

CONSTRUCTION PLANS FOR *INTERSECTION OF COORS BLVD. and REDLANDS, N.W.*

MEDIAN & PAVING IMPROVEMENTS

CITY OF ALBUQUERQUE
NEW MEXICO
APRIL 2003

FW

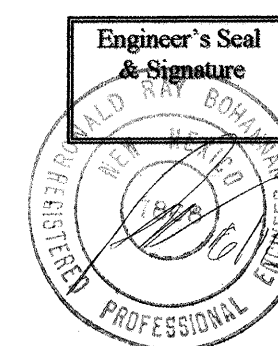
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Elevations are in NGVD 29.

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Tierra West LLC, 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 with survey information provided by Larry Medrano, of Precision Surveys, N.M.P.S. number 11993.

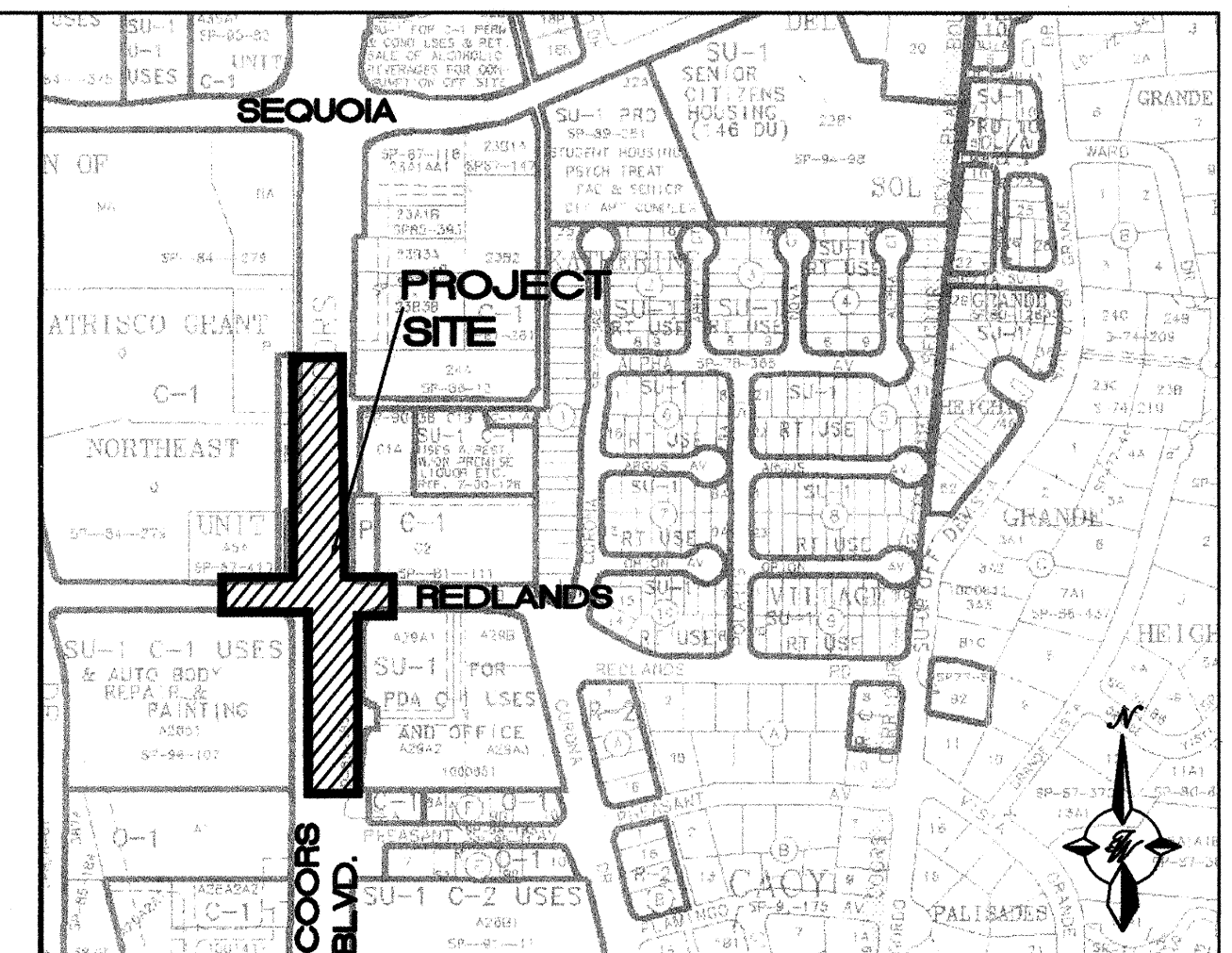


TIERRA WEST, LLC
8500 JEFFERSON NE
ALBUQUERQUE, NEW MEXICO 87113
(505)858-3100

DRB # 1000651

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY OF ALBUQUERQUE
DATE: 2/3/05

1/200036 R/200036TITLE.DWG/MF/04-08-2003



VICINITY MAP ZONE ATLAS: G-11-Z

NOTICE TO CONTRACTORS

SCALE NONE

1. 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 (UPDATE #6).
2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
3. ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES 24-HOUR CONSTRUCTION.
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 OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. SEVEN (7) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATIONS DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO(2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO STANDARD SPECIFICATIONS.
6. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY THE CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
7. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER 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 COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS. ANY PERMANENT SURVEY MONUMENT LOCATED WITHIN 50' OF THIS PROJECT THAT IS NOT SHOWN ON THE PLAN AND IS DESTROYED DURING CONSTRUCTION WILL BE REPLACED AT THE DESIGNERS EXPENSE.
8. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
9. FOR STORM DRAIN CONSTRUCTION, RCP PIPE JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

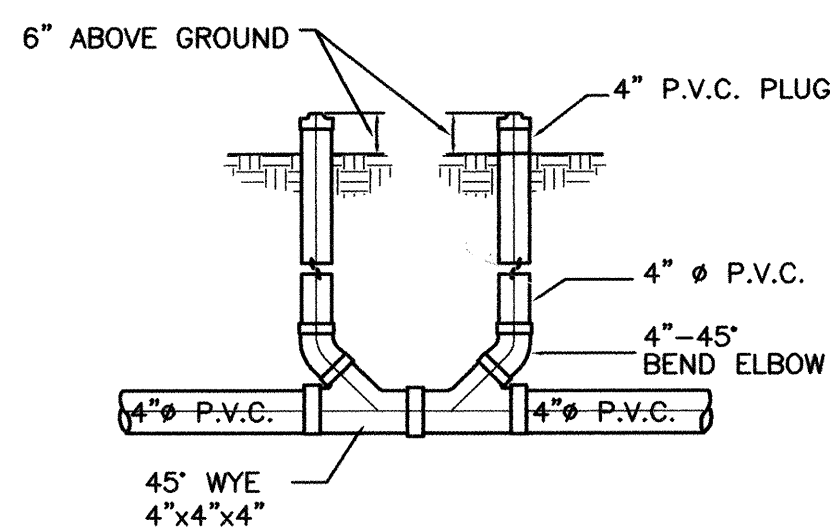
- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☒ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☒ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE PROJECT ENGINEER.
- ☒ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER 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.

TIERRA WEST, LLC
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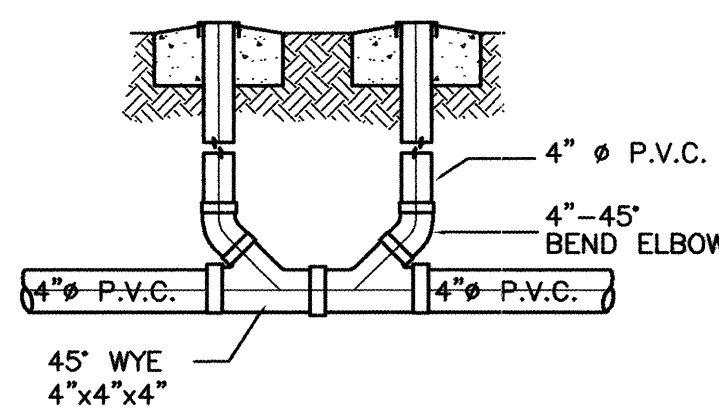
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ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE		*****	
		DRC Chairman		12-30-03		APPROVED FOR CONSTRUCTION			
		Transportation		10/20/03					
		Water/Wastewater		10/20/03					
		Hydrology		10-20-03					
C.I.P.									
Constr. Coord.		10-23-03							
-									
CITY PROJECT NO.						SHEET			
703381						1 of 8			

SCANNED BY
MESA REPRO

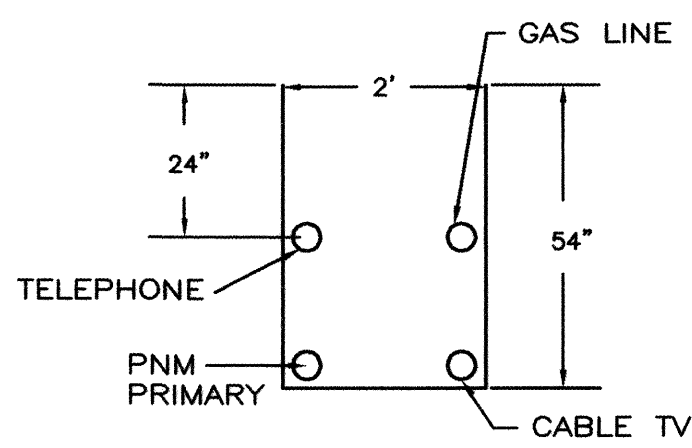
Engineer's Seal & Signature



TYPICAL CLEANOUT AND SERVICE CONNECTION



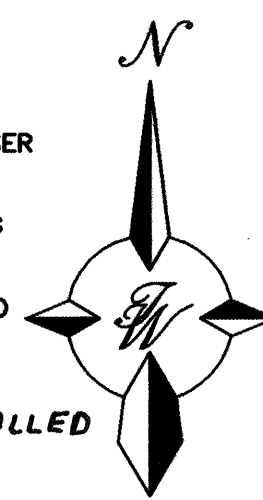
TYPICAL CLEANOUT AND SERVICE CONNECTION



UTILITY TRENCH DETAIL

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO RESIDENTIAL STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.
8. CONTRACTOR IS RESPONSIBLE TO PROVIDE UTILITY STUBS 5' FROM BUILDING

