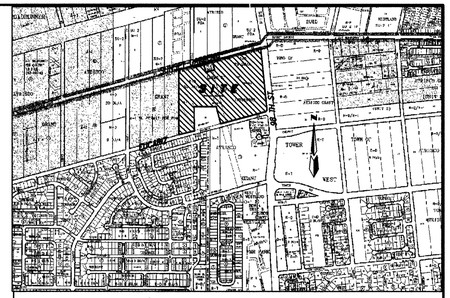
CONSTRUCTION PLANS

FOR

SUNRISE RANCH

UNIT 2

ALBUQUERQUE, NEW MEXICO



VICINITY MAP — ZONE ATLAS L-8 & L-9

SCALE: NONE

GENERAL NOTES

NOTICE TO CONTRACTORS

1. CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED THROUGH UPDATE 6, WILL BE REFERRED TO HEREIN AS THE "STANDARD SPECIFICATIONS".
2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) AND DETERMINE LOCATION OF EXISTING UTILITIES.
3. 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.
4. ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC., WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RE-SET BY THE CONTRACTOR.
5. 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.
6. 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.
7. 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.
8. ANY WORK OCCURRING WITHIN AN ARTERIAL ROADWAY REQUIRES 24 HOURS CONSTRUCTION.

APPROVAL OF RECORD DRAWINGS
CHIEF CONSTRUCTION ENGINEER
DATE 3/8/02

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- [x] ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- [x] BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- [ ] TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- [x] 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.
- [x] ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

DRB #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) 797-9539

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
1	17	Fred Rogers	2-27-01	Dave Shrieve	2/27/01		

ENGINEERS STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE
DIANE HOELZER NEW MEXICO 11967 REGISTERED PROFESSIONAL ENGINEER 10-18-00 Rev 11-5-00	DRC CHAIRMAN		11/29/00
	TRANSPORTATION	Bradley L. Bingham	11-16-00
	WATER/WASTEWATER	Bradley L. Bingham	11-16-00
	HYDROLOGY	Bradley L. Bingham	11-16-00
	CIP		
	CONSTR. MNGMT.		
	CONSTR. COORD.		11/29/00

APPROVED FOR CONSTRUCTION

12/14/00
CITY ENGINEER DATE

CITY PROJECT NO. 645281

SHEET 1 OF 20

INDEX TO DRAWINGS

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.

10-16-01

Timothy Aldrich P.S. No. 7719 — Date

RECORD DRAWING

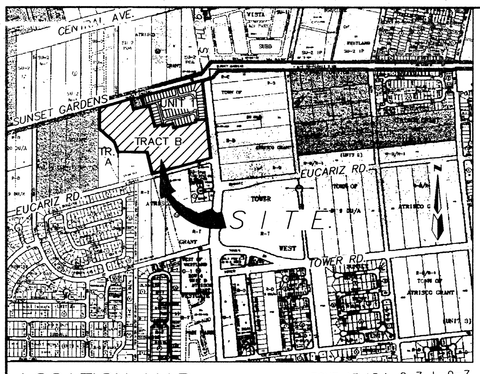
I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Franklin's Earthmoving, and by the surveyor, Aldrich Land Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

3/27/01

Mark Goodwin NMPE 8948

D. MARK GOODWIN NEW MEXICO 8948 REGISTERED PROFESSIONAL ENGINEER

0022\UNIT2\U2-TITLE\10-13-00\ MJR



LOCATION MAP

ZONE ATLAS L-8-Z, L-9-Z

SCALE: NONE

SUBDIVISION DATA

PLAT CASE NOS. ..... PROJECT. 1000301
APPLICATION 00440-00000-01393

GROSS ACREAGE	18.4112
ZONE ATLAS NO.	L-8-Z, L-9-Z
NO. OF EXISTING TRACTS/LOTS	1 TRACT
NO. OF TRACTS/LOTS CREATED	60 LOTS & 1 TRACT
NO. OF TRACTS/LOTS ELIMINATED	1 TRACT
MILES OF FULL WIDTH STREETS CREATED	0.30
AREA DEDICATED TO CITY OF ALBUQUERQUE	1.9616 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 right-of-ways shown hereon to the City of Albuquerque in fee simple with warranty covenants 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 of the foregoing and do hereby certify that this subdivision is their free act and deed.

8-1-00
DATE

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

OWNER'S ACKNOWLEDGMENT

STATE OF NEW MEXICO }
COUNTY OF BERNALILLO } ss

This instrument was acknowledged before me on August 1, 2000 by Paul White, Jr. Vice President, 98th Street Ltd. Co. a New Mexico Corporation on behalf of said Corporation.

Sandie Ann Firestone 10-04-03
NOTARY PUBLIC MY COMMISSION EXPIRES

OFFICIAL SEAL
SANDIE ANN FIRESTONE
NOTARY PUBLIC-NEW MEXICO
My Commission Expires 10-4-03

LEGAL DESCRIPTION

(SEE SHEET 2)

NOTES

(SEE SHEET 2)

PURPOSE OF PLAT

SUBDIVIDE EXISTING TRACT B, SUNRISE RANCH, UNIT 1, INTO 60 RESIDENTIAL LOTS AND TRACT B-1.

GRANT NEW EASEMENTS AS SHOWN

DEDICATE NEW RIGHT-OF-WAY AS SHOWN

SCANNED BY
MESA REPRO

PLAT FOR

SUNRISE RANCH UNIT 2

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

APPROVED AND ACCEPTED BY:

APPROVAL AND CONDITIONAL ACCEPTANCE as specified by the Albuquerque Subdivision Ordinance, Article XI of Chapter 7 of the Revised Ordinances of Albuquerque, New Mexico.

Subdivision Case No. _____

Planning Director, City of Albuquerque, N.M. — Date

City Engineer, City of Albuquerque, N.M. — Date 11/15/00

Albuquerque Metropolitan Arroyo Flood Control Authority — Date 10-11-00

Transportation Development, City of Albuquerque, N.M. — Date 10/11/00

Utility Development Division, City of Albuquerque, N.M. — Date 10/11/00

Parks and Recreation, City of Albuquerque, N.M. — Date 8-15-2000

City Surveyor, City of Albuquerque, N.M. — Date

Property Management, City of Albuquerque, N.M. — Date 9-27-00

PNM GAS — Date 08/14/00

Qwest Telecommunications — Date 9-27-00

PNM ELECTRIC — Date 8/14/00

Comcast Cable — Date

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."

08-14-00
TIMOTHY ALDRICH, P.S. No. 7719 — DATE

dwg: unit2sheet1	Drawn: SPS	Checked: ALS	Sheet 1 of 5
Scale: 1"=50'	Date: 7-28-00	Job: A0022	

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 B, SUNRISE RANCH, UNIT 1 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 September 9, 2000 in Volume 2000C, Folio 228 and containing 18.4112 acres more or less.

NOTES

1. Bearings are New Mexico State Plane Grid Bearings (Central Zone).
2. Distances are ground distances.
3. Bearings and distances in parenthesis are record.
4. Basis of boundary are the following plats of record entitled:

   SUNRISE RANCH, UNIT 1 (09-06-00, 2000C-228)

   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.
5. Field Survey performed January, 1997.
6. Utility Council Location System Log No. 97012813220341
7. Title Report: None provided
8. All property corners are set 5/8" rebar with cap "ALS LS 7719", unless otherwise noted.
9. City of Albuquerque Zoning: R-D, 20 DU/A.
10. Flood Zone Designation: ZONE C (areas of minimal flooding), and ZONE AO (areas of 100 year shallow flooding), depths 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.
11. Sunset Gardens Road is a Private Road and is apparently owned by WESTLAND DEVELOPMENT COMPANY.
12. 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

PLAT FOR

SUNRISE RANCH UNIT 2

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

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. Qwest 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. Jones Intercable for the installation, maintenance, and service of such lines, cable, and other related equipment and facilities reasonably necessary to provide Cable TV services.

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 of subsurface), hot tub, concrete or wood pool decking, or other structure shall be erected or constructed on said easements, nor shall any well be drilled or operated thereon. Property owners shall be solely responsible for correcting any violations 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: unit2sheet2	Drawn: SPS	Checked: ALS	Sheet 2 of 5
Scale: 1"=200'	Date: 07-18-00	Job: A00022	

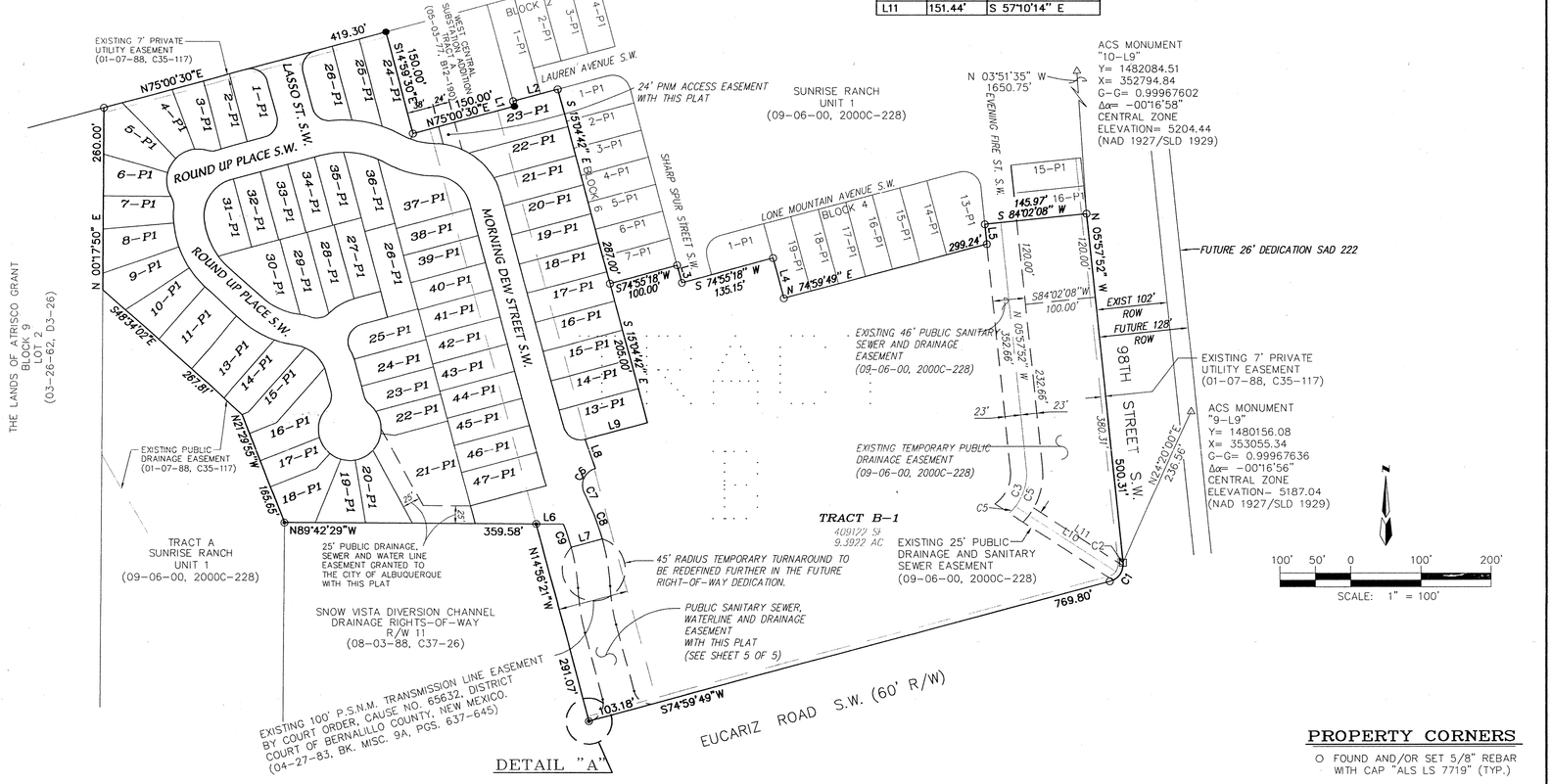
NUMBER	R = '	L = '	D =	T = '	CH BEARIN=	CHORD LE='
C1	25.00	35.33	80°57'41"	21.34	N 34°30'58" E	32.46
C2	25.00	4.46	10°13'26"	2.24	N 00°51'08" W	4.46
C3	75.00	70.75	54°03'09"	38.26	N 21°03'42" E	68.16
C4	75.00	58.03	44°19'56"	30.56	N 16°12'05" E	56.59
C4	75.00	58.03	44°19'56"	30.56	S 16°12'05" W	56.59
C5	75.00	12.72	09°43'13"	6.38	S 43°13'40" W	12.71
C6	25.00	43.24	99°05'25"	29.32	N 25°27'06" E	38.05
C7	323.00	11.61	02°03'37"	5.81	N 25°07'25" W	11.61
C8	323.00	60.01	10°38'44"	30.09	S 20°49'52" E	59.93
C9	277.00	35.23	07°17'16"	17.64	S 19°14'10" E	35.21

SCANNED BY
MESA REPRO

NUMBER	DISTANCE	DIRECTION
L1	7.66'	S 15°00'09" E
L2	64.99'	S 74°59'49" W
L3	25.81'	N 15°04'42" W
L4	59.51'	N 15°04'42" W
L5	28.47'	N 05°54'50" W
L6	37.73'	S 89°42'28" E
L7	46.00'	N 74°59'49" E
L8	44.16'	N 19°51'11" W
L9	92.05'	N 74°59'49" E
L10	177.69'	S 57°10'14" E
L11	151.44'	S 57°10'14" E

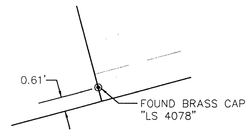
PLAT FOR
SUNRISE RANCH UNIT 2

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



PROPERTY CORNERS

- ○ FOUND AND/OR SET 5/8" REBAR WITH CAP "ALS LS 7719" (TYP.)
- ◉ FOUND BRASS CAP " LS 4078" (TYP.)
- ● FOUND 5/8" REBAR (TYP.)
- □ FOUND 5/8" REBAR WITH CAP "LS 3241" (TYP.)



DETAIL "A"
NOT TO SCALE

dwg: unit2sheet3	Drawn: SPS	Checked: ALS	Sheet 3 of 5
Scale: 1"=100'	Date: 07-28-00	Job: A00022	

CURVE TABLE (THIS SHEET ONLY)

NUMBER	RADIUS	DELTA	LENGTH	TAN	BEARING	DISTANCE
C8	52.00	74°50'48"	67.93	39.79	N52°26'24"W	63.20
C9	143.00	28°42'23"	71.65	36.59	N75°30'37"W	70.90
C10	127.00	43°50'04"	97.16	51.10	N83°04'28"W	94.81
C11	75.00	74°50'48"	97.97	57.39	N52°26'24"W	91.16
C12	120.00	28°42'23"	0.12	30.71	N75°30'37"W	59.50
C13	150.00	43°50'04"	114.76	60.35	N83°04'28"W	111.98
C14	98.00	74°50'48"	128.02	74.99	N52°26'24"W	119.11
C15	97.00	28°42'23"	48.60	24.82	N75°30'37"W	48.09
C16	173.00	34°56'45"	105.52	54.46	N78°37'48"W	103.89
C17	25.00	81°06'41"	35.39	21.39	N55°32'50"W	32.51
C18	25.00	90°00'00"	39.27	25.00	N33°00'30"E	35.36
C19	25.00	90°00'00"	39.27	25.00	N59°59'30"W	35.36
C20	25.00	90°00'00"	39.27	25.00	N30°00'30"E	35.36
C21	127.00	06°16'07"	13.89	6.95	N64°17'29"W	13.89
C22	127.00	22°47'16"	50.51	25.59	N78°49'11"W	50.18
C23	127.00	14°46'41"	32.76	16.47	N82°23'51"E	32.67
C24	173.00	09°51'22"	29.76	14.92	N88°49'30"E	29.72
C25	173.00	14°47'55"	44.68	22.47	N78°50'52"W	44.56
C26	173.00	10°17'29"	31.07	15.58	N66°18'10"W	31.03
C27	97.00	08°13'16"	13.92	6.97	N65°16'04"W	13.91
C28	97.00	20°29'06"	34.68	17.53	N79°37'15"W	34.50
C29	98.00	30°04'12"	51.43	26.32	N74°49'42"W	50.84
C30	98.00	29°21'35"	50.22	25.67	N45°06'49"W	49.67
C31	98.00	15°25'02"	26.37	13.27	N22°43'31"W	26.29
C32	52.00	76°43'40"	69.64	41.16	N36°38'41"E	64.55
C33	75.00	76°24'31"	100.02	59.03	N36°48'15"E	92.77
C34	98.00	04°48'26"	8.22	4.11	N72°36'17"E	8.22
C35	25.00	36°29'27"	15.92	8.24	N88°26'48"E	15.65
C36	45.00	138°15'59"	108.59	118.05	N37°33'32"E	84.10
C37	25.00	37°13'54"	16.25	8.42	N12°57'31"W	15.96
C38	97.00	07°03'30"	11.95	5.98	N02°07'41"E	11.94
C39	98.00	01°39'42"	2.84	1.42	N74°10'39"E	2.84
C40	98.00	03°08'44"	5.38	2.69	N71°46'26"E	5.38
C41	45.00	22°42'30"	17.84	9.04	N84°39'44"W	17.72
C42	45.00	39°21'30"	30.91	16.09	N64°18'16"E	30.31
C43	45.00	29°55'27"	23.50	12.03	N29°39'48"E	23.24
C44	45.00	45°04'06"	35.40	18.67	N07°49'59"W	34.49
C45	45.00	01°12'26"	0.95	0.47	N30°58'15"W	0.95
C46	75.00	36°46'02"	48.13	24.93	N56°37'29"E	47.31
C47	75.00	39°38'28"	51.89	27.03	N18°25'14"E	50.86
C48	98.00	46°50'53"	80.13	42.46	N25°08'36"W	77.92
C49	120.00	47°09'36"	98.77	52.38	N24°59'14"W	96.01
C50	142.00	47°09'38"	116.88	61.98	N24°59'13"W	113.61
C51	142.00	03°58'34"	9.85	4.93	N03°23'41"W	9.85
C52	142.00	14°06'09"	34.95	17.56	N12°26'03"W	34.86
C53	142.00	13°32'33"	33.56	16.86	N26°15'23"W	33.49
C54	142.00	14°01'32"	34.76	17.47	N40°02'26"W	34.67
C55	142.00	01°30'50"	3.75	1.88	N47°48'37"W	3.75
C56	98.00	36°21'58"	62.20	32.19	N19°54'08"W	61.16
C57	98.00	10°28'55"	17.93	8.99	N43°19'35"W	17.90
C58	98.00	33°49'04"	57.84	29.79	N65°28'34"W	57.01
C59	97.00	10°43'18"	18.15	9.10	N77°01'27"W	18.13
C60	25.00	61°12'41"	26.71	14.79	N77°43'52"E	25.46
C61	94.00	27°52'59"	45.75	23.34	N61°04'01"E	45.30
C62	75.00	53°23'09"	69.88	37.71	N48°18'56"E	67.38
C63	25.00	95°56'35"	41.86	27.74	N19°56'46"E	37.14
C64	97.00	12°47'42"	21.66	10.88	N21°37'40"W	21.62
C65	25.00	35°29'00"	15.48	8.00	N32°58'18"W	15.24
C66	45.00	25°46'20"	20.24	10.29	S86°49'56"E	20.07
C67	25.00	58°05'28"	25.35	13.88	N13°48'55"E	24.28
C68	53.00	67°09'18"	62.12	35.18	N48°48'27"W	58.62
C69	142.00	33°49'04"	83.81	43.17	N65°28'34"W	82.60
C70	120.00	33°49'04"	70.83	36.48	N65°28'34"W	69.80
C71	75.00	67°09'18"	87.91	49.79	N48°48'27"W	82.96
C72	97.00	00°54'47"	1.55	0.77	N81°55'43"W	1.55
C73	97.00	09°48'31"	16.61	8.32	N76°34'04"W	16.59
C74	94.00	25°34'23"	41.96	21.33	N59°54'43"E	41.61
C75	94.00	02°18'36"	3.79	1.90	N73°51'12"E	3.79
C76	97.00	08°27'02"	14.31	7.17	N23°48'00"W	14.29
C77	97.00	04°20'41"	7.36	3.68	N17°24'09"W	7.35
C78	45.00	16°38'16"	13.07	6.58	N42°23'40"W	13.02
C79	45.00	41°58'42"	32.97	17.26	N13°05'11"W	32.24
C80	45.00	34°23'52"	27.02	13.93	N25°06'08"E	26.61
C81	45.00	37°58'48"	29.83	15.49	N61°17'30"E	29.29
C82	45.00	22°57'04"	18.03	9.14	N62°28'14"W	17.91
C83	45.00	35°34'20"	27.94	14.44	N33°12'33"W	27.49
C84	45.00	58°17'02"	45.78	25.09	N13°43'08"E	43.83
C85	53.00	06°32'06"	6.04	3.03	N18°29'51"W	6.04

