

SCANNED BY
MESA REPRO

CONSTRUCTION PLANS FOR *SUNRISE RANCH* *UNIT 1* ALBUQUERQUE, NEW MEXICO

APPROVAL OF RECORD DRAWINGS
CHIEF CONSTRUCTION ENGINEER
John Chang
DATE 12-3-01

INDEX TO DRAWINGS

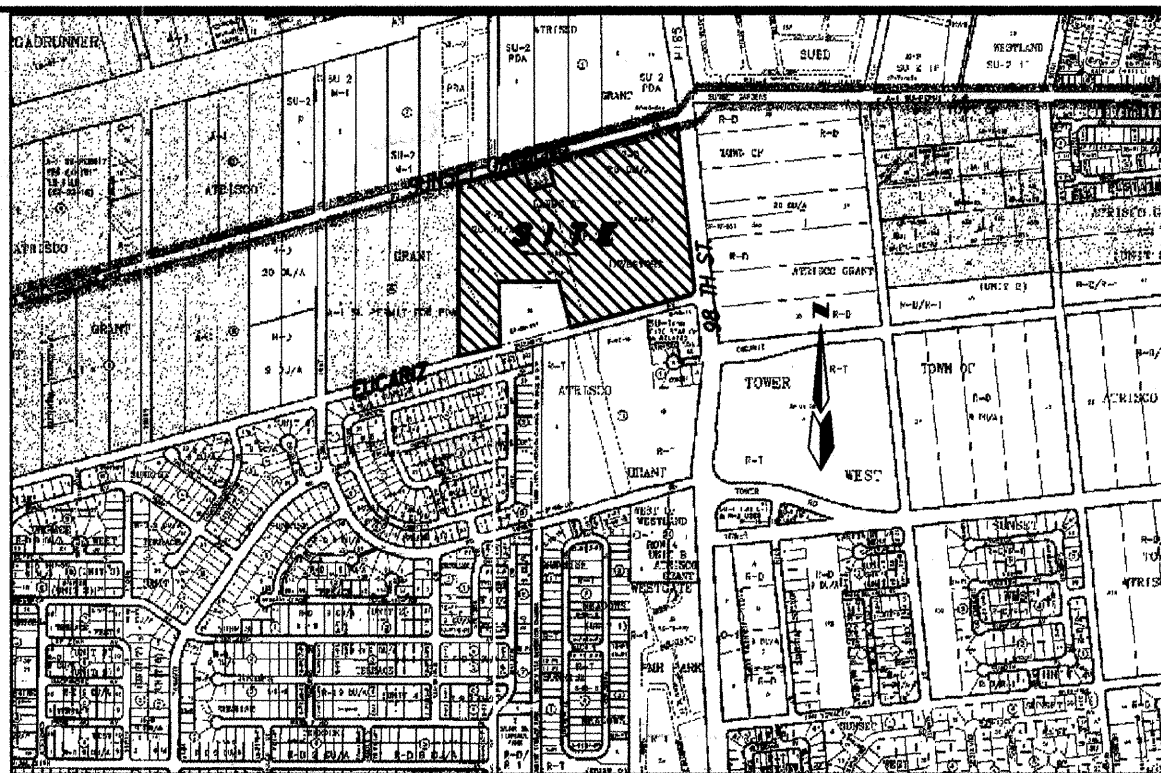
SHEET NO.	SHEET
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SURVEYOR'S CERTIFICATION

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

Timothy Aldrich
Timothy Aldrich, P.S. No. 7719

12-06-00
Date



VICINITY MAP ZONE ATLAS L-8 & L-9
SCALE: NONE

GENERAL NOTES

NOTICE TO CONTRACTORS

- CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED THROUGH UPDATE 6, WILL BE REFERRED TO HEREIN AS THE "STANDARD SPECIFICATIONS".
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) AND DETERMINE LOCATION OF EXISTING UTILITIES.
- PRIOR TO ANY 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 THE SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITHOUT DELAY.
- ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC., WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RE-SET BY THE CONTRACTOR.
- FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR IN EXISTING OR NEW LOCATION AS INDICATED BY THIS SET.
- THE 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 WORK OCCURRING WITHIN AN ARTERIAL ROADWAY REQUIRES 24 HOURS CONSTRUCTION.

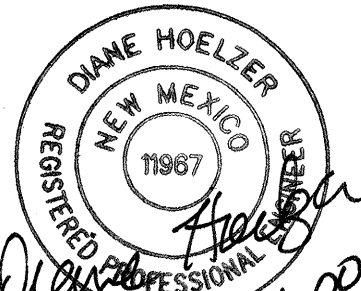
THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

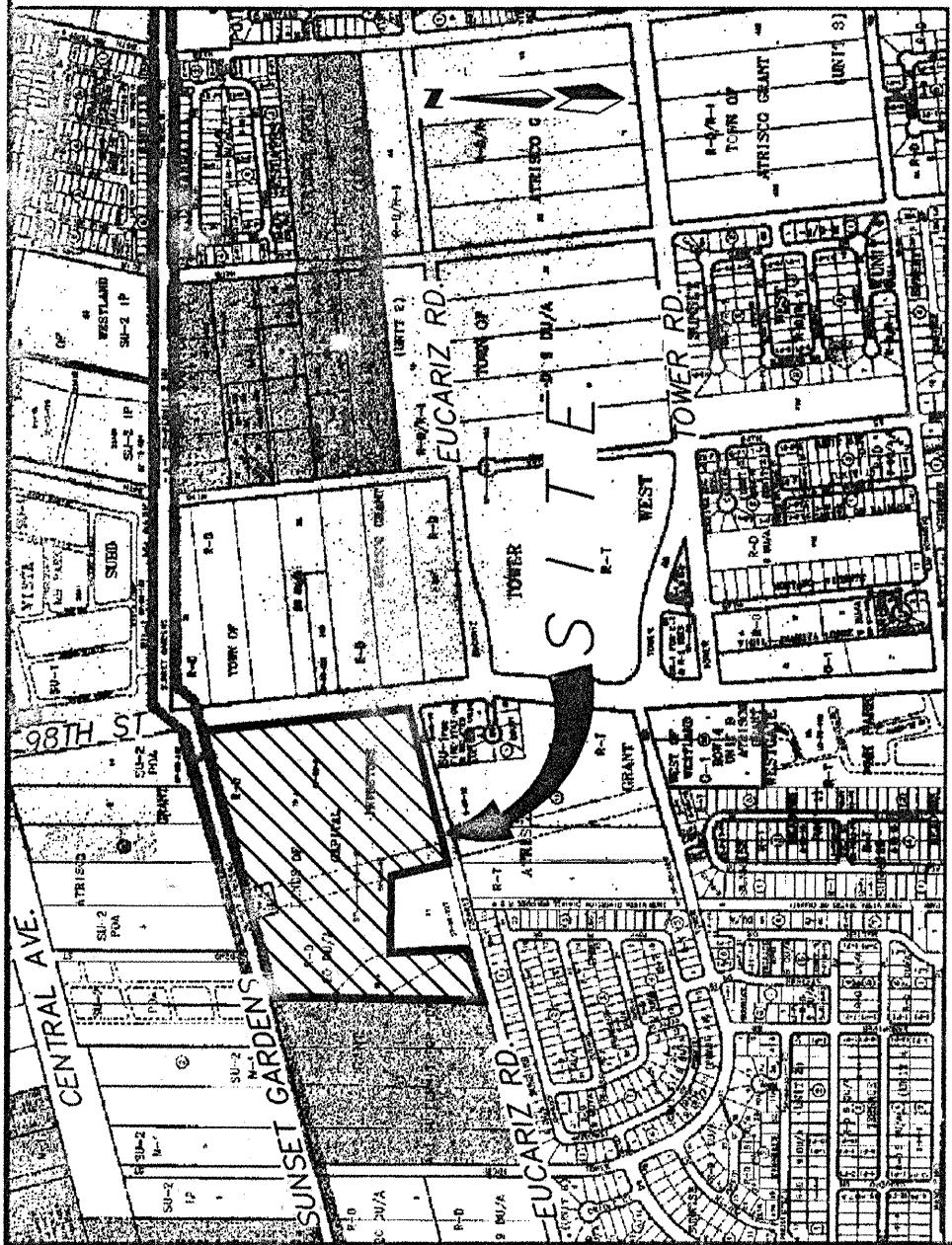
- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☒ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- ☒ SIDEWALK AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER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

DRB Project No. 1000301

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

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P. O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-8539

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS	ENGINEER	DATE	*****		
		DRC CHAIRMAN	<i>[Signature]</i>	9-7-00	APPROVED FOR CONSTRUCTION		
		TRANSPORTATION	<i>[Signature]</i>	9-5-00			
		WATER/WASTEWATER	<i>Bradley L. Bingham</i>	9-5-00			
		HYDROLOGY	<i>Bradley L. Bingham</i>	9-5-00	<i>Fred Agin 9/14/00</i>		
		CIP			CITY ENGINEER		
		CONSTR. MNGMT.			DATE		
		CONSTR. COORD.	<i>Bradley L. Bingham</i>	9-5-00			
		CITY PROJECT NO.	<i>645181</i>			SHEET	OF
						<i>1</i>	<i>20</i>



LEGAL DESCRIPTION (SEE SHEET 2)

NOTES (SEE SHEET 2)

PURPOSE OF PLAT

SUBDIVIDE EXISTING TRACT A, LANDS OF CAPITAL INVESTORS INTO 62 RESIDENTIAL LOTS AND TRACTS A AND B.
GRANT NEW EASEMENTS AS SHOWN
DEDICATE NEW RIGHT-OF-WAY AS SHOWN

PLAT FOR
SUNRISE RANCH
UNIT 1
TOWN OF ATRISCO GRANT
PROJECTED SECTION 28 & 29
TOWNSHIP 10 NORTH, RANGE 2 EAST, NMPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JULY 2000

LOCATION MAP
ZONE ATLAS L-8-Z, L-9-Z
SCALE: NONE

SUBDIVISION DATA

PLAT CASE NOS.	PROJECT.	APPLICATION
GROSS ACREAGE		30.5873
ZONE ATLAS NO.	L-8-Z, L-9-Z	
NO. OF EXISTING TRACTS/LOTS	1 TRACT	
NO. OF TRACTS/LOTS CREATED	62 LOTS & 2 TRACTS	
NO. OF TRACTS/LOTS ELIMINATED	1 TRACTS	
MILES OF FULL WIDTH STREETS CREATED	0.35	
AREA DEDICATED TO CITY OF ALBUQUERQUE	1.9183 AC FOR R/W	
DATE OF SURVEY	JANUARY 1997	
UTILITY CONTROL LOCATION SYSTEM LOG NUMBER:	97012813220341	

FREE CONSENT AND DEDICATION

The subdivision hereon described is with the free consent and in accordance with the desires of the undersigned owner(s) and/or proprietor(s) thereof and said owner(s) and/or proprietor(s) do hereby dedicate all streets and public places shown hereon to the City of Albuquerque, New Mexico, and do hereby grant, all access, utility and drainage easements shown hereon including the right to construct, operate, inspect, and maintain facilities therein; and all public utility easements shown hereon for the common and joint use of gas, electrical power and communication services for buried distribution lines, conduits, and pipes for underground utilities where shown or indicated, and including the right of ingress and egress for construction and maintenance, and the right to trim interfering trees and shrubs. Said owner(s) and/or proprietor(s) do hereby consent to all easements hereon and do hereby certify that this subdivision is their free act and deed.

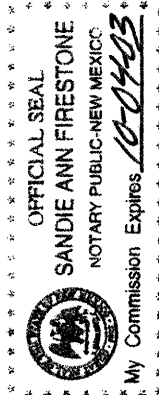
Paul White, Jr.
Vice President, 98th Street Ltd. Co.

8-1-00
DATE

OWNER'S ACKNOWLEDGMENT

STATE OF NEW MEXICO } ss
COUNTY OF BERNALILLO }
This instrument was acknowledged before me on August 6, 2000 by Paul White, Jr. Vice President, 98th Street Ltd. Co., a New Mexico Corporation on behalf of said Corporation.

Notary Public
MY COMMISSION EXPIRES 10-01-03



LEGAL DESCRIPTION

A tract of land situate within Sections 28 and 29, Township 10 North, Range 2 East, New Mexico Principal Meridian, Bernalillo County, New Mexico, being all of TRACT A, LANDS OF CAPITAL INVESTORS as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico on January 7, 1986 in Volume C35, Folio 117 and being more particularly described as follows:
BEGINNING at a point of the herein described tract, said point being on the west right-of-way line of 98th Street, S.W. from whence the Albuquerque Central Survey Monument "9-19" bears N 24°20'00" E, 236.56 feet;
Thence leaving said west right-of-way line 35.33 feet along a curve to the right, whose radius is 25.00 feet through a central angle of 80°57'41" and whose chord bears S 34°30'58" W, 32.46 feet to a point of tangency, said point being on the northerly right-of-way line of Eucairz Road S.W.;
Thence along said northerly right-of-way line S 74°59'49" W, 769.80 feet to a point, said point being the southeast corner of Block 9, THE LANDS OF ATRISCO GRANT, said point being the southeast corner of Lot 11, SUNSET GARDENS TRACT A, Block 9, THE LANDS OF ATRISCO GRANT, said point being the southeast corner of Lot 2, BLOCK 9, THE LANDS OF ATRISCO GRANT as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico on March 26, 1962 in Volume D3, Folio 26;

Thence leaving said northerly right-of-way line N 14°56'21" W, 291.07 feet to a point, said point being common with the northeast corner of said R/W 11;
Thence N 89°42'29" W, 359.58 feet to a point, said point being common with the northwest corner of said R/W 11;
Thence S 00°18'10" W, 400.11 feet to a point, said point being common with the southwest corner of said R/W 11 and further being on said northerly right-of-way line;
Thence along said northerly right-of-way line S 74°59'49" W, 272.84 feet to the southwest corner, said corner being common with the southeast corner of LOT 2, BLOCK 9, THE LANDS OF ATRISCO GRANT as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico on March 26, 1962 in Volume D3, Folio 26;
Thence leaving said northerly right-of-way line N 00°17'50" E, 1062.10 feet to the northwest corner of said tract, said point being the northeast corner of said LOT 2 and further being on the southerly right-of-way line of Sunset Gardens S.W.
Thence along said southerly right-of-way line N 75°00'30" E, 419.30 feet to a point, said point being common with the northwest corner of TRACT A, WEST CENTRAL SUBSTATION ADDITION as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico on May 3, 1977 in Volume B12, Folio 190;

Thence leaving said southerly right-of-way line S 14°59'30" E, 150.00 feet to a point, said point being common with the southwest corner of said TRACT A;
Thence N 75°00'30" E, 150.00 feet to a point, said point being common with the southeast corner of said TRACT A;
Thence N 14°59'30" W, 150.00 feet to a point, said point being common with the northeast corner of said TRACT A and further being on said southerly right-of-way line;
Thence along said southerly right-of-way line N 75°00'30" E, 800.18 feet to a point of curvature;

Thence leaving said southerly right-of-way line, 43.21 along a curve to the right, whose radius is 36.03 feet through a central angle of 99°01'37" and whose chord bears S 55°28'41" E, 36.03 feet to a point of tangency, said point being on said west right-of-way line of 98th Street S.W.;

Thence along said west right-of-way line S 05°57'52" E, 986.42 feet to the point of beginning and containing 30.5873 acres more or less.

Timothy Aldrich
08-14-00

NOTES

- Bearings are New Mexico State Plane Grid Bearings (Central Zone).
- Distances are ground distances.
- Bearings and distances in parenthesis are record.
- Basis of boundary are the following plats of record entitled:
LANDS OF THE ATRISCO GRANT (03-26-62, D3-26)
LANDS OF CAPITAL INVESTORS (01-07-88, C35-117)
all being records of Bernalillo County, New Mexico.
- Field Survey performed January, 1997.
- Utility Council Location System Log No. 97012813220341
- Title Report: None provided
- All property corners are set 5/8" rebar with cap "ALS LS 7719", unless otherwise noted.
- City of Albuquerque Zoning: R-D, 20 DU/A.
- Flood Zone Designation: ZONE C (area of minimal flooding) and ZONE A0 (area of 100 year shallow water flooding). The area between (1) and (3) feet as shown on Panel 32 of 50, FLOOD INSURANCE RATE MAP, City of Albuquerque, Bernalillo County, New Mexico dated October 14, 1983.
- Sunset Gardens Road is a Private Road and is apparently owned by WESTLAND DEVELOPMENT COMPANY.
- CITY OF ALBUQUERQUE WATER AND SANITARY SEWER SERVICE TO: SUNRISE RANCH UNITS 1-4
MUST BE VERIFIED AND COORDINATED WITH THE PUBLIC WORKS DEPARTMENT, CITY OF ALBUQUERQUE

PUBLIC UTILITY EASEMENTS

PUBLIC UTILITY EASEMENTS shown on this plat are granted for the common and joint use of:
1. The PNM Electric Services Division for the installation, maintenance, and service of overhead and underground electrical lines, transformers, poles and any other equipment, fixtures, structures and related facilities reasonably necessary to provide electrical services.
2. The PNM Gas Services Division for installation, maintenance, and service of natural gas lines, valves and other equipment and facilities reasonably necessary to provide natural gas services.
3. Quest for installation, maintenance and service of all buried and aerial communication lines and other related equipment and facilities reasonably necessary to provide communication services, including but not limited to above ground pedestals and enclosures.
4. Comcast for the installation, maintenance, and service of such lines, cable, and other related equipment and facilities reasonably necessary to provide Cable TV services.