1. 4' MINIMUM BURY REQUIRED FOR ALL UTILITIES UNLESS OTHERWISE NOTED.
2. REFERENCE ARCHITECTURAL PLANS FOR WATER LINE RISER LOCATIONS.
3. CLEAN OUTS ARE TO BE BUILT PER UNIFORM PLUMBING CODE STANDARDS.
4. ALL BLOCKING IS PER CITY OF ALBUQUERQUE STANDARD, DWG. 2320.
5. ALL PIPE MATERIAL TO BE USED PER UPC.
6. METERED SERVICES SHALL BE INSTALLED PER COA STD DWG 2363
7. GATE VALVES AND BOXES SHALL BE INSTALLED PER COA STD 2326 AND 2328



SCALE: 1"=30'



NOTES:

1. ONLY WATER SYSTEMS PERSONNEL ARE AUTHORIZED TO OPERATE VALVES.
2. NOTIFY CITY OF ALBUQUERQUE, WATER SYSTEMS DIVISION (PHONE 857-8200) FIVE (5) WORKING DAYS IN ADVANCE OF NEEDING EXECUTION OF THE WATER SHUT OFF PLAN
3. APPROXIMATE SHUT OFF TIME WILL BE 24 HOURS.
4. SHUTOFF THE VALVES INDICATED IN THE ABOVE PLAN
5. AT COORS BLVD., MAKE PRESSURIZED TAPS; SHUT OFF VALVES PER ABOVE PLAN IN CASE OF EMERGENCY.

[illegible]

EXISTING UTILITIES ARE NOT SHOWN.
IT SHALL BE THE SOLE RESPONSIBILITY
OF THE CONTRACTOR TO CONDUCT ALL
NECESSARY FIELD INVESTIGATIONS PRIOR
TO ANY EXCAVATION TO DETERMINE THE
ACTUAL LOCATION OF UTILITIES & OTHER
IMPROVEMENTS.

8509 JEFFERSON NE
ALBUQUERQUE, NEW MEXICO 87113
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

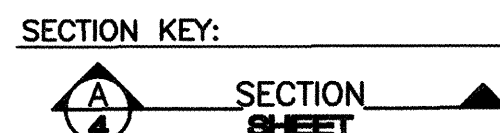
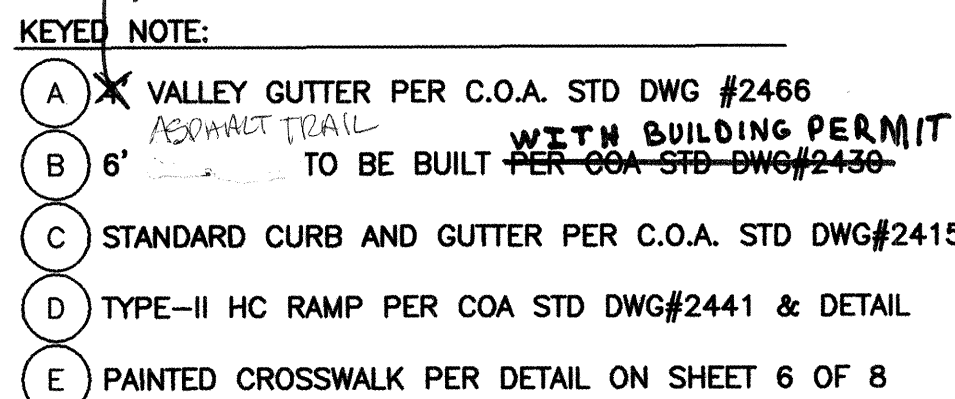
COORS AND REDLANDS
UTILITY IMPROVEMENTS
BLVD., REDLANDS RD., CORO

DESIGN REVIEW COMMITTEE 		CITY ENGINEER, APPROVAL 		LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
CITY PROJECT NO.		ZONE MAP NO.		SHEET		OF
203381		6-11-Z		3A		-8

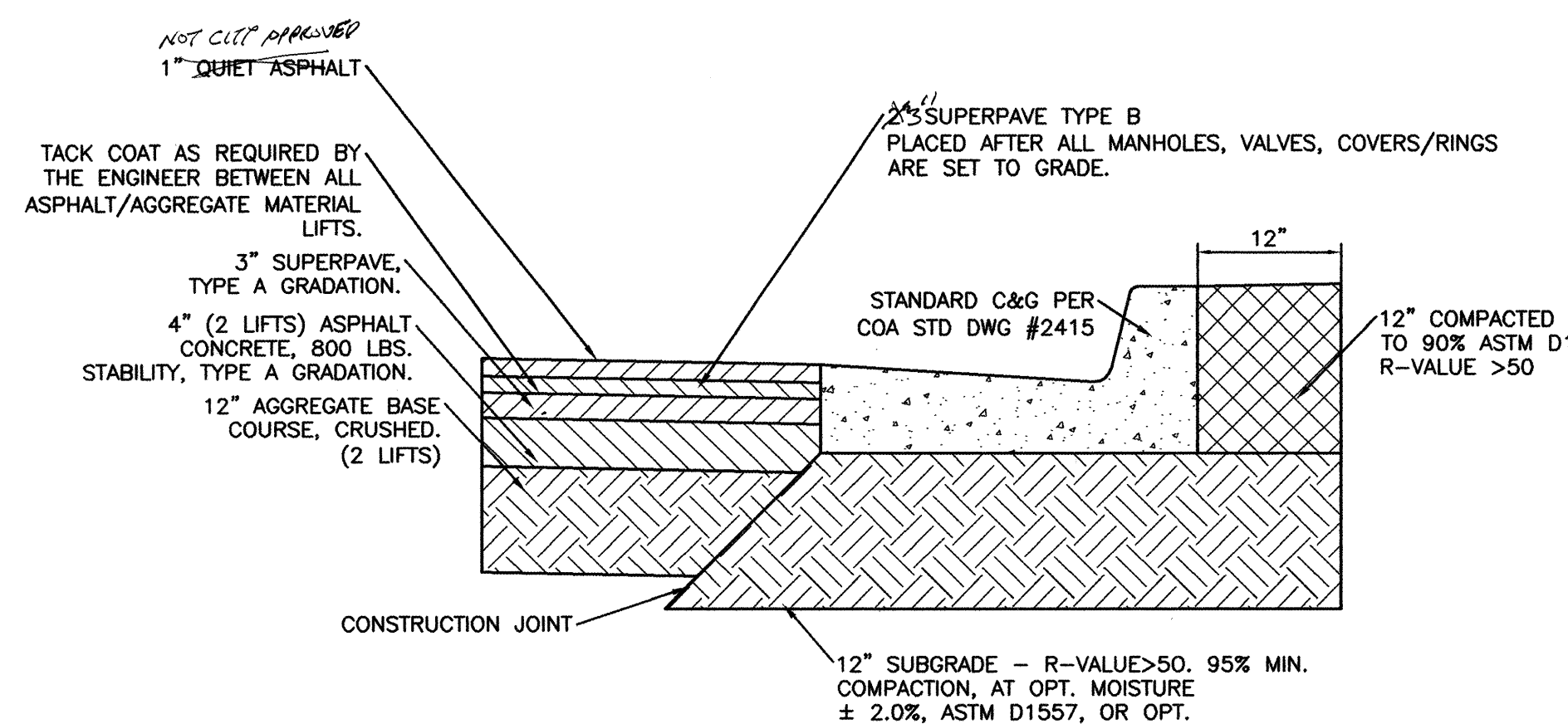
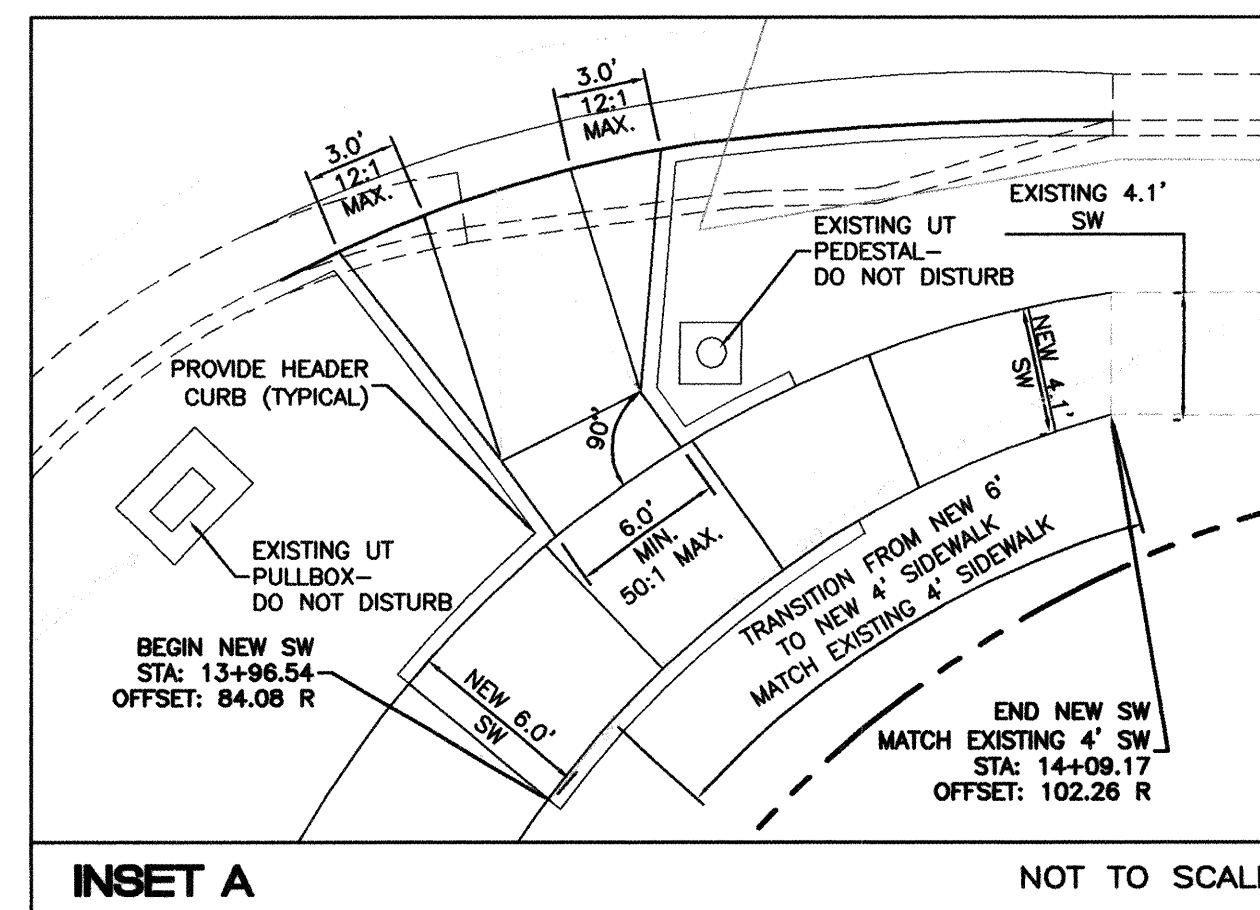
ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES		ACS "ACS, NM 448-N4A, 1984" CENTRAL STATION DATA NM STATE PLANE COORDINATES Central Zone (NAD 1927) X=365,125.21 Y=1,499,735.31 G-G=0.9986767 Da=-001°5'34" ELEV=5104.408 (NGVD 29)		CONTRACTOR: GERALD MARTIN LTD. 2004 WORK STATED BY: PRECISION SURVEYS DATE 2004 FIELD NOTES BY: ACCEPTANCE BY: CONTERRA WEST DATE 2004 DRAWINGS BY: CONTERRA WEST DATE 2004 CORRECTED BY: TERRA WEST DATE 2004 MICRO-FILM INFORMATION RECORDED BY: DATE:	
		NO.	BY				
DESIGNED BY: RW		DATE: 12-02-2003					
DRAWN BY: MP		DATE: 12-02-2003					
DRAWN NAME: CO1_200038MUD.DWG		JOB NO: 200038R					
CHECKED BY: RW/TA/MP		DATE: 12-20-2003					

