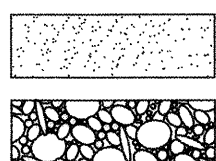


LEGEND

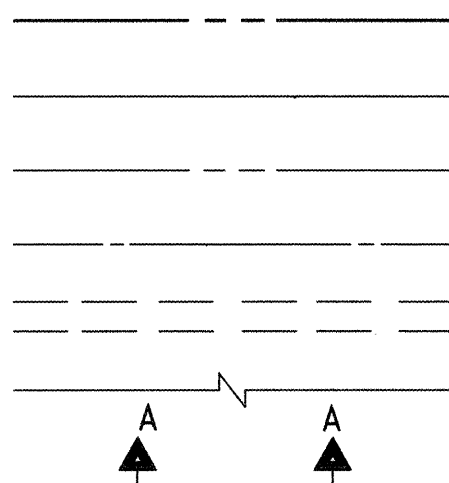
MATERIALS

CONCRETE
RIP-RAP



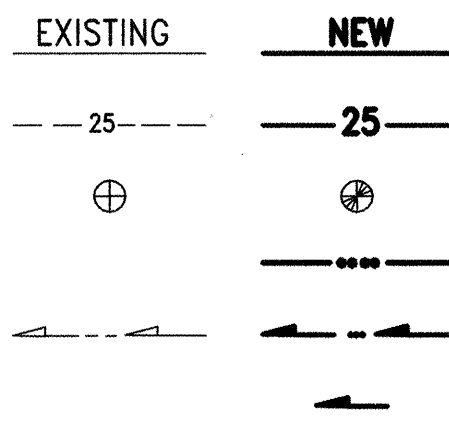
LINES

SUBDIVISION BOUNDARY
PROPERTY LINE (PLAN)
PROPERTY LINE (SECTION)
CENTERLINE
EASEMENT LINE
MATCH LINE
SECTION CUT LINE



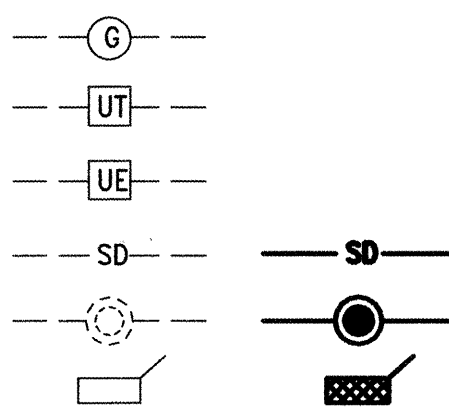
EARTHWORK

CONTOUR LINE
SPOT ELEVATION
PROJECT / PHASE BOUNDARY
FLOWLINE
DIRECTION OF FLOW



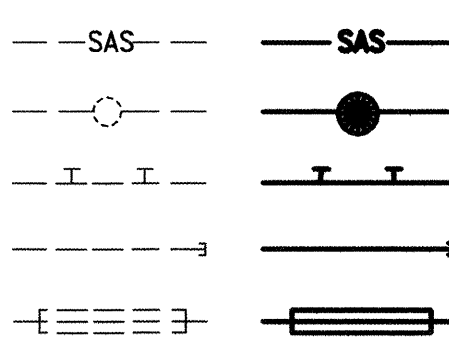
MISCELLANEOUS UTILITIES

GAS LINE
UNDERGROUND TELEPHONE
UNDERGROUND ELECTRICAL
STORM DRAIN
STORM DRAIN MANHOLE
STORM DRAIN INLET



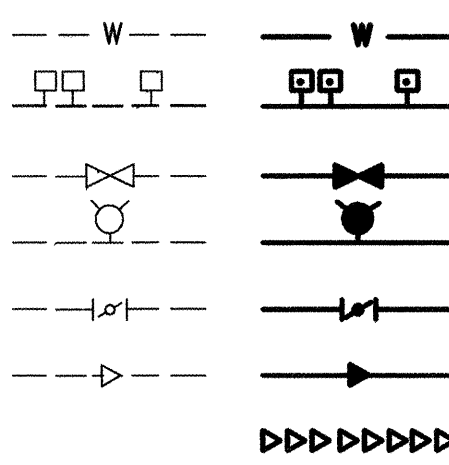
SANITARY SEWER

SANITARY SEWER LINE
SANITARY SEWER MANHOLE
SAS SERVICE CONNECTIONS
SAS CAP OR PLUG
ENCASEMENT



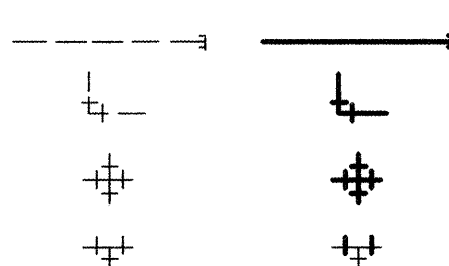
WATER

WATER LINE
WATER SERVICE CONNECTIONS
GATE VALVE
FIRE HYDRANT
BUTTERFLY VALVE
REDUCER
WATER PRESSURE ZONE BOUNDARY



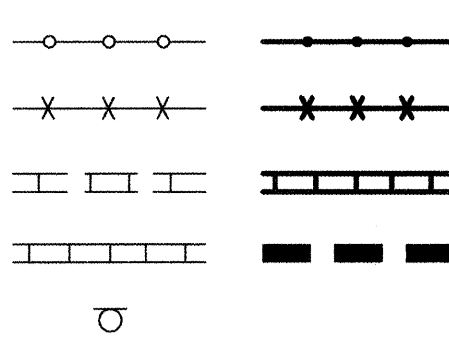
WATER FITTINGS

CAPS AND PLUGS
ELBOW
CROSS
TEE



MISCELLANEOUS

CHAINLINK FENCE
FIELD FENCE
COMMON YARD WALL
RETAINING WALL
POWER OR TELEPHONE POLE



CONSTRUCTION PLANS for LA CUEVA VILLAGE, UNIT 1 PATIO HOMES

ALBUQUERQUE, NEW MEXICO

NOVEMBER, 1997

RECORD DRAWING

INDEX OF DRAWINGS

SHEET	DESCRIPTION
1.	COVER SHEET, VICINITY MAP, GENERAL NOTES, LEGEND AND INDEX OF DRAWINGS
2.	SUBDIVISION PLAT
3.	SUBDIVISION PLAT
4.	SUBDIVISION PLAT
5.	SUBDIVISION PLAT
6.	GRADING PLAN
7.	SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS
8.	TYPICAL TRAFFIC CONTROL AND SIGNING EXAMPLES

PAVING AND STORM DRAINAGE IMPROVEMENTS

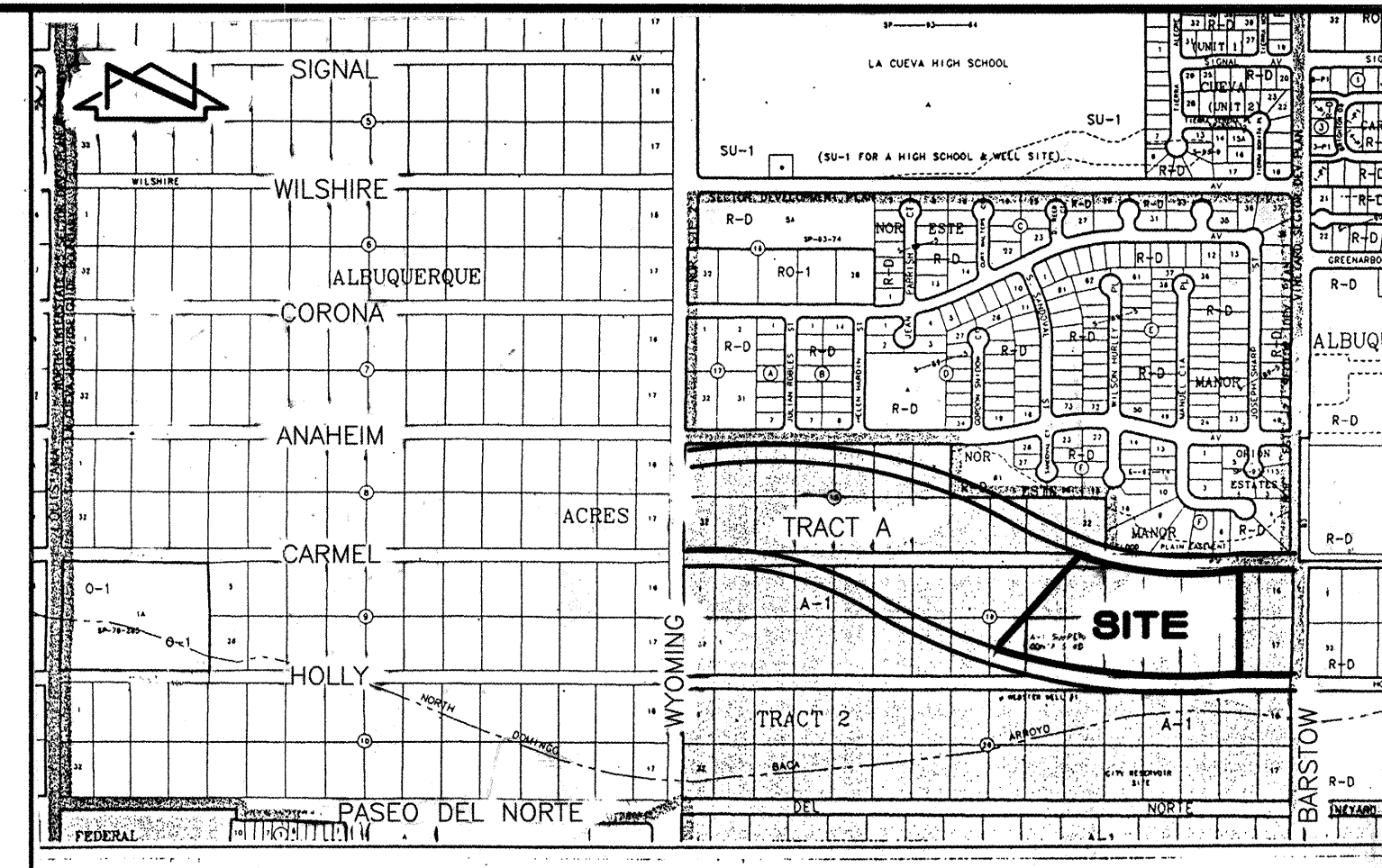
9.	PAVING AND STORM DRAINAGE SITE PLAN
10.	PAVING SECTIONS AND DETAILS
11.	STORM DRAIN AND CHANNEL PLAN AND PROFILE; PAVING AND DRAINAGE DETAILS
12.	CARMEL AVENUE N.E. STA 23+72.22 TO STA 34+90.05
13.	CARMEL AVENUE N.E. STA 34+90.05 TO STA 37+60.32 OSO RICO ROAD N.E. STA 10+00.00 TO STA 15+04.02 OSO FELIZ DRIVE N.E./LA CAVERNA AVENUE N.E. STA 10+00.00 TO STA 18+59.20
14.	OSO FELIZ DRIVE N.E./LA CAVERNA AVENUE N.E. STA 10+00.00 TO STA 18+59.20
15.	OSO ESCONDIDO DRIVE N.E. STA 10+00.00 TO STA 14+18.85 OSO ABRAZO DRIVE N.E. STA 10+00.00 TO STA 13+65.63

WATER AND SANITARY SEWER LINE EXTENSIONS

16.	WATER AND SANITARY SEWER SITE PLAN
17.	CARMEL AVENUE N.E. STA 23+72.22 TO STA 34+90.05
18.	CARMEL AVENUE N.E. STA 34+90.05 TO STA 38+40.16 LOT 39 PUBLIC SANITARY SEWER EASEMENT STA 10+00.00 TO STA 12+29.87
19.	OSO RICO ROAD N.E. STA 10+00.00 TO STA 14+94.02
20.	OSO FELIZ DRIVE N.E. /LA CAVERNA AVENUE N.E. STA 10+00.00 TO STA 18+58.77
21.	OSO ESCONDIDO DRIVE N.E. STA 9+86.37 TO STA 14+18.85 OSO ABRAZO DRIVE N.E. STA 9+88.81 TO STA 13+55.63

NORTH DOMINGO BACA TRAIL IMPROVEMENTS

22.	TRAIL PAVING PLAN AND PROFILE STA 27+51.69 TO STA 34+07.37
23.	TRAIL PAVING PLAN AND PROFILE STA 34+07.37 TO STA 38+87.98
24.	TRAIL PLANTING AND IRRIGATION PLAN



VICINITY MAP

SCALE: 1" = 750'

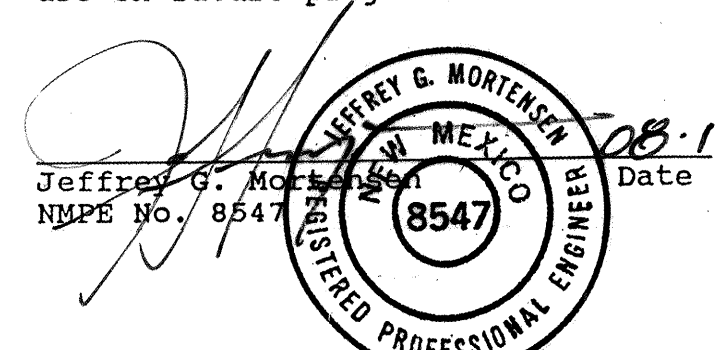
C-19

GENERAL NOTES

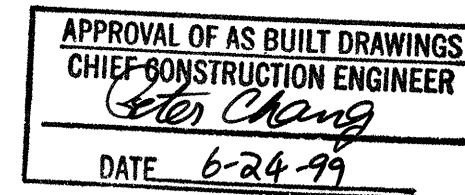
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS-PUBLIC WORKS CONSTRUCTION-1986 - UPDATE NO. 6.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 260-1990 (ALBUQUERQUE AREA), 1-800-321-ALERT (2537) (STATEWIDE) FOR LOCATION OF EXISTING UTILITIES.
- IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
- SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
- 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 DURING CONSTRUCTION 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 DEEPENED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
- ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- CONTRACTOR SHALL COORDINATE WITH THE WATER SYSTEM DIVISION FOR THE EXECUTION OF THE VALVE SHUT OFF PLAN, NOT LESS THAN FIVE (5) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT THE EXISTING PUBLIC WATER UTILITIES. ONLY WATER SYSTEM DIVISION PERSONNEL SHALL OPERATE EXISTING VALVES. REFER TO SECTION 18 OF THE SPECIFICATION. THE WATER SYSTEM DIVISION PHONE NUMBER IS 857-8200.
- CONTRACTOR SHALL NOTIFY THE CITY SURVEYOR 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 MONUMENTS THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION 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 SPECIFICATIONS.
- FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION CO-ORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE CONSTRUCTION CO-ORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPANCY AN INTERSECTION. CONTRACTOR MUST REFER TO SECTION 19 OF THE STANDARD SPECIFICATION FOR TRAFFIC CONTROL.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED STRIPING BY CONTRACTOR TO EXISTING LOCATION OR AS INDICATED BY THIS PLAN SET.
- CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
- ANY WORK OCCURRING WITHIN AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.



RECORD DRAWING



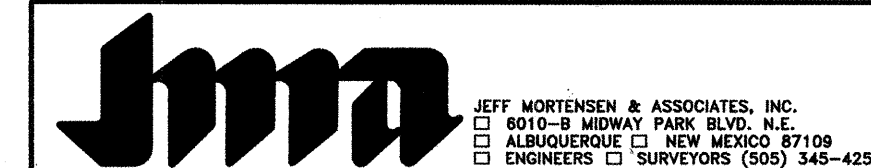
970011-970682

9/10/16/18	1-24	Billy G. Goshley	3-25-98	R.W. Kane	2-27-98	3-5-98
------------	------	------------------	---------	-----------	---------	--------

REV.	SHEETS	CITY	ENGINEER	DATE	USER	DEPARTMENT	DATE	USER	DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE	*****	APPROVED FOR CONSTRUCTION					
	DRC Chairman	Billy G. Goshley	12-9-97							
	Transportation	R.W. Kane	12-9-97							
	Water/Wastewater	John Goshley	12-9-97							
	Hydrology	John Goshley	12-9-97							
	C.I.P.	John Goshley	12-9-97							
	Const. Mngmt.	John Goshley	12-9-97							
	Const. Coord.	John Goshley	12-9-97							
	City Project No.	572984								
	SHEET	1	OF	24						

DRB 96-546

02-24-98
11-25-97



City Engineer Date

LA CUEVA VILLAGE, UNIT 1
SUBDIVISION PLAT OF
ALBUQUERQUE, NEW MEXICO
JULY, 1997

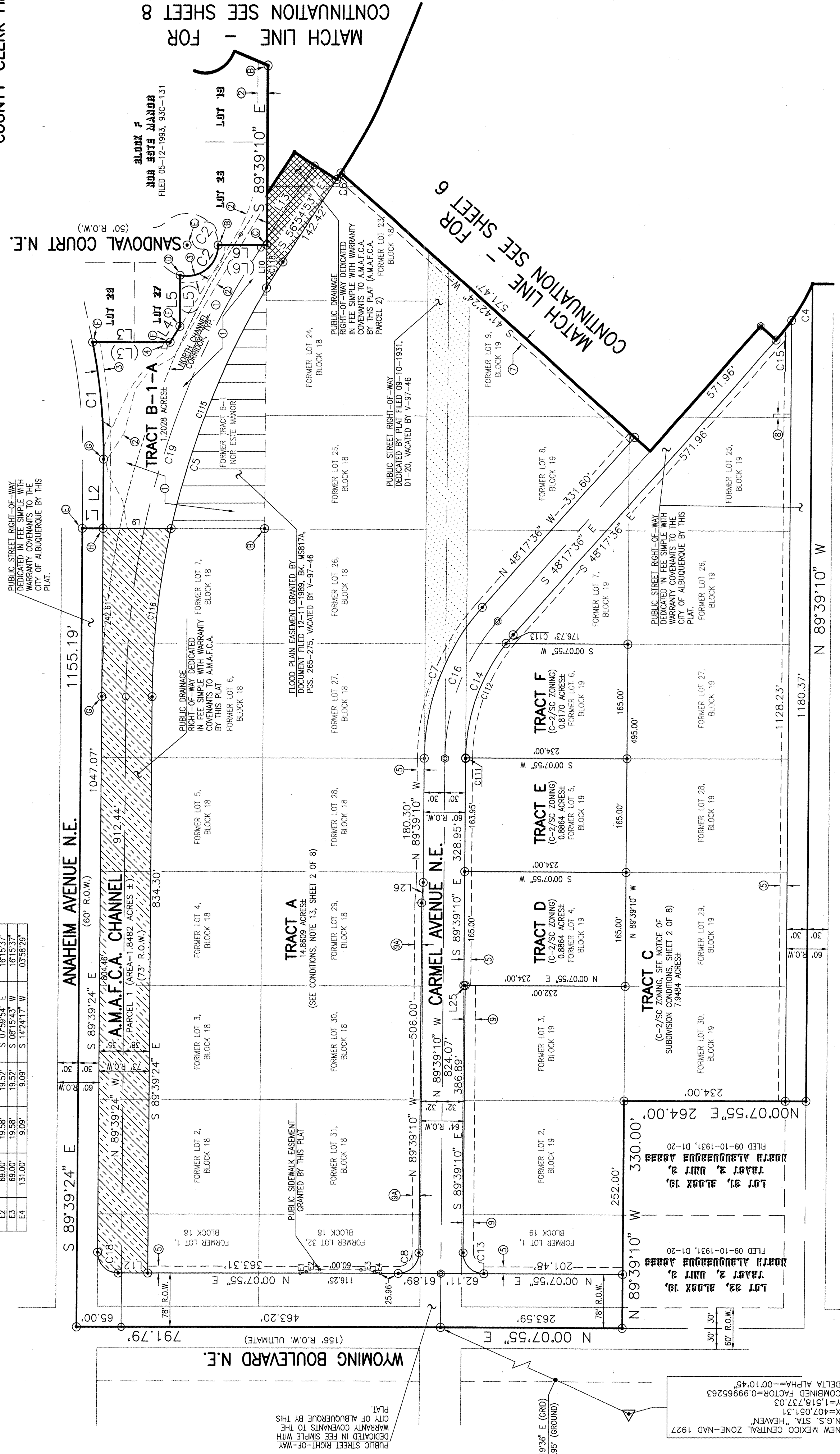
SCANNED BY
MESA REPRO

97097105

State of New Mexico } SS
County of Bernalillo
This instrument was filed for record on
28th Recorded in Vol. 16356
At 10:35 a.m. of records of said County Folio 66:10
Clerk & Recorder
Frederick Woodhead