SURVEYOR'S CERTIFICATION

I, Timothy Aldrich, a duly qualified Registered Professional Land Surveyor under the laws of the State of New Mexico, do hereby certify that this plat and description were prepared by me or under my supervision, shows all easements as shown on the plat of record or made known to me by the owners and/or proprietors of the subdivision shown hereon, utility companies and other parties expressing an interest and meets the minimum requirements for monumentation and surveys of the Albuquerque Subdivision Ordinance, and further meets the Minimum Standards for Land Surveying in the State of New Mexico, and is true and correct to the best of my knowledge and belief.

Timothy Aldrich
TIMOTHY ALDRICH, S. No. 7719
DATE 08-14-00

dwg: unit1sheet1	Drawn: SPS	Checked: ALS	Sheet: 1 of 5
Scale: 1"=50'	Date: 7-18-00	Job: A0022	

PLAT FOR
SUNRISE RANCH
UNIT 1

TOWN OF ATRISCO GRANT
PROJECTED SECTION 28 & 29
TOWNSHIP 10 NORTH, RANGE 2 EAST, NMPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JULY 2000

Included, is the right to build, rebuild, construct, reconstruct, locate, relocate, change, remove, modify, renew, operate, and maintain facilities for the purposes described above, together with free access to, from, and over said easements, including sufficient working area space for electric transformers, with the right and privilege to trim and remove trees, shrubs of bushes which interfere with the purposes set forth herein. No building, sign, pool (aboveground or subsurface), hot tub, concrete or wood pool decking, or other structure shall be drilled or constructed on said easements, nor shall any well be drilled or operated thereon. Property owners shall be solely responsible for correcting any violation of the National Electrical Safety Code caused by construction of pools, decking, or any structures adjacent to within or near easements shown on this plat.

In approving this plat, the utility companies did not conduct a title search of the properties shown hereon. Consequently, the utility companies do not waive or release any easement or easement rights which may have been granted by prior plat, replat or other document and which are not shown on this plat.

dwg: unit1sheet2	Drawn: SPS	Checked: ALS	Sheet: 2 of 5
Scale: 1"=200'	Date: 07-18-00	Job: A00022	

PLAT FOR
**SUNRISE RANCH
UNIT 1**
TOWN OF ATRISCO GRANT
PROJECTED SECTION 28 & 29
TOWNSHIP 10 NORTH, RANGE 2 EAST, NMPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JULY 2000

TYPICAL LOT DETAIL

LINE TABLE (THIS SHEET ONLY)

NUMBER	DISTANCE	DIRECTION
L1	7.66'	N 15°00'09" W
L2	64.99'	N 74°59'49" E
L3	25.81'	N 15°04'42" W
L4	59.51'	N 15°04'42" W
L5	28.47'	N 05°57'52" W
L6	10.77'	N 84°30'58" E

CURVE TABLE (THIS SHEET ONLY)

NUMBER	RADIUS	DELTA	ARC	TANGENT	BEARING	CHORD	CHORD BEARING	CHORD DISTANCE
C1	25.00	99°01'37"	43.21	29.29	N65°28'41" W	36.03	14.78	14.57
C2	25.00	89°59'18"	39.26	24.99	N29°59'48" E	35.35	12.96	25.69
C3	25.00	90°00'01"	39.27	25.01	N29°59'48" E	35.36	12.96	0.81
C4	25.00	90°00'01"	39.27	25.01	N30°00'00" E	35.36	12.96	0.81
C5	25.00	89°59'18"	39.27	25.01	N30°00'00" E	35.36	12.96	0.81
C6	25.00	16°24'49"	28.07	14.13	N87°12'13" E	27.98	11.77	75.63
C7	25.00	42°37'03"	18.60	9.75	N70°06'08" E	18.17	7.50	63.42
C8	45.00	152°19'28"	19.64	18.68	N55°02'41" W	87.39	21.34	62.22
C9	25.00	42°37'03"	18.60	9.75	N70°06'08" E	18.17	7.50	32.46
C10	98.00	15°32'08"	26.57	13.37	N73°43'56" W	26.49	16.17	38.03
C11	75.00	99°02'19"	129.64	87.87	N55°29'02" W	114.09	24.97	35.33
C12	52.00	99°02'19"	89.88	60.83	N55°29'02" W	79.10	24.97	35.33
C13	98.00	11°17'11"	19.31	9.68	N86°50'27" E	19.28	7.76	35.33
C14	98.00	05°07'32"	8.77	4.39	N86°50'27" E	8.76	3.76	34.34
C15	45.00	14°31'27"	11.41	5.73	N56°03'18" E	11.38	5.36	5.35
C16	45.00	32°15'19"	25.33	13.01	N79°26'41" E	25.00		
C17	45.00	32°15'19"	25.33	13.01	N68°18'00" W	25.00		
C18	45.00	32°15'19"	25.33	13.01	N36°02'41" W	25.00		
C19	45.00	41°02'05"	32.23	16.84	N00°36'00" E	31.54		
C20	25.00	08°44'36"	3.81	1.91	N16°44'45" E	3.81		

SUNSET GARDENS S.W. (60' R/W)

LAUREN AVENUE S.W. (10' PUE (TYPICAL))

SHARP SPUR STREET S.W.

89TH STREET S.W. (112' R/W)

EVENING FIRE STREET S.W.

EXISTING 7' PRIVATE UTILITY EASEMENT (01-07-86, C35-117)

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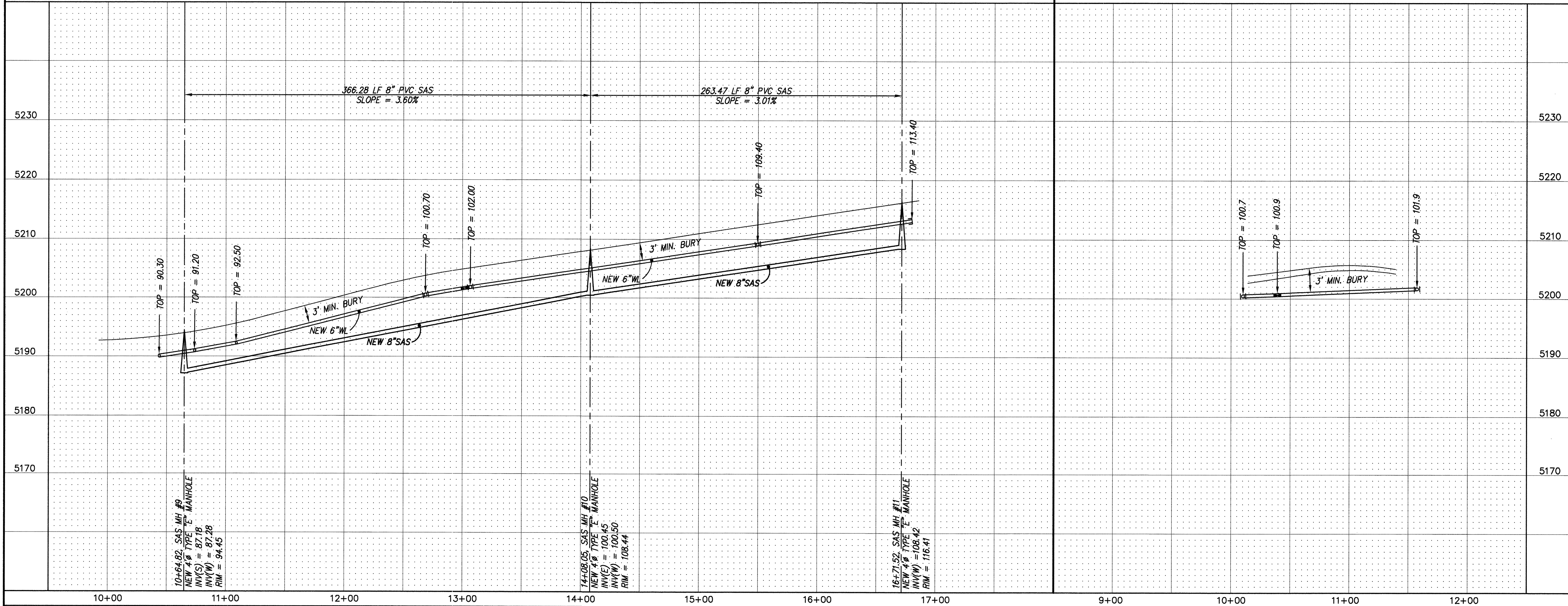
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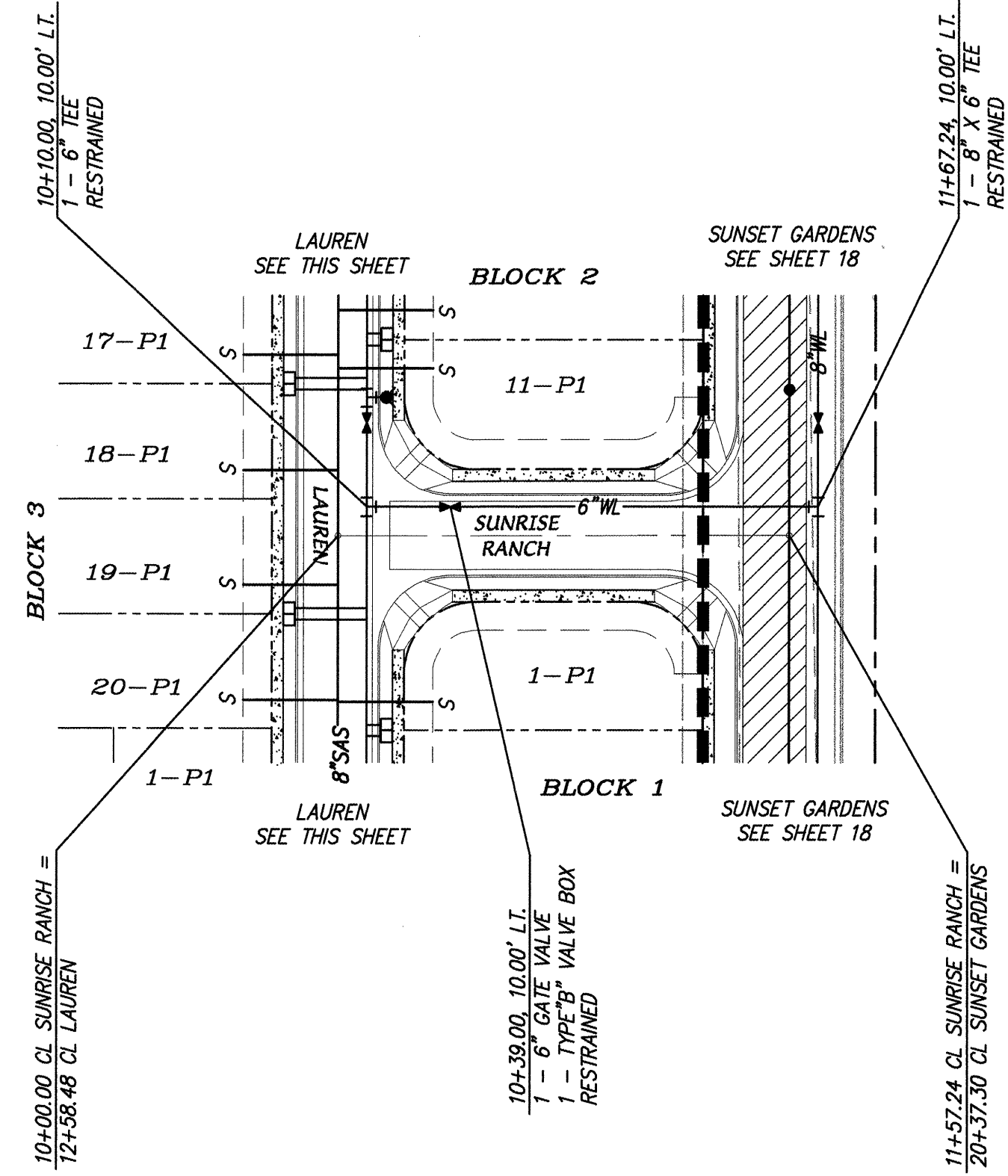
EXISTING 7' PRIVATE UTILITY EASEMENT (01-07-86, C35-117)

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SCANNED BY
MESA REPRO



LAUREN
STA. 10+00.00 TO STA. 16+86.46
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'



WATERLINE
SUNRISE RANCH
STA. 10+00.00 TO STA. 11+27.24
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

SANITARY SEWER SERVICES

BLOCK	LOT	STATION AT PUE	INV. ELEV. AT PUE	LENGTH AT PUE
1	1-P1	12+00.46	94.39	33.00'
1	2-P1	11+60.46	93.27	33.00'
1	3-P1	11+23.26	91.31	32.61'
1	4-P1	10+90.80	89.86	32.06'
2	1-P1	16+96.46	210.92	33.00'
2	2-P1	16+56.46	209.71	33.00'
2	3-P1	16+16.46	208.49	33.00'
2	4-P1	15+76.46	207.28	33.00'
2	5-P1	15+36.46	206.06	33.00'
2	6-P1	14+96.46	204.84	33.00'
2	7-P1	14+56.46	203.63	33.00'
2	8-P1	14+16.46	202.41	33.00'
2	9-P1	13+76.46	201.20	33.00'
2	10-P1	13+36.46	99.98	33.00'
2	11-P1	13+16.46	99.37	33.00'
3	13-P1	14+81.22	204.32	33.00'
3	14-P1	14+41.22	203.17	33.00'
3	15-P1	14+01.22	201.95	33.00'
3	16-P1	13+61.22	200.73	33.00'
3	17-P1	13+21.22	99.52	33.00'
3	18-P1	12+81.22	98.24	33.00'
3	19-P1	12+41.22	96.52	33.00'
3	20-P1	12+01.22	94.43	33.00'

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

PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
6"	17'	7'	3'	2'	46'
8"	22'	9'	4'	2'	72'
10"	26'	11'	5'	3'	72'

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

RESTRAINED JOINT LENGTH FOR TEES (FT.)

PIPE SIZE	RUN	BRANCH
10"x10"x6"	6'	1'
8"x8"x6"	7'	2'
6"x6"x6"	10'	2'
6"x6"x6"	10'	2'

MARK GOODWIN & ASSOCIATES, P.A.
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP
TITLE: **SUNRISE RANCH - UNIT 1
LAUREN & SUNRISE RANCH
UTILITY IMPROVEMENTS**

