Services
 10000 N. 10th Street, Suite 100
 Phoenix, AZ 85020
 Phone: (602) 752-0800 Fax: (602) 752-0823

Full Service Survey/As-built Report

Project Name: Bella Vista Road Water and Sewer Extension
 Date: 11/11/2011
 Client: DR Group
 Surveyor: David H. Korman
 Stationing: STA 0+500 to STA 0+600
 Elevation: 5000.00 to 5100.00
 Scale: 1" = 40.00'

SSS
 Surveying & Mapping Services
 10000 N. 10th Street, Suite 100
 Phoenix, AZ 85020
 Phone: (602) 752-0800 Fax: (602) 752-0823

Attachment 2



May 22, 2012

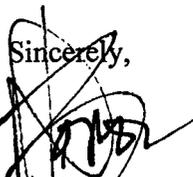
Daniel Hodges
Johnson Utilities
5230 E. Shea Boulevard
Suite 200
Scottsdale, AZ 85254

Dear Mr. Hodges:

Pulte Group does hereby request that the parcel of land that is described on Exhibit A be served by Johnson Utilities for water and wastewater services. Although this property is not currently owned by Pulte, we have entered in to an agreement with SWVP-GTIS MR LLC to acquire it.

We understand that this property is not currently in the service area that is served by Johnson Utilities, but is in the process of expanding the Certificate of Convenience and Necessity through the Arizona Corporation Commission.

If there is anything else that I may provide to assist you in this manner, please don't hesitate to contact me.

