

F:\980065\8071BRB\NEW\8071WATERCOVER.dwg Med Feb 13 09:26:09 2002 PLOTTED BY MIKE

SCANNED BY
MESA REPRO

CONSTRUCTION PLANS FOR *RIO BRAVO SECTOR PLAN* *2WR WATERLINE IMPROVEMENTS* ALBUQUERQUE, NEW MEXICO

INDEX TO DRAWINGS

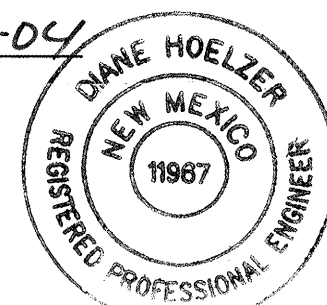
SHEET NO.	SHEET
1	TITLE SHEET
2	MAP KEY
3- 8 8A,8B	UTILITY IMPROVEMENTS PRV STATION DETAILS

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY OF ALBUQUERQUE
DATE: 10/16/04

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Diane Hoelzer, NMPE 11967, of the firm Mark Goodwin & Associates, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by ALS, Inc., NMPS number 7719.

Diane Hoelzer 5-19-04



26 6795-81 0104

DRB NO.

N/A

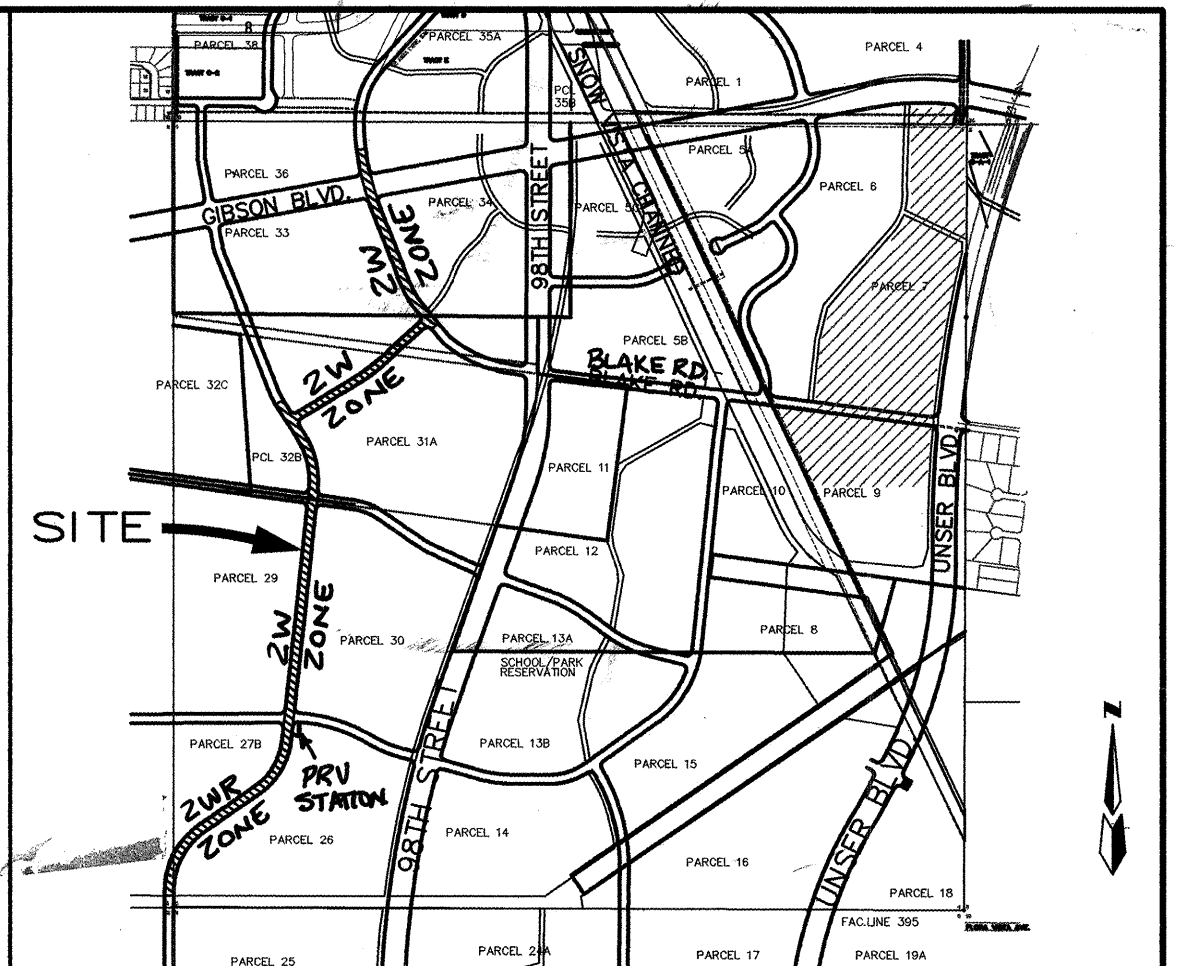
CAUTION:

NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. ALL EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE APPROXIMATE LOCATION ONLY. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATIONS TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
P. O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE	APPROVED FOR CONSTRUCTION			
	DRC CHAIRMAN	<u>[Signature]</u>	9-04-03	<u>[Signature]</u> 9/18/03 CITY ENGINEER DATE			
	TRANSPORTATION	<u>[Signature]</u>	4-02-02				
	WATER/WASTEWATER	<u>[Signature]</u>	4-02-02				
	HYDROLOGY	<u>[Signature]</u>	4-02-02				
	CIP	<u>[Signature]</u>	9-04-03				
CONSTR. MGMT.		<u>[Signature]</u>	9-04-03	SHEET OF 1 '8			
CONSTR. COORD.		<u>[Signature]</u>	9-04-03				
CITY PROJECT NO.			679581				

Rev. 7/22/03



VICINITY MAP ZONE ATLAS N-9 & P-9

SCALE: NONE

GENERAL NOTES

NOTICE TO CONTRACTORS

- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY.
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #6.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- FIVE (5) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION COORDINATION ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- ALL WORK AFFECTING ARTERIAL ROADWAYS REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO THE SAME LOCATION AS WAS EXISTING, OR AS INDICATED BY THIS PLAN SET.
- CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT TO COVER THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL RECORD DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAVE BEEN RECORDED.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALBUQUERQUE WATER SYSTEMS DIVISION (857-8200) SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING PUBLIC WATER OR SEWER UTILITIES. EXISTING VALVES TO BE OPERATED BY CITY PERSONNEL ONLY. CONTRACTOR SHALL CONTACT THE WATER SYSTEMS DIVISION (857-8200) SEVEN (7) WORKING DAYS PRIOR TO NEEDING VALVES TURNED ON OR OFF.
- FOR STORM DRAIN CONSTRUCTION, RCP JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE BY CITY.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☒ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE ENGINEER.
- ☒ SIDEWALK AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☐ IF CURB IS DEPRESSIONED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

1904



A circular professional engineer seal for Diane Hoelzer, New Mexico, with the number 11967. The seal is stamped over the bottom of the first page.

1. All 12" waterline was constructed using C-900 series PVC pipe and all 18" and 20" waterline was constructed using Ductile Iron pipe.

60' PUBLIC ROADWAY, WATERLINE
AND SANITARY SEWER EASEMENT
RECORDED BY BULK LAND PLAT IN
BERNALILLO COUNTY CLERK'S OFFICE ON
JUNE 5, 2002, IN BOOK 2002C, PAGE 197.

SCALE: 1" = +300'

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
26	6	7	9	5	.	8	1	0	2	0	4			

98071BRB/NEW/8071-WATEROVERALL-REV/05-06-02/ACH MJR

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: ***RIO BRAVO SECTOR PLAN
2WR WATERLINE IMPROVEMENTS
MAP KEY***

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
679581	N-9/P-9	2	8

SURVEY INFORMATION			BENCH MARKS		AS BUILT INFORMATION						
NO.	FIELD NOTES		STATION	DESCRIPTION	CONTRACTOR	SUNDANCE					
	DATE	BY				WORK STARTED BY	DATED	WORK STOPPED BY	DATED	WORK RESUMED BY	DATED
			"TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE R.O.W. OF A PLAINS ELECTRIC CO-OP TRANSMISSION LINE, TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW, GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW MISTA BLVD., THEN SOUTHEAST ALONG SNOW VISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO Pylon NUMBERED "52". STATION IS JUST EAST OF THIS POINT. X = 354,899.45, Y = 1,471,822.67, G-G = 0.9986792(NAD 1927) "HIS" LOCATED ON SW COR. OF 98th & SNOW. NAD 20. E1 - 5417.87								