DESIGN REVIEW COMMITTEE
APPROVED
SEP - 7 2000
CITY ENGINEER

CITY ENGINEER APPROVAL
APPROVED
SEP 14 2000
CITY ENGINEER

DESIGN REVIEW COMMITTEE
CITY PROJECT NO. **645181**

ZONE MAP NO. **L-8, L-9**

SHEET **15** OF **20**

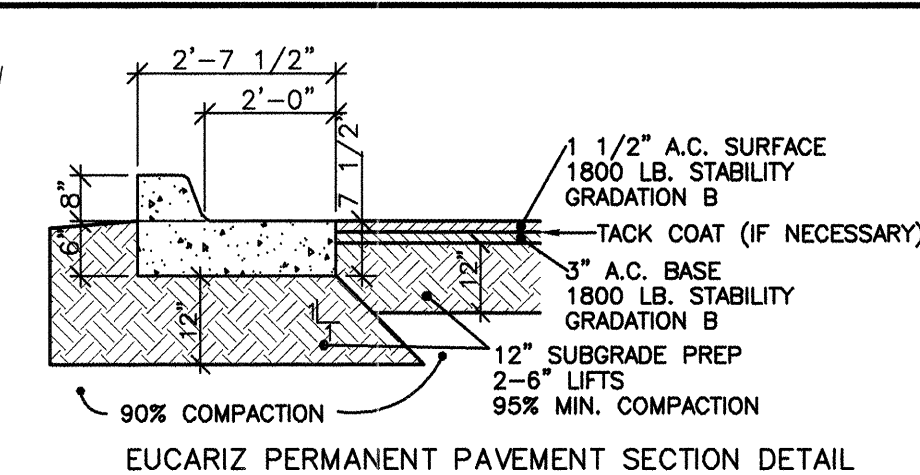
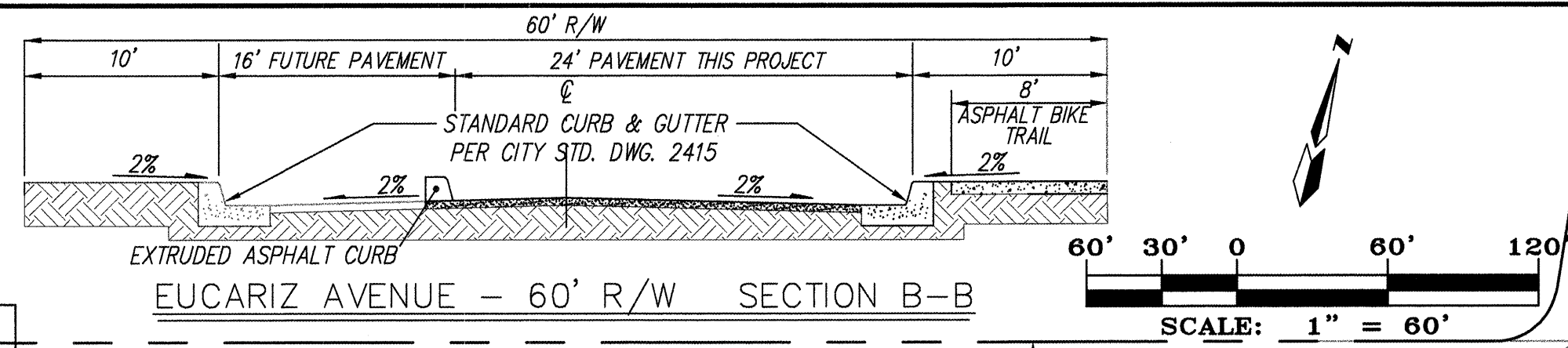
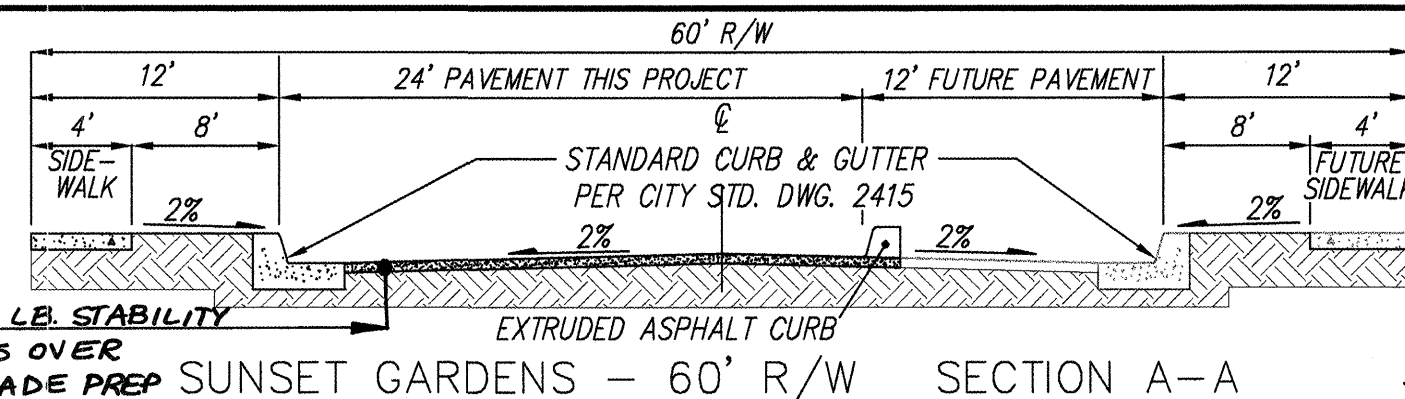
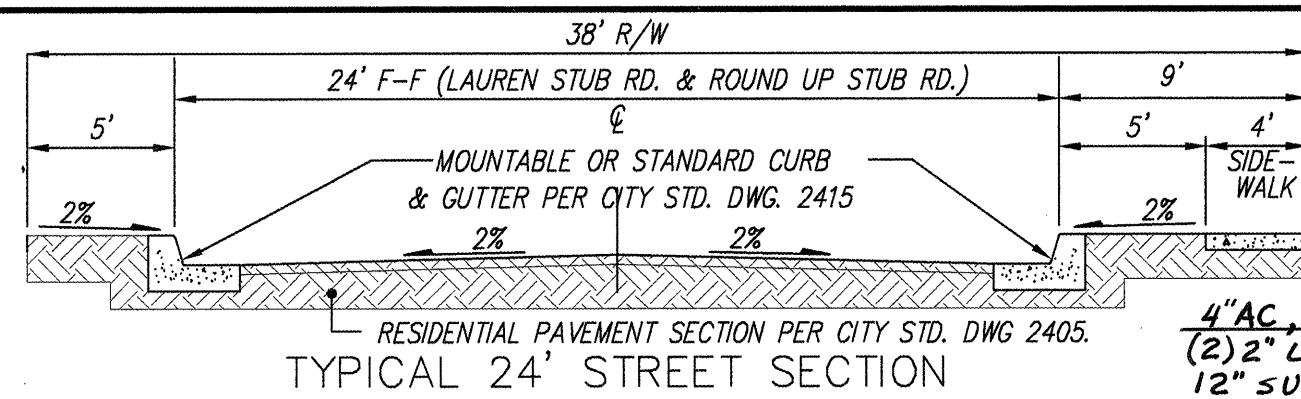
AS BUILT INFORMATION	
CONTRACTOR	FRANKLIN
WORK STARTED BY	ALS
DATE	00
FIELD ACCEPTANCE BY	ALS
DATE	00
DRAWINGS CORRECTED BY	ALS
DATE	00
MICRO-FILM INFORMATION	
RECORDED BY	
DATE	
NO.	

BENCH MARKS	
ACS MONUMENT "9-19"	THE STATION IS LOCATED 5.3 MILES
SOUTHWEST OF DOWNTOWN ALBUQUERQUE. TO REACH THE STATION	
FROM THE INTERSECTION OF I-40 AND 98TH ST., TRAVEL SOUTH ON	
98TH ST. 1.3 MILES TO THE STATION ON THE LEFT. THE STATION IS	
49.2' EAST OF THE CENTERLINE OF 98TH ST. AND IS 0.13 MILES	
NORTH OF RINDO CT., S.W.	
THE STATION IS AN ACS 3 1/4" ALUM. CAP RIVETED TO A PIPE	
0.25' ABOVE GROUND AND IS STAMPED "9-19, 1089"	
X =	353,055.34
Y =	1,480,156.08
ELEV. =	5187.036

SURVEY INFORMATION	
FIELD NOTES	
NO.	
DATE	
BY	

ENGINEER'S SEAL	
HOELZER NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 00-12-00	

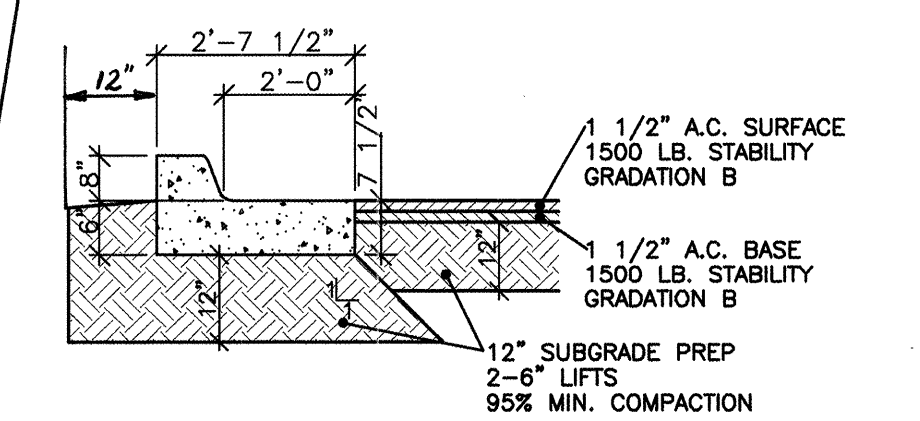
SCANNED BY
MESA REPRO



NOT TO SCALE
PAVEMENT SECTION PER PROJECT NO. 5011.92 (FIRE STATION 14)
NOTE: IF R VALUE IS LESS THAN 50, CONTRACTOR SHALL REPLACE 24" OF SUBGRADE WITH MATERIAL OF R VALUE GREATER THAN 50

NOTES

- ALL 4' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2421 AT KNUCKLES AND 6' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2420 AT ALL INTERSECTIONS.
- ALL 4' INTERIOR SIDEWALKS ARE DEFERRED.
- ALL HANDICAP RAMPS TO BE CASE II PER CITY OF ALBUQUERQUE STANDARD DRAWING 2441. WHERE GRADES DO NOT PERMIT A MAXIMUM SLOPE OF 12:1 TO BE MAINTAINED WITHIN THE 7' LENGTH AS SPECIFIED, THEN THE 7' LENGTH AS SHOWN IN DRAWING 2441 MUST BE INCREASED TO MAINTAIN A SLOPE < 12:1.
- TRANSITION FROM MOUNTABLE CURB TO STANDARD CURB SHALL BE WITHIN 10' SECTION.
- TRANSITION SECTION FROM FULL CROWN TO NO CROWN TO BE A MINIMUM OF 50', PER CITY OF ALBUQUERQUE STANDARD DRAWING 2401.



NOT TO SCALE
PAVEMENT SECTION PER COA STD. DWG. 2405

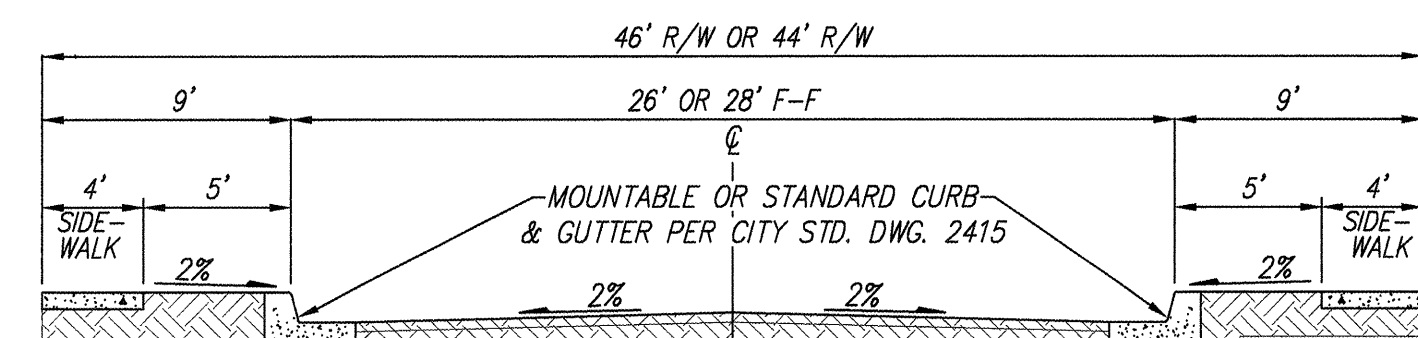
LEGEND

- FUTURE SANITARY SEWER MANHOLE
- FUTURE STORM SEWER MANHOLE
- EXISTING 8" SANITARY SEWER
- EXISTING STORM DRAIN
- STANDARD 8" CURB & GUTTER
- MOUNTABLE CURB & GUTTER
- RETAINING WALL
- CENTERLINE
- TRACT/LOT BOUNDARY
- SETBACK
- PROPERTY
- PUE
- EXISTING EASEMENT
- EXISTING CONTOUR
- EXISTING LOTS
- HANDICAP RAMPS
- STREET LIGHT
- SIDEWALK
- 50' CROWN TRANSITION
- STORM DRAIN INLET
- CROSS SLOPE, NO CROSS SECTION
- STREET LIGHT

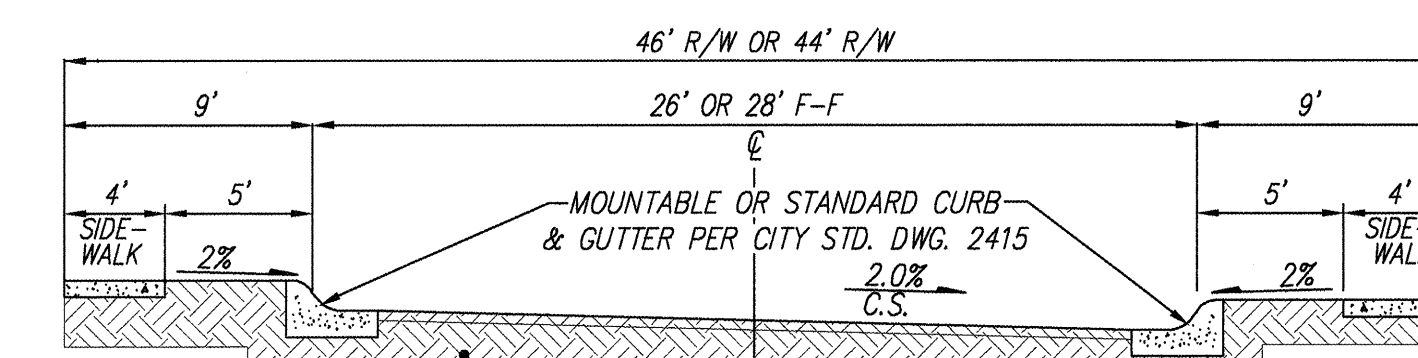
- A = CURB RETURN POINT
B = QUARTER POINTS
C = 5' BEHIND FACE OF CURB RETURN
D = RIGHT OF WAY RETURN POINT