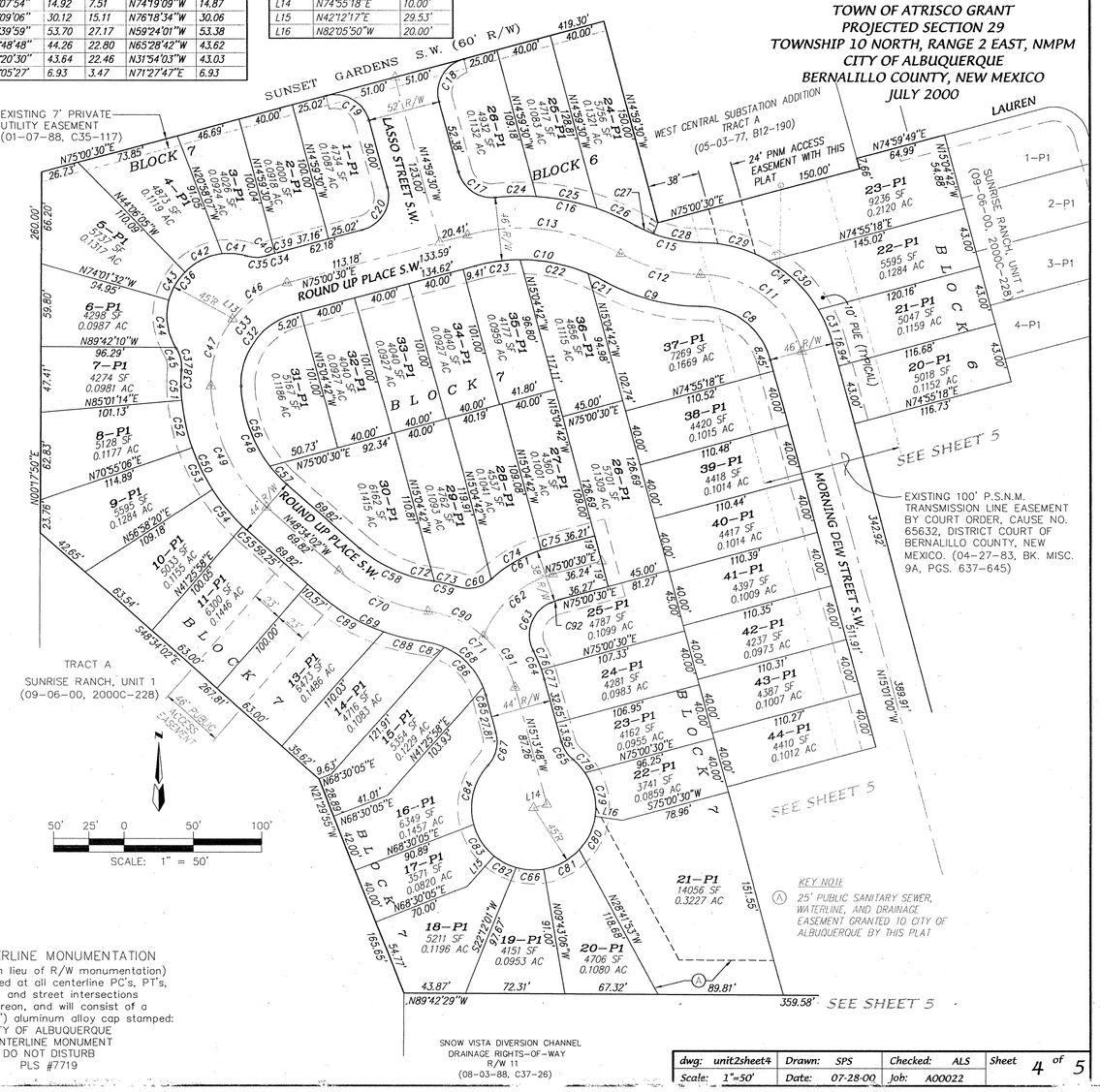
LINE TABLE (This sheet only.)

NUMBER	DIRECTION	DISTANCE
L11	N20°37'18"E	8.73'
L13	N51°45'32"W	3.64'
L14	N74°55'18"E	10.00'
L15	N42°12'17"E	29.53'
L16	N82°05'50"W	20.00'

NOTE: THERE IS A 10' PRIVATE DRAINAGE EASEMENT CENTERED ON ALL INTERIOR SIDE LOT LINES. (SEE TYPICAL LOT DETAIL SHEET 5)

PLAT FOR
SUNRISE RANCH UNIT 2

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



△ CENTERLINE MONUMENTATION
Centerline (in lieu of R/W monumentation) to be installed at all centerline PC's, PT's, angle points, and street intersections as shown hereon, and will consist of a four inch (4") aluminum alloy cap stamped:
CITY OF ALBUQUERQUE
CENTERLINE MONUMENT
DO NOT DISTURB
PLS #7719

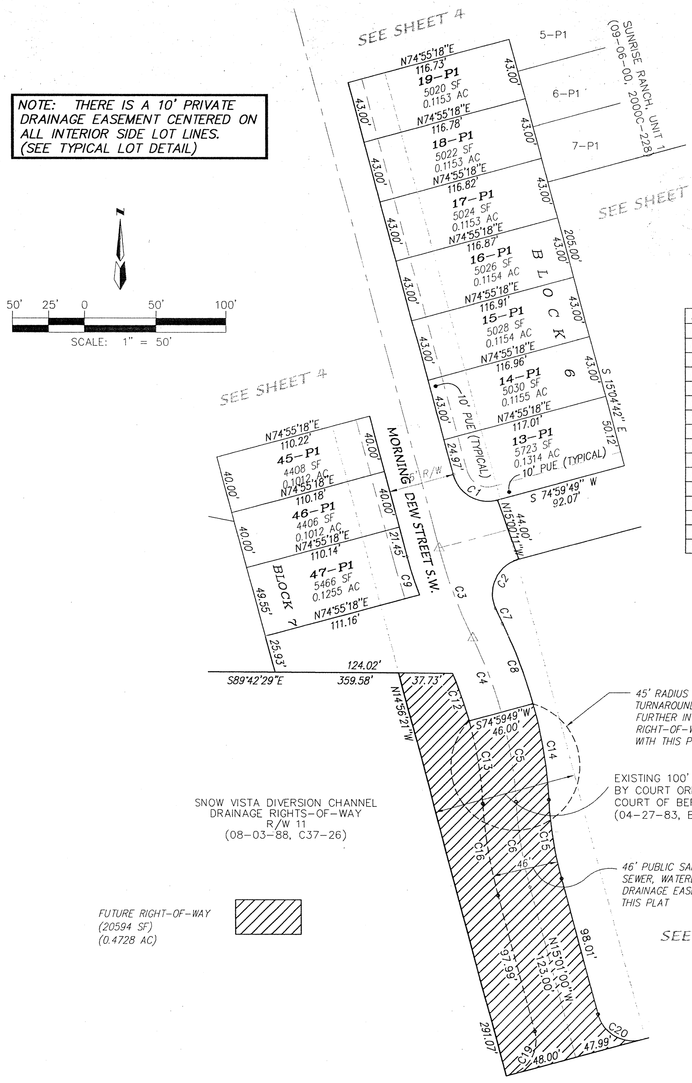
SNOW VISTA DIVERSION CHANNEL DRAINAGE RIGHTS-OF-WAY R/W 11 (08-03-88, C37-26)

dwg: unit2sheet4	Drawn: SPS	Checked: ALS	Sheet 4 of 5
Scale: 1"=50'	Date: 07-28-00	Job: A00022	

PLAT FOR
SUNRISE RANCH UNIT 2

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

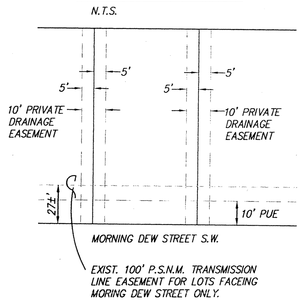
NOTE: THERE IS A 10' PRIVATE DRAINAGE EASEMENT CENTERED ON ALL INTERIOR SIDE LOT LINES. (SEE TYPICAL LOT DETAIL)



NUMBER	R = '	L = '	D =	T = '	CH BEARIN=	CHORD LE='
C1	25.00	39.26	89°59'12"	24.99	S 60°00'36" E	35.35
C2	25.00	43.24	99°05'25"	29.32	N 25°27'06" E	38.05
C3	346.00	67.26	11°08'14"	33.73	N 20°35'07" W	67.15
C4	300.00	55.53	10°36'22"	27.85	N 20°51'02" W	55.45
C5	300.00	63.30	12°05'22"	31.77	N 09°30'10" W	63.18
C6	300.00	60.52	11°33'30"	30.36	S 09°14'15" E	60.42
C7	323.00	11.61	02°03'37"	5.81	S 25°07'25" E	11.61
C8	323.00	60.00	10°38'38"	30.09	N 20°49'54" W	59.92
C9	369.00	28.12	04°21'59"	14.07	S 17°11'59" E	28.11
C12	277.00	35.23	07°17'16"	17.64	S 19°14'10" E	35.21
C13	277.00	58.66	12°08'02"	29.44	N09°31'31"W	58.55
C14	323.00	67.93	12°03'00"	34.09	N09°29'00"W	67.81
C15	277.00	55.88	11°33'30"	28.04	N09°14'15"W	55.79
C16	323.00	65.16	11°33'30"	32.69	N09°14'15"W	65.05
C19	25.00	39.26	89°59'12"	24.99	N29°59'24"E	35.35
C20	25.00	39.26	89°59'12"	24.99	N60°00'36"W	35.35

TYPICAL LOT DETAIL

N.T.S.



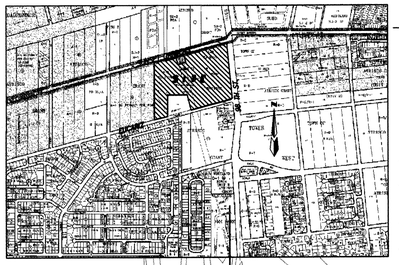
NOTE: THERE IS A 10' PRIVATE DRAINAGE EASEMENT CENTERED ON ALL INTERIOR SIDE LOT LINES. (SEE TYPICAL LOT DETAIL)

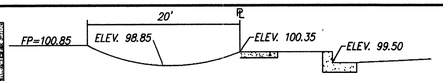
△ CENTERLINE MONUMENTATION

Centerline (in lieu of R/W monumentation) to be installed at all centerline PC's, PT's, angle points, and street intersections as shown hereon, and will consist of a four inch (4") aluminum alloy cap stamped:
CITY OF ALBUQUERQUE
CENTERLINE MONUMENT
DO NOT DISTURB
PLS #7719

dwg: UNIT2SHEET5	Drawn: SPS	Checked: ALS	Sheet	5 of 5
Scale: 1"=50'	Date: 07/29/00	Job: A00022		

Sunrise Ranch Unit 2 (Project No. 645281) Sht. 4 of 20



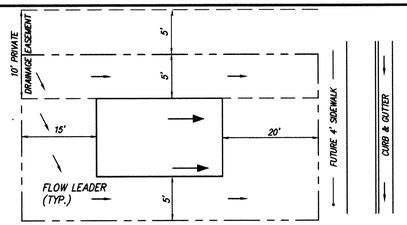


EROSION CONTROL SWALE DETAIL

N.T.S.

EROSION CONTROL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL SEDIMENT OUT OF EXISTING RIGHT-OF-WAY.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING UP ANY SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. EROSION CONTROL BERMS ARE REQUIRED AROUND THE ENTIRE SITE.
5. ALL EROSION CONTROL BERMS MUST BE IN PLACE AND ENGINEER CERTIFIED PRIOR TO BUILDING PERMIT RELEASE.

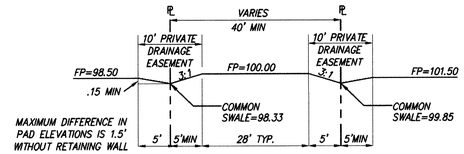


TYPICAL LOT LAYOUT PLAN

N.T.S.

NOTES

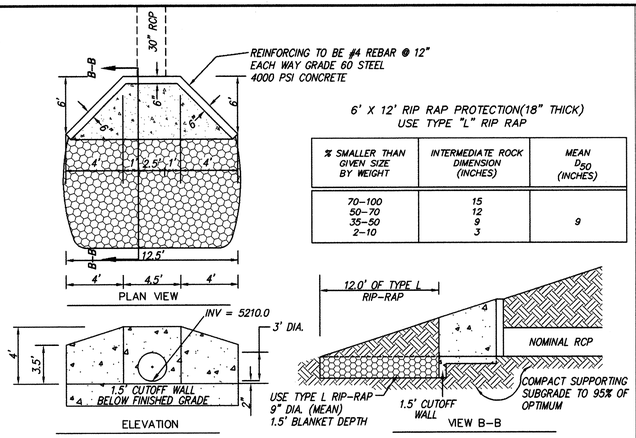
1. ADD 5100' TO ALL SPOT ELEVATIONS.
2. MASONRY BLOCK WALLS (CMU) WILL BE CONSTRUCTED ON THE PROPERTY PERIMETER. FENCES WILL BE USED ON ALL INTERNAL PROPERTY LINES UNLESS MASONRY WALLS ARE INDICATED.



MAXIMUM DIFFERENCE IN PAD ELEVATIONS IS 1.5' WITHOUT RETAINING WALL

SECTION F-F

NTS

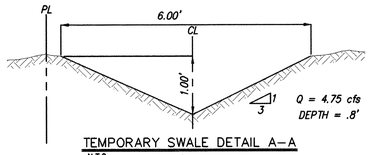


6' X 12' RIP RAP PROTECTION(18" THICK)
USE TYPE "L" RIP RAP

% SMALLER THAN GIVEN SIZE BY WEIGHT	INTERMEDIATE ROCK DIMENSION (INCHES)	MEAN D_{50} (INCHES)
70–100	15	
50–70	12	
35–50	9	9
2–10	3	

POND HEADWALL DETAIL A

NOT TO SCALE

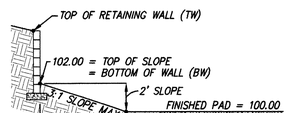


TEMPORARY SWALE DETAIL A–A

N.T.S.

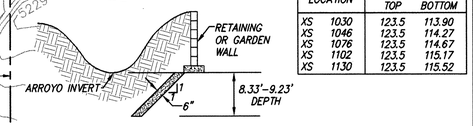
LEGEND

FP= 30.38	FINISHED PAD ELEVATION	—OHE—	EXISTING OVERHEAD ELECTRIC LINE
	MOUNTABLE CURB & GUTTER		TRACT/LOT BOUNDARY
	STANDARD 8" CURB & GUTTER		RIGHT OF WAY
28.53•	PROPOSED SPOT ELEVATION		EASEMENTS
	3:1 SLOPE		CENTERLINE OF ROAD
	PROPOSED DRAINAGE BASIN		NEW RETAINING WALL
	WATER BLOCK		NEW GARDEN WALL
	EXISTING WATER VALVE		FLOW DIRECTION
	EXISTING SANITARY SEWER MANHOLE		SWALE
—5135—	EXISTING CONTOUR		NEW 4' SIDEWALK
× 00.00	EXISTING SPOT ELEVATION		



TYPICAL BACKYARD RETAINING WALL/ SLOPE DETAIL B–B

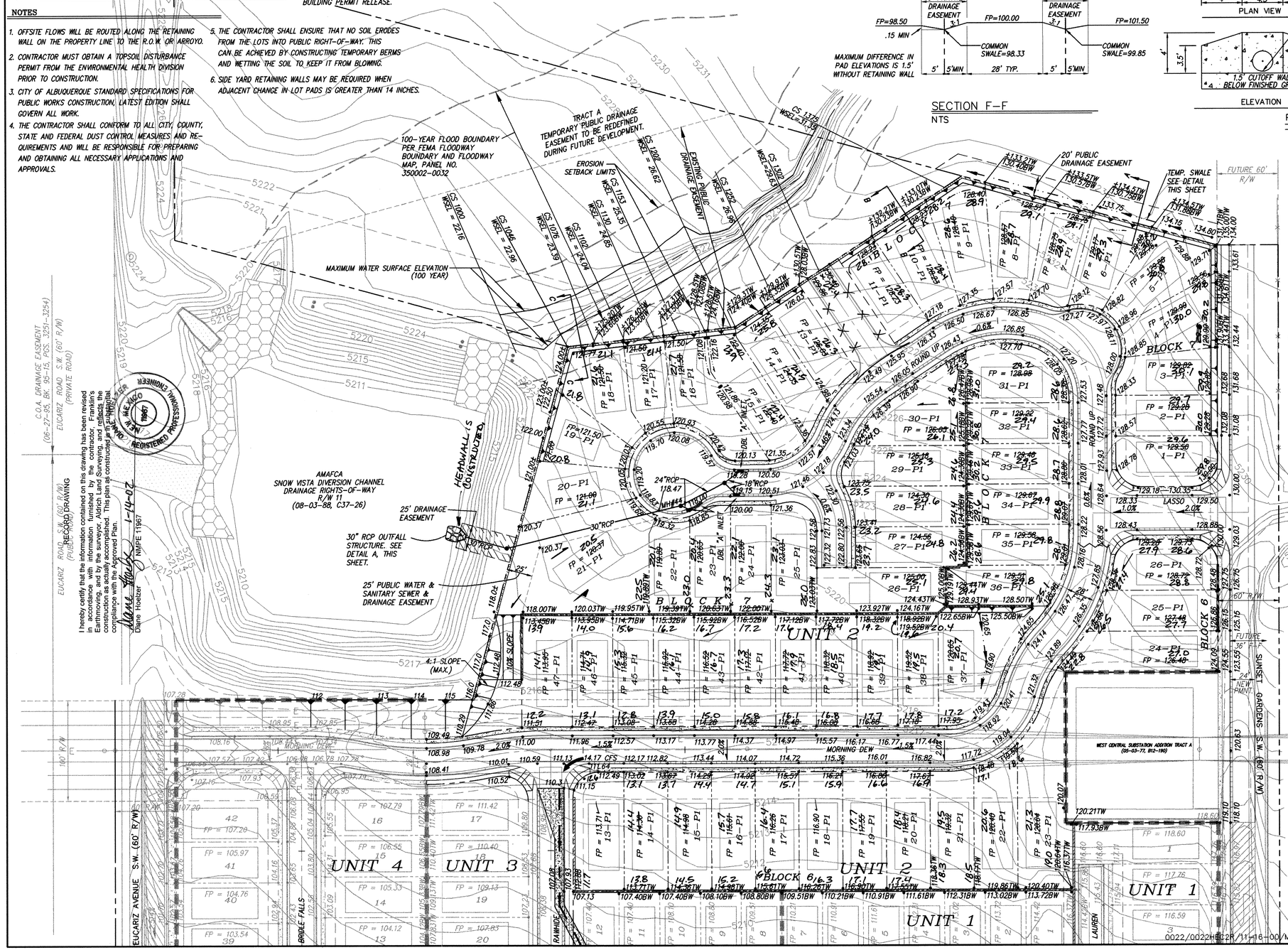
N.T.S.