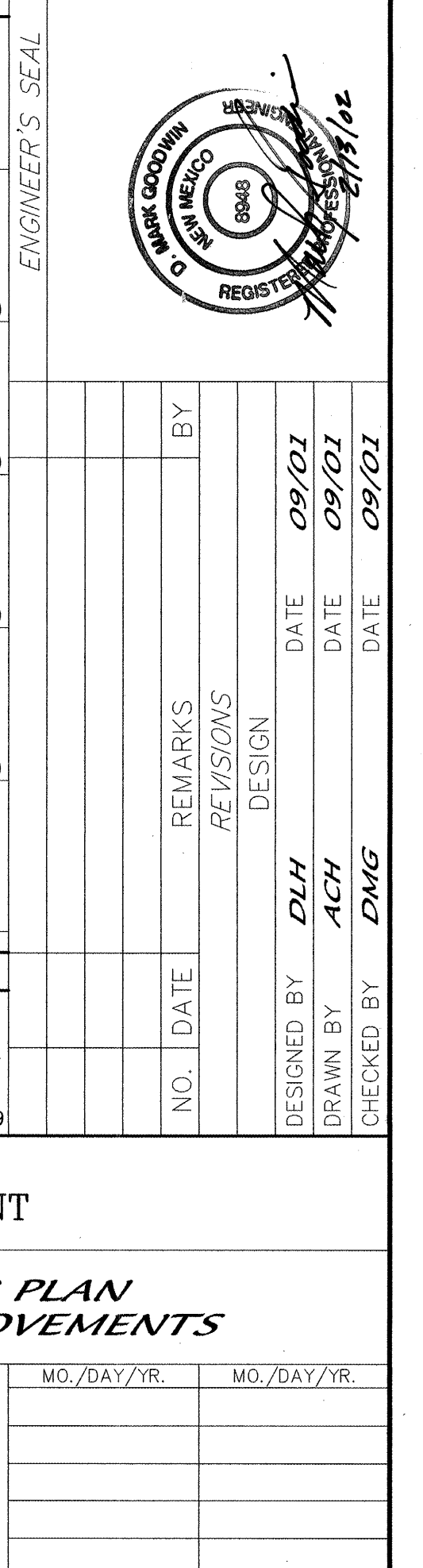
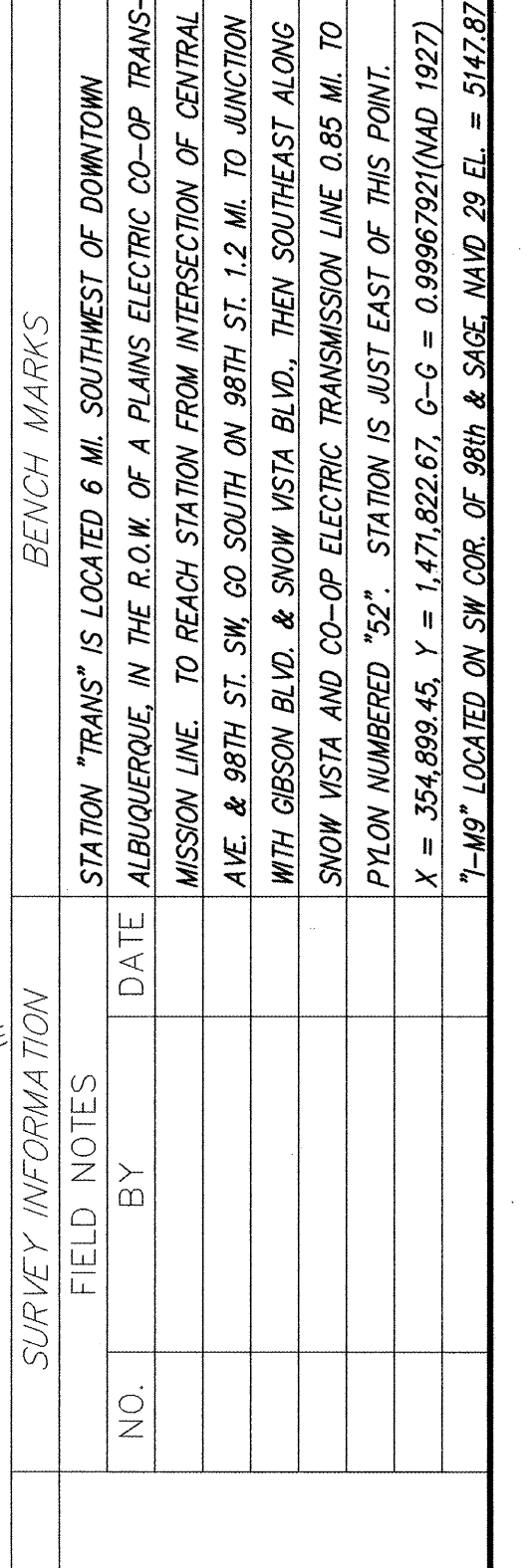
[illegible]

UNIT PLAN MOVEMENTS	
MO./DAY/YR.	MO./DAY/YR.
O.	SHEET OF
2-9	2 8

- RESTRAINED JOINT LENGTH FOR BENDS,
-
- VALVES, DEAD ENDS (FT.)

LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND. RESTRAIN BRANCH AT FITTING ONLY
MINIMUM ATTACHED PIPE LENGTH, RUN SIDE OF TEE: 10.00 FEET.

AS - BUILT INFORMATION	
CONTRACTOR	SUNDANCE
WORK	DATE 10/01/00
STAGED BY	ALS
ACCEPTANCE BY	DATE 5/20/04
FIELD VERIFICATION BY	DATE 5/20/04
CORRECTED BY	DATE 5/20/04
MICRO-FILM INFORMATION	
RECORDED BY	DATE
<i>Mr. CHA Inspector:</i> <i>Mike Strickler</i>	



CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
679581	N-9/P-9	3	8

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Diane Hoeller, NMPE 11967, of the firm, Mark Goodwin & Associates, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by ALS, Inc., NMPS number 7719.

Diane Hoeller 4-30-05



NOTE: ROADWAY IMPROVEMENTS SHOWN FOR INFORMATION ONLY.

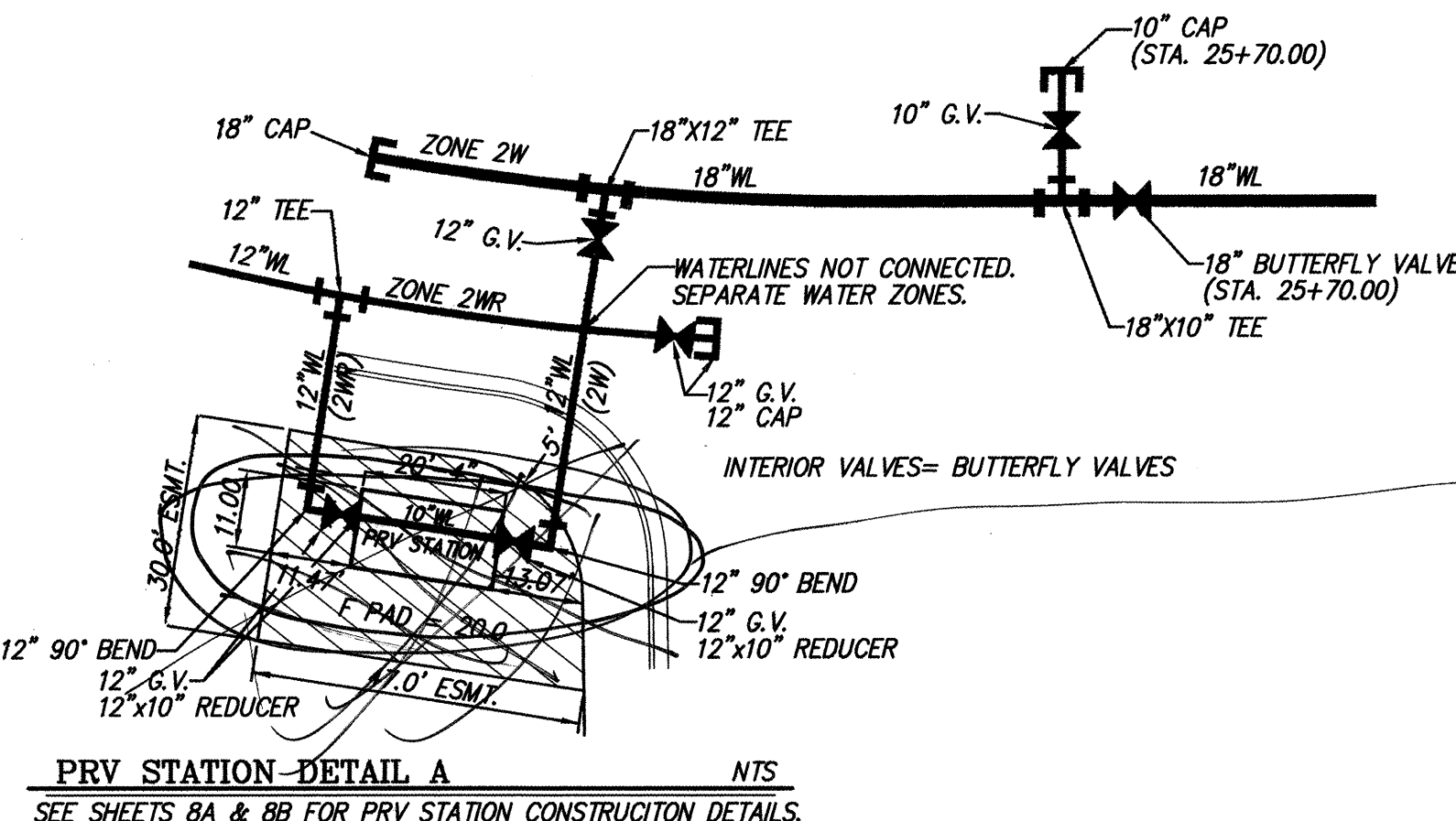
NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