COUNTY CLERK FILING DATA

CURVE	RADIUS	LENGTH	CHORD	BEARING	DELTA
E1	131.00'	9.09'	9.09'	S 14°08'38" E	03°58'29"
E2	69.00'	19.58'	19.52'	S 7°59'54" E	67°13'37"
E3	69.00'	19.58'	19.52'	S 08°15'43" W	16°12'37"
E4	131.00'	0.00'	0.00'	S 44°24'12" W	32°58'20"



JEFF MORTENSEN & ASSOCIATES, INC.
☐ 6010-B MIDWAY PARK BLVD. N.E.
☐ ALBUQUERQUE ☐ NEW MEXICO 87109
☐ ENGINEERS ☐ SURVEYORS (505) 345-4250
 JOB #940955

SHEET 5 OF 8

SP #97-07-10-10:35-0321

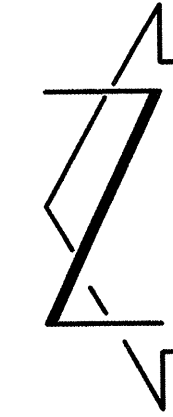
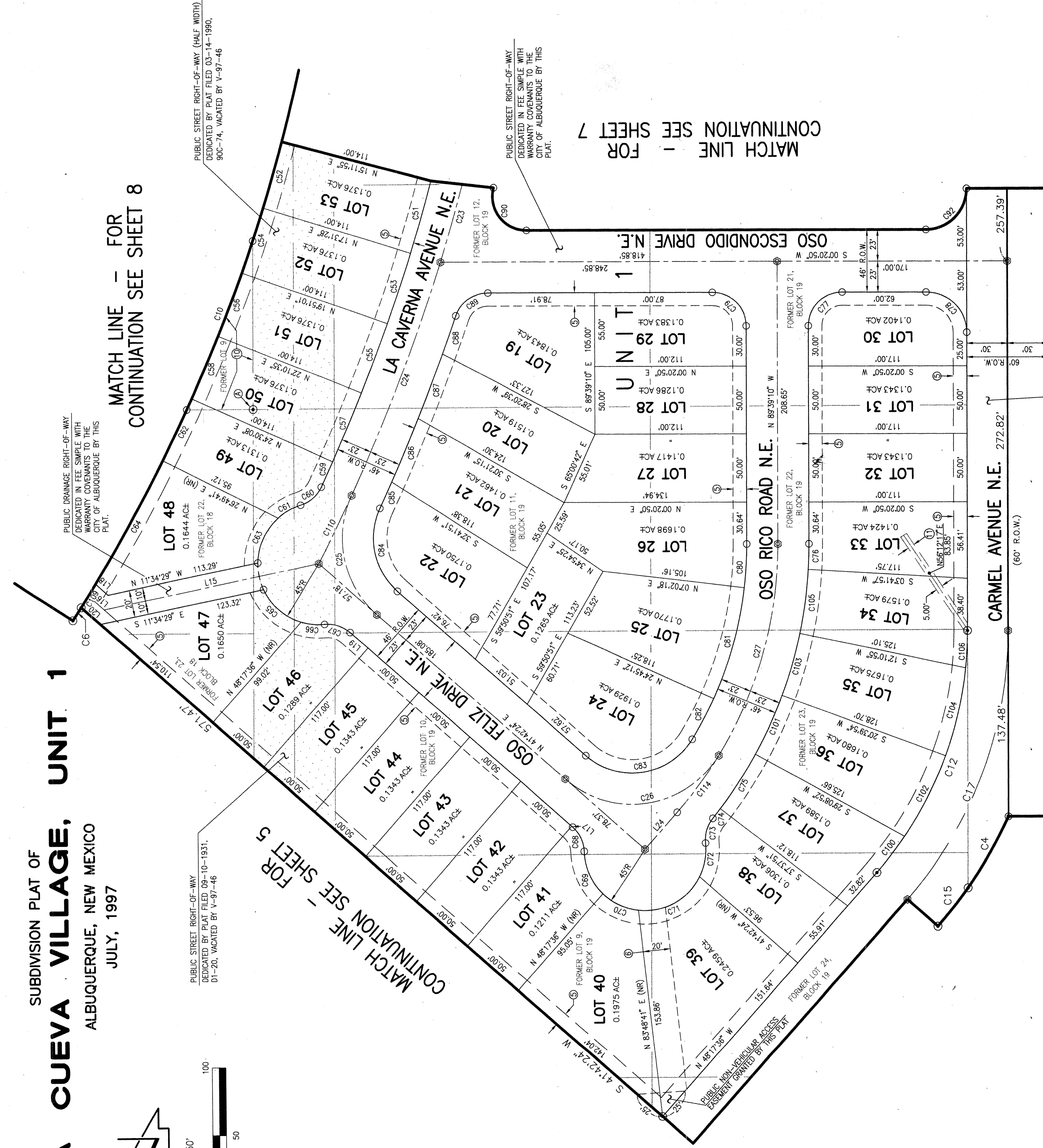
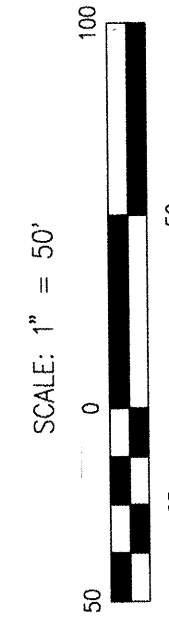
LA CUEVA VILLAGE, UNIT 1
SUBDIVISION PLAT OF
ALBUQUERQUE, NEW MEXICO
JULY 1997

MATCH LINE — FOR
 CONTINUATION SEE SHEET 8

97097105

State of New Mexico } SS
County of Bernalillo
This instrument was filed for record
at _____ o'clock _____^{PM} Recorded _____
of records of said County Folio _____
Tudy Woodward, Clerk & Recorder
Dorothy C.

COUNTY CLERK FILING DATA

CALF: $1^{\text{st}} = 50'$ 

PUBLIC STREET RIGHT-OF-WAY
DEDICATED IN FEE SIMPLE WITH
WARRANTY COVENANTS TO THE
CITY OF ALBUQUERQUE BY THIS
PLAT.

JEFF MORTENSEN & ASSOCIATES, INC.
☐ 6010-B MIDWAY PARK BLVD. N.E.
☐ ALBUQUERQUE ☐ NEW MEXICO 871
☐ ENGINEERS ☐ SURVEYORS (505)
 JOB #940955

SHEET 6 OF 8

SUBDIVISION PLAT OF
LA CUEVA VILLAGE, UNIT 1
ALBUQUERQUE, NEW MEXICO
JULY, 1997

SCANNED BY
MESA REPRO

97097105
State of New Mexico } SS
County of Bernalillo }
This instrument was filed for record on

EASEMENT TABLES					
LINE	DIRECTION	LENGTH	CHORD	BEARING	DELTA
E5	N 89°39'10" W	200.00'	202.41'	S 47°33'37" E	57°50'06"

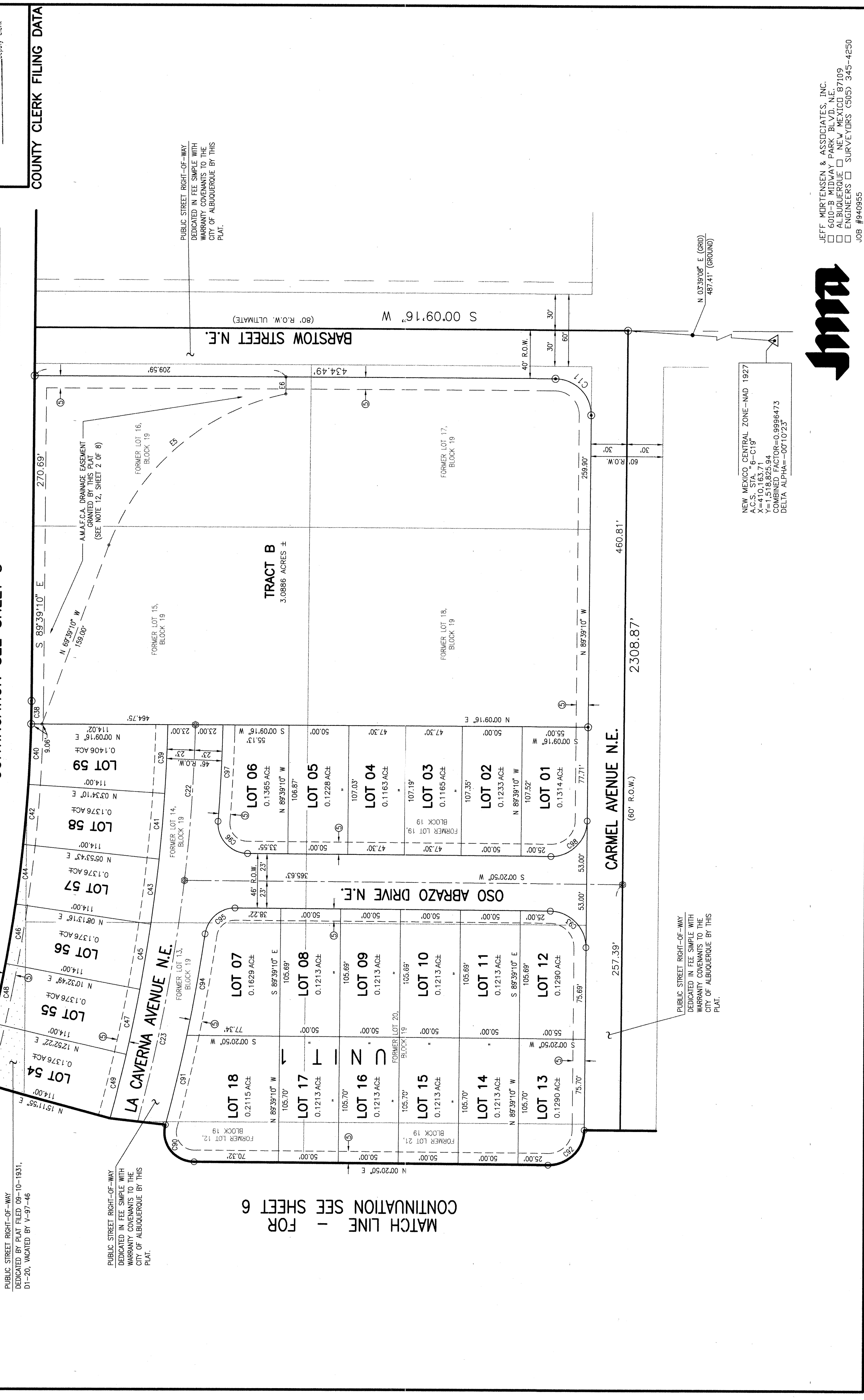
MATCH LINE - FOR
CONTINUATION SEE SHEET 8