QUARTER POINTS					
C1	FL	ELEV.	C2	FL	ELEV.
	1	5100.63		1	5100.81
	2	5100.80		2	5100.60
	3	5100.97		3	5100.40

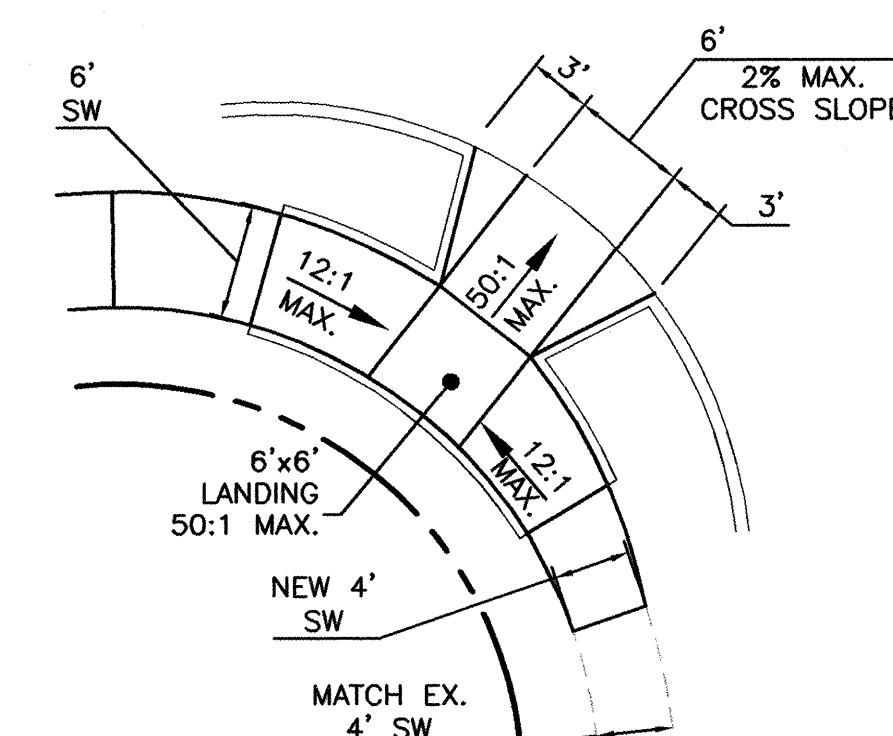
CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	TANGENT	CHORD
C1	36.74	25.00	84°12'23"	22.59	S47°53'49"W 33.52
C2	78.50	50.00	89°57'28"	49.96	S45°01'16"E 70.68
C3	14.27	44.02	18°34'35"	7.20	S71°53'19"W 14.21
C4	13.53	104.50	7°25'05"	6.77	S86°48'26"W 13.52



- NOTE:**
1. ALL NEW CURB AND GUTTER TO MATCH EXISTING IN GRADE AND ALIGNMENT
 2. ALL ELEVATIONS SHOWN ARE FLOWLINE, UNLESS OTHERWISE NOTED.
 3. SEE SHEET 4 FOR SIGNAGE INSTALLATION AND LOCATIONS
 4. ADJUST EXISTING MANHOLES, VALVE CANS TO FINISHED GRADE.

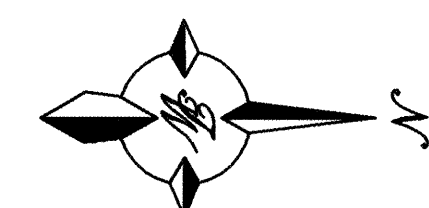


COORS PAVING
NTS PER AS-BUILT PROJECT #5885.90



HC RAMP DETAIL - TYPICAL

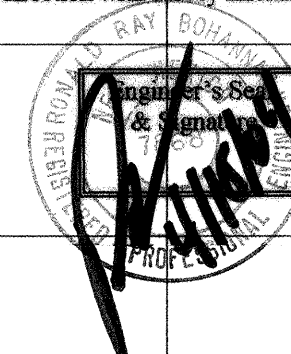
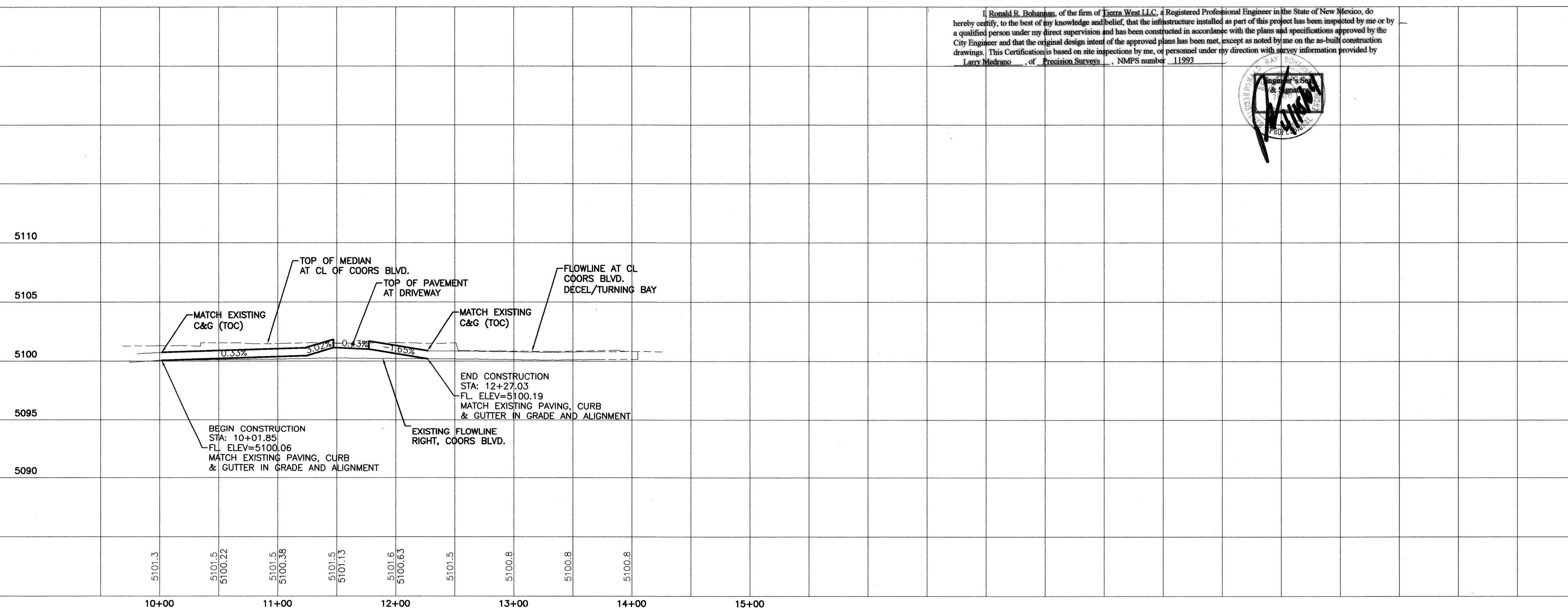
NOT TO SCALE

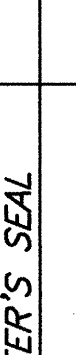


SCALE: HORIZ. 1"=50
VERT. 1"= 5

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Behnam, of the firm of Tandberg West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the satisfaction of my licensee and the public, 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 with survey information provided by Larry Medrano, of Precision Surveys, NMPMS number 11993.



