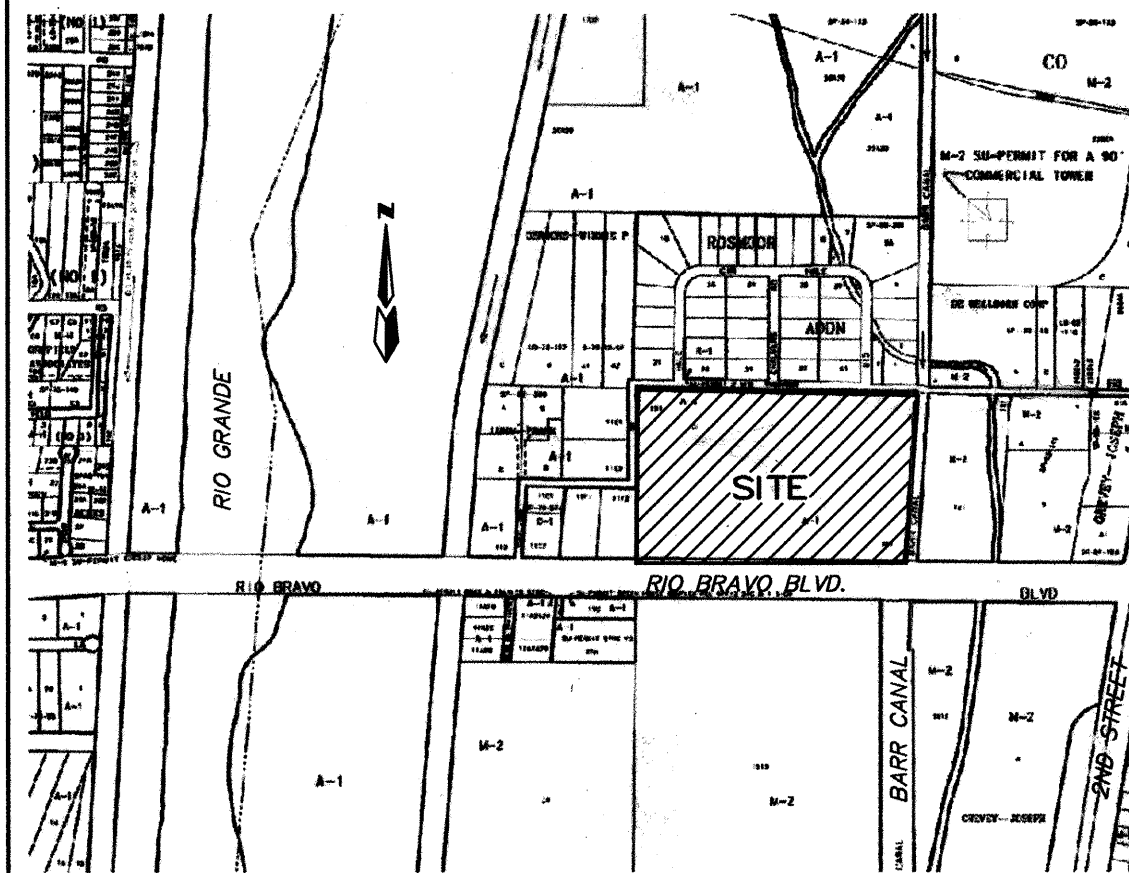


SCANNED BY
MESA REPRO

CONSTRUCTION PLANS FOR *RIO BRAVO COMMONS*

BERNALILLO COUNTY, NEW MEXICO



VICINITY MAP ZONE ATLAS N-13
SCALE: NONE

GENERAL NOTES

NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE COUNTY RIGHT-OF-WAY.
2. ALL UTILITY RELATED 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, 1988 EDITION AS REVISED THROUGH UPDATE #6. ALL NON-UTILITY RELATED WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE BERNALILLO COUNTY STREET STANDARDS.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (280-1990) FOR LOCATION OF EXISTING UTILITIES.
4. 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.
5. FIVE (5) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO BERNALILLO COUNTY PUBLIC WORKS A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE BERNALILLO COUNTY PUBLIC WORKS DEPT. CONTRACTOR SHALL NOTIFY THE COUNTY BARRICADE ENGINEER (848-1500) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO THE BERNALILLO COUNTY STREET STANDARDS.
6. ALL WORK AFFECTING ARTERIAL ROADWAYS REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
7. 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.
8. 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 THE PAVEMENT 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.
10. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
11. CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALBUQUERQUE WATER SYSTEMS DIVISION (857-8200) FIVE (5) 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 SEVEN (7) WORKING DAYS PRIOR TO NEEDING VALVES TURNED ON OR OFF.
12. 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.
13. COUNTY INSPECTOR SHALL VERIFY THE THICKNESS OF ANY PAVEMENT CUTS PRIOR TO PATCHING OR ABUTTING WITH NEW PAVEMENT.

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 CITY ENGINEER.
- ☒ SIDEWALK AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☐ IF CURB IS DEPRESSED 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.

NOTICE

CONTRACTOR SHALL REFER TO COA SPECIFICATION 701.7 WHEN PERFORMING WORK IN AREAS INVOLVING STANDING WATER OR GROUNDWATER

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. 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.
CONSULTING ENGINEERS
P. O. BOX 90806
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

**BERNALILLO COUNTY
PUBLIC WORKS DEPARTMENT**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
26	6875	81	0103											
7/11/03	7/11/03	7/11/03	7/11/03	7/11/03	7/11/03	7/11/03	7/11/03	7/11/03	7/11/03	7/11/03	7/11/03	7/11/03	7/11/03	7/11/03
REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE		APPROVED FOR CONSTRUCTION						
		DRC CHAIRMAN		N/A		7/23/02								
		TRANSPORTATION		N/A		5/30/02								
		WATER/WASTEWATER		N/A		5/30/02								
		HYDROLOGY		N/A		5/30/02								
		CIP		N/A		5/30/02								
CONSTR. MGMT.		N/A		N/A		N/A		CITY ENGINEER DATE						
CONSTR. COORD.		N/A		N/A		N/A		CITY ENGINEER DATE						
CITY PROJECT NO.		COUNTY PROJECT NO.		SHEET		OF								
687581		PWCO 20014		1		20								

INDEX TO DRAWINGS

SHEET NO.	SHEET
1	TITLE SHEET
2-4	PLAT
5-6	GRADING AND DRAINAGE PLAN
7	MASTER PAVING PLAN
8-12	PAVING IMPROVEMENTS
13	MASTER UTILITY PLAN
14-17	UTILITY IMPROVEMENTS
18	OFFSITE UTILITY IMPROVEMENTS
19-20	TRAFFIC CONTROL

SURVEYOR'S CERTIFICATION

"I, Timothy Aldrich, a duly qualified Registered Professional Land Surveyor under the laws of the State of New Mexico, do hereby certify that the 'as-built' information shown on these drawings was obtained from field construction and 'as-built' surveys performed by me or under my supervision, that the 'as-built' information shown on these drawings was added by me or under my supervision, and that this 'as-built' information is true and correct to the best of my knowledge and belief." Aldrich Land Surveying is not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.

Timothy Aldrich, P.S. No. 7719

05-22-03
Date

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY ENGINEER
DATE: 7/11/03

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 6875 81 0103

BERNALILLO COUNTY PUBLIC WORKS DIVISION

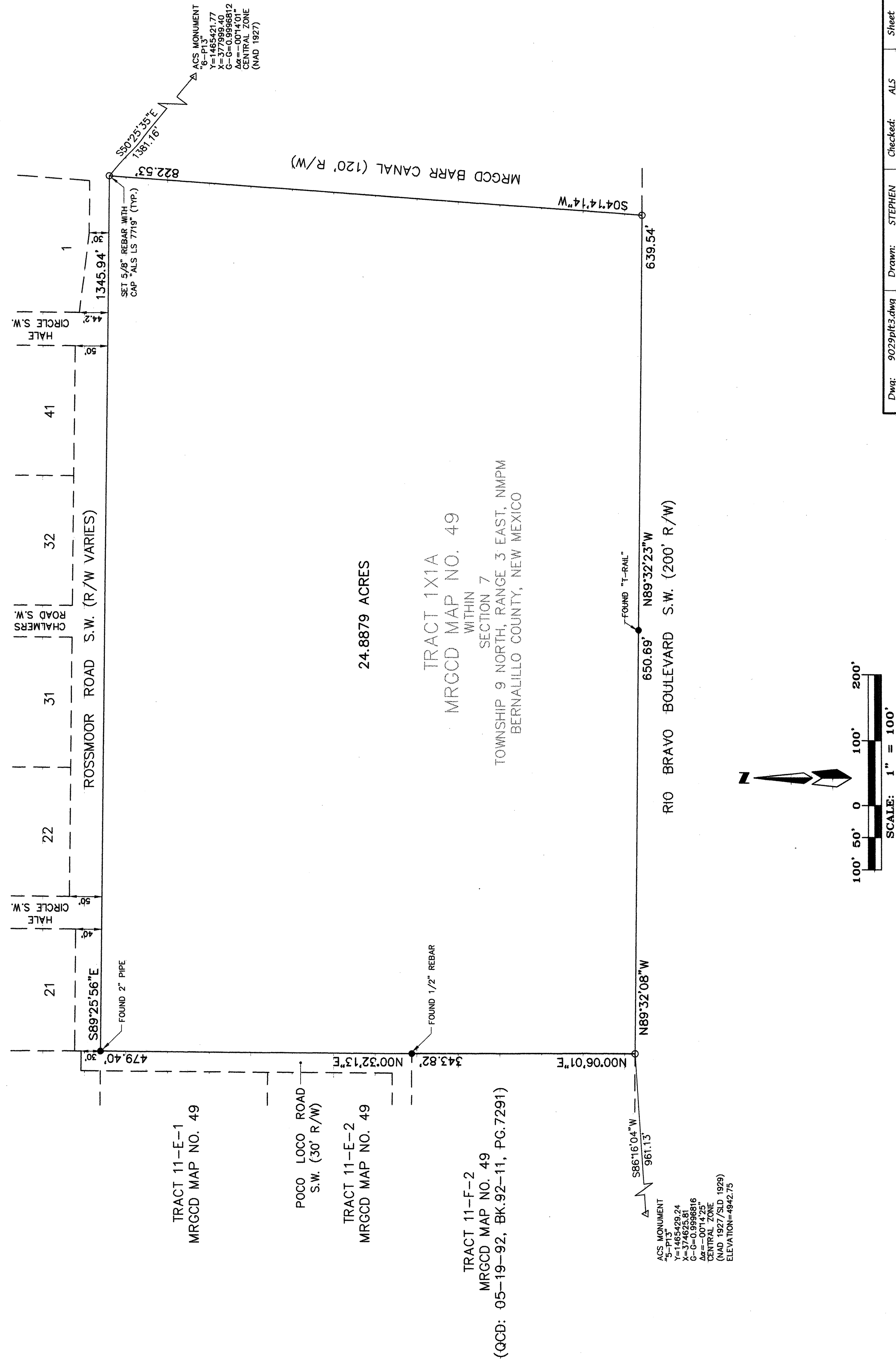
6/6/02
DATE

100

WITHIN

WITHIN
SECTION 7
TOWNSHIP 9 NORTH, RANGE 3 EAST, N.M.P.M.
BERNALILLO COUNTY, NEW MEXICO
MARCH 2000

ROSSMOOR ADDITION
(02-03-49, C-116)

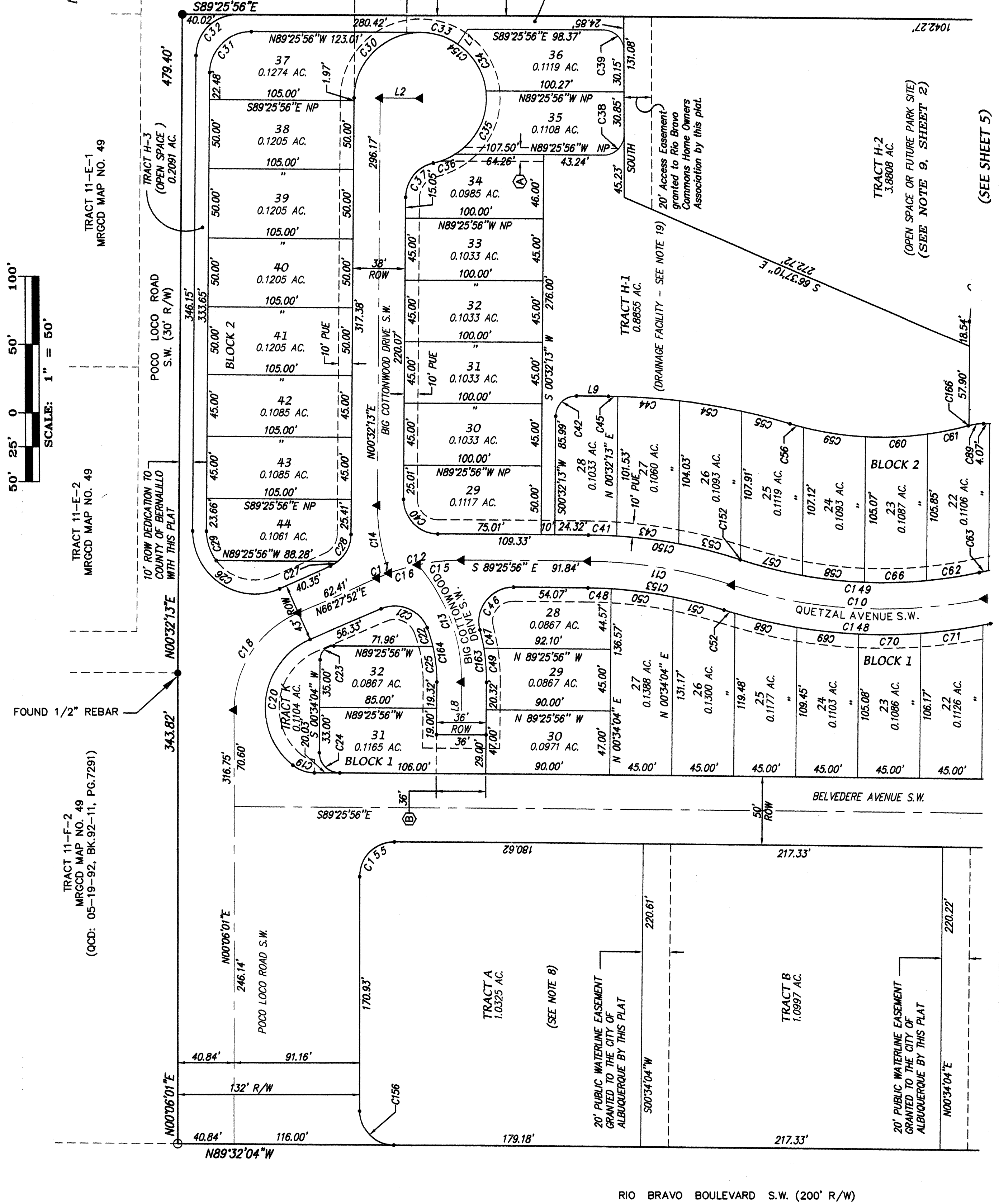


Dwg:	9029plt3.dwg	Drawn:	STEPHEN	Checked:	ALS
Scale:	1"=100'	Date:	03/08/02	Job:	99029

Sheet 3 of 6

PLAT FOR
RIO BRAVO COMMONS
..... WITHIN

SECTION 7, TOWNSHIP 9
NORTH, RANGE 3 EAST,
N.M.P.M. BERNALILLO COUNTY,
NEW MEXICO
FEBRUARY, 2002



NOTE: ▲

CENTERLINE (IN LIEU OF R/W) MONUMENTATION IS TO BE INSTALLED AT ALL CENTERLINE PC'S, PT'S, ANGLE POINTS AND STREET INTERSECTIONS AS SHOWN HEREON, AND WILL CONSIST OF A FOUR (4") ALUMINUM ALLOY CAP STAMPED "COUNTY OF BERNALILLO"; "CENTERLINE MONUMENT", "DO NOT DISTURB", "PLS # 7719".

Dwg: PLAT.dwg	Drawn: STEPHEN	Checked: ALS	Sheet 4 of 6
Scale: 1"=50'	Date: 05/13/02	Job: 99029	

26	6875.81	0303
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CPN 687581

3 OF 20

KEYED NOTES

ALL REAR YARD RUNOFF TO PASS THROUGH EACH YARD WALL OR FENCE INTO OPEN SPACE THROUGH BLOCK TURNED SIDEWAYS OR ALTERNATIVE OPENINGS AT BASE OF YARD WALL FENCE

NOTE

ALL IMPROVEMENTS PLANNED WITHIN NMSHTD RIGHT-OF-WAY SHALL BE DESIGNED AND COORDINATED IN CONJUNCTION WITH A NEW DRIVEWAY PERMIT TO BE SUBMITTED SEPARATELY TO NMSHTD. PROPOSED CHANGES WITHIN R/W ARE SHOWN FOR INFORMATION ONLY.

MIN. PONDING REQUIREMENT
 $V_{10} = 0.0169$ AC. FT.
 Q SPILLWAY = 0.45 cfs

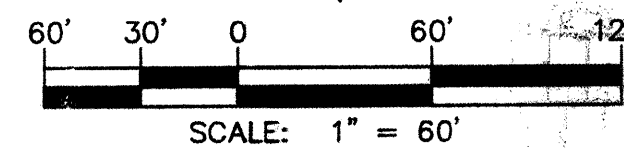
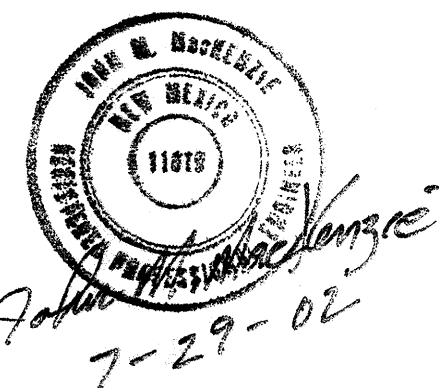
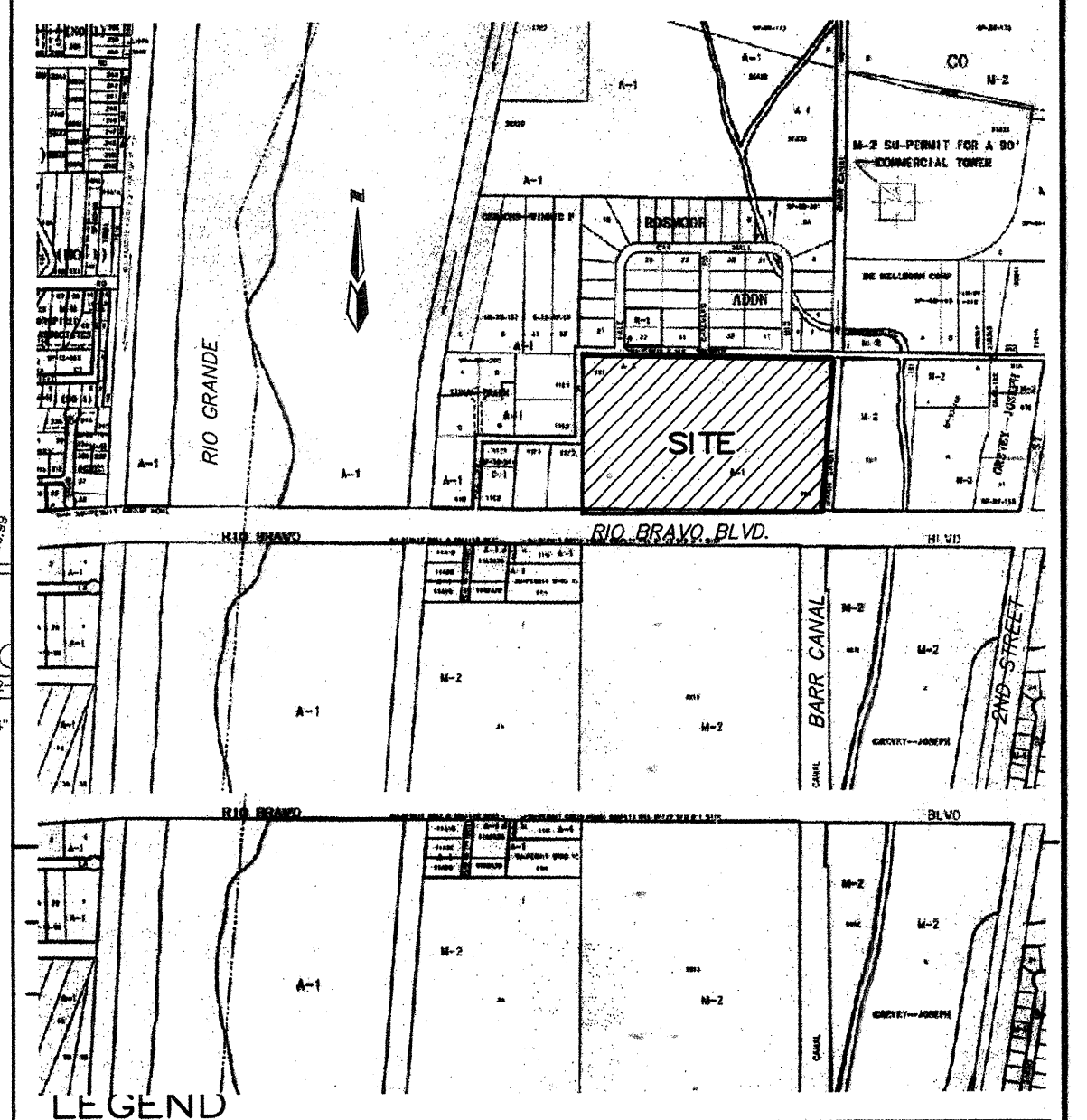
COUNTY OF BERNALILLO
 PUBLIC WORKS DEPARTMENT