PUBLIC STREET RIGHT-OF-WAY (NAME WIDTH)
D1-20, VACATED BY Y-97-46
900'-74', VACATED BY Y-97-46

SCALE: 1" = 50'
0 25 50 100
PUBLISHED BY PLAT FILED 09-10-1931.
D1-20, VACATED BY Y-97-46

97097105
State of New Mexico } SS
County of Bernalillo }
This instrument was filed for record on

97097105
State of New Mexico } SS
County of Bernalillo }
This instrument was filed for record on

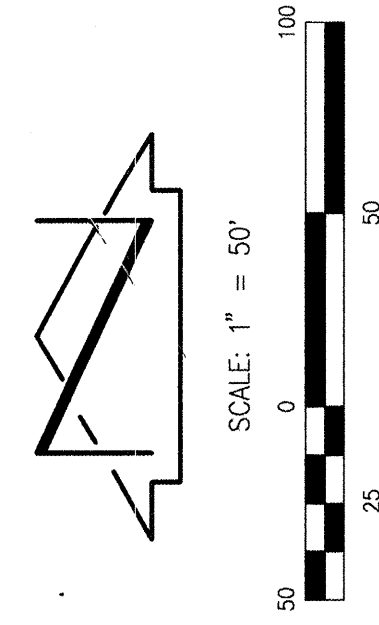


SHEET 7 OF 8

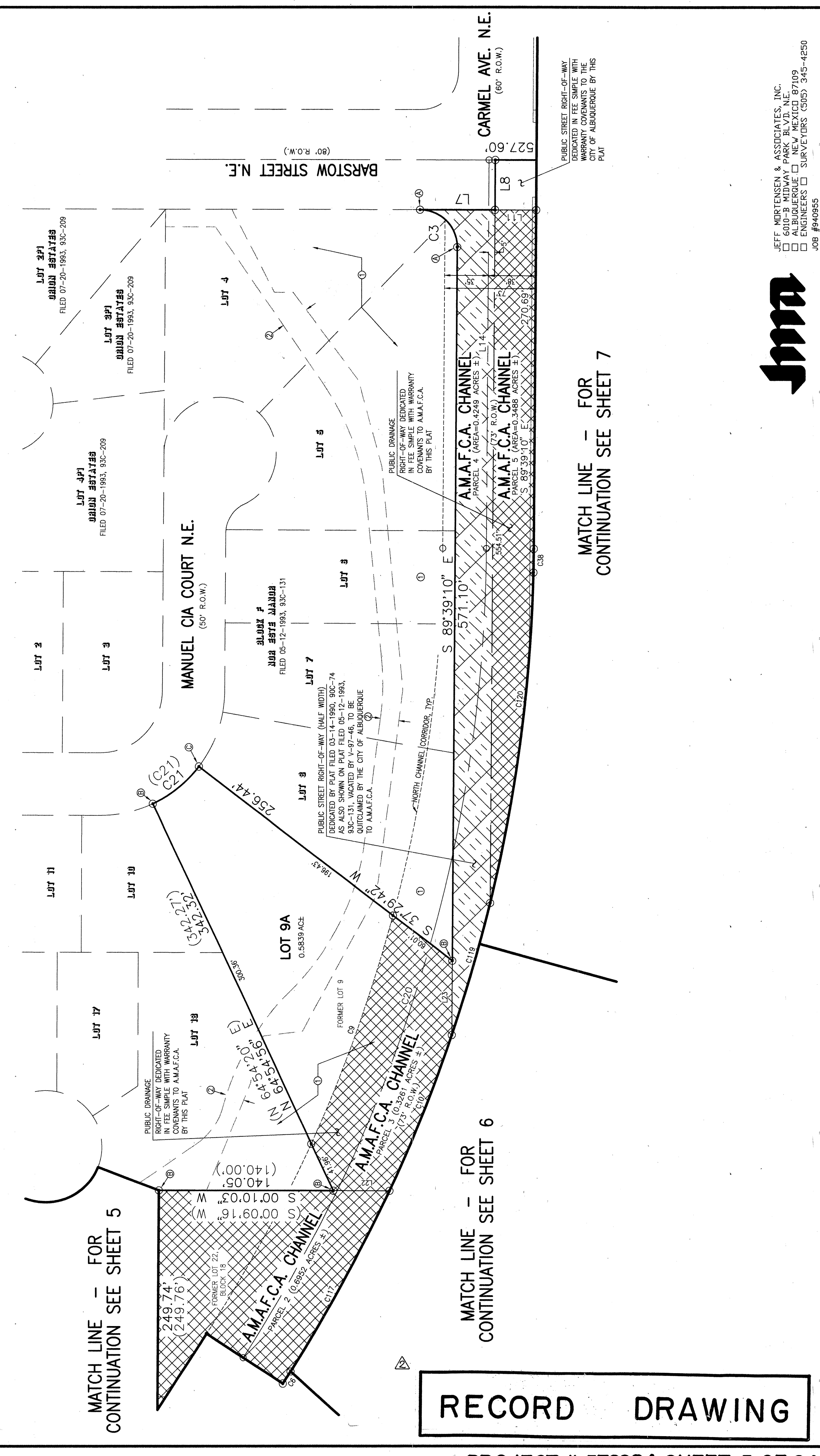
SUBDIVISION PLAT OF
LA CUEVA VILLAGE, UNIT 1
ALBUQUERQUE, NEW MEXICO
JULY, 1997

97097105
State of New Mexico } SS
County of Bernalillo }
This instrument was filed for record on

97097105
State of New Mexico } SS
County of Bernalillo }
This instrument was filed for record on

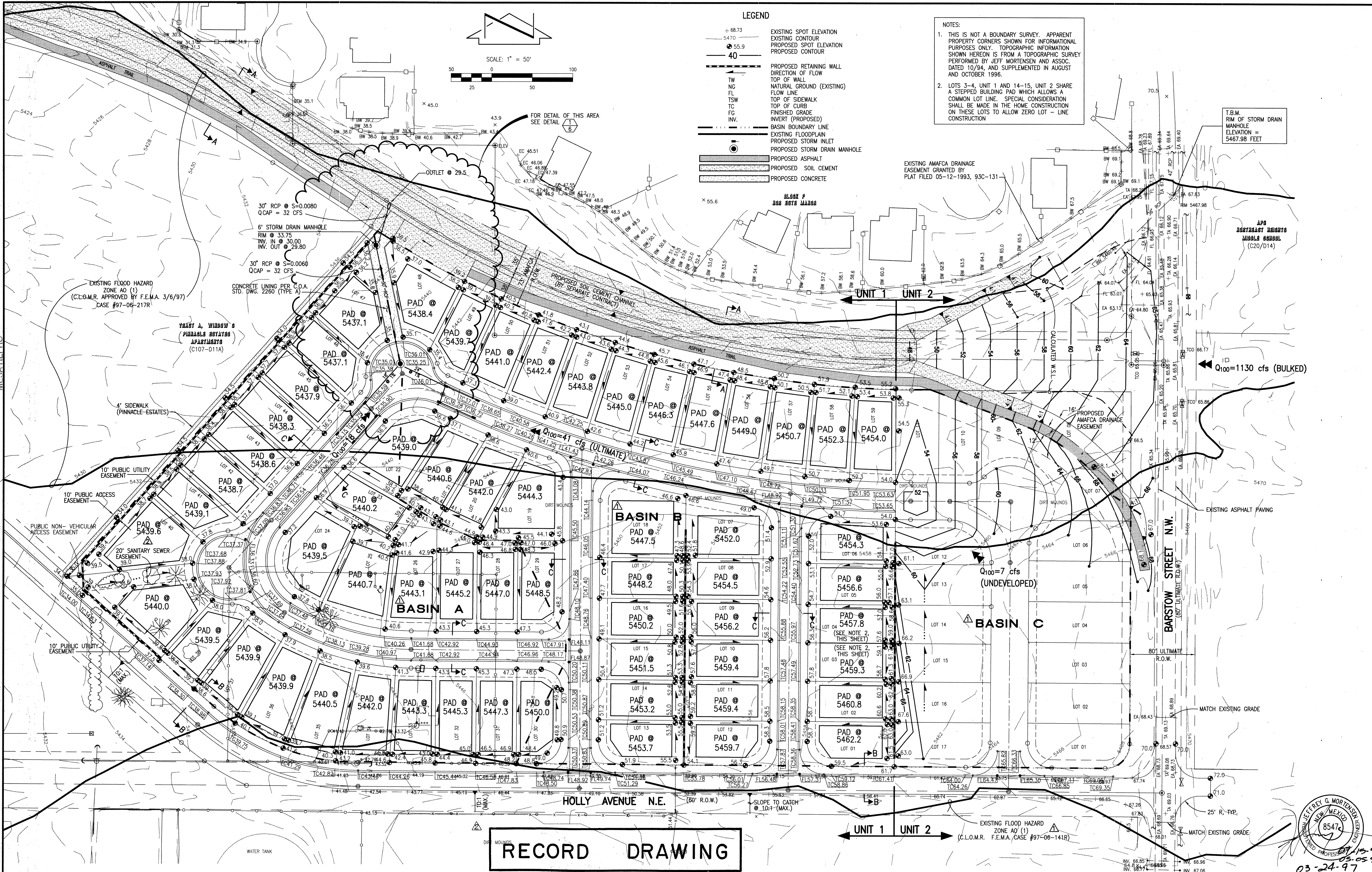


COUNTY CLERK FILING DATA



SHEET 8 OF 8

RECORD DRAWING

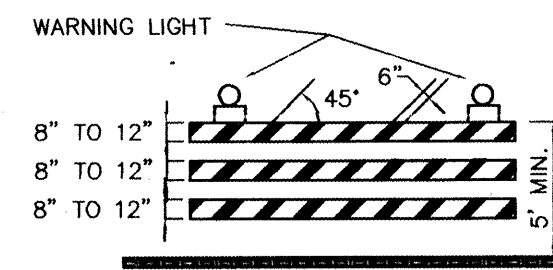


RECORD DRAWING

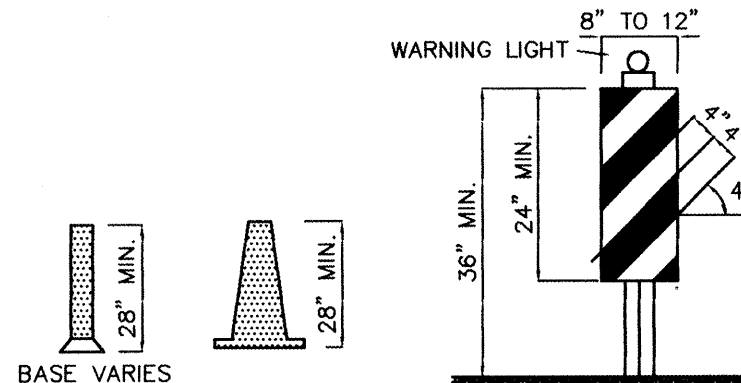
 JEFF MORTENSEN & ASSOCIATES, INC. 600-B MIDWAY PARK BLVD. NE ALBUQUERQUE, NEW MEXICO 87109 ENGINEERS ☐ SURVEYORS (SOS) 345-4250	APPROVED FOR ROUGH GRADING		GRADING AND DRAINAGE PLAN - UNIT 1 LA CUEVA VILLAGE				NO. DATE BY				JOB NO. 970011
	 CITY HYDROLOGIST						DESIGNED BY G.M.				5/97 G.M. CHANGE F.E.M.A.#, ADD BASINS AND SHEET 8
	9-11-97 DATE		DRAWN BY S.G.H./J.Y.R.				7/97 G.M. REVISE LOTS 39 AND 40, ADD EASEMENT				
			APPROVED BY J.G.M.								SHEET 3 OF 8

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

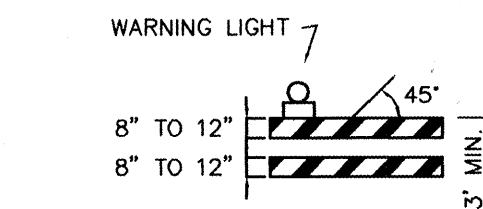
1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT 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. CONTRACTOR SHALL NOT BEGIN WORK BEFORE 7:00 A.M. OR END WORK AFTER 7:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.
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. 24 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 ITS 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" WITH SUPER ENGINEERING GRADE SHEETING OR BETTER.
27. Any work affecting traffic on Barstow Street which involves a lane closure shall be performed between 9:00 a.m. and 2:30 p.m. on Monday through Friday, at night (7:00 p.m. to 5:00 a.m.), or on a weekend. If it is a school holiday, the weekday time can be extended until 4:00 p.m., Monday through Friday. A total road closure may be allowed, but only for one weekend between 7:00 p.m. on Friday through 5:00 a.m. on Monday. However, any closure must be coordinated with and approved a minimum of five days in advance by the Construction Coordination Division. The Contractor must submit a Barricading Plan for any lane closure or road closure, including a Detour Plan.



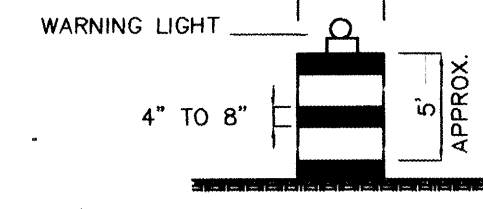
TYPE III BARRICADE



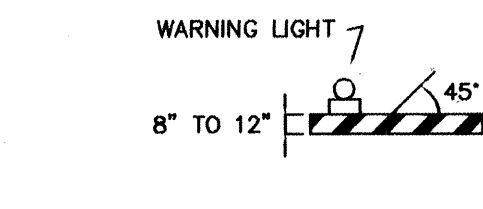
TYPE II BARRICADE



TYPE I BARRICADE



TYPE II BARRICADE



TYPE I BARRICADE

- 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 MILES PER HOUR	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

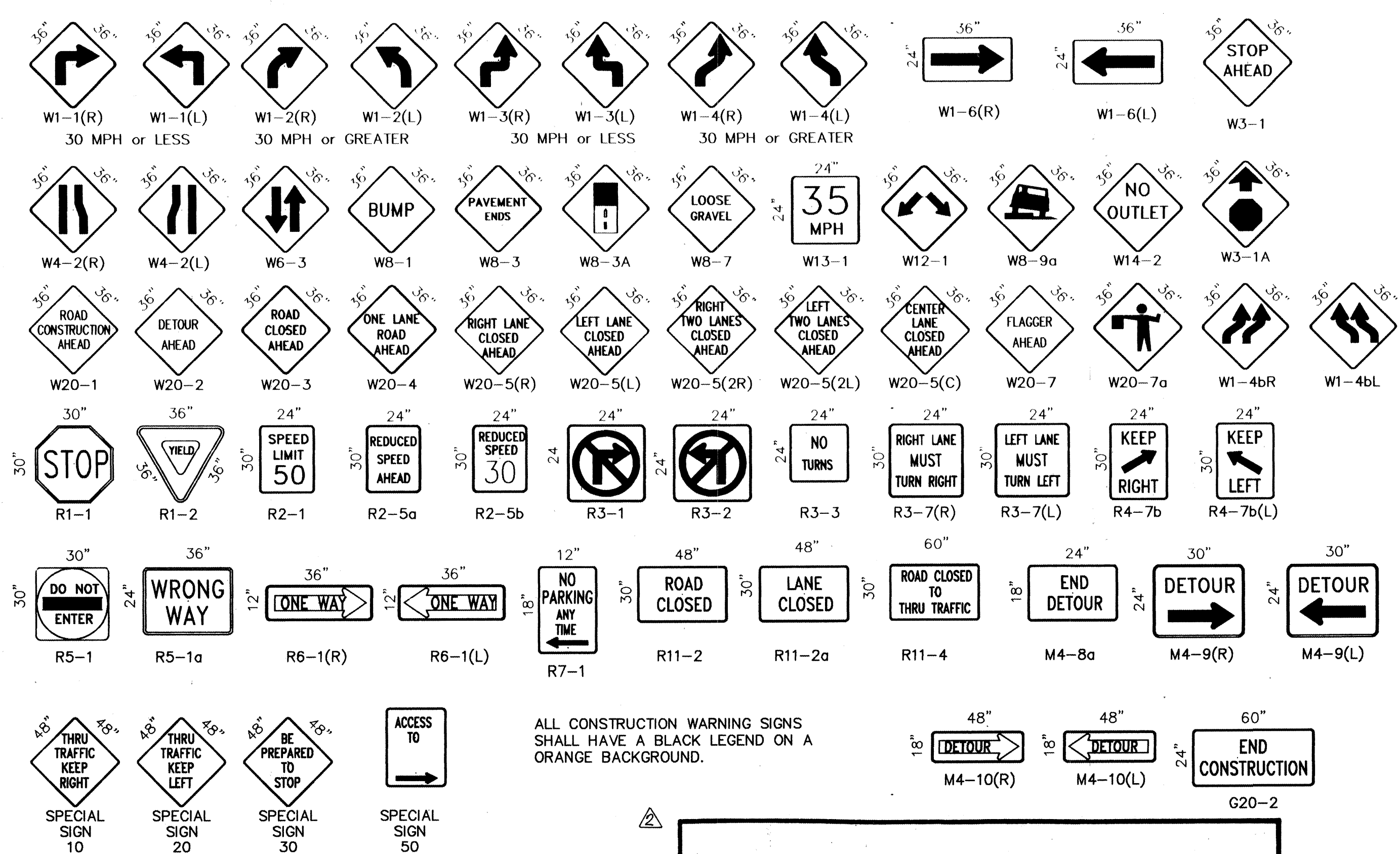
TAPER CRITERIA

TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	1 MINIMUM
SHULING 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	$L = \frac{WS^2}{60}$
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	

SIGN FACE DETAILS



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

RECORD DRAWING

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: LA CUEVA VILLAGE, UNIT 1 PATIO HOMES
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

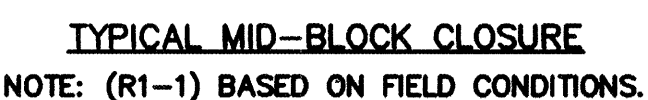
DESIGN REVIEW COMMITTEE: CDA Standard
CITY ENGINEER APPROVAL: [Signature]
MO./DAY/YR: [Blank]
LAST UPDATE: [Blank]

PROJECT NO. 572984
MAP NO. C-19
SHEET 7 OF 24

SCANNED BY MESA REPORTING

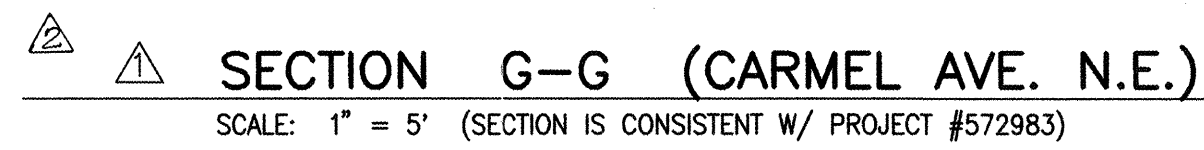


TYPICAL STREET CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.

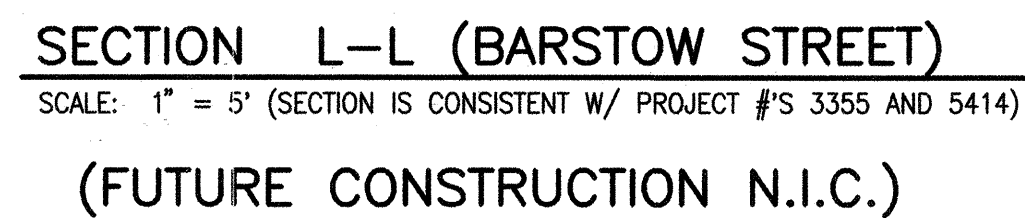


DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL		MO./DAY/YR.		MO./DAY/YR.	
C.O.A. Standard		LAST UPDATE					
PROJECT NO. 572984		MAP NO. C-19		SHEET 8 OF 24			

[illegible]



JEFFREY G. MORTENSEN
NEW MEXICO
ENGINEER
8547
Jeffrey G. Mortensen
NMEE No. 8547
Date 02-05-98



SCALE: 1" = 2' - 0"

NOTES:

1. FOR CONSTRUCTION DETAILS REFER TO C.O.A. STD. DWGS. 2362 AND 2368
2. WHEN SIDEWALK IS DEFERRED CONSTRUCTION, 1/2" EXPANSION JOINT SHALL BE DELETED

2. DOUBLE CHECK VALVES PROVIDED ON ALL SERVICES.



SCALE: 1" = 2' - 0"

NOTES

1. FOR CONSTRUCTION DETAILS REFER TO C.O.A. STD. DWGS. 2362 AND 2368
2. WHEN SIDEWALK IS DEFERRED CONSTRUCTION, 1/2" EXPANSION JOINT SHALL BE DELETED

② 3. DOUBLE CHECK VALVES PROVIDED ON ALL SERVICES.



SCALE: 1" = 1'-0"



RECORD DRAWING

JEFF MORTENSEN & ASSOCIATES, INC.
☐ 6010-B MIDWAY PARK BLVD. N.E.
☐ ALBUQUERQUE ☐ NEW MEXICO 87109
☐ ENGINEERS ☐ SURVEYORS (505) 345-4250

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE:	LA CUEVA VILLAGE, UNIT 1, PATIO HOMES PAVING AND STORM DRAINAGE IMPROVEMENTS PAVING SECTIONS AND DETAILS

Design (Review) Committee 		City Engineer Approval		Last Design Update		Mo./Day/Yr. 		Mo./Day/Yr. 	
City Project No. 572984		Zone Map No. C-19		Sheet 10		Of 24			

ENGINEER'S SEAL

11-25-97 02.2498



The seal is circular with the text "MEXICO" at the top, "PROFESIONAL ENGINEER" on the right, "REGISTERED" at the bottom, and "J. A. M. M." on the left. The number "8547" is in the center. A signature is written across the seal.

NO.		DATE	REMARKS	BY
Revisions				
DESIGN				
Designed By	GM		Date	05-97
Drawn By	DLM		Date	05-97
Checked By	JGM		Date	11-97

RECORD DRAWING

CURVE TABLE				
CURVE	RADIUS	LENGTH	CHORD	BEARING
①	280.00'	202.12'	197.76	S68°58'23"E
②	300.00'	216.56'	211.89	S68°58'23"E
③	320.00'	230.99'	226.01	S68°58'23"E
④	30.00'	47.12'	42.43	N45°20'50"E
⑤	30.00'	47.12'	42.43	S44°39'10"E

④	TC	FL
1	50.11	49.44
2	-	49.17
3	49.29	48.62

⑤	TC	FL
1	51.13	50.46
2	-	50.30
3	50.90	50.23

④	TC	FL
1	57.63	56.96
2	-	56.72
3	56.83	56.16

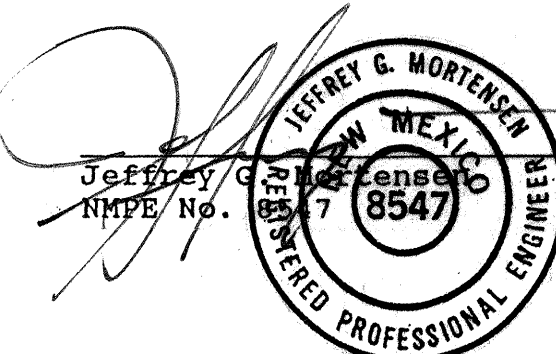
⑤	TC	FL
1	58.73	58.06
2	-	57.90
3	58.48	57.81

STREET PAVING IMPROVEMENTS:

- ALL SLOPES AS SHOWN ON PROFILES ARE BASED ON STREET CENTERLINE STATIONING EXCEPT CUL-DE-SACS AND EYEBROWS WHERE STATIONING IS ALONG FACE-OF-CURB.
- WHERE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK OR PAVEMENT IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- ALL DIMENSIONS OF CURB AND CURB RETURNS ARE SHOWN TO FACE-OF-CURB.
- ALL 4' SIDEWALKS SHOWN HEREON SHALL BE CONSTRUCTED UNDER SEPARATE PERMIT UNLESS OTHERWISE NOTED. (SIDEWALK DEFERRAL).
- ALL WHEELCHAIR RAMPS MUST BE CONSTRUCTED UNDER THIS WORK ORDER.
- ALL CURB AND GUTTER SHOWN HEREON SHALL BE STANDARD CURB AND GUTTER PER CITY OF ALBUQUERQUE STANDARD DRAWING 2415 UNLESS OTHERWISE NOTED.
- UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR WILL PROVIDE AND INSTALL ALL STREET SIGNS AND STRIPING. ALL STRIPING AND SIGNAGE SHALL COMPLY WITH THE M.U.T.C.D. AND THE THIRD DRAFT SPECIFICATIONS BY C.O.A. TRAFFIC ENGINEERING OPERATIONS, JUNE 1994.
- CONTRACTOR SHALL CONTACT TRAFFIC ENGINEERING OPERATIONS PRIOR TO STRIPING AND SIGN INSTALLATION.

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.



PAVING LEGEND:

- TEMPORARY PAVING PER C.O.A. STD DWG 2415 (DELETED THIS SHEET)
- PERMANENT PAVING PER APPLICABLE SECTIONS (SHEET 10)
- CONCRETE



JEFF MORTENSEN & ASSOCIATES, INC.
600 S. MIDWAY PARK BLVD. NE
ALBUQUERQUE, N.M. 87109
ENGINEERS & SURVEYORS (505) 345-4250

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: LA CUEVA VILLAGE UNIT 1, PATIO HOMES
PAVING AND STORM DRAINAGE IMPROVEMENTS
CARMEL AVE. N.E. STA 23+72.22 TO STA 34+90.05



City Engineer Approval

Last Design Update

City Project No.

Zone Map No.