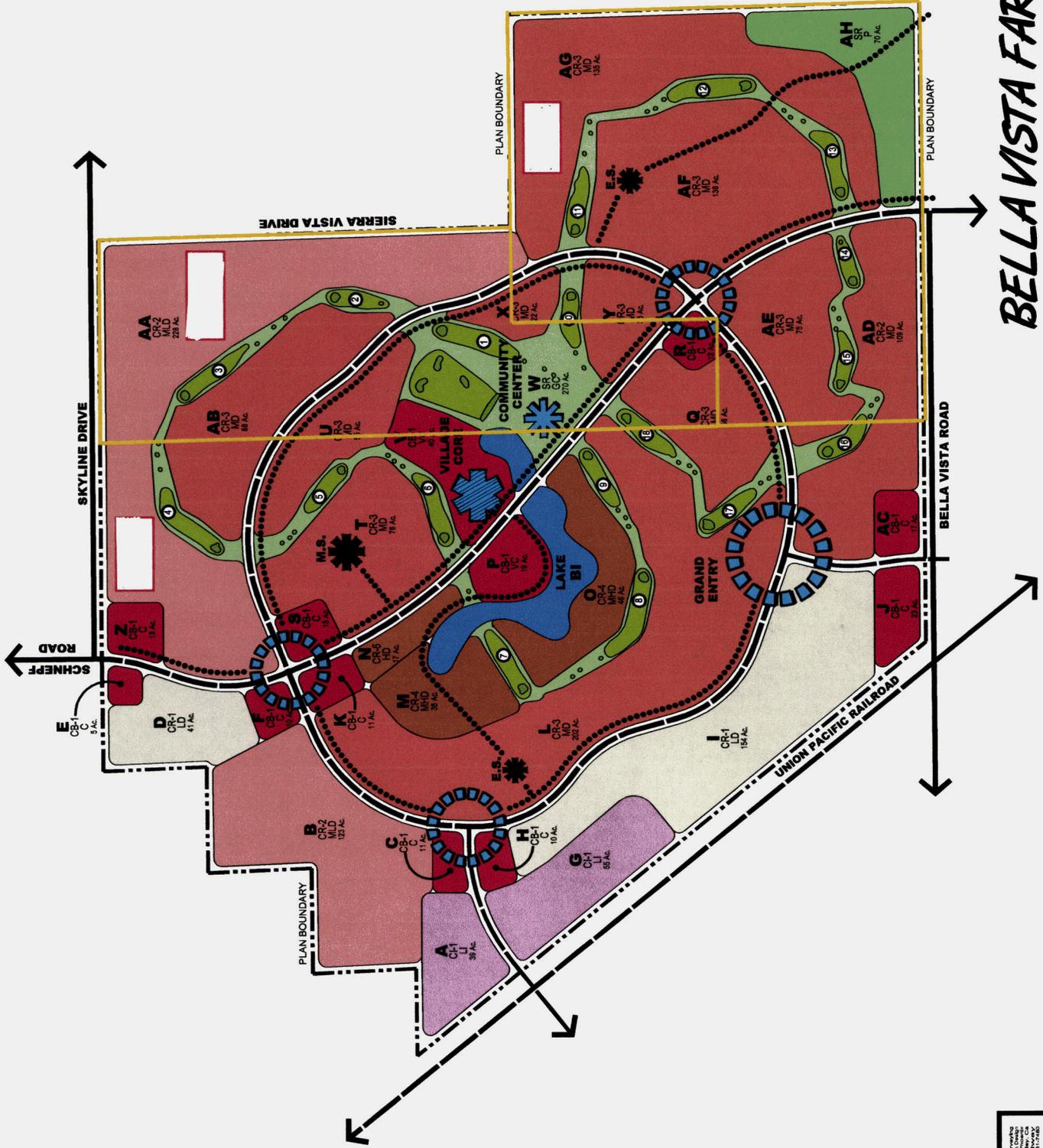
Sincerely,

Daniel Bonow
Pulte Group

attachment



Attachment 3

BELLA VISTA FARMS

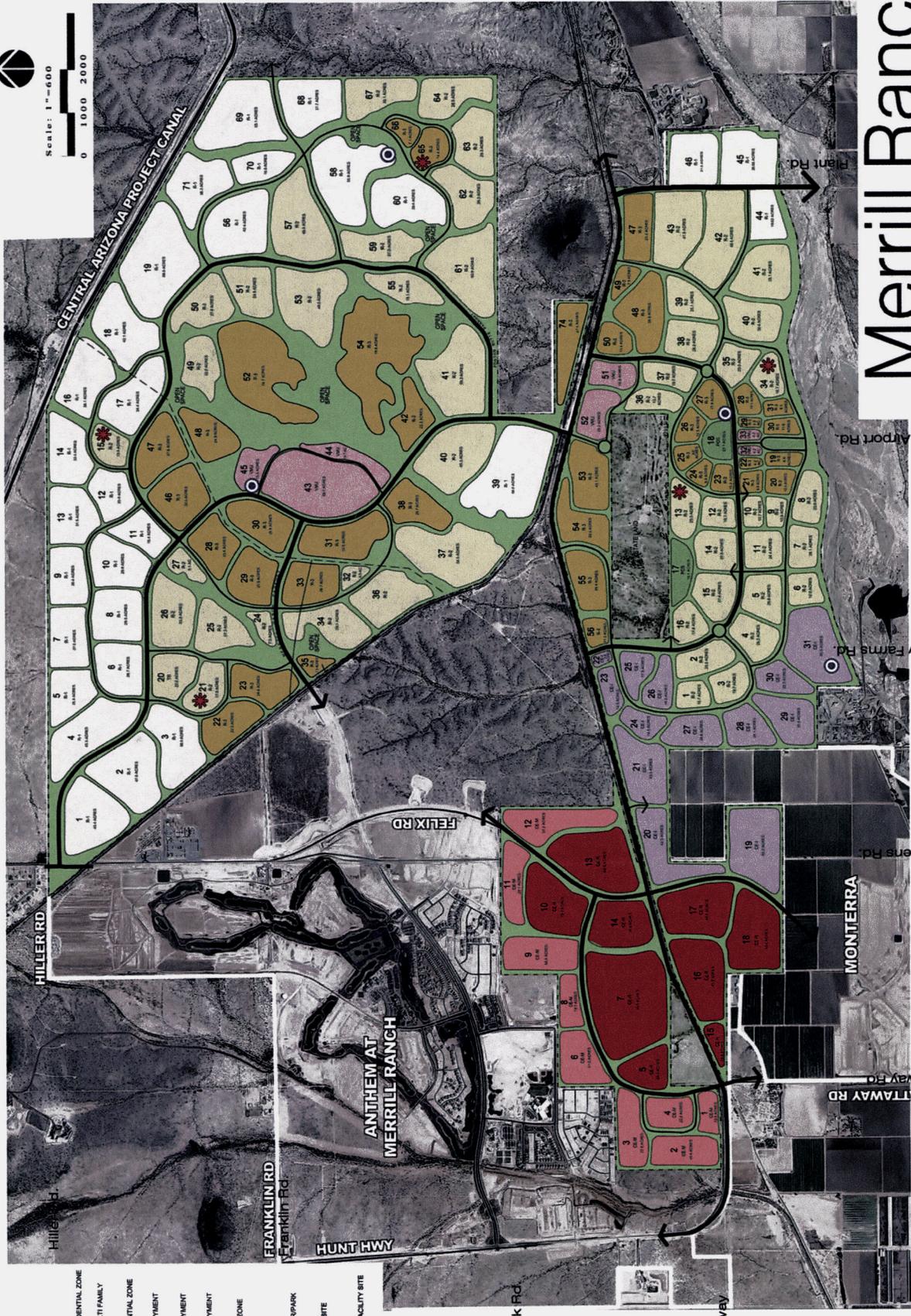


- LEGEND**
- EXISTING ROADWAY
 - PROPOSED ROADWAY
 - PEDESTRIAN PATH
 - PARCEL DESIGNATION ZONING CATEGORY LAND USE (SEE TABLE) NUMBER OF ACRES
 - SCHOOL
 - H.S.
 - M.S.
 - E.S.
 - COMMUNITY CENTER
 - VILLAGE CORE
 - COMMERCIAL
 - OFFICE
 - PUBLIC SERVICES
 - MAJOR INTERSECTION



The **WLB** Group
 Engineering Planning Surveying
 Construction Management
 4444 E. 1st Avenue, Suite 100
 Denver, CO 80215
 Phone: 303.733.1100
 Fax: 303.733.1101
 Website: www.wlbgroup.com

- LEGEND:**
- R-1 SINGLE FAMILY RESIDENTIAL ZONE (LOW DENSITY - L0)
 - R-2 NEIGHBORHOOD MULTI FAMILY (MEDIUM DENSITY - M0)
 - R-3 DOWNTOWN RESIDENTIAL ZONE (HIGH DENSITY - H0)
 - CE-1 COMMERCIAL EMPLOYMENT INDUSTRIAL ZONE
 - CE-M COMMERCIAL EMPLOYMENT MIXED USE ZONE
 - CE-R COMMERCIAL EMPLOYMENT RETAIL ZONE
 - VAU VILLAGE MIXED-USE ZONE
 - OS OPEN SPACE
 - POS RECREATION CENTER/PARK
 - PS POTENTIAL SCHOOL SITE
 - PPS POTENTIAL PUBLIC FACILITY SITE



JACK JOHNSON COMPANY
11x17AIR-LANDUSE.plt 10/31/2006 9:53:30 PM

Merrill Ranch

TOWN OF FLORENCE, ARIZONA
PLANNED UNIT DEVELOPMENT
LAND USE PLAN
JANUARY 26, 2007

Attachment 4

**MUNICIPAL NOTICE OF AN APPLICATION FOR CERTIFICATE OF
CONVENIENCE AND NECESSITY BY JOHNSON UTILITIES COMPANY, L.L.C.**

Johnson Utilities Company, L.L.C. has filed with the Arizona Corporation Commission (“Commission”) an application for authority to provide water service to an area in which records indicate that you are a property owner. The area involved is already within the certificated area granted to Johnson Utilities Company, L.L.C. for wastewater services. If the application is granted, Johnson Utilities Company, L.L.C. would be the exclusive provider of water service to the proposed area. Johnson Utilities Company, L.L.C. will be required by the Commission to provide this service under the rates and charges and terms and conditions established by the Commission. The granting of the application would not necessarily prohibit an individual from providing service to themselves from individually owned facilities on their property. The application is available for inspection during regular business hours at the offices of the Commission in Phoenix at 1200 West Washington Street, and at Johnson Utilities Company, L.L.C., 5230 East Shea Blvd., Suite #200, Scottsdale AZ 85254.

If you have any questions or concerns about this application, have any objections to its approval, or wish to make a statement in support of it, you may contact the Consumer Services Section of the Commission at 1200 West Washington Street, Phoenix AZ 85007 or call 1-800-222-7000.

JOHNSON UTILITIES COMPANY, L.L.C.