RIO BRAVO COMMONS GRADING AND DRAINAGE PLAN

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
 CONSULTING ENGINEERS & SURVEYORS
 P.O. BOX 90606
 ALBUQUERQUE, NEW MEXICO 87199
 (505) 345-2010

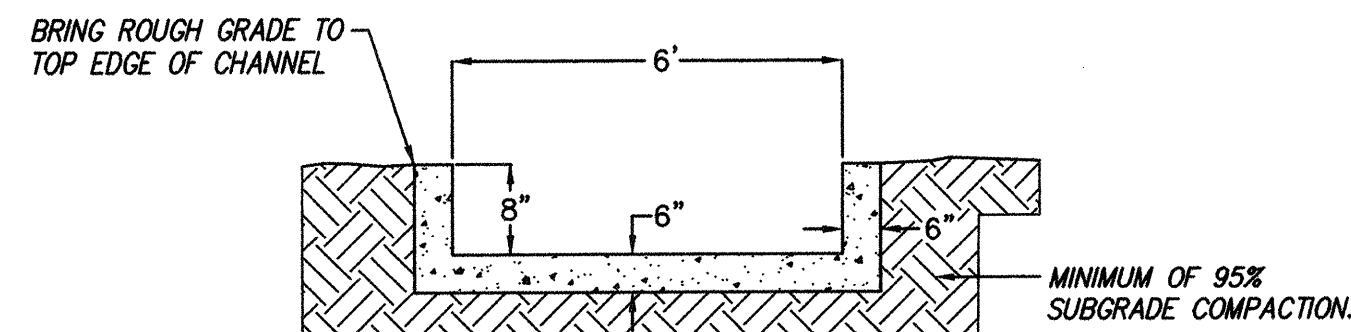
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 Scale: 1"=60' Date: 04-06-00 Job: 99029

99029/9029GD60REV/07-29-02/ACH SPS KJS MJR NHE

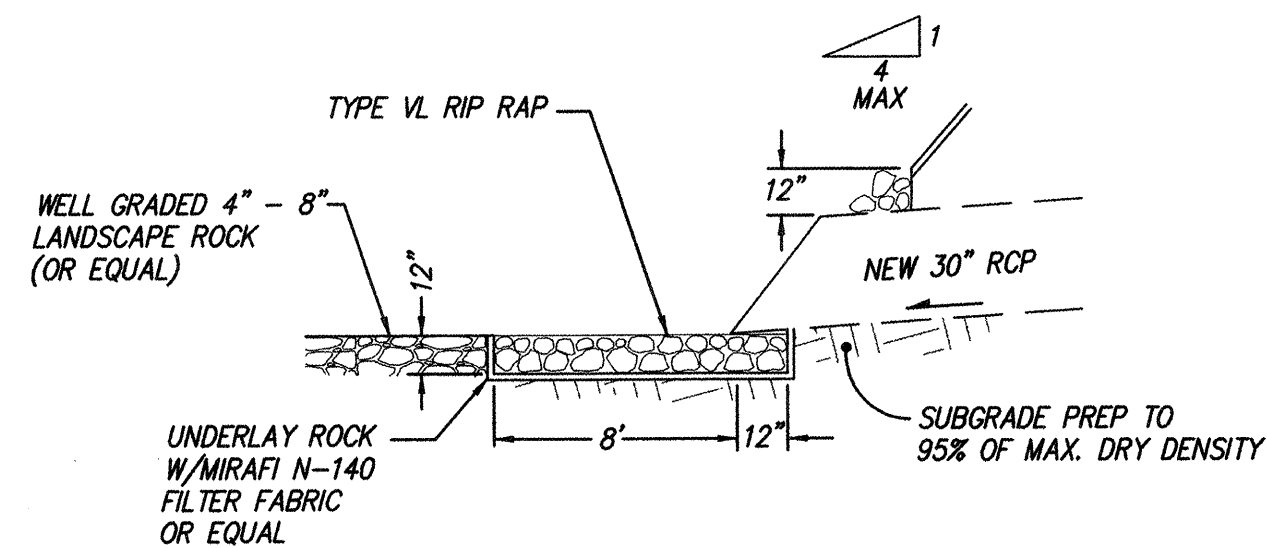


26 6875.81 0503

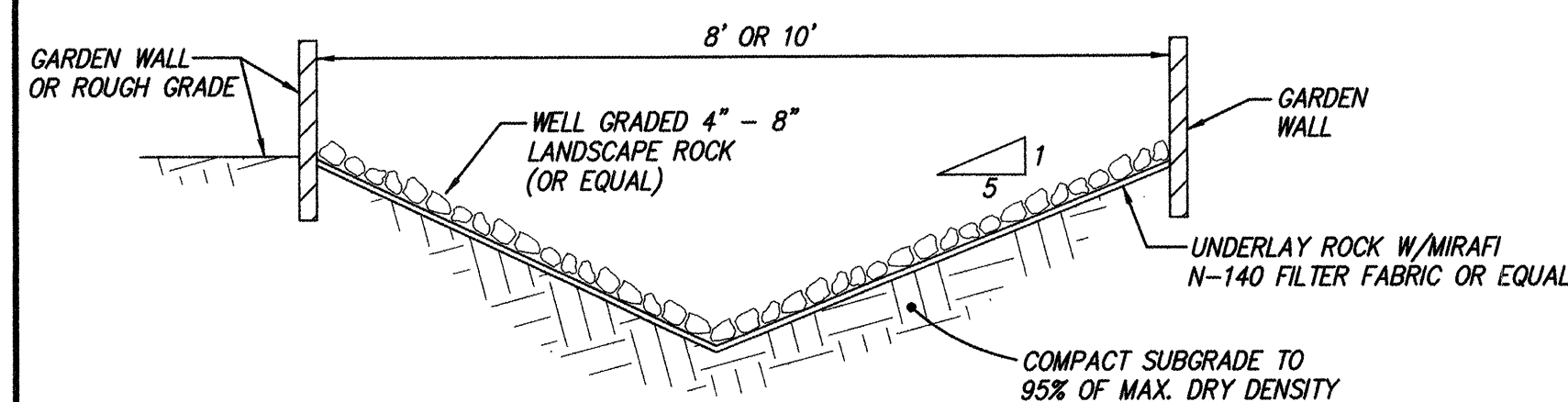
SCANNED BY
 MESA REPRO



6' CONCRETE RUNDOWN

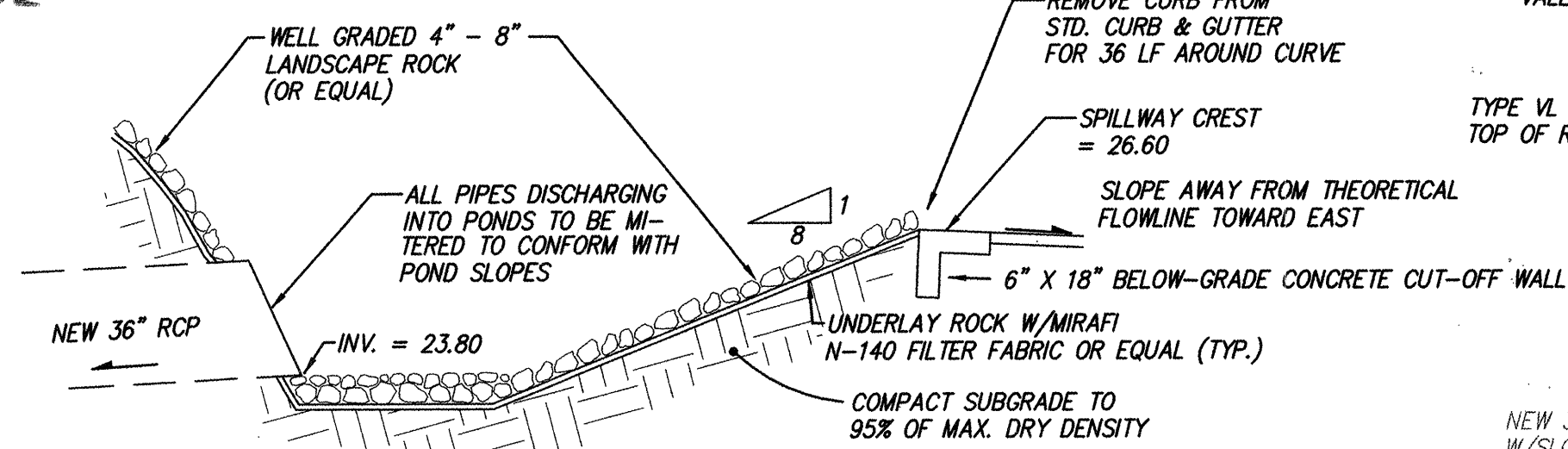


30" STORM DRAIN OUTFALL TO RETENTION POND



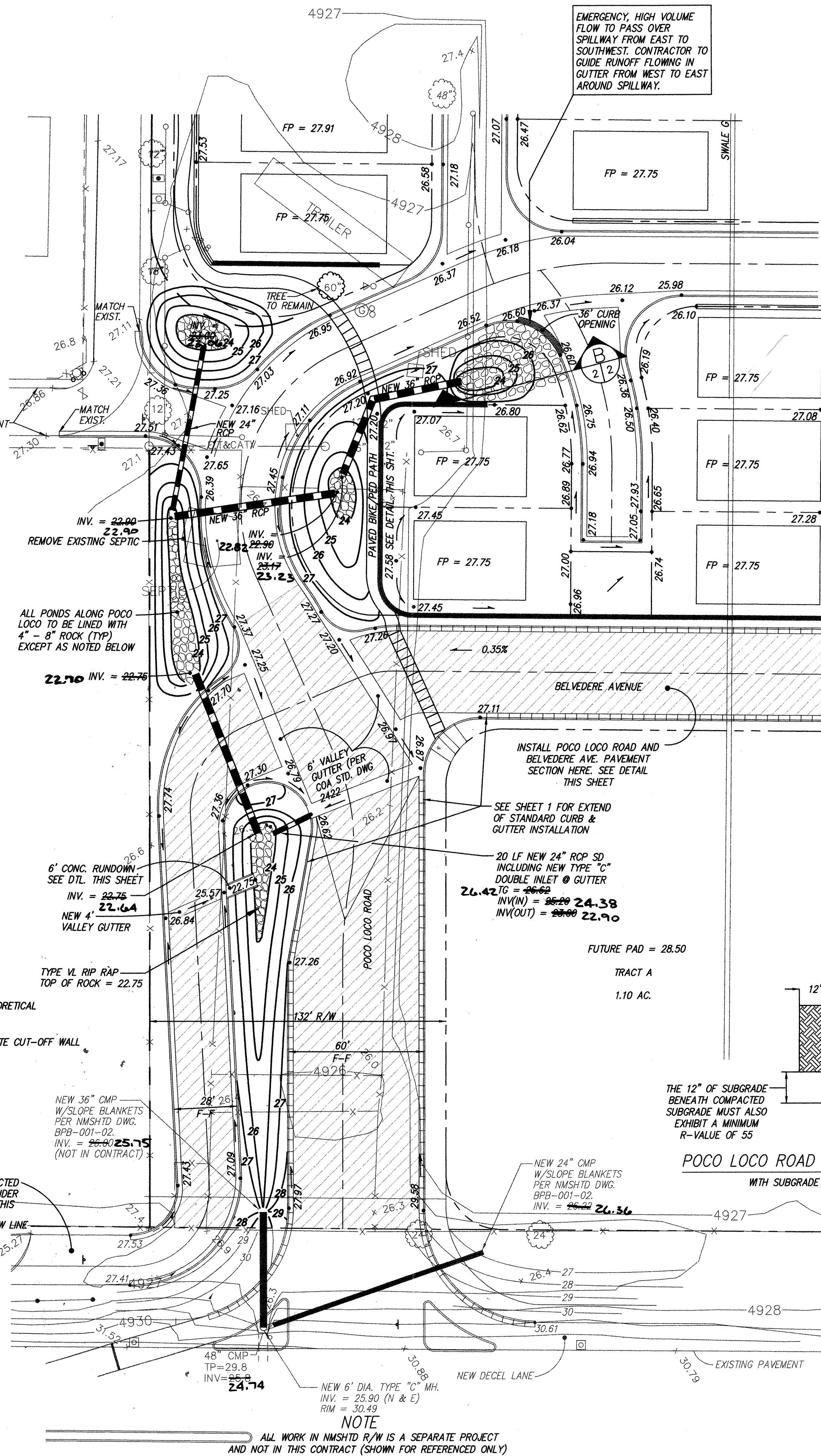
TYPICAL SWALE SECTION

SCANNED BY
MESA REPRO



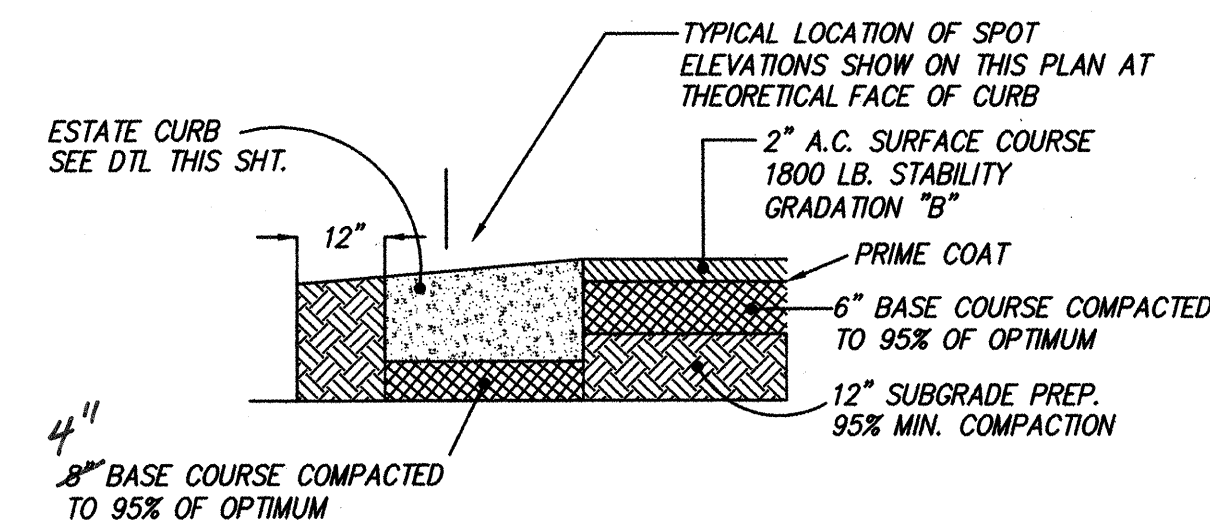
POND SECTION

CLASSIFICATION AND GRADATION OF RIPRAP			
RIPRAP DESIGNATION	% SMALLER THAN GIVEN SIZE BY WEIGHT	INTERMEDIATE ROCK DIMENSION (INCHES)	MEAN PARTICAL SIZE (INCHES)
TYPE VI	70 - 100	12	6
"	50 - 70	9	6
"	35 - 50	6	6
TYPE VI	2 - 10	2	6



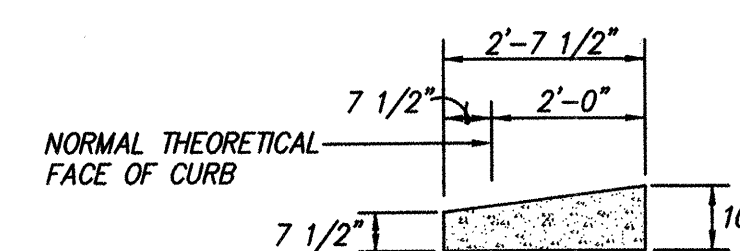
NOTES

1. PAVEMENT SECTION DETAILS FOR POCO LOCO ROAD AND BELVEDERE DRIVE WILL BE PROVIDED WITH CONSTRUCTION DRAWINGS.
2. ALL DISTURBED AREA NOT LANDSCAPED SHALL BE SOWN WITH NATIVE NATIVE GRASS SEED AND MULCHED PER COA STANDARD SPECS.
3. THIS SITE DOES NOT LIE WITHIN A 100-YEAR FLOODPLAIN.
4. TOPOGRAPHIC SURVEY PROVIDED BY ALS.
5. EROSION CONTROL MEASURES SHALL BE EMPLOYED BY THE EARTH-WORK CONTRACTOR IN ACCORDANCE WITH STANDARDS IDENTIFIED WITHIN THE SURFACE DISTURBANCE PERMIT ISSUED BY COA ENVIRONMENTAL HEALTH DEPARTMENT PRIOR TO INITIATING WORK.
6. OFF-SITE FLOWS DO NOT ADVERSELY IMPACT THIS SITE.
7. ALL PIPE PROTRUSIONS INTO PONDS SHALL BE MITRED TO CONFORM WITH POND SLOPE.
8. SEE SOILS REPORT BY VINYARD & ASSOC., DATED 2/24/00 FOR MORE DETAILED SOILS RELATED RECOMMENDATIONS.
9. ALL SUBGRADE COMPACTION TO BE 95% OF OPTIMUM DENSITY.



RESIDENTIAL PAVEMENT SECTION

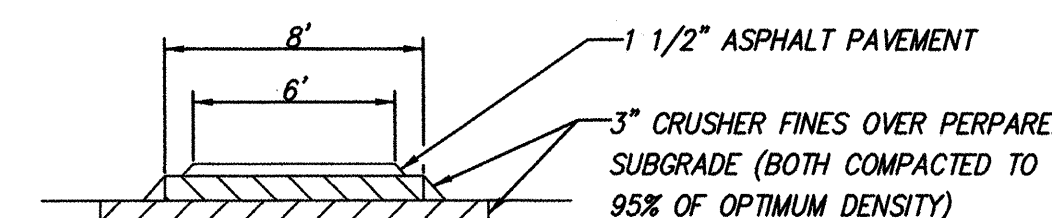
PAVEMENT SECTION PER COUNTY STD. DWG. 2406 NTS



ESTATE TYPE CURB

STD. DWG. 2415

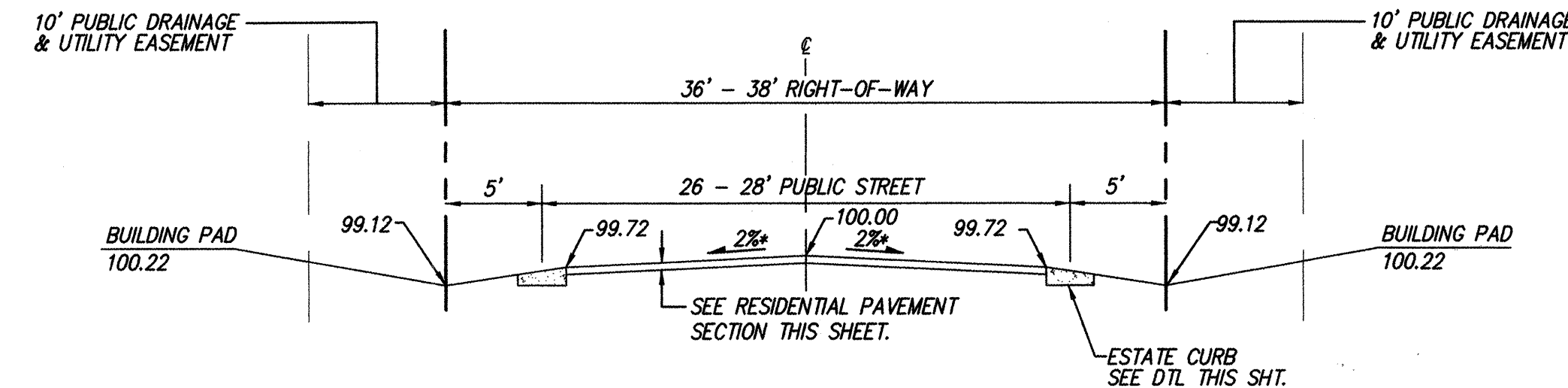
NTS



6' BIKE/PEDESTRIAN PATH

STD. DWG. 2415

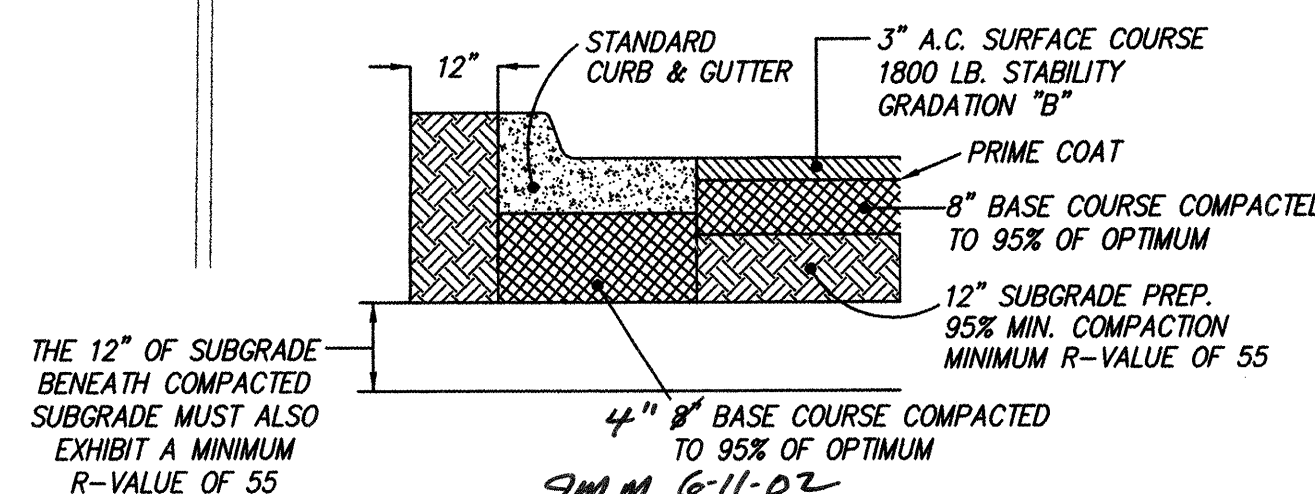
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TYPICAL RESIDENTIAL STREET SECTION