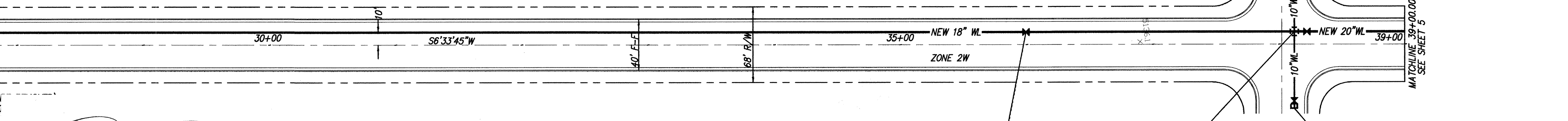
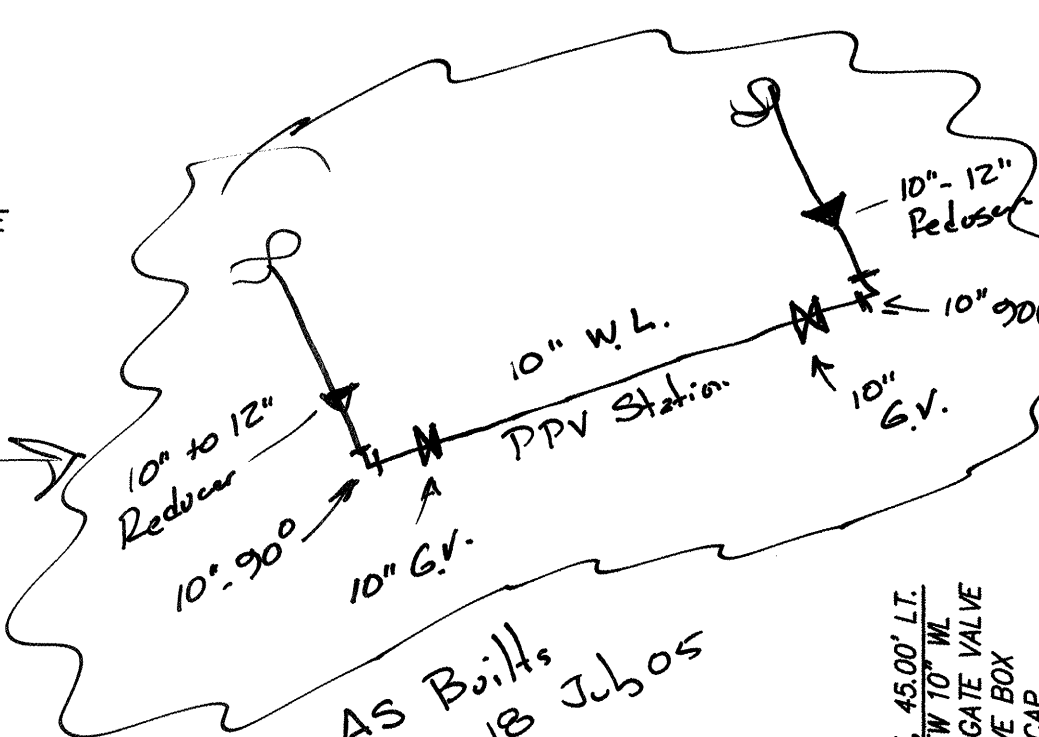
RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)					
PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
12"	30'	12'	6'	3'	85'
18"	40'	19'	9'	5'	98'
20"	43'	21'	12'	7'	102'

LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND. RESTRAIN BRANCH AT FITTING ONLY MINIMUM ATTACHED PIPE LENGTH, RUN SIDE OF TEE: 10.00 FEET.

RESTRAINED JOINT LENGTH FOR TEES (FT.)		
PIPE SIZE	RUN	BRANCH
12"x12"x12"	18'	3'



PRV STATION-DETAIL A NTS
SEE SHEETS 8A & 8B FOR PRV STATION CONSTRUCTION DETAILS.



NOTE: ROADWAY IMPROVEMENTS SHOWN FOR INFORMATION ONLY.

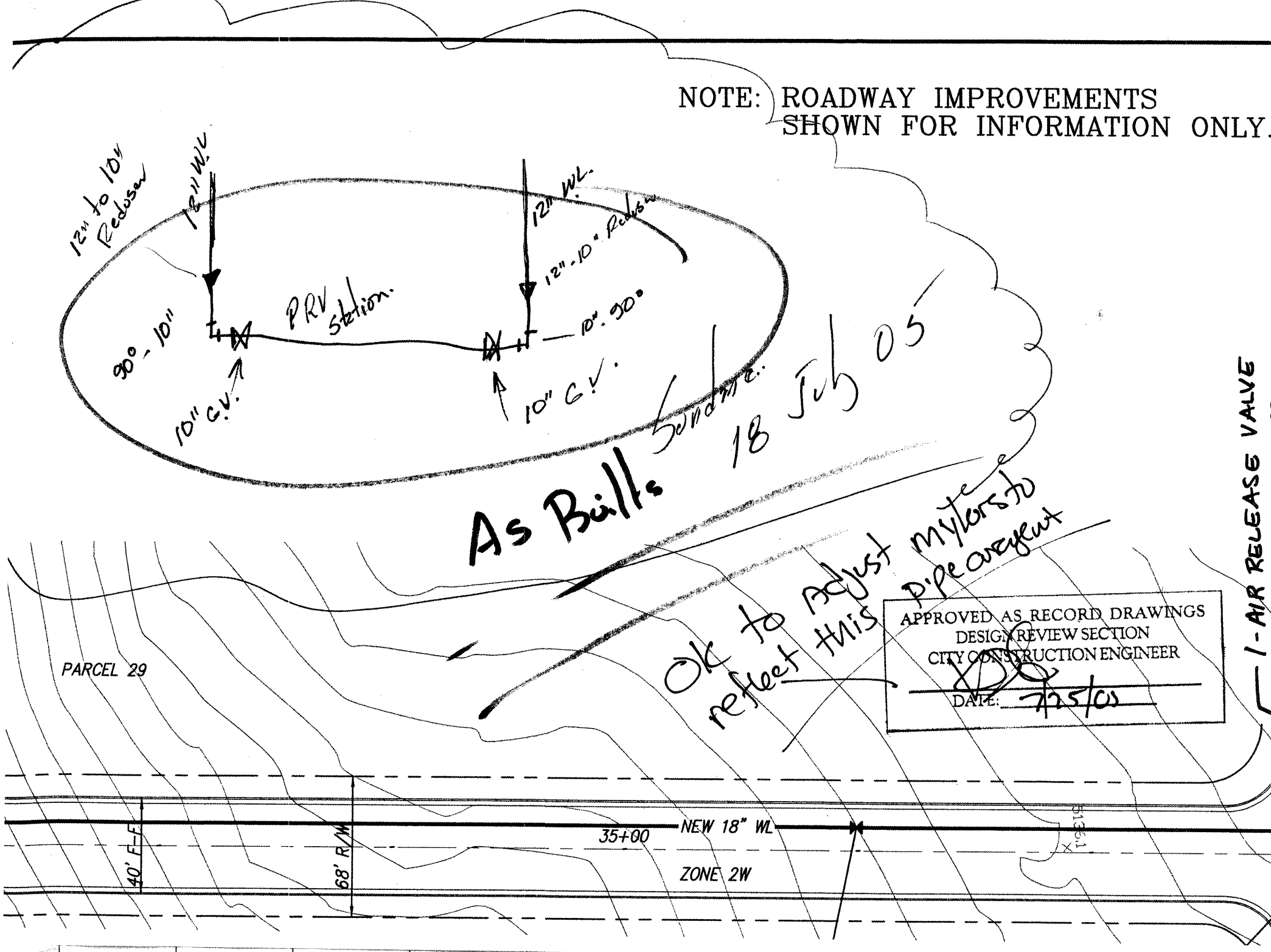
NOTES

1. ALL STATIONING IS CENTERLINE

RESTRAINED JOINT LEN VALVES, DEAD EN			
PIPE SIZE	90°	45°	
12"	30'	12'	
18"	40'	19'	
20"	43'	21'	