ENGINEER'S SEAL	SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
					CONTRACTOR	GERALD MARTIN LTD 2004
	NO.	BY	DATE	ACS "ACS, NM 44B-14A, 1984"	STATIONED BY PRECISION SURVEY'S DATE 2004	
				NW CENTRAL STATION DATA	INSPECTOR'S DATE 2004	
					NM STATE PLANE COORDINATES	FIELD BY COA/TERRA WEST DATE 2004
					Central Zone (NAD 1927)	FIELD BY COA/TERRA WEST DATE 2004
					X=365,125.21	VERIFICATION BY DATE 2004
					Y=1,499,735.31	CORRECTED BY TERRA WEST DATE 2004
					G-G=0.9996767	MICRO-FILM INFORMATION
					Da = -00°15'34"	RECORDED BY DATE
					ELEV=5104.408 (NGVD 29)	NO.

REMARKS		BY
<i>REVIEWS</i>		
DESIGN		
DESIGNED BY:	MP	DATE: 04-2003
DRAWN BY:	MP	DATE: 10-07-2003
DRAWN NAME: 2000336-COORSPP.DWG		
CHECKED BY:	RRB/TA	DATE: 10-2003

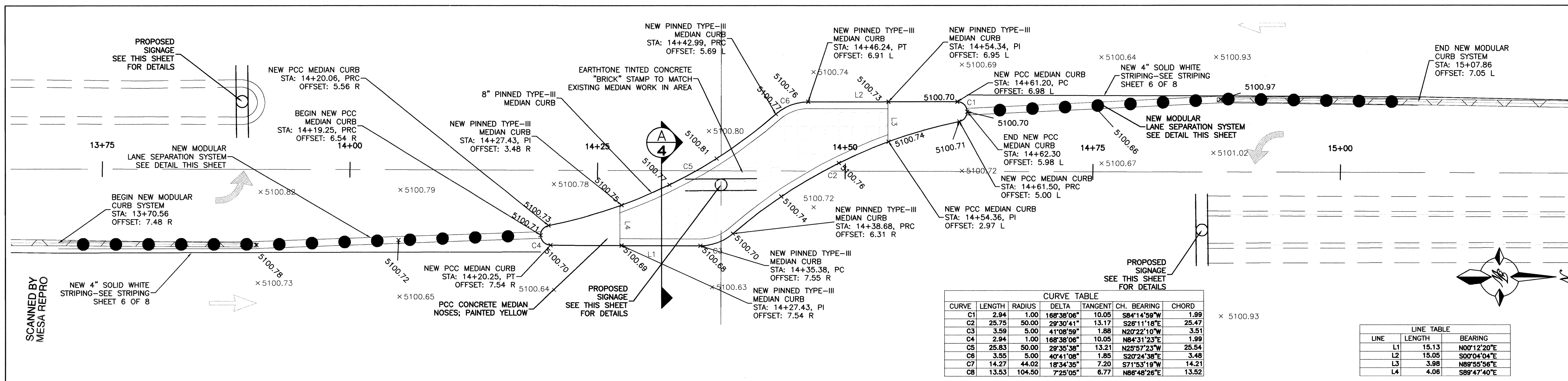
TIERRA WEST, LLC
8509 JEFFERSON NE
ALBUQUERQUE, NEW MEXICO 87113
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **COORS BLVD. NW**
DECEL LANE IMPROVEMENTS
COORS BLVD. STA: 10+01.85 TO STA: 14+18.74

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
A OCT 2 3	A NOV 2 0 2003			

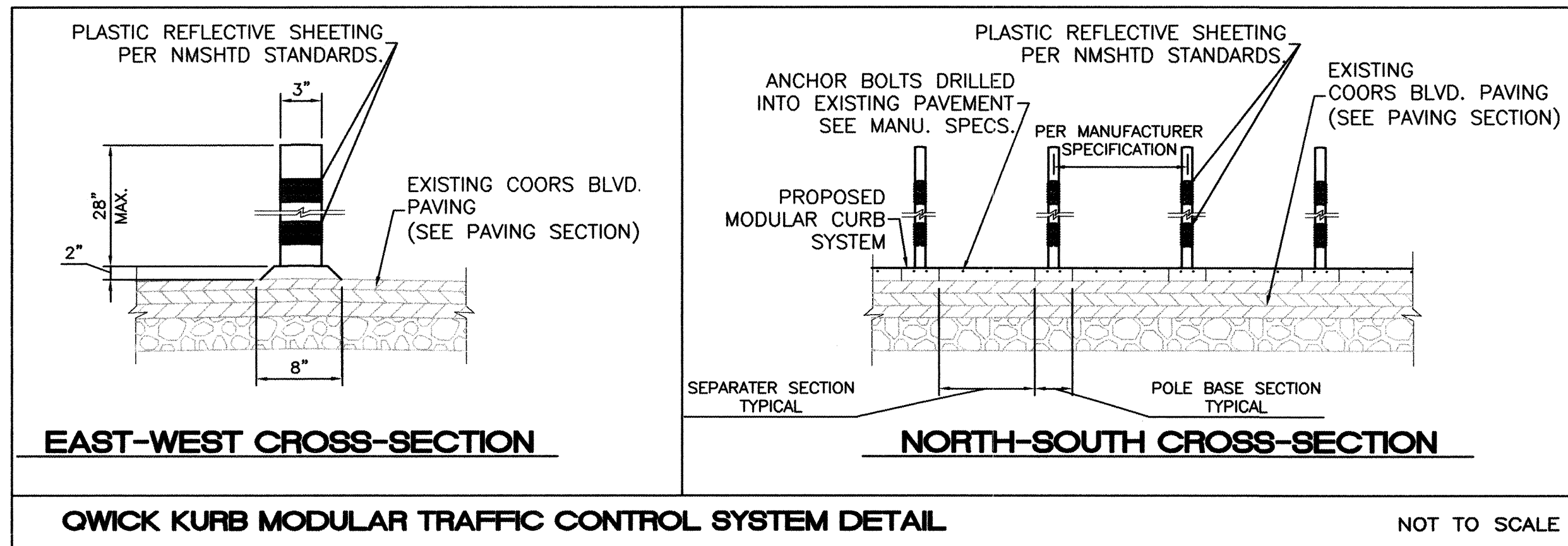
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
703381	G-11-7	3	8



CURVE TABLE							
CURVE	LENGTH	RADIUS	DELTA	TANGENT	CH. BEARING	CHORD	
C1	2.94	1.00	168°38'06"	10.05	S84°14'59"W	1.99	
C2	25.75	50.00	29°30'41"	13.17	S26°11'18"E	25.47	
C3	3.58	5.00	41°08'59"	1.88	N20°22'10"W	3.51	
C4	2.94	1.00	168°38'06"	10.05	N84°31'23"E	1.99	
C5	25.83	50.00	29°36'38"	13.21	N25°57'23"W	25.54	
C6	3.55	5.00	40°41'08"	1.85	S20°24'38"E	3.48	
C7	14.27	44.02	18°34'35"	7.20	S71°53'19"W	14.21	
C8	13.53	104.50	7°25'05"	6.77	N86°48'26"E	13.52	