5230 East Shea Blvd., Suite #200

Scottsdale AZ 85254

(480) 998-3300

Date of Application: 6 April 2012

Services: Water

Service Area: Sections 14, 15 & 16. T3S, R8E

Commission Docket Number: WS-02987A-12-0136

**MUNICIPAL NOTICE OF AN APPLICATION FOR CERTIFICATE OF
CONVENIENCE AND NECESSITY BY JOHNSON UTILITIES COMPANY, L.L.C.**

Johnson Utilities Company, L.L.C. has filed with the Arizona Corporation Commission (“Commission”) an application for authority to provide water and wastewater service to an area in which records indicate that you are a property owner. If the application is granted, Johnson Utilities Company, L.L.C. would be the exclusive provider of water and wastewater service to the proposed area. Johnson Utilities Company, L.L.C. will be required by the Commission to provide this service under the rates and charges and terms and conditions established by the Commission. The granting of the application would not necessarily prohibit an individual from providing service to themselves from individually owned facilities on their property. The application is available for inspection during regular business hours at the offices of the Commission in Phoenix at 1200 West Washington Street, and at Johnson Utilities Company, L.L.C., 5230 East Shea Blvd., Suite #200, Scottsdale AZ 85254.

If you have any questions or concerns about this application, have any objections to its approval, or wish to make a statement in support of it, you may contact the Consumer Services Section of the Commission at 1200 West Washington Street, Phoenix AZ 85007 or call 1-800-222-7000.

JOHNSON UTILITIES COMPANY, L.L.C.

5230 East Shea Blvd., Suite #200

Scottsdale AZ 85254

(480) 998-3300

Date of Application: 6 April 2012

Services: Water and Wastewater

Service Area: Sections 29, 30, 31 and 32. T4S, R9E

Sections 14, 15 and 16. T3S, R8E

Commission Docket Number: WS-02987A-12-0136

Attachment 5

COMPANY NAME:	JOHNSON UTILITIES, LLC
Name of System:	ADEQ Public Water System Number: 11-128

WATER USE DATA SHEET BY MONTH FOR CALENDAR YEAR 2011

MONTH	NUMBER OF CUSTOMERS	GALLONS SOLD (Thousands)	GALLONS PUMPED (Thousands)	GALLONS PURCHASED (Thousands)
JANUARY	18633	134432	133432	
FEBRUARY	17431	141522	159992	
MARCH	18370	130898	138529	
APRIL	18849	172438	168399	
MAY	19015	195735	248733	
JUNE	19324	225999	238109	
JULY	19218	251609	260910	
AUGUST	19045	278536	298794	
SEPTEMBER	19428	232934	253865	
OCTOBER	19339	208825	223932	
NOVEMBER	19341	204193	225417	
DECEMBER	19542	134418	163312	
TOTALS →		2,310,780	2,513,823	

What is the level of arsenic for each well on your system? See attached mg/l
(If more than one well, please list each separately.)

If system has fire hydrants, what is the fire flow requirement? 1000 GPM for 2 hrs

If system has chlorination treatment, does this treatment system chlorinate continuously?
 Yes () No

Is the Water Utility located in an ADWR Active Management Area (AMA)?
 Yes () No

Does the Company have an ADWR Gallons Per Capita Per Day (GPCPD) requirement?
() Yes No

If yes, provide the GPCPD amount: _____

Note: If you are filing for more than one system, please provide separate data sheets for each system.

COMPANY NAME:	JOHNSON UTILITIES, LLC
Name of System:	ADEQ Public Water System Number: 11-136

WATER USE DATA SHEET BY MONTH FOR CALENDAR YEAR 2011

MONTH	NUMBER OF CUSTOMERS	GALLONS SOLD (Thousands)	GALLONS PUMPED (Thousands)	GALLONS PURCHASED (Thousands)
JANUARY	1744	12247	12761	
FEBRUARY	1635	14345	15718	
MARCH	1720	13532	14549	
APRIL	1731	17682	17605	
MAY	1748	22020	26298	
JUNE	1755	21896	25153	
JULY	1784	26838	28133	
AUGUST	1728	28461	33707	
SEPTEMBER	1819	24925	29966	
OCTOBER	1825	24490	24207	
NOVEMBER	1828	20445	27034	
DECEMBER	1831	16317	16586	
TOTALS →		243,203	272,217	0

What is the level of arsenic for each well on your system? See attached mg/l
 (If more than one well, please list each separately.)

If system has fire hydrants, what is the fire flow requirement? 1000 GPM for 2 hrs

If system has chlorination treatment, does this treatment system chlorinate continuously?
 Yes () No

Is the Water Utility located in an ADWR Active Management Area (AMA)?
 Yes () No

Does the Company have an ADWR Gallons Per Capita Per Day (GPCPD) requirement?
 () Yes No

If yes, provide the GPCPD amount: _____

Note: If you are filing for more than one system, please provide separate data sheets for each system.