Sheet

12

24

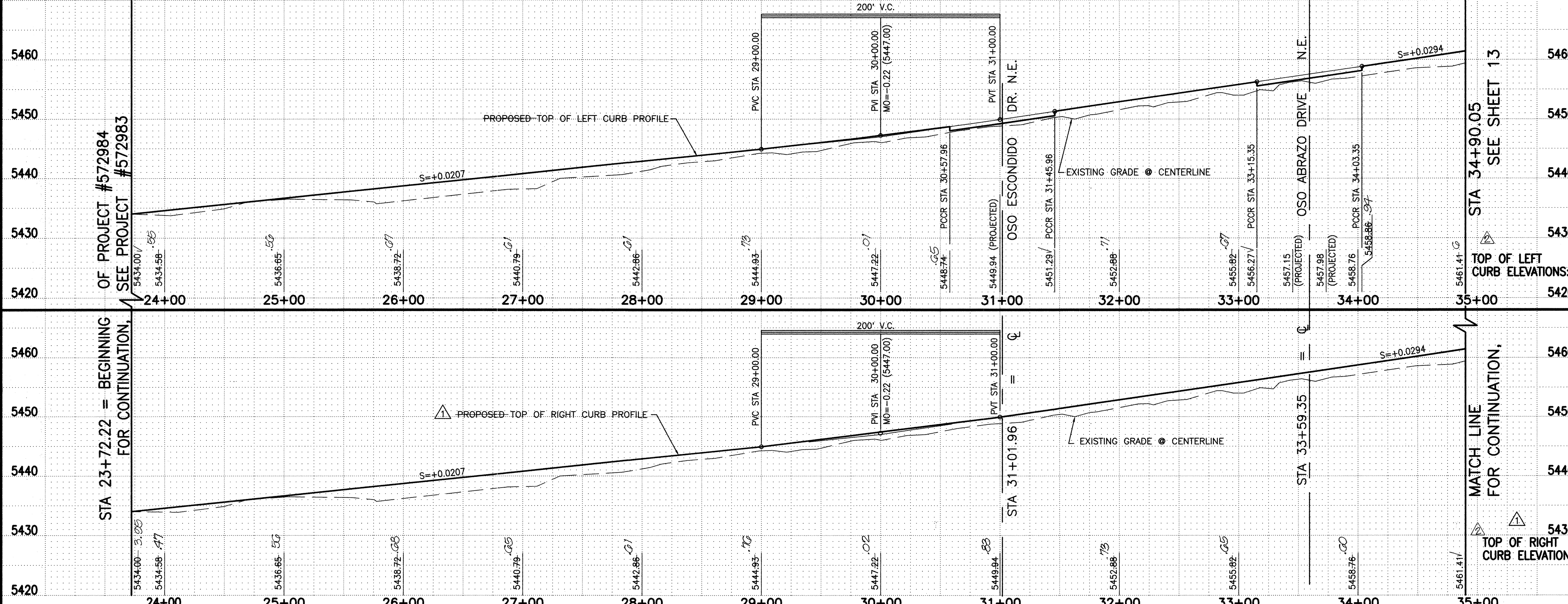
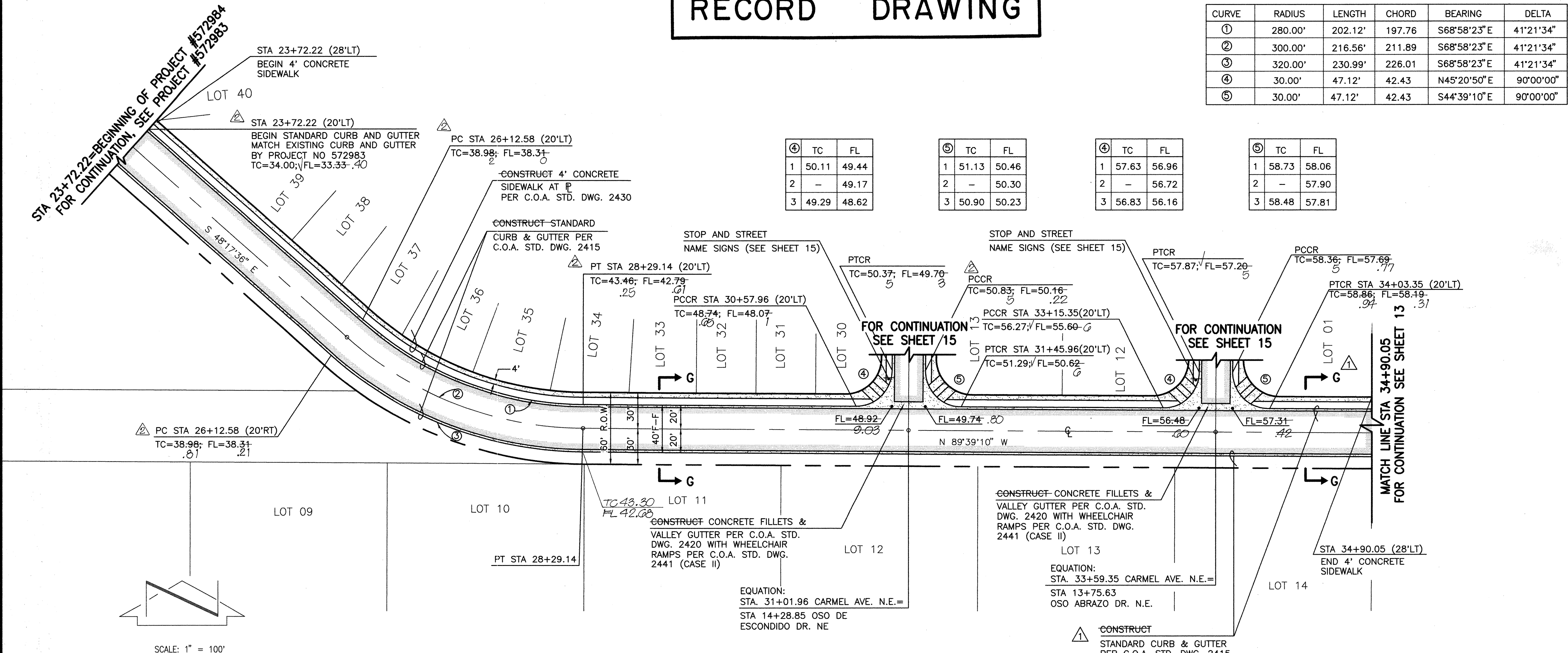
72984

C-19

970682 970011-

CARMEL AVENUE N.E.

SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'



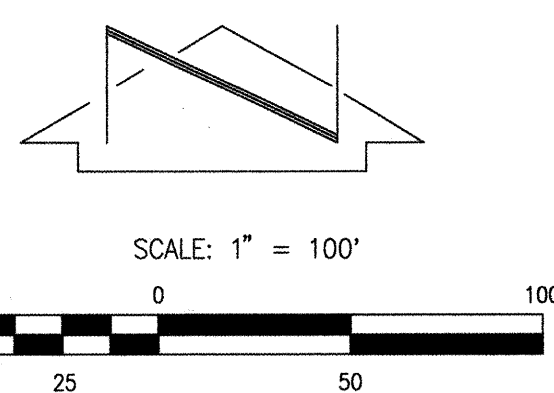
SCANNED BY
MESA REPRO

11-25-97 02-24-98

DESIGNED BY: G.M. / G.R.B.
DRAWN BY: D.L.M.
CHECKED BY: J.C.M.

REVISIONS
DATE: 08-97
DATE: 08-97
DATE: 11-97

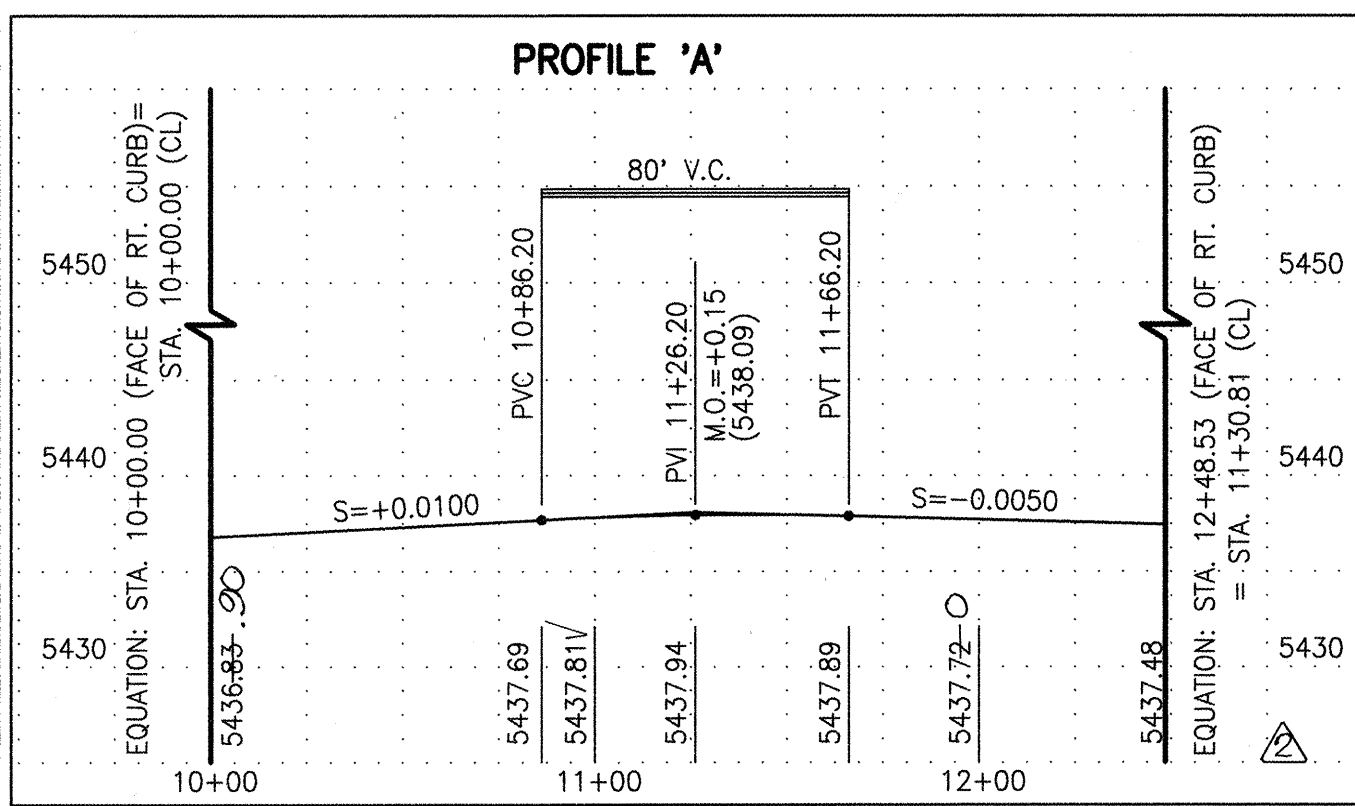
SCANNED BY
MESA REPRO



NW RETURN			NE RETURN		
①	TC	FL	②	TC	FL
1	65.61	64.94	1	66.72	66.05
2	-	64.72	2	-	65.92
3	64.83	64.16	3	66.46	65.79

REFER TO NOTE 27, SHEET 5
FOR NOTE CONCERNING TRAFFIC
CONTROL AT BARSTOW STREET

CURB AND CENTERLINE CURVE DATA					
CURVE	RADIUS	LENGTH	CHORD	BEARING	DELTA
①	30.00'	47.12'	42.43'	N45°20'50"E	90°00'00"
②	30.00'	47.12'	42.43'	S44°39'10"E	90°00'00"
③	25.00'	39.27'	35.36'	N44°39'10"W	90°00'00"
④	25.00'	39.27'	35.36'	N45°20'50"E	90°00'00"
⑤	286.00'	156.88'	154.92'	S73°56'19"E	31°25'42"
⑥	300.00'	164.56'	162.50'	N73°56'19"W	31°25'42"
⑦	314.00'	172.24'	170.09'	S73°56'19"E	31°25'42"
⑧	61.00'	106.39'	93.41'	S08°15'32"E	99°55'52"
⑨	75.00'	130.81'	114.85'	N08°15'32"W	99°55'52"
⑩	89.00'	155.23'	136.29'	S08°15'32"E	99°55'52"
⑪	25.00'	22.18'	21.46'	S76°25'42"E	50°49'47"
⑫	25.00'	23.18'	22.36'	N68°16'18"E	53°07'48"
⑬	40.00'	137.31'	79.15'	S03°30'12"E	196°40'48"

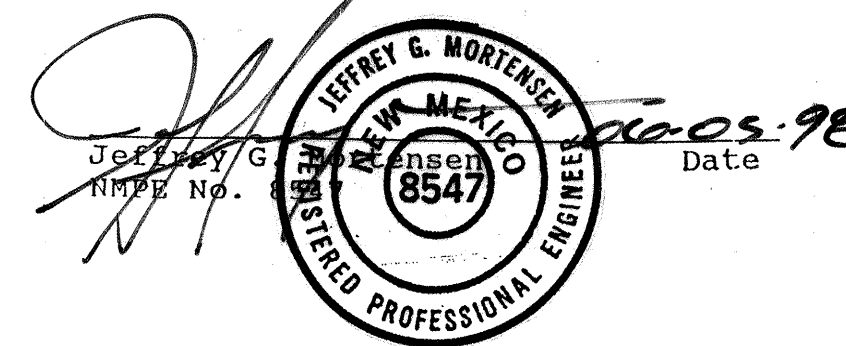


- STREET PAVING IMPROVEMENTS:**
- ALL SLOPES AS SHOWN ON PROFILES ARE BASED ON STREET CENTERLINE STATIONING EXCEPT CUL-DE-SACS AND EYEBROWS WHERE STATIONING IS ALONG FACE-OF-CURB.
 - WHERE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK OR PAVEMENT IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
 - ALL DIMENSIONS OF CURB AND CURB RETURNS ARE SHOWN TO FACE-OF-CURB.
 - ALL 4' SIDEWALKS SHOWN HEREON SHALL BE CONSTRUCTED UNDER SEPARATE PERMIT UNLESS OTHERWISE NOTED. (SIDEWALK DEFERRAL).
 - ALL WHEELCHAIR RAMPS MUST BE CONSTRUCTED UNDER THIS WORK ORDER.
 - ALL CURB AND GUTTER SHOWN HEREON SHALL BE STANDARD CURB AND GUTTER PER CITY OF ALBUQUERQUE STANDARD DRAWING 2415 UNLESS OTHERWISE NOTED.
 - UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR WILL PROVIDE AND INSTALL ALL STREET SIGNS AND STRIPING. ALL STRIPING AND SIGNAGE SHALL COMPLY WITH THE M.U.T.C.D. AND THE THIRD DRAFT SPECIFICATIONS BY C.O.A. TRAFFIC ENGINEERING OPERATIONS, JUNE 1994.
 - CONTRACTOR SHALL CONTACT TRAFFIC ENGINEERING OPERATIONS PRIOR TO STRIPING AND SIGN INSTALLATION.
 - DRIVEPADS (N.I.C.) MAY BE USED AS HANDICAP ACCESS WITHIN THE EYEBROWS.

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

Jeffrey G. Mortensen
Professional Engineer
No. 8547
Date 02-25-98



PAVING LEGEND:

	TEMPORARY PAVING PER C.O.A. STD DWG 2415
	PERMANENT PAVING PER APPLICABLE SECTIONS
	CONCRETE
	STREET LIGHT (BY P.N.M.)

G.M.		BY		REMARKS	
02/98	Full Width Paving Improvements	02/98	AS-BUILT AND CERTIFY		
NO.		DATE		DESIGN	
Designed By	G.M./G.R.B.	Date	08/1997	Checked By	J.G.M.
Drawn By	J.Y.R.	Date	08/1997		
		Date	11/1997		

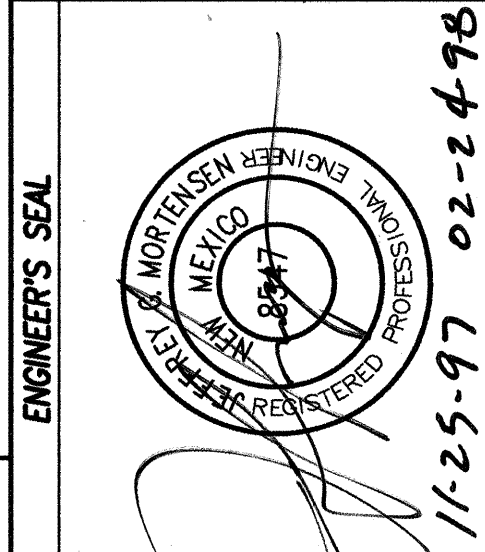
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:
LA CUEVA VILLAGE UNIT 1, PATIO HOMES
PAVING AND STORM DRAINAGE IMPROVEMENTS
CARMEL AVE STA 34+90.05 TO STA 37+60.32
OSO RICO RD NE STA 10+00 TO STA 15+04.02

Design Review Committee	City Engineer Approval
DESIGN REVIEW COMMITTEE	

City Project No. 572984
Zone Map No. C-19
Sheet 13 of 24

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		G.M.		BY		REMARKS	
CONTRACTOR	Barling Const. Co.	DATE	2/3/98	DATE	10/94	NO.	940951	DATE	08/1997	DATE	08/1997	DATE	11/1997
INSPECTOR	J.M.A.	DATE	05/98	DATE	05/98	NO.		DATE		DATE		DATE	
FIELD ENGINEER	M.D.G.	DATE	09/98	DATE	09/98	NO.		DATE		DATE		DATE	
VERIFICATION BY	J.M.A.	DATE	09/98	DATE	09/98	NO.		DATE		DATE		DATE	
CONTRACTED BY	J.M.A.	DATE	09/98	DATE	09/98	NO.		DATE		DATE		DATE	
RECORDED BY		DATE		DATE		NO.		DATE		DATE		DATE	
NO.		DATE		DATE		NO.		DATE		DATE		DATE	



G.M.		BY		REMARKS	
02/98	Full Width Paving Improvements	02/98	AS-BUILT AND CERTIFY		
NO.		DATE		DESIGN	
Designed By	G.M./G.R.B.	Date	08/1997	Checked By	J.G.M.
Drawn By	J.Y.R.	Date	08/1997		
		Date	11/1997		

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:
LA CUEVA VILLAGE UNIT 1, PATIO HOMES
PAVING AND STORM DRAINAGE IMPROVEMENTS
CARMEL AVE STA 34+90.05 TO STA 37+60.32
OSO RICO RD NE STA 10+00 TO STA 15+04.02

Design Review Committee	City Engineer Approval
DESIGN REVIEW COMMITTEE	

City Project No. 572984
Zone Map No. C-19
Sheet 13 of 24



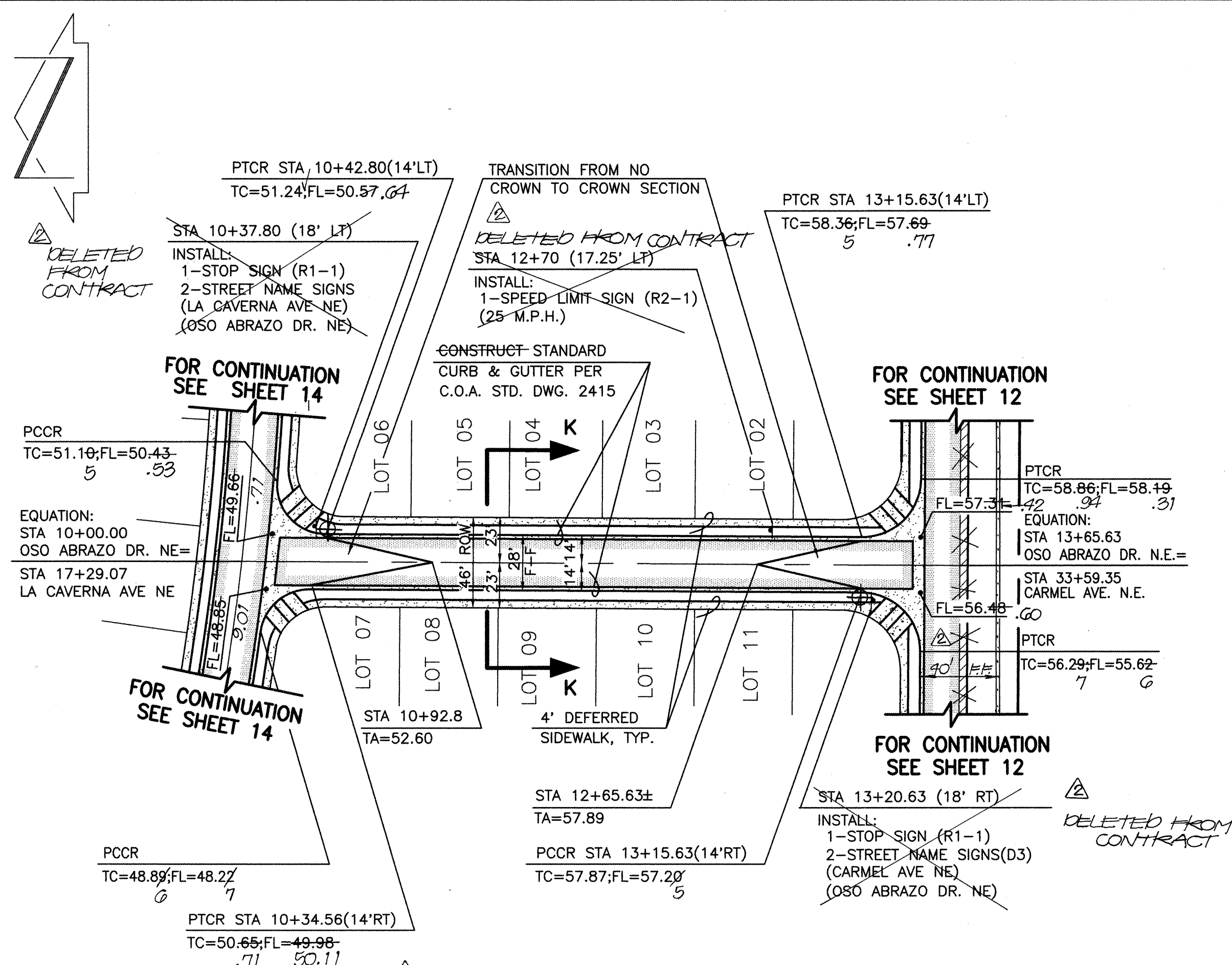
S.W. RETURN			S.E. RETURN		
12	TC	FL	13	TC	FL
1	41.88	41.21	1	43.59	42.92
2	—	41.64	2	—	42.78
3	42.57	41.90	3	43.63	42.96