* TYPICAL - UNLESS OTHERWISE INDICATED

NTS



POCO LOCO ROAD & BELVEDERE AVE. PAVEMENT SECTION

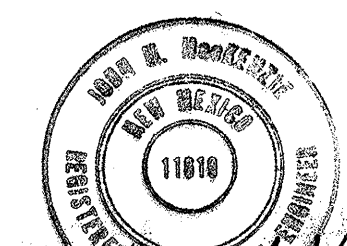
WITH SUBGRADE R-VALUE OF 55 OR MORE

NTS

POCO LOCO ROAD & BELVEDERE AVE. (ALTERNATIVE PAVEMENT SECTION)

WITH SUBGRADE R-VALUE OF 5 OR MORE

NTS



02-25-02
05-15-02

SCALE: 1" = 30'

COUNTY OF BERNALILLO PUBLIC WORKS DEPARTMENT

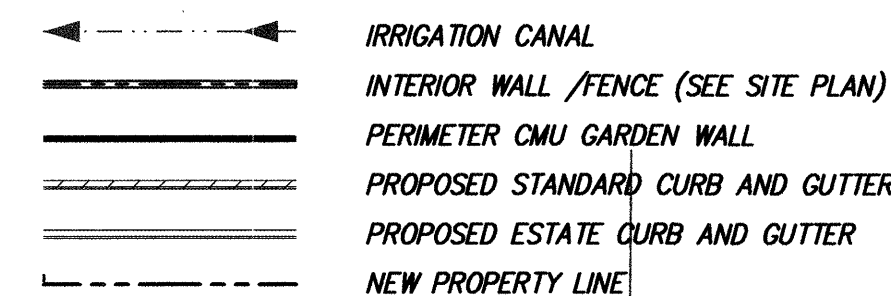
RIO BRAVO COMMONS DETAIL SHEET

MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS

P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505)828-2200, FAX (505)797-9539

Designed: JMM Drawn: ACH Checked: DMG Sheet 6 of 20
Scale: 1" = 30' Date: 05-17-00 Job: 99029

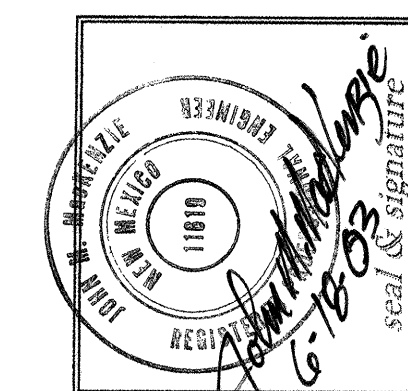
99029RBC/DET-30/05-15-02/ACH JMM MJR



EASEMENT LINE
EXISTING PROPERTY LINE
EXISTING FENCE
EXISTING CURB & GUTTER
EXISTING CENTERLINE
EXISTING TREE TO REMAIN
EXISTING ON-SITE TREE TO BE REMOVED
CROSS WALK (CONTRASTING TO PAVEMENT)

NOTES

1. SEE SHEET 6 FOR PAVEMENT SECTIONS
2. ALL NONUTILITY WORK TO BE IN ACCORDANCE WITH BERNALILLO COUNTY STREET STANDARDS

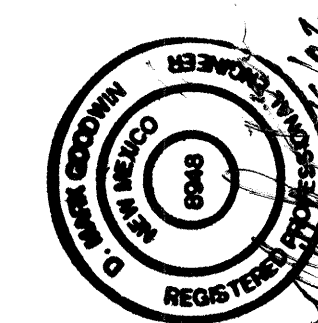


AS-BUILT RECORD DRAWING

I, John M. MacKenzie, NMPE #11619, of the firm Mark Goodwin & Associates, PA, 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 County 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

KEYED SINAGE TABLE

- ① STOP SIGN WITH STREET NAMES (R1-1)
TO INCLUDE 12" x 12" WHITE STOP BAR.
- ② 30" x 30" DEAD END (W14-1) W/9 BUTTON
DIAMOND DELINEATOR.
- ③ 24" x 24" DOUBLE ARROW (W1-7) W/9
BUTTON DIAMOND DELINEATOR.
- ④ SPEED LIMIT 25 (R2-4)
- ⑤ 30" x 30" RIGHT OR LEFT TURN (W1-1R OR 1L)
INCLUDING W13-1 ADVISORY TO 15 MPH



Estimated Oil De Sc (replacement)	2000
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[illegible]

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200. FAX (505) 797-9

COUNTY OF BERNALILLO
PUBLIC WORKS DEPARTMENT

TITLE: ***RIO BRAVO COMMONS
MASTER PAVING PLAN***

DESIGN REVIEW COMMITTEE APPROVED JUL 23 2003 DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVED JUL 23 2003 CITY ENGINEER

CITY PROJECT NO. 687581	COUNTY PROJECT NO. PWCO 20014	ZONE MAP NO. N/P-1
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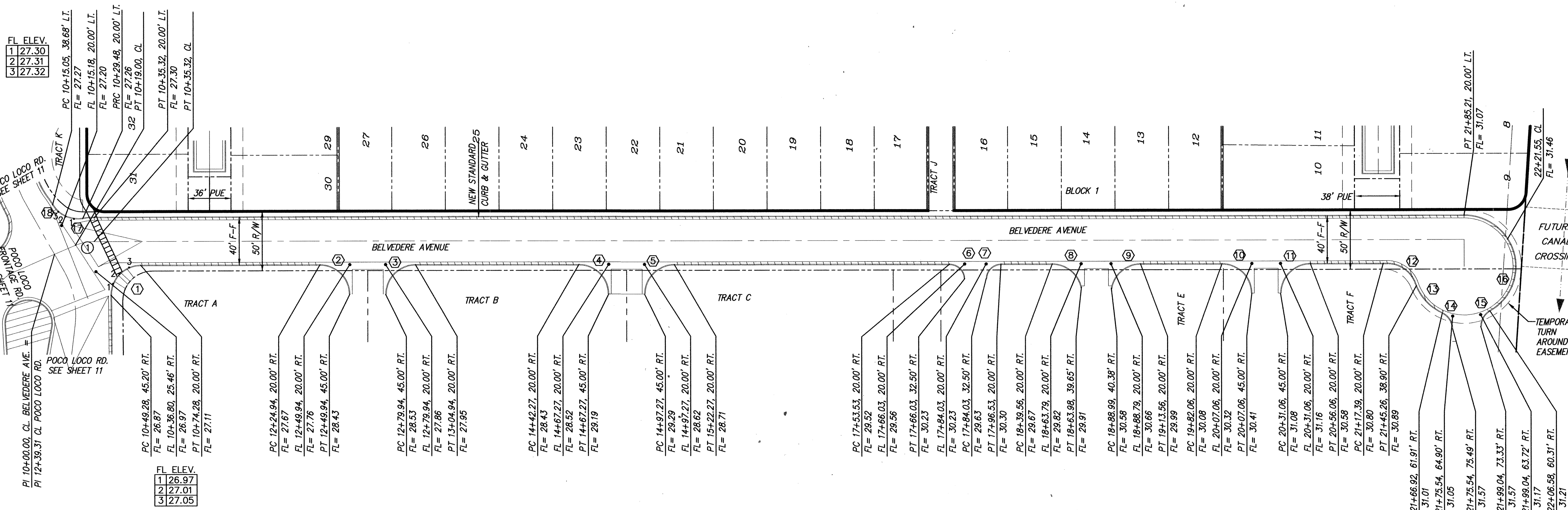
LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

SHEET 7 OF 20

99029/9029-MPP/08-05-02/KJS MJR NHE

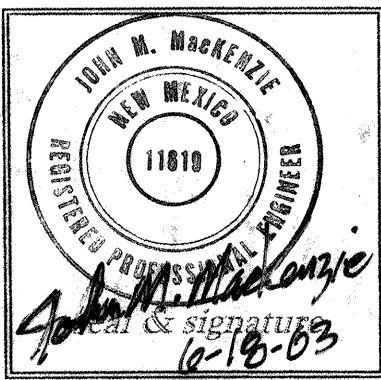
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SCANNED BY
MESA REPRO



AS-BUILT RECORD DRAWING

I, John M. MacKenzie, NMPE 11619, 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 County 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.



BELVEDERE AVENUE
STA. 10+00.00 TO STA. 22+21.55
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

NOTES

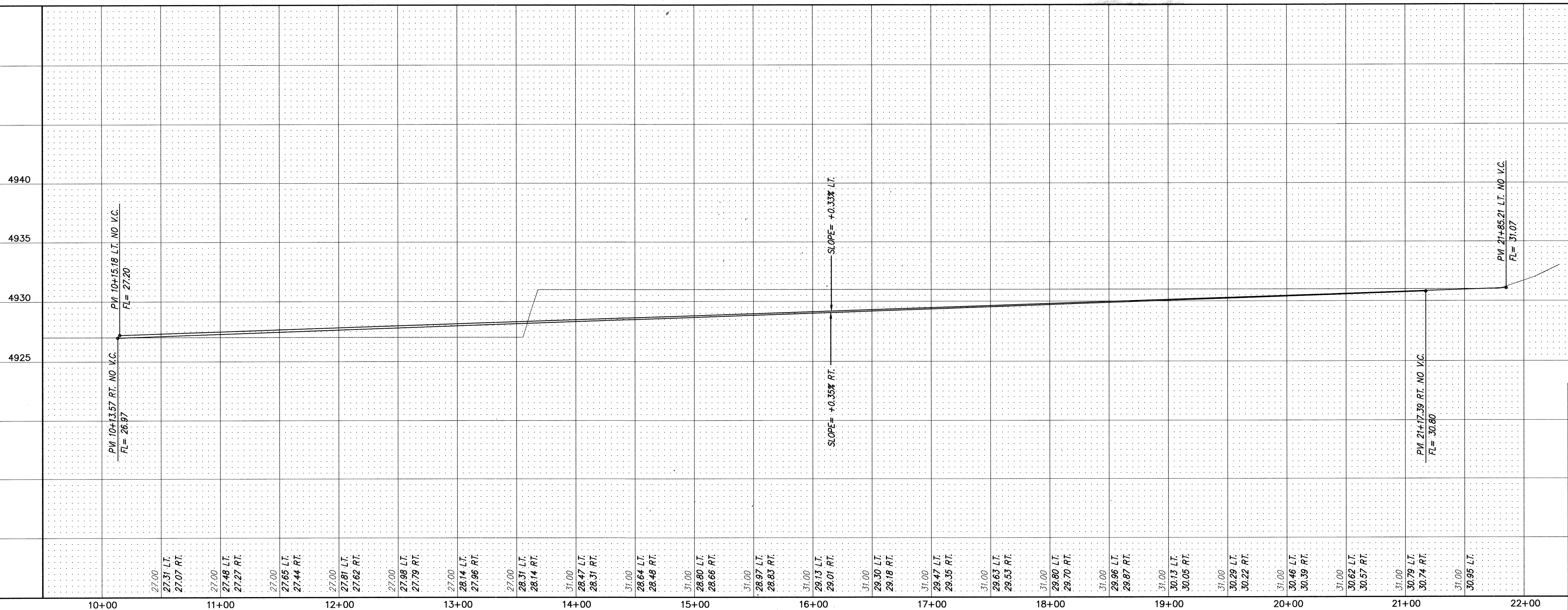
1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA - DESCRIBES FACE OF CURB

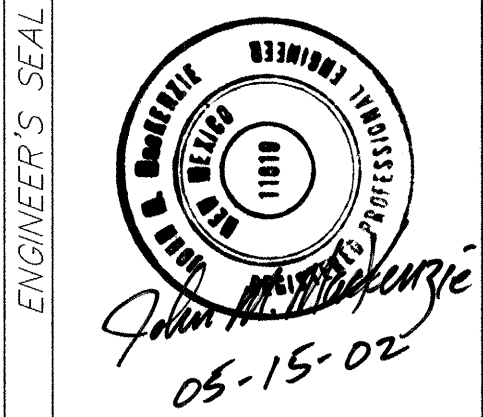
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③ $\Delta = 90^{\circ}00'00''$ $R = 25.00'$ $L = 39.27'$ $T = 25.00'$	④ $\Delta = 90^{\circ}00'00''$ $R = 25.00'$ $L = 39.27'$ $T = 25.00'$
⑤ $\Delta = 90^{\circ}00'00''$ $R = 25.00'$ $L = 39.27'$ $T = 25.00'$	⑥ $\Delta = 90^{\circ}00'00''$ $R = 12.50'$ $L = 19.63'$ $T = 12.50'$
⑦ $\Delta = 90^{\circ}00'00''$ $R = 12.50'$ $L = 19.63'$ $T = 12.50'$	⑧ $\Delta = 77^{\circ}38'49''$ $R = 25.00'$ $L = 33.88'$ $T = 20.12'$
⑨ $\Delta = 79^{\circ}20'35''$ $R = 25.00'$ $L = 34.62'$ $T = 20.73'$	⑩ $\Delta = 90^{\circ}00'00''$ $R = 25.00'$ $L = 39.27'$ $T = 25.00'$
⑪ $\Delta = 90^{\circ}00'00''$ $R = 25.00'$ $L = 39.27'$ $T = 25.00'$	⑫ $\Delta = 83^{\circ}53'39''$ $R = 25.00'$ $L = 31.03'$ $T = 22.47'$
⑬ $\Delta = 44^{\circ}06'57''$ $R = 43.00'$ $L = 34.48'$ $T = 17.42'$	⑭ $\Delta = 64^{\circ}49'22''$ $R = 15.00'$ $L = 16.97'$ $T = 9.52'$
⑮ $\Delta = 60^{\circ}26'43''$ $R = 15.00'$ $L = 15.76'$ $T = 8.74'$	⑯ $\Delta = 150^{\circ}11'54''$ $R = 43.00'$ $L = 112.78'$ $T = N/A$
⑰ $\Delta = 91^{\circ}14'19''$ $R = 60.00'$ $L = 9.67'$ $T = 61.31'$	⑱ $\Delta = 69^{\circ}07'05''$ $R = 25.00'$ $L = 30.16'$ $T = 16.63'$

CURVE DATA - DESCRIBES CENTERLINE

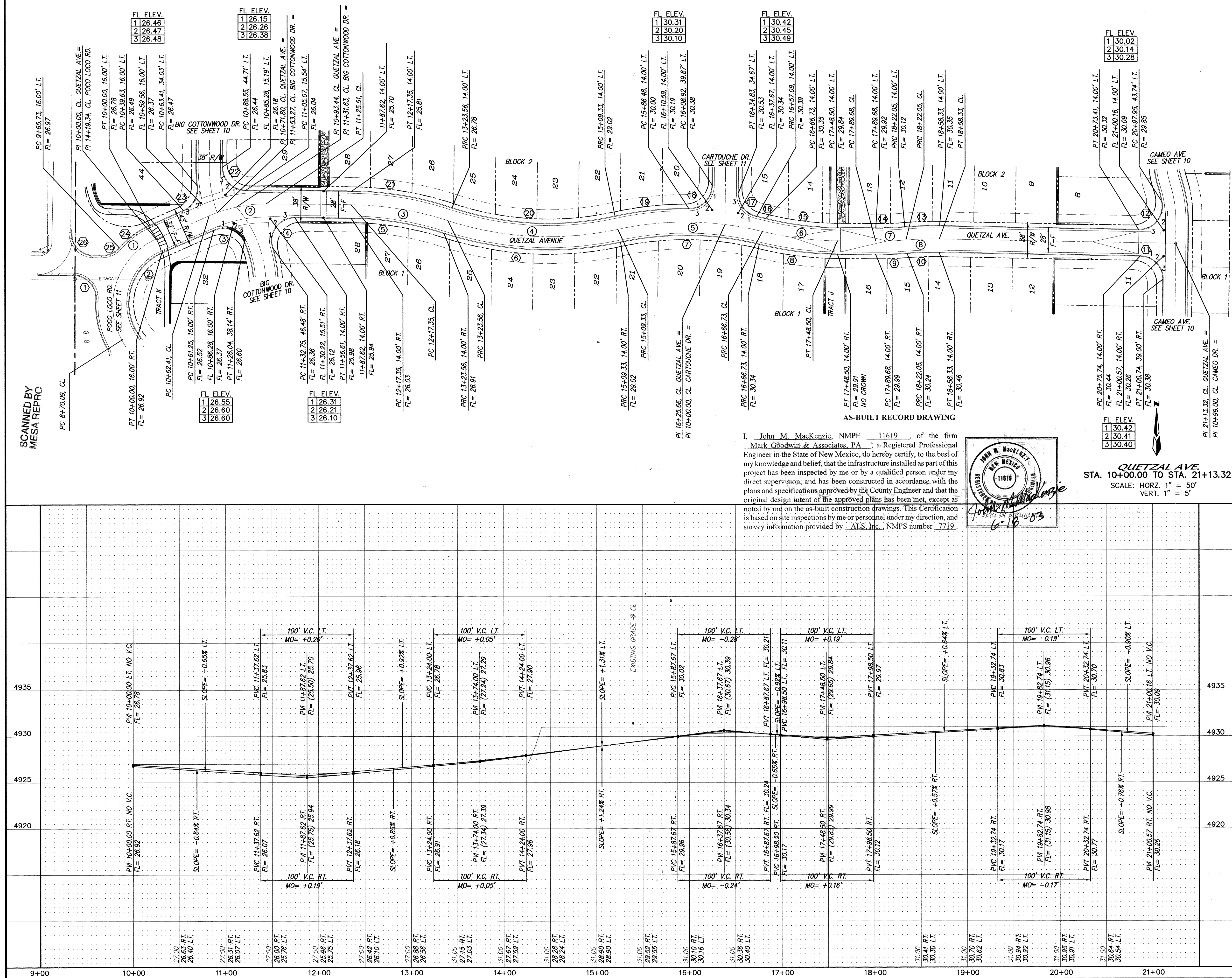
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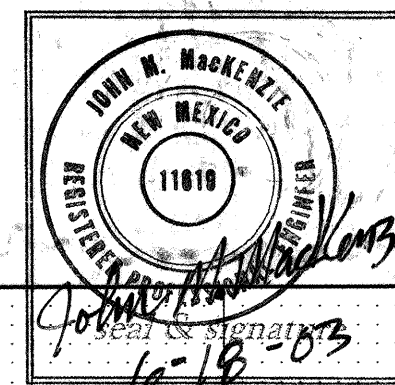
CITY PROJECT NO. 687581		COUNTY PROJECT NO. PWCO 20014		ZONE MAP NO. N/P-13		SHEET 8 OF 20	
COUNTY OF BERNALILLO PUBLIC WORKS DEPARTMENT							
TITLE: RIO BRAVO COMMONS PAVING IMPROVEMENTS							
DESIGN REVIEW COMMITTEE APPROVED JUL 17 2002		CITY ENGINEER APPROVED JUL 22 2002		LAST DESIGN UPDATE		MO./DAY/YR.	
DESIGNED BY JMM		DATE 01/01		DRAWN BY ACH		DATE 01/01	
CHECKED BY DMG		DATE 01/01		REMARKS REVISIONS		BY	
NO.		DATE		DESIGN		DATE	



REMARKS REVISIONS		BY	
NO.		DATE	
DESIGNED BY JMM		DATE 01/01	
DRAWN BY ACH		DATE 01/01	
CHECKED BY DMG		DATE 01/01	

SCANNED BY
MESA REPRO

I, John M. MacKenzie, NMPE 11619, 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 County 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.