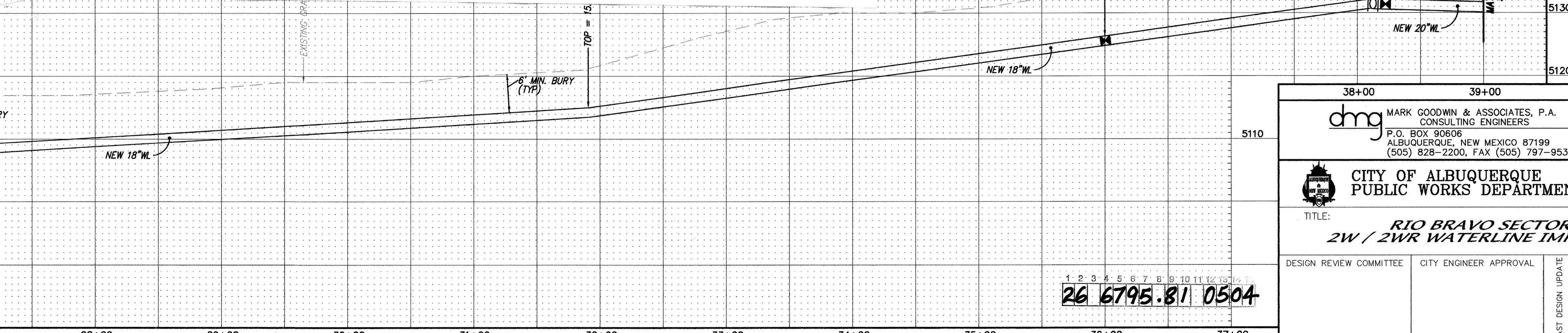
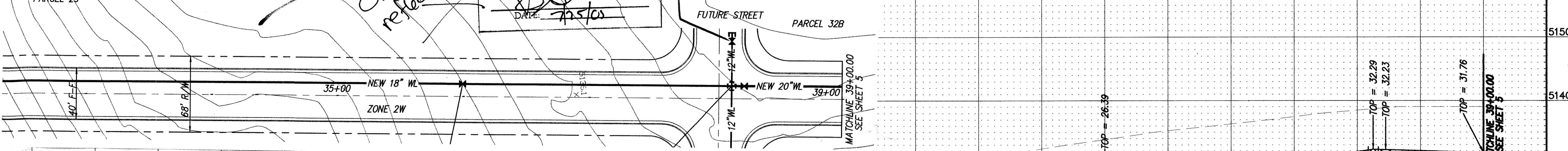
LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND. RESTRAIN BRANCH AT FITTING ONLY MINIMUM ATTACHED PIPE LENGTH OF TEE: 10.00 FEET.

RESTRAINED JOINT LENG	
PIPE SIZE	RUN
12"x12"x12"	18'



APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER
DATE: 7/25/05

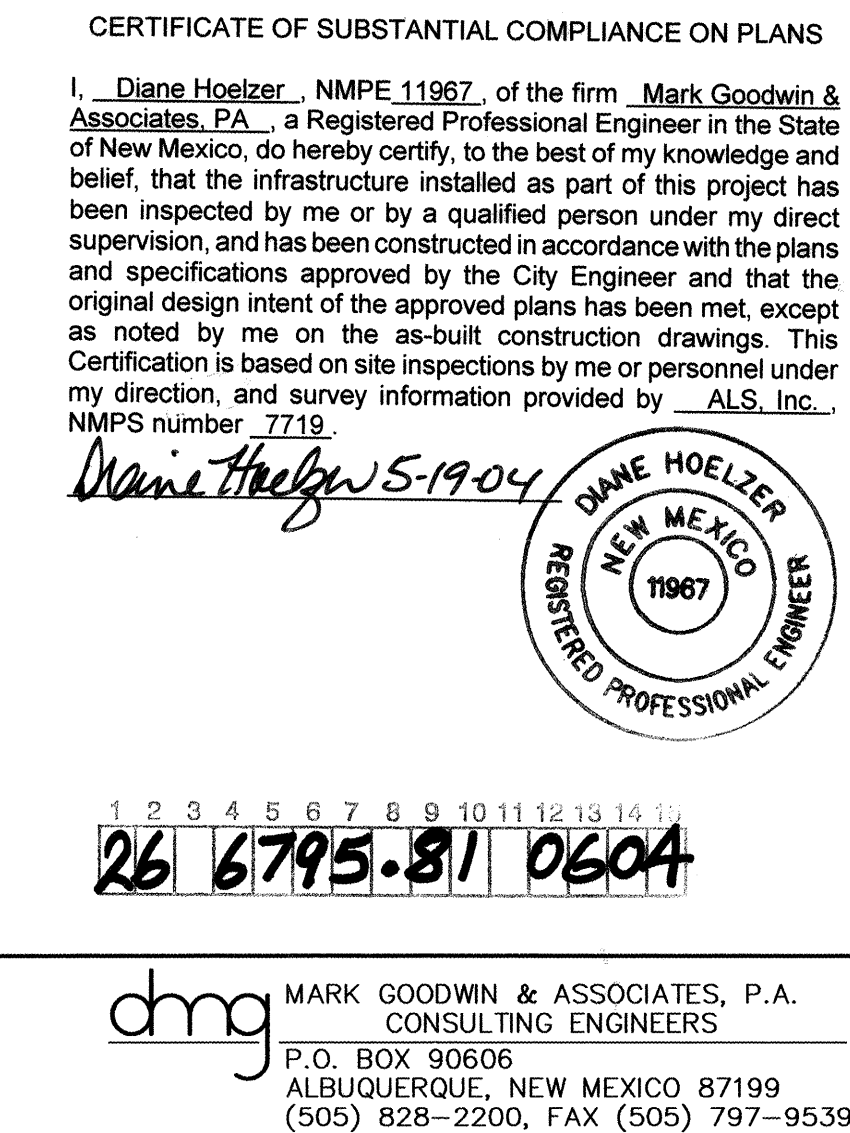
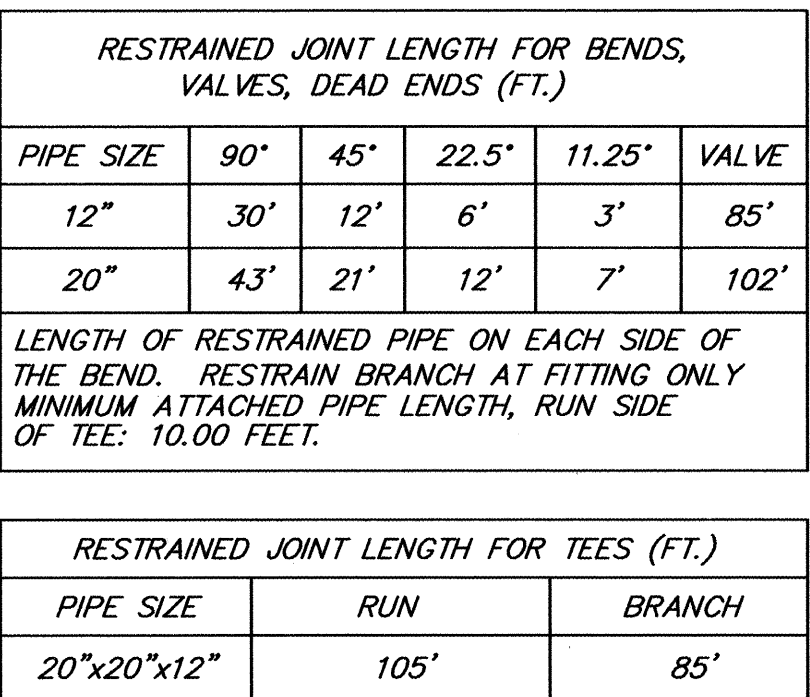
1- AIR RELEASE VALVE PER STD DWG 2350.



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT		TITLE: RIO BRAVO SECTOR PLAN 2W / 2WR WATERLINE IMPROVEMENTS	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
DESIGNED BY DLH	DATE 09/01	REVISIONS	
DRAWN BY ACH	DATE 09/01	NO.	DATE
CHECKED BY DMG	DATE 09/01		
CITY PROJECT NO. 679581		SHEET 4R OF 8	

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.
2. All 12" waterline was constructed using C-900 series PVC pipe and all 18" and 20" waterline was constructed using Ductile Iron pipe.