- GRADE IN THESE AREAS IS NOT CRITICAL
THIS AREA IS 5' x 5' w/ 50:1 MAX. SLOPE

GENERAL WHEEL CHAIR RAMP DETAIL

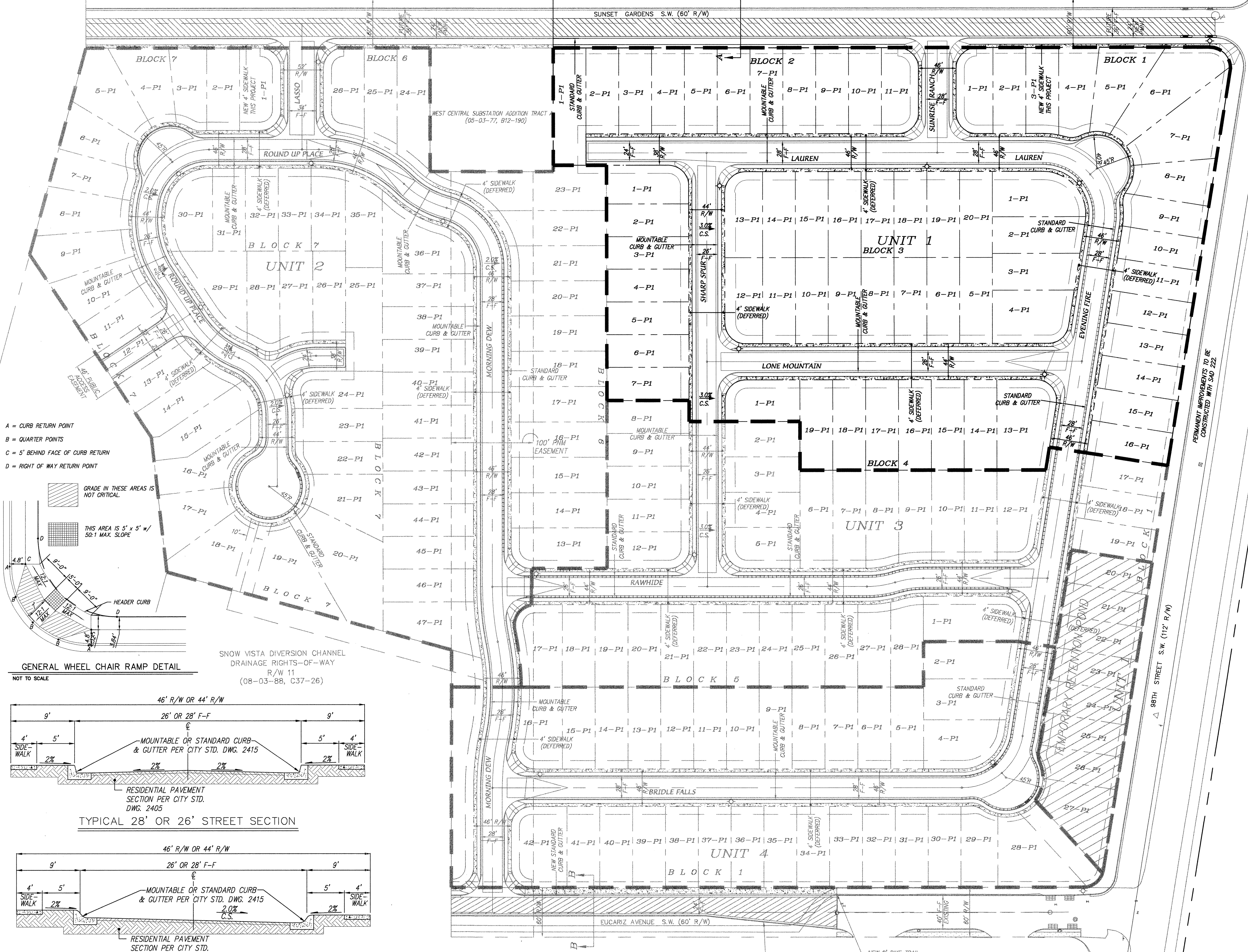


TYPICAL 28' OR 26' STREET SECTION



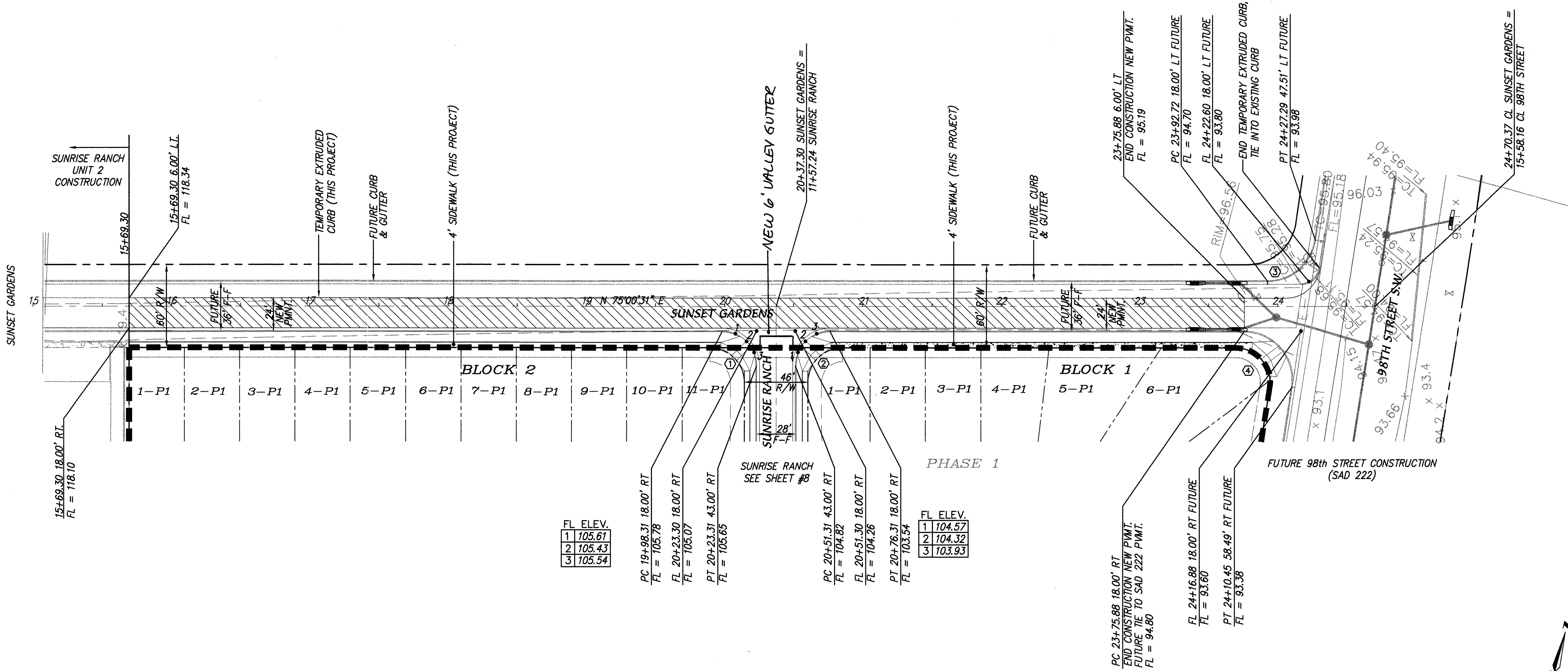
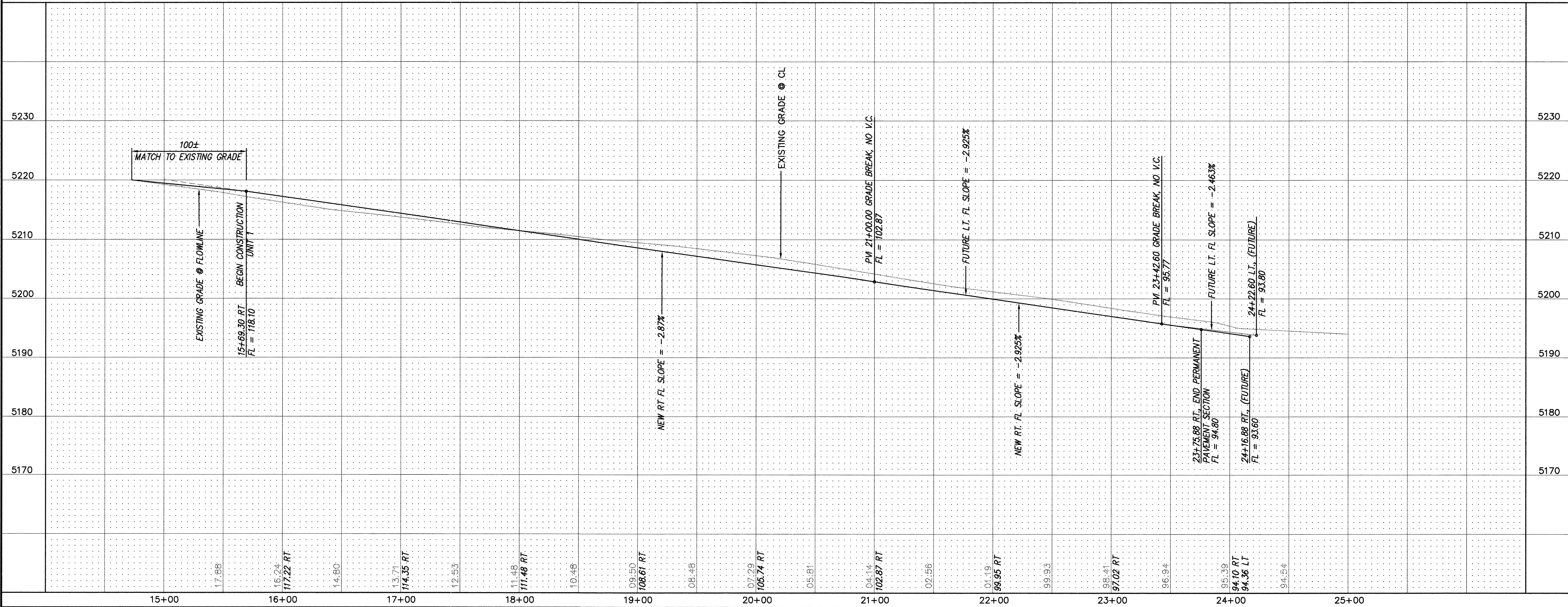
TYPICAL 28' OR 26' STREET SECTION WITH NO CROWN SECTION

N.T.S.



AS BUILT INFORMATION				CONTRACTOR INFORMATION				ENGINEER'S SEAL				DESIGNED BY			
DATE	BY	NO.	REMARKS	DATE	BY	NO.	REMARKS	DATE	BY	NO.	REMARKS	DATE	BY	NO.	REMARKS
08/23/00	ALS	00		08/23/00	ALS	00		08/23/00	ALS	00		08/23/00	ALS	00	
CONTRACTOR: F&B ASSOCIATES, INC.				ENGINEER: MARK GOODWIN & ASSOCIATES, P.A.				CITY OF ALBUQUERQUE				CITY OF ALBUQUERQUE			
PROJECT: SUNRISE RANCH - UNIT 1				PROJECT: SUNRISE RANCH - UNIT 1				PROJECT: SUNRISE RANCH - UNIT 1				PROJECT: SUNRISE RANCH - UNIT 1			
SHEET: 6				SHEET: 6				SHEET: 6				SHEET: 6			

SCANNED BY
MESA REPRO



SUNSET GARDENS
STA. 15+69.30 TO STA. 24+70.37
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

NOTES
1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA - DESCRIBES FACE OF CURB

① Δ = 89°59'17" RT. R = 25.00' L = 39.28' T = 24.99'	② Δ = 90°00'43" RT. R = 25.00' L = 38.28' T = 25.01'	③ Δ = 80°58'23" RT. R = 35.00' L = 49.46' T = 29.88'
---	---	---

④ Δ = 99°01'37" RT.
R = 3500'
L = 60.49'
T = 41.00'

FUTURE = TO BE BUILT WITH SAD 222.

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

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **SUNRISE RANCH - UNIT 1
SUNSET GARDENS
PAVING IMPROVEMENTS**

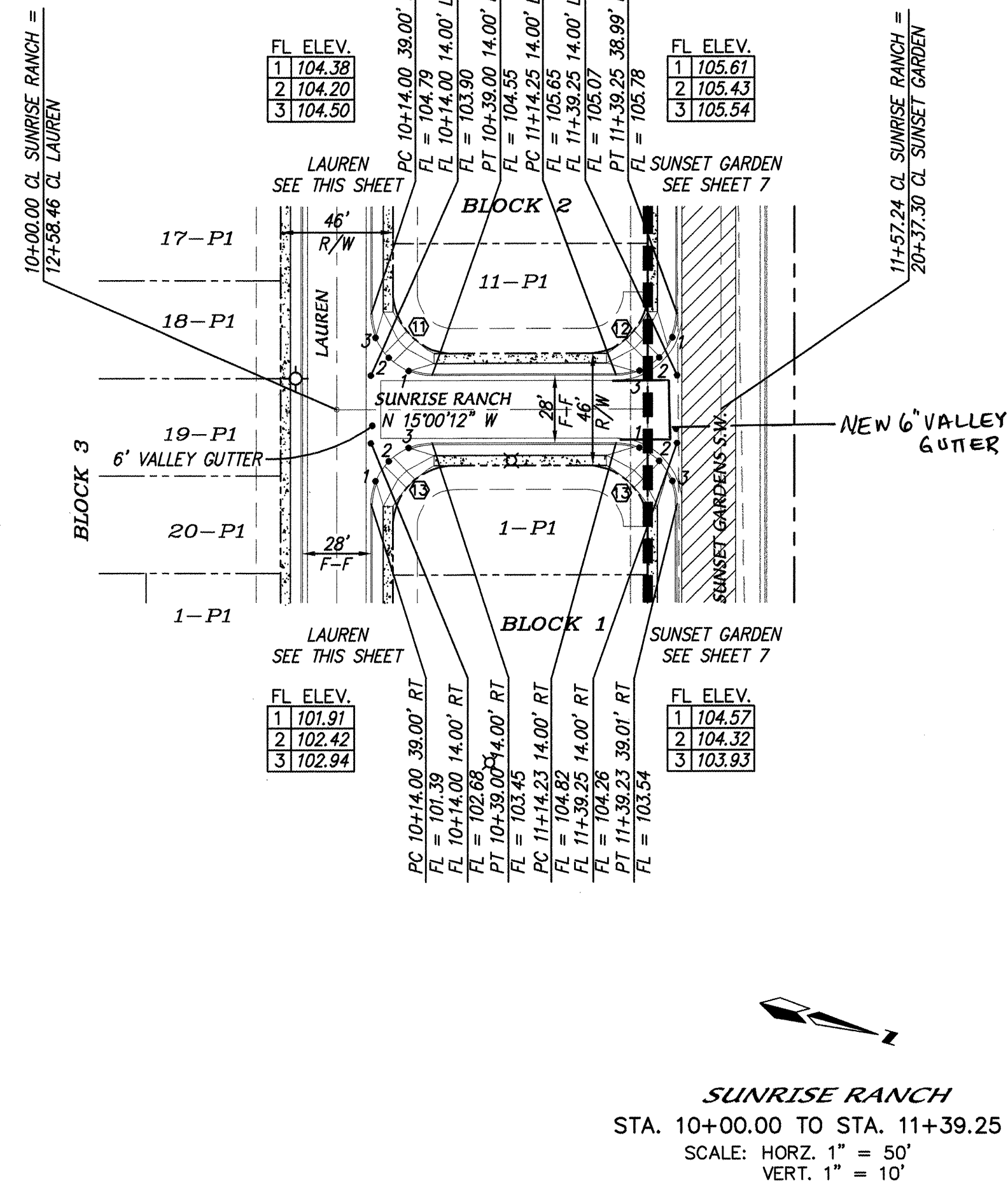
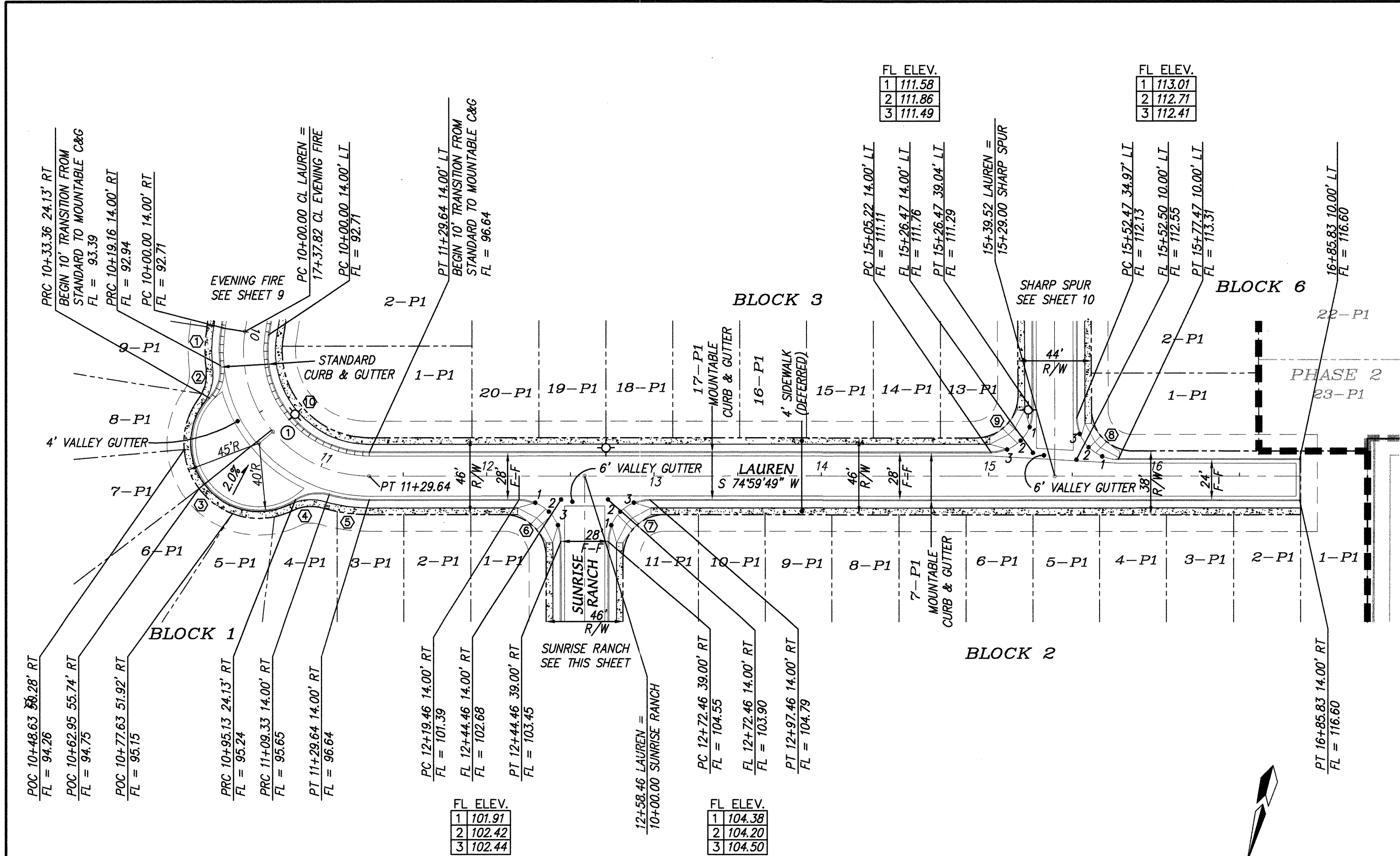
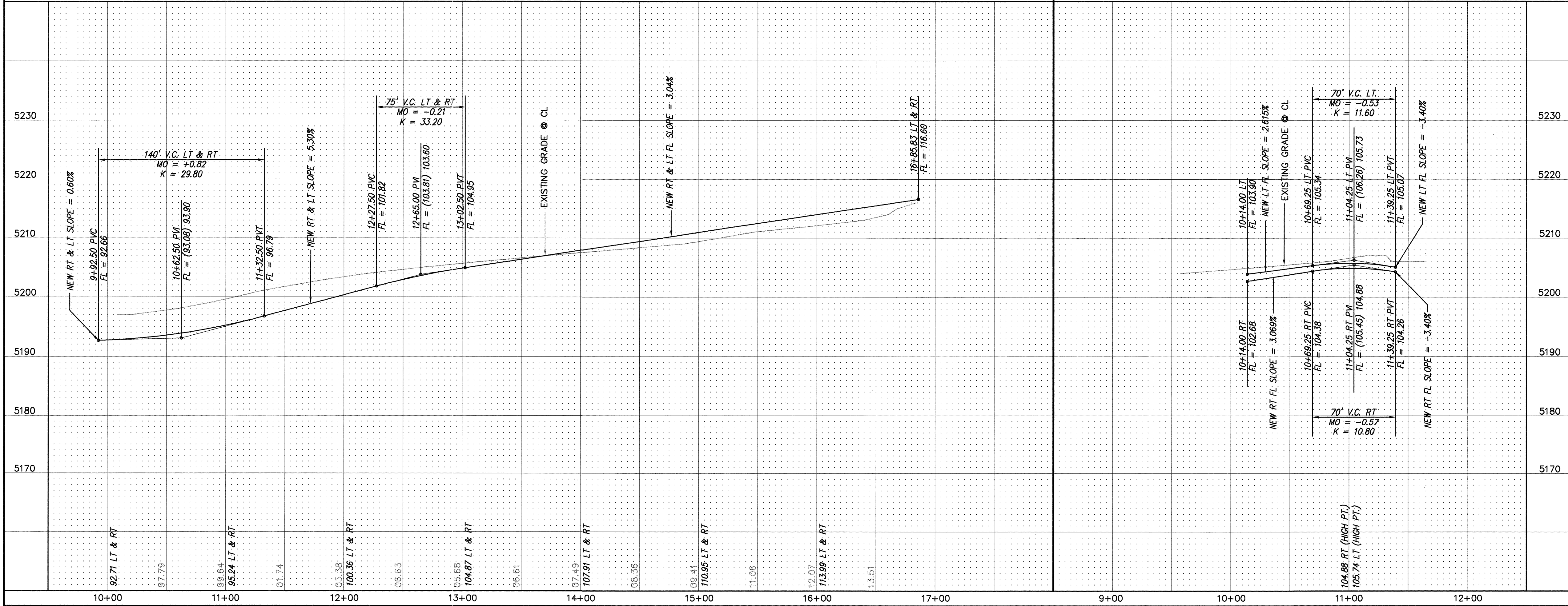
DESIGN REVIEW COMMITTEE
APPROVED SEP - 7 2000