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA - DESCRIBES FACE OF CURB

1 Δ = 93°22'39"	2 Δ = 102°27'02"
R = 25.00'	R = 60.00'
L = 40.74'	L = 107.29'
T = 26.52'	T = 74.69'
3 Δ = 89°20'17"	4 Δ = 107°24'51"
R = 25.00'	R = 25.00'
L = 38.98'	L = 46.87'
T = 24.71'	T = 34.04'
5 Δ = 17°23'13"	6 Δ = 30°04'03"
R = 336.00'	R = 368.00'
L = 101.96'	L = 193.12'
T = 51.38'	T = 98.84'
7 Δ = 26°03'56"	8 Δ = 13°23'07"
R = 332.00'	R = 364.00'
L = 151.04'	L = 85.04'
T = 76.85'	T = 42.71'
9 Δ = 51°6'35"	10 Δ = 5°52'17"
R = 368.00'	R = 340.00'
L = 33.66'	L = 34.84'
T = 16.96'	T = 17.44'
11 Δ = 89°21'54"	12 Δ = 100°55'39"
R = 25.00'	R = 25.00'
L = 38.99'	L = 44.04'
T = 24.72'	T = 30.29'
13 Δ = 5°52'17"	14 Δ = 51°4'25"
R = 368.00'	R = 340.00'
L = 37.71'	L = 31.10'
T = 18.87'	T = 15.56'
15 Δ = 13°23'07"	16 Δ = 1°35'50"
R = 336.00'	R = 360.00'
L = 78.49'	L = 10.84'
T = 39.43'	T = 5.02'
17 Δ = 78°10'53"	18 Δ = 90°07'37"
R = 25.00'	R = 25.00'
L = 34.11'	L = 39.33'
T = 20.28'	T = 25.06'
19 Δ = 12°46'36"	20 Δ = 30°04'03"
R = 360.00'	R = 340.00'
L = 80.28'	L = 34.00'
T = 40.31'	T = 91.32'
21 Δ = 17°23'13"	22 Δ = 89°36'45"
R = 364.00'	R = 25.00'
L = 110.46'	L = 39.10'
T = 55.66'	T = 24.83'
23 Δ = 73°48'29"	24 Δ = 25°10'20"
R = 25.00'	R = 25.00'
L = 32.20'	L = 41.30'
T = 18.77'	T = 20.99'
25 Δ = 49°03'42"	26 Δ = 90°12'53"
R = 25.00'	R = 25.00'
L = 21.41'	L = 39.36'
T = 11.41'	T = 25.09'

CURVE DATA - DESCRIBES CENTERLINE

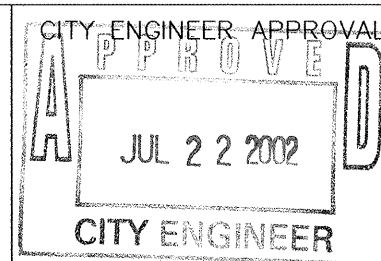
1 Δ = 95°25'46"	2 Δ = 24°06'12"
R = 240°06'12"	R = 150.00'
L = 129.91'	L = 63.10'
T = 85.77'	T = 32.03'
3 Δ = 17°23'13"	4 Δ = 30°04'03"
R = 350.00'	R = 354.00'
L = 106.21'	L = 185.77'
T = 53.52'	T = 95.08'
5 Δ = 26°03'56"	6 Δ = 13°23'07"
R = 346.00'	R = 350.00'
L = 157.41'	L = 81.77'
T = 80.09'	T = 41.07'
7 Δ = 51°4'25"	8 Δ = 5°50'07"
R = 354.00'	R = 354.00'
L = 32.38'	L = 36.28'
T = 16.20'	T = 18.04'

dmg

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

COUNTY OF BERNALILLO
PUBLIC WORKS DEPARTMENT

TITLE:
**RIO BRAVO COMMONS
PAVING IMPROVEMENTS**



CITY PROJECT NO.

ZONE MAP NO.

N/P-13

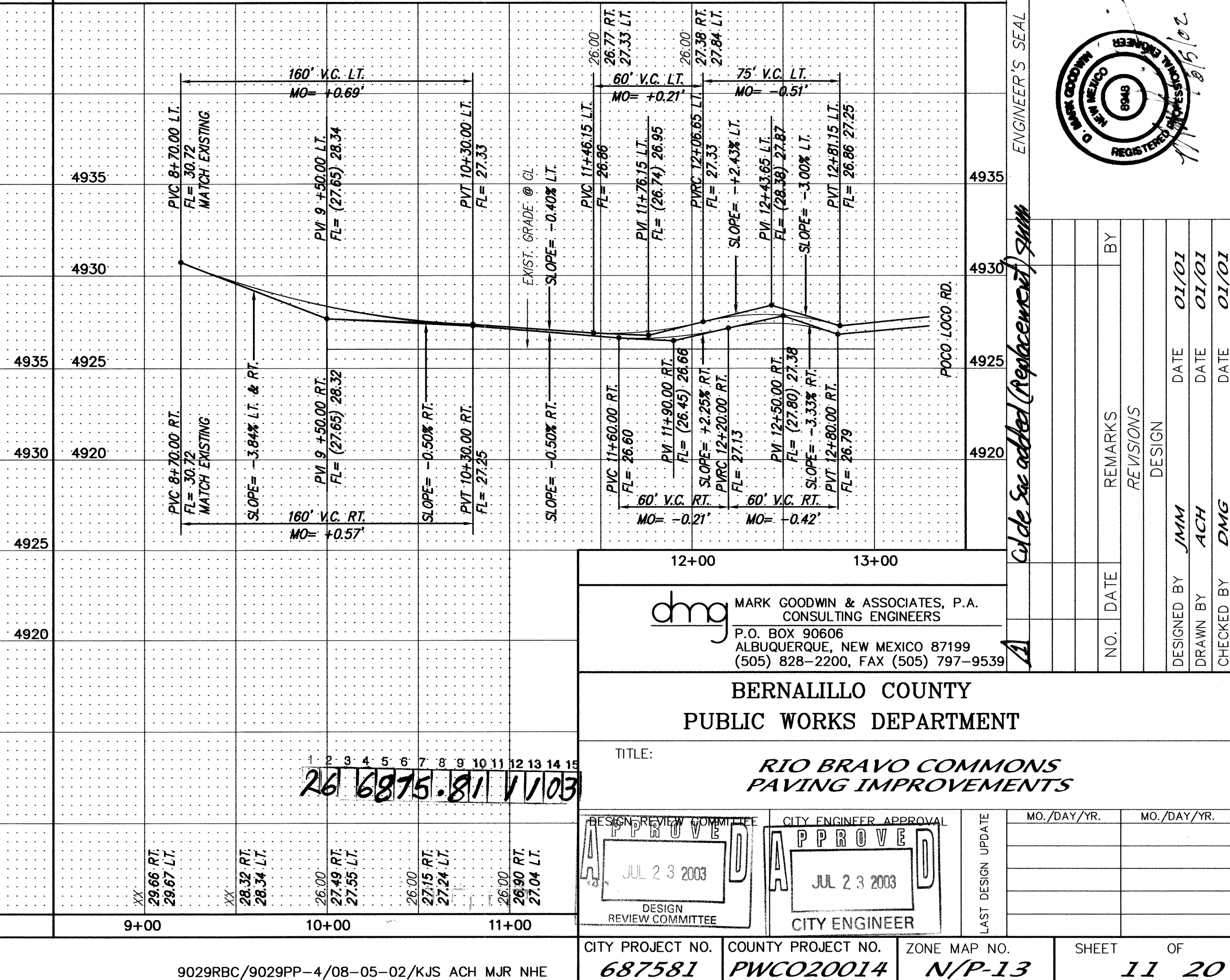
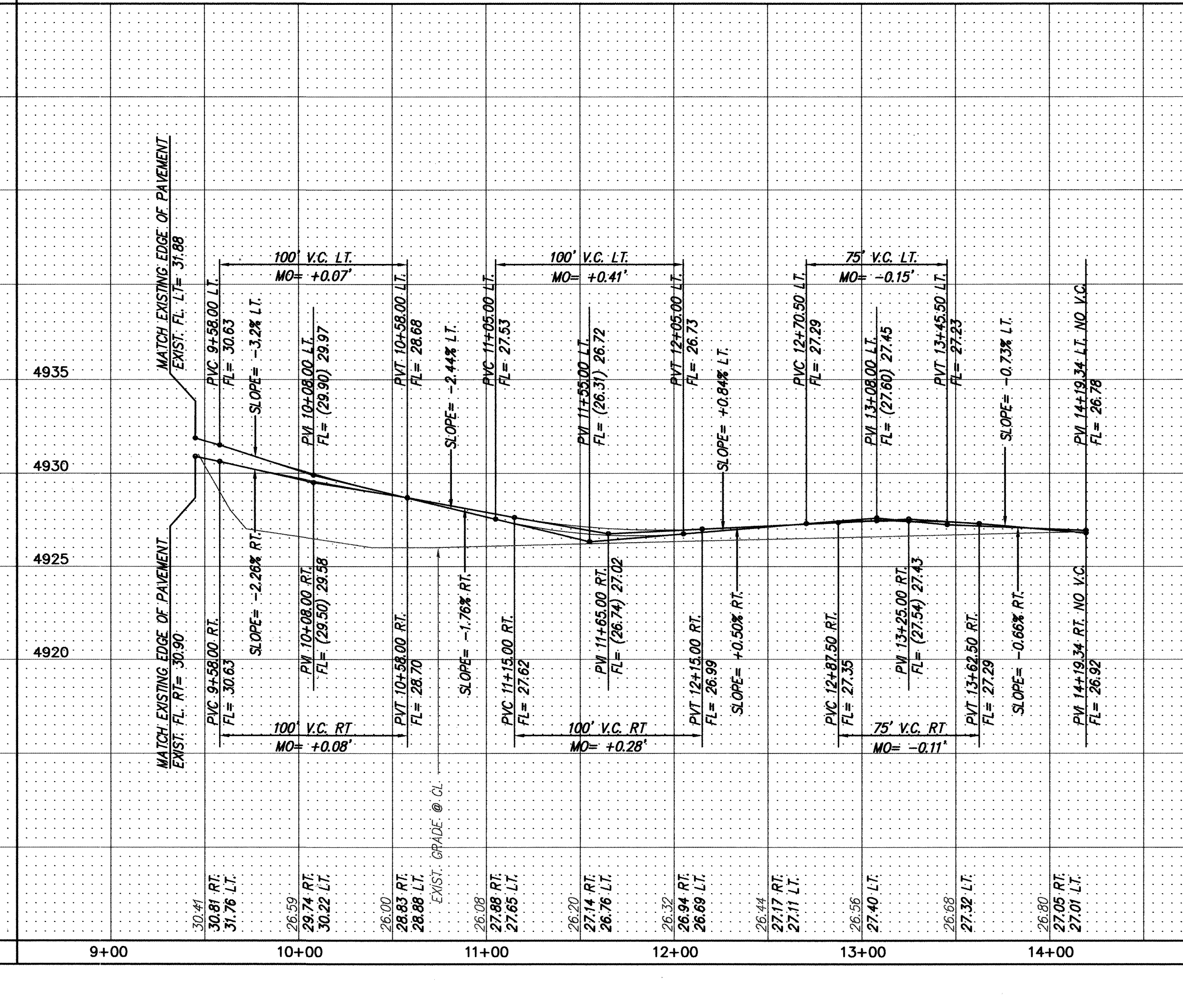
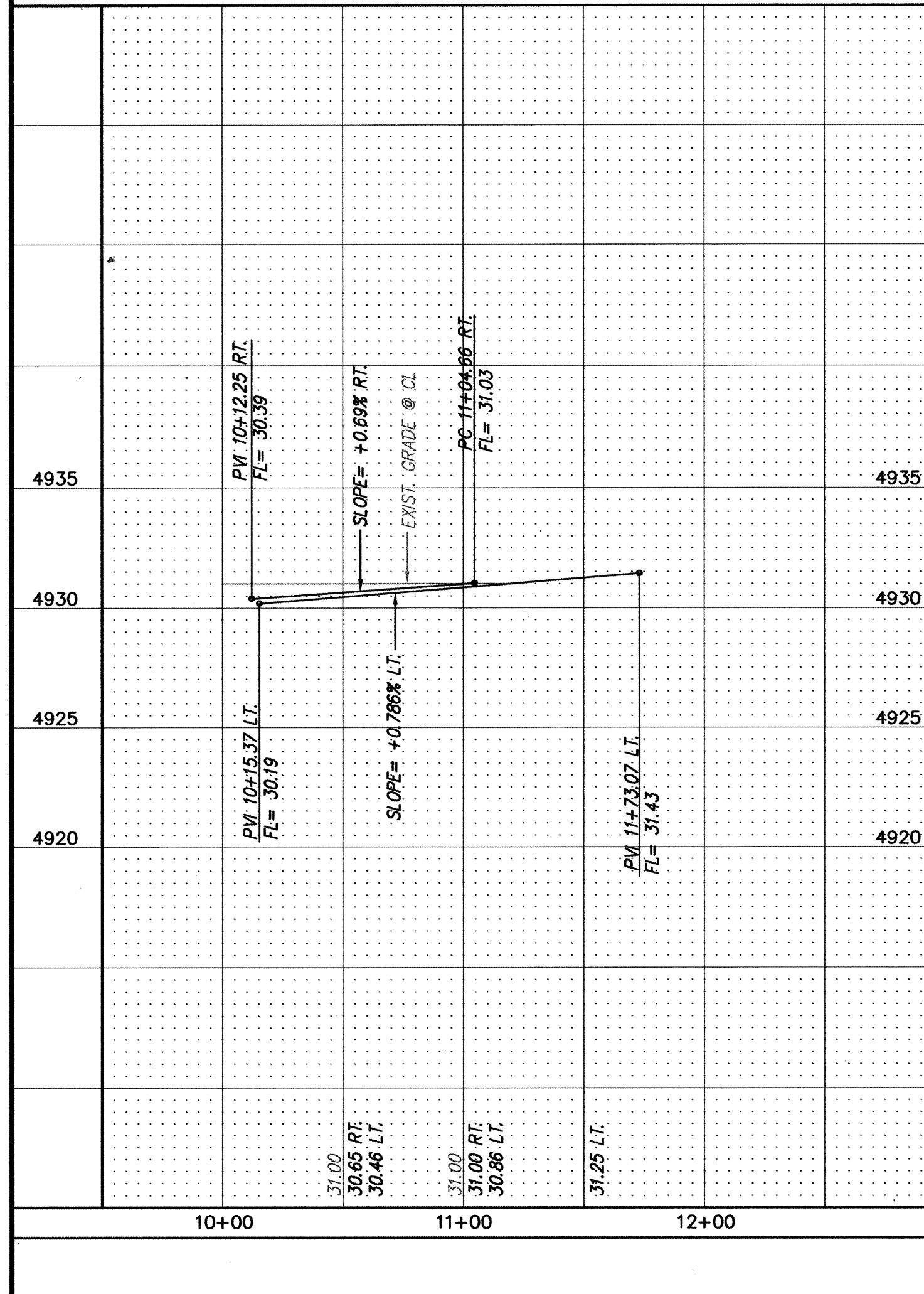
SHEET

OF

9 20

9029RBC/9029PP-1/03-01-02/KJS ACH

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES					
NO.	DATE	BY	DATE			CONTRACTOR	DATE
				ACS MONUMENT "5-P13". TO REACH THE STATION FROM THE INTERSECTION OF RIO BRAVO BLVD. AND I-25, GO WEST 1.8 MILES TO THE STATION WHICH IS IN THE N.E. ABUTMENT OF THE RIO BRAVO BLVD. BRIDGE OVER THE RIO GRANDE THE STATION IS A STANDARD 1/4" ALUMINUM CAP SET FLUSH IN CONCRETE PAVEMENT OF THE ABUTMENT AND STAMPED "5-P13, 1987".		FRANKLIN'S	02
						WORK DONE BY	DATE
						INSPECTOR'S ACCEPTANCE BY	DATE
NO.	DATE	REMARKS	BY			VERIFICATION BY	DATE
		REVISIONS				CORRECTED BY	DATE
		DESIGN				MICRO-FILM INFORMATION	
						RECORDED BY	DATE
						NO.	
DESIGNED BY	JMM	DATE	01/01				
DRAWN BY	ACH	DATE	01/01				
CHECKED BY	DWG	DATE	01/01				



SCANNED BY
MESA REPRO

CARTOUCHE DR.

CURVE DATA - DESCRIBES FACE OF CURB

- ① $\Delta = 78^{\circ}10'53''$
 $R = 25.00'$
 $L = 34.11'$
 $T = 20.31'$

② $\Delta = 180^{\circ}00'00''$
 $R = 14.00'$
 $L = 43.98'$
 $T = N/A$
- ③ $\Delta = 90^{\circ}07'37''$
 $R = 25.00'$
 $L = 39.33'$
 $T = 25.06'$

POCO LOCO RD.

CURVE DATA - DESCRIBES FACE OF CURB

- ① $\Delta = 89^{\circ}38'12''$
 $R = 50.00'$
 $L = 78.22'$
 $T = 49.88'$

③ $\Delta = 90^{\circ}28'03''$
 $R = 25.00'$
 $L = 39.47'$
 $T = 25.20'$

⑤ $\Delta = 4^{\circ}34'20''$
 $R = 100.00'$
 $L = 7.98'$
 $T = 3.99'$

⑦ $\Delta = 25^{\circ}10'20''$
 $R = 94.00'$
 $L = 41.30'$
 $T = 20.99'$

⑨ $\Delta = 90^{\circ}12'53''$
 $R = 25.00'$
 $L = 39.36'$
 $T = 25.09'$

⑪ $\Delta = 32^{\circ}10'37''$
 $R = 96.00'$
 $L = 53.85'$
 $T = 27.69'$

⑬ $\Delta = 21^{\circ}29'44''$
 $R = 60.00'$
 $L = 22.51'$
 $T = 11.39'$

⑮ $\Delta = 166^{\circ}44'39''$
 $R = 20.00'$
 $L = 67.46'$
 $T = N/A$
- ④ $\Delta = 67^{\circ}15'24''$
 $R = 25.00'$
 $L = 29.35'$
 $T = 16.63'$

⑥ $\Delta = 102^{\circ}27'02''$
 $R = 60.00'$
 $L = 107.29'$
 $T = 74.69'$

⑧ $\Delta = 49^{\circ}03'42''$
 $R = 25.00'$
 $L = 21.41'$
 $T = 11.41'$

⑩ $\Delta = 93^{\circ}22'39''$
 $R = 25.00'$
 $L = 40.74'$
 $T = 26.52'$

⑫ $\Delta = 79^{\circ}41'02''$
 $R = 25.00'$
 $L = 34.77'$
 $T = 20.86'$

⑭ $\Delta = 32^{\circ}38'25''$
 $R = 74.00'$
 $L = 42.16'$
 $T = 21.67'$

⑯ $\Delta = 90^{\circ}21'48''$
 $R = 50.00'$
 $L = 78.86'$
 $T = 50.32'$

CURVE DATA - DESCRIBES CENTERLINE

- ① $\Delta = 7^{\circ}06'11''$
 $R = 75.00'$
 $L = 47.34'$
 $T = 4.65'$

② $\Delta = 36^{\circ}10'06''$
 $R = 75.00'$
 $L = 47.34'$
 $T = 24.49'$
- ③ $\Delta = 95^{\circ}25'46''$
 $R = 78.00'$
 $L = 129.91'$
 $T = 85.77'$

POCO LOCO - FRONTAGE RD.

CURVE DATA - DESCRIBES FACE OF CURB

- ① $\Delta = 93^{\circ}17'34''$
 $R = 49.00'$
 $L = 79.79'$
 $T = 51.90'$

③ $\Delta = 79^{\circ}41'02''$
 $R = 25.00'$
 $L = 34.77'$
 $T = 20.86'$

⑤ $\Delta = 32^{\circ}38'25''$
 $R = 74.00'$
 $L = 42.16'$
 $T = 21.67'$
- ② $\Delta = 166^{\circ}44'39''$
 $R = 20.00'$
 $L = 67.46'$
 $T = N/A$

④ $\Delta = 21^{\circ}29'44''$
 $R = 60.00'$
 $L = 22.51'$
 $T = 11.39'$

⑥ $\Delta = 93^{\circ}17'34''$
 $R = 21.00'$
 $L = 34.19'$
 $T = 22.24'$

CURVE DATA - DESCRIBES CENTERLINE

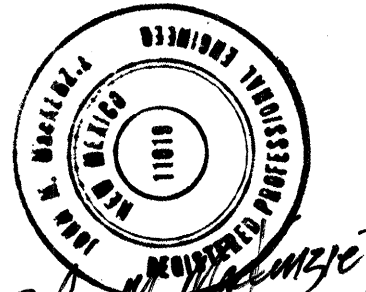
- ① $\Delta = 93^{\circ}17'34''$
 $R = 35.00'$
 $L = 56.99'$
 $T = 37.07'$

② $\Delta = 70^{\circ}03'08''$
 $R = 40.00'$
 $L = 48.91'$
 $T = 28.04'$

NOTES

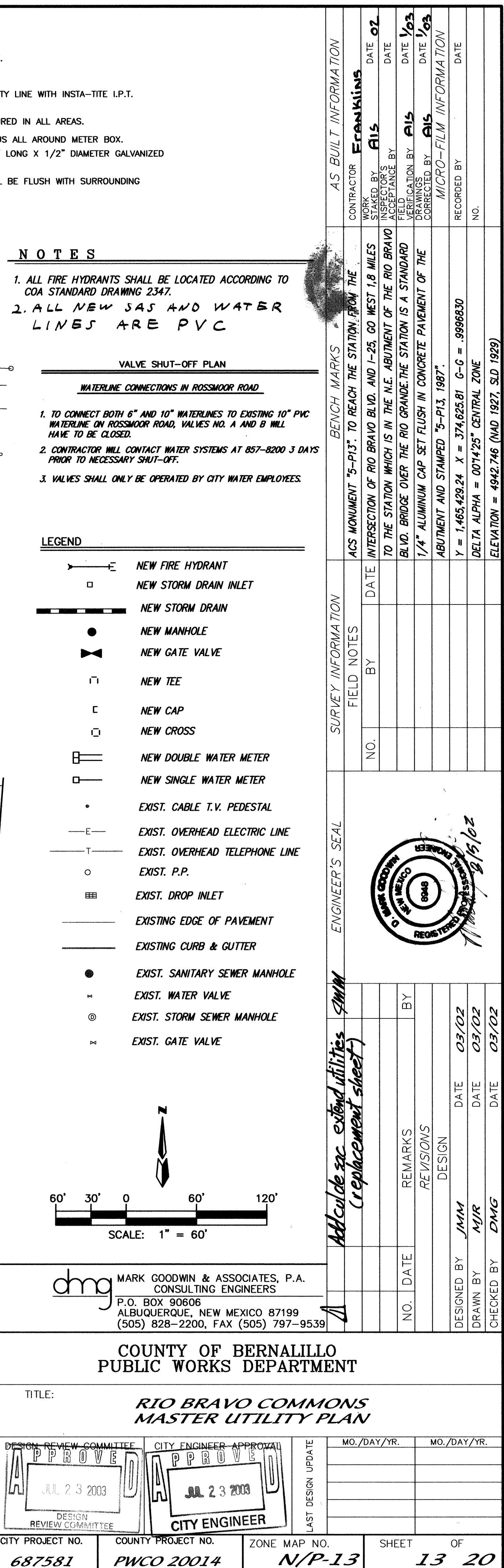
1. ALL STATIONING IS CENTERLINE STATIONING.