LOCATION		SCOUR WALL ELEV. TOP	BOTTOM
XS	1030	123.5	113.90
XS	1046	123.5	114.27
XS	1076	123.5	114.67
XS	1102	123.5	115.17
XS	1130	123.5	115.52

CONCRETE SCOUR WALL DETAIL C–C

N.T.S.



NOTES

1. OFFSITE FLOWS WILL BE ROUTED ALONG THE RETAINING WALL ON THE PROPERTY LINE TO THE R.O.W. OR ARROYO.
2. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
3. CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION SHALL GOVERN ALL WORK.
4. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
5. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
6. SIDE YARD RETAINING WALLS MAY BE REQUIRED WHEN ADJACENT CHANGE IN LOT PADS IS GREATER THAN 14 INCHES.

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the owner, owner's representative, Earthmoving, and by the surveyor, Aldrich Land Surveying, and reflects the construction as actually accomplished. This plan as constructed is substantial compliance with the Approved Plan.

RECORD DRAWING
(PE/LS) NMPE 11967
Diane Hoelzer

DIANE HOELZER NEW MEXICO 11967 REGISTERED PROFESSIONAL ENGINEER

11-14-02

SCANNED BY MESA REPRO

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE

BENCH MARKS

ACS MONUMENT "9-L9"
Y = 1480156.08
X = 353055.34
G-G = 0.99967636
DELTA ALPHA = -00°16'56"
CENTRAL ZONE (NAD 1927/SLD 1929)
ELEVATION = 5187.04

AS BUILT INFORMATION

CONTRACTOR	Franklin's	DATE 11/16
WORK STAKED BY	ACS	DATE 5/01
INSPECTOR'S ACCEPTANCE BY	MJR	DATE 5/01
FIELD VERIFICATION BY	ACS	DATE 5/01
DRAWINGS CORRECTED BY	MJR	DATE 5/01

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	C.T. Jaramillo / S. Moya

ENGINEER'S SEAL

DIANE HOELZER NEW MEXICO 11967 REGISTERED PROFESSIONAL ENGINEER

11-16-00

NO.	DATE	REMARKS	BY

REVISIONS

DESIGNED BY	DLH	DATE 11/00
DRAWN BY	MJR	DATE 11/00
CHECKED BY	DMG	DATE 11/00

50' 25' 0 50' 100'

SCALE: 1" = 50'

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 2 GRADING AND DRAINAGE PLAN

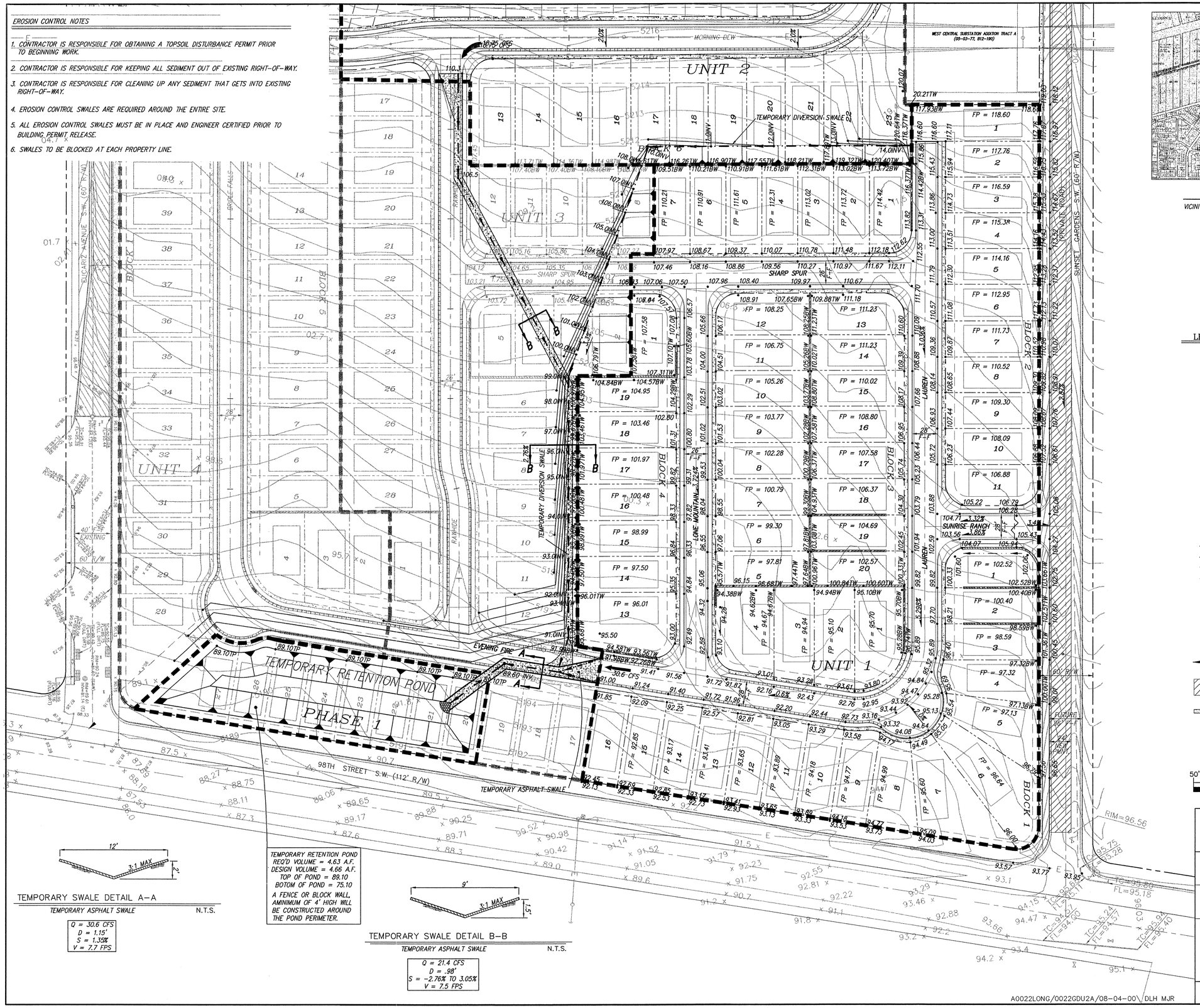
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
Approved	DED			

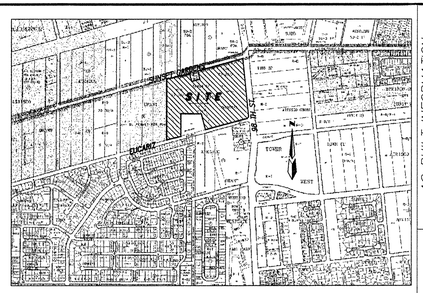
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
645281	L-8 & 9	5	20

0022/0022HEC2R/11-16-00/MJR ACH DLH NHM

EROSION CONTROL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL SEDIMENT OUT OF EXISTING RIGHT-OF-WAY.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING UP ANY SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. EROSION CONTROL SWALES ARE REQUIRED AROUND THE ENTIRE SITE.
5. ALL EROSION CONTROL SWALES MUST BE IN PLACE AND ENGINEER CERTIFIED PRIOR TO BUILDING PERMIT RELEASE.
6. SWALES TO BE BLOCKED AT EACH PROPERTY LINE.





VICINITY MAP ZONE MAP: M-8, M-9

NOTES

1. ADD 5100' TO ALL SPOT ELEVATION.
2. MASONRY BLOCK WALLS(CMU) WILL BE CONSTRUCTED ON THE PROPERTY PERIMETER. FENCES WILL BE USED ON ALL INTERNAL PROPERTY LINES UNLESS MASONRY WALLS ARE INDICATED.

LEGEND

FP= 30.38	FINISHED PAD ELEVATION
	MOUNTABLE CURB & GUTTER
	STANDARD 8" CURB & GUTTER
28.53•	PROPOSED SPOT ELEVATION
	3:1 SLOPE
20	LOT 20
	PROPOSED DRAINAGE BASIN
	WATER BLOCK
	EXISTING WATER VALVE
	EXISTING SANITARY SEWER MANHOLE
5135	EXISTING CONTOUR
x 00.00	EXISTING SPOT ELEVATION
E	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING POWER POLE
	TRACT/LOT BOUNDARY
	RIGHT OF WAY
	EASEMENTS
	CENTERLINE OF ROAD
	NEW RETAINING WALL
	50' PAVEMENT TRANSITION
	FLOW DIRECTION
	SWALE
	NEW OFFSITE PAVEMENT
	NEW SIDEWALK

50' 25' 0 50' 100'
SCALE: 1" = 50'

TEMPORARY SWALE DETAIL A-A
TEMPORARY ASPHALT SWALE N.T.S.

Q = 30.6 CFS
D = 1.15'
S = 1.35%
V = 7.7 FPS

TEMPORARY RETENTION POND
REQ'D VOLUME = 4.63 A.F.
DESIGN VOLUME = 4.66 A.F.
TOP OF POND = 89.10
BOTOM OF POND = 75.10
A FENCE OR BLOCK WALL, AMINIMUM OF 4' HIGH WILL BE CONSTRUCTED AROUND THE POND PERIMETER.

TEMPORARY SWALE DETAIL B-B
TEMPORARY ASPHALT SWALE N.T.S.

Q = 21.4 CFS
D = .98'
S = -2.76% TO 3.05%
V = 7.5 FPS

A0022LONG/0022GDU2A/08-04-00\DLH MJR

AS BUILT INFORMATION
CONTRACTOR Franklins
WORK STAKED BY ALS DATE 11/01
INSPECTED BY MBM DATE 5/01
FIELD VERIFICATION BY ALS DATE 5/01
DRAWINGS CORRECTED BY MBM DATE 5/01
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS MONUMENT "9-L9"
Y = 1480156.08
X = 353055.34
C-G = 0.999676.36
DELTA ALPHA = -0016'56"
CENTRAL ZONE (NAD 1927/SLD 1929)
ELEVATION = 5187.04

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
DAVE HOELZER NEW MEXICO 11987 REGISTERED PROFESSIONAL ENGINEER
10-8-9

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGNED BY	DLH	3/00
DRAWN BY	KJS MJR	3/00
CHECKED BY	DMG	3/00

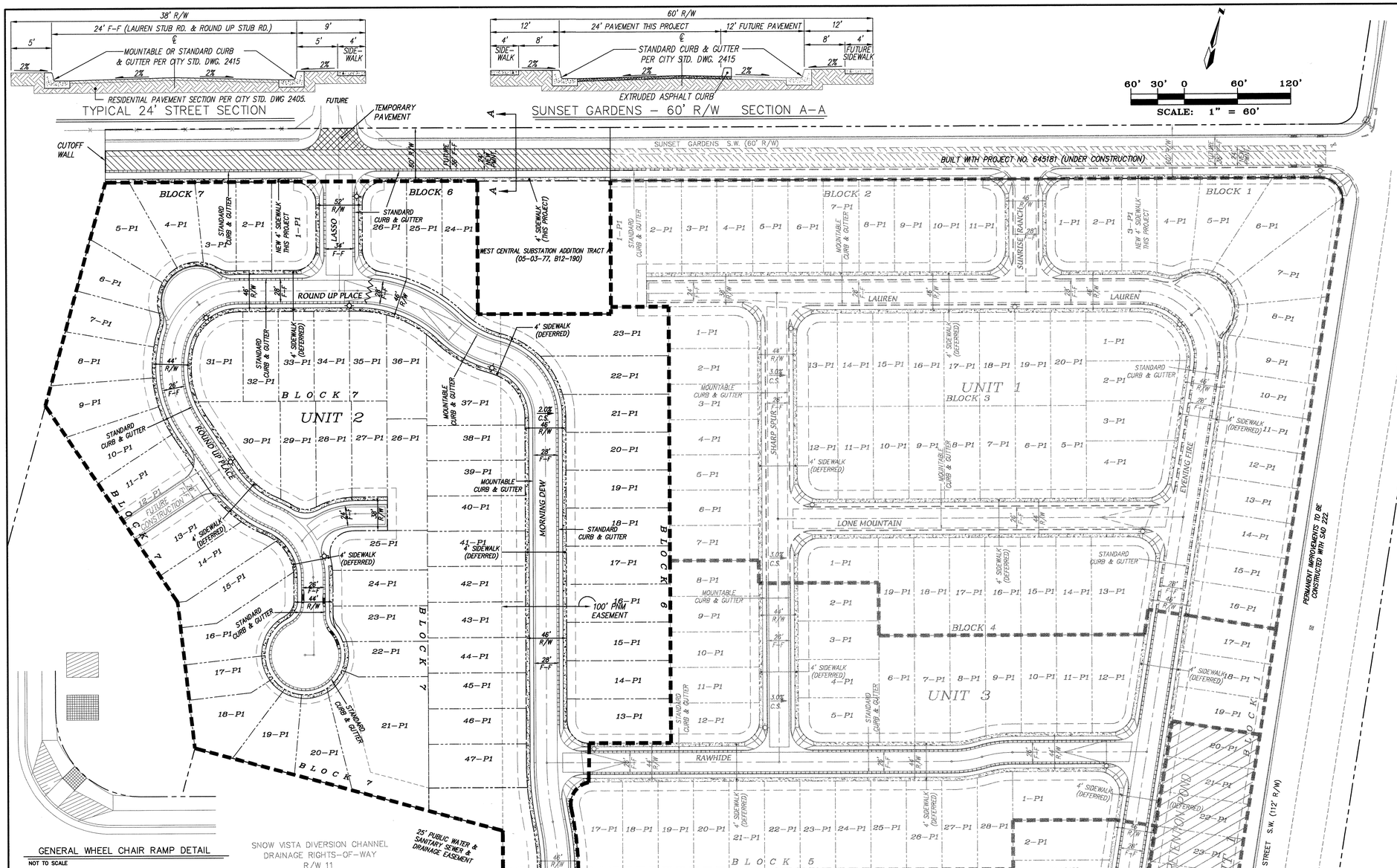
MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: SUNRISE RANCH - UNIT 2
GRADING AND DRAINAGE PLAN

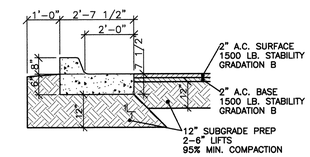
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
approved	DRB			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
645281	L-8, L-9	6	20



NOTES

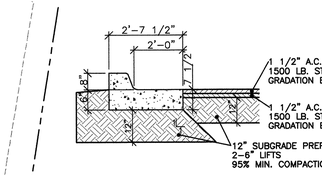
1. ALL 4' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2421 AT KNUCKLES AND 6' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2420 AT ALL INTERSECTIONS.
2. ALL 4' INTERIOR SIDEWALKS ARE DEFERRED.
3. ALL HANDICAP RAMPS TO BE CASE II PER CITY OF ALBUQUERQUE STANDARD DRAWING 2441. WHERE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



SUNSET GARDENS PAVEMENT SECTION DETAIL

NOT TO SCALE

PAVEMENT SECTION PER COA STD. DWG. 2405



RESIDENTIAL\TEMPORARY PAVEMENT SECTION DETAIL

NOT TO SCALE

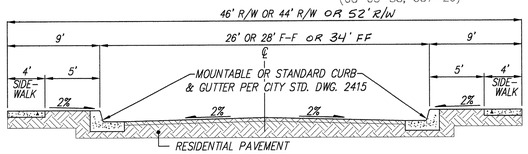
PAVEMENT SECTION PER COA STD. DWG. 2405

LEGEND

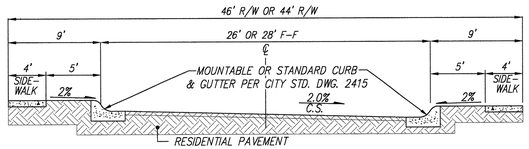
- FUTURE SANITARY SEWER MANHOLE
- FUTURE STORM SEWER MANHOLE
- EXISTING 8" SANITARY SEWER
- EXISTING STORM DRAIN
- STANDARD 8" CURB & GUTTER
- MOUNTABLE CURB & GUTTER
- RETAINING WALL
- CENTERLINE
- TRACT/LOT BOUNDARY
- SETBACK
- PROPERTY
- PUE
- EXISTING EASEMENT
- 5026 EXISTING CONTOUR
- EXISTING LOTS
- HANDICAP RAMPS
- STREET LIGHT
- SIDEWALK
- 50' CROWN TRANSITION
- STORM DRAIN INLET
- 2.0% C.S. CROSS SLOPE, NO CROSS SECTION
- STREET LIGHT

GENERAL WHEEL CHAIR RAMP DETAIL

NOT TO SCALE



TYPICAL 28' OR 26' STREET SECTION



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

N.T.S.