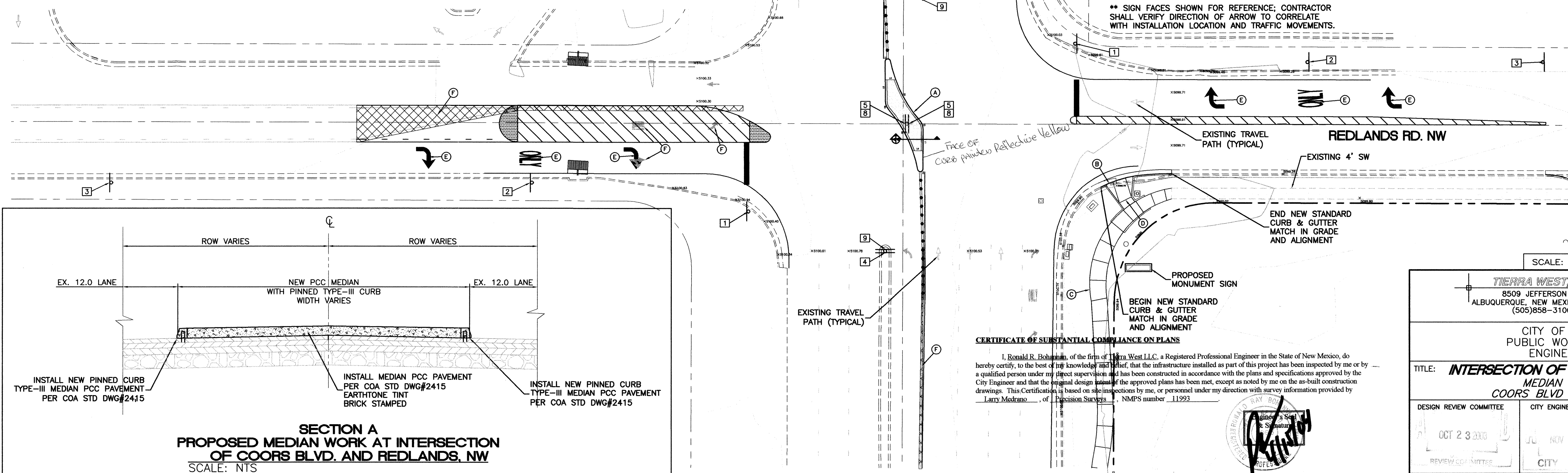
LINE TABLE		
LINE	LENGTH	BEARING
L1	15.13	N00°12'20"E
L2	15.05	S00°04'04"E
L3	3.98	N89°55'56"E
L4	4.06	S89°47'40"E

MEDIAN DETAIL SCALE: 1"=5'



- SIGN KEY:**
- 1 STOP SIGN R1-1, "STOP"
 - 2 SIGN R3-7(R), "RIGHT LANE MUST TURN RIGHT"
 - 3 SIGN W3-1, "STOP AHEAD"
 - 4 SIGN R3-4, NO U-TURN SYMBOL SIGN
 - 5 SIGN R3-1, NO LEFT-TURN SYMBOL SIGN
 - 8 SIGN R6-1, "ONE WAY"
 - 9 SIGN R5-1, "DO NOT ENTER"
 - 5/8 STACKED SIGN ASSEMBLY SIGN R3-1, NO LEFT-TURN SYMBOL SIGN, SIGN R6-1, "ONE WAY"
- KEYED NOTE:**
- A PINNED TYPE-III MEDIAN CURB PER C.O.A. STD DWG#2415
 - B STANDARD CURB AND GUTTER PER C.O.A. STD DWG#2415
 - C 6' SIDEWALK PER C.O.A. STD DWG#2430
 - D HC RAMP PER DETAIL ON SHEET 3 OF 8
 - E INSTALL TURN ONLY ARROWS AND "ONLY" PER DETAIL ON SHEET 6 OF 8
 - F EXISTING TRAFFIC MARKING TO BE REMOVED/OBLITERATED

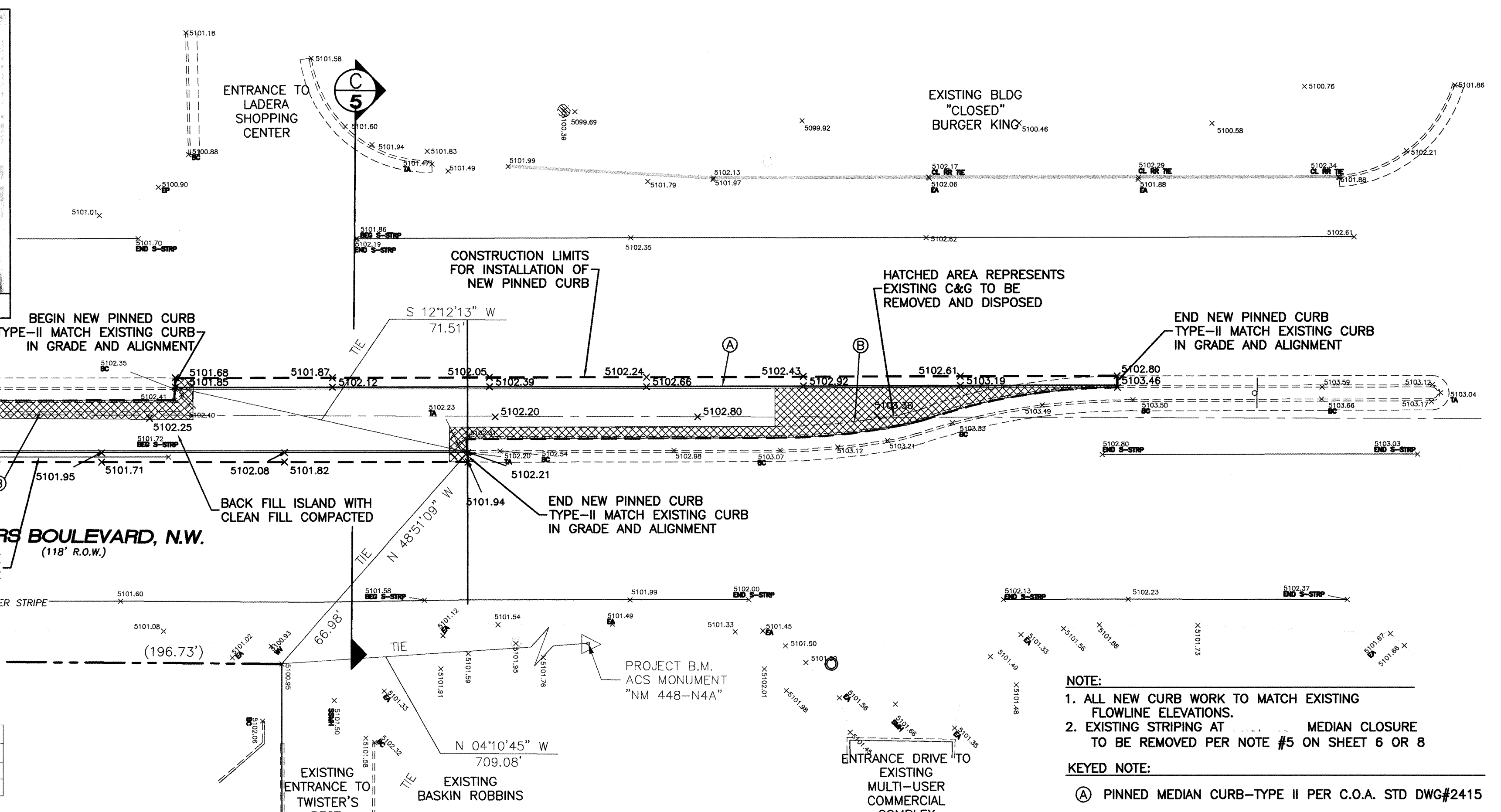
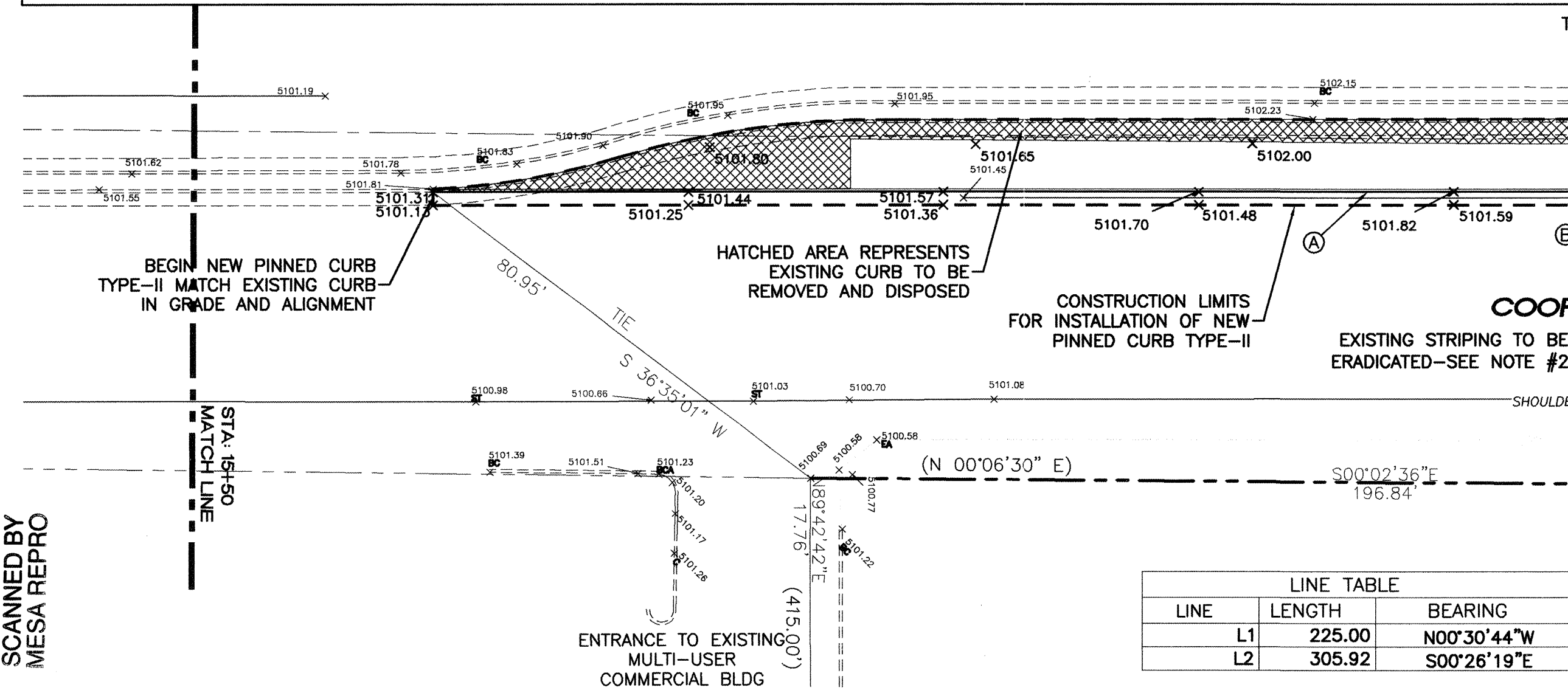
- NOTE:**
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 - ALL ELEVATIONS SHOWN ARE FLOWLINE, UNLESS OTHERWISE NOTED.
 - SEE THIS SHEET FOR SIGNAGE INSTALLATION AND LOCATIONS
 - ADJUST EXISTING MANHOLES, VALVE CANS TO FINISHED GRADE.