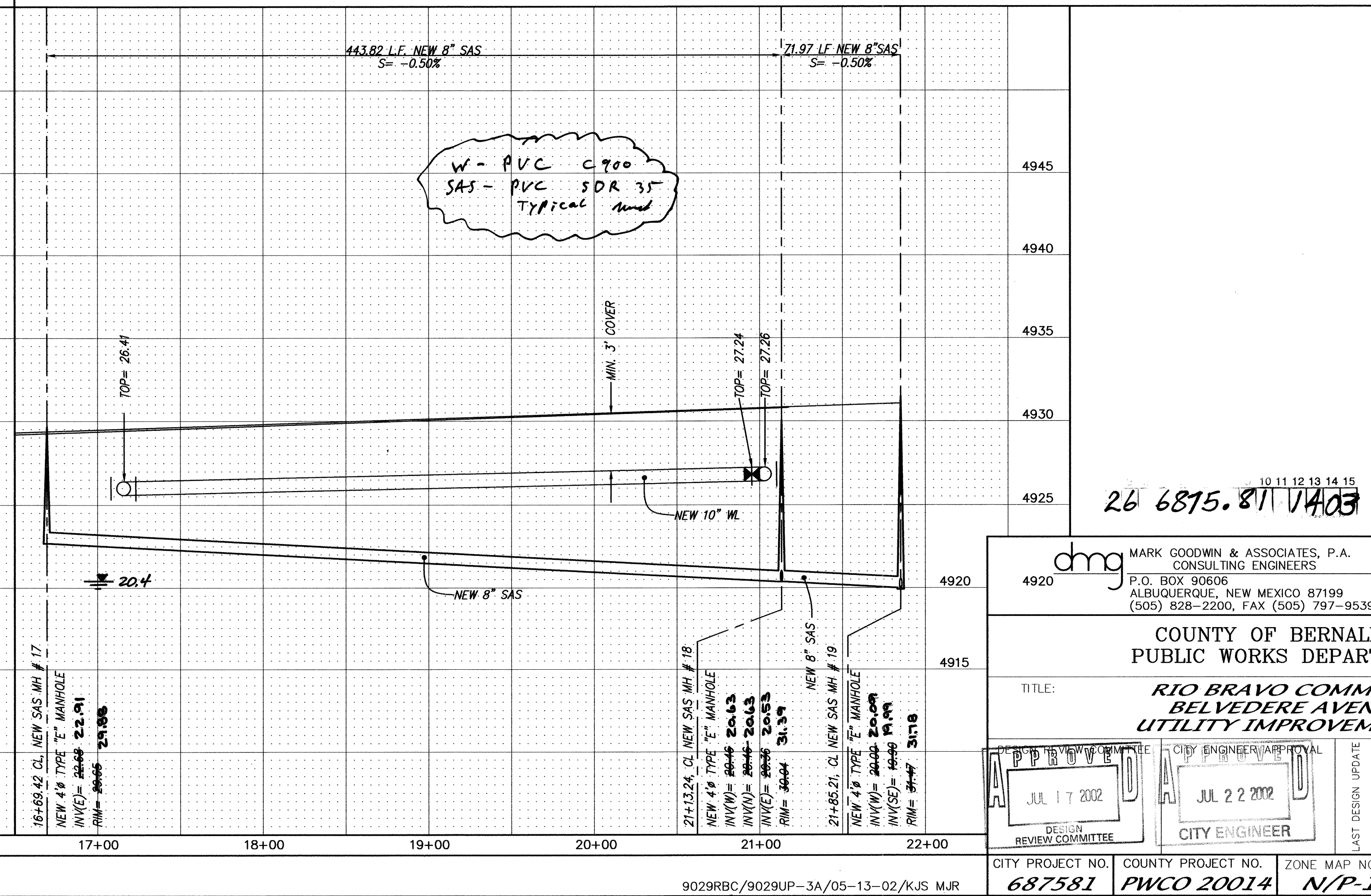
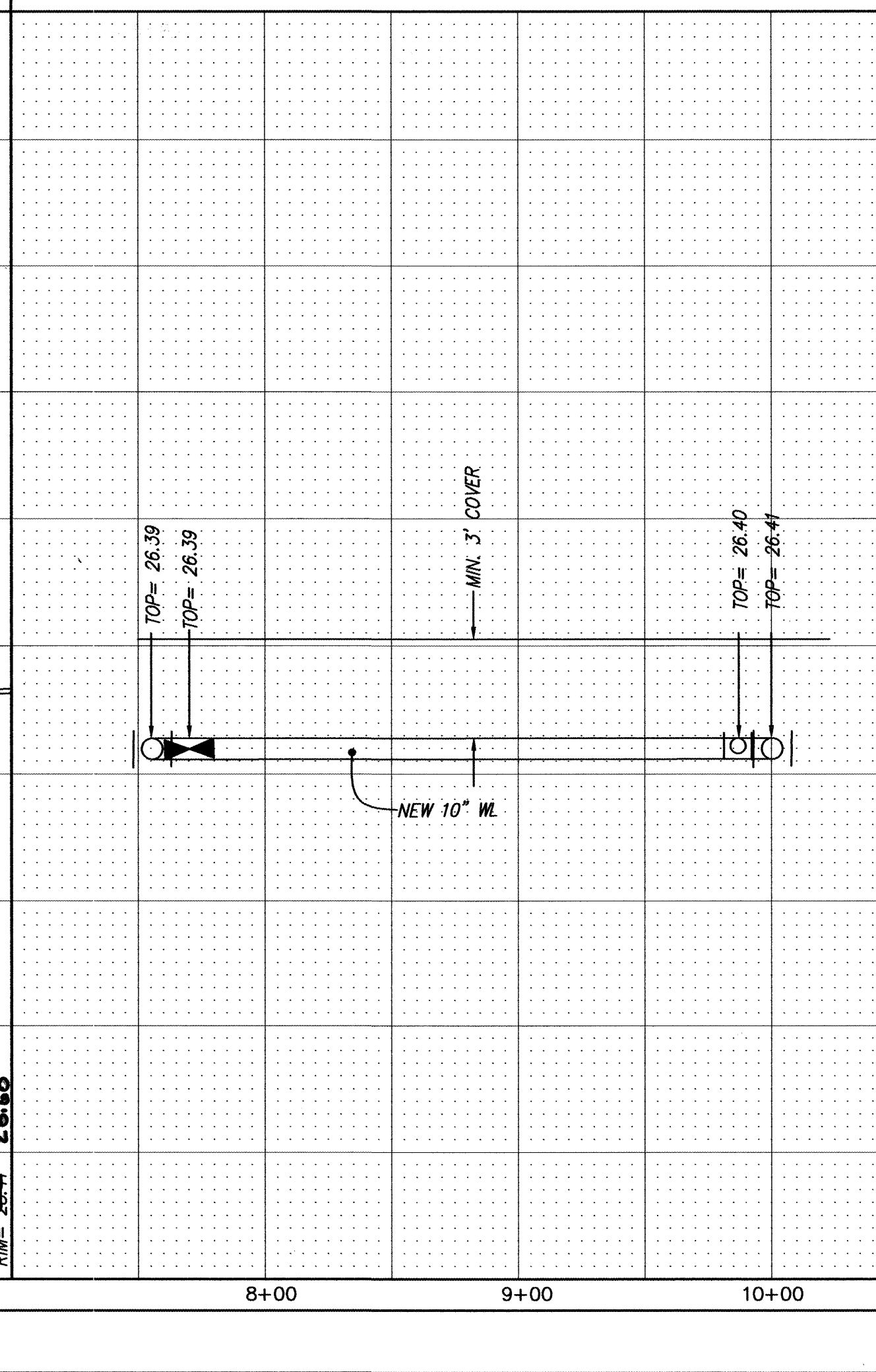
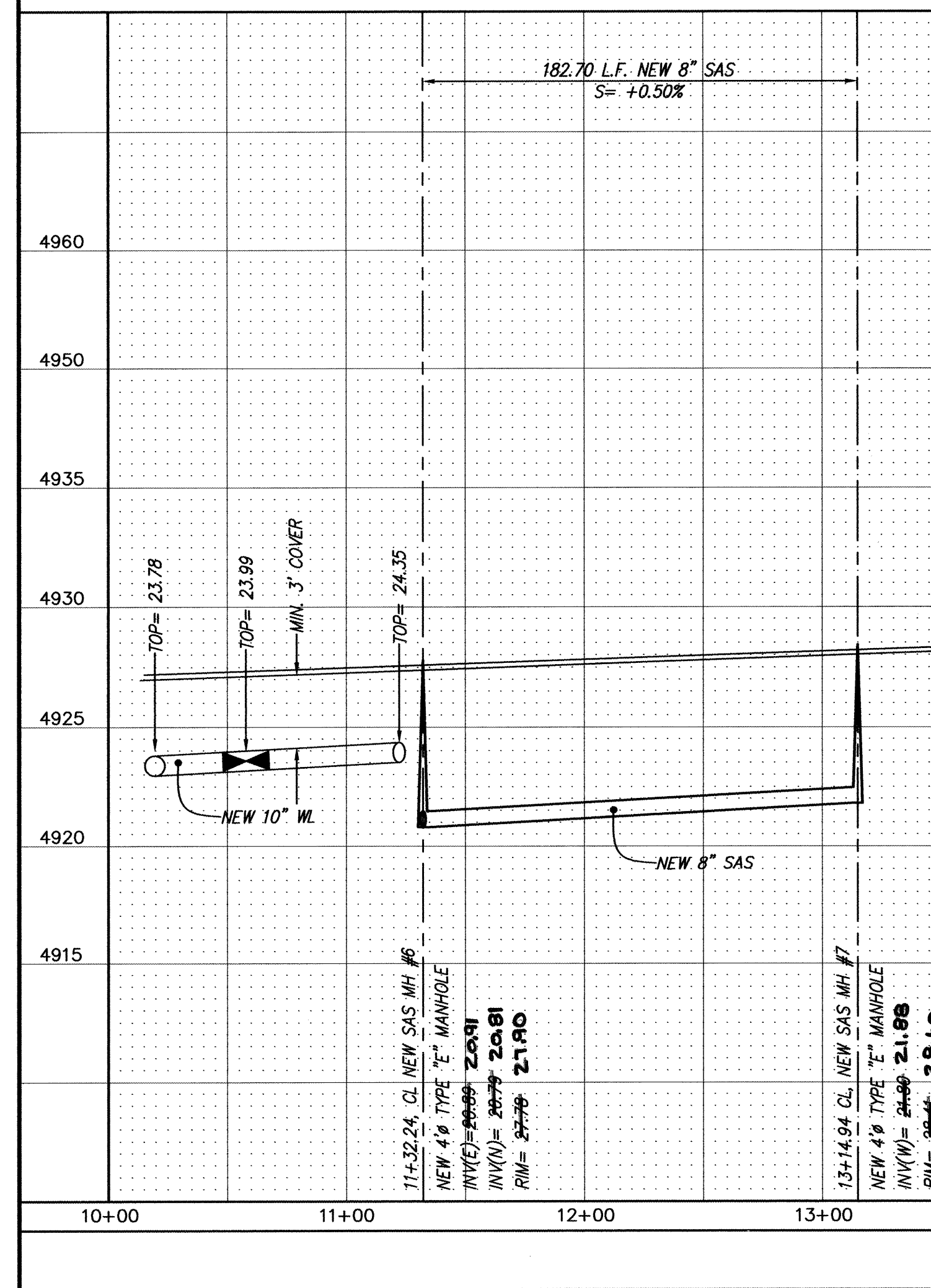
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	WORK	ACS MONUMENT	FIELD NOTES	NO.	BY	DATE	
Franklin's	02	"5-PI3"					
INSPECTED BY	DATE						
ACCEPTANCE BY	DATE						
VEGETATION BY	DATE						
DRAWINGS	DATE						
SCHEMATIC	DATE						
MICRO-FILM INFORMATION							
RECORDED BY	DATE						
NO.							



dmg MARK GOODWIN & ASSOCIATES, P.A. CONSULTING ENGINEERS P.O. BOX 90606 ALBUQUERQUE, NEW MEXICO 87199 (505) 828-2200, FAX (505) 797-9539		COUNTY OF BERNALILLO PUBLIC WORKS DEPARTMENT	
TITLE: RIO BRAVO COMMONS PAVING IMPROVEMENTS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER-APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.
APPROVED JUL 17 2002	APPROVED JUL 22 2002		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
CITY PROJECT NO.	COUNTY PROJECT NO.	ZONE MAP NO.	SHEET OF
687581	PWCO20014	N/P-13	12 20

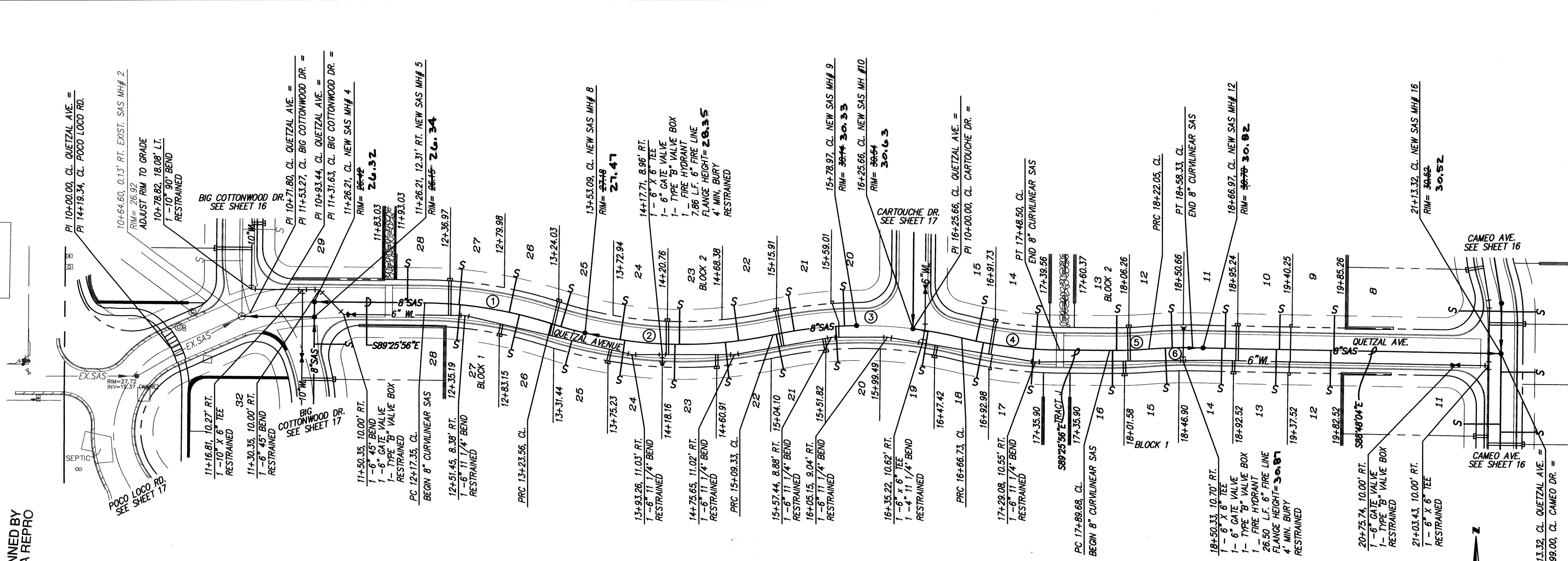
2 3 4 5 6 7 8 9 10 11 12 13 14 15
20 687581 13/1/2003





John M. Williams 05-15-02 ENGINEER'S SEAL				BENCH MARKS ACCS MONUMENT "5-P13". TO REACH THE STATION MARKS:		SURVEY INFORMATION FIELD NOTES		AS BUILT INFORMATION CONTRACTOR Franklins	
		NO. BY		DATE DATE		WORK RECORDED BY AIS INSPECTOR'S ACCEPTANCE BY AIS		DATE 02 DATE	
				TO THE STATION WHICH IS IN THE N.E. ABUTMENT OF THE RIO BRAVO BLVD. BRIDGE OVER THE RIO GRANDE THE STATION IS A STANDARD		FIELD DRAWINGS DATE 103		DATE 103 DATE	
				1/4" ALUMINUM CAP SET FLUSH IN CONCRETE PAVEMENT OF THE ABUTMENT AND STAMPED "5-P13, 1987".		CORRECTED BY AIS MICRO-FILM INFORMATION		DATE DATE	
				Y = 1,465,429.24 X = 374,625.81 G-G = 99066330 DELTA ALPHA = 0014'25" CENTRAL ZONE		RECORDED BY NO.		DATE DATE	
				ELEVATION = 4942.746 (NAD 1927, SLD 1929)					

SCANNED BY
MESA REPRO



I, John M. MacKenzie, NMPE 11619, 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.

John M. MacKenzie 6-16-03
Professional Engineer
Mark Goodwin & Associates, P.A.

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA - DESCRIBES 8" CURVILINEAR SAS

① $\Delta = 1723'13"$ $R = 350.00'$ $L = 106.21'$ $T = 53.52'$	② $\Delta = 3004'03"$ $R = 354.00'$ $L = 185.77'$ $T = 95.08'$
③ $\Delta = 2603'56"$ $R = 346.00'$ $L = 157.41'$ $T = 80.09'$	④ $\Delta = 1323'07"$ $R = 350.00'$ $L = 81.77'$ $T = 41.07'$
⑤ $\Delta = 514'25"$ $R = 354.00'$ $L = 32.38'$ $T = 16.20'$	⑥ $\Delta = 530'07"$ $R = 354.00'$ $L = 36.28'$ $T = 18.04'$

SANITARY SEWER SERVICES

BLOCK	LOT	STATION AT PUE	INV. AT PUE	LENGTH AT PUE
1	27	12+46.68	21.92	29.00'
1	26	12+96.38	22.18	29.00'
1	25	13+43.68	22.43	29.00'
1	24	13+81.03	22.79	29.00'
1	23	14+27.74	23.03	29.00'
1	22	14+68.41	23.28	29.00'
1	21	15+12.04	23.53	29.00'
1	20	15+61.09	23.83	29.00'
1	19	16+38.32	26.01	29.00'
1	18	16+85.09	25.59	29.00'
1	17	17+26.98	25.14	29.00'
1	16	17+92.02	24.60	29.00'
1	15	18+35.77	24.17	29.00'
1	14	18+82.63	23.69	29.00'
1	13	19+27.63	23.47	29.00'
1	12	19+42.63	23.25	29.00'
2	28	12+03.02	21.68	29.00'
2	27	12+43.71	21.91	29.00'
2	26	12+87.71	22.13	29.00'
2	25	13+32.01	22.37	29.00'
2	24	13+82.16	22.76	29.00'
2	23	14+31.33	23.05	29.00'
2	22	14+80.51	23.34	29.00'
2	21	15+27.18	23.62	29.00'
2	20	15+68.97	23.87	29.00'
2	19	16+38.32	26.01	29.00'
2	18	16+85.09	25.59	29.00'
2	17	17+26.98	25.14	29.00'
2	16	17+92.02	24.60	29.00'
2	15	18+35.77	24.17	29.00'
2	14	18+82.63	23.69	29.00'
2	13	19+27.63	23.47	29.00'
2	12	19+42.63	23.25	29.00'
2	11	18+85.14	23.68	29.00'
2	10	19+30.14	23.50	29.00'
2	9	19+75.14	23.30	29.00'

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

PIPE SIZE	90°	45°	22.5°	VALVE
6"	17'	7'	3'	46'

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
6"x6"x6"	10'	2'
6"x6"x4"	4'	7'

26 68751.871 V593

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
ENGINEERING DEVELOPMENT GROUP**

TITLE: **RIO BRAVO COMMONS
UTILITY IMPROVEMENTS**

DESIGN REVIEW COMMITTEE
JUL 23 2003

CITY ENGINEER APPROVAL
JUL 23 2003

LAST DESIGN UPDATE

CITY PROJECT NO. **68751** COUNTY PROJECT NO. **PWCO 20014** ZONE MAP NO. **N/P-13** SHEET **15** OF **20**

AS BUILT INFORMATION

CONTRACTOR: **FRANKINS**
WORK STARTED BY: **ALIS**
DATE: **01/01**

BENCH MARKS

ACS MONUMENT "5-PI3" TO REACH THE STATION FROM THE INTERSECTION OF RIO BRAVO BLVD. AND I-25. GO WEST 1.8 MILES TO THE STATION WHICH IS IN THE N.E. ABUTMENT OF THE RIO BRAVO BLVD. BRIDGE OVER THE RIO GRANDE. THE STATION IS A STANDARD 1/4" ALUMINUM CAP SET FLUSH IN CONCRETE PAVEMENT OF THE ABUTMENT AND STAMPED "5-PI3, 1987".