AS BUILT INFORMATION

CONTRACTOR	Franklin's	DATE 4/01
WORK STAKED BY	ALS	DATE 5/01
INSPECTOR'S ACCEPTANCE BY	MGM	DATE 5/01
FIELD VERIFICATION BY	ALS	DATE 5/01
DRAWINGS CORRECTED BY	MGM	DATE 5/01
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

BENCH MARKS

ACS MONUMENT "9-L9" THE STATION IN 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 CNETERLINE OF 98TH ST., AND IS 0.13 MILES NORTH OF RYNO 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

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DANE HOELZER NEW MEXICO 10987 REGISTERED PROFESSIONAL ENGINEER 11/5/00

NO.	DATE	REMARKS	BY

REVISIONS

		DATE
DESIGNED BY	DLH	05/00
DRAWN BY	MJR	05/00
CHECKED BY	DMG	05/00

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

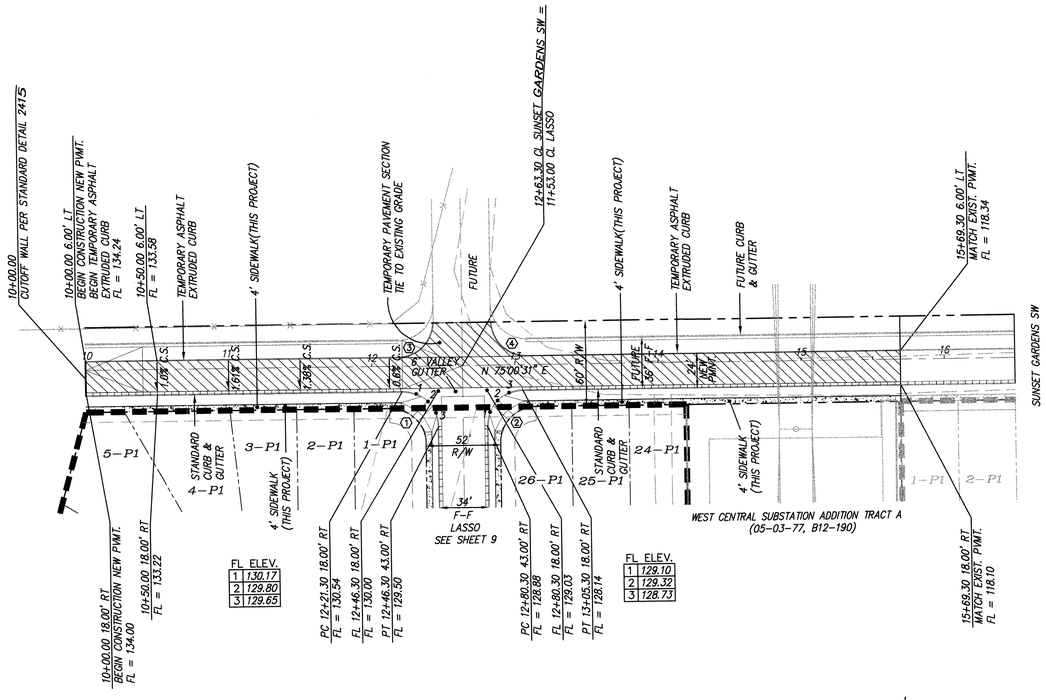
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:

SUNRISE RANCH - UNIT 2 MASTER PAVING PLAN

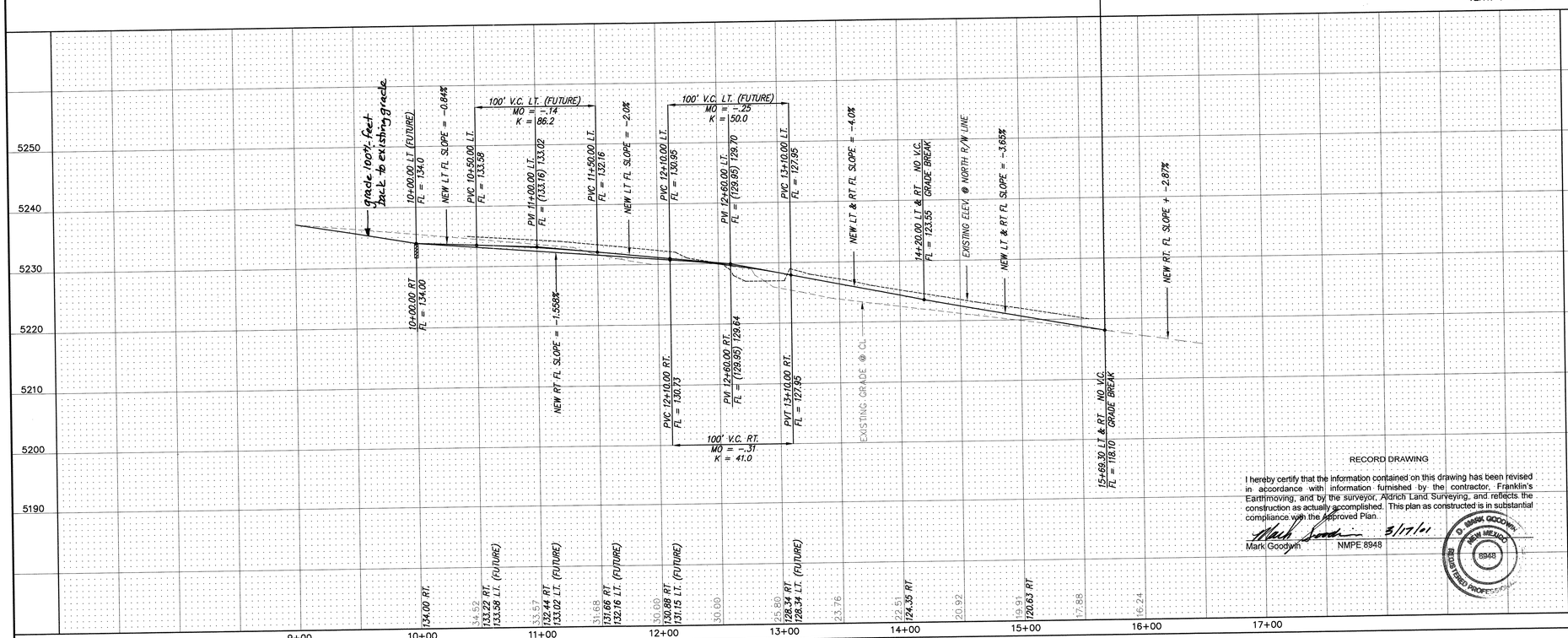
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
NOV 29 2000 DESIGN REVIEW COMMITTEE	DEC 15 2000 CITY ENGINEER			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
645281	L-8, L-9	7	20



UNIT 2 THIS PROJECT | UNIT 1 PROJECT NO. 645181

SUNSET GARDENS
STA. 10+00.00 TO STA. 15+69.30
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'



0022\UNIT2\0022PP-9\11-03-00\ NHM MJR

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA – DESCRIBES FACE OF CURB

① Δ = 90°00'00" R = 25.00' L = 39.27' T = 25.00'
② Δ = 90°00'00" R = 25.00' L = 39.27' T = 25.00'
③ Δ = 90°00'00" R = 25.00' L = 39.27' T = 25.00'
④ Δ = 90°00'00" R = 25.00' L = 39.27' T = 25.00'

AS BUILT INFORMATION
CONTRACTOR Franklin's
WORK STAKED BY ALS DATE 11/
INSPECTORS ACCEPTANCE BY MGH DATE 11/
FIELD VERIFICATION BY ALS DATE 11/
DRAWINGS CORRECTED BY MGH DATE 11/
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS MONUMENT "9-L9". THE STATION IN 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 ONETERLINE OF 98TH ST., AND IS 0.13 MILES NORTH OF RYNO CT., S.W.
THE STATION IS AN ACS 3 1/4" ALUM. CAP RIVETTED 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

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
DUANE HOELZER NEW MEXICO 10867 REGISTERED PROFESSIONAL ENGINEER 11-5-00

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY DLH DATE 07/00
DRAWN BY MJR DATE 07/00
CHECKED BY DMG DATE 07/00

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Franklin's Earthmoving, and by the surveyor, Aldrich Land Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

Mark Goodwin 3/17/01
Mark Goodwin NMPE 8948
MARK GOODWIN NEW MEXICO 8948 REGISTERED PROFESSIONAL ENGINEER

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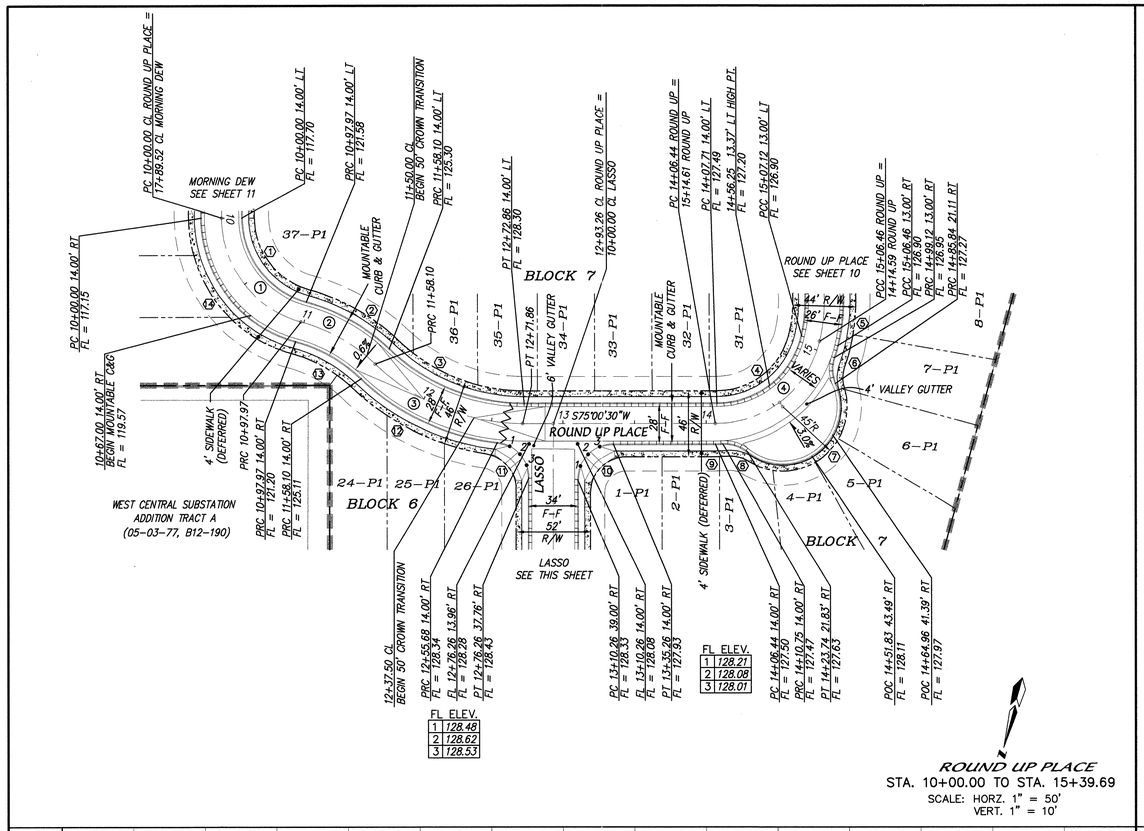
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: SUNRISE RANCH - UNIT 2
SUNSET GARDENS
PAVING IMPROVEMENTS

DESIGN REVIEW COMMITTEE: APPROVED NOV 29 2000 DATE
CITY ENGINEER APPROVAL: APPROVED DEC 15 2000 DATE CITY ENGINEER
LAST DESIGN UPDATE MO./DAY/YR. MO./DAY/YR.

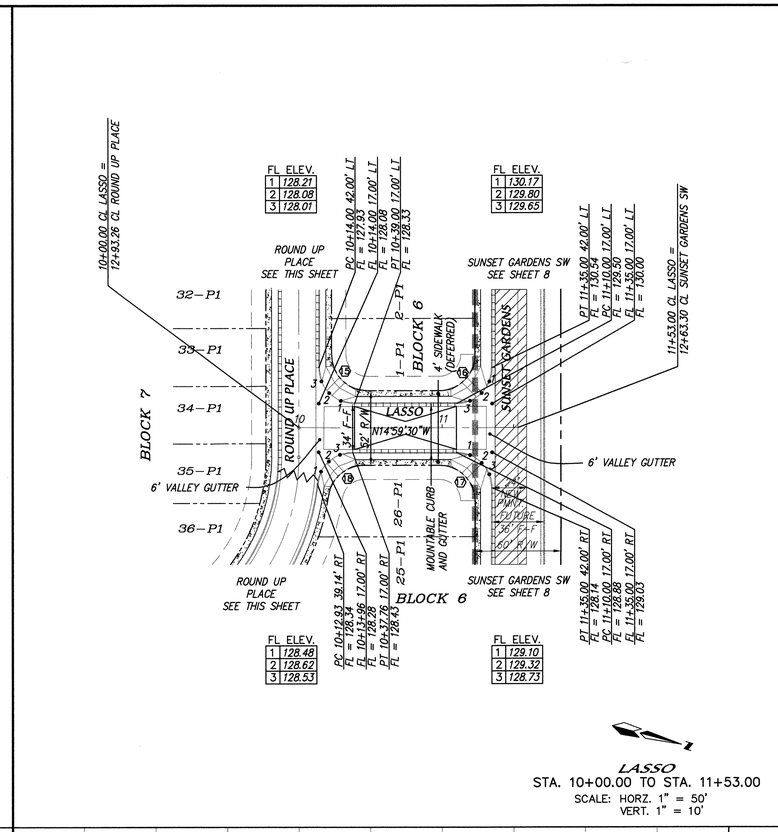
CITY PROJECT NO. 645281 | ZONE MAP NO. L-8, L-9 | SHEET 8 OF 20



ROUND UP PLACE

STA. 10+00.00 TO STA. 15+39.69

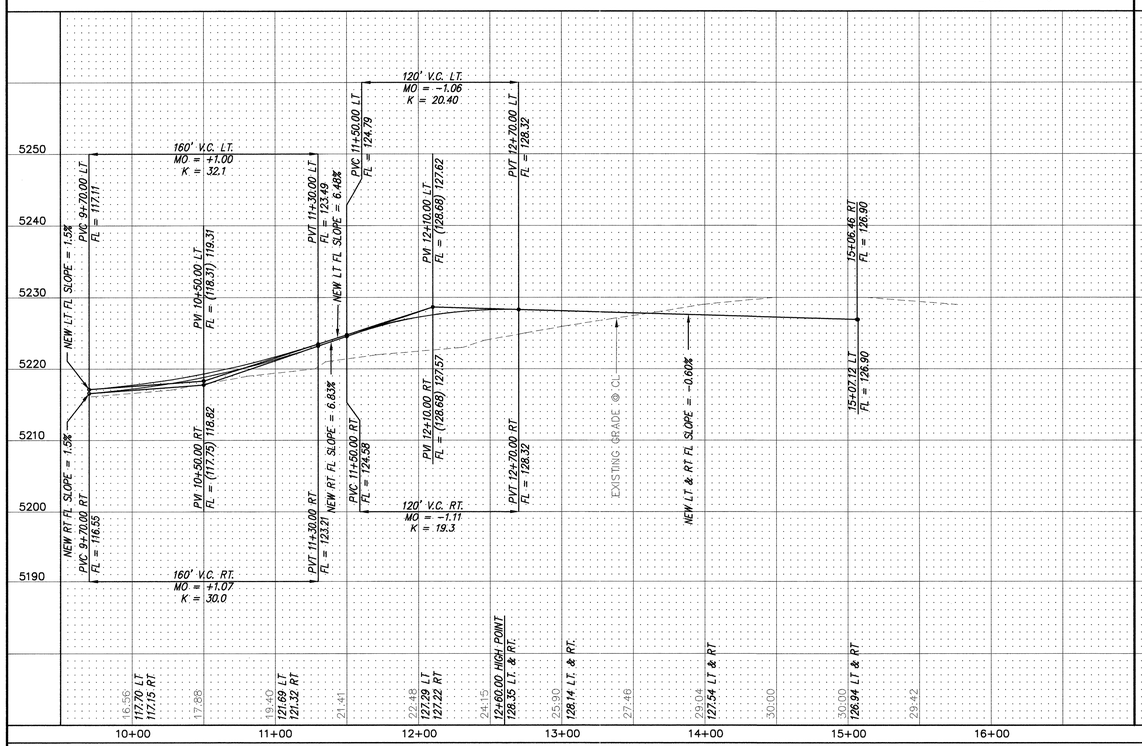
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

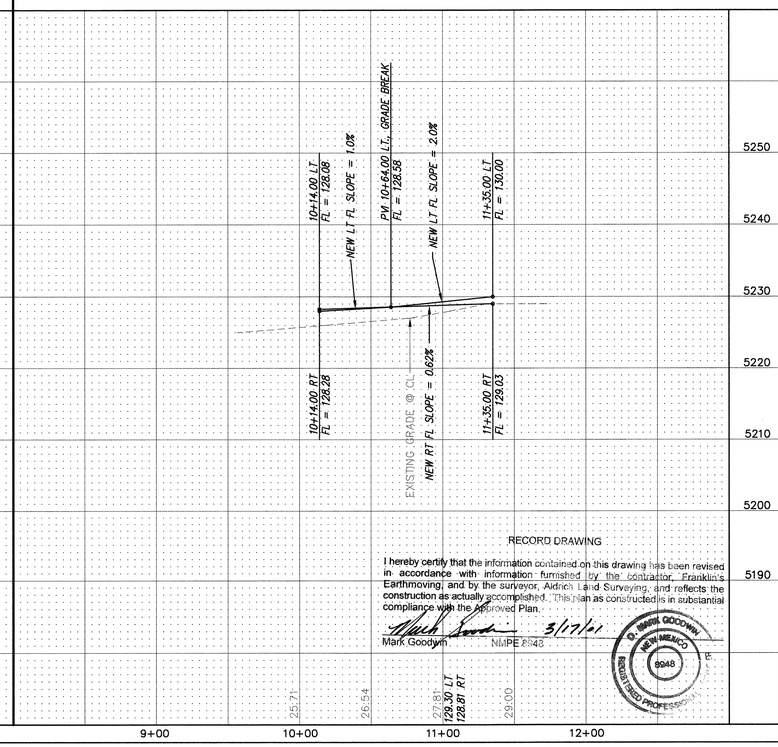


LASSO

STA. 10+00.00 TO STA. 11+53.00

SCALE: HORZ. 1" = 50'
VERT. 1" = 10'





NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA – DESCRIBES FACE OF CURB

① Δ = 74°50'48" RT. R = 75.00' L = 97.97' T = 57.39'	② Δ = 28°42'23" RT. R = 120.00' L = 60.12' T = 30.71	③ Δ = 43°26'45" RT. R = 150.00' L = 113.76' T = 59.77'
④ Δ = 76°24'31" RT. R = 75.00' L = 100.02' T = 59.03'		