CITY OF ALBUQUERQUE

PUBLIC WORKS DEPARTMENT

TITLE:

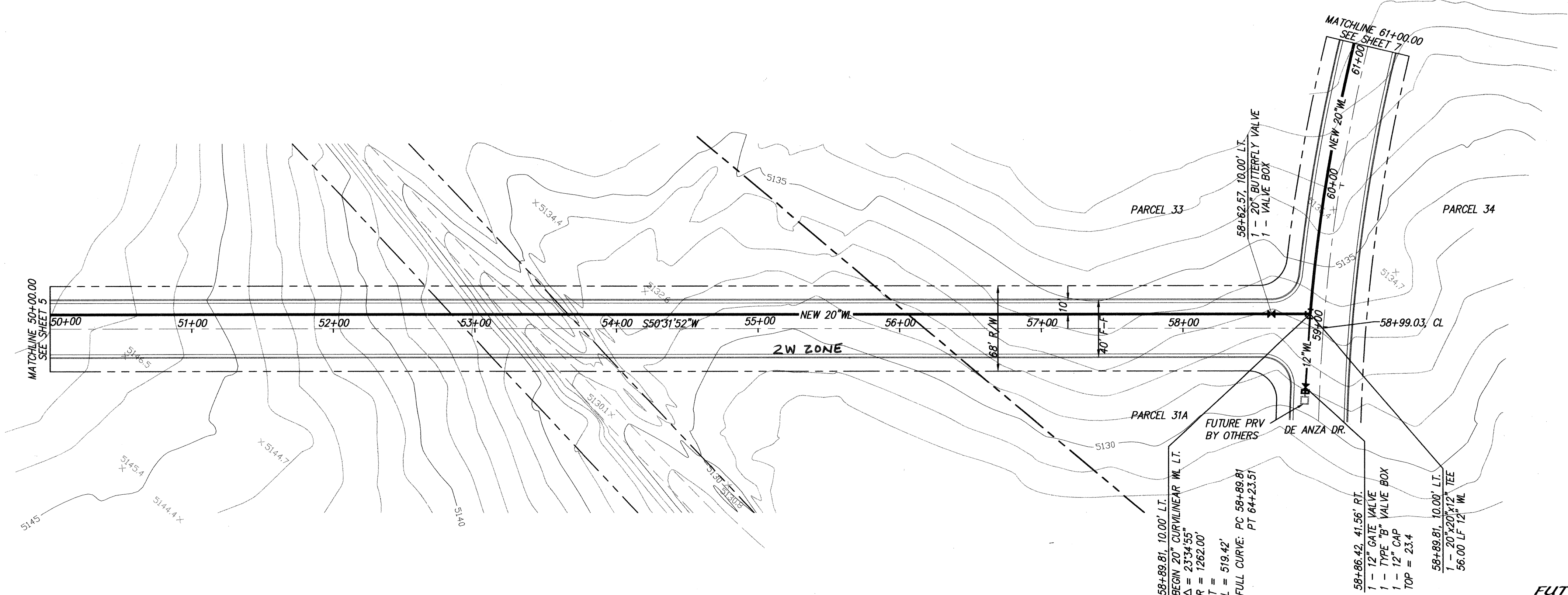
RIO BRAVO SECTOR PLAN
2WR WATERLINE IMPROVEMENTS

DESIGN REVIEW COMMITTEE SEP - 4 2003 DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL APPROVED SEP 18 2003 CITY ENGINEER		LAST DESIGN UPDATE MO./DAY/YR. MO./DAY/YR. MO./DAY/YR. MO./DAY/YR. MO./DAY/YR.	
CITY PROJECT NO. 679581		ZONE MAP NO. N-9/P-9		SHEET 5 OF 8	

SURVEY INFORMATION		FIELD NOTES		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE					
				STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE R.O.W. OF A PLAINS ELECTRIC CO-OP TRANSMISSION LINE. TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW. GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW VISTA BLVD., THEN SOUTHEAST ALONG SNOW VISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO Pylon NUMBERED "52". STATION IS JUST EAST OF THIS POINT.	CONTRACTOR	SUNDANCE	
					WORK INSPECTED BY	DATE	
					INSPECTOR'S ACCEPTANCE BY	DATE	
					FIELD VERIFICATION BY	DATE	
					DRAWINGS CORRELATED BY	DATE	
					"MICRO-FILM" INFORMATION		
					RECORDED BY	DATE	
					NO.		

[illegible]

SCANNED BY
MESA REPRO



NOTE: ROADWAY IMPROVEMENTS
SHOWN FOR INFORMATION ONLY.

- NOTES**
1. ALL STATIONING IS CENTERLINE STATIONING.
 2. All 12" waterline was constructed using C-900 series PVC pipe and all 18" and 20" waterline was constructed using Ductile Iron pipe.

RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)

PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
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LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND. RESTRAIN BRANCH AT FITTING ONLY MINIMUM ATTACHED PIPE LENGTH, RUN SIDE OF TEE: 10.00 FEET.

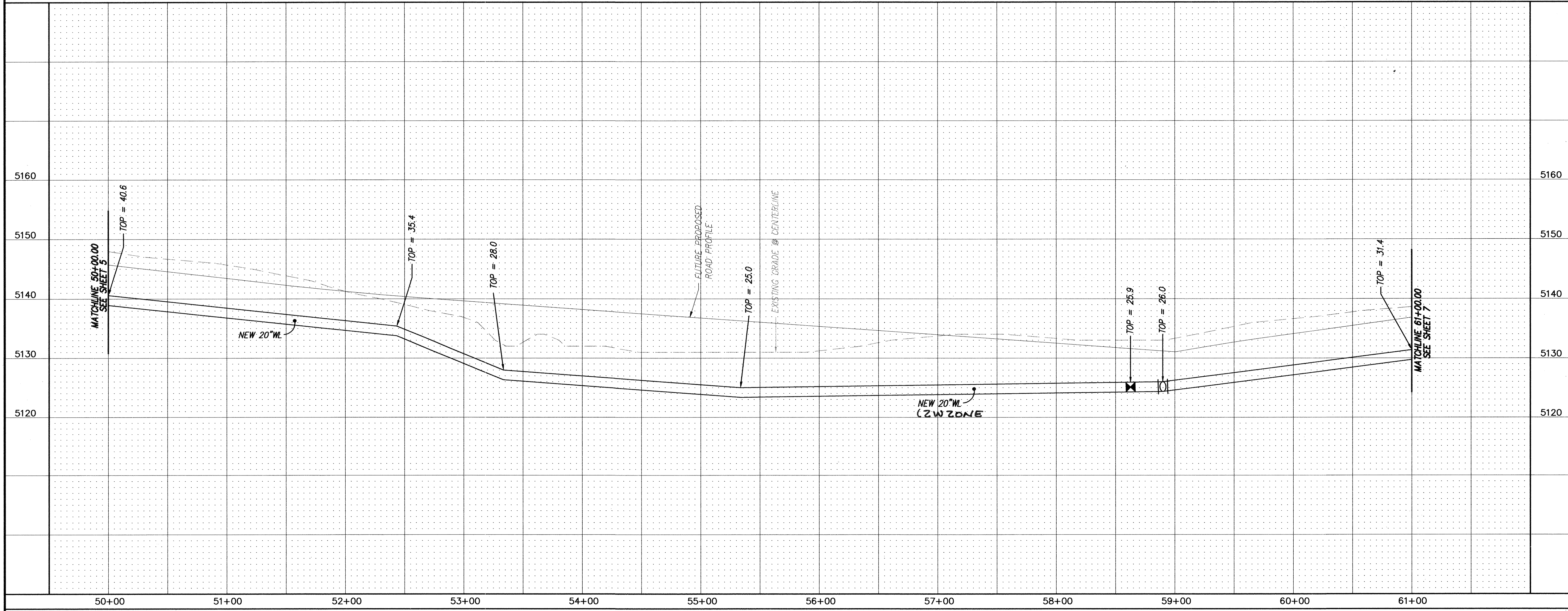
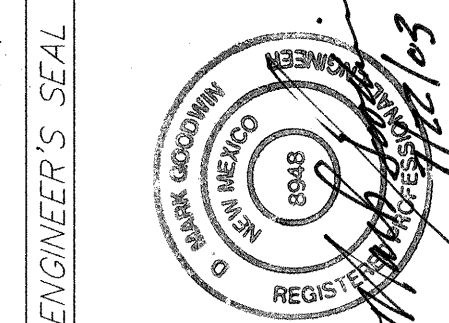
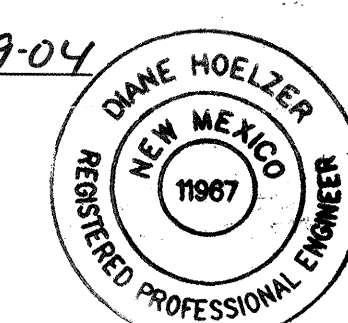
RESTRAINED JOINT LENGTH FOR TEES (FT.)

PIPE SIZE	RUN	BRANCH
20"x20"x12"	105'	85'

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I, Diane Hoelzer, NMPE 11967, of the firm Mark Goodwin & Associates, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by ALS, Inc., NMPS number 7719.