SURVEY INFORMATION

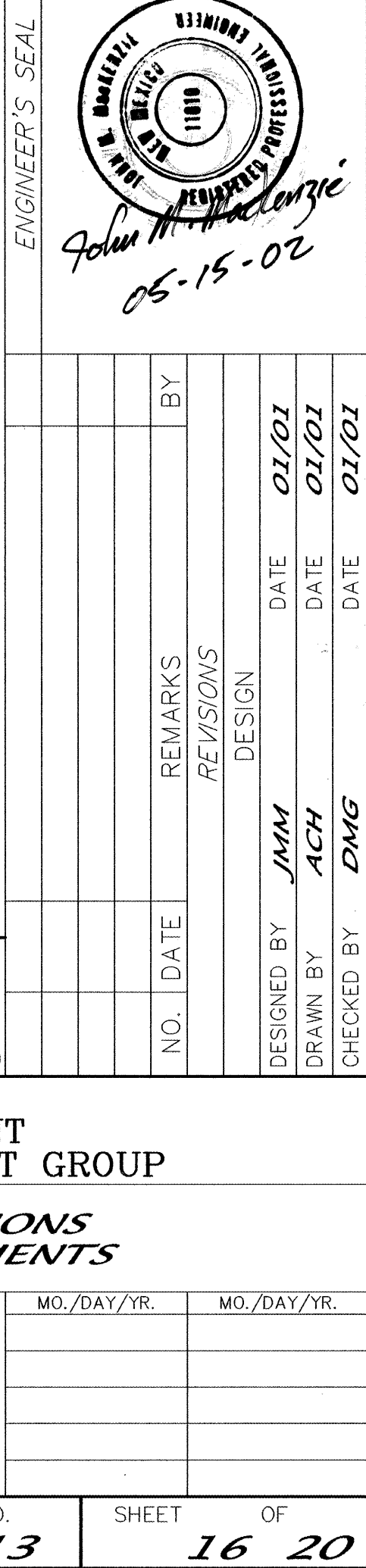
FIELD NOTES BY: **NO.** DATE: **NO.** BY: **NO.**

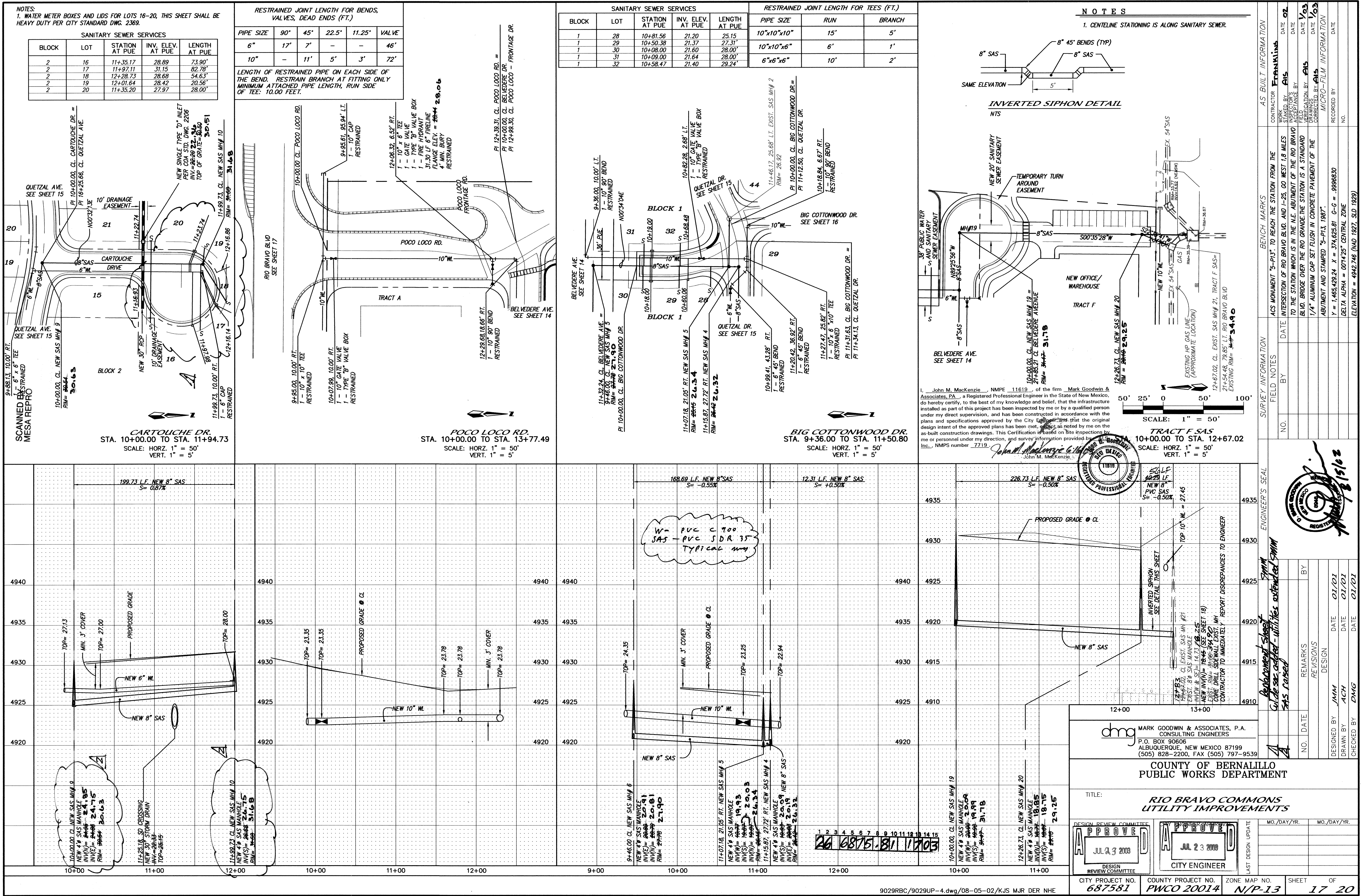
ENGINEER'S SEAL

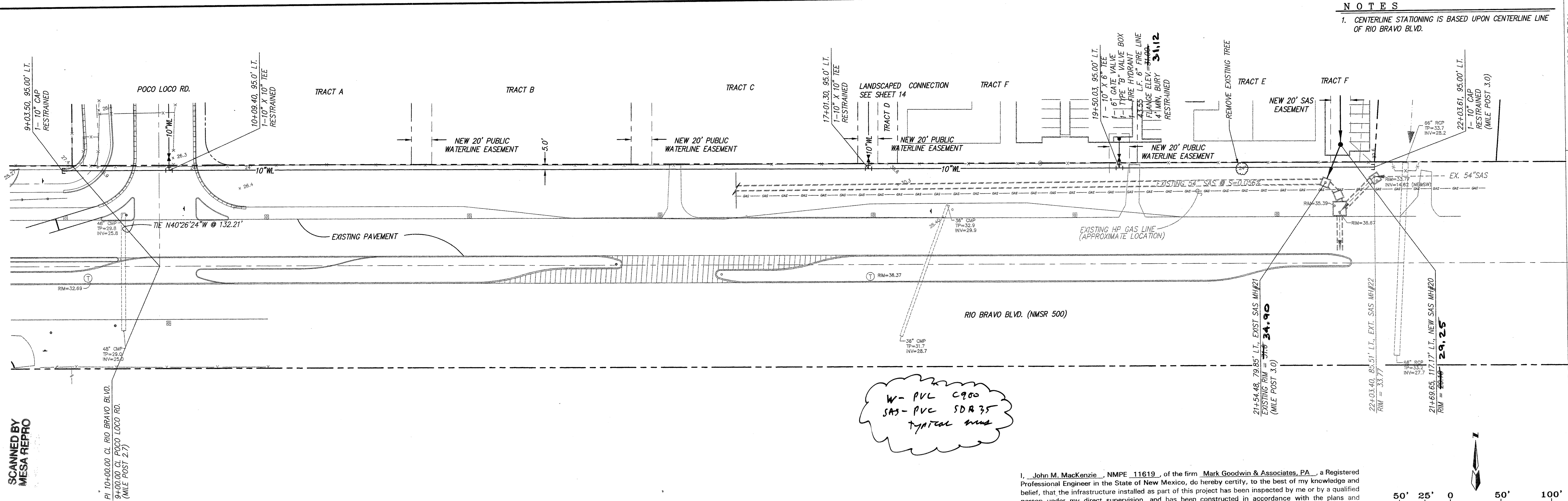
John M. MacKenzie 6-16-03
Professional Engineer
Mark Goodwin & Associates, P.A.

REVISIONS

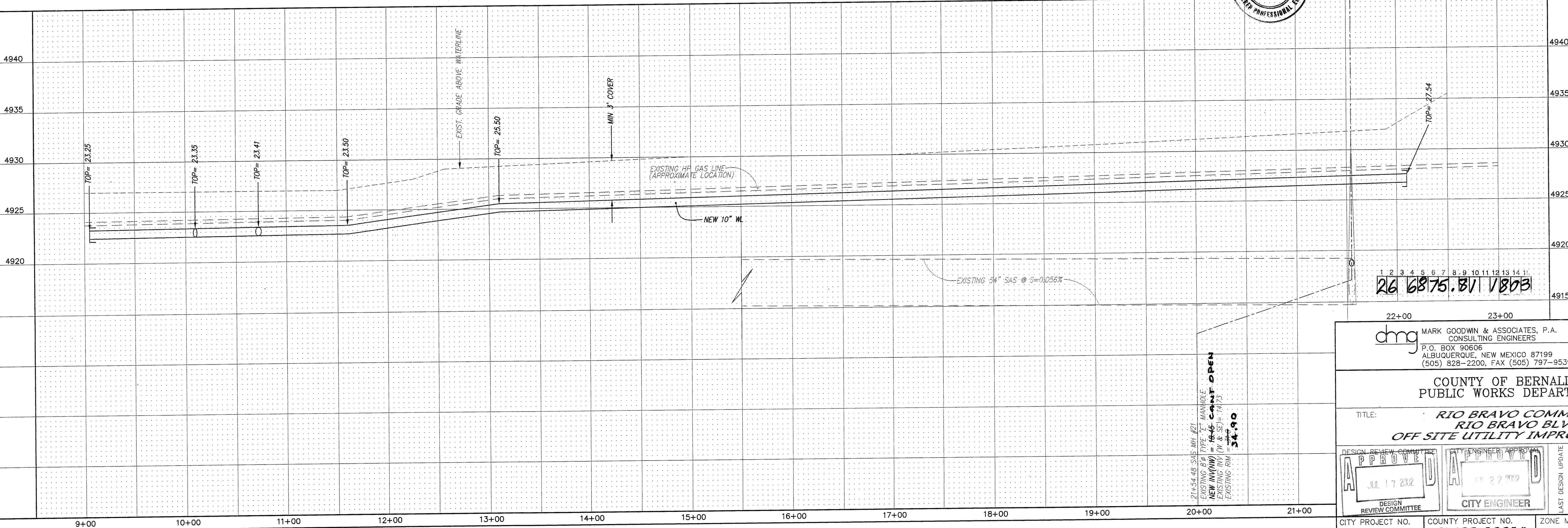
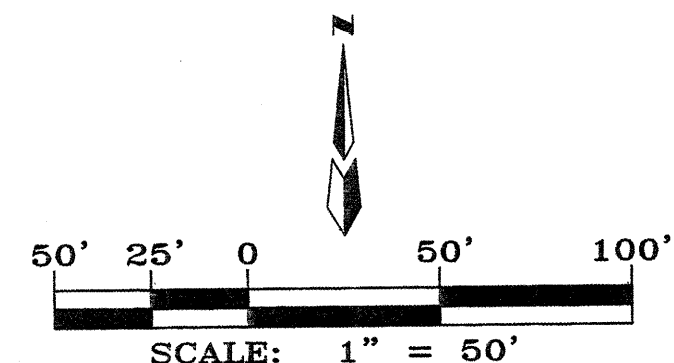
NO.	DATE	REMARKS	BY
1	01/01	DESIGN	JMM
2	01/01	DATE	ACH
3	01/01	DATE	DMG







I, John M. MacKenzie, NMPS# 11619, of the firm Mark Goodwin & Associates, PA, 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.



21+54.48	S&S MH #21	TYPE "E" MANHOLE	
EXISTING 8"			
NEW INV(NW)		= 19.45	C&T OPEN
EXISTING INV		(W & SE) = 14.73	
EXISTING RIM		= 34.90	

dmg MARK GOODWIN & ASSOCIATES, P.A.
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(505) 828-2200, FAX (505) 797-9539

COUNTY OF BERNALILLO
PUBLIC WORKS DEPARTMENT

*RIO BRAVO COMMONS
RIO BRAVO BLVD.
OFF SITE UTILITY IMPROVEMENTS*

DESIGN REVIEW COMMITTEE

APPROVED

JUL 17 2002

DESIGN
REVIEW COMMITTEE



CITY ENGINEER APPROVAL

APPROVED

NO 22 2019

CITY ENGINEER

LAST DESIGN UPDATE

CITY PROJECT NO. <i>687581</i>	COUNTY PROJECT NO. <i>PWCO 20014</i>	ZONE MAP NO. <i>N/P-13</i>	SHEET OF <i>18 20</i>
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SURVEY INFORMATION			BENCH MARKS		AS BUILT INFORMATION			
FIELD NOTES								
NO.	BY	DATE			CONTRACTOR	WORKS BY	DATE	DATE
ACS MONUMENT "5-P13", TO REACH THE STATION FROM THE INTERSECTION OF RIO BRAVO BLVD. AND I-25, GO WEST 1.8 MILES TO THE STATION WHICH IS IN THE N.E. ABUTMENT OF THE RIO BRAVO BLVD. BRIDGE OVER THE RIO GRANDE THE STATION IS A STANDARD 1/4" ALUMINUM CAP SET FLUSH IN CONCRETE PAVEMENT OF THE ABUTMENT AND STAMPED "5-P13, 1987". Y = 1,465.429.24 X = 374.625.81 G-G = .9996530 DELTA ALPHA = .001425" CENTRAL ZONE ELEVATION = 4942.746 (NAD 1927, SLD 1928)						A15	02	
					INSPECTOR'S ACCEPTANCE BY	V-63		
					VERIFICATION BY	A15		
					DRAWN BY	A15		
					SUBMITTED BY	MICRO-FILM INFORMATION		
					RECORDED BY			
					NO.			

ENGINEER'S SEAL

6

35

11010

NEW BRIDGE

MADE IN HONOLULU

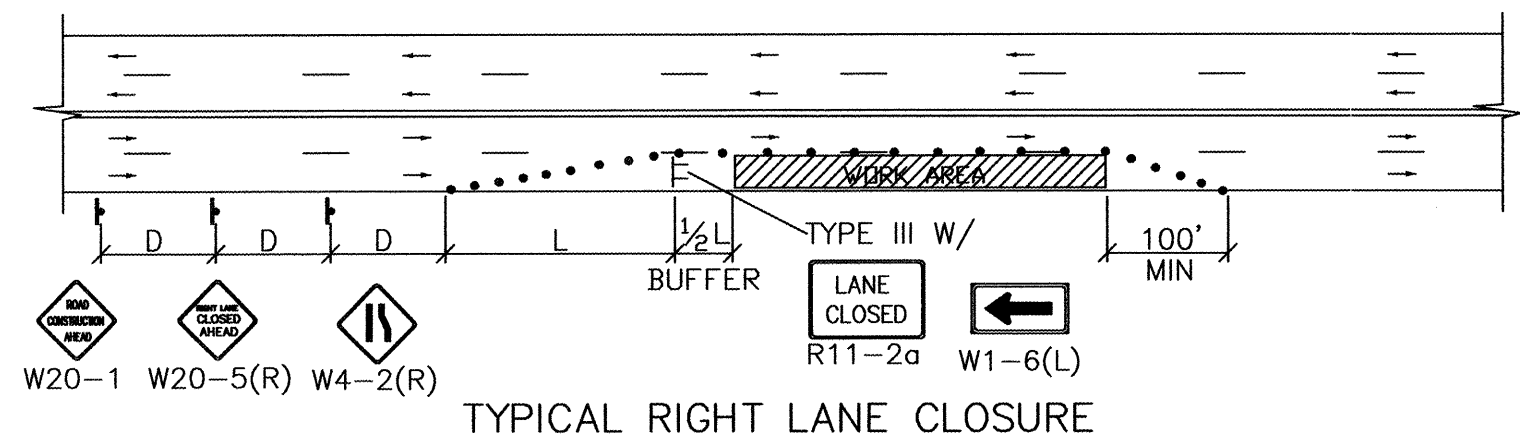
7-11-02

John W. Madensie

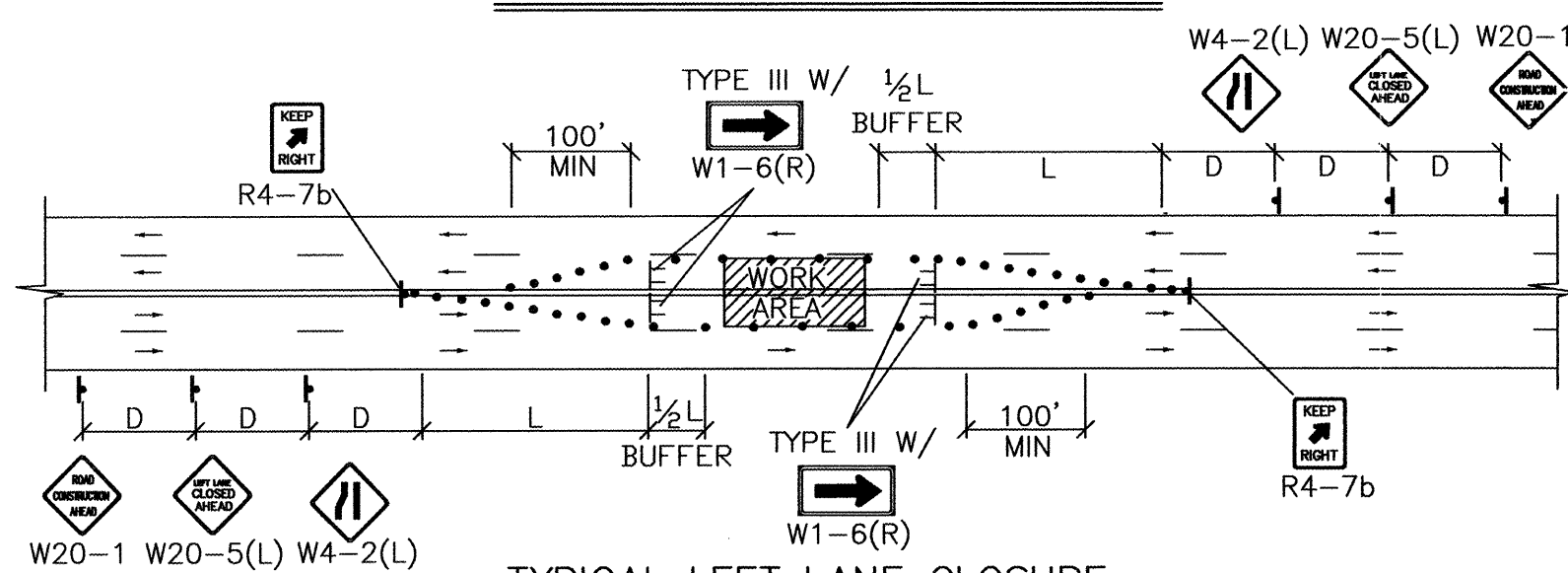
39						
15						
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	NO.	DATE	REMARKS	BY		
	REVISIONS					
	DESIGN					
	DESIGNED BY	JMM	DATE	3/02		
	DRAWN BY	KMS	DATE	3/02		
	CHECKED BY	DMG	DATE	3/02		