S.W. RETURN			S.E. RETURN		
14	TC	FL	15	TC	FL
1	49.35	48.68	1	51.01	50.34
2	—	49.13	2	—	50.24
3	50.25	49.58	3	51.11	50.44

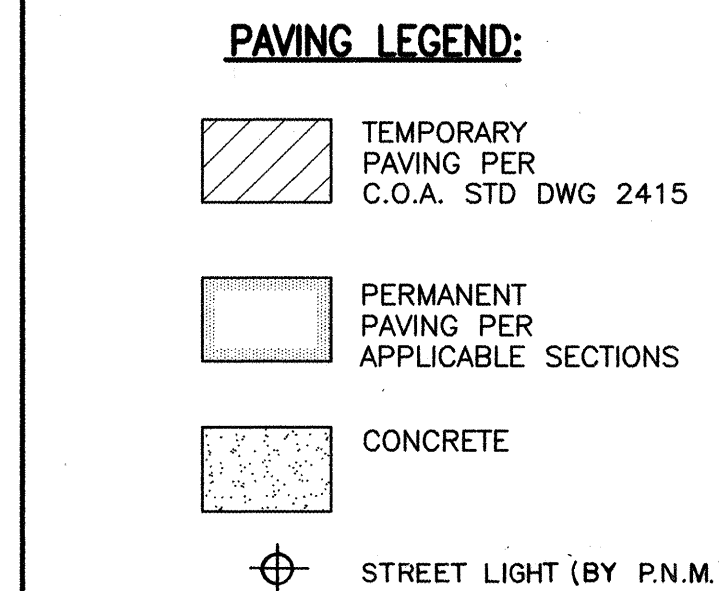
Fast Design Update

EX	G.M.
----	------

EX	G.M.
----	------



SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'



JEFF MORTENSEN & ASSOCIATES, INC.
☐ 6010-B MIDWAY PARK BLVD. N.E.
☐ ALBUQUERQUE ☐ NEW MEXICO 87109
☐ ENGINEERS ☐ SURVEYORS (505) 345-4251

TITLE: LA CUEVA VILLAGE, UNIT 1, PATIO HOMES
PAVING AND STORM DRAINAGE IMPROVEMENTS
OSO ESCONDIDO DRIVE N.E. STA 10+00 TO STA 14+18.85
OSO ABRAZO DRIVE N.E. STA 10+00.00 TO STA 13+65.63

City Engineer Approval _____

970682 ~~970011~~

DATE		AS-BUILT AND CERTIFY		ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
DATE		BY		NO.		FIELD NOTES		CITY OF ALBUQUERQUE BENCH MARK "HEAVEN", A STANDARD		CONTRACTOR <i>Sparkling Carpet Co.</i>	
DATE		BY		NO.		DATE		INSURANCE BY		DATE	
08/98				940951	J.M.A.	10/94	U.S.C. AND G.S. BRASS TABLET STAMPED "HEAVEN 1969", SET	INSURANCE BY	08/98		
							IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND	INSURANCE BY	05/98		
							LOCATED AT THE ENTRANCE TO THE "GATE OF HEAVEN"	INSURANCE BY	04/98		
							CEMETERY 0.15 MILES WEST OF THE INTERSECTION OF PASEO	INSURANCE BY	05/98		
							DEL NORTE N.E. AND WYOMING BOULEVARD N.E. STATION	INSURANCE BY			
							IS ON THE SOUTH SIDE OF PASEO DEL NORTE.	INSURANCE BY			
							ELEVATION = 5378.78 FEET (M.S.L.D.)	INSURANCE BY			

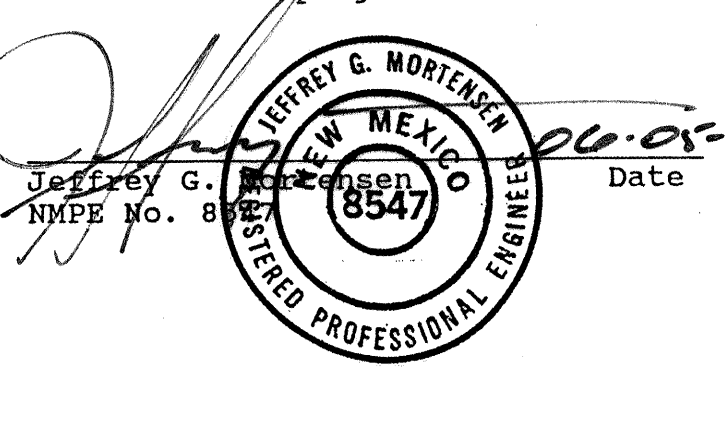
11-7 5-97



*** AS-BUILT JOINT RESTRAINT CALCULATIONS
FOR: SIZE 10" PVC PIPE, 4.5' DEPTH OF BURY,
TRENCH TYPE 5, 88 PSI, S.M. SOIL, Lr = 36 (MIN.);
FACTOR OF SAFETY = 1.58**

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.



SANITARY SEWER SERVICE SCHEDULE				
LOT	STATION	SIZE	INVERT@ P.L.	
1	34+12.35	4"	54.36-00	
12	32+40.66	4"	49.20-	
13	31+53.69	4"	46.76-27	

STA 34+03.35 (10'LT)
INSTALL:
1-10" RESTRAINED GATE VALVE (Lr=72")
1- TYPE 'B' VALVE BOX

STA 31+45.96 (10'LT)
INSTALL:
1-10" RESTRAINED GATE VALVE (Lr=72")
1- TYPE 'B' VALVE BOX

STA 32+00.26 (10'LT)
INSTALL: (FUTURE FIRE PROTECTION LINE)
1-10" X10" X10" RESTRAINED TEE (Lr RUN=15')
1-10" RESTRAINED GATE VALVE (Lr=72")
1- TYPE 'B' VALVE BOX
40 LF 10" PVC (C-900)
1-10" CAP AND CONCRETE BLOCKING (30'RT)

INSTALL 4" SAS SERVICE
PER C.O.A. STD. DWG. 2125, TYP.

STA 31+75.26
INSTALL: 1-6" SAS SERVICE
PER C.O.A. STD. DWG. 2125
INV. @ R (30' RT) = 5446.15'

STA 31+53.26 (22.5'RT)
INSTALL: 1-1" WATER SERVICE
PER C.O.A. STD. DWG. 2361 (CASE 4)

STA 33+40.26
INSTALL: 1-6" SAS SERVICE
PER C.O.A. STD. DWG. 2125
INV. @ R (30' RT) = 5451.00'

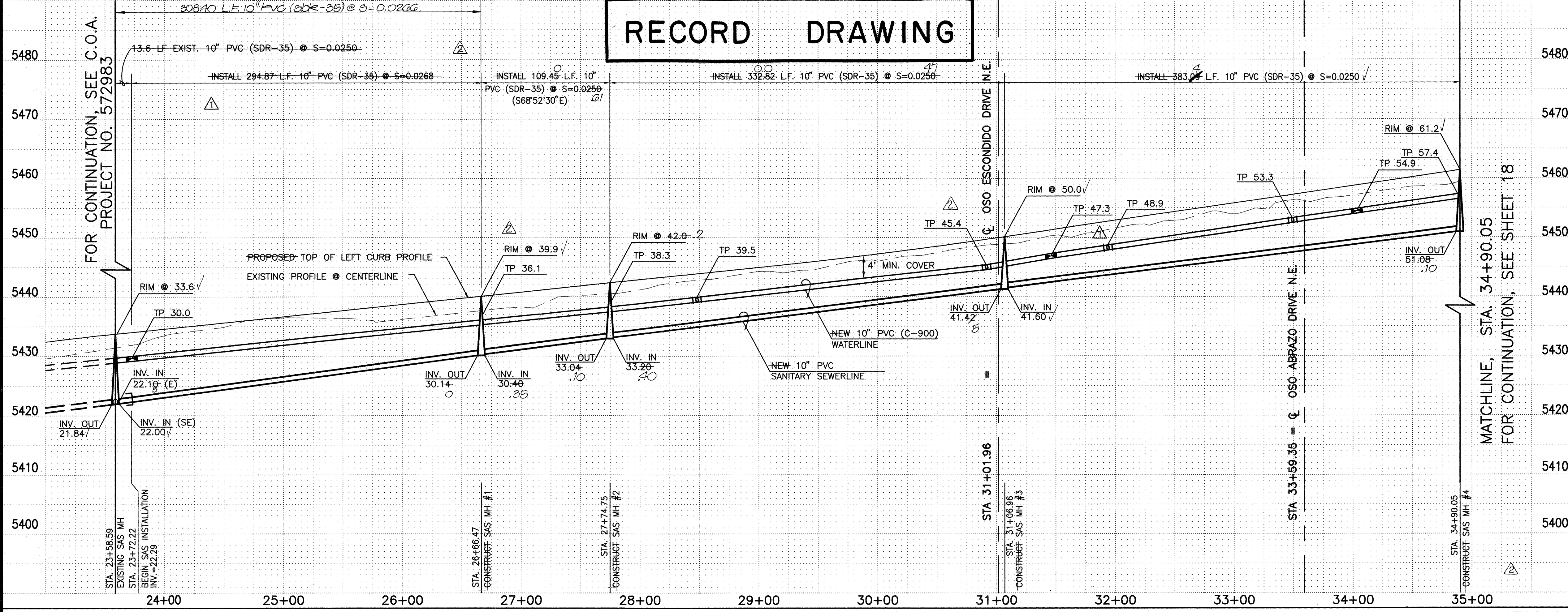
STA 33+49.35 (10'LT) CARMEL AVE. N.E.=
STA 13+65.63 (10'LT) OSO ESDONDDO DR. N.E.
INSTALL:
1-10" X10" X6" RESTRAINED TEE (Lr RUN=6')

STA 31+06.96
CONSTRUCT SAS MH#3

STA 34+90.05
CONSTRUCT SAS MH#4
EQUATION:
STA 33+59.35 CARMEL AVE. N.E.=
STA 13+65.63 OSO ABRASO DR. N.E.

SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'

RECORD DRAWING



WATERLINE CONSTRUCTION NOTES:

- ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
- FOR ALL LINES 12" AND SMALLER, WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.
- FOR ALL LINES 14" AND LARGER, WATER MAIN SHALL BE DUCTILE IRON OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. CONCRETE CYLINDER IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF DUCTILE IRON.
- WATERLINE SHALL HAVE A MINIMUM COVER OF 4'0" (TOP OF CURB TO TOP OF PIPE). EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
- IN ACCORDANCE WITH SECTION 801 OF THE "STANDARD SPECIFICATIONS", METALLIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.
- VALVE STEM AND FIRE HYDRANT EXTENSIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE COST OF EACH EXTENSION SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
- JOINT RESTRAINT SHALL BE CONSIDERED INCIDENTAL TO WATERLINE CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
- JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE HYDRANT LEGS FROM TEE TO FIRE HYDRANT INCLUDING THE TEE AND FIRE HYDRANT.
- FOR THE PURPOSES OF THIS PROJECT, ALL RESTRAINED JOINTS AND JOINT RESTRAINT SHALL BE MECHANICALLY RESTRAINED.

SANITARY SEWER CONSTRUCTION NOTES:

- ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
- ALL SEWER PIPE SHALL BE PVC (SDR-35).
- SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
- ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE 'E' AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED. MANHOLE STEPS SHALL BE DELETED FROM THIS CONTRACT.
- SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS (EMD) AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125. EMD SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE INSTALLED AS PRESURE PIPE BETWEEN MANHOLES IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.



JEFF MORTENSEN & ASSOCIATES, INC.
6809 N. MESA BLVD. N.E.
ALBUQUERQUE, N.M. 87109
ENGINEERS SURVEYORS (505) 345-4250

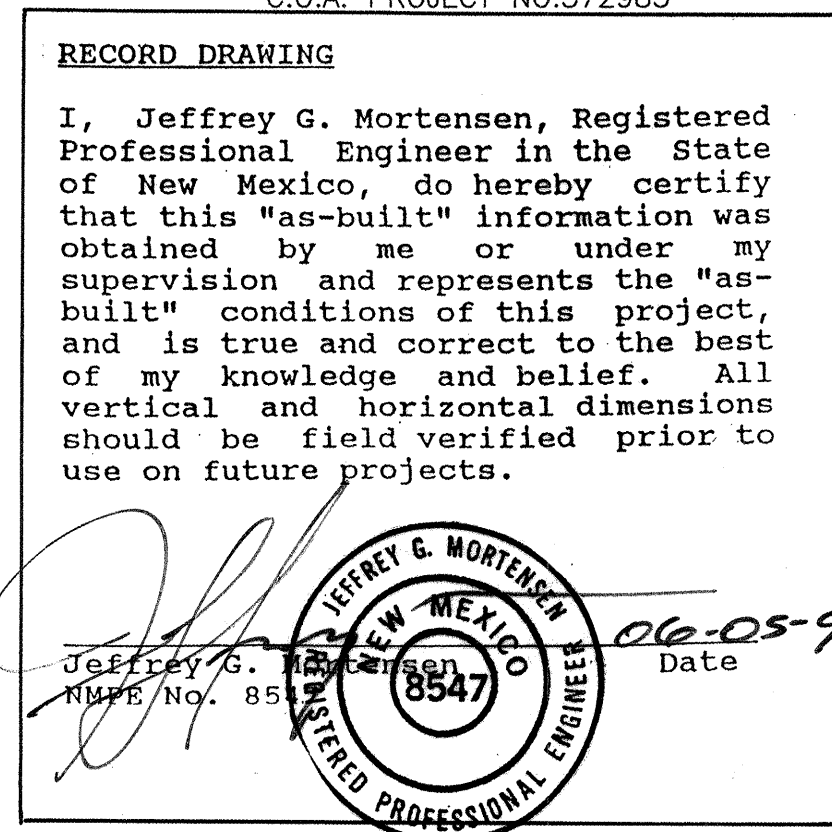
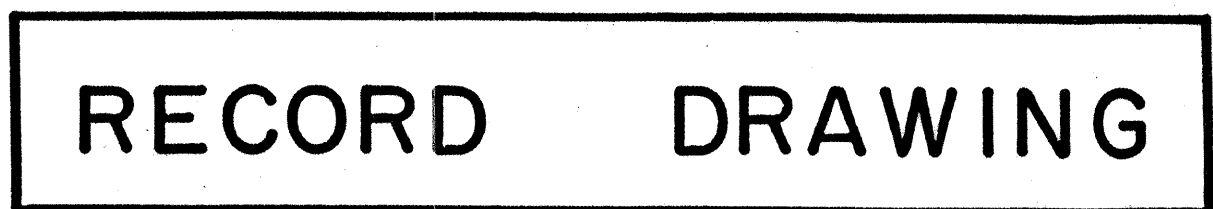
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: LA CUEVA VILLAGE, UNIT 1, PATIO HOMES
WATER AND SANITARY SEWER LINE EXTENSIONS
CARMEL AVE STA 23+72.22 TO STA 34+90.05



City Engineer Approval

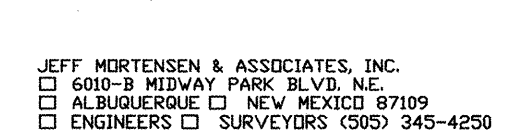
NO.	DATE	REVISIONS
1	02/98	ADD WATER AND SAS SERVICES, SHOW FULL WIDTH PAVING.
2	03/98	AS-BUILT AND CERTIFY



SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'

- SANITARY SEWER CONSTRUCTION NOTES:

1. ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
2. ALL SEWER PIPE SHALL BE PVC (SDR-35).
3. SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
4. ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE "C" AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED. MANHOLE STEPS SHALL BE DELETED FROM THIS CONTRACT.
5. SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS (EMD) AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125. EMD SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
8. WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE INSTALLED AS PRESSURE PIPE BETWEEN MANHOLES IF 18 INCHES OF



DESIGN REVIEW COMMITTEE
APPROVED
MAR 25 1998
DESIGN
REVIEW COMMITTEE

City Engineer Approval	
------------------------	--

date

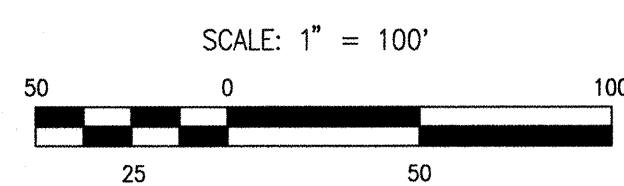
Mo./Da.

Y/Yes.

No. _____

Day/Yr.