CURVE DATA – DESCRIBES FACE OF CURB

① Δ = 74°50'48" RT. R = 61.00' L = 79.69' T = 46.68'	② Δ = 28°42'23" RT. R = 134.00' L = 67.14' T = 34.29'	③ Δ = 43°50'04" RT. R = 136.00' L = 104.05' T = 54.72'
④ Δ = 76°24'31 RT. R = 61.00' L = 81.35' T = 48.01'	⑤ Δ = 15°37'38" RT. R = 134.00' L = 36.53' T = 18.39'	⑥ Δ = 41°52'09" RT. R = 25.00' L = 18.27' T = 9.56'
⑦ Δ = 150°41'48" RT. R = 40.00' L = 105.21' T = 153.00'	⑧ Δ = 41°52'09" RT. R = 25.00' L = 18.27' T = 9.56'	⑨ Δ = 03°17'17" RT. R = 89.00' L = 5.11' T = 2.55'
⑩ Δ = 90°00'00" RT. R = 25.00' L = 39.27' T = 25.00'	⑪ Δ = 83°26'23" RT. R = 25.00' L = 36.41' T = 22.29'	⑫ Δ = 37°16'27" RT. R = 164.00' L = 106.69' T = 55.31'
⑬ Δ = 28°42'23" RT. R = 106.00' L = 53.11' T = 27.12'	⑭ Δ = 74°50'48" RT. R = 89.00' L = 116.26' T = 68.10'	⑮ Δ = 90°00'00" RT. R = 25.00' L = 39.27' T = 25.00'
⑯ Δ = 90°00'00" RT. R = 25.00' L = 39.27' T = 25.00'	⑰ Δ = 90°00'00" RT. R = 25.00' L = 39.27' T = 25.00'	⑱ Δ = 83°26'23" RT. R = 25.00' L = 36.41' T = 22.29'

AS BUILT INFORMATION

CONTRACTOR Franklin's
STAKED BY ALS DATE
INSPECTOR'S ACCEPTANCE BY MGA DATE
FIELD VERIFICATION BY ALS DATE
DRAWINGS CORRECTED BY MGA DATE

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

BENCH MARKS

ACS MONUMENT "9-L9". 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 CNETERLINE OF 98TH ST., AND IS 0.13 MILES NORTH OF RYNO CT., S.W.
THE STATION IS AN ACS 3 1/4" ALUM. CAP RIVETTED 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

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DANE HOELZER NEW MEXICO 15907 PROFESSIONAL ENGINEER REGISTERED PROFESSIONAL ENGINEER 11-5-00

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY DLH DATE 07/00
DRAWN BY MJR DATE 07/00
CHECKED BY DMG DATE 07/00

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

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Franklin's Earthmoving, and by the surveyor, Aldrich Land Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

3/17/01
Mark Goodwin NMPE #8948

MARK GOODWIN NEW MEXICO 8948 REGISTERED PROFESSIONAL ENGINEER

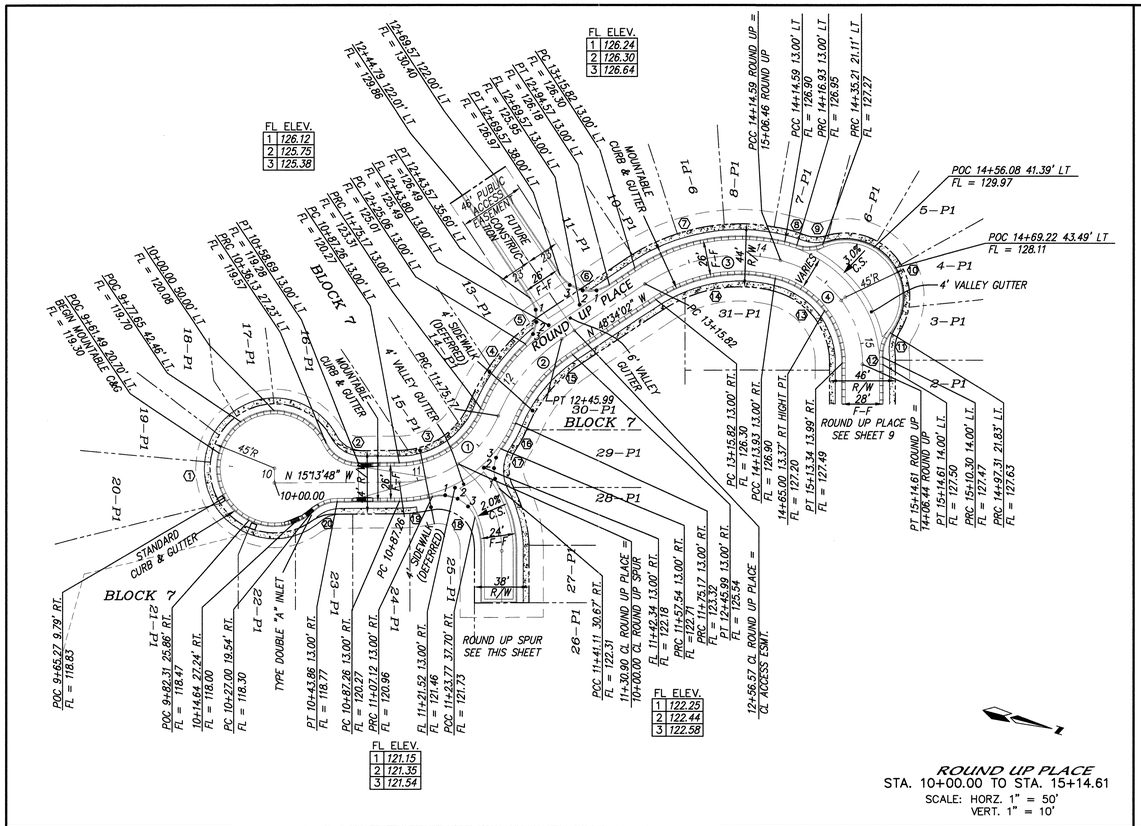
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: SUNRISE RANCH - UNIT 2
ROUND UP PLACE & LASSO
PAVING IMPROVEMENTS

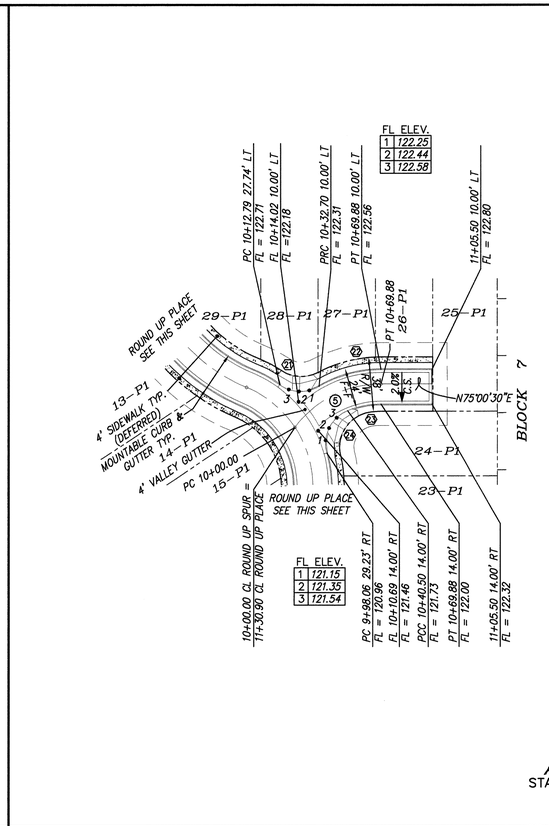
DESIGN REVIEW COMMITTEE: APPROVED NOV 29 2000
CITY ENGINEER APPROVAL: DEC 15 2000 CITY ENGINEER
LAST DESIGN UPDATE MO./DAY/YR. MO./DAY/YR.

CITY PROJECT NO. 645281 ZONE MAP NO. L-8, L-9 SHEET 9 OF 20

0022\UNIT2\0022PP-7\11-05-00\ NHM MJR



ROUND UP PLACE
STA. 10+00.00 TO STA. 15+14.61
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'



ROUND UP PLACE - SPUR
STA. 10+00.00 TO STA. 11+05.50
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

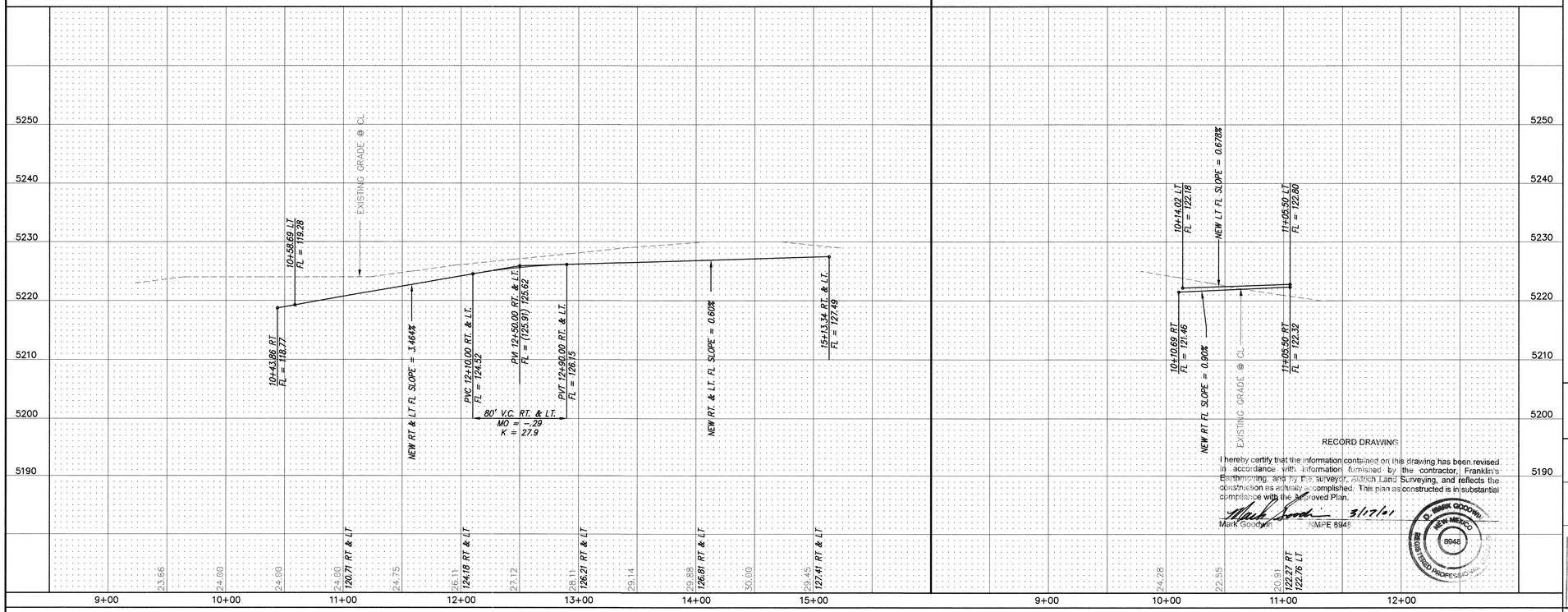
CURVE DATA – DESCRIBES CENTERLINE

① Δ = 67°09'18" RT. R = 75.00' L = 87.91' T = 49.79'	② Δ = 33°49'04" RT. R = 120.00' L = 70.83' T = 36.48'	③ Δ = 47°09'36" RT. R = 120.00' L = 98.77' T = 52.38'
④ Δ = 76°24'31" RT. R = 75.00' L = 100.02' T = 59.03'	⑤ Δ = 53°23'09" RT. R = 75.00' L = 69.88' T = 37.71'	

CURVE DATA – DESCRIBES FACE OF CURB

① Δ = 286°52'59" RT. R = 40.00' L = 200.28' T = –29.66'	② Δ = 64°29'01" RT. R = 25.00' L = 28.14' T = 15.77'	③ Δ = 67°09'18" RT. R = 62.00' L = 71.50' T = 41.16'
④ Δ = 23°49'17" RT. R = 133.00' L = 55.30' T = 28.05'	⑤ Δ = 80°00'13" RT. R = 25.00' L = 34.91' T = 20.98'	⑥ Δ = 90°00'00" RT. R = 25.00' L = 39.27' T = 25.00'
⑦ Δ = 47°09'38" RT. R = 133.00' L = 109.47' T = 58.05'	⑧ Δ = 05°36'24" RT. R = 88.00' L = 8.61' T = 4.31'	⑨ Δ = 42°37'28" RT. R = 25.00' L = 18.60' T = 9.75'
⑩ Δ = 152°00'28" RT. R = 40.00' L = 106.12' T = 160.48'	⑪ Δ = 41°52'09" RT. R = 25.00' L = 18.27' T = 9.56'	⑫ Δ = 03°17'17" RT. R = 89.00' L = 5.11' T = 2.55'
⑬ Δ = 76°43'40" RT. R = 61.00' L = 81.69' T = 48.29'	⑭ Δ = 46°50'53" RT. R = 107.00' L = 87.49' T = 46.36'	⑮ Δ = 33°49'04" RT. R = 107.00' L = 63.15' T = 32.53'
⑯ Δ = 13°27'46" RT. R = 89.00' L = 17.83' T = 8.94'	⑰ Δ = 66°45'56" RT. R = 25.00' L = 29.13' T = 16.47'	⑱ Δ = 82°57'44" RT. R = 25.00' L = 36.20' T = 22.10'
⑲ Δ = 15°10'11" RT. R = 88.00' L = 23.30' T = 11.72'	⑳ Δ = 65°07'57" RT. R = 25.00' L = 28.42' T = 15.97'	㉑ Δ = 42°23'58" RT. R = 25.00' L = 18.50' T = 9.70'
㉒ Δ = 66°45'56" RT. R = 25.00' L = 29.13' T = 16.47'	㉓ Δ = 30°41'46" RT. R = 85.00' L = 45.54' T = 23.33'	㉓ Δ = 22°26'46" RT. R = 61.00' L = 23.90' T = 12.10'
㉔ Δ = 82°57'44" RT. R = 25.00' L = 36.20' T = 22.10'		

2.0% C.S. = CROSS SLOPE, NO CROWN SECTION



RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Franklin's Earthmoving, and by the surveyor, Aldrich Land Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

Mark Goodwin 3/7/01
Mark Goodwin NMPE 8948

0022\UNIT2\0022PP-8\11-01-00\NHM MJR

AS BUILT INFORMATION

CONTRACTOR	FRANKLINS	DATE 1/1
WORK STAKED BY	ALS	DATE 1/1
INSPECTOR'S ACCEPTANCE BY	NRGA	DATE 1/1
VERIFICATION BY	ALS	DATE 1/1
FIELD TASKS CORRECTED BY	NRGA	DATE 1/1

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

ACS MONUMENT "9-L9". THE STATION IN 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 CNETERLINE OF 98TH ST., AND IS 0.13 MILES NORTH OF RINO CT., S.W.
THE STATION IS AN ACS 3 1/4" ALUM. CAP RIVETTED TO A PIPE 0.25' ABOVE GROUND AND IS STAMPED "9-L9, 1099".
X = 353,055.34 Y = 1,480,156.08 ELEV. = 5187.036

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE

ENGINEER'S SEAL

DUANE HOELZER NEW MEXICO 11967 REGISTERED PROFESSIONAL ENGINEER 11-5-00

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

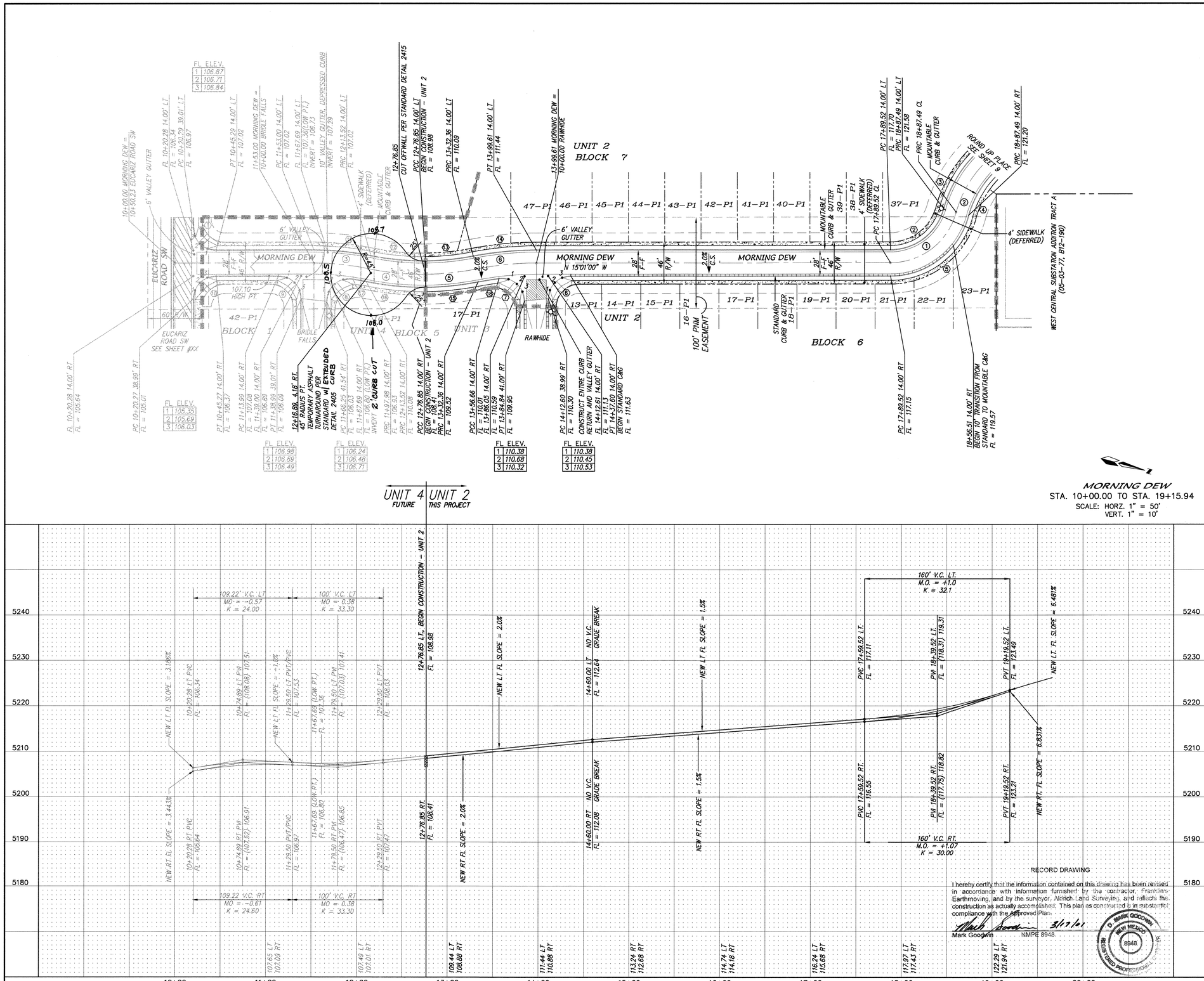
dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: SUNRISE RANCH - UNIT 2
ROUND UP PLACE & SPUR
PAVING IMPROVEMENTS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED NOV 29 2000 DESIGN REVIEW COMMITTEE	APPROVED DEC 15 2000 CITY ENGINEER			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
645281	L-8, L-9	10	20