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Tierra West LLC, 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 with survey information provided by Larry Medrano, of Precision Surveys, Inc., NMPS number 11993.

DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL		MO./DAY/YR.	
OCT 23 2003		NOV 20 2003			
REVIEW COMMITTEE		CITY			
CITY PROJECT NO. 703381		ZONE MAP NO. G-11-Z		SHEET 4 OF 8	



SECTION A
EXISTING COORS BLVD. STA: 10+01.85
SCALE: NTS

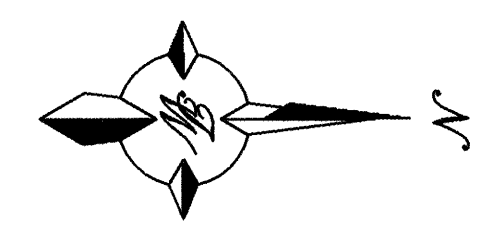
SECTION B
COORS BLVD. STA: 11+24.63
SCALE: NTS

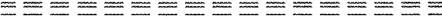
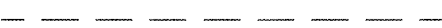
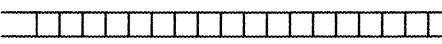
SECTION C
MEDIAN WORK AT COORS BLVD.
SCALE: NTS

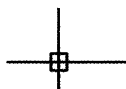
CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

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I, Ronald R. Bohman, of the firm The West LLC, 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 with survey information provided by Larry Medrano of Precision Surveys, NMP# number 11993.



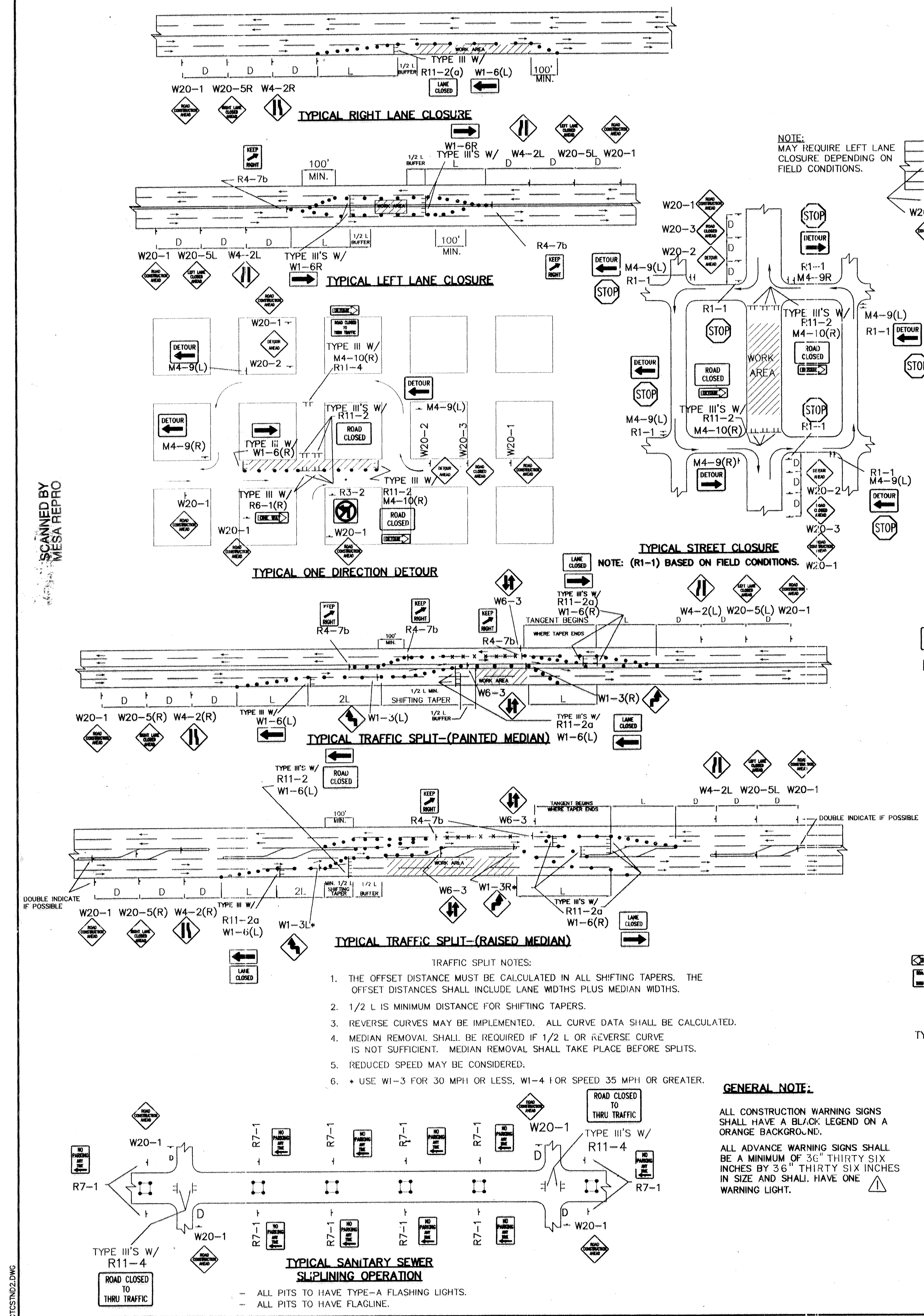
	EXISTING STORM SEWER MANHOLE
	EXISTING STORM SEWER INLET
--- EX. 24" RCP ---	EXISTING STORM SEWER LINE
	EXISTING CURB & GUTTER
	PROPOSED CURB & GUTTER
	BOUNDARY LINE
	EXISTING BOUNDARY LINE
	EASEMENT
	PROPOSED SIDEWALK
	EXISTING SIDEWALK
	EXISTING CONTOUR
---5010---	EXISTING INDEX CONTOUR
× 5048.25	EXISTING SPOT ELEVATION
× 5048.25	PROPOSED SPOT ELEVATION
	CENTERLINE
	RIGHT-OF-WAY
	LANE
	STRIPING
	BENCH MARK
	EXISTING STREET LIGHTS
	CONSTRUCTION LIMITS
	EXTENT OF SAWCUT/LIMITS OF EX. C&G REMOVAL AND DISPOSAL

		TIERRA WEST, LLC 8509 JEFFERSON NE ALBUQUERQUE, NEW MEXICO 87113 (505)858-3100		NO.	DATE	DESIGNED B	DRAWN BY:	DRAWN NAME	CHECKED BY
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP									
TITLE:		<i>COORS BOULEVARD NW</i> <i>MEDIAN IMPROVEMENTS</i> <i>COORS BOULEVARD, N.W.</i>							
DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL		LAST DESIGN UPDATE	MO./DAY/YR.		MO./DAY/YR.		
CITY PROJECT NO.		ZONE MAP NO.		SHEET		OF			
703381		G-11-Z				5 OF 8			

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	FIELD NOTES	BY	DATE	CONTRACTOR	GERALD MARTIN LTD 2004
	ACS "ACS, NM 443-N44, 1984"			INSPECTOR'S STAMPED BY	PRECISION SURVEYS DATE 2004
	CENTRAL STATION DATA			FIELD VERIFICATION BY	COATERRA WEST DATE 2004
	NM STATE PLANE COORDINATES			FIELD VERIFICATION BY	COATERRA WEST DATE 2004
	Central Zone (NAD 1927)			INSPECTOR'S CORRECTED BY	DATE 2004
	X=385,168.46			MICRO-FILM INFORMATION	
	Y=1,497,455.42			RECORDED BY	DATE
	G-G=0.99967688				
	Do = -00°15'34"				
	ELEV=5102.169 (NGVD 29)			<i>Mr. Bob Tappan: Mike Strickland</i>	

[illegible]