HILLO TMENT	
MONS WD. MOVEMENTS	
MO./DAY/YR.	MO./DAY/YR.
MAP NO.	SHEET OF
P-13	18 20

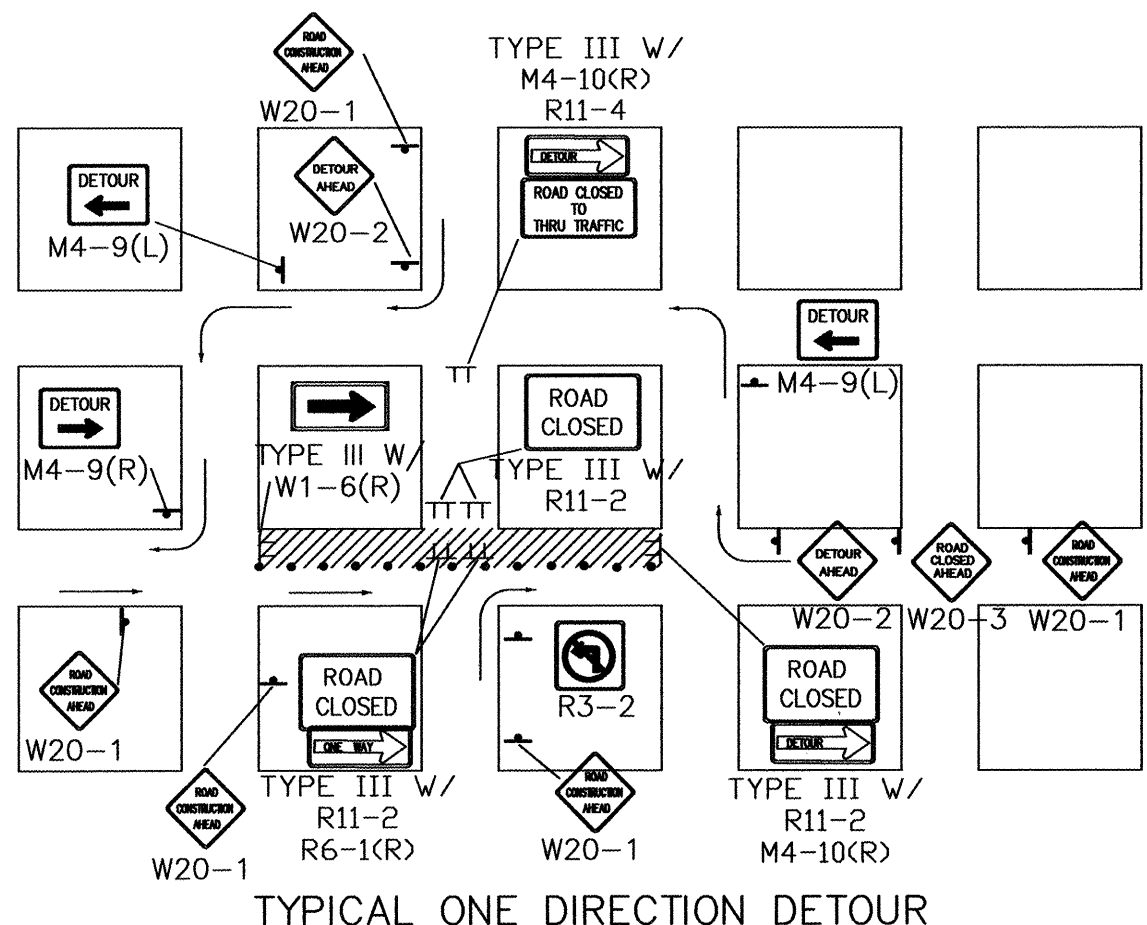
SCANNED BY
MESA REPRO



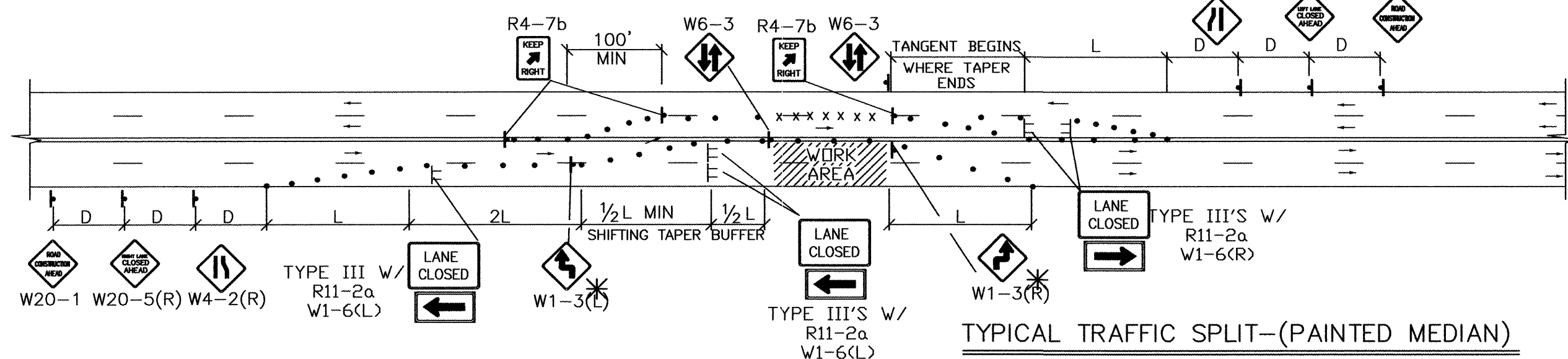
TYPICAL RIGHT LANE CLOSURE



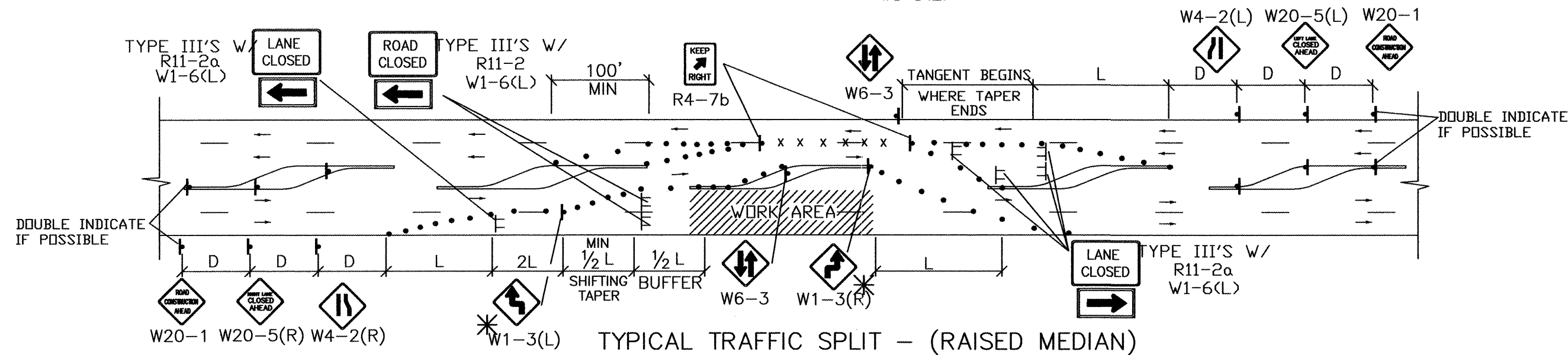
TYPICAL LEFT LANE CLOSURE



TYPICAL ONE DIRECTION DETOUR



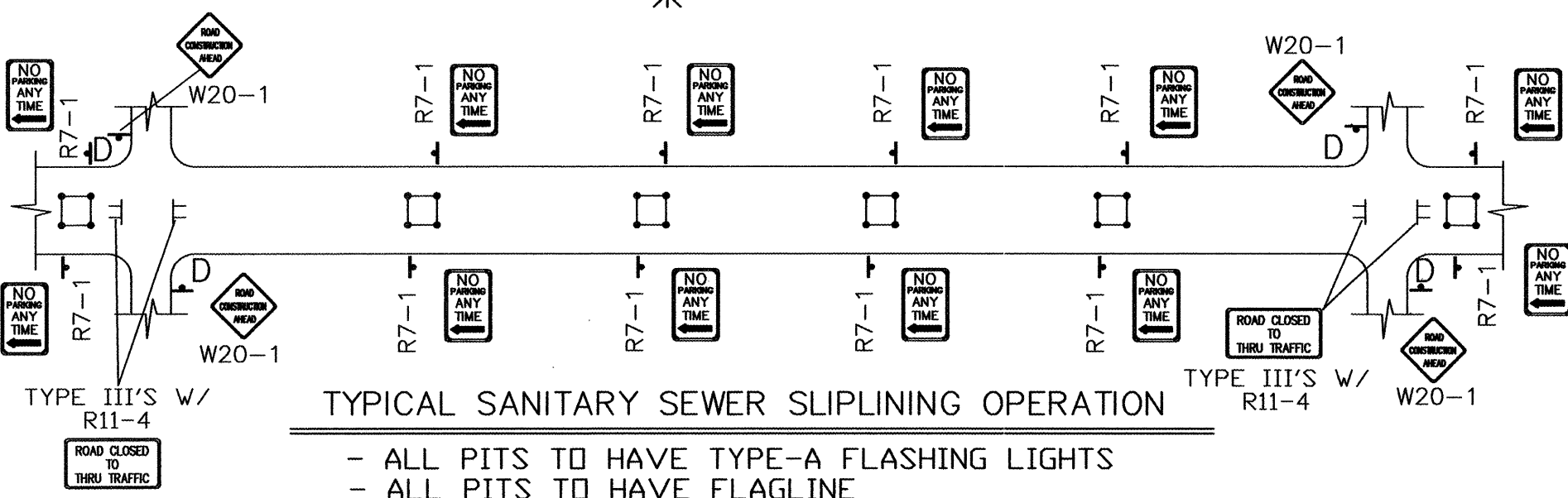
TYPICAL TRAFFIC SPLIT - (PAINTED MEDIAN)



TYPICAL TRAFFIC SPLIT - (RAISED MEDIAN)

TRAFFIC SPLIT NOTES:

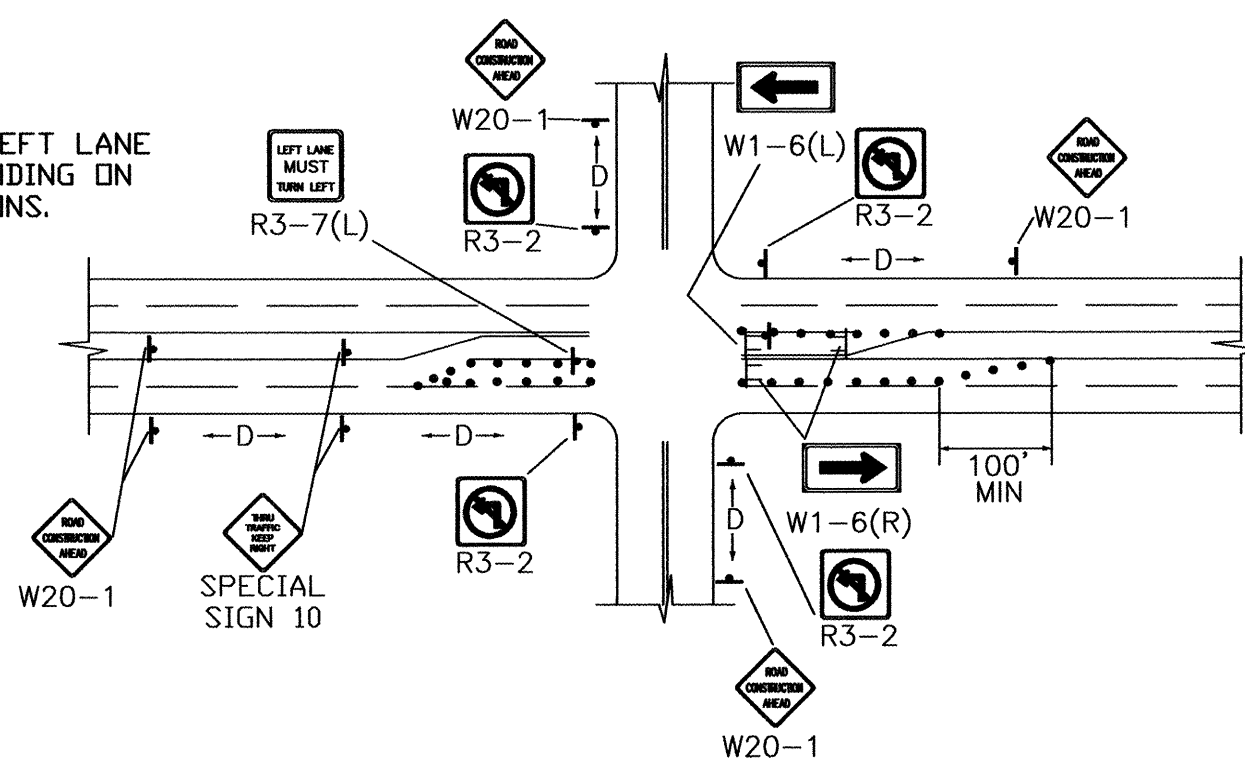
1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
2. 1/2 L IS THE MINIMUM DISTANCE FOR SHIFTING TAPERS.
3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
4. MEDIAN REMOVAL SHALL BE REQUIRED IF 1/2 L OR REVERSE CURVE IS NOT SUFFICIENT. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS.
5. REDUCED SPEED MAY BE CONSIDERED.
6. * USE W1-3 FOR 30 MPH OR LESS, W1-4 FOR SPEED 35 MPH OR GREATER.



TYPICAL SANITARY SEWER SLIPLINING OPERATION

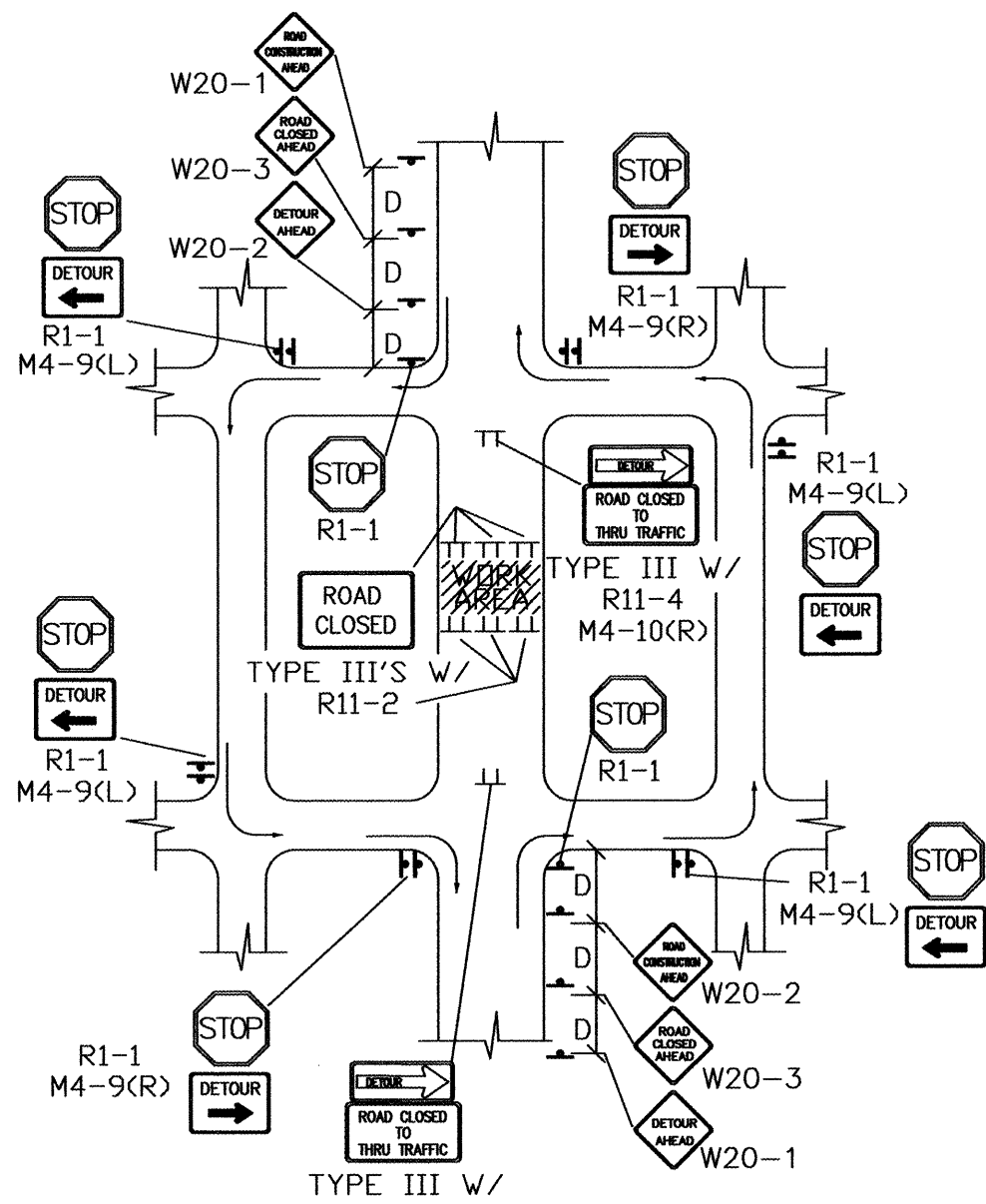
- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS
- ALL PITS TO HAVE FLAGLINE

NOTE:
MAY REQUIRE LEFT LANE
CLOSURE DEPENDING ON
FIELD CONDITIONS.



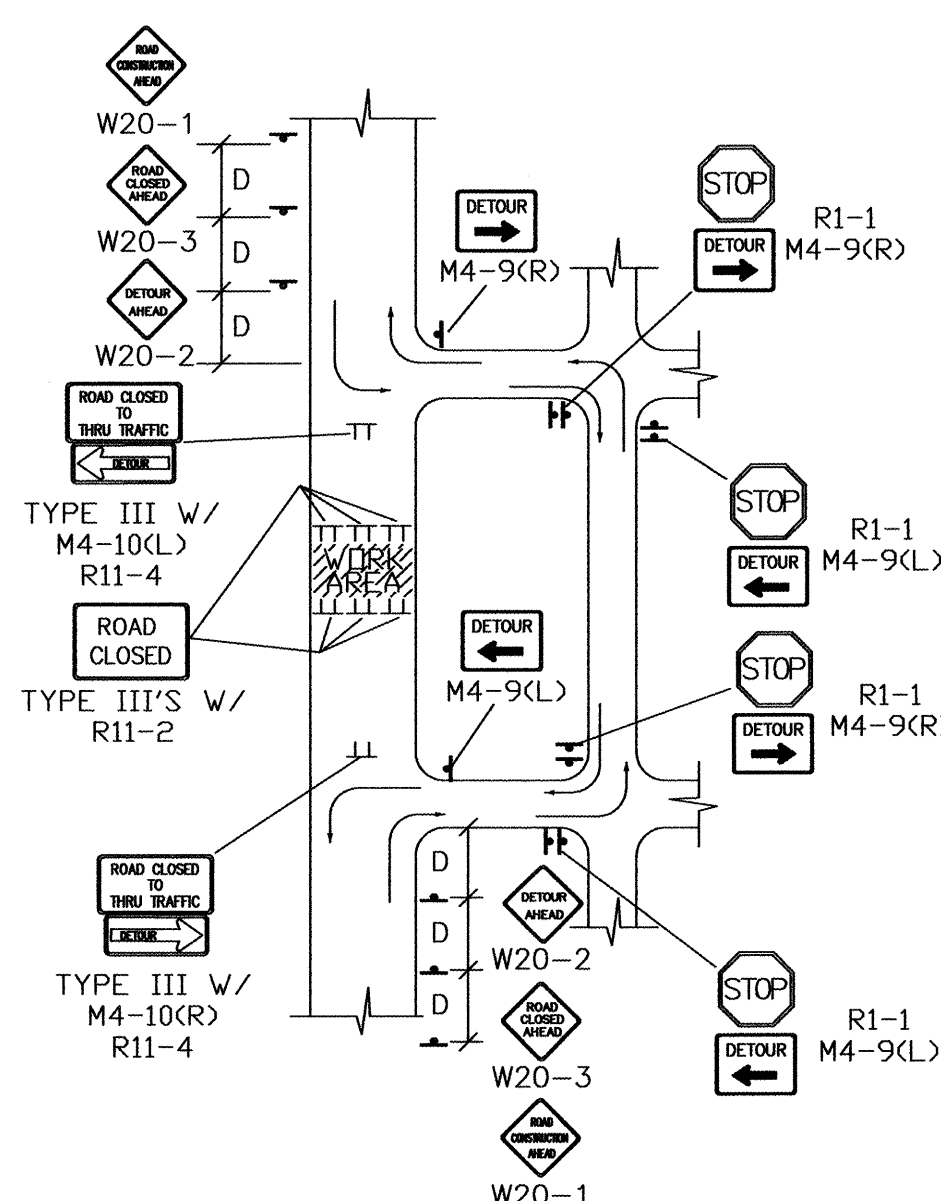
TYPICAL LANE CLOSURE AT INTERSECTION

NOTE: DEPENDING ON WORK ZONE LOCATION.



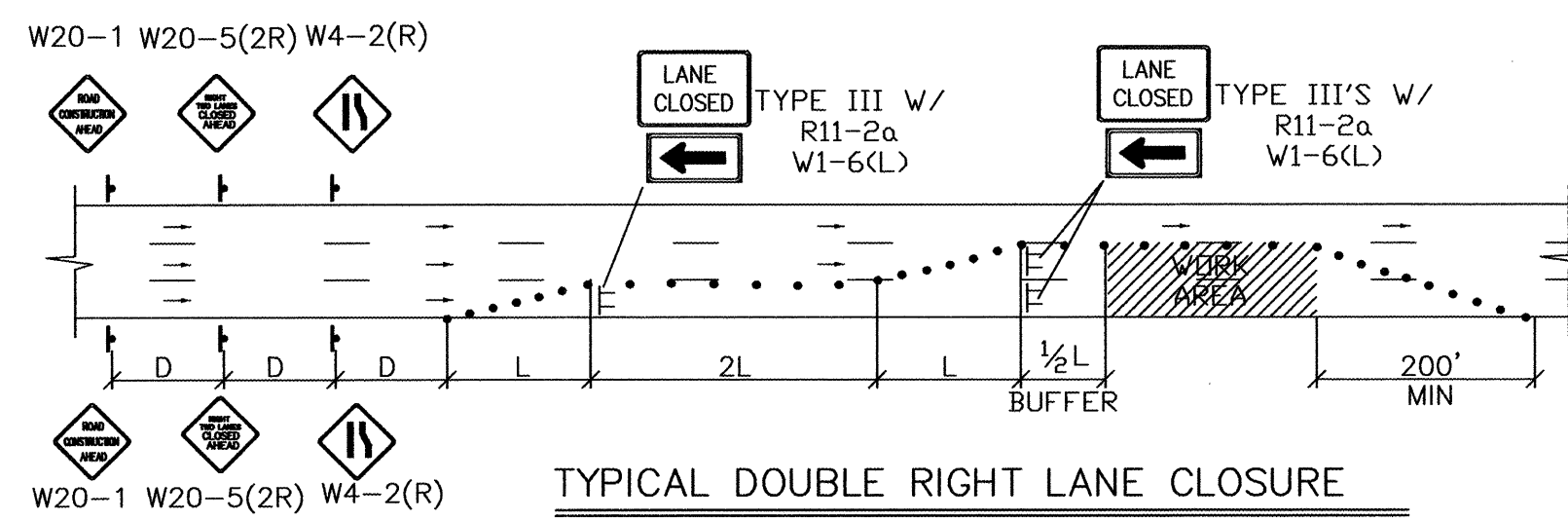
TYPICAL MID-BLOCK CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.