Attachment 6

CC & N Legal Description for T3S, R8E

All of the West Half of Section 14;

All of Section 15;

All of the Eastern portion of Section 16 presently within the Johnson Utilities Co.

Sewer C.C. & N.; all in Township 3 South, Range 8 East, being more particularly described as follows:

Beginning at the Southeast Corner of Section 16;

Thence North $37^{\circ} 07'25''$ West along the Sothern Pacific Railroad Right-of-Way, a distance of 6619.56 feet to a point on the North line of Section 16;

Thence North $89^{\circ}59'17''$ East along the North Line of Section 16, 15, and 14, a distance of 11,915.14 feet to the North Quarter Corner of Section 14;

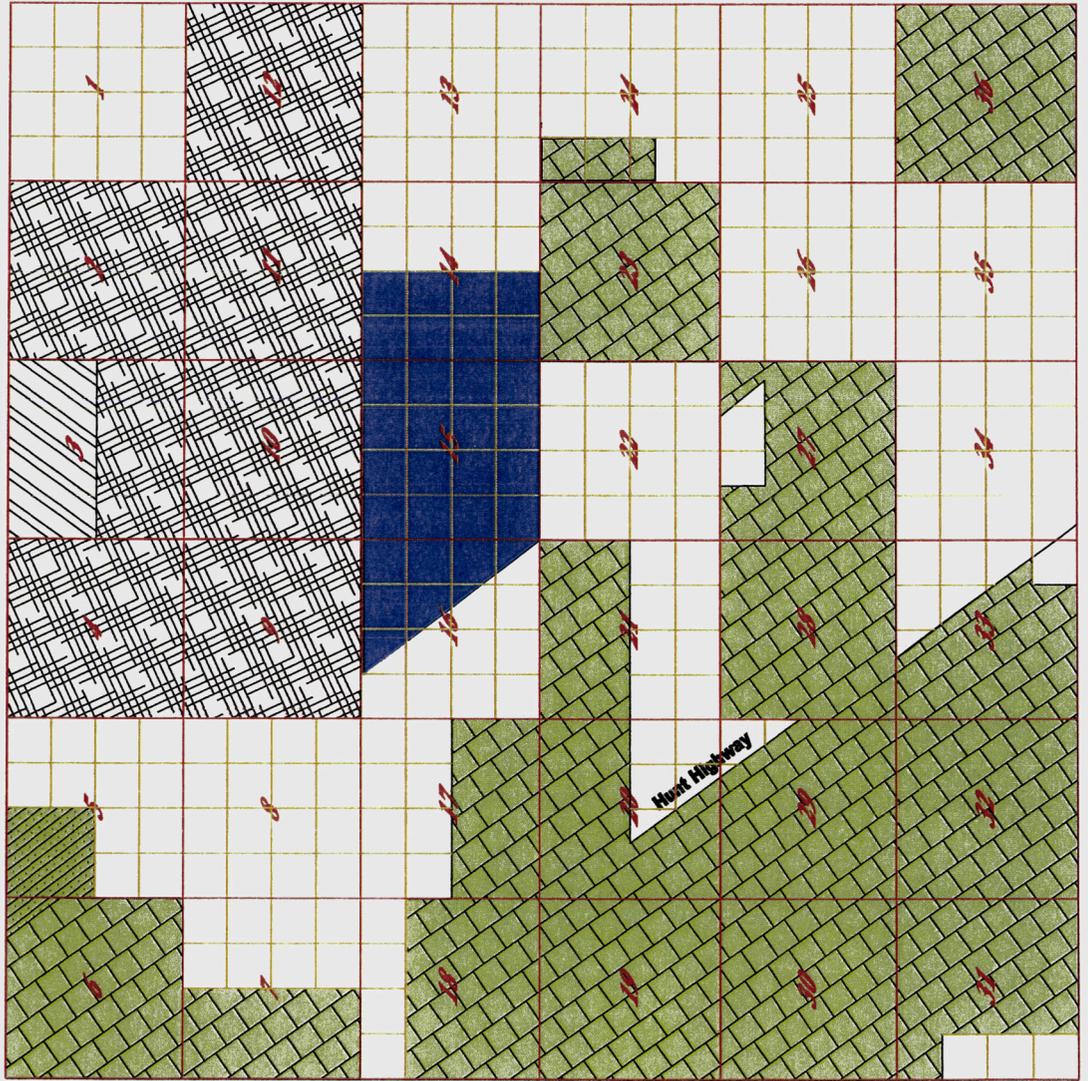
Thence South $00^{\circ}00'00''$ East, along the North-South Mid-Section Line of Section 14 a distance of 5280.00 feet to the South Quarter Corner of Section 14;