SCANNED BY
MESA REPRO

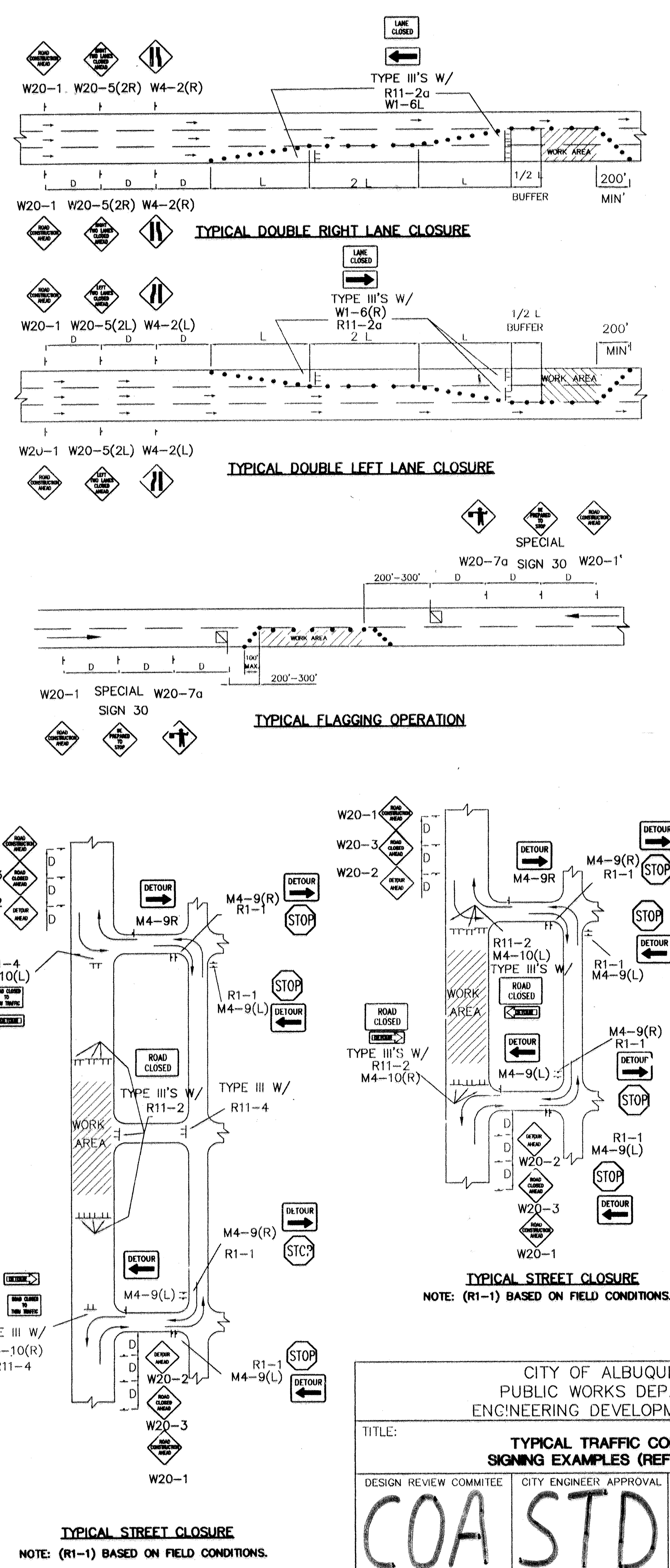
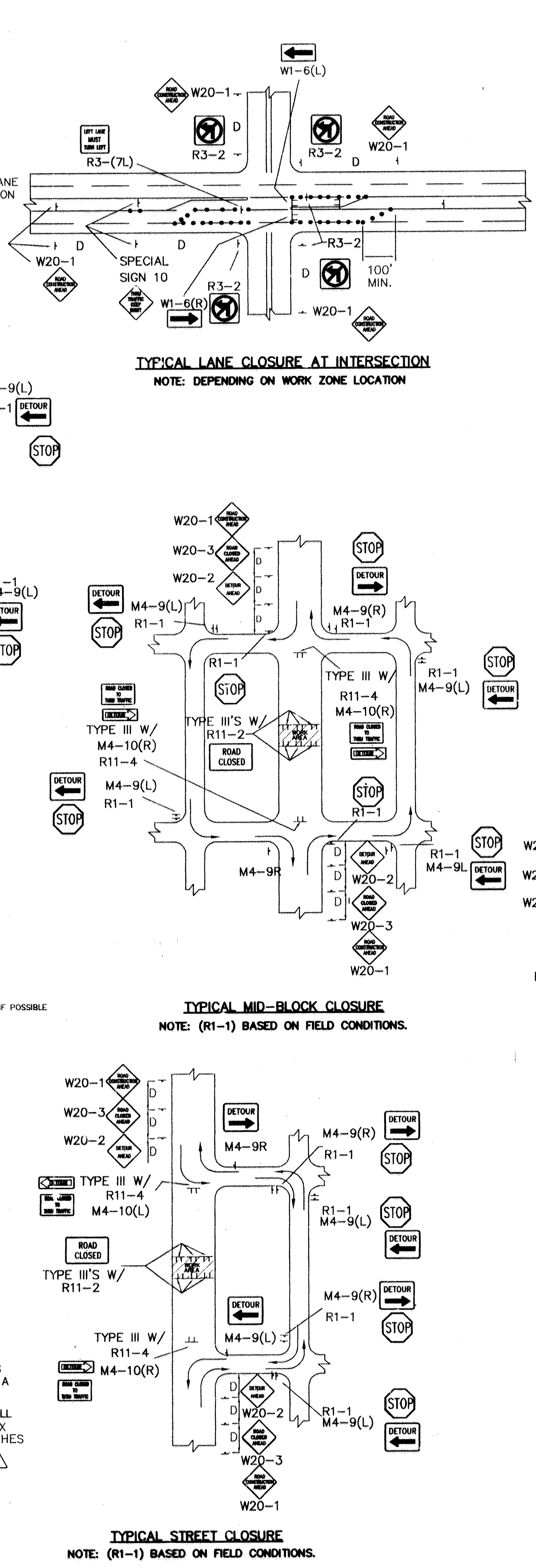


- TRAFFIC SPLIT NOTES:
1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
 2. 1/2 L IS MINIMUM DISTANCE FOR SHIFTING TAPERS.
 3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
 4. MEDIAN REMOVAL 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.

GENERAL NOTE:

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

ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF 36" THIRTY SIX INCHES BY 36" THIRTY SIX INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.)**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
COA	STD	LAST UPDATE	
PROJECT NO.	MAP NO.	SHEET 7 OF 8	

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	WORKS BY	DATE	FIELD NOTES	DATE	NO.	BY
INSPECTOR'S	DATE	ACCEPTANCE BY	DATE				
VERIFICATION BY	DATE	DRAWINGS	DATE				
RECORDED BY	DATE						
MICRO-FILM INFORMATION							

RECEIVED
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

DESIGNED BY: C.O.A. STANDARDS
DRAWN BY: DATE
CHECKED BY: DATE

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.

2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.

3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.

4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.

5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.

6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO 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 CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP 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.

8. 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.

9. 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.

10. 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 CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.

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

12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELLED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

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

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

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

17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

19. 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.

20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

21. 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.

22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.

25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

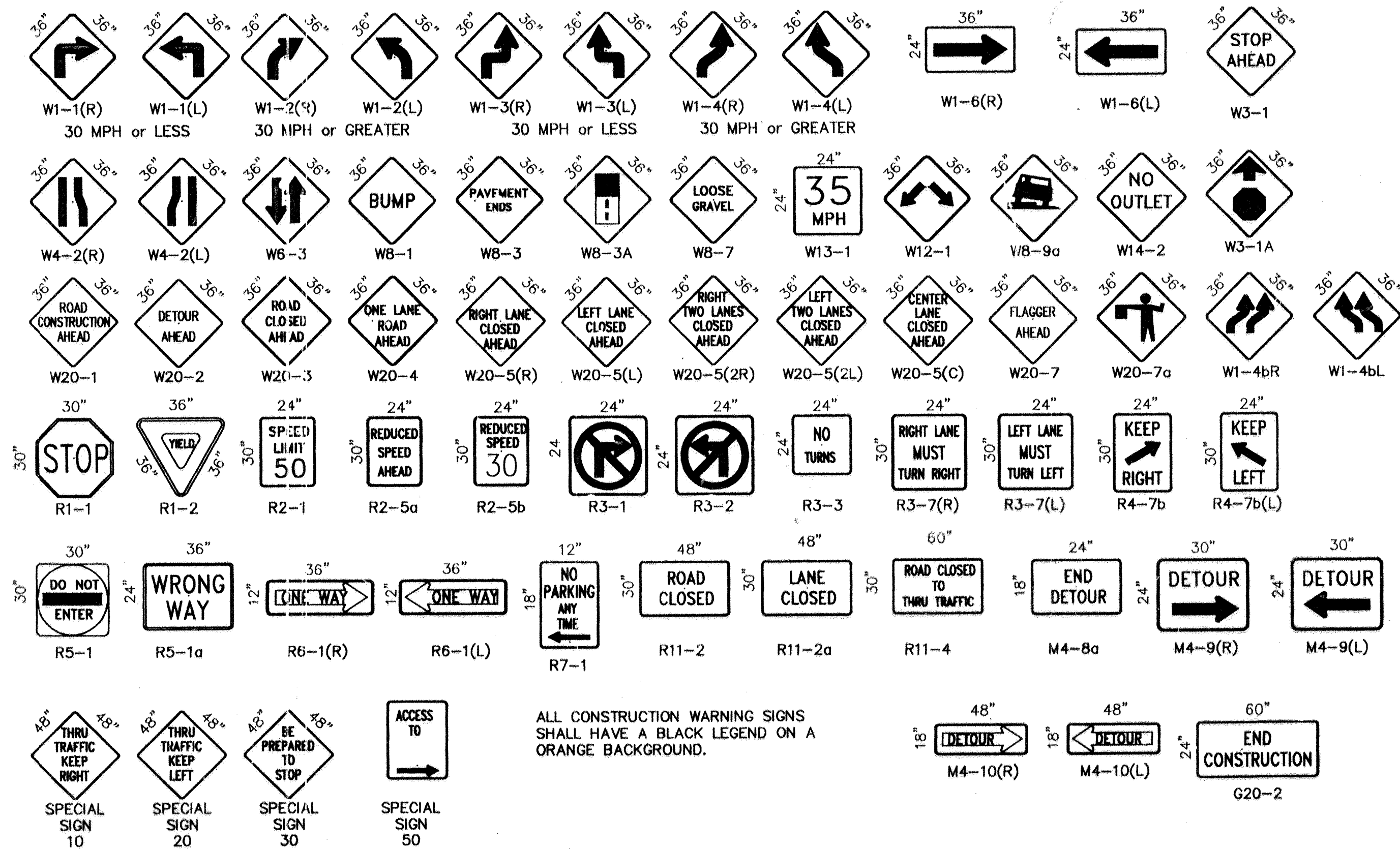
26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.