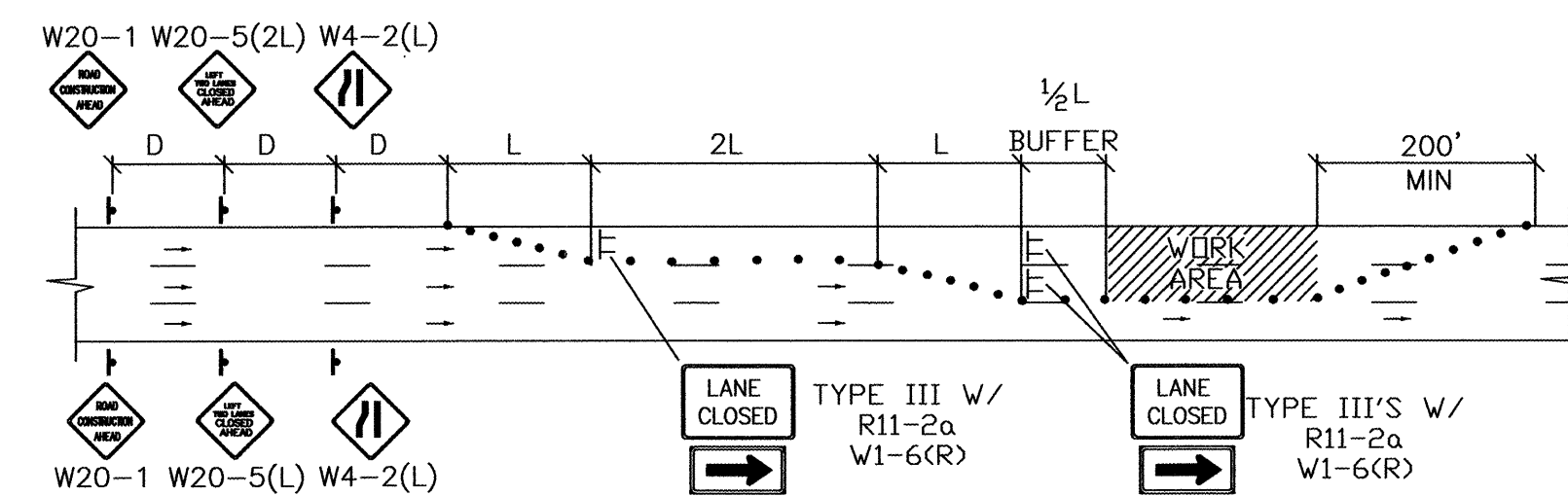


TYPICAL STREET CLOSURE

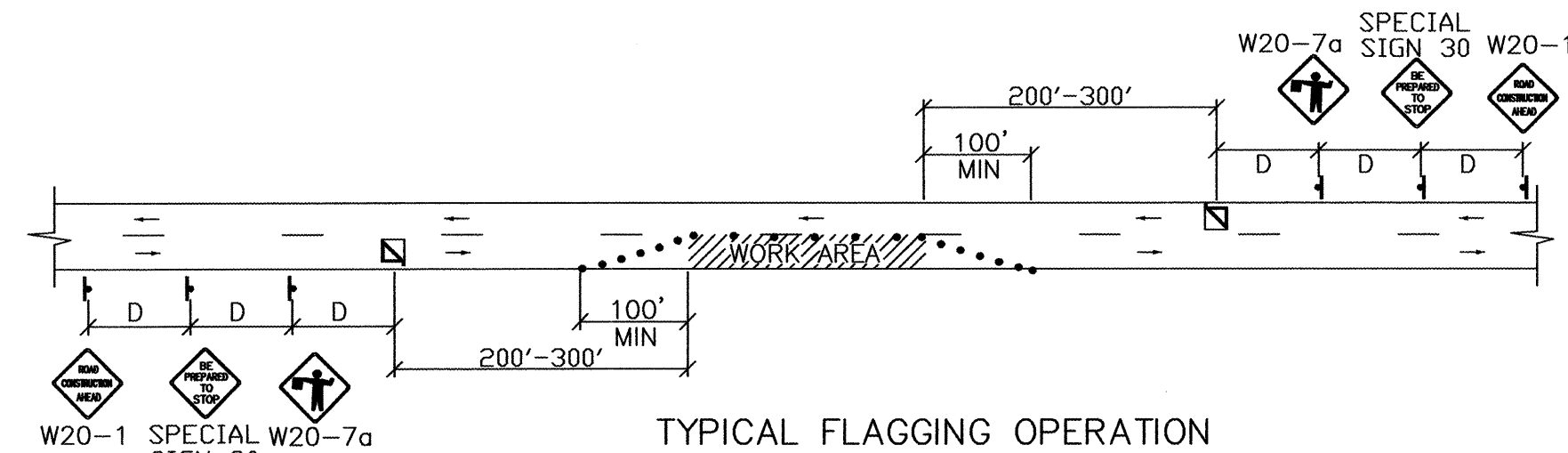
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



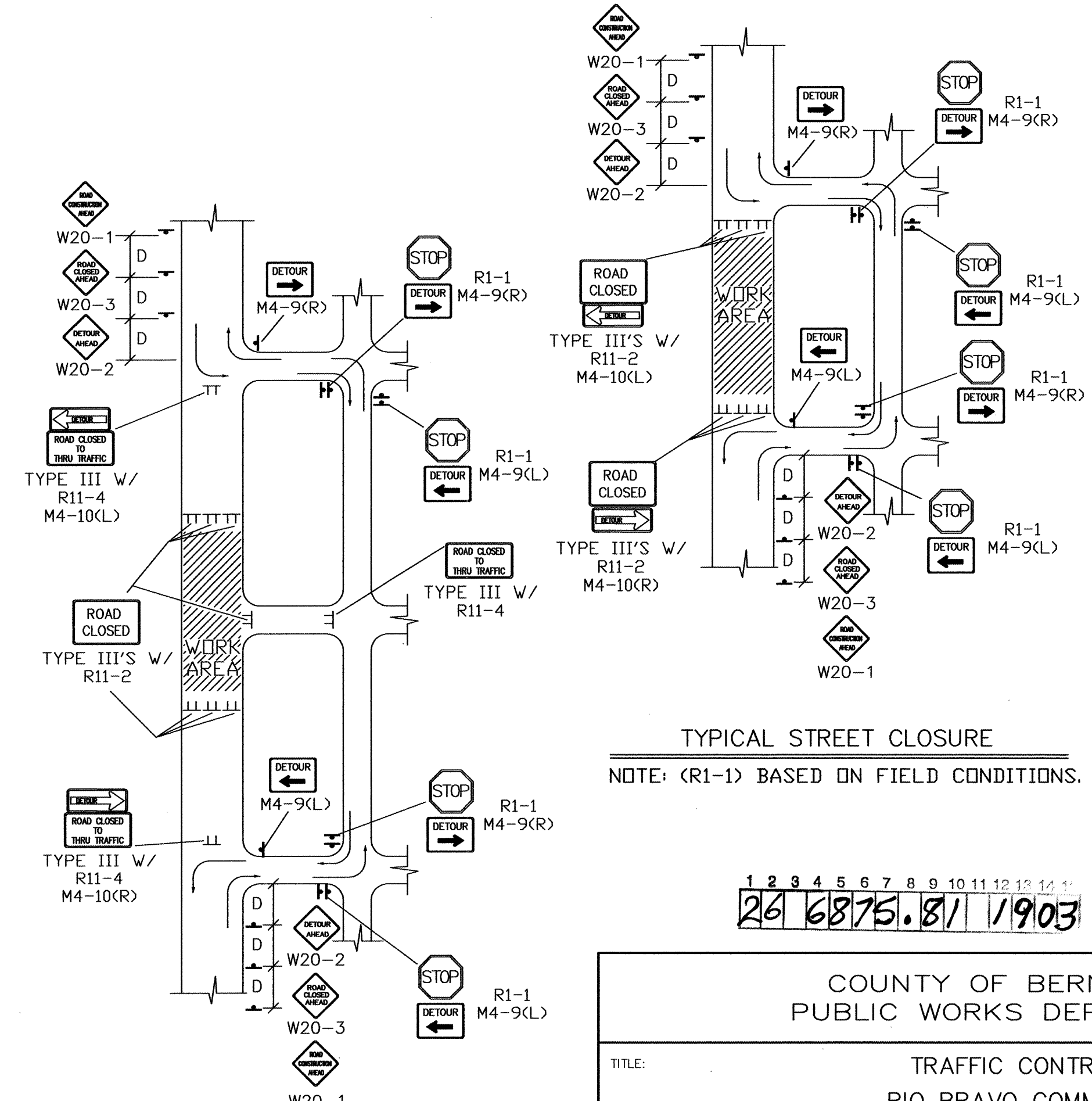
TYPICAL DOUBLE RIGHT LANE CLOSURE



TYPICAL DOUBLE LEFT LANE CLOSURE



TYPICAL FLAGGING OPERATION



TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.

26 6875.81 1903

COUNTY OF BERNALILLO
PUBLIC WORKS DEPARTMENT

TITLE: TRAFFIC CONTROL RIO BRAVO COMMONS	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
COA STANDARD	COA STANDARD
CITY PROJECT NO.	COUNTY PROJECT NO.
ZONE MAP NO.	SHEET
N-13	19 OF 20

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE
Franklin	02						
WORK	DATE						
STAKED BY	DATE						
ACCEPTANCE BY	DATE						
FIELD	DATE						
REVISIONS	DATE						
DRAWINGS	DATE						
CORRECTED BY	DATE						
MICRO-FILM	DATE						
INFORMATION	DATE						
RECORDED BY	DATE						
NO.	DATE						

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. PROJECT IS SUBJECT TO THE REQUIREMENTS OF COUNTY ORDINANCE NO. 95-12 AND COUNTY ORDINANCE NO. 96-3. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL PERMITS NECESSARY. CONTRACTOR SHALL CALL 848-1504 FOR MORE INFORMATION.
2. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE COUNTY TRAFFIC CONTROL ADMINISTRATOR AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK. TRAFFIC CONTROL PLANS SHALL BE PREPARED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION AND BY CERTIFIED PERSONNEL AND MUST BE APPROVED PRIOR TO COMMENCEMENT OF WORK ON THE PROJECT. CALL 848-1504 FOR FURTHER INFORMATION.
3. A DAILY TRAFFIC CONTROL LOG SHALL BE MAINTAINED BY THE CONTRACTOR REFLECTING THE TYPES AND LOCATIONS OF ALL TRAFFIC CONTROL DEVICES, SIGNS, BARRICADES, ETC. BEING USED ON THE PROJECT IN COMPLIANCE WITH THE APPROVED TRAFFIC CONTROL PLAN. THIS LOG SHALL BE SUBMITTED TO THE BERNALILLO COUNTY TRAFFIC CONTROL ADMINISTRATOR UPON COMPLETION OF THE PROJECT CONSTRUCTION OR WHEN SO REQUESTED BY THE PROJECT MANAGER OR THE BERNALILLO COUNTY TRAFFIC CONTROL ADMINISTRATOR.
4. CONTRACTOR SHALL PROVIDE A WEEKLY CONSTRUCTION ACTIVITY SCHEDULE TO BERNALILLO COUNTY PUBLIC WORKS DIVISION ATTN: PROJECT MANAGER
5. THE CONTRACTOR SHALL FILE A WEEKLY WRITTEN REPORT TO THE TRAFFIC CONTROL ADMINISTRATOR DESCRIBING THE TRAFFIC CONTROL PLAN THAT WILL BE IN EFFECT FOR THE FOLLOWING WEEK.
6. SUBJECT TO THE APPROVED TRAFFIC CONTROL PLAN, AT LEAST ONE LANE SHALL BE OPEN TO TRAFFIC AT ALL TIMES. CONTRACTOR SHALL PROVIDE PROPER SIGNAGE AND FLAGMAN AND SHALL MAINTAIN THE TRAFFIC LANE IN SUCH A MANNER AS TO ASSURE PROPER SAFETY TO THE TRAVELING PUBLIC AT ALL TIMES, EXCEPT WHEN GRADING, EXCAVATION AND BACKFILL OPERATIONS ARE BEING CONDUCTED IMMEDIATELY IN FRONT OF THE PROPERTY, IN WHICH CASE ACCESS WILL NOT BE DENIED FOR MORE THAN 4 HOURS WITHOUT APPROVAL BY THE COUNTY.
7. TRAFFIC LANES PROVIDED DURING CONSTRUCTION SHALL BE MAINTAINED, IN SUCH A CONDITION UNDER ALL WEATHER CONDITIONS, SO AS TO PERMIT THE REASONABLE PASSAGE OF PASSENGER VEHICLES, AND SHALL BE KEPT GRADED AND SMOOTH, AND WATERED SEVERAL TIMES DAILY TO CONTROL DUST.
8. TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.
9. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY BERNALILLO COUNTY TRAFFIC ENGINEERING.
10. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF THE COUNTY TRAFFIC CONTROL ADMINISTRATOR, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
11. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP FOR EACH PHASE SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.
12. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.
13. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.

14. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY BERNALILLO COUNTY TRAFFIC ENGINEERING PER MUTCD SECTION 6A-4.

15. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.

16. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF BERNALILLO COUNTY TRAFFIC ENGINEERING.

17. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

18. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

19. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

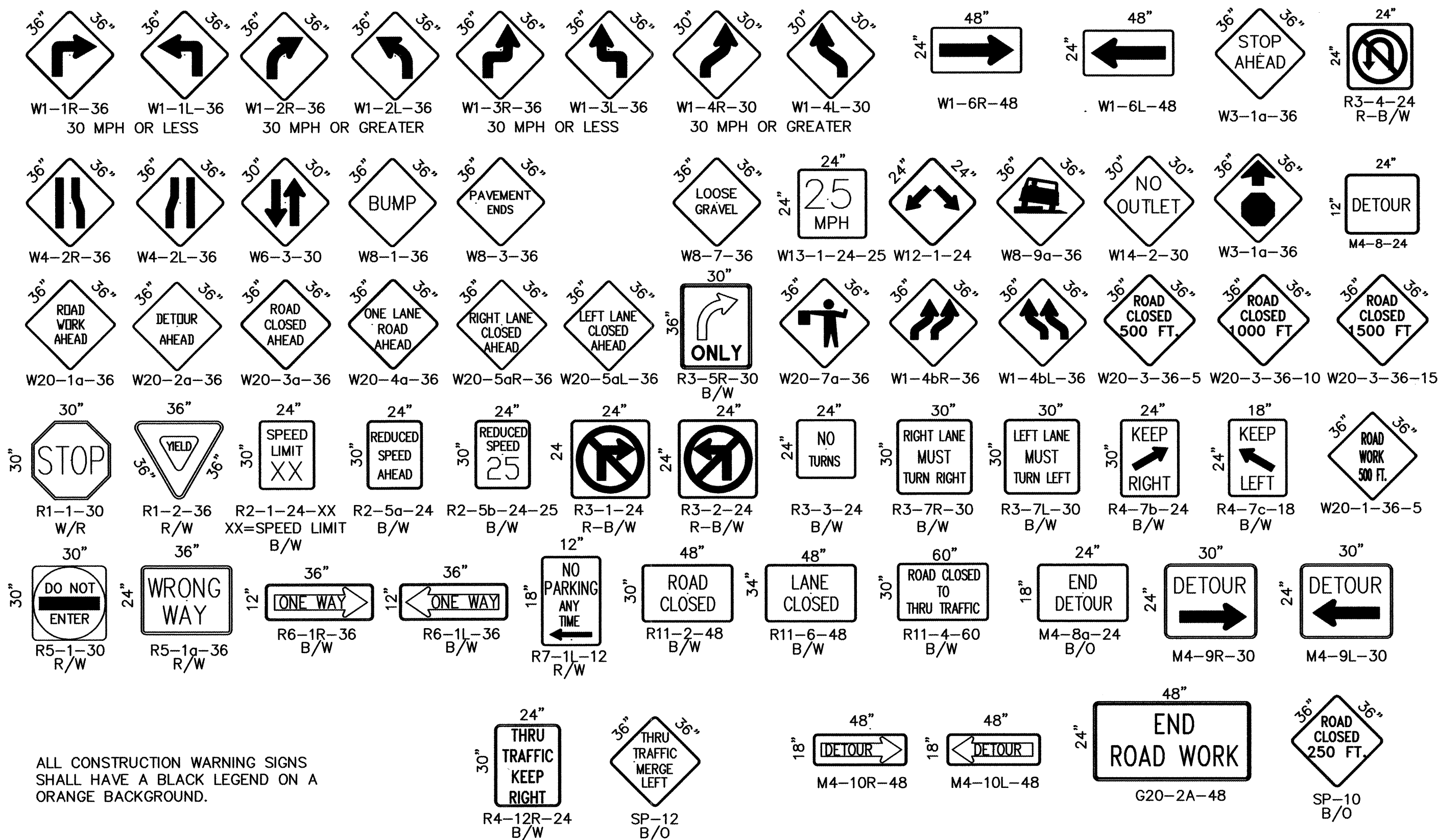
20. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF BERNALILLO COUNTY TRAFFIC ENGINEERING. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE LETTERING ON BLUE BACKGROUND. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

21. 48 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

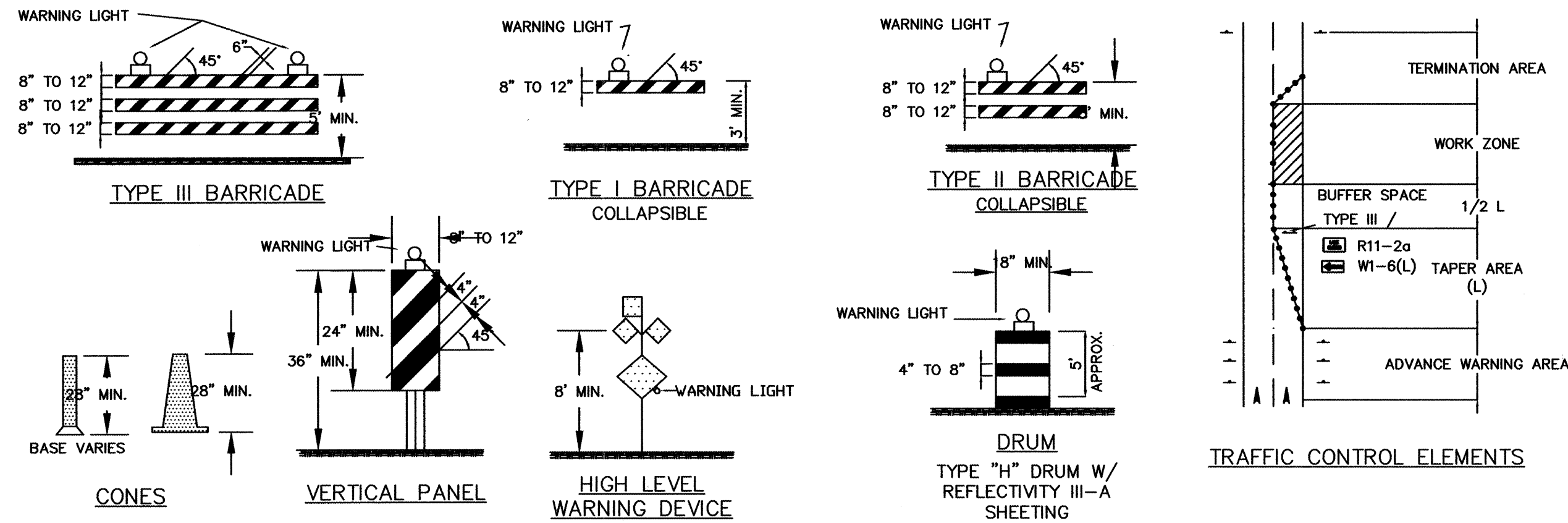
22. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY BERNALILLO COUNTY TRAFFIC ENGINEERING.

23. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET, SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

SIGN FACE DETAILS



ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.



LEGEND

- WORK AREA
- BARRICADE - TYPE I, TYPE II, OR TYPE "H" DRUM W/ REFLECTIVITY III-A SHEETING
- BARRICADE - TYPE III
- VERTICAL PANEL
- WARNING SIGN
- DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET FLAGMAN POSITION
- SPACING BETWEEN BARRICADES- A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
- L TAPER LENGTH - SEE CHART BELOW

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

NO.	DESCRIPTION	DATE	BY
REVISIONS			
COUNTY OF BERNALILLO			
RIO BRAVO COMMONS			
SIGNING & CONSTRUCTION			
TRAFFIC CONTROL STANDARDS			
26 6875.81 2003			
CITY PROJECT NO.	COUNTY PROJECT NO.	SHEET 20 OF 20	
687581	PWCO 20014		