City Project No.	572984	Zone Map No.	C-19	Sheet	18	Of	24
------------------	--------	--------------	------	-------	----	----	----



<u>SANITARY SEWER SERVICE SCHEDULE</u>			
<u>LOT</u>	<u>STATION</u>	<u>SIZE</u>	<u>INVERT</u> [®] <u>P.L.</u>
25	11+78.40	4"	33.90
26	12+71.22	4"	36.70
27	13+38.01	4"	39.40
28	13+88.01	4"	41.40
31	13+86.01	4"	41.30
32	13+36.01	4"	39.30
33	12+87.10	4"	37.30
34	12+47.80	4"	35.80
35	13+98.28	4"	34.30
36	11+53.93	4"	33.60
37	11+13.42	4"	33.40
38	AS SHOWN	4"	33.30
39	AS SHOWN	4"	33.20
40	SEE SHEET 18	4"	33.10
41	AS SHOWN	4"	33.00
42	10+12.39	4"	32.90

RECORD DRAWING

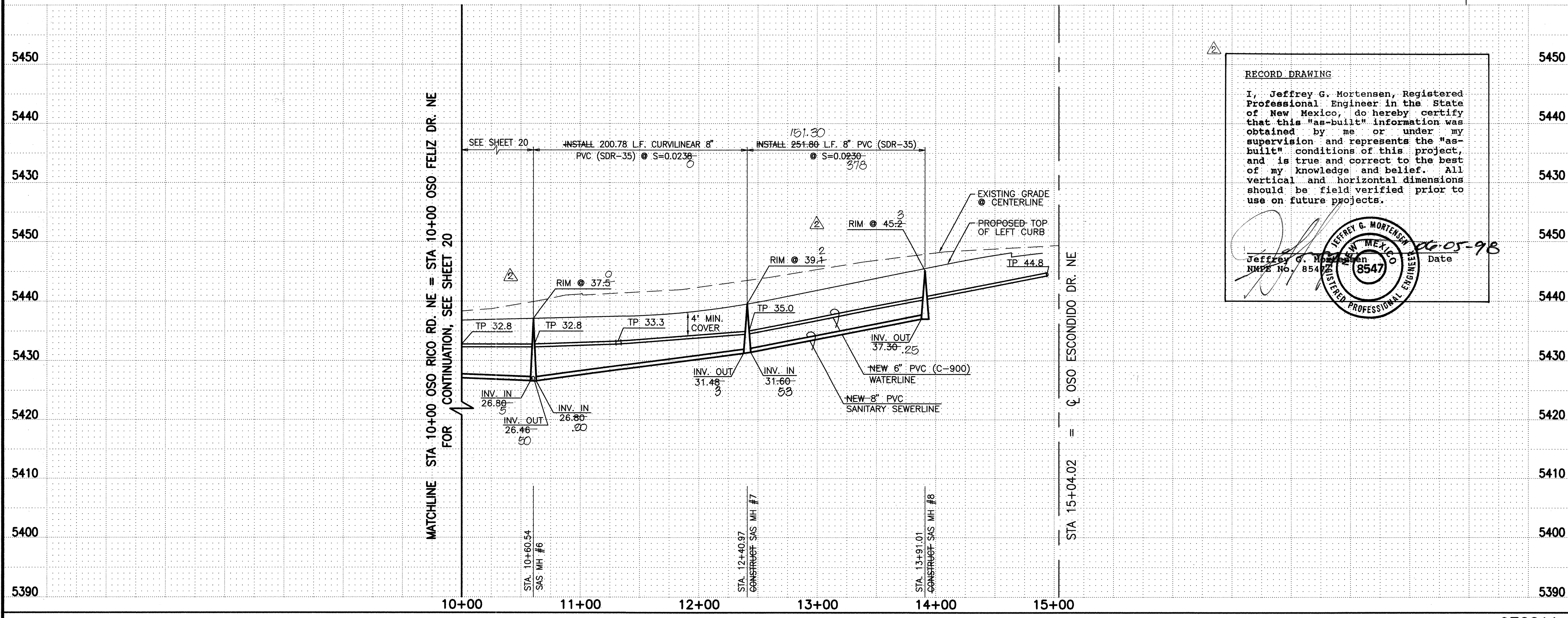
CURVILINEAR SANITARY
SEWER DATA

MH #6 TO MH #7
 $\Delta = 41^{\circ}49'59''$
 $R = 275.00'$
 $L = 200.78'$
 $LC = 196.35'$
 CH. BRG = $S59^{\circ}26'00''E$
 $\Delta = 20'$ (PER PIPE)
 $\delta = 4'-10'$ (PER PIPE)
 OFFSET = $0.73'$ (PER PIPE)

EQUATION:
STA 15+04.02 OSO RICO RD N.E. =
STA 12+48.85
OSO ESCONDIDO DR. N.E.

SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'

OSO RICO ROAD N.E.



RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

[Signature]

JEFFREY G. MORTENSEN
NEW MEXICO
8547
REGISTERED PROFESSIONAL ENGINEER

Jeffrey G. Mortensen
NMPE No. 8547

CG-05-98 Date

- WATERLINE CONSTRUCTION NOTES:
1. ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
 2. FOR ALL LINES 12" AND SMALLER, WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.
 3. FOR ALL LINES 14" AND LARGER, WATER MAIN SHALL BE DUCTILE IRON OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. CONCRETE CYLINDER IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF DUCTILE IRON.
 4. WATERLINE SHALL HAVE A MINIMUM COVER OF 4'0" (TOP OF CURB TO TOP OF PIPE). EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
 5. ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
 6. IN ACCORDANCE WITH SECTION 801 OF THE "STANDARD SPECIFICATIONS", METALIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.
 7. VALVE STEM AND FIRE HYDRANT EXTENSIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE COST OF EACH EXTENSION SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
 8. JOINT RESTRAINT SHALL BE CONSIDERED INCIDENTAL TO WATERLINE CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
 9. JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE HYDRANT LEGS FROM TEE TO FIRE HYDRANT INCLUDING THE TEE AND FIRE HYDRANT.
 10. FOR THE PURPOSES OF THIS PROJECT, ALL RESTRAINED JOINTS AND JOINT RESTRAINT SHALL BE MECHANICALLY RESTRAINED.

SANITARY SEWER CONSTRUCTION NOTES:

1. ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
2. ALL SEWER PIPE SHALL BE PVC (SDR-35).
3. SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
4. ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE 'E' AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED. MANHOLE STEPS SHALL BE DELETED FROM THIS CONTRACT.
5. SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS (EMD) AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125. EMD SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
8. WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE INSTALLED AS PRESSURE PIPE BETWEEN MANHOLES IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.

AS-BUILT AND CERTIFY		ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
				FIELD NOTES					
DATE	CERTIFY	BY		NO.	DATE			CONTRACTOR	
				940951	10/94	CITY OF ALBUQUERQUE BENCH MARK "HEAVEN", A STANDARD USC AND GS BRASS TABLET STAMPED "HEAVEN 1987", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND LOCATED AT THE ENTRANCE TO THE "GATE OF HEAVEN" CEMETERY 0.15 MILES WEST OF THE INTERSECTION OF PASEO DEL NORTE N.E. AND WYOMING BOULEVARD N.E. STATION IS ON THE SOUTH SIDE OF PASEO DEL NORTE.		WORKED BY	J.M.A.
								INSPECTED BY	M.B.B.
								VERIFIED BY	J.M.A.
								DRAWINGS	04/93
								CORRECTED BY	J.M.A.
								MICRO-FILM INFORMATION	
DESIGNED BY	G.R.B.	Date	08/1997					RECORDED BY	
DRAWN BY	J.Y.R.	Date	08/1997					NO.	
CHECKED BY	J.C.M.	Date	11/1997						



JEFF MORTENSEN & ASSOCIATES, INC.
☐ 6010-B MIDWAY PARK BLVD. N.E.
☐ ALBUQUERQUE ☐ NEW MEXICO 87109
☐ ENGINEERS ☐ SURVEYORS (505) 345-4250

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: LA CUEVA VILLAGE, UNIT 1, PATIO HOMES
WATER AND SANITARY SEWER LINE EXTENSIONS
OSO RICO RD. N.E. STA. 10+00 TO STA 14+94.02

Design Review Committee

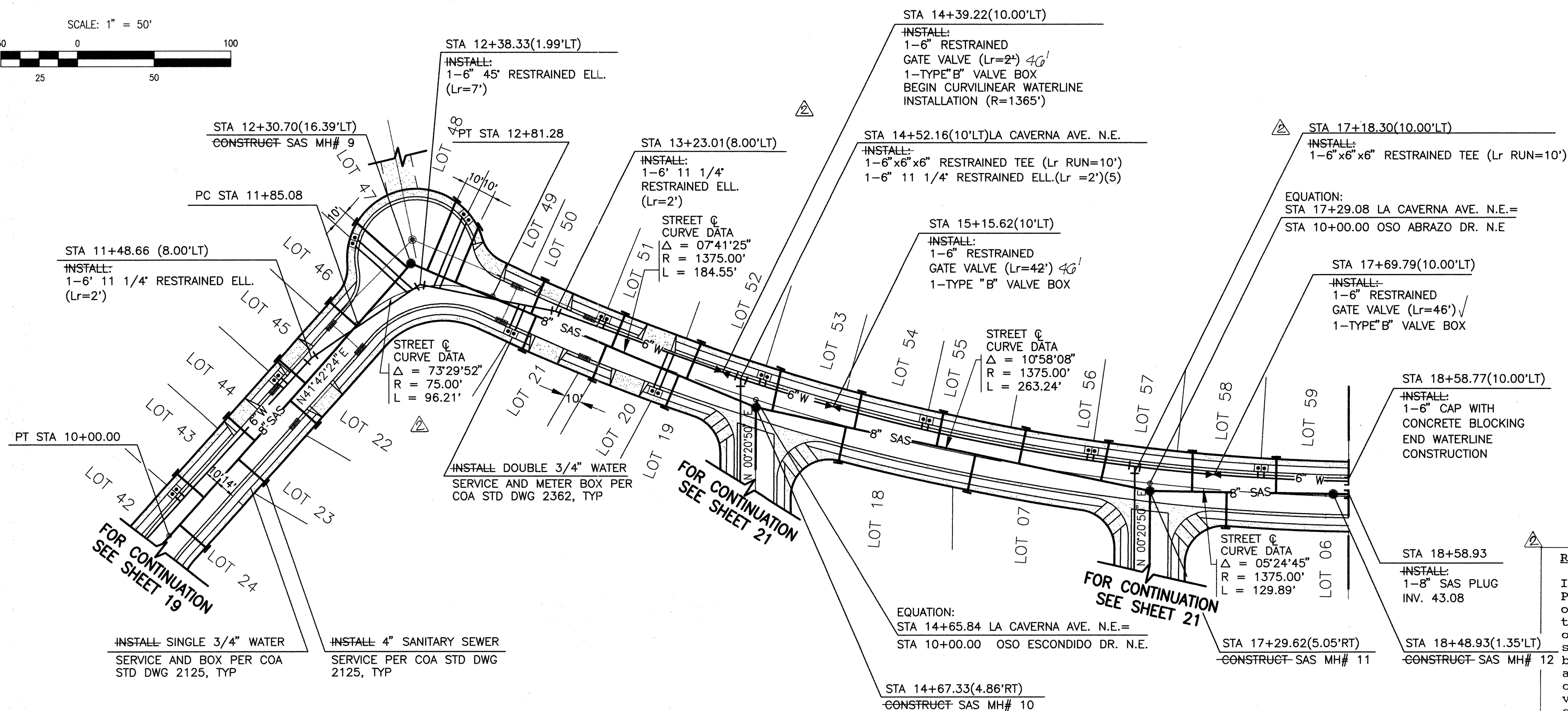
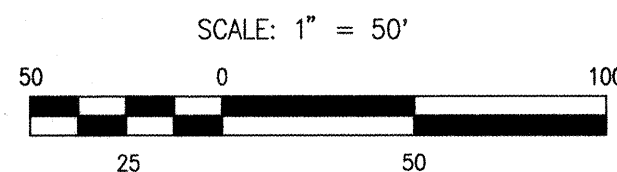
City Engineer Approval

APPROVED

DEC - 9 1997

DESIGN
REVIEW COMMITTEE

Last Design Update



OSO FELIZ DR NE/LA CAVERNA AVENUE N.E.

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

<u>SANITARY SEWER SERVICE SCHEDULE</u>			<u>INVERT @</u>
<u>LOT</u>	<u>STATION</u>	<u>SIZE</u>	<u>P.I.</u>
6	17+80.68	4"	47.30
7	16+13.25	4"	42.50
18	15+28.29	4"	40.00 <i>32.90</i>
19	14+11.93	4"	36.60
20	13+61.83	4"	35.00 <i>33.91</i>
21	13+12.06	4"	33.20 <i>32.63</i>
22	11+18.66	4"	32.20 <i>.11</i>
23	10+67.62	4"	32.50 <i>.04</i>
24	10+10.00	4"	32.80
43	10+33.69	4"	32.60 <i>31.41</i>
44	10+83.69	4"	32.40 <i>31.00</i>
45	11+33.66	4"	32.00 <i>30.44</i>
46	11+83.66	4"	31.60 <i>30.00</i>
47	As Shown	4"	31.20 <i>.12</i>
48	As Shown	4"	30.90 <i>.17</i>
49	As Shown	4"	31.10 <i>30.20</i>
50	13+08.51	4"	33.10 <i>32.51</i>
51	13+66.16	4"	35.10 <i>34.10</i>
52	14+19.93	4"	36.90
53	14+75.72	4"	38.50 <i>.48</i>
54	15+31.57	4"	40.40 <i>.15</i>
55	15+87.39	4"	41.70 <i>.50</i>
56	16+43.21	4"	43.40 <i>.29</i>
57	16+99.00	4"	45.00 <i>43.77</i>
58	17+54.82	4"	46.60 <i>.34</i>
59	18+10.66	4"	48.20 <i>.00</i>

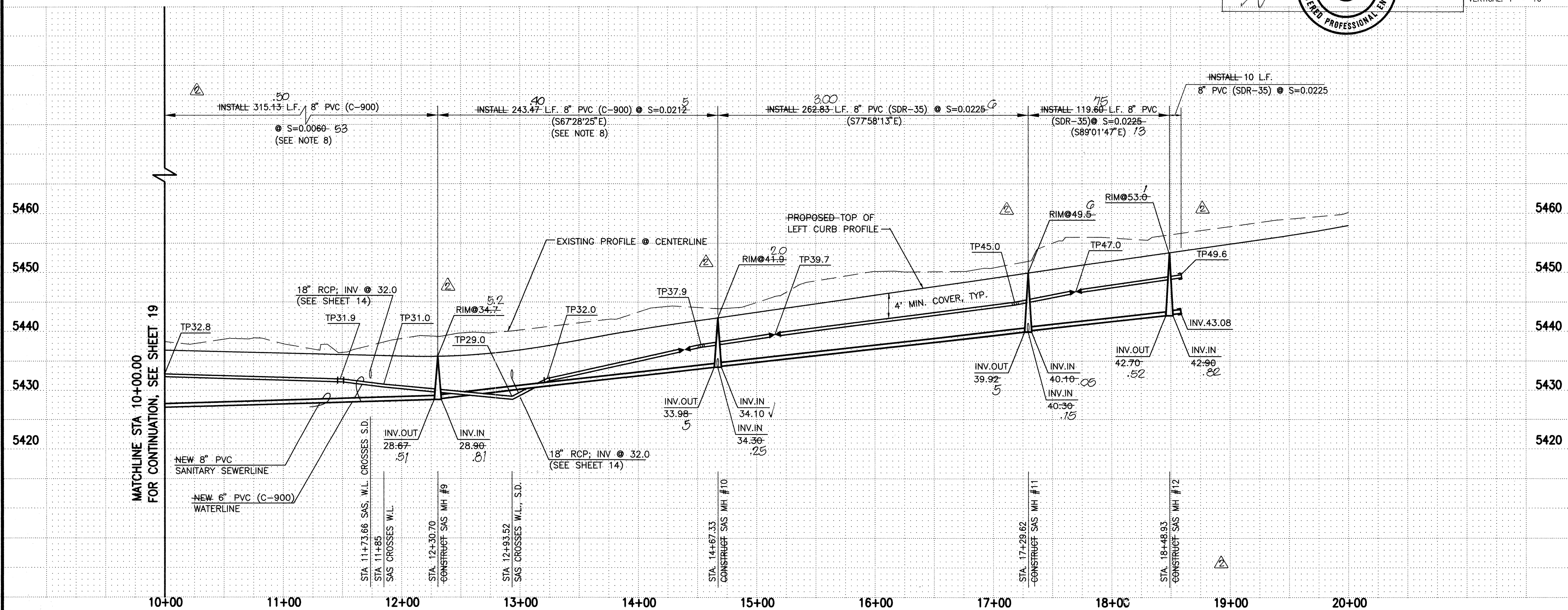
WATER SERVICE SCHEDULE			
<u>LOT</u>	<u>STATION</u>	<u>SIZE</u>	<u>TYPE</u>
19/20	14+02.11	3/4"	DOUBLE
21/22	13+02.23	3/4"	DOUBLE
23	10+59.62	3/4"	SINGLE
42/43	10+23.66	3/4"	DOUBLE
44/45	11+23.66	3/4"	DOUBLE
46/47	AS SHOWN	3/4"	DOUBLE
48/49	AS SHOWN	3/4"	DOUBLE
50/51	13+53.96	3/4"	DOUBLE
52/53	14+65.59	3/4"	DOUBLE
54/55	15+77.22	3/4"	DOUBLE
56/57	16+88.86	3/4"	DOUBLE
58/59	18+00.56	3/4"	DOUBLE

Jeffrey G. Hansen
NMPE No. 8547

NEW MEXICO
8547
ENGINEER

06-05 Date

98 SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'



WATERLINE CONSTRUCTION NOTES:

1. ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
2. FOR ALL LINES 12" AND SMALLER, WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.
3. FOR ALL LINES 14" AND LARGER, WATER MAIN SHALL BE DUCTILE IRON OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. CONCRETE CYLINDER IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF DUCTILE IRON.
4. WATERLINE SHALL HAVE A MINIMUM COVER OF 4'-0" (TOP OF CURB TO TOP OF PIPE). EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
5. ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
6. IN ACCORDANCE WITH SECTION 801 OF THE "STANDARD SPECIFICATIONS", METALIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.
7. VALVE STEM AND FIRE HYDRANT EXTENSIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE COST OF EACH EXTENSION SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
8. JOINT RESTRAINT SHALL BE CONSIDERED INCIDENTAL TO WATERLINE CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
9. JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE HYDRANT LEGS FROM TEE TO FIRE HYDRANT INCLUDING THE TEE AND FIRE HYDRANT.
10. FOR THE PURPOSES OF THIS PROJECT, ALL RESTRAINED JOINTS AND JOINT RESTRAINT SHALL BE MECHANICALLY RESTRAINED.

SANITARY SEWER CONSTRUCTION NOTES:

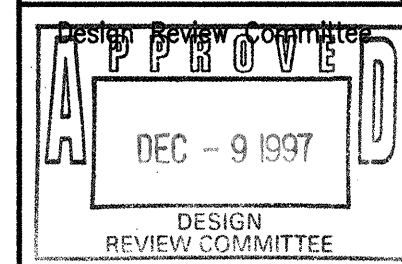
1. ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
2. ALL SEWER PIPE SHALL BE PVC (SDR-35).
3. SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
4. ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE 'E' AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED. MANHOLE STEPS SHALL BE DELETED FROM THIS CONTRACT.
5. SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS (EMD) AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125. EMD SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SHALL NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
8. WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE INSTALLED AS PRESSURE PIPE BETWEEN MANHOLES IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.