MORNING DEW
STA. 10+00.00 TO STA. 19+15.94
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Franklins Earthmoving, and by the surveyor, Aldrich Land Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

Mark Goodwin 3/7/01
Mark Goodwin NMPE 8948

D. MARK GOODWIN NEW MEXICO 8948 REGISTERED PROFESSIONAL ENGINEER

0022\UNIT2\0022PP-6\10-31-00\ NHM MJR

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA – DESCRIBES CENTERLINE

① Δ = 74°50'48" R = 75.00' L = 97.97' T = 57.36'	② Δ = 28°42'23" R = 120.00' L = 60.12' T = 30.77'	③ Δ = 11°33'30" R = 300.00' L = 60.52' T = 30.36'
④ Δ = 12°05'44" R = 300.00' L = 63.33' T = 31.78'	⑤ Δ = 10°36'00" R = 300.00' L = 55.50' T = 27.83'	⑥ Δ = 11°08'14" R = 346.00' L = 67.26' T = 33.73'

CURVE DATA – DESCRIBES FACE OF CURB

① Δ = 90°00'48" R = 25.00' L = 39.28' T = 25.01'	② Δ = 74°50'48" R = 61.00' L = 79.69' T = 46.68'	③ Δ = 28°42'23" R = 134.00' L = 67.14' T = 34.29'
④ Δ = 28°42'23" R = 106.00' L = 53.11' T = 27.12'	⑤ Δ = 74°50'48" R = 89.00' L = 116.26' T = 68.10'	⑥ Δ = 89°59'12" RT. R = 25.00' L = 39.26' T = 24.99'
⑦ Δ = 97°07'32" R = 25.00' L = 42.38' T = 28.32'	⑧ Δ = 98°34'41" R = 25.00' L = 43.01' T = 29.05'	⑨ Δ = 90°00'48" R = 25.00' L = 39.28' T = 25.01'
⑩ Δ = 89°59'12" R = 25.00' L = 39.26' T = 24.99'	⑪ Δ = 11°33'30" R = 314.00' L = 63.34' T = 31.78'	⑫ Δ = 12°05'44" R = 286.00' L = 60.34' T = 30.30'
⑬ Δ = 10°36'00" R = 286.00' L = 52.91' T = 26.53'	⑭ Δ = 11°08'14" R = 360.00' L = 69.98' T = 35.10'	⑮ Δ = 10°36'00" R = 314.00' L = 58.09' T = 29.13'
⑯ Δ = 12°05'44" R = 314.00' L = 66.29' T = 33.27'	⑰ Δ = 02°58'01" R = 286.00' L = 14.81' T = 7.41'	⑱ Δ = 04°01'30" R = 332.00' L = 23.32' T = 11.67'

2.0% / C.S. = CROSS SLOPE, NO CROWN SECTION

AS BUILT INFORMATION

CONTRACTOR Franklins
WORK STAKED BY ACS
INSPECTOR'S ACCEPTANCE BY MGH DATE 3/6/01
FIELD VERIFICATION BY ACS DATE 8/00
DRAWINGS CORRECTED BY MGH DATE 8/00

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

BENCH MARKS

ACS MONUMENT "9-L9", THE STATION IN 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 ONETERLINE OF 98TH ST., AND IS 0.13 MILES NORTH OF RYNO CT., S.W.
THE STATION IS AN ACS 3 1/4" ALUM. CAP RIVETTED 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

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DUANE HOELZER NEW MEXICO 7867 REGISTERED PROFESSIONAL ENGINEER 11-15-00

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN			
DESIGNED BY	DLH	DATE	07/00
DRAWN BY	MJR	DATE	07/00
CHECKED BY	DMG	DATE	07/00

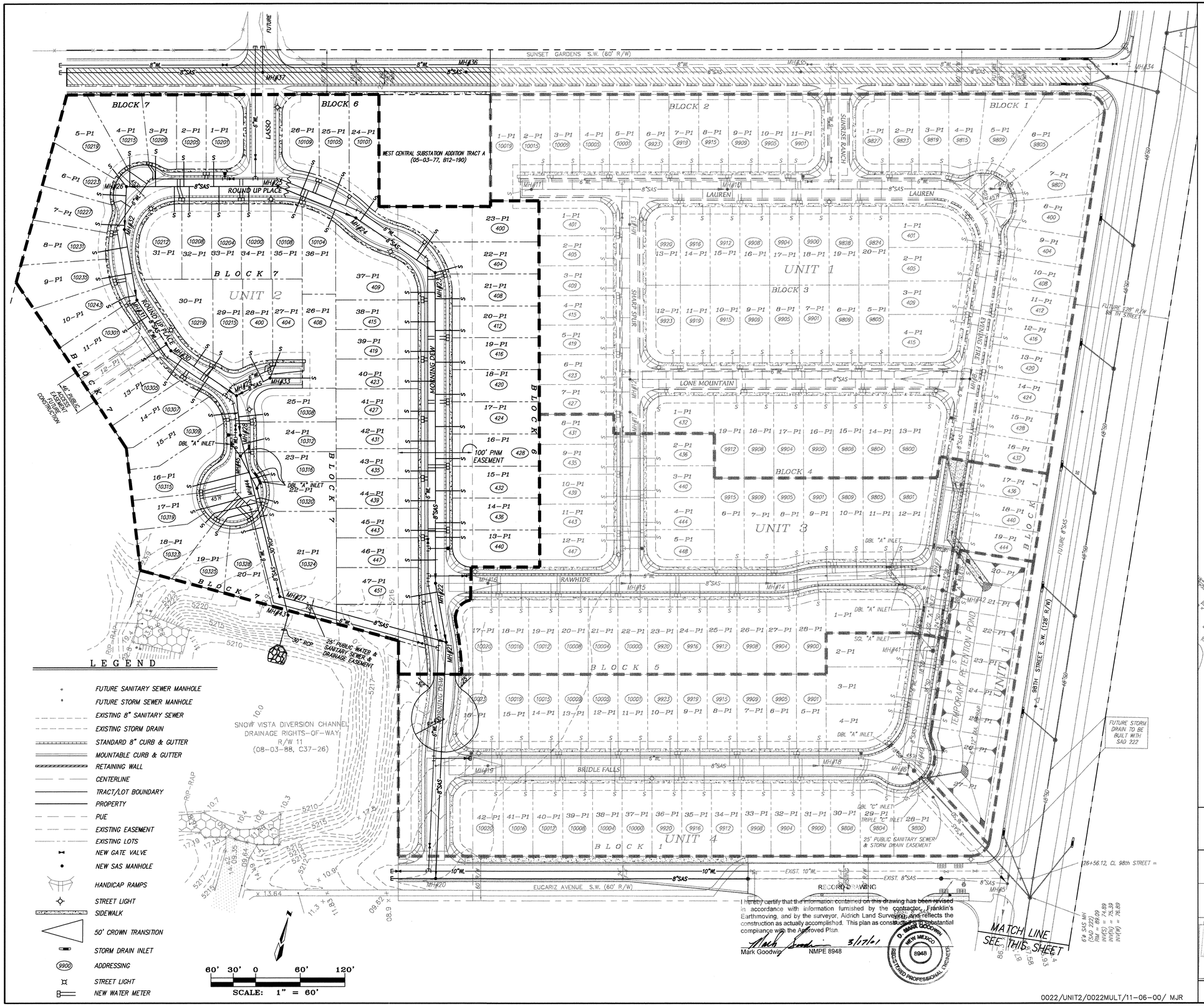
dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

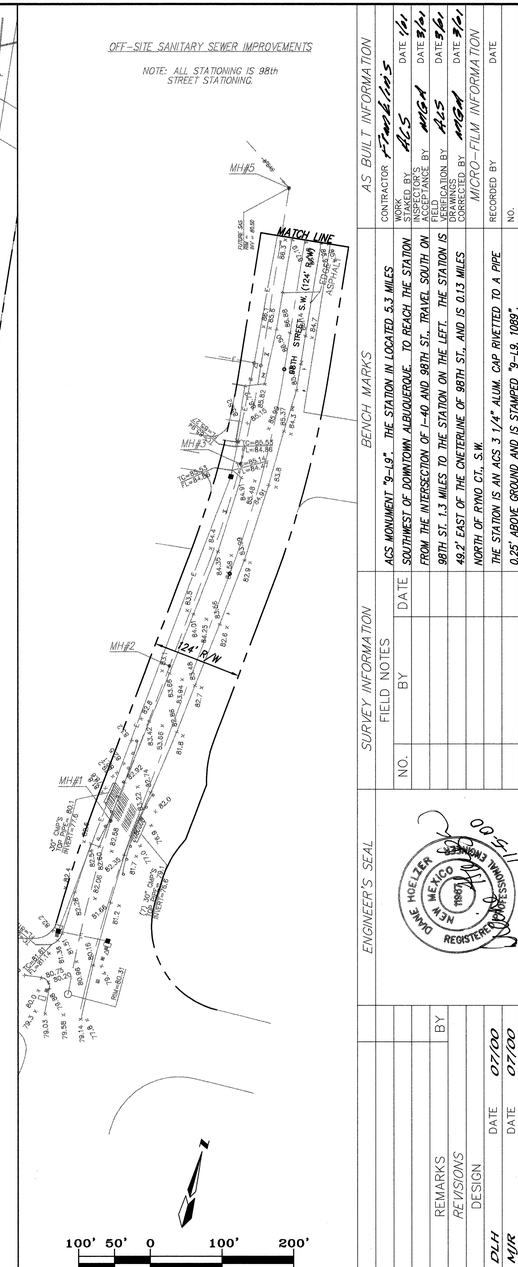
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: SUNRISE RANCH - UNIT 2
MORNING DEW
PAVING IMPROVEMENTS

DESIGN REVIEW COMMITTEE: NOV 29 2000 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: DEC 15 2000 CITY ENGINEER
LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 645281 | ZONE MAP NO. L-8, L-9 | SHEET 11 OF 20





AS BUILT INFORMATION

CONTRACTOR WORK STAKED BY	FranklinS	DATE 1/01
INSPECTOR'S ACCEPTANCE BY	ALS	DATE 3/01
FIELD VERIFICATION BY	ALS	DATE 3/01
DRAWINGS CORRECTED BY	MGA	DATE 3/01

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

ACS MONUMENT "9-L9". THE STATION IN 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 CNETERLINE OF 98TH ST., AND IS 0.13 MILES NORTH OF RYNO CT., S.W.
THE STATION IS AN ACS 3 1/4" ALUM. CAP RIVETTED TO A PIPE.
0.25' ABOVE GROUND, AND IS STAMPED "9-L9, 1069".
X = 353,055.34 Y = 1,480,156.08 ELEV. = 5187.036

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DANE HOELZER NEW MEXICO 15800 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

		DATE
DESIGNED BY	DLH	07/00
DRAWN BY	MJR	07/00
CHECKED BY	DMG	07/00

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

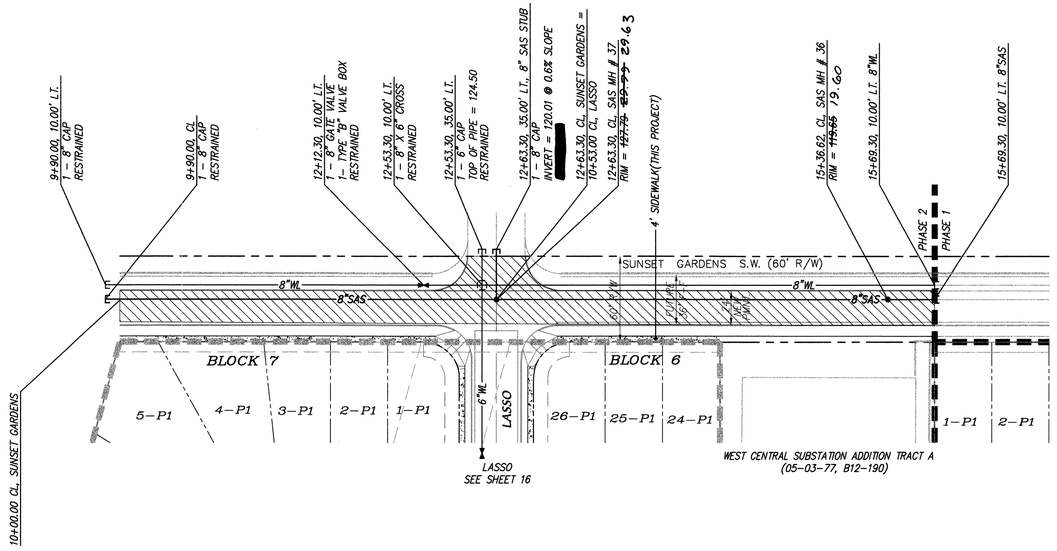
TITLE:

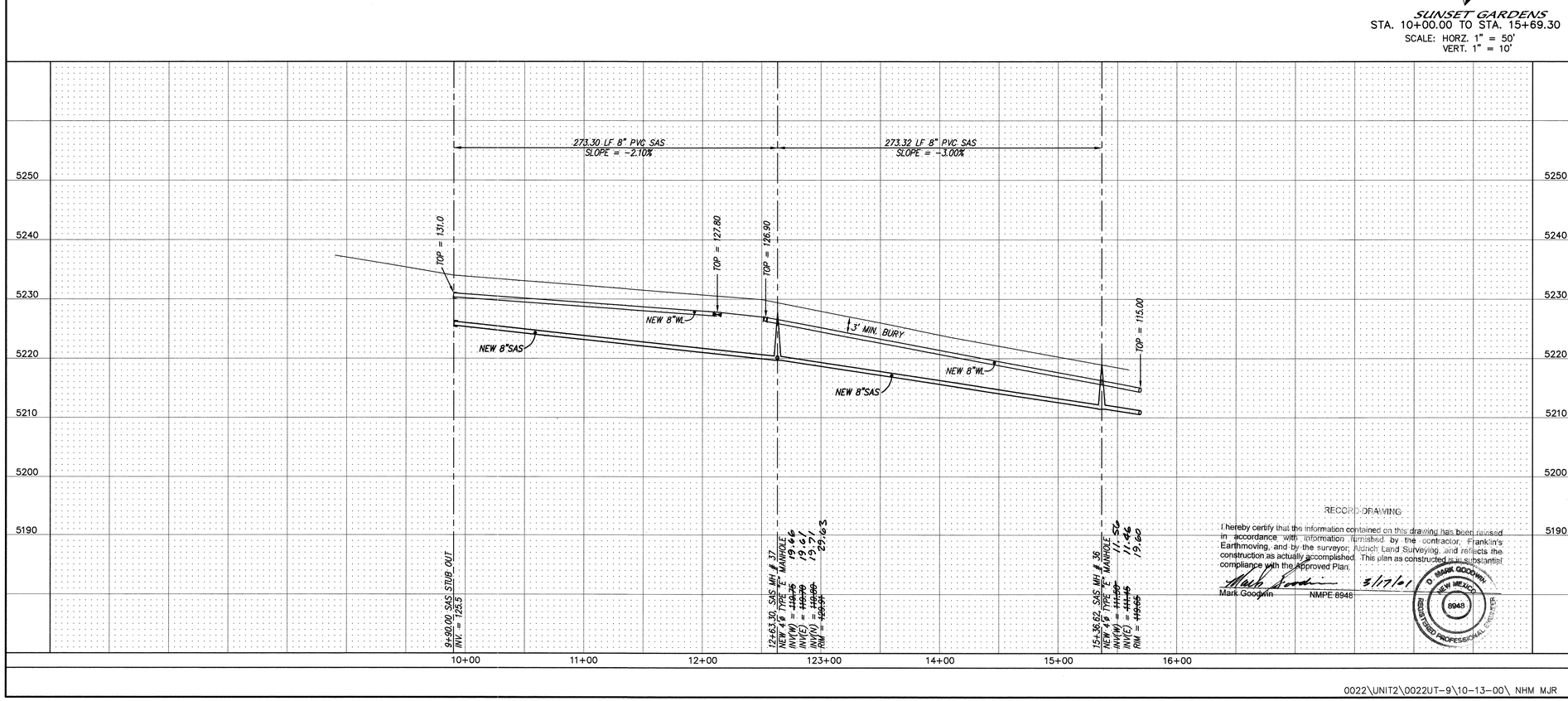
SUNRISE RANCH - UNIT 2
MASTER UTILITY PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
NOV 29 2000 DESIGN REVIEW COMMITTEE	DEC 15 2000 CITY ENGINEER			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
645281	L-8, L-9	12	20

0022/UNIT2/0022MULT/11-06-00/ MJR





NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)					
PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
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'

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Franklin's Earthmoving, and by the surveyor, Aldrich Land Surveying, and reflects the construction as actually accomplished. This plan as constructed is substantial compliance with the Approved Plan.

Mark Goodwin 3/17/01 NMPE 8948

D. MARK GOODWIN NEW MEXICO 8948 REGISTERED PROFESSIONAL ENGINEER

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE

BENCH MARKS

ACS MONUMENT "9-L9". THE STATION IN 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 CNETERLINE OF 98TH ST., AND IS 0.13 MILES NORTH OF RYNO CT., S.W.
THE STATION IS AN ACS 3 1/4" ALUM. CAP RIVETTED 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

AS BUILT INFORMATION

CONTRACTOR STAKES BY	Franklins ACS	DATE 1/01
INSPECTOR'S FIELD VERIFICATION BY	MGH	DATE 3/01
VERIFICATION BY DRAWING	ACS	DATE 3/01
DRAWING CORRECTED BY	MGH	DATE 3/01

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

ENGINEER'S SEAL

DUANE HOELZER NEW MEXICO 10981 REGISTERED PROFESSIONAL ENGINEER 11-15-00

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGNED BY	DLH	07/00
DRAWN BY	MJR	07/00
CHECKED BY	DMG	07/00

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

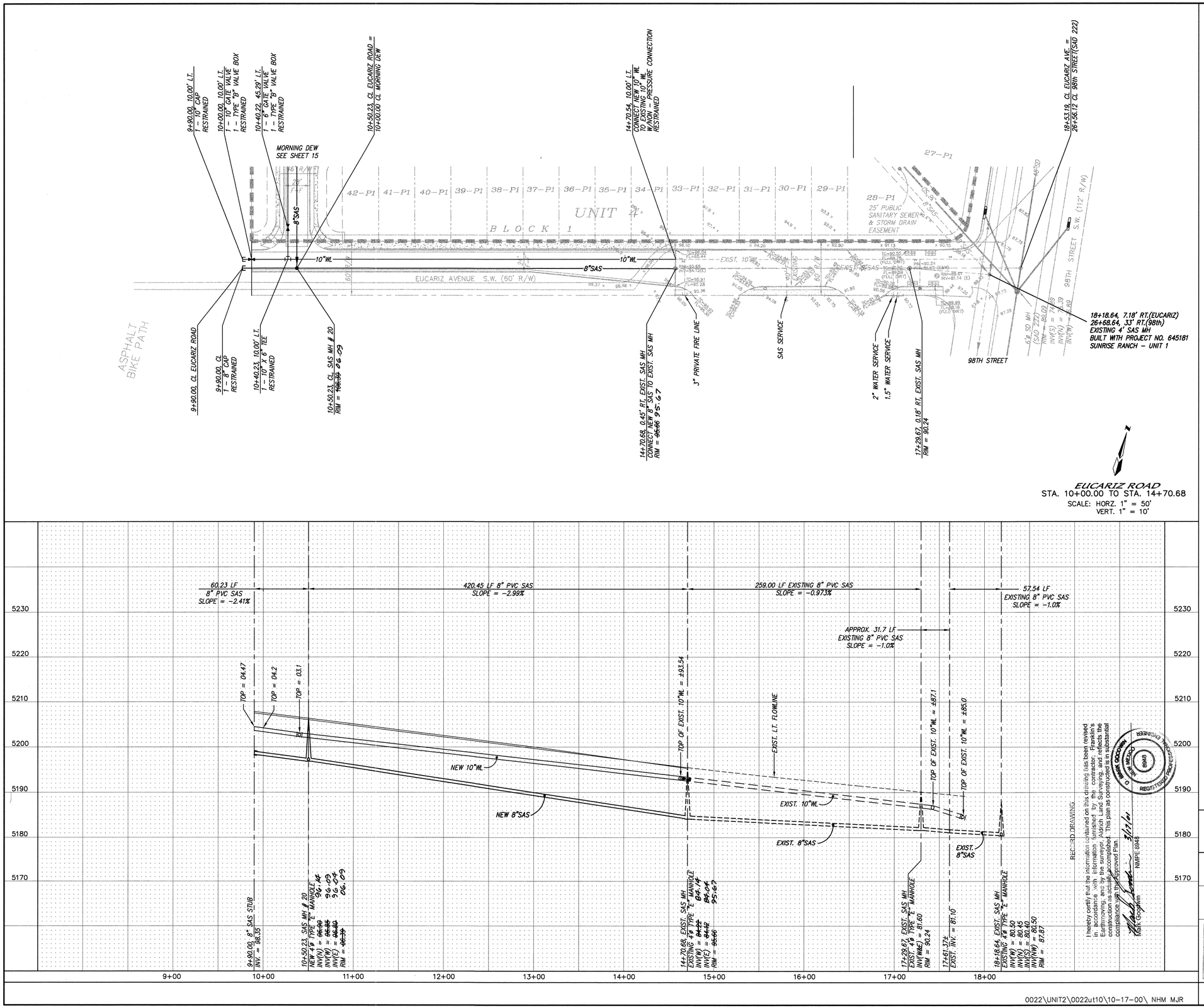
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: SUNRISE RANCH - UNIT 2
SUNSET GARDENS
UTILITY IMPROVEMENTS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
NOV 29 2000	DEC 15 2000			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
645281	L-8, L-9	13	20

0022\UNIT2\0022UT-9\10-13-00\ NHM MJR



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)					
PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
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'

AS BUILT INFORMATION

CONTRACTOR	Franklin's	
WORK STAKED BY	ACS	DATE 1/01
INSPECTOR'S ACCEPTANCE BY	MJM	DATE 3/01
FIELD VERIFICATION BY	ACS	DATE 3/01
DRAWINGS CORRECTED BY	MJM	DATE 3/01
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

BENCH MARKS

ACS MONUMENT "9-L9". THE STATION IN 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 CNETERLINE OF 98TH ST., AND IS 0.13 MILES NORTH OF RYNO 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

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DUANE HOELZER NEW MEXICO 10867 REGISTERED PROFESSIONAL ENGINEER 3/17/01

NO.	DATE	REMARKS	BY

REVISIONS

DESIGNED BY	DLH	DATE 07/00
DRAWN BY	MJR	DATE 07/00
CHECKED BY	DMG	DATE 07/00

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

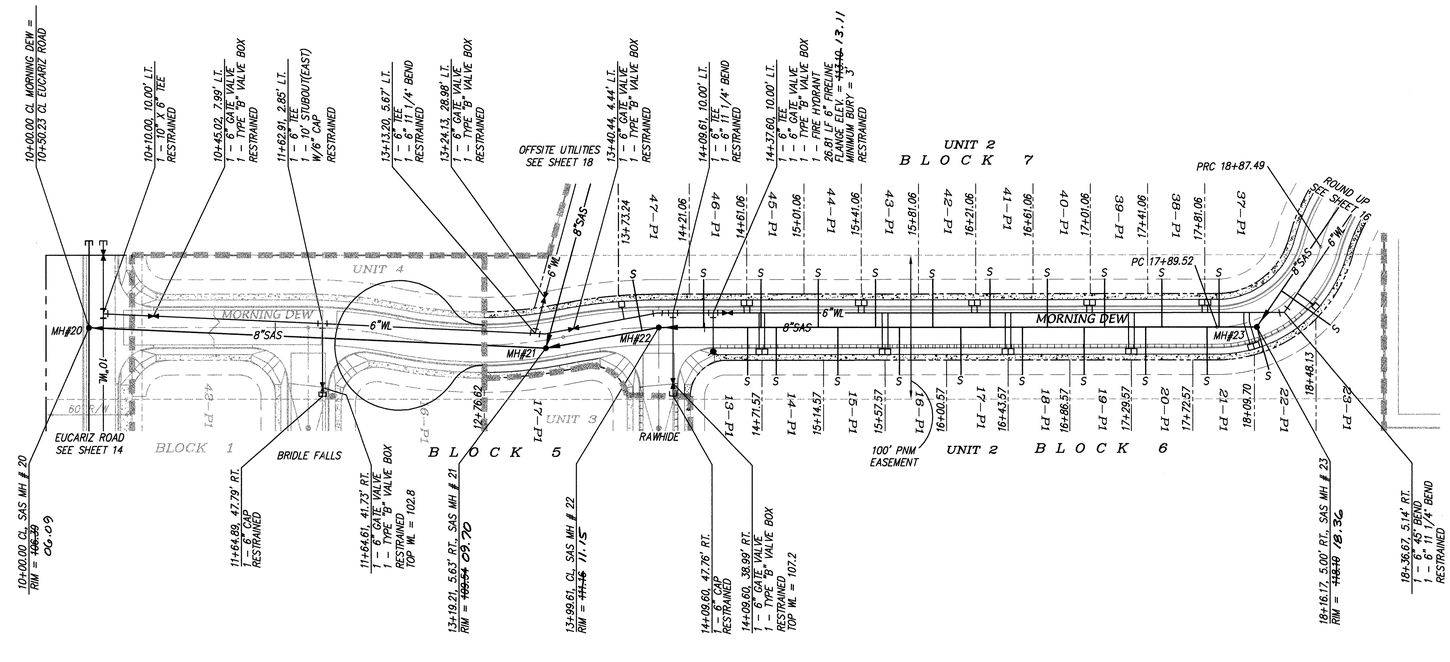
TITLE: SUNRISE RANCH - UNIT 2
EUCARIZ ROAD
UTILITY IMPROVEMENTS

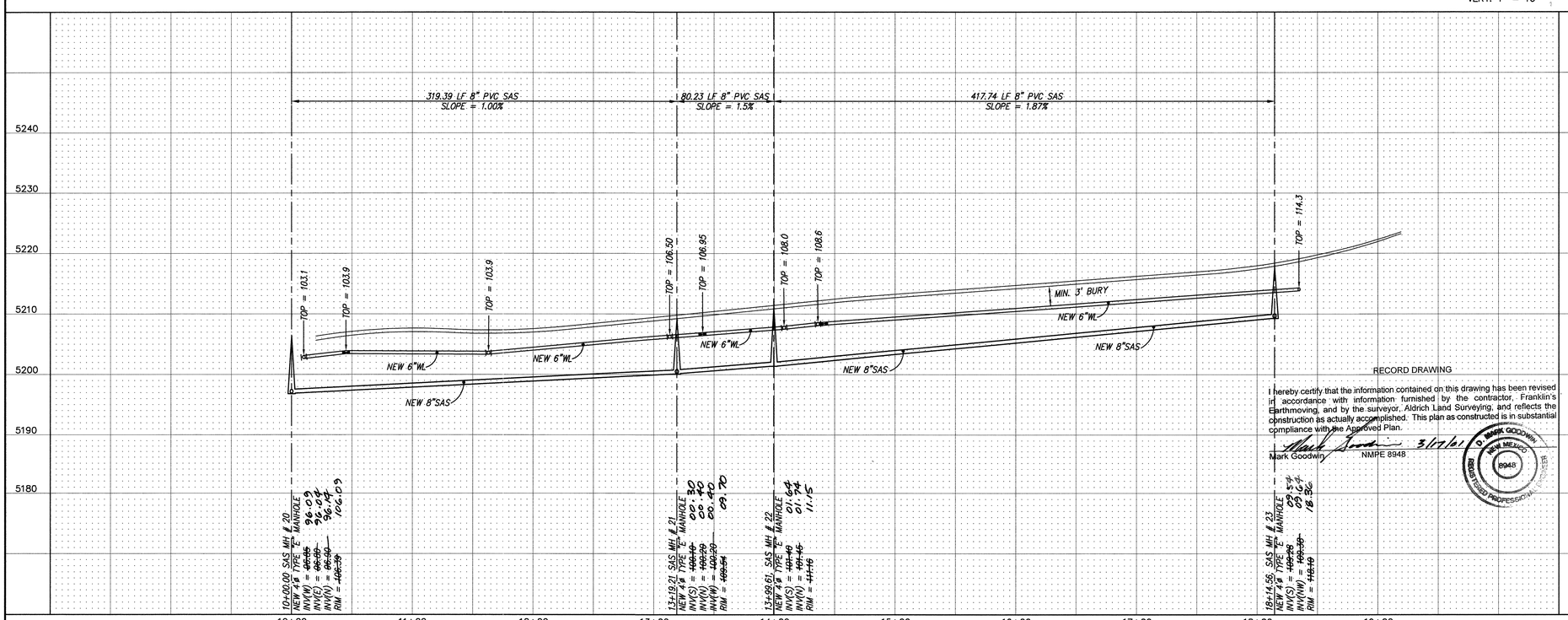
DESIGN REVIEW COMMITTEE: NOV 29 2000 DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL: DEC 15 2000 CITY ENGINEER

LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 645281 | ZONE MAP NO. L-8, L-9 | SHEET 14 OF 20





0022\UNIT2\0022UT-6\10-31-00\ NHM MJR

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

SANITARY SEWER SERVICES

BLOCK	LOT	STATION AT PUE	INV. ELEV. AT PUE	LENGTH AT PUE
6	13–P1	14+61.57	06.66	33.00'
6	14–P1	14+81.57	06.96	33.00'
6	15–P1	15+24.57	07.61	33.00'
6	16–P1	15+67.57	08.25	33.57'
6	17–P1	16+10.57	08.90	37.62'
6	18–P1	16+53.57	09.55	33.00'
6	19–P1	16+96.57	10.19	33.00'
6	20–P1	17+39.57	10.84	33.00'
6	21–P1	17+82.57	11.54	33.00'
6	22–P1	18+14.44	12.34	30.60'
6	23–P1	18+51.08	13.61	41.36'
7	37–P1	17+92.26	11.65	33.00'
7	38–P1	17+51.06	11.01	33.00'
7	39–P1	17+11.06	10.41	33.00'
7	40–P1	16+71.06	09.81	33.00'
7	41–P1	16+31.06	09.21	33.76
7	42–P1	15+91.06	08.61	37.77'
7	43–P1	15+51.06	08.01	33.00'
7	44–P1	15+11.06	07.41	33.00'
7	45–P1	14+71.06	06.81	33.00'
7	46–P1	14+31.06	06.50	33.00'
7	47–P1	13+83.08	05.54	35.28'

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'
5200	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'

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Franklin's Earthmoving, and by the surveyor, Aldrich Land Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

Mark Goodwin 3/17/01 D. MARK GOODWIN NEW MEXICO 8948 REGISTERED PROFESSIONAL ENGINEER

Mark Goodwin NMPE 8948

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

AS BUILT INFORMATION

CONTRACTOR: Franklins
WORK STAKED BY: ALS DATE 1/1
INSPECTOR'S ACCEPTANCE BY: MGW DATE 3/1/01
FIELD VERIFICATION BY: ALS DATE 3/1/01
DRAWINGS CORRECTED BY: MGW DATE 3/1/01

MICRO–FILM INFORMATION

RECORDED BY DATE
NO.

BENCH MARKS

ACS MONUMENT "9–L9". THE STATION IN 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 CNETERLINE OF 98TH ST., AND IS 0.13 MILES NORTH OF RYNO CT., S.W.
THE STATION IS AN ACS 3 1/4" ALUM. CAP RIVETTED 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

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DUANE HOELZER NEW MEXICO 11967 PROFESSIONAL ENGINEER REGISTERED 1-5-00

NO.	DATE	REMARKS	BY

REVISIONS

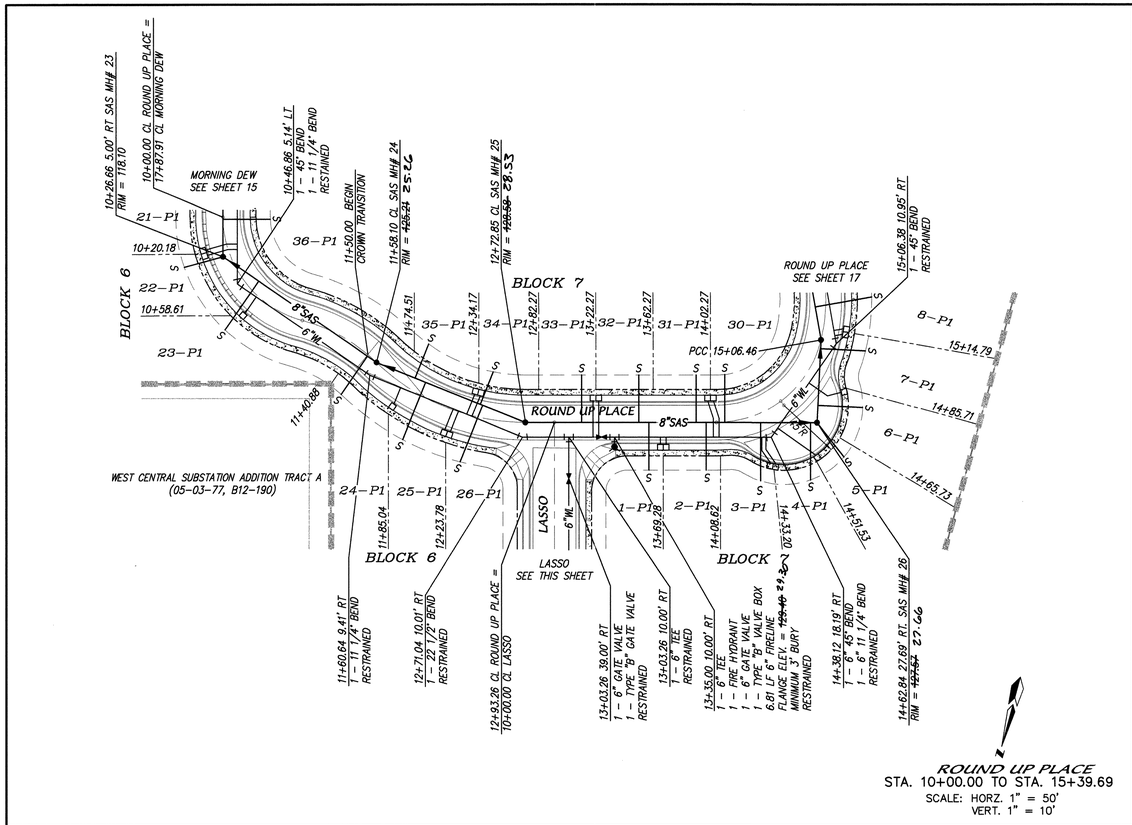
DESIGN	DLH	DATE 07/00
DRAWN BY	MJR	DATE 07/00
CHECKED BY	DMG	DATE 07/00

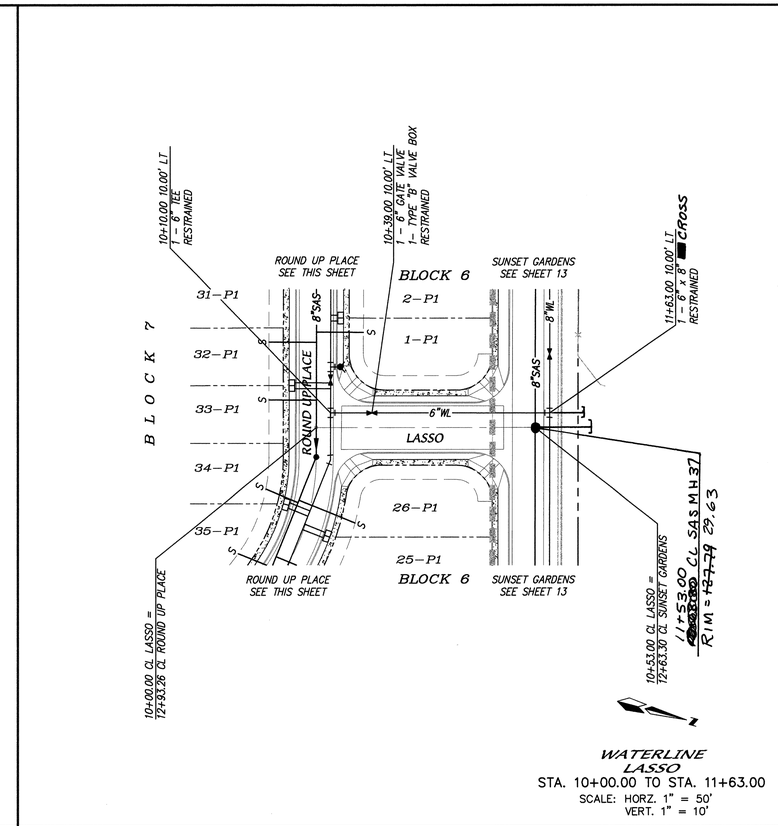
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

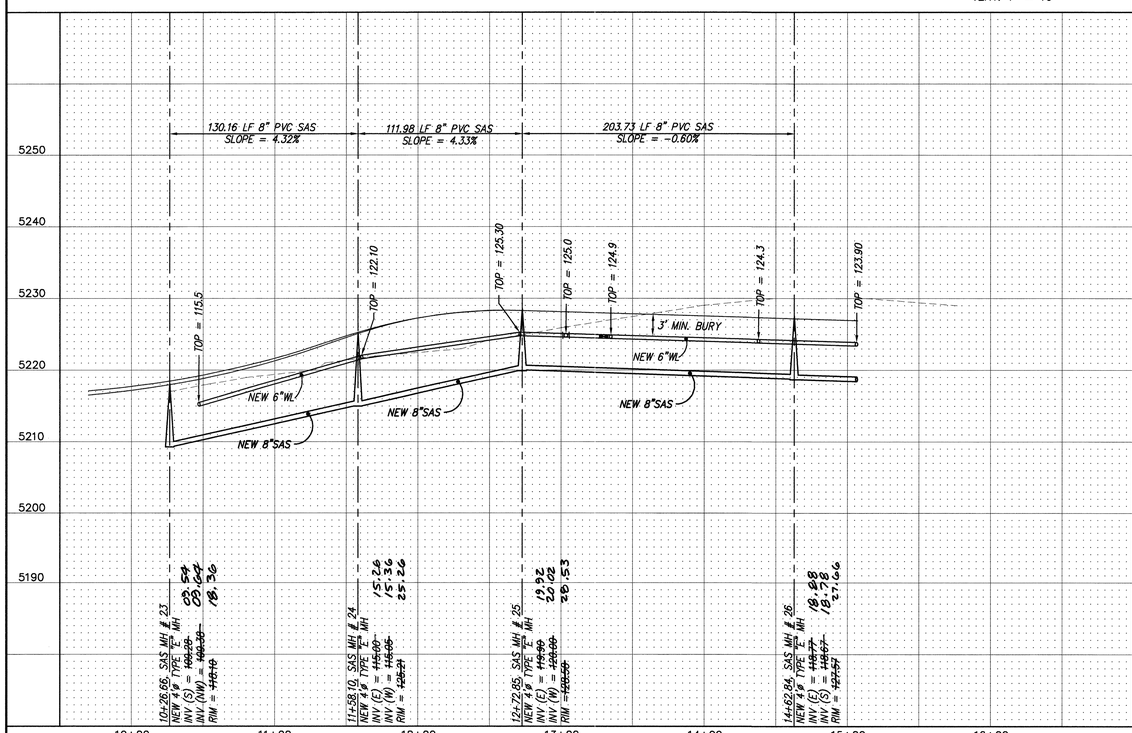
TITLE: SUNRISE RANCH - UNIT 2
MORNING DEW
UTILITY IMPROVEMENTS

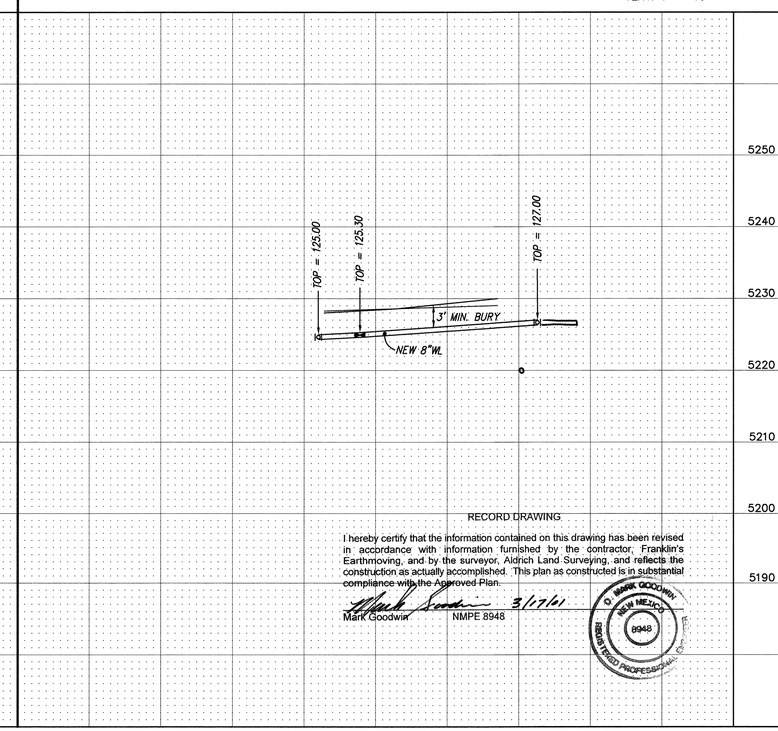
DESIGN REVIEW COMMITTEE: REVIEWED NOV 29 2000
CITY ENGINEER APPROVAL: DEC 15 2000 CITY ENGINEER
LAST DESIGN UPDATE: MO./DAY/YR. MO./DAY/YR.

CITY PROJECT NO. 645281 | ZONE MAP NO. L-8, L-9 | SHEET 15 OF 20









NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

SANITARY SEWER SERVICES

BLOCK	LOT	STATION AT PUE	INV. ELEV. AT PUE	LENGTH AT PUE
6	22-P1	10+25.03	12.30	28.07'
6	23-P1	10+61.57	13.44	41.36'
6	24-P1	11+54.70	16.03	32.20'
6	25-P1	11+99.85	17.66	42.85'
6	26-P1	12+35.09	19.01	42.28'
7	1-P1	13+59.28	23.47	33.00'
7	2-P1	13+99.28	25.30	33.00'
7	3-P1	14+26.01 (44.60' RT)	25.91	40.55'
7	4-P1	14+45.61 (57.21' RT)	26.13	39.78'
7	5-P1	14+61.49 (57.83' RT)	26.17	30.22'
7	6-P1	14+81.92 (57.83' RT)	26.03	33.56'
7	3-P1	14+16.82 (32.87' LT)	25.74	33.27'
7	31-P1	13+92.25	24.88	33.00'
7	32-P1	13+52.25	23.56	33.00'
7	33-P1	13+12.25	22.01	33.00'
7	34-P1	12+43.95	19.35	24.26'
7	35-P1	11+80.71	16.98	25.29'
7	36-P1	10+01.54	~~11.68~~ 16.68	33.00'

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

PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
6"	17'	7'	–	–	46'
8"	22'	9'	4'	2'	60'

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
8"x8"x6"	7'	5'
6"x6"x6"	10'	2'

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Franklin's Earthmoving, and by the surveyor, Aldrich Land Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

Mark Goodwin 3/17/01
Mark Goodwin NMPE 8948

MARK GOODWIN NEW MEXICO 8948 REGISTERED PROFESSIONAL ENGINEER

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 2
ROUND UP PLACE & LASSO
UTILITY IMPROVEMENTS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVE NOV 29 2000 DESIGN REVIEW COMMITTEE	DEC 15 2000 CITY ENGINEER	LAST DESIGN UPDATE	

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
645281	L-8, L-9	16	20

0022\UNIT2\0022UT-7\11-04-00\NHM MJR

AS BUILT INFORMATION
CONTRACTOR Franklin's
WORK STAKED BY ALDRICH LAND SURVEYS DATE 1/01
AS-BUILTS MARKED BY NHM DATE 3/01
ACCEPTANCE BY RLS DATE 3/01
VERIFICATION BY NHM DATE 3/01
DRAWINGS CORRECTED BY
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

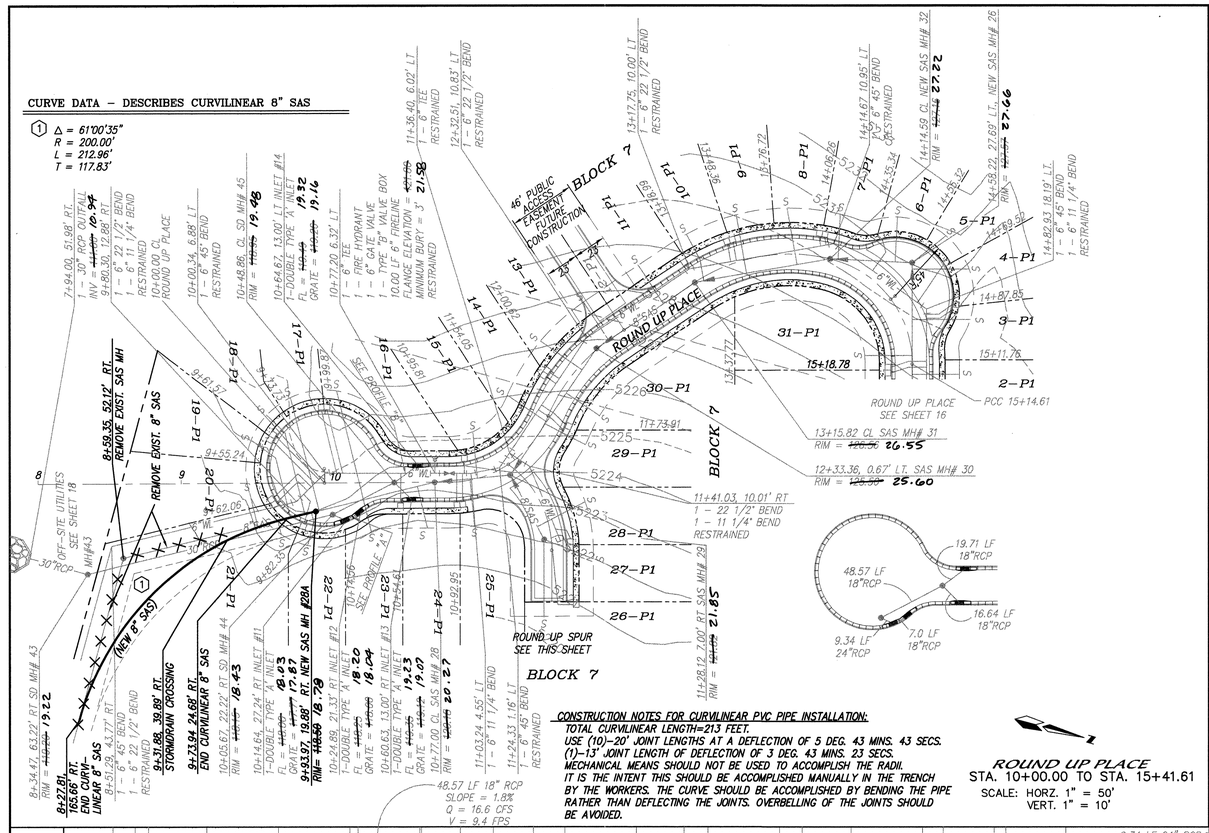
BENCH MARKS
ACS MONUMENT "9-L9". THE STATION IS LOCATED 5.3 MILES SOUTHWEST OF DOWNTOWN ALBUQUERQUE. TO REACH THE STATION FROM THE INTERSECTION OF I-40 AND 98TH ST., TRAVEL SOUTH ON 98TH ST. 1.3 MILES TO THE STATION ON THE LEFT. THE STATION IS 49.2' EAST OF THE ONETERLINE OF 98TH ST., AND IS 0.13 MILES NORTH OF RINO CT., S.W.
THE STATION IS AN ACS 3 1/4" ALUM. CAP RIVETTED 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
DAVID HOELZER NEW MEXICO 1967 REGISTERED PROFESSIONAL ENGINEER
11-5-00

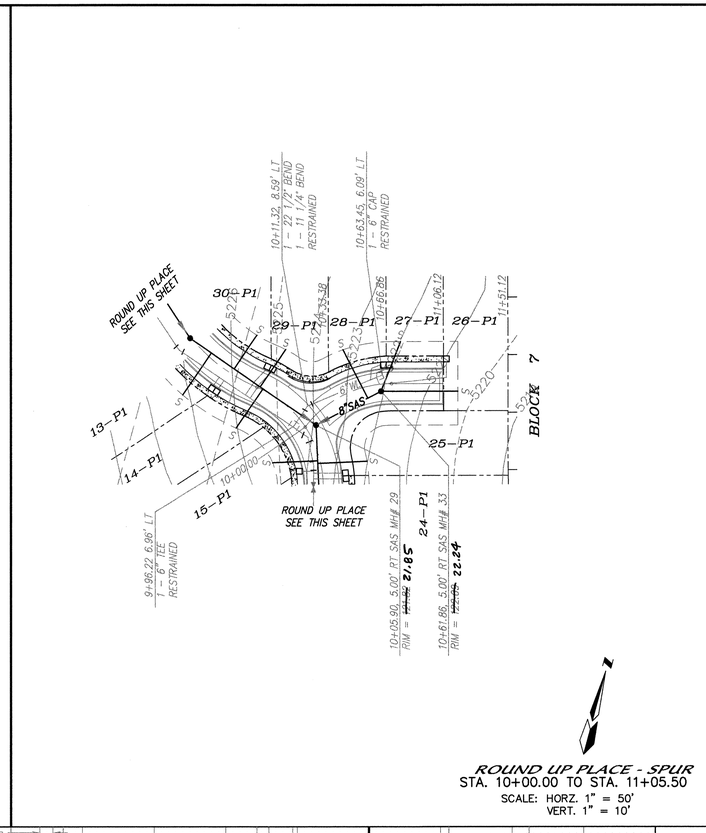
SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY	DLH	DATE 07/00
DRAWN BY	MJR	DATE 07/00
CHECKED BY	DMG	DATE 07/00



ROUND UP PLACE
STA. 10+00.00 TO STA. 15+41.61
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'



ROUND UP PLACE - SPUR
STA. 10+00.00 TO STA. 11+05.50
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

SANITARY SEWER SERVICES – ROUND UP PLACE

BLOCK	LOT	STATION AT PUE	INV. ELEV. AT PUE	LENGTH AT PUE
7	7–P1	14+14.59	25.60	31.52'
7	8–P1	13+84.68	24.73	40.02'
7	9–P1	13+56.26	23.86	41.60'
7	10–P1	13+26.69	22.96	35.28'
7	11–P1	12+89.57	22.00	32.00'
7	13–P1	12+12.05	19.47	35.21'
7	14–P1	11+77.22	18.40	33.27'
7	15–P1	11+16.84	16.56	32.69'
7	16–P1	10+08.92 (64.28' LT)	14.75	78.36'
7	17–P1	9+76.53 (59.73' LT)	14.91	82.31'
7	18–P1	9+59.70 (47.39' LT)	14.58	79.03'
7	19–P1	9+48.96 (30.43' ~~RT~~ LT)	13.70	68.13'
7	20–P1	9+47.82 (7.29' RT)	13.94	23.00'
7	21–P1	9+69.59 (35.81' RT)	14.38	9.81'
7	22–P1	9+87.98 (43.66' RT)	14.61	16.84'
7	23–P1	10+32.55	13.24	~~23.00'~~ 35'
7	24–P1	10+~~64.77~~+73	15.97	~~28.23'~~ 32'
7	25–P1	10+99.45	16.04	33.00'
7	~~26–P1~~ 29–P1	11+69.32	18.16	32.00'
7	~~29–P1~~ 30–P1	11+94.26	18.92	28.12'

SANITARY SEWER SERVICES – SPUR

BLOCK	LOT	STATION AT PUE	INV. ELEV. AT PUE	LENGTH AT PUE
7	26–P1	11+16.12 (5.40' RT)	17.86	53.72'
7	27–P1	10+76.08 (29.00' LT)	17.44	37.01'
7	28–P1	10+44.92 (29.00' LT)	17.11	37.69'

AS BUILT INFORMATION

CONTRACTOR	Franklin's	
WORK STAKED BY	ALS	DATE 1/01
INSPECTOR'S ACCEPTANCE BY	MGA	DATE 3/01
FIELD VERIFICATION BY	ALS	DATE 3/01
DRAWINGS CORRECTED BY	MGA	DATE 3/01

MICRO–FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

ACS MONUMENT "9–L9". THE STATION IN 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 CNETERLINE OF 98TH ST., AND IS 0.13 MILES NORTH OF RYNO 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

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

LANE HOELZER NEW MEXICO 15987 REGISTERED PROFESSIONAL ENGINEER
10-16-2

NO.	DATE	REMARKS	BY
1	2-20-01	replace sheet 17 SAS only	DLH

REVISIONS

DESIGNED BY	DLH	DATE 07/00
DRAWN BY	MJR	DATE 07/00
CHECKED BY	DMG	DATE 07/00

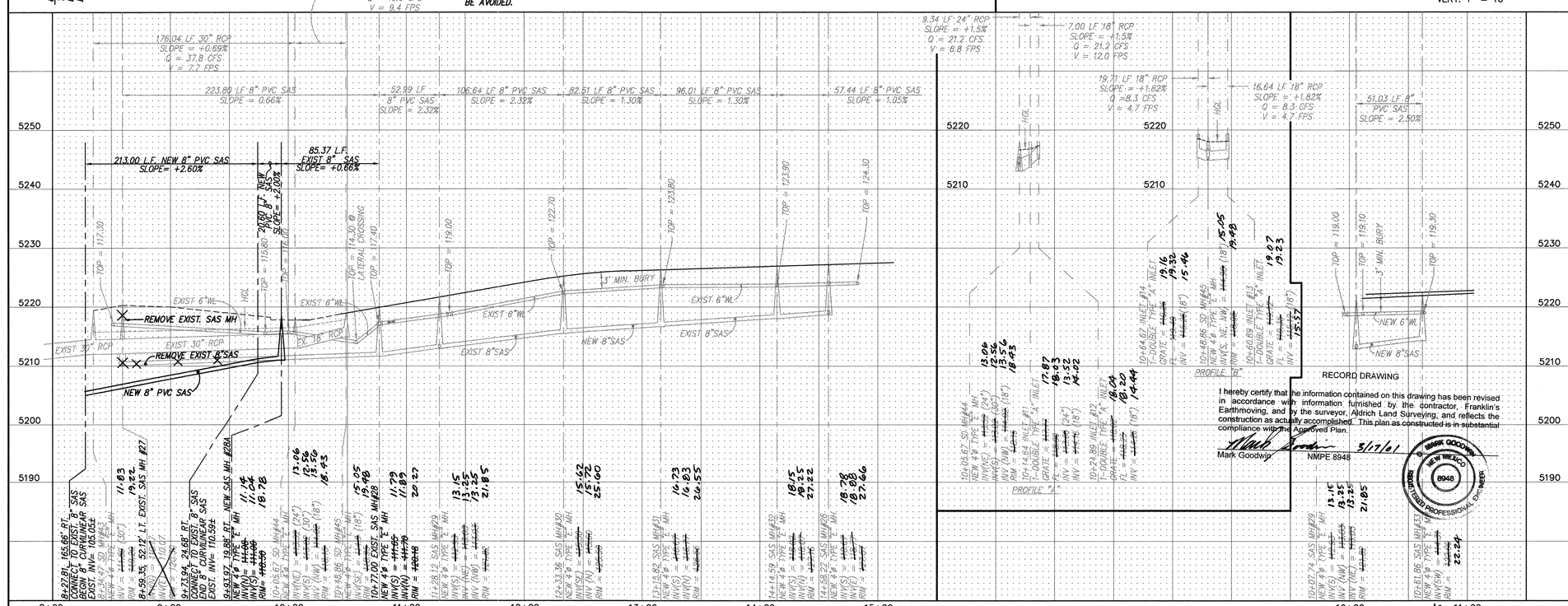
RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)

PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
6"	17'	7'	–	–	46'

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

RESTRAINED JOINT LENGTH FOR TEES (FT.)

PIPE SIZE	RUN	BRANCH
6"x6"x6"	10'	2'



RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Franklin's Earthmoving, and by the surveyor, Aldrich Land Surveying, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

Mark Goodwin 5/17/01
Mark Goodwin NMPE 8948

MARK GOODWIN NEW MEXICO 8948 REGISTERED PROFESSIONAL ENGINEER

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 2
ROUND UP PLACE & SPUR
UTILITY IMPROVEMENTS