27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.

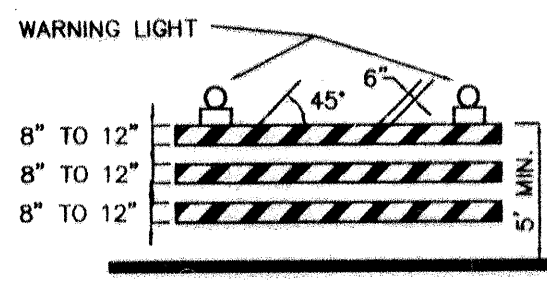
SPECIAL PROJECT TRAFFIC CONTROL NOTES

- ONLY SINGLE LANE CLOSURES IN EACH DIRECTION ARE ALLOWED ON COORS BLVD. DOUBLE LANE CLOSURES OR TRAFFIC SPLITS ARE NOT ALLOWED.
- NO LANE CLOSURES ARE ALLOWED ON SOUTHBOUND COORS BLVD. FROM 6:00 a.m. TO 9:00 a.m., MONDAY THROUGH FRIDAY.
- NO LANE CLOSURES ARE ALLOWED ON NORTHBOUND COORS BLVD. FROM 4:00 p.m. TO 7:00 p.m., MONDAY THROUGH FRIDAY.
- ALL LANE CLOSURES ON COORS BLVD. ARE SUBJECT TO ARTERIAL/COLLECTOR ROAD USAGE FEES OF \$0.01 PER SQUARE FOOT OF BARRICADED AREA PER DAY.

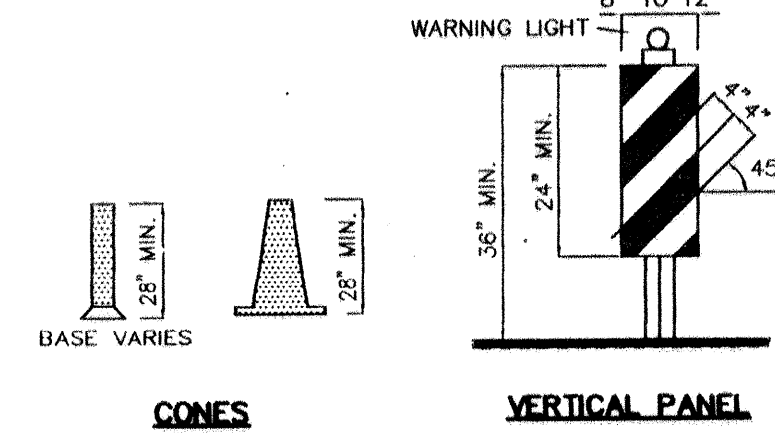
SIGN FACE DETAILS



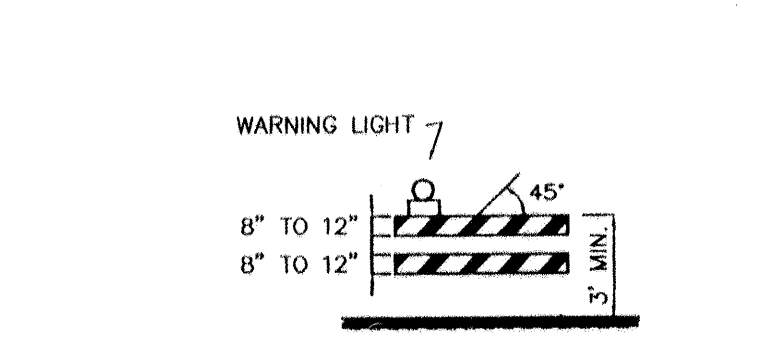
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.



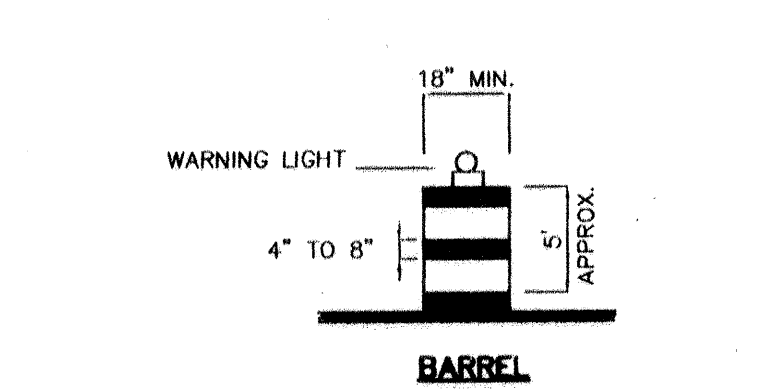
TYPE III BARRICADE



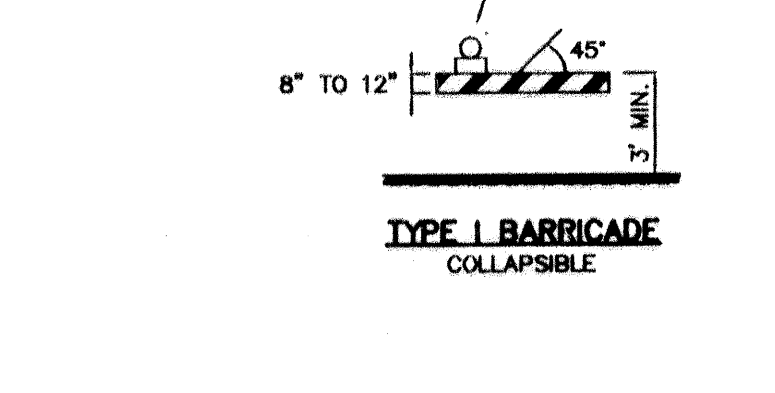
TYPE II BARRICADE



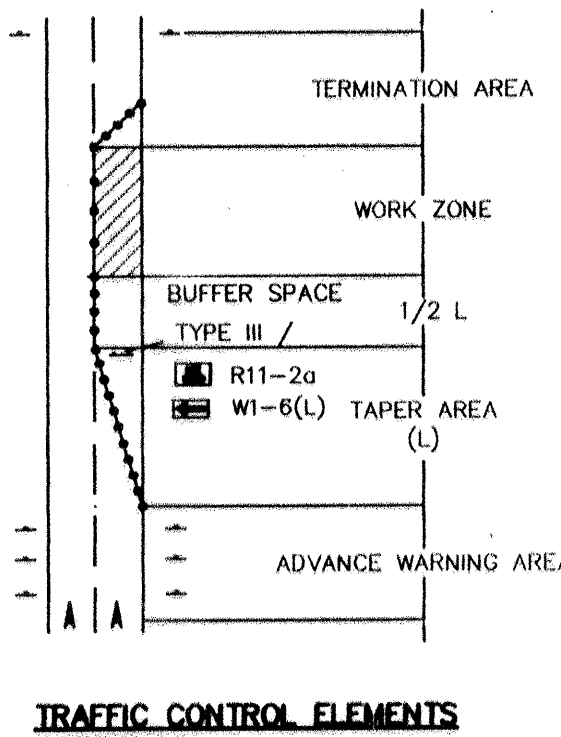
TYPE I BARRICADE



TYPE II BARRICADE



TYPE I BARRICADE



TRAFFIC CONTROL ELEMENTS

LEGEND

- WORK AREA
- BARRICADE - TYPE I, TYPE II, OR BARREL
- 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
- TAPER LENGTH - SEE CHART BELOW
- THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

TAPER REQUIREMENTS

SPEED LIMIT (MPH)	TAPER LENGTH (L) (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

SPEED LIMIT (MPH)	MINIMUM DISTANCE IN FEET BETWEEN SIGNS	FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

TAPER CRITERIA

TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT	L
40 MPH OR LESS	$L = WS^2$
45 MPH OR GREATER	$L = W \times S$

L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

AS BUILT INFORMATION

CONTRACTOR	DATE
WORK	DATE
STANDARD BY	DATE
APPROVED BY	DATE
REVISION BY	DATE
CORRECTED BY	DATE
MICRO-FILM INFORMATION	DATE
RECORDED BY	DATE
NO.	

BENCH MARKS

CONTRACTOR	DATE
WORK	DATE
STANDARD BY	DATE
APPROVED BY	DATE
REVISION BY	DATE
CORRECTED BY	DATE
MICRO-FILM INFORMATION	DATE
RECORDED BY	DATE
NO.	

SURVEY INFORMATION

FIELD NOTES	DATE
NO.	

ENGINEER'S SEAL

Professional Engineer Seal for Robert B. Hutto, State of New Mexico, License No. 10000, Exp. 12/31/2010.

REVISIONS

NO.	DATE	REMARKS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

DESIGNED BY

DRAWN BY

C.O.A. STANDARDS

CHECKED BY

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

LAST UPDATE

PROJECT NO.

MAP NO.

SHEET 8 OF 8