JEFF MORTENSEN & ASSOCIATES, INC.
☐ 6010-B MIDWAY PARK BLVD. N.E.
☐ ALBUQUERQUE ☐ NEW MEXICO 87109
☐ ENGINEERS ☐ SURVEYORS (505) 345-4251

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: LA CUEVA VILLAGE, UNIT 1, PATIO HOMES
WATER AND SANITARY SEWER LINE EXTENTIONS
OSO FELIZ DR NE/LA CAVERNA DR NE STA 10+00 TO 18+58.77



City Engineer Approval

Last Design Update

Mo./

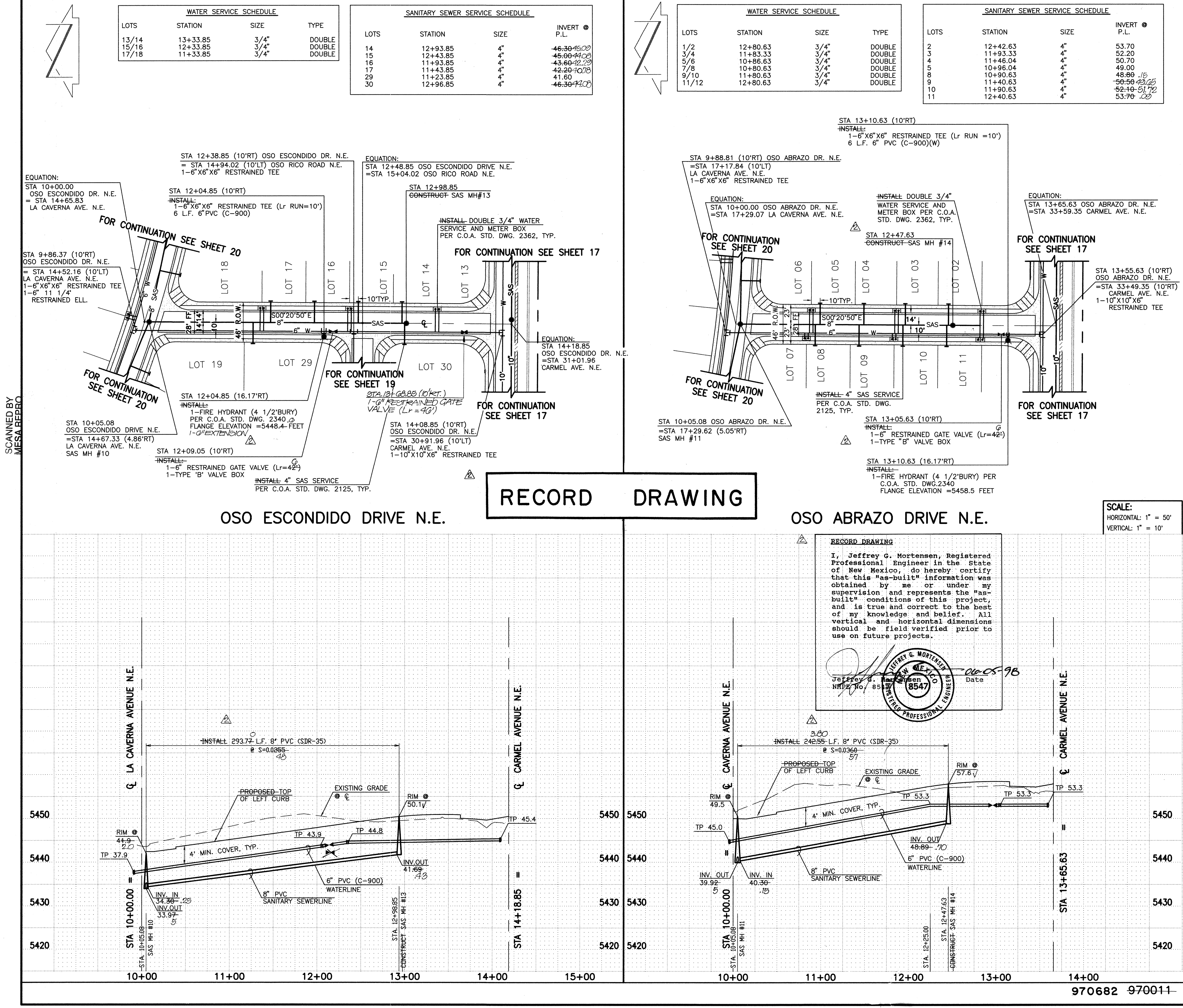
Day/Yr.

_____/Day/Y____

7.

City Project No.	Zone Map No.	Sheet	Of
572984	C-19	20	24

C:\DATA\ACAD\DWG\970011\970011.DWG Thu Nov 20 11:24:55 1997 -JVR



- WATERLINE CONSTRUCTION NOTES:
- ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
 - FOR ALL LINES 12" AND SMALLER, WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.
 - FOR ALL LINES 14" AND LARGER, WATER MAIN SHALL BE DUCTILE IRON OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. CONCRETE CYLINDER IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF DUCTILE IRON.
 - WATERLINE SHALL HAVE A MINIMUM COVER OF 4'0" (TOP OF CURB TO TOP OF PIPE). EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
 - ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
 - IN ACCORDANCE WITH SECTION 801 OF THE "STANDARD SPECIFICATIONS", METALIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.
 - VALVE STEM AND FIRE HYDRANT EXTENSIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE COST OF EACH EXTENSION SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
 - JOINT RESTRAINT SHALL BE CONSIDERED INCIDENTAL TO WATERLINE CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
 - JOINT RESTRAINT SHALL BE PROVIDED ON ALL JOINTS OF FIRE HYDRANT LEGS FROM TEE TO FIRE HYDRANT INCLUDING THE TEE AND FIRE HYDRANT.
 - FOR THE PURPOSES OF THIS PROJECT, ALL RESTRAINED JOINTS AND JOINT RESTRAINT SHALL BE MECHANICALLY RESTRAINED.

- SANITARY SEWER CONSTRUCTION NOTES:
- ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
 - ALL SEWER PIPE SHALL BE PVC (SDR-35).
 - SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
 - ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE 'E' AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED. MANHOLE STEPS SHALL BE DELETED FROM THIS CONTRACT.
 - SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS (EMD) AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125. EMD SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
 - WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE INSTALLED AS PRESSURE PIPE BETWEEN MANHOLES IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.

City of Albuquerque
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:
LA CUEVA VILLAGE, UNIT 1, PATIO HOMES
WATER AND SANITARY SEWER LINE EXTENSIONS
OSO ESCONDIDO DRIVE N.E. STA 9+86.37 TO STA 14+18.85
OSO ABRAZO DRIVE N.E. STA 9+88.81 TO STA 13+55.63

APPROVED
DEC - 9 1997
DESIGN REVIEW COMMITTEE

City Engineer Approval
City Project No. 572984
Zone Map No. C-19
Sheet 21 of 24

REVISIONS

NO.	DATE	REVISIONS

Designed By: C.R.B. Date: 09-97
Drawn By: J.Y.R. Date: 09-97
Checked By: J.G.M. Date: 11-97

AS BUILT INFORMATION			
CONTRACTOR	Jeffrey G. Mortensen Const. Co.	DATE	03/98
WORK BY	J.M.A.	DATE	03/98
INSPECTED BY	M.D.B.	DATE	03/98
APPROVED BY	J.M.A.	DATE	03/98
RECORDED BY	J.M.A.	DATE	03/98
MICRO-FILM INFORMATION			
RECORDED BY		DATE	
NO.			

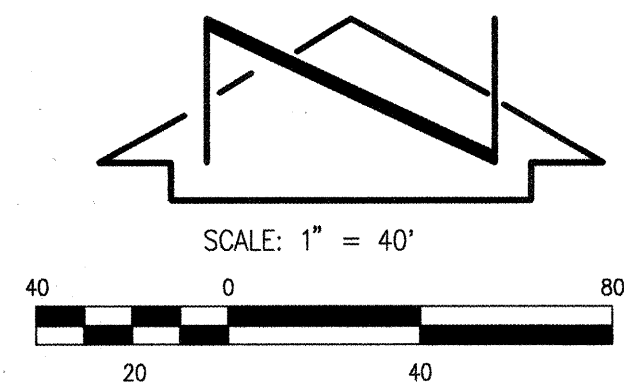
BENCH MARKS			
CITY OF ALBUQUERQUE BENCH MARK "HEAVEN", A STANDARD USC AND GS BRASS TABLET STAMPED "HEAVEN 1989", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND LOCATED AT THE ENTRANCE TO THE "GATE OF HEAVEN" CEMETERY 0.15 MILES WEST OF THE INTERSECTION OF PASEO DEL NORTE N.E. AND WYOMING BOULEVARD N.E. STATION IS ON THE SOUTH SIDE OF PASEO DEL NORTE.	DATE	10/94	
	BY	J.M.A.	
NO.	940951		

SURVEY INFORMATION			
FIELD NOTES			

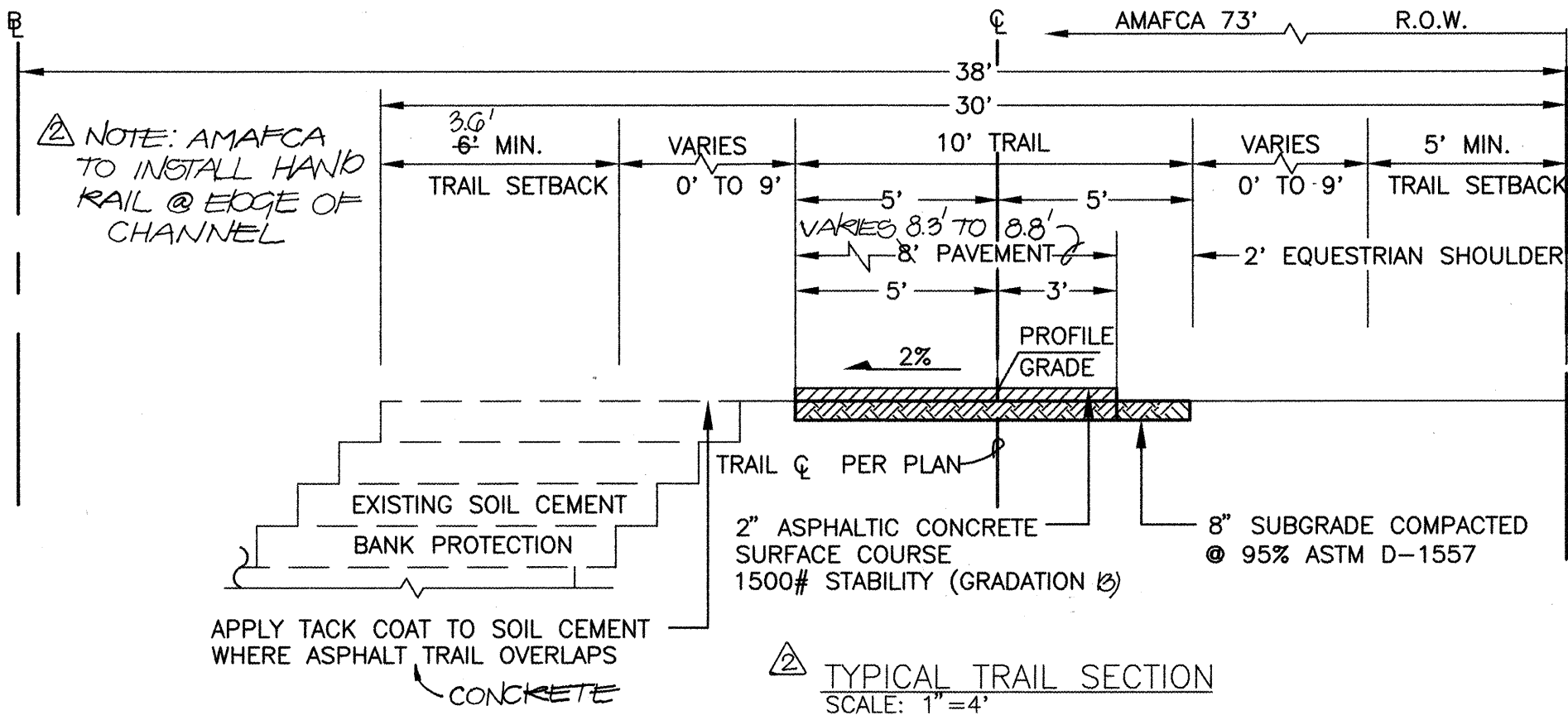
ENGINEER'S SEAL			

C:\DATA\ACAD\DWG\970011\970011PB Thu Nov 20 11:40:32 1997 -JVR

SCANNED BY
MESA REPRO

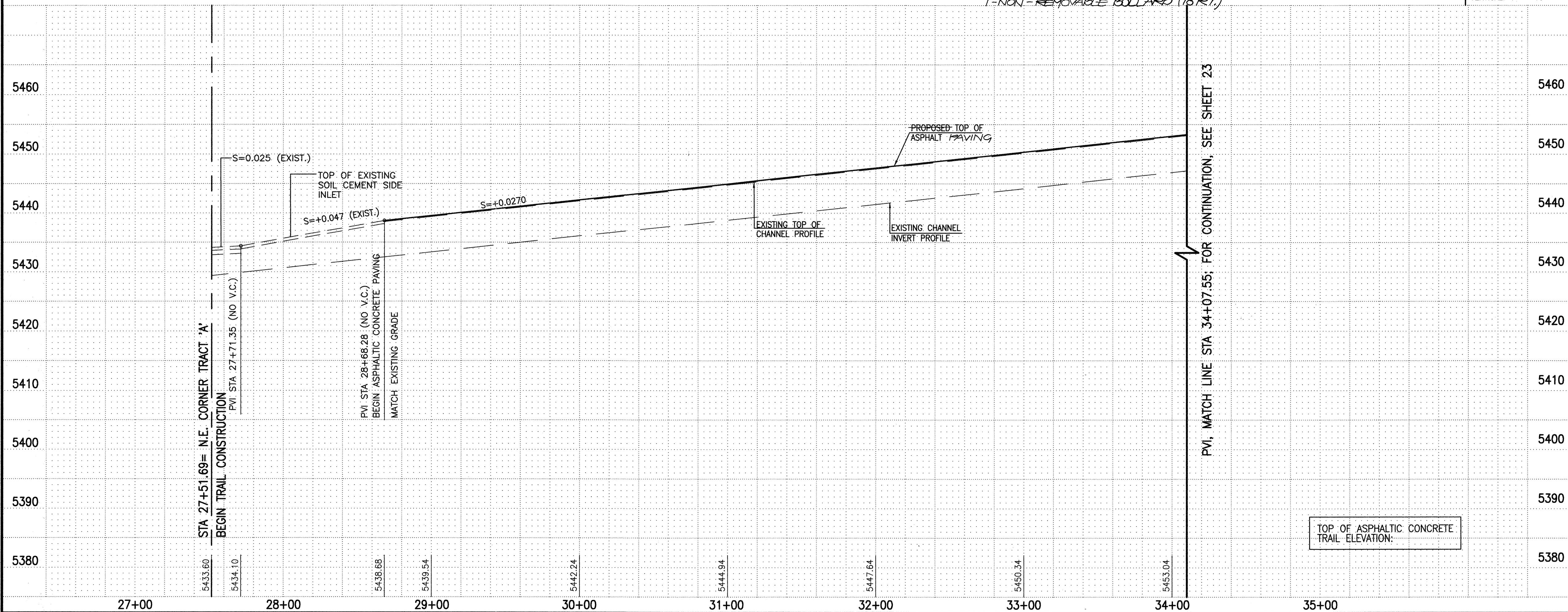


CURVE TABLE					
CURVE	RADIUS	LENGTH	CHORD	BEARING	DELTA
15	1228.00'	103.69'	103.66'	S59°20'03"E	04°50'17"
17	1200.00'	685.66'	676.37'	S73°17'02"E	32°44'17"
18	600.00'	101.75'	101.63'	S66°36'41"E	09°42'59"
19	600.00'	63.26'	63.23'	S74°29'24"E	06°02'27"
20	600.00'	103.57'	103.44'	S82°27'19"E	09°53'25"



RECORD DRAWING

CHANNEL TRAIL



SCALE:
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

- TRAIL PAVING IMPROVEMENT NOTES:
1. SLOPES AS SHOWN ON PROFILES ARE BASED ON CHANNEL BASELINE. (CITY PROJECT #572982)
 2. STATIONING SHOWN HEREON IS BASED UPON CHANNEL BASELINE. (CITY PROJECT #572982)

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

Jeffrey G. Mortensen
Professional Engineer
No. 8547
Date 08-08-98

JMA

JEFF MORTENSEN & ASSOCIATES, INC.
6600-B HIGHWAY PARK BLVD. N.E.
ALBUQUERQUE, N.M. 87109
ENGINEERS SURVEYORS (505) 345-4250

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: LA CUEVA VILLAGE, UNIT 1, PATIO HOMES
NORTH DOMINGO BACA ARROYO TRAIL IMPROVEMENTS
TRAIL PAVING PLAN AND PROFILE STA 27+51.69 TO STA 34+07.55

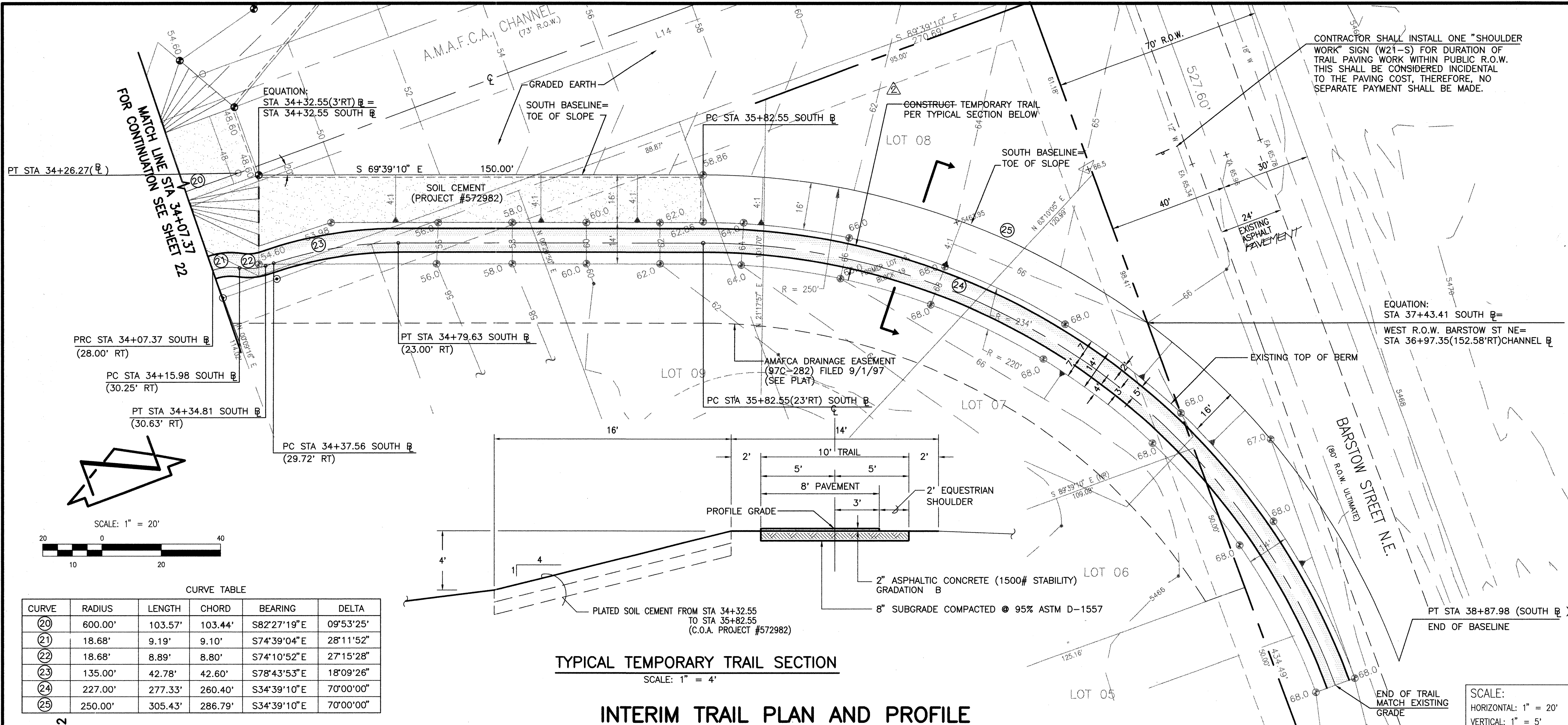
APPROVE
DEC - 9 1997
DESIGN REVIEW COMMITTEE