Diane Hoelzer 5-19-04



26 6795-81 0604

dmg MARK GOODWIN & ASSOCIATES, P.A.
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: **RIO BRAVO SECTOR PLAN**
2WR WATERLINE IMPROVEMENTS

DESIGN REVIEW COMMITTEE APPROVE SEP - 1 2003	CITY ENGINEER APPROVAL APPROVE SEP 1 6 2003 CITY ENGINEER	MO./DAY/YR. LAST DESIGN UPDATE	MO./DAY/YR.
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CITY PROJECT NO. **679581** ZONE MAP NO. **N-9/P-9** SHEET OF **6 8**

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	STATION	TRANS	NO.	DATE	NO.	DATE
SUNDANCE	10/03	ALBUQUERQUE, IN THE R.O.W. OF A PLANS ELECTRIC CO-OP TRANS-MISSION LINE, TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW VISTA BLVD., THEN SOUTHEAST ALONG SNOW VISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO Pylon NUMBERED "52". STATION IS JUST EAST OF THIS POINT.	ALS	DMG	DMG	DMG	DMG
WORKED BY	DATE	REVISIONS	DESIGN	NO. <td>DATE</td> <td>NO.<td>DATE</td></td>	DATE	NO. <td>DATE</td>	DATE
ALS	10/03	DMG	DMG	DMG	DMG	DMG	DMG
REVISIONS	DATE	REVISIONS	DATE	REVISIONS	DATE	REVISIONS	DATE
DMG	10/03	DMG	10/03	DMG	10/03	DMG	10/03
REVISIONS	DATE	REVISIONS	DATE	REVISIONS	DATE	REVISIONS	DATE
DMG	10/03	DMG	10/03	DMG	10/03	DMG	10/03
REVISIONS	DATE	REVISIONS	DATE	REVISIONS	DATE	REVISIONS	DATE
DMG	10/03	DMG	10/03	DMG	10/03	DMG	10/03
REVISIONS	DATE	REVISIONS	DATE	REVISIONS	DATE	REVISIONS	DATE
DMG	10/03	DMG	10/03	DMG	10/03	DMG	10/03
REVISIONS	DATE	REVISIONS	DATE	REVISIONS	DATE	REVISIONS	DATE
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REVISIONS	DATE	REVISIONS	DATE	REVISIONS	DATE	REVISIONS	DATE
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SCANNED BY
MESA REPRO

NOTE: ROADWAY IMPROVEMENTS
SHOWN FOR INFORMATION ONLY.

NOTES

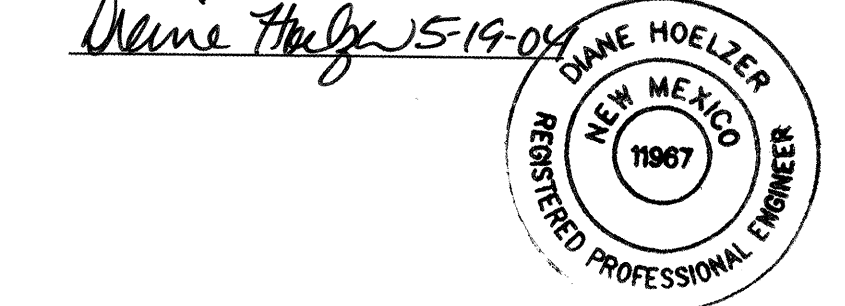
1. ALL STATIONING IS CENTERLINE STATIONING.
2. All 12" waterline was constructed using C-900 series PVC pipe and all 18" and 20" waterline was constructed using Ductile Iron pipe.

RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)					
PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
12"	30'	12'	6'	3'	85'
20"	43'	21'	12'	7'	102'

LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND. RESTRAIN BRANCH AT FITTING ONLY MINIMUM ATTACHED PIPE LENGTH, RUN SIDE OF TEE: 10.00 FEET.

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Diane Hoelzer, NMPE 11967, of the firm Mark Goodwin & Associates, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by ALS, Inc. NMPS number 7719.



VALVE SHUT-OFF PLAN

1. CONTRACTOR WILL CONTACT WATER SYSTEMS AT 857-8200 3 DAYS PRIOR TO NECESSARY SHUT-OFF.
2. VALVES SHALL ONLY BE OPERATED BY CITY WATER EMPLOYEES.
3. CLOSE 30" BUTTERFLY VALVE AT CAP

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 6795.81 0704

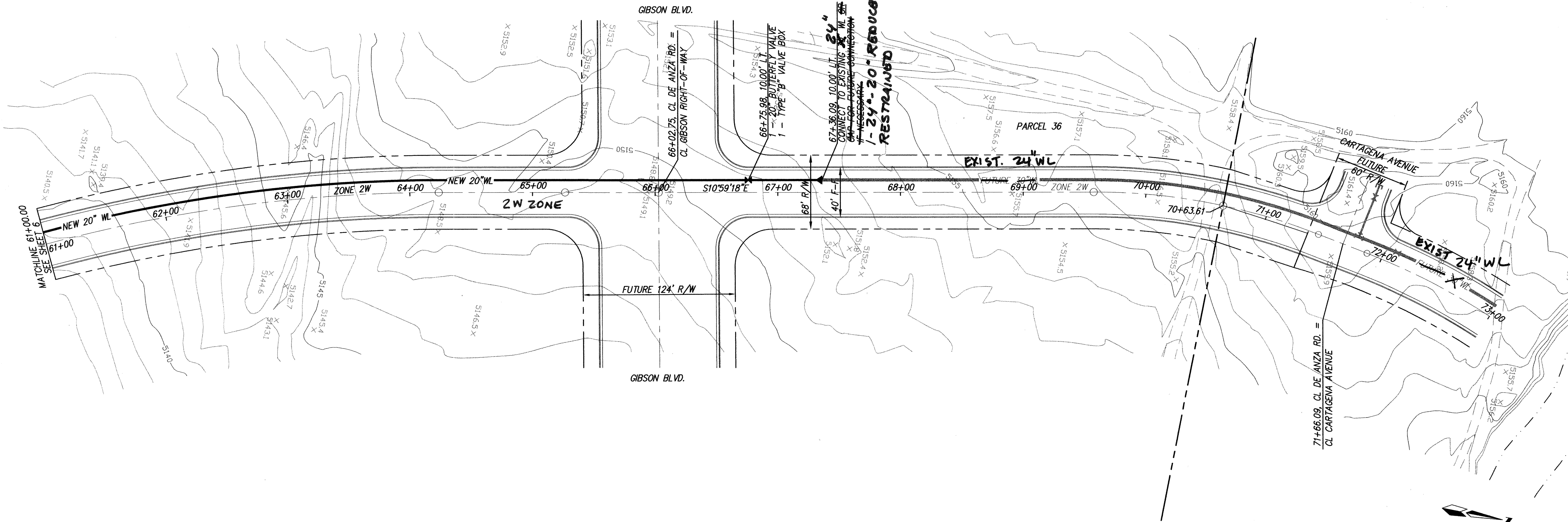
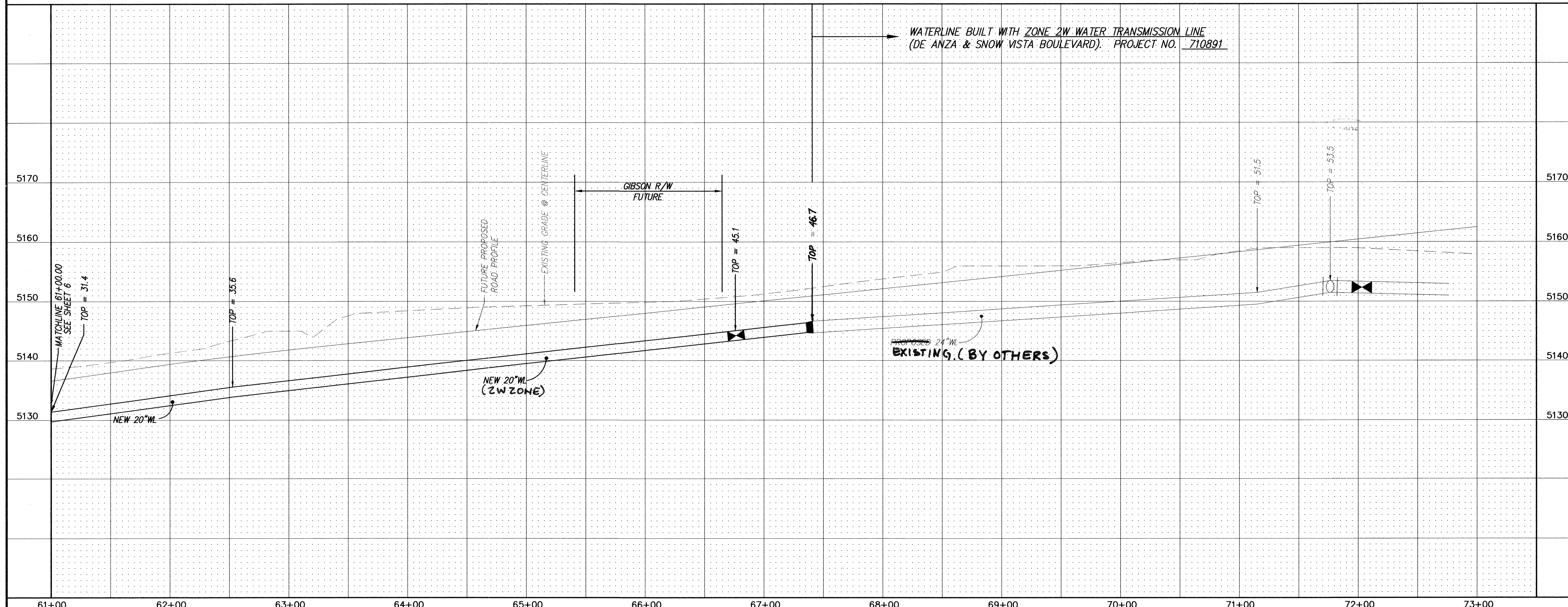
dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT**