Thence South $89^{\circ}59'47''$ West along the South Section Lines of Sections 14, 15, and 16 a stance of 7920.00 feet the Southeast Corner of Section 16 and the TRUE POINT OF BEGINNING;

COUNTY: Pinal

RANGE 8 East

TOWNSHIP 3 South



-  W-2859 (3)
Diversified Water Utilities, Inc.
-  W-2234 (2)
H₂O, Inc.
-  WS-2987 (6)
Johnson Utilities Company
-  W-2425 (2)
Sun Valley Farms Unit VI Water Company
-  Johnson Utilities Company
Water CC&N Requested Area
-  Sewer



Pulte/Southwest Value Partners
Water and Sewer CC&N Request – Boundary Description

A Parcel of Land lying within the Northwest Quarter of Section 29, Section 30, the Northeast Quarter of Section 31 and the Northwest Quarter of Section 32, Township 4 South, Range 9 East, of the Gila and Salt River Meridian, Pinal County, Arizona, more particularly described as follows:

Commencing at the North Quarter Corner of Section 30 (#5 RB w/2" AC LS 21065, Found), said point being the POINT OF BEGINNING from which the Northeast Corner of Section 30 (#5 RB w/2" AC LS 21065) bears South 89 degrees 55 Minutes 26 Seconds East (Basis of Bearing), a distance of 2622.97 feet;

Thence, South 89 Degrees 55 Minutes 26 Seconds East, a distance of 2622.97 feet;

Thence, North 89 Degrees 54 Minutes 12 Seconds East, a distance of 698.65 feet;

Thence Southwesterly, an arc distance of 1126.18 feet along a curve to the Right having a radius of 3932.50 feet and a central angle of 16 Degrees 24 Minutes 30 Seconds (Radial Bearing North 61 Degrees 52 Minutes 32 Seconds West);

Thence, South 44 Degrees 31 Minutes 58 Seconds West, a distance of 550.46 feet;

Thence Southerly, an arc distance of 1983.37 feet along a curve to the Left having a radius of 1917.50 feet and a central angle of 59 Degrees 15 Minutes 50 Seconds (Radial Bearing South 45 Degrees 28 Minutes 02 Seconds East);

Thence, South 14 Degrees 43 Minutes 53 Seconds East, a distance of 375.12 feet;

Thence, North 75 Degrees 16 Minutes 42 Seconds East, a distance of 769.90 feet;

Thence, South 00 Degrees 00 Minutes 01 Seconds East, a distance of 1989.42 feet;

Thence, North 89 Degrees 52 Minutes 02 Seconds East, a distance of 1310.57 feet;

Thence, South 00 Degrees 25 Minutes 32 Seconds East, a distance of 1320.60 feet;

Thence, South 89 Degrees 52 Minutes 20 Seconds West, a distance of 1310.49 feet;

Thence, North 89 Degrees 58 Minutes 36 Seconds West, a distance of 2612.18 feet;

Thence, North 00 Degrees 23 Minutes 06 Seconds West, a distance of 1321.04 feet;

Thence, North 89 Degrees 57 Minutes 22 Seconds West, a distance of 2620.60 feet;

Thence, North 00 Degrees 25 Minutes 48 Seconds West, a distance of 75.00 feet;

Thence, North 64 Degrees 43 Minutes 42 Seconds East, a distance of 2699.25 feet;



Thence, North 74 Degrees 31 Minutes 20 Seconds East, a distance of 344.72 feet;

Thence, North 89 Degrees 57 Minutes 08 Seconds West, a distance of 2782.50 feet;

Thence, North 00 Degrees 25 Minutes 48 Seconds West, a distance of 1321.69 feet;

Thence, North 00 Degrees 25 Minutes 29 Seconds West, a distance of 1322.48 feet;

Thence South 89 Degrees 55 Minutes 50 Seconds East, a distance of 2641.28 feet;

Thence North 00 Degrees 07 Minutes 47 Seconds West, a distance of 1321.63 feet to the POINT OF BEGINNING.