City Engineer Approval

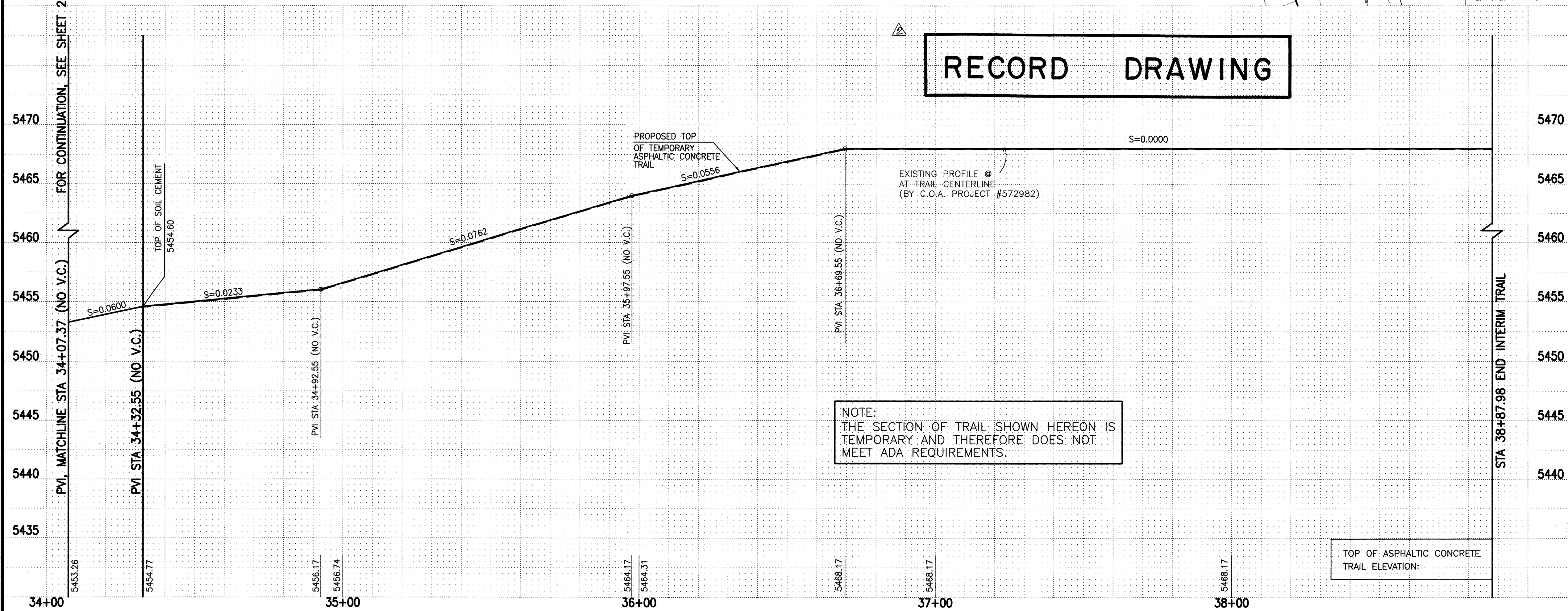
City Project No. 572984
Zone Map No. C-19
Sheet 22 of 24

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	Sparring Const. Co.	CITY OF ALBUQUERQUE	BENCH MARK	FIELD NOTES	NO.	ENGINEER'S SEAL	REVISIONS
DATE	08/98	USC AND GS BRASS TABLET STAMPED "HEAVEN 1989", SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND	DATE	BY	940951	JEFF MORTENSEN	REVISIONS
DATE	08/98	LOCATED AT THE ENTRANCE TO THE "GATE OF HEAVEN"	DATE	BY	940953	JEFF MORTENSEN	REVISIONS
DATE	09/98	CEMETERY 0.15 MILES WEST OF THE INTERSECTION OF PASO DEL NORTE N.E. AND WYOMING BOULEVARD N.E. THE STATION IS ON THE SOUTH SIDE OF PASO DEL NORTE.	DATE	BY		JEFF MORTENSEN	REVISIONS
DATE	09/98	ELEVATION = 5378.78 FEET (M.S.L.D.)	DATE	BY		JEFF MORTENSEN	REVISIONS

SCANNED BY
MESA REPRO



RECORD DRAWING



- TRAIL PAVING IMPROVEMENT NOTES:
1. SLOPES AS SHOWN ON PROFILES ARE BASED ON CHANNEL BASELINE. (CITY PROJECT #572982)
 2. STATIONING SHOWN HEREON IS BASED UPON CHANNEL BASELINE. (CITY PROJECT #572982)
 3. TEMPORARY TRAIL CONNECTION IS SHOWN HEREON. UPON FUTURE CHANNEL IMPROVEMENTS PERMANENT TRAIL WILL BE EXTENDED TO BARSTOW STREET. (N.I.C.)

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		
CONTRACTOR	Spaulding Construction Co.	CITY OF ALBUQUERQUE	BENCH MARK	DATE	BY	 11-25-97	REMARKS	
DATE	03/98	USC AND GS BRASS TABLET STAMPED "HEAVEN 1989", SET 10/94	DATE	JMA	DATE			09-97
INSPECTOR	MDS	LOCATED AT THE ENTRANCE TO THE "GATE OF HEAVEN"	DATE	JMA	DATE			09-97
FIELD VERIFICATION BY	JMA	CEMETERY 0.15 MILES WEST OF THE INTERSECTION OF PASEO DEL NORTE N.E. AND WYOMING BOULEVARD N.E. STATION IS ON THE SOUTH SIDE OF PASEO DEL NORTE.	DATE	JMA	DATE			11-97
MICRO-FILM INFORMATION		ELEVATION = 5378.78 FEET (M.S.L.D.)				DESIGNED BY		
						C.M.		
						DRAWN BY		
						D.L.M.		
						CHECKED BY		
						J.G.M.		

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

Jeffrey G. Mortensen
Professional Engineer
No. 8547
State of New Mexico

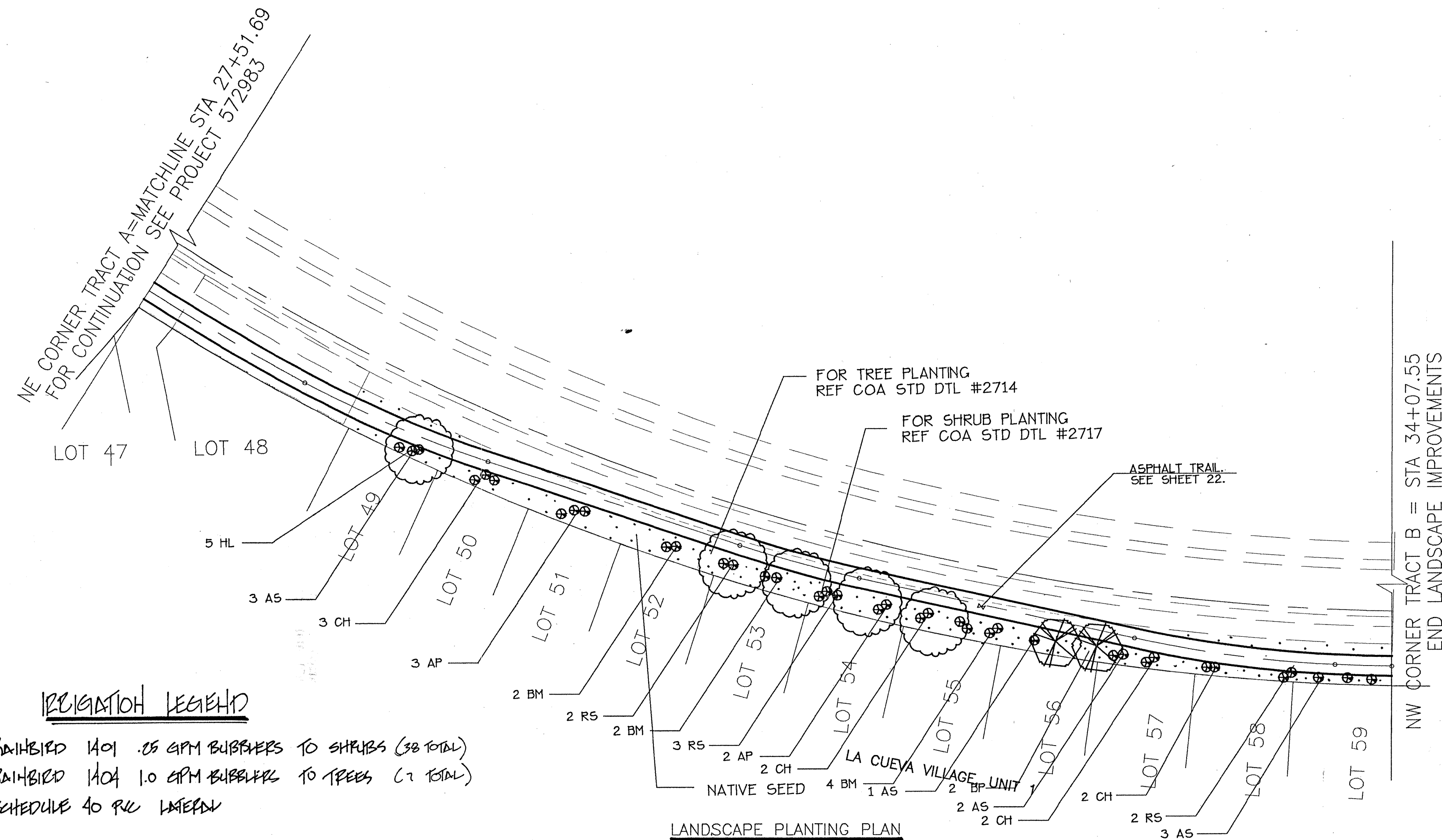
Jim JEFF MORTENSEN & ASSOCIATES, INC.
6000 N. HIGHWAY PARK BLVD. N.E.
ALBUQUERQUE, NEW MEXICO 87109
ENGINEERS SURVEYORS (505) 345-4250

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: LA CUEVA VILLAGE, UNIT 1, PATIO HOMES
NORTH DOMINGO BACA ARROYO TRAIL IMPROVEMENTS
TRAIL PAVING PLAN AND PROFILE STA 34+07.37 TO 38+87.98

APPROVED
DEC - 9 1997
DESIGN REVIEW COMMITTEE

City Project No. 970682 **Zone Map No.** C-19 **Sheet** 23 of 24

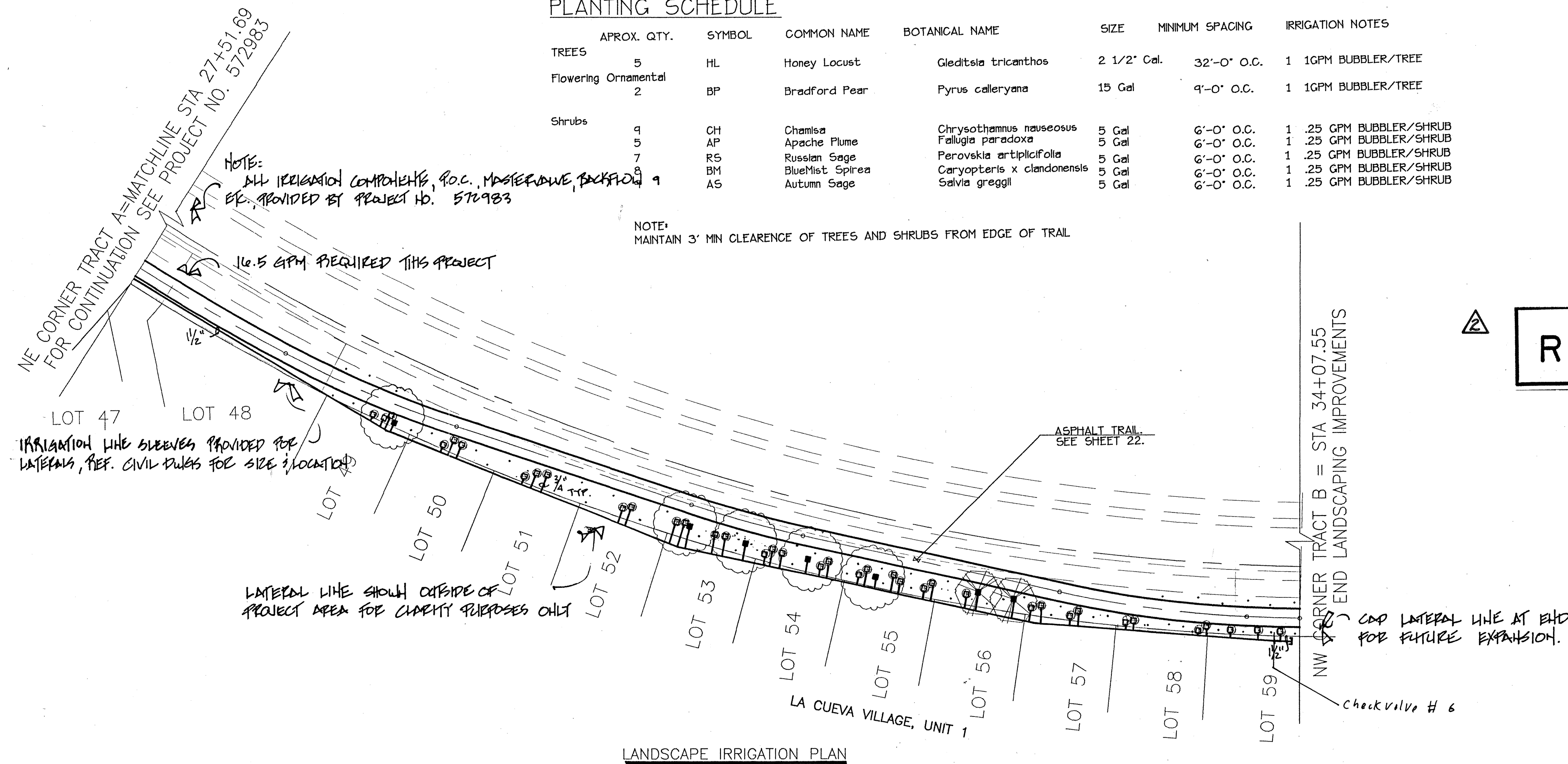
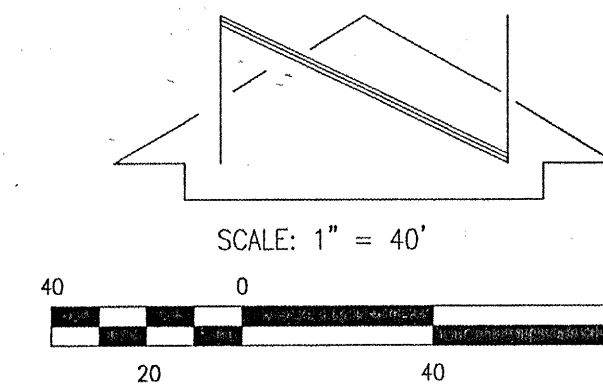
IRRIGATION LEGEND

- RAINBIRD 1401 .05 GPM BUBBLERS TO SHRUBS (38 TOTAL)
- RAINBIRD 1404 1.0 GPM BUBBLERS TO TREES (7 TOTAL)
- SCHEDULE 40 PVC LATERAL

PLANTING SCHEDULE

	APPROX. QTY.	SYMBOL	COMMON NAME	BOTANICAL NAME	SIZE	MINIMUM SPACING	IRRIGATION NOTES
TREES	5	HL	Honey Locust	Gleditsia tricanthos	2 1/2" Cal.	32'-0" O.C.	1 10GPM BUBBLER/TREE
Flowering Ornamental	2	BP	Bradford Pear	Pyrus calleryana	15 Gal	9'-0" O.C.	1 10GPM BUBBLER/TREE
Shrubs	9	CH	Chamisa	Chrysothamnus nauseosus	5 Gal	6'-0" O.C.	1 25 GPM BUBBLER/SHRUB
	5	AP	Apache Plume	Fallugia paradoxa	5 Gal	6'-0" O.C.	1 25 GPM BUBBLER/SHRUB
	7	RS	Russian Sage	Perovskia altiplicifolia	5 Gal	6'-0" O.C.	1 25 GPM BUBBLER/SHRUB
	9	BM	Blue Mist Spirea	Caryopteris x clandonensis	5 Gal	6'-0" O.C.	1 25 GPM BUBBLER/SHRUB
	9	AS	Autumn Sage	Salvia greggii	5 Gal	6'-0" O.C.	1 25 GPM BUBBLER/SHRUB

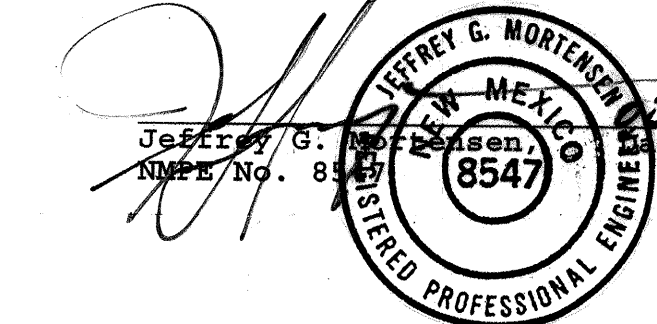
NOTE:
MAINTAIN 3' MIN CLEARANCE OF TREES AND SHRUBS FROM EDGE OF TRAIL

LANDSCAPE IRRIGATION PLAN

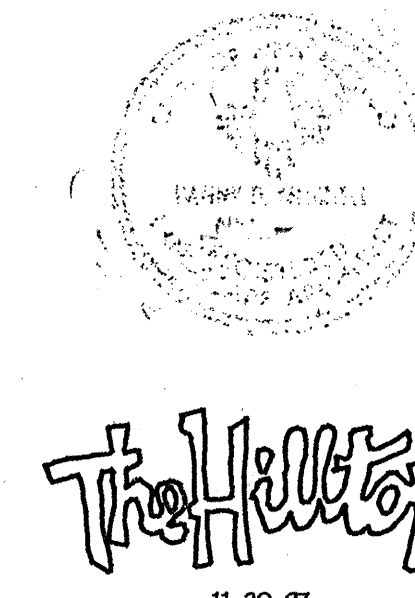
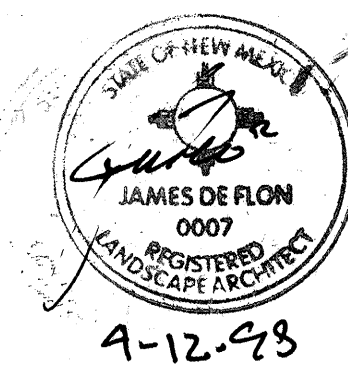
REF C.O.A. STD CITY
SPECIFICATIONS FOR CONSTRUCTION
SECTION NO.
1001 LANDSCAPE IRRIGATION
1005 PLANTINGS
1012 NATIVE SEEDING
2714 TREE PLANTING
2717 SHRUB PLANTING
2710 BUBBLERS

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by The Hilltop, as the "as-built" conditions of this project. All vertical and horizontal dimensions should be field verified prior to use on future projects.

LANDSCAPE LEGEND:

- 2- 2 1/2" CAL. SHADE TREES (HL)
HONEY LOCUST.
- 15 GAL. FLOWERING ORNAMENTAL TREES (CH)
BRADFORD PEAR
- 5 GAL. SHRUBS (L-M)
CHAMISA, APACHE PLUME,
RUSSIAN SAGE, BLUEMIST SPIREA,
AUTUMN SAGE
- NATIVE SEED

RECORD DRAWING

970682
970044

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: LA CUEVA VILLAGE UNIT 1 PATIO HOMES INFRASTRUCTURE IMPROVEMENTS TRAIL PLANTING AND IRRIGATION PLAN	
Design Review Committee	City Engineer Approval
Design Review Committee	City Engineer Approval
City Project No. 572984	Zone Map No. C-19
Sheet 24	Of 24