TITLE: **RIO BRAVO SECTOR PLAN
2W / 2WR WATERLINE IMPROVEMENTS**

DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL		MO./DAY/YR.	
APPROVED	SEP - 6 2003	APPROVED	SEP 16 2003		
DESIGN REVIEW COMMITTEE		CITY ENGINEER			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
8071BRB/NEW/8071-WPP5AA/07-22-03/ACH MJR NHE	679581	N-9/P-9	7 8



DE ANZA DRIVE (FUTURE)
STA. 61+00.00 TO STA. 73+00.00
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

SCANNED BY
MESA REPRO

PRV VAULT DIMENSION AND REINFORCING SCHEDULE

STANDARD PRV VAULT DIMENSIONS												WALL REINFORCING									
PIPE SIZE		STANDARD PRV NO METER, NO BYPASS		STANDARD PRV NO METER, W/BYPASS		WITH PROPELLER METER AND NO BYPASS		WITH PROPELLER METER AND BYPASS		WITH MAGNETIC FLOW METER AND BYPASS		WALL THICKNESS		TOP THICKNESS		WITHOUT BYPASS			WITH BYPASS		
NO		NO		NO		NO		NO		NO		L(t)		T(t)		L"		W"		L"	
W"		W"		W"		W"		W"		W"		W(t)		T(t)		a		a		a	
(IN)		L"		W"		L"		W"		L"		W(t)		T(t)		a		a		a	
6	10'-6"	5'-6"	11'-8"	8'-0"	10'-6"	5'-6"	14'-6"	8'-0"	15'-8"	8'-6"	1'-0"	1'-0"	1'-0"	0'-8"	#6 @ 12"	TYPICAL	TYPICAL	#5 @ 6"	TYPICAL	#6 @ 12"	
8	10'-6"	5'-8"	12'-0"	8'-2"	10'-6"	5'-8"	15'-4"	8'-2"	16'-2"	8'-8"	1'-0"	1'-0"	1'-0"	0'-8"	#6 @ 12"	TYPICAL	TYPICAL	#5 @ 6"	TYPICAL	#6 @ 12"	
10	10'-6"	5'-10"	13'-0"	8'-4"	11'-4"	5'-10"	17'-4"	8'-4"	17'-4"	8'-10"	1'-0"	1'-0"	1'-0"	0'-8"	#6 @ 12"	#6 @ 12"	TYPICAL	#5 @ 6"	#6 @ 12"	#6 @ 12"	
12	10'-6"	6'-0"	13'-8"	8'-6"	12'-8"	6'-0"	19'-0"	8'-6"	18'-4"	9'-0"	1'-0"	1'-0"	1'-0"	0'-8"	#6 @ 12"	#6 @ 12"	TYPICAL	#5 @ 6"	#6 @ 12"	#6 @ 12"	
14	10'-6"	6'-2"	14'-9"	8'-8"	14'-3"	6'-2"	21'-6"	8'-8"	20'-2"	9'-2"	1'-0"	1'-2"	1'-0"	0'-8"	#5 @ 6"	#5 @ 6"	#6 @ 12"	#5 @ 6"	#5 @ 6"	#6 @ 12"	
16	10'-6"	6'-4"	15'-4"	8'-10"	16'-6"	6'-4"	24'-2"	8'-10"	21'-0"	9'-4"	1'-0"	1'-2"	1'-0"	0'-8"	#5 @ 6"	#5 @ 6"	#6 @ 12"	#5 @ 6"	#5 @ 6"	#6 @ 12"	

DIMENSIONAL NOTES:

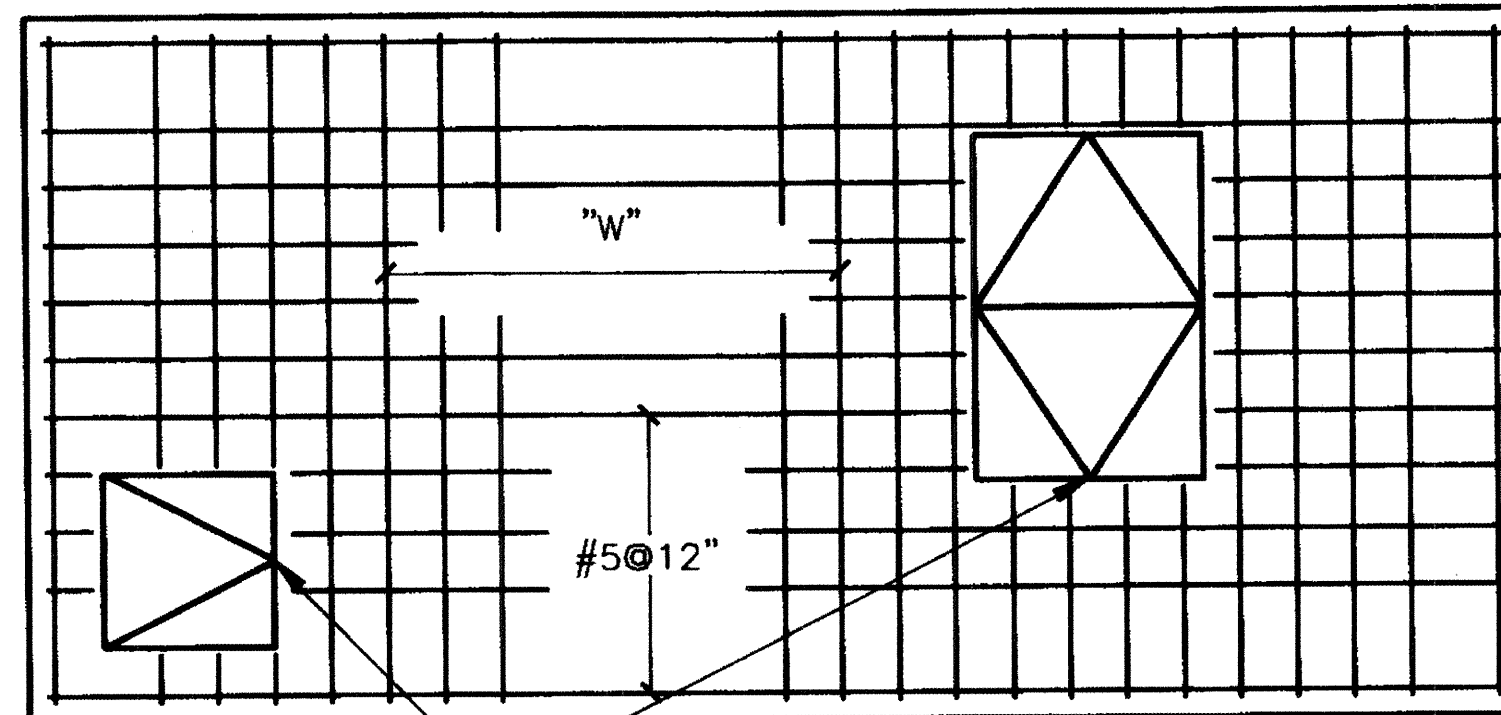
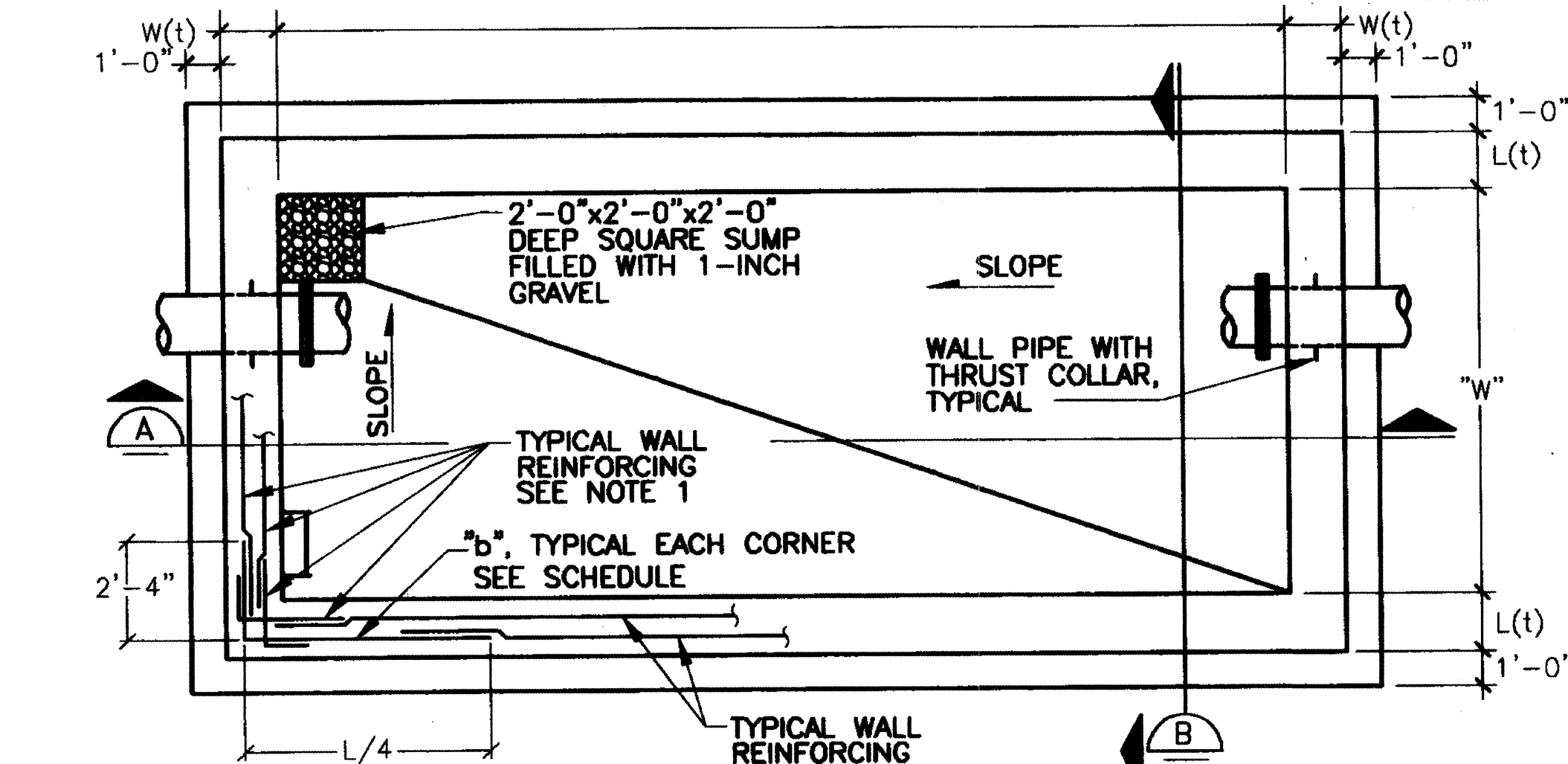
"L"=VAULT LENGTH
"W"=VAULT WIDTH
L(t)=WALL THICKNESS(LENGTH)
W(t)=WALL THICKNESS(WIDTH)
T(t)=TOP SLAB THICKNESS