Containing 607.41 acres, more or less.

path: R:\000-SWPP\05_Exhibits\ file name: 742 AMR-SWPP Legal Desc 3_0522212.dwg | plot date: May 22, 2012 | plotted by: saunders

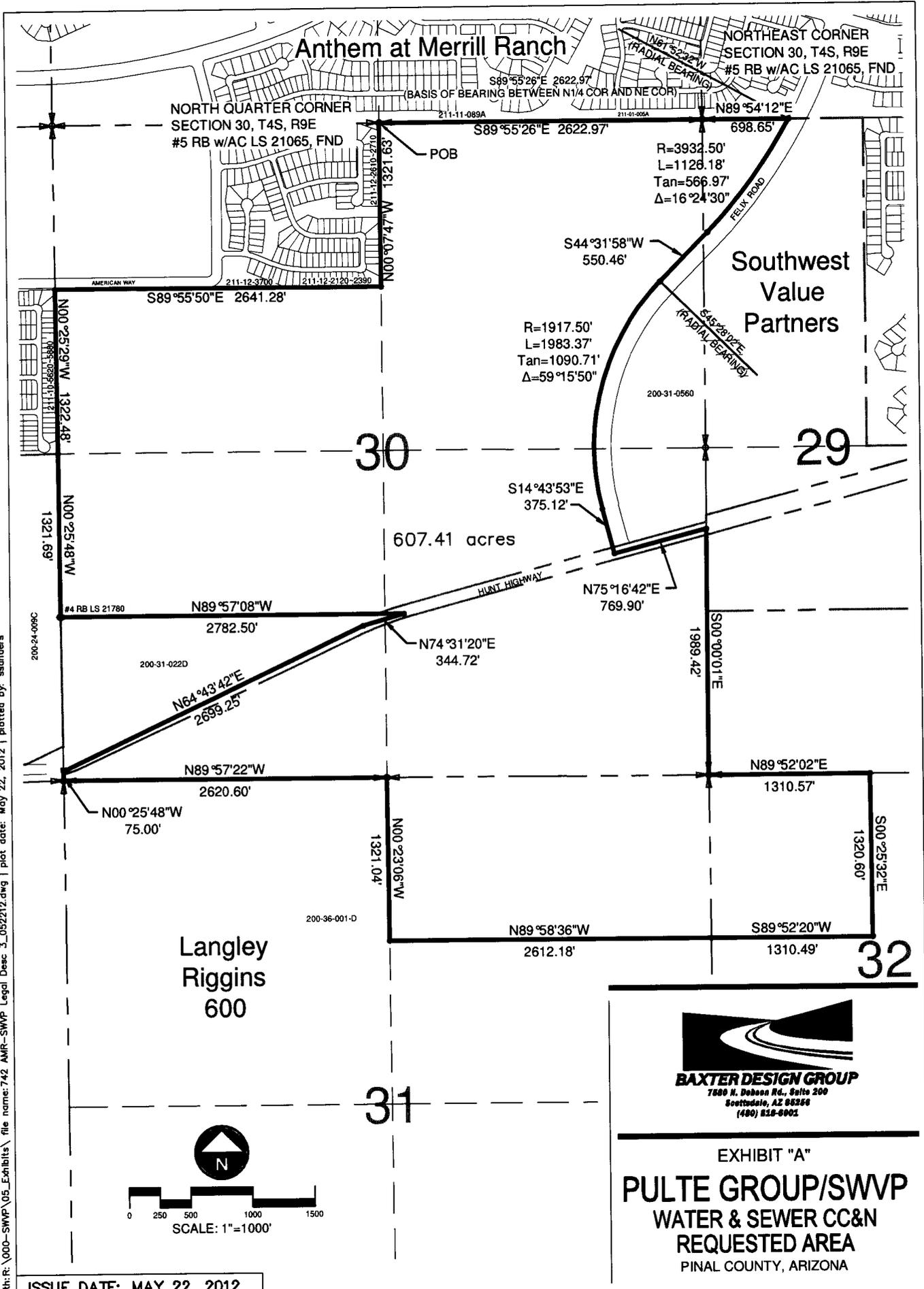


EXHIBIT "A"
PULTE GROUP/SWPP
 WATER & SEWER CC&N
 REQUESTED AREA
 PINAL COUNTY, ARIZONA

ISSUE DATE: MAY 22, 2012

COUNTY: Pinal

RANGE 9 East

TOWNSHIP 4 South