CITY ENGINEER
APPROVED SEP 14 2000

CITY PROJECT NO. **645181**
ZONE MAP NO. **L-8, L-9**
SHEET **7** OF **20**

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES		ACCS MONUMENT "9-19", THE STATION IS LOCATED 5.3 MILES SOUTH OF THE INTERSECTION OF I-40 AND 98TH ST., TRAVEL SOUTH ON 98TH ST. 1.3 MILES TO THE STATION ON THE LEFT. THE STATION IS 49.2' EAST OF THE CENTERLINE OF 98TH ST., AND IS 0.13 MILES NORTH OF RYND CT., S.W.		CONTRACTOR FRANKLIN	
		DATE		DATE		DATE	
NO.		BY		DATE		DATE	
REVISIONS		REVISIONS		REVISIONS		REVISIONS	
DESIGNED BY DLH		DATE 07/00		DESIGNED BY DLH		DATE 07/00	
DRAWN BY MJR		DATE 07/00		DRAWN BY MJR		DATE 07/00	
CHECKED BY DMG		DATE 07/00		CHECKED BY DMG		DATE 07/00	

SCANNED BY
MESA REPRO



NOTES	
1. ALL STATIONING IS CENTERLINE STATIONING.	
CURVE DATA - DESCRIBES CENTERLINE	
① Δ = 99°03'19" RT. R = 75.00' L = 129.64' T = 87.87'	
CURVE DATA - DESCRIBES FACE OF CURB	
① Δ = 143°12' RT R = 89.00' L = 22.74' T = 11.43'	② Δ = 48°16' RT R = 25.00' L = 31.06' T = 11.20'
③ Δ = 165°25'36" RT R = 40.00' L = 115.40' T = 312.83'	④ Δ = 48°16' RT R = 25.00' L = 21.06' T = 11.20'
⑤ Δ = 153°10' RT R = 89.00' L = 24.10' T = 12.13'	⑥ Δ = 89°59' RT R = 25.00' L = 39.27' T = 25.00'
⑦ Δ = 90°00' RT R = 25.00' L = 39.27' T = 25.00'	⑧ Δ = 89°59' RT R = 25.00' L = 39.24' T = 24.97'
⑨ Δ = 90°04' RT R = 25.00' L = 39.30' T = 25.00'	⑩ Δ = 90°00' RT R = 25.00' L = 39.27' T = 25.00'
⑪ Δ = 90°00' RT R = 25.00' L = 39.27' T = 25.00'	⑫ Δ = 89°59' RT R = 25.00' L = 39.27' T = 25.00'

MARK GOODWIN & ASSOCIATES, P.A.
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP
TITLE: **SUNRISE RANCH - UNIT 1
LAUREN & SUNRISE RANCH
PAVING IMPROVEMENTS**

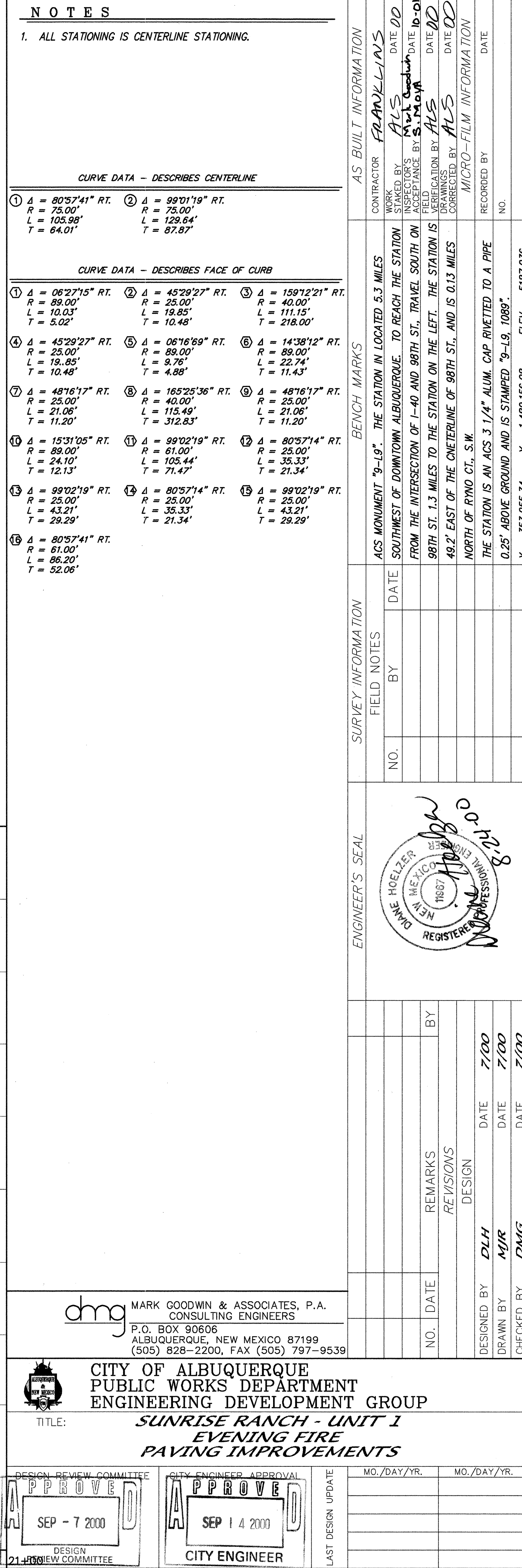
DESIGN REVIEW COMMITTEE
APPROVED
SEP - 7 2000
DESIGN REVIEW COMMITTEE

CITY ENGINEER
APPROVED
SEP 14 2000
CITY ENGINEER

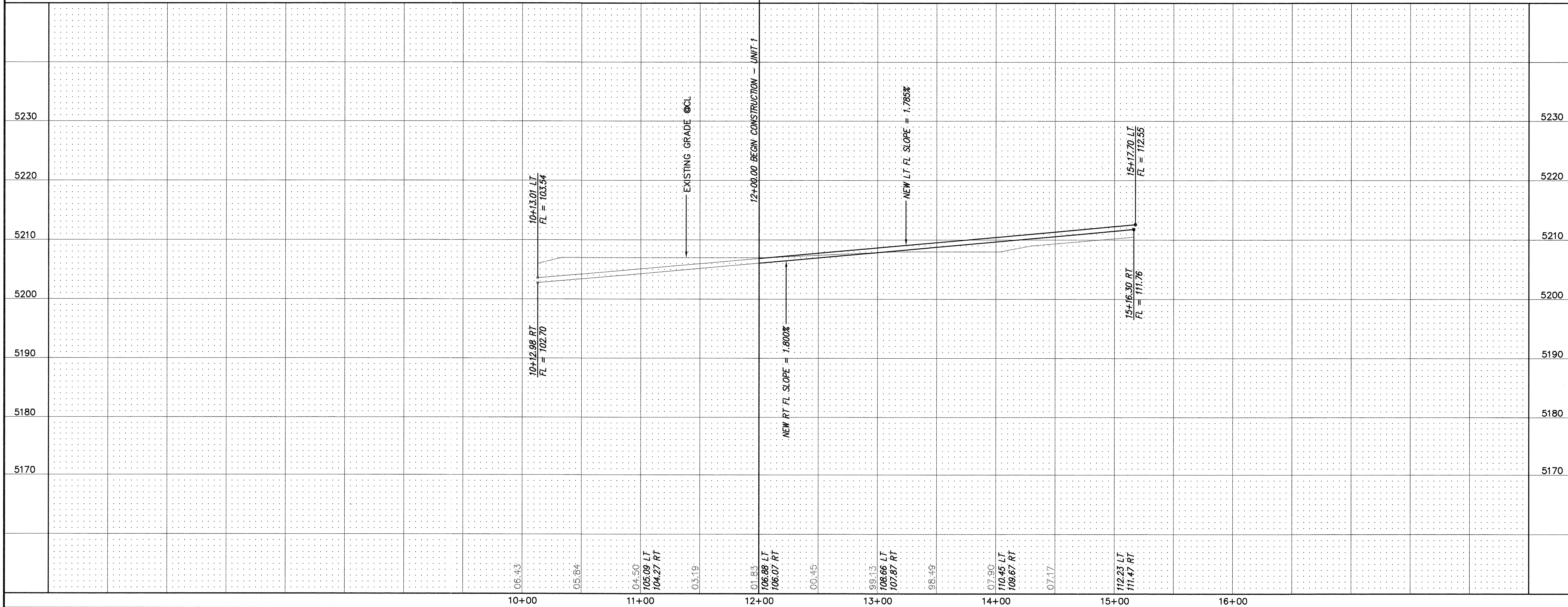
CITY PROJECT NO. **645181**
ZONE MAP NO. **L-8, L-9**

SHEET **8** OF **20**

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	FRANKLIN'S	ACCS MONUMENT	9-19"	FIELD NOTES	DATE	ENGINEER'S SEAL	DATE
WORK BY	ALB	DATE	08/23/00	NO.	BY	ENGINEER'S SEAL	DATE
INSPECTOR'S	ALB	DATE	08/23/00	REMARKS	BY	ENGINEER'S SEAL	DATE
ACCEPTANCE BY	ALB	DATE	08/23/00	REVISIONS	BY	ENGINEER'S SEAL	DATE
VERIFICATION BY	ALB	DATE	08/23/00	DESIGN	BY	ENGINEER'S SEAL	DATE
DRAWINGS	ALB	DATE	08/23/00	NO.	DATE	ENGINEER'S SEAL	DATE
CORRECTED BY	ALB	DATE	08/23/00	DESIGNED BY	DATE	ENGINEER'S SEAL	DATE
RECORDED BY	ALB	DATE	08/23/00	DRAWN BY	DATE	ENGINEER'S SEAL	DATE
NO.	ALB	DATE	08/23/00	CHECKED BY	DATE	ENGINEER'S SEAL	DATE
MICRO-FILM INFORMATION		ELEV. = 5187.036		ELEV. = 5187.036		ELEV. = 5187.036	



SCANNED BY
MESA REPRO



UNIT 3
FUTURE

UNIT 1
THIS PROJECT

SHARP SPUR
STA. 10+00.00 TO STA. 15+29.00
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA - DESCRIBES FACE OF CURB

① $\Delta = 90^\circ 04' 31''$ RT. $R = 25.00'$ $L = 39.30'$ $T = 25.03'$	② $\Delta = 89^\circ 55' 29''$ RT. $R = 25.00'$ $L = 39.24'$ $T = 24.97'$	③ $\Delta = 90^\circ 04' 30''$ RT. $R = 25.00'$ $L = 39.30'$ $T = 25.03'$
④ $\Delta = 89^\circ 55' 24''$ RT. $R = 25.00'$ $L = 39.24'$ $T = 24.97'$	⑤ $\Delta = 24^\circ 37' 09''$ RT. $R = 70.00'$ $L = 30.08'$ $T = 15.27'$	⑥ $\Delta = 89^\circ 55' 29''$ RT. $R = 25.00'$ $L = 39.24'$ $T = 24.97'$

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	FRAN KLINS	DATE	00	NO.	BY	DATE	NO.
STATIONED BY	FRS	DATE	00	NO.	BY	DATE	NO.
FIELD ACCEPTANCE BY	ALS	DATE	00	NO.	BY	DATE	NO.
DRAWINGS	ALS	DATE	00	NO.	BY	DATE	NO.
CORRECTED BY	ALS	DATE	00	NO.	BY	DATE	NO.
RECORDED BY	MICRO-FILM INFORMATION	DATE		NO.	BY	DATE	NO.

DATE: 07/00
DRAWN BY: DLH
CHECKED BY: DMG

DESIGNED BY: DLH
DATE: 07/00

REVISIONS
DESIGN
DATE: 07/00

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

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **SUNRISE RANCH - UNIT 1
SHARP SPUR
PAYING IMPROVEMENTS**

DESIGN REVIEW COMMITTEE
APPROVED
SEP - 7 2000

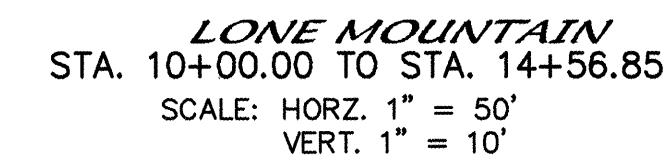
CITY ENGINEER APPROVAL
APPROVED
SEP 14 2000

LAST DESIGN UPDATE

CITY PROJECT NO. **645181**

ZONE MAP NO. **L-8, L-9**

SHEET **10** OF **20**



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA - DESCRIBES FACE OF CURB

①	$= 89^{\circ}55'29'' \text{ RT}$ $R = 25.00'$ $L = 39.24'$ $T = 24.97'$	②	$= 80^{\circ}57'41'' \text{ RT}$ $R = 25.00'$ $L = 35.33'$ $T = 21.34'$	③	$= 99^{\circ}02'19'' \text{ RT}$ $R = 25.00'$ $L = 43.21'$ $T = 29.29'$
④	$= 90^{\circ}04'31'' \text{ RT}$ $R = 25.00'$ $L = 39.30'$ $T = 25.03'$				

SURVEY INFORMATION			BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE			CONTRACTOR	
			ACS MONUMENT "9-L". THE STATION IS LOCATED 5.3 MILES SOUTHWEST OF DOWNTOWN ALBUQUERQUE. TO REACH THE STATION FROM THE INTERSECTION OF I-40 AND 98TH ST., TRAVEL SOUTH ON 98TH ST. 1.3 MILES TO THE STATION ON THE LEFT. THE STATION IS 49.2' EAST OF THE CENTERLINE OF 98TH ST. AND IS 0.13 MILES NORTH OF RYNO CT., S.W.		INSPECTOR'S FIELD VERIFICATION BY	DATE
			THE STATION IS AN ACS 3 1/4" ALUM. CAP RIVETED TO A PIPE 0.25" ABOVE GROUND AND IS STAMPED "9-L, 1089".		INSPECTOR'S FIELD VERIFICATION BY	DATE
			X = 353.0555, Y = 1490.15609		INSPECTOR'S FIELD VERIFICATION BY	DATE
			FLV# = 5187.036		INSPECTOR'S FIELD VERIFICATION BY	DATE

[illegible]

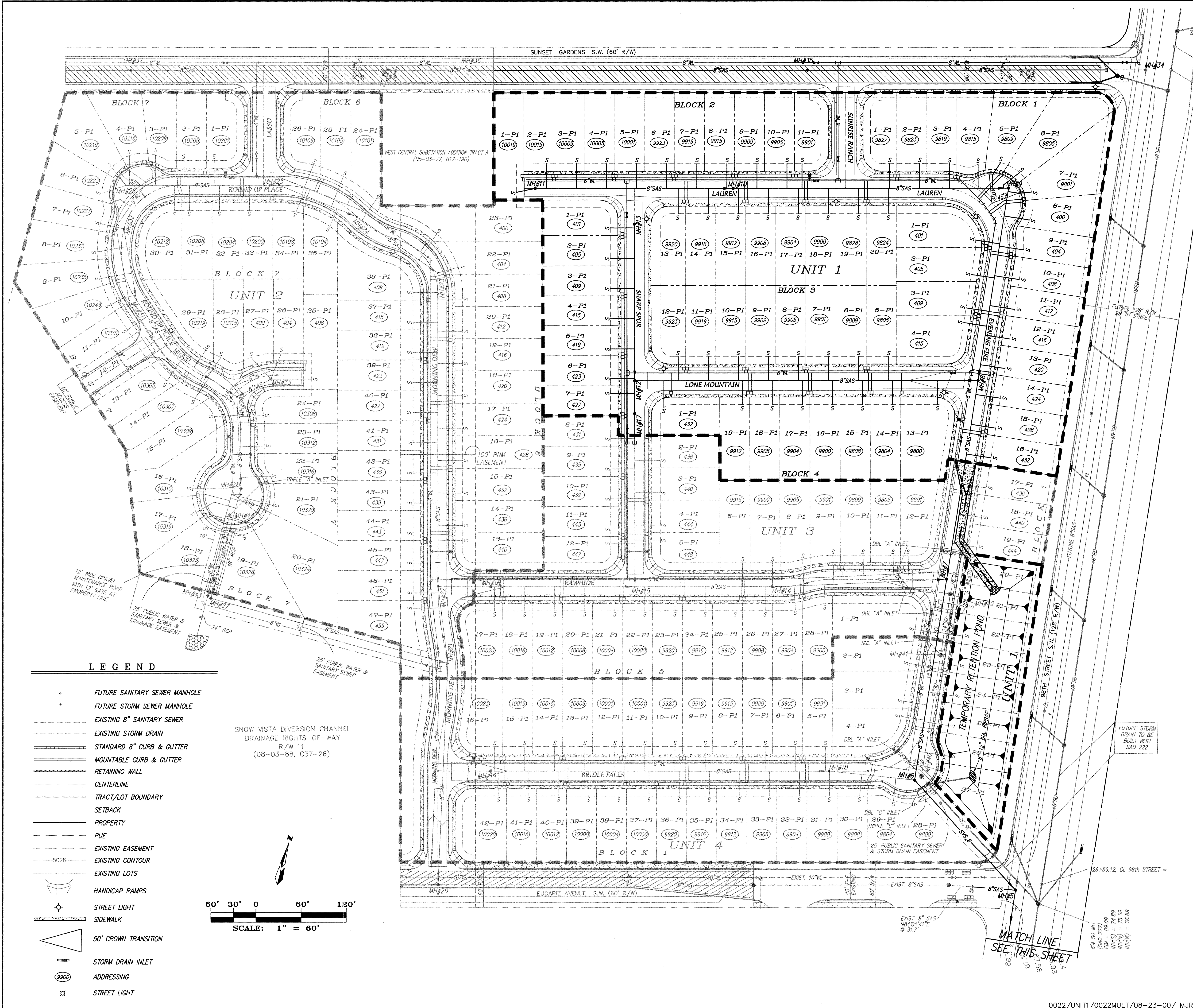
dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP
	TITLE: <i>SUNRISE RANCH - UNIT 1 LONE MOUNTAIN PAVING IMPROVEMENTS</i>

DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL		LAST DESIGN UPDATE	
APPROVED		APPROVED		MO./DAY/YR.	MO./DAY/YR.
SEP - 7 2000		SEP 14 2000			
DESIGN REVIEW COMMITTEE		CITY ENGINEER			

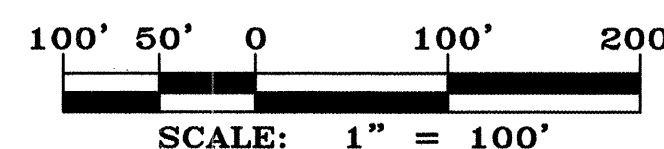
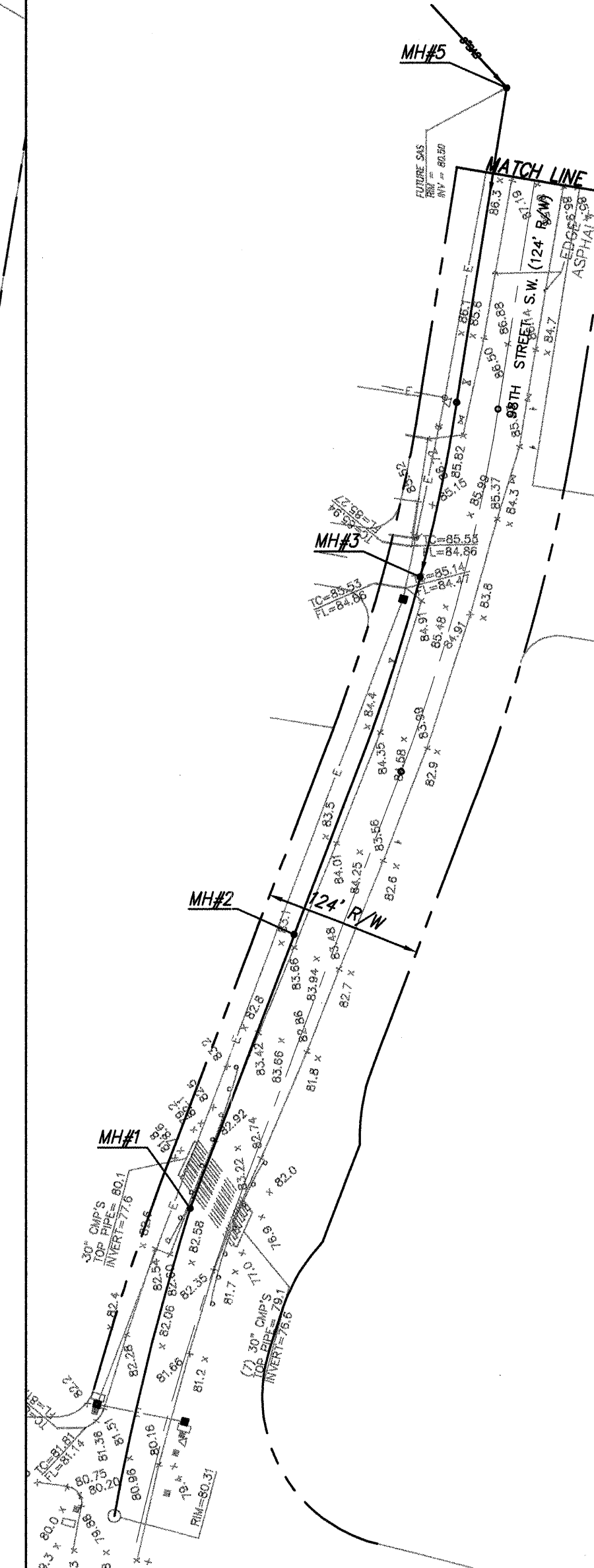
<i>645181</i>	ZONE MAP NO. <i>L-8, L-9</i>	SHEET <i>11</i>	OF <i>20</i>
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SCANNED BY
MESA REPRO



OFF-SITE SANITARY SEWER IMPROVEMENTS

NOTE: ALL STATIONING IS 98th STREET STATIONING.



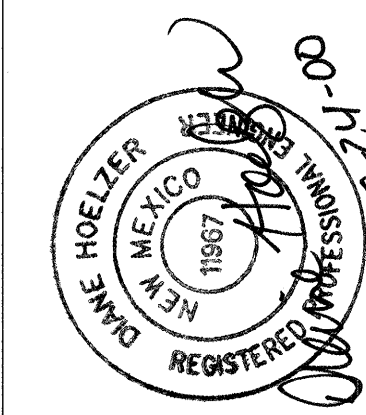
MARK GOODWIN & ASSOCIATES, P.A.
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

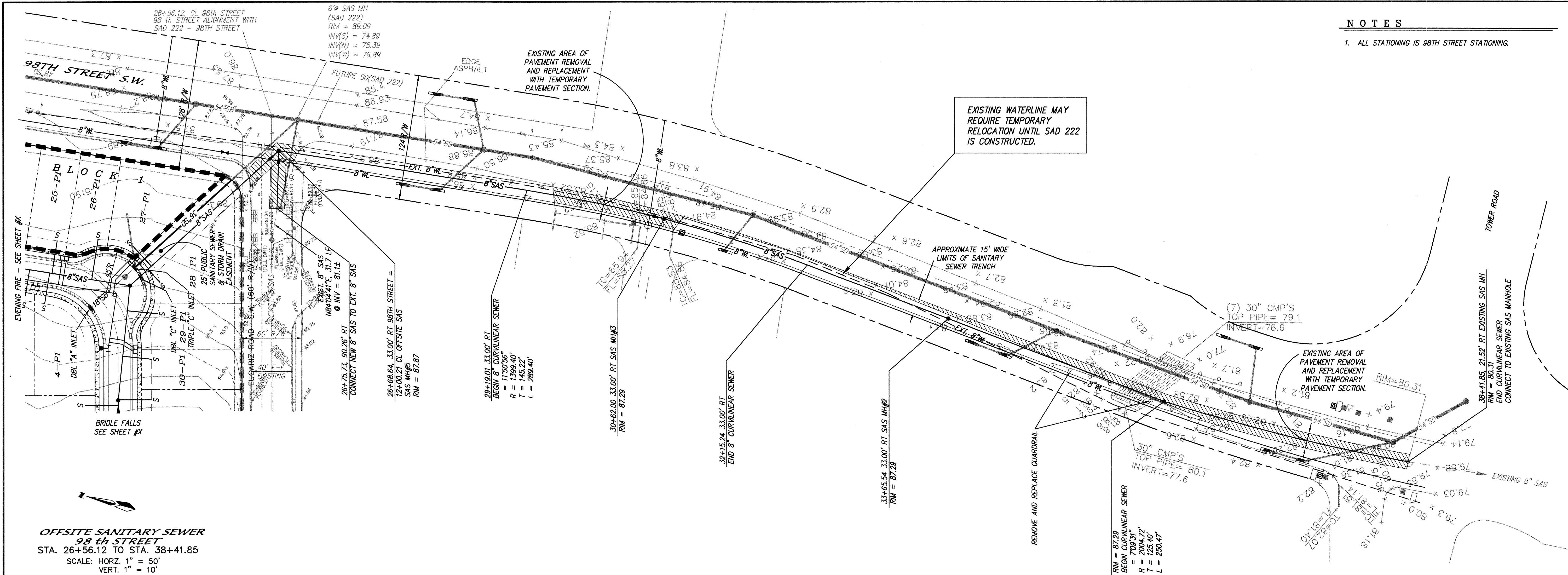
TITLE: **SUNRISE RANCH - UNIT 1
MASTER UTILITY PLAN**

DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL		MO./DAY/YR.	
APPROVE	SEP - 7 2000	APPROVE	SEP 14 2000		
DESIGN REVIEW COMMITTEE		CITY ENGINEER			
CITY PROJECT NO.		ZONE MAP NO.		SHEET OF	
645181		L-8, L-9		12 20	

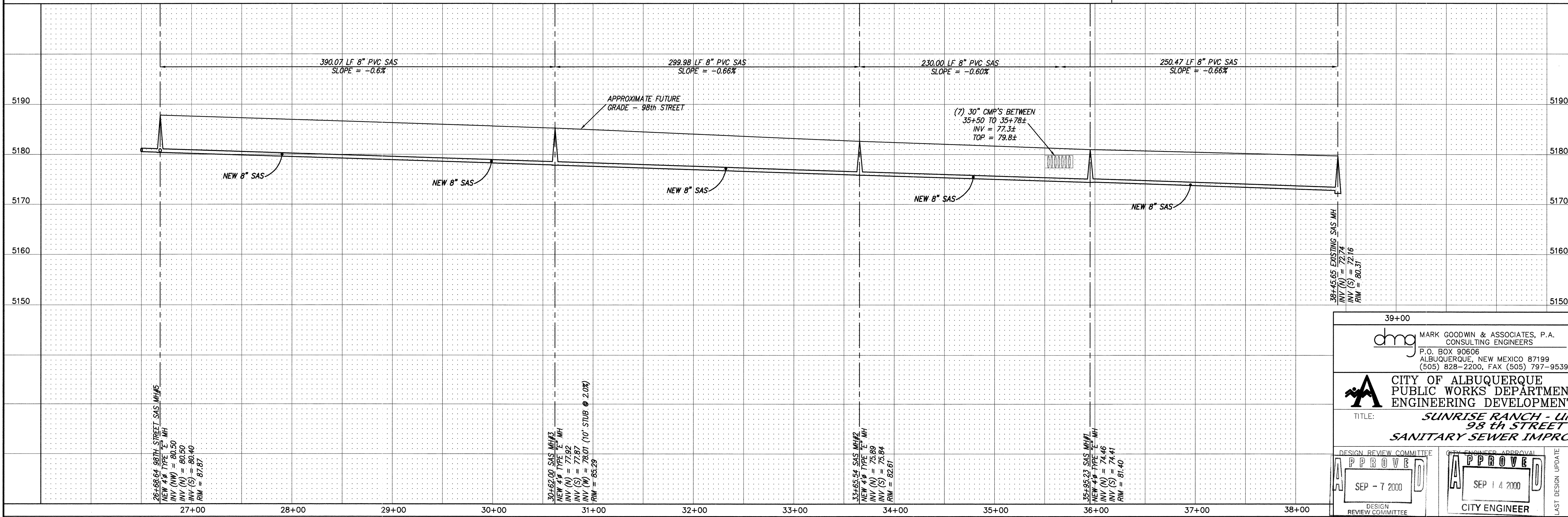
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	FRANKLINS	DATE	00	NO.	DATE	NO.	DATE
INSPECTOR'S FIELD	ALS	DATE	00	BY	DATE	BY	DATE
VERIFICATION BY	ALS	DATE	00	REMARKS	REVISIONS	DESIGN	DATE
CORRECTED BY	ALS	DATE	00	NO.	DATE	NO.	DATE
MICRO-FILM INFORMATION		RECORDED BY		DATE		DATE	



SCANNED BY
MESA REPRO



OFFSITE SANITARY SEWER
98th STREET
STA. 26+56.12 TO STA. 38+41.85
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



NOTES

1. ALL STATIONING IS 98TH STREET STATIONING.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	FRANKLIN'S	ACS MONUMENT "9-L9"	DATE	NO.	BY		REVISIONS DESIGN DATE DRAWN BY CHECKED BY
WORK	ALC	Y = 1480156.08	DATE	NO.	BY		
STATIONED BY	ALC	X = 353005.34	DATE	NO.	BY		
ACCEPTANCE BY	ALC	G-C = 0.99967636	DATE	NO.	BY		
FIELD INFORMATION		DELTA ALPHA = -0016.56"		CENTRAL ZONE (NAD 1983/SLD 1999)		DATE 07/00	
DRAWINGS		CORRECTED BY		ELEVATION = 5187.04		DATE 07/00	
MICRO-FILM INFORMATION		RECORDED BY				DATE 07/00	
NO.							

39+00

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **SUNRISE RANCH - UNIT 1**
98th STREET
SANITARY SEWER IMPROVEMENTS

DESIGN REVIEW COMMITTEE
 SEP - 7 2000
DESIGN REVIEW COMMITTEE

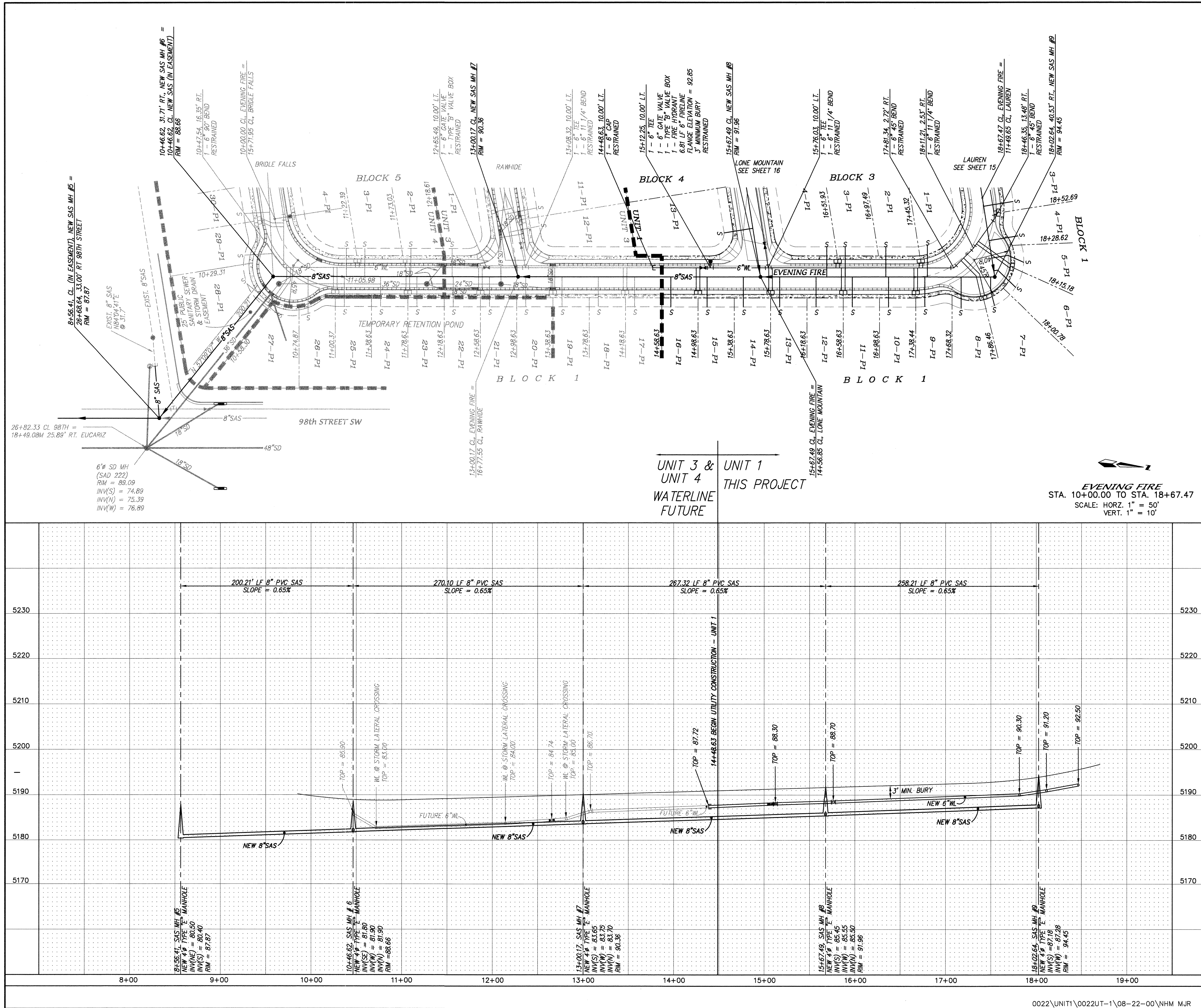
CITY ENGINEER
 SEP 14 2000
CITY ENGINEER

LAST DESIGN UPDATE

MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO. **645181** ZONE MAP NO. **L-8, L-9** SHEET **13** OF **20**

SCANNED BY
MESA REPRO



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

SANITARY SEWER SERVICES

BLOCK	LOT	STATION AT PUE	INV. ELEV. AT PUE	LENGTH AT PUE
1	3-P1	18+61.08	91.27	32.61'
1	4-P1	18+36.21	90.17	32.06'
1	5-P1	18+21.87	89.61	37.02'
1	6-P1	18+05.96	89.07	31.59'
1	7-P1	17+89.51	88.60	31.77'
1	8-P1	17+70.44	88.17	34.37'
1	9-P1	17+45.34	87.79	32.46'
1	10-P1	17+08.63	87.53	33.00'
1	11-P1	16+68.63	87.29	33.00'
1	12-P1	16+28.63	87.05	33.00'
1	13-P1	15+88.63	86.81	33.00'
1	14-P1	15+48.63	86.57	33.00'
1	15-P1	15+08.63	86.33	33.00'
1	16-P1	14+68.63	86.09	33.00'
1	17-P1	14+28.63	85.85	33.00'
1	18-P1	13+88.63	85.61	33.00'
1	19-P1	13+48.63	85.37	33.00'
1	20-P1	13+08.63	85.13	33.00'
1	21-P1	12+68.63	84.89	33.00'
1	22-P1	12+28.63	84.65	33.00'
1	23-P1	11+88.63	84.41	33.00'
1	24-P1	11+48.63	84.17	33.00'
1	25-P1	11+08.63	83.93	33.00'
1	26-P1	10+68.63	83.69	33.00'
1	27-P1	10+28.63	83.45	33.00'
1	28-P1	10+08.63	83.21	33.00'
1	29-P1	10+00.00	83.00	33.00'
3	1-P1	17+61.23	88.01	33.00'
3	2-P1	17+05.64	87.51	33.00'
3	3-P1	16+60.77	87.24	33.00'
3	4-P1	16+40.53	87.12	33.00'
3	5-P1	16+27.45	86.84	33.00'
5	2-P1	11+81.88	84.37	33.00'
5	3-P1	11+31.24	84.07	33.00'
5	4-P1	11+10.98	83.95	33.00'

EVENING FIRE
STA. 10+00.00 TO STA. 18+67.49
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)				
PIPE SIZE	90°	45°	22.5°	VALVE
6"	17'	7'	3'	46'
8"	22'	9'	4'	72'
10"	26'	11'	5'	72'

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

RESTRAINED JOINT LENGTH FOR TEES (FT.)		
PIPE SIZE	RUN	BRANCH
10"x10"x6"	6'	1'
8"x8"x6"	7'	2'
6"x6"x6"	10'	2'
6"x6"x6"	10'	2'

MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 80606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

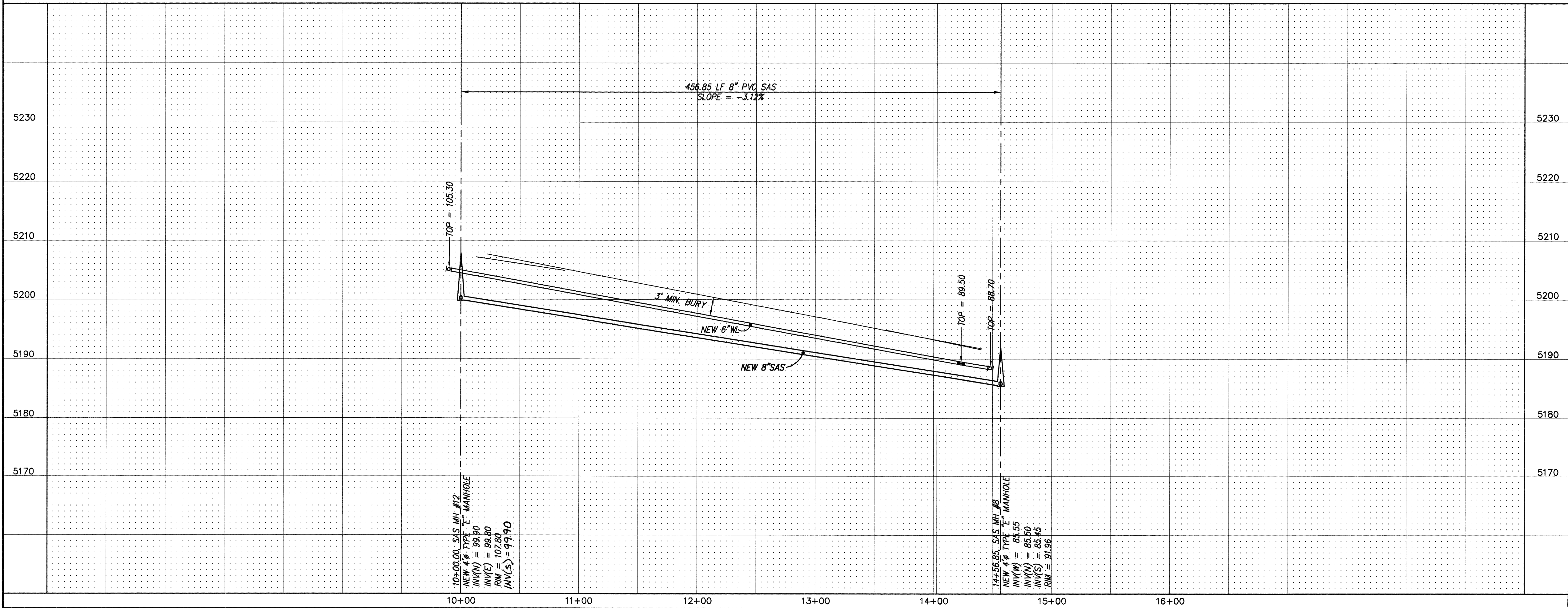
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **SUNRISE RANCH - UNIT 1
EVENING FIRE
UTILITY IMPROVEMENTS**

DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL
MO./DAY/YR.
MO./DAY/YR.

CITY PROJECT NO. **645181**
ZONE MAP NO. **L-8, L-9**
SHEET **14** OF **20**

SCANNED BY
MESA REPRO



LONE MOUNTAIN
STA. 10+00.00 TO STA. 14+56.85
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

NOTES
1. ALL STATIONING IS CENTERLINE STATIONING.

SANITARY SEWER SERVICES				
BLOCK	LOT	STATION AT PUE	INV. ELEV. AT PUE	LENGTH AT PUE
3	5-P1	13+37.96	90.64	32.00'
3	6-P1	12+97.96	92.16	32.00'
3	7-P1	12+57.96	93.68	32.00'
3	8-P1	12+17.96	94.70	32.00'
3	9-P1	11+77.96	95.71	32.00'
3	10-P1	11+37.96	97.23	32.00'
3	11-P1	10+97.96	98.75	32.00'
3	12-P1	10+57.96	200.67	32.00'
4	1-P1	10+39.06	200.98	35.82'
4	13-P1	14+02.80	88.20	32.00'
4	14-P1	13+43.20	90.45	32.00'
4	15-P1	13+03.20	91.96	32.00'
4	16-P1	12+63.20	93.48	32.00'
4	17-P1	12+23.20	95.00	32.00'
4	18-P1	11+83.20	96.01	32.00'
4	19-P1	11+43.20	97.03	32.00'

RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)					
PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
6"	17'	7'	3'	2'	46'
8"	22'	9'	4'	2'	72'
10"	26'	11'	5'	3'	72'

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

RESTRAINED JOINT LENGTH FOR TEES (FT.)		
PIPE SIZE	RUN	BRANCH
10"x10"x6"	6'	1'
8"x8"x6"	7'	2'
6"x6"x6"	10'	2'
6"x6"x6"	10'	2'

dmg MARK GOODWIN & ASSOCIATES, P.A.
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP
TITLE: **SUNRISE RANCH - UNIT 1
LONE MOUNTAIN
UTILITY IMPROVEMENTS**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED SEP - 7 2000 DESIGN REVIEW COMMITTEE	APPROVED SEP 14 2000 CITY ENGINEER			

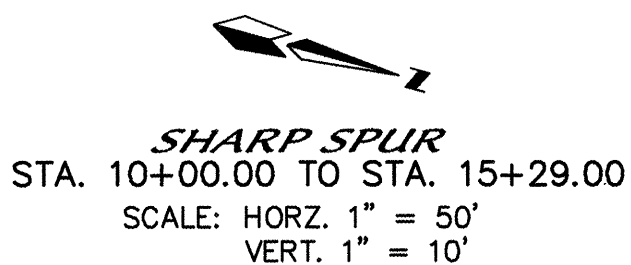
CITY PROJECT NO. **645181** ZONE MAP NO. **L-8, L-9** SHEET **16** OF **20**

AS BUILT INFORMATION
CONTRACTOR **FRANKLIN**
WORK STAGED BY **ALS** DATE **00**
FIELD ACCEPTANCE BY **ALS** DATE **00**
DRAWINGS BY **ALS** DATE **00**
CORRECTED BY **ALS** DATE **00**
MICRO-FILM INFORMATION
RECORDED BY
NO.

BENCH MARKS
ACS MONUMENT "9-19". THE STATION IS LOCATED 5.3 MILES
SOUTHWEST OF DOWNTOWN ALBUQUERQUE. TO REACH THE STATION
FROM THE INTERSECTION OF I-40 AND 98TH ST., TRAVEL SOUTH ON
98TH ST. 1.3 MILES TO THE STATION ON THE LEFT. THE STATION IS
49.2' EAST OF THE CENTERLINE OF 98TH ST. AND IS 0.13 MILES
NORTH OF RYMO CT, S.W.
THE STATION IS AN ACS 3 1/4" ALUM. CAP RIVETED TO A PIPE
0.25' ABOVE GROUND AND IS STAMPED "9-L9, 1089".
X = 353,055.34 Y = 1,480,156.08 ELEV. = 5187.036

ENGINEER'S SEAL
MARK HOELZER
NEW MEXICO
10887
REGISTERED PROFESSIONAL ENGINEER
2271-00

REVISIONS
NO. DATE REMARKS
BY
DESIGNED BY **DLH** DATE **07/00**
DRAWN BY **MJR** DATE **07/00**
CHECKED BY **DMG** DATE **07/00**



SANITARY SEWER SERVICES				
BLOCK	LOT	STATION AT PUE	INV. ELEV. AT PUE	LENGTH AT PUE
4	2-P1	11+68.35	201.31	32.00'
4	3-P1	11+25.35	200.54	32.00'
4	4-P1	10+82.35	200.36	32.00'
4	5-P1	10+62.35	198.42	32.00'
6	1-P1	14+77.16	205.83	32.00'
6	2-P1	14+37.16	205.11	32.00'
6	3-P1	13+97.16	204.40	32.00'
6	4-P1	13+57.16	203.68	32.00'
6	5-P1	13+17.16	202.16	32.00'
6	6-P1	12+77.16	203.26	32.00'
6	7-P1	12+57.16	202.90	32.00'
6	8-P1	11+97.16	201.83	32.00'
6	9-P1	11+57.16	201.11	32.00'
6	10-P1	11+17.16	199.90	32.00'
6	11-P1	10+77.16	198.68	32.00'
6	12-P1	10+57.16	198.33	32.00'

RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)					
PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
6"	17'	7'	3'	2'	46'
8"	22'	9'	4'	2'	72'
10"	26'	11'	5'	3'	72'

RESTRAINED JOINT LENGTH FOR TEES (FT.)		
PIPE SIZE	RUN	BRANCH
10"x10"x6"	6'	1'
8"x8"x6"	7'	2'
6"x6"x6"	10'	2'
6"x6"x6"	10'	2'

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT

TITLE: *SUNRISE RANCH - U
SHARP SPUR
UTILITY IMPROVEM*

DESIGN REVIEW COMMITTEE

APPROVED

SEP - 7 2000

DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

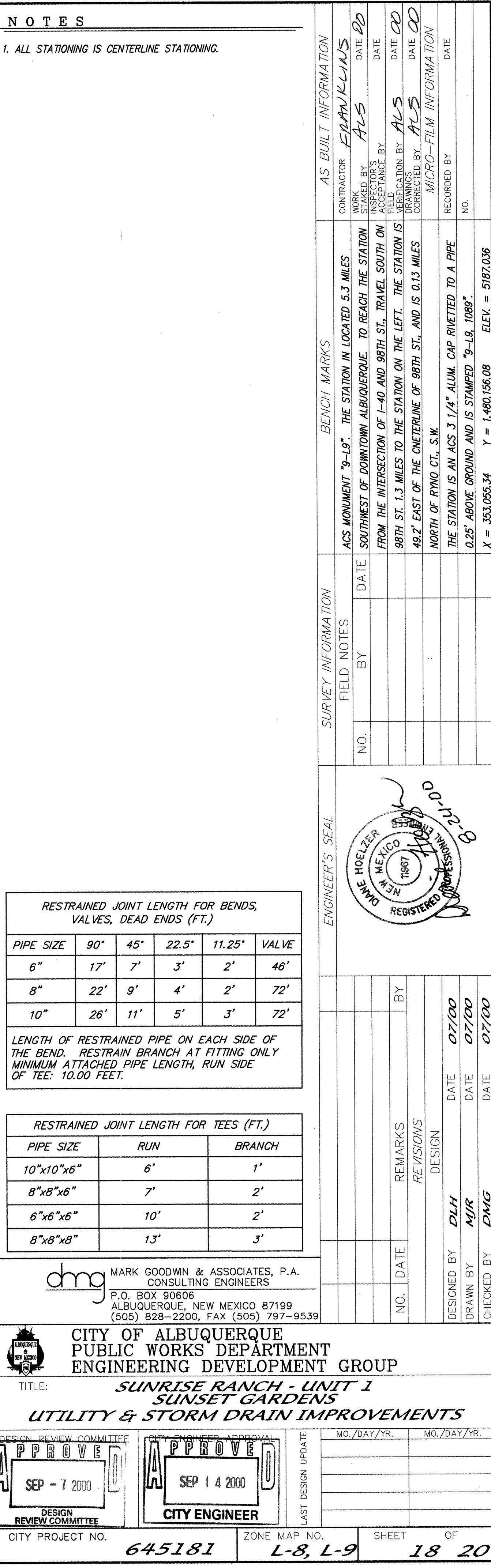
APPROVED

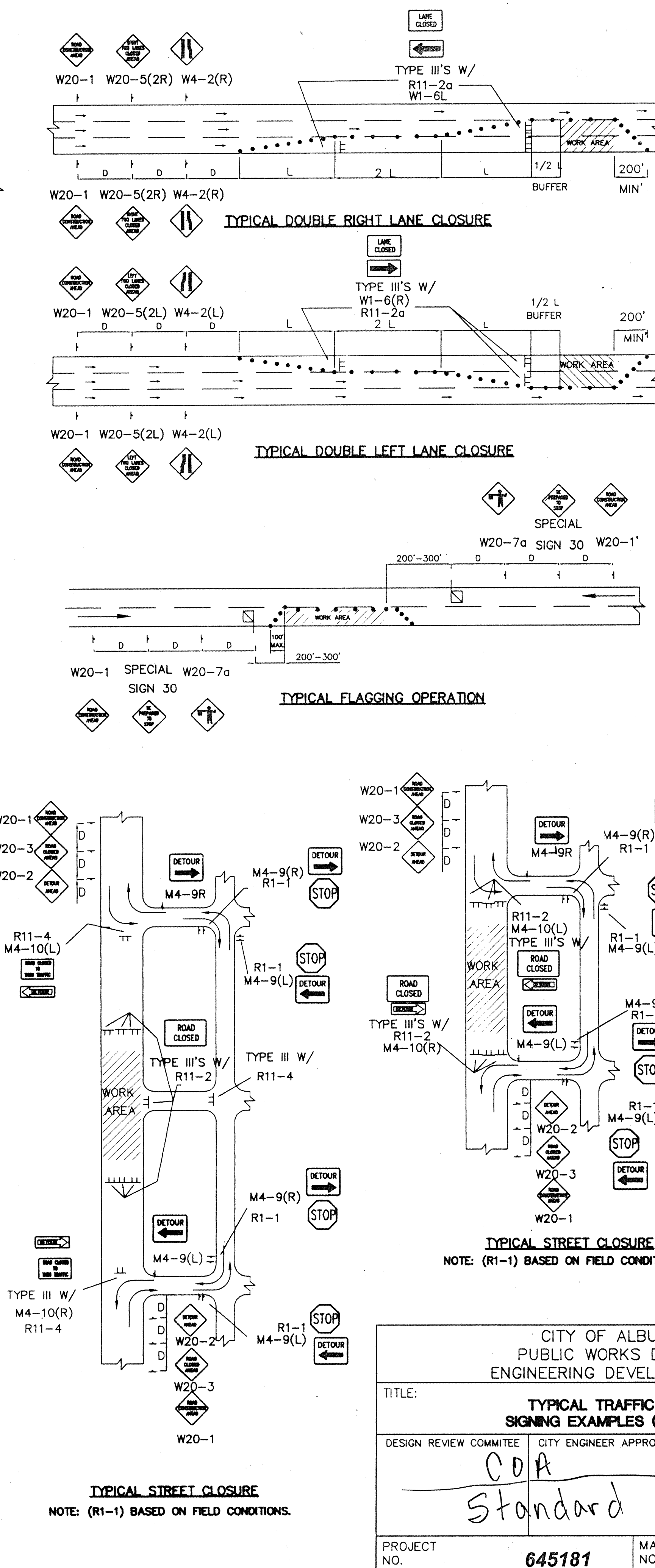
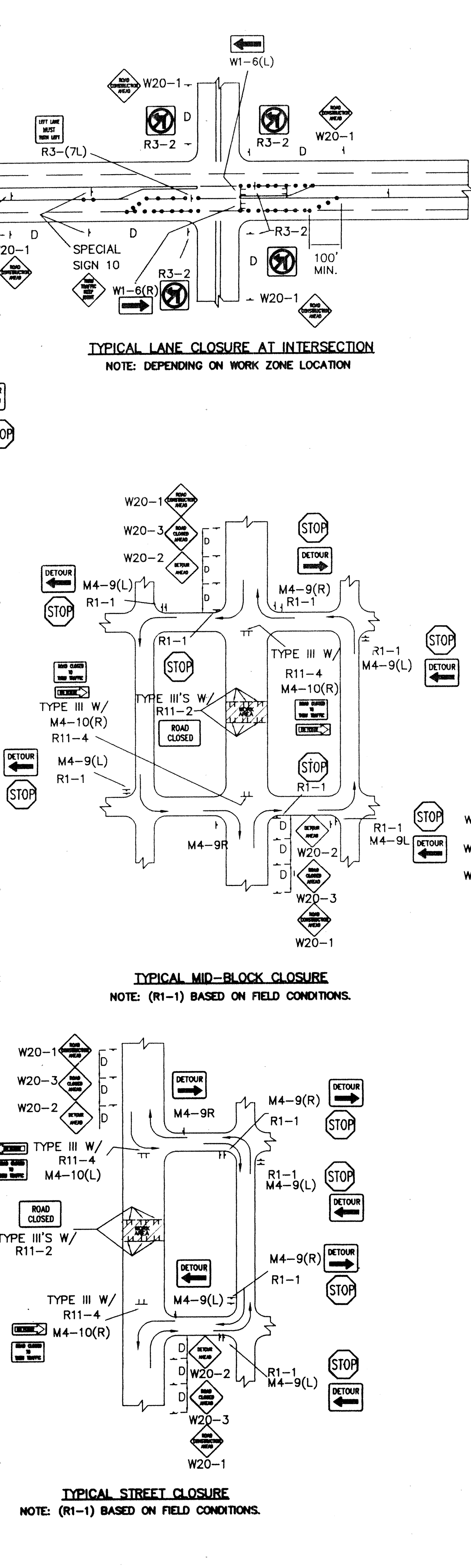
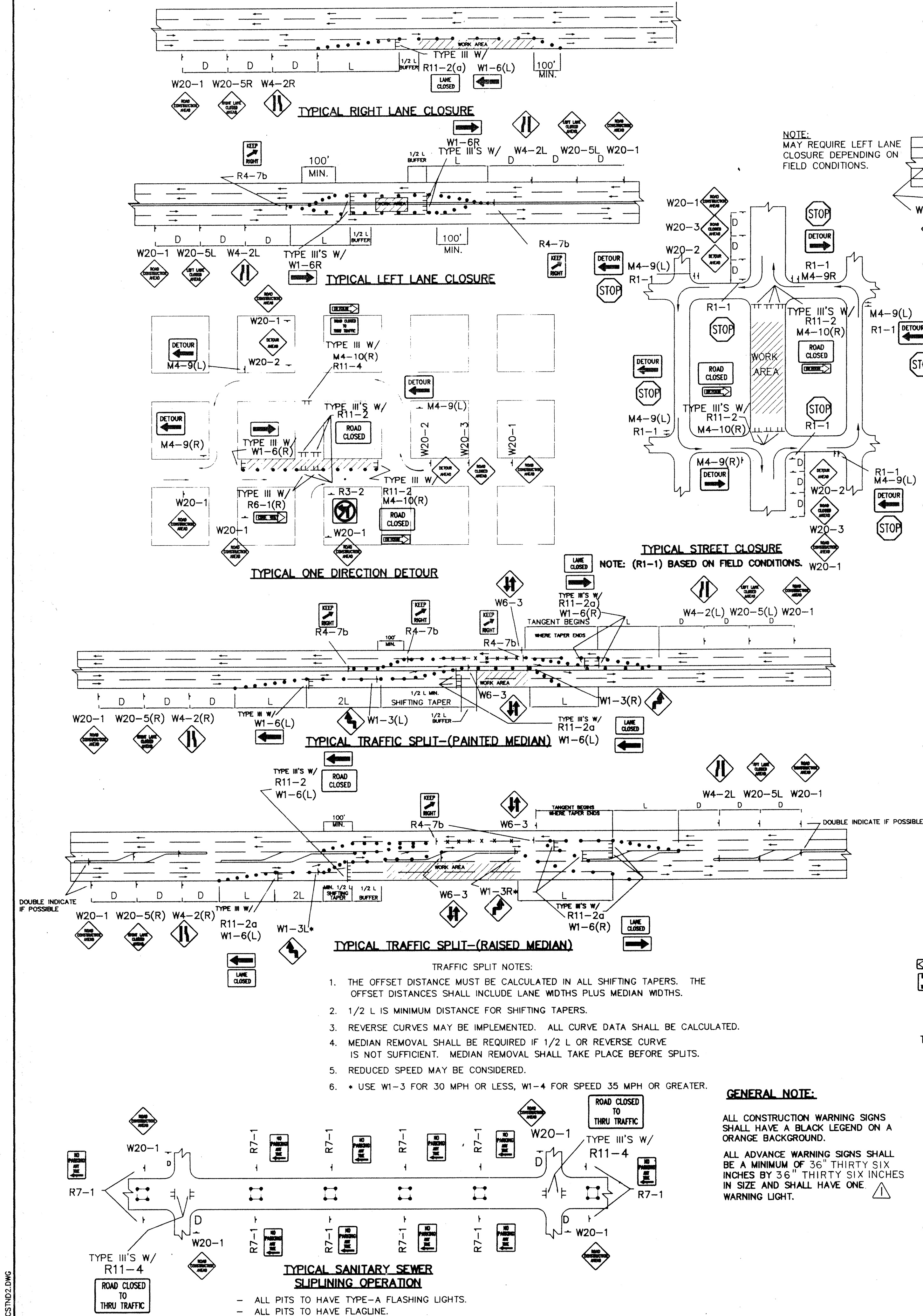
SEP 14 2000

CITY ENGINEER

LAST DESIGN UPDATE

[illegible]





AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE		
WORK BY	DATE	FIELD NOTES		REVISIONS		DESIGNED BY: _____ DATE: _____ DRAWN BY: _____ DATE: _____ CHECKED BY: _____ DATE: _____	
ACCEPTANCE BY	DATE	J.D.L. BY		REMARKS		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.) DESIGN REVIEW COMMITTEE: _____ CITY ENGINEER APPROVAL: _____ LAST UPDATE: _____ PROJECT NO. 645181 MAP NO. L-8/9 SHEET 19 OF 20	

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

- 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.
- 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.
- 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.
- CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24-HOUR PER DAY BASIS UNTIL COMPLETED.
- 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.
- 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.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.
- CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.
- 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.
- 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.
- 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.
- 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:
- STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
 - THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
 - SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

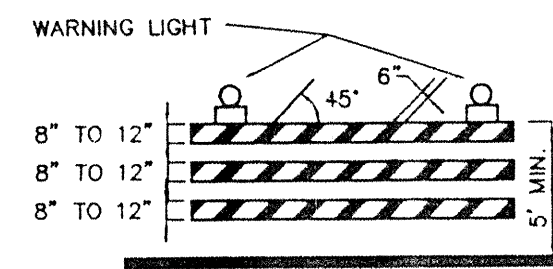
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

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

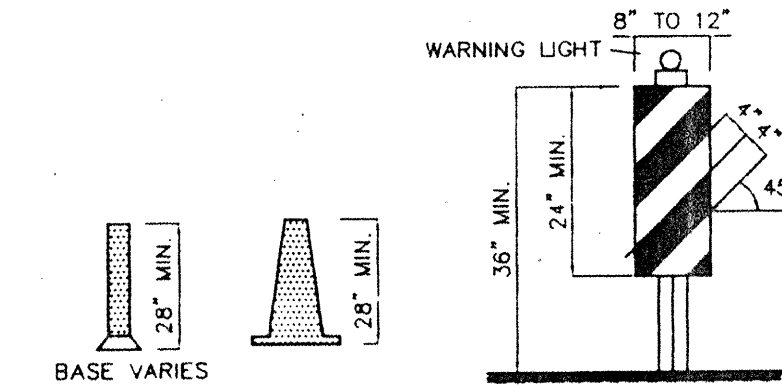
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" 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. 

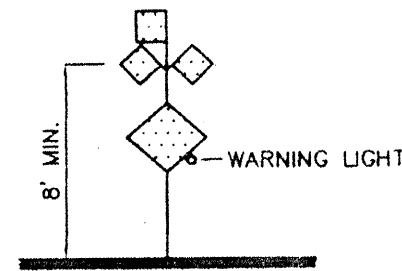
27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY. 



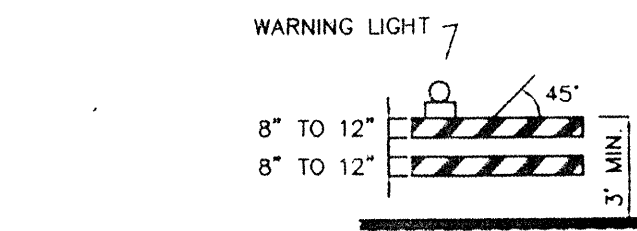
TYPE III BARRICADE



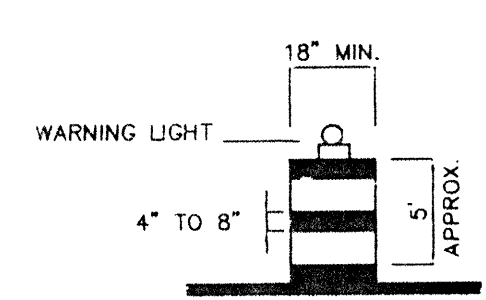
VERTICAL PANEL



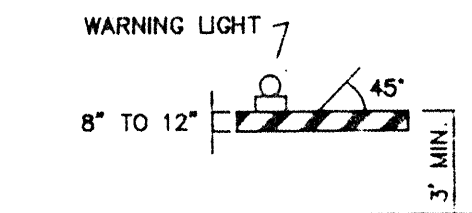
HIGH LEVEL WARNING DEVICE



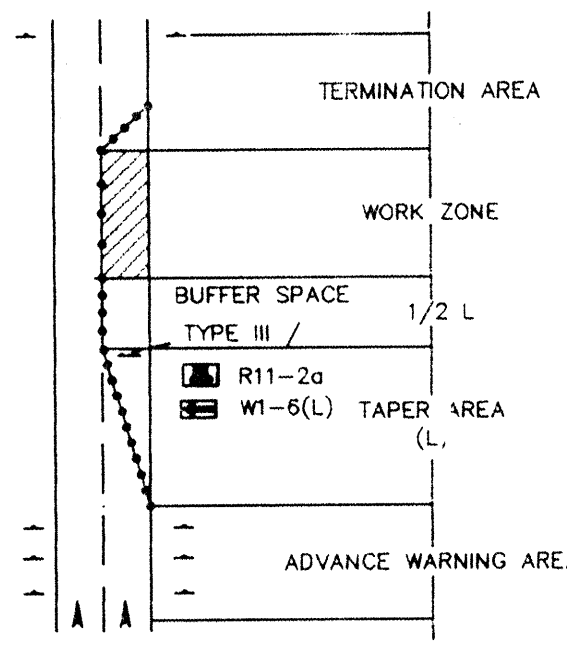
TYPE II BARRICADE



BARREL



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

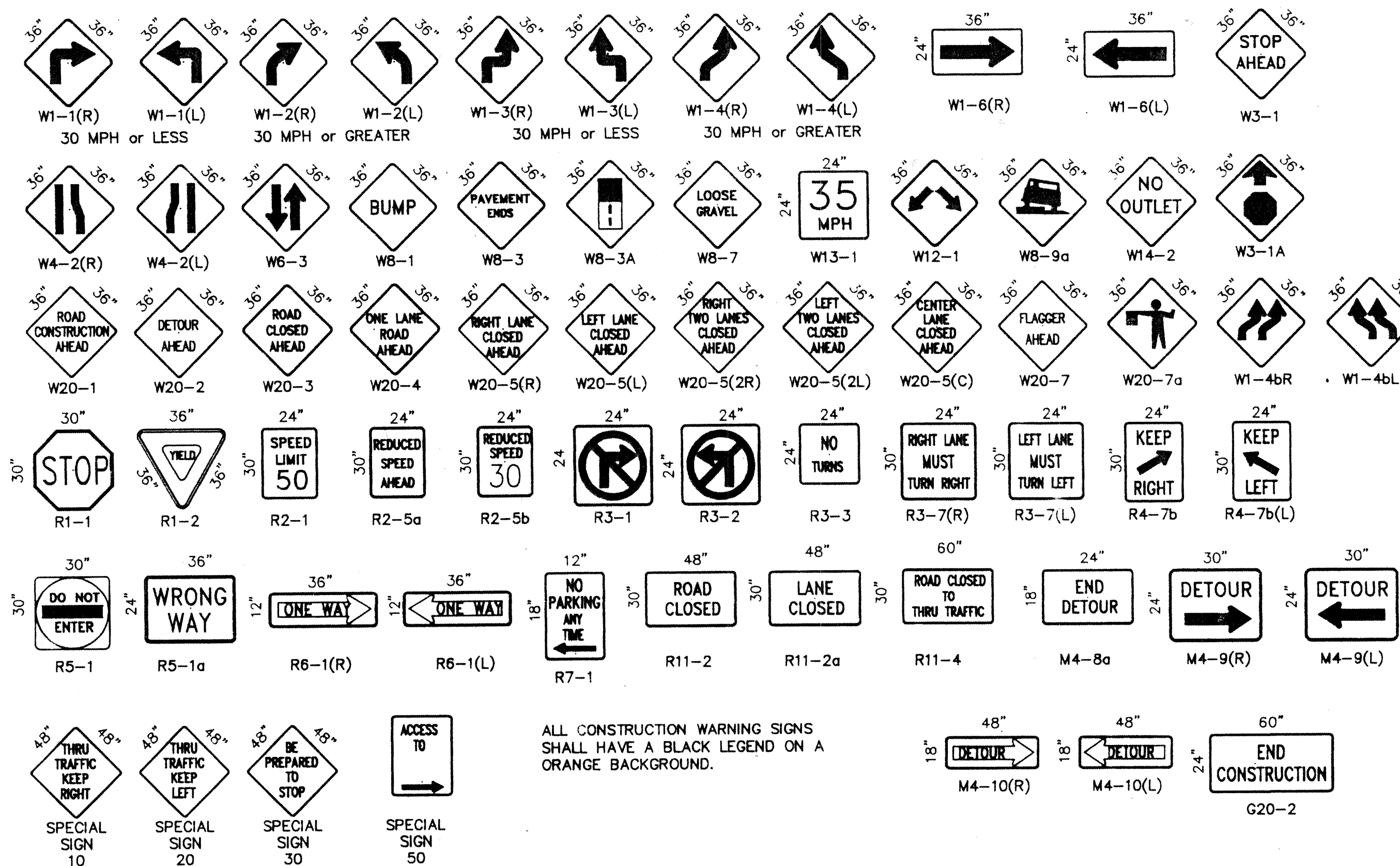
TAPER CRITERIA

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	
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.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	BY	NO.	BY	J.D.L.	J.D.L.
WORK	DATE	NO.	BY	NO.	BY	J.D.L.	J.D.L.
REVISION	DATE	NO.	BY	NO.	BY	J.D.L.	J.D.L.
ACCEPTANCE BY	DATE	NO.	BY	NO.	BY	J.D.L.	J.D.L.
VERIFICATION BY	DATE	NO.	BY	NO.	BY	J.D.L.	J.D.L.
DRAWINGS	DATE	NO.	BY	NO.	BY	J.D.L.	J.D.L.
CONSTRUCTION	DATE	NO.	BY	NO.	BY	J.D.L.	J.D.L.
MICRO-FILM INFORMATION	DATE	NO.	BY	NO.	BY	J.D.L.	J.D.L.
DESIGNED BY		DRAWN BY		C.O.A. STANDARDS		CHECKED BY	
DATE		DATE		DATE		DATE	

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR	MO./DAY/YR

PROJECT NO. **645181** MAP NO. **L-8/9** SHEET **20** OF **20**