WALL REINFORCING NOTES:

- "a" BAR DESIGNATION REPRESENTS WALL DOWELS PROTRUDING VERTICALLY FROM BASE SLAB ALONG LENGTHWISE DIMENSION "L" OR WIDTH DIMENSION "W".
- "b" BAR DESIGNATION REPRESENTS ADDITIONAL HORIZONTAL WALL CORNER REINFORCING.

GENERAL NOTES:

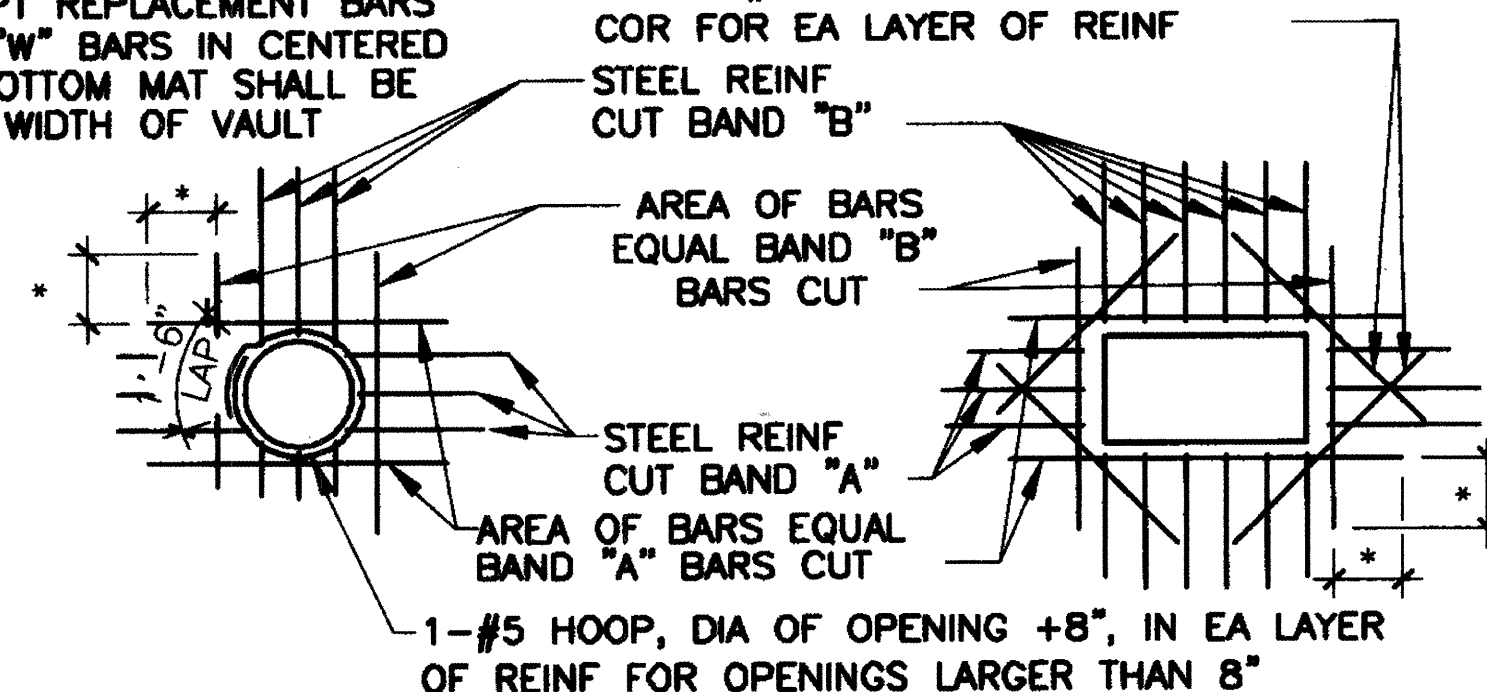
- TYPICAL WALL REINFORCING SHALL BE #5 @ 12" O.C., EACH WAY, EACH FACE UNLESS SHOWN OTHERWISE ON THE SCHEDULE. PROVIDE BARS AS INDICATED ON THE SCHEDULE AND LAP WITH #5 @ 12" FOR REMAINDER OF WALL HEIGHT OR LENGTH.
- TYPICAL BASE SLAB REINFORCING SHALL BE #5 @ 12" EACH WAY, TOP AND BOTTOM OF SLAB.
- CONCRETE SHALL BE IN ACCORDANCE WITH STD SPECIFICATION SECTION 510 WITH F'c = 4000 PSI. ALL REINFORCING STEEL SHALL BE GRADE 60.
- IF THE DEPTH OF VAULT EXCEEDS THE 11'-0" MAXIMUM DEPTH SHOWN, THE ENGINEER/CONTRACTOR SHALL DESIGN THE REINFORCEMENT, WALL AND FLOOR THICKNESSES TO SUIT THE SPECIFIC CONDITIONS. ALL STRUCTURAL MODIFICATIONS SHALL BE PERFORMED AND STAMPED BY A LICENSED NEW MEXICO PROFESSIONAL ENGINEER.



TOP PLAN

VAULT DIMENSION "W"	REINFORCING	
	T(t)=0'-8"	T(t)=1'-0"
≤6'-0"	#5 @ 12"	#5 @ 12"
>6'-0" ≤7'-0"	#5 @ 12"	#6 @ 12"
>7'-0" ≤9'-0"	#6 @ 12"	#7 @ 12"
>9'-0" ≤10'-0"	#7 @ 12"	#7 @ 12"

* #5=2'-6", #6=3'-0", #7=3'-6"
EXCEPT REPLACEMENT BARS FOR "W" BARS IN CENTERED OR BOTTOM MAT SHALL BE FULL WIDTH OF VAULT



OPENING NOTES:

- TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS.
- DO NOT WELD REINFORCEMENT TO PIPE SLEEVES AND INSERTS.

REVISIONS	CITY OF ALBUQUERQUE
	WATER
	STANDARD PRV STATION
	STRUCTURAL DETAILS
	DWG. 2357 JANUARY 2002

26 6795.81 0804

dmg

MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: RIO BRAVO SECTOR PLAN
2WR WATERLINE IMPROVEMENTS
PRV DETAILS

DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

LAST DESIGN UPDATE

CITY PROJECT NO. 679581

ZONE MAP NO. N-9/P-9

SHEET OF 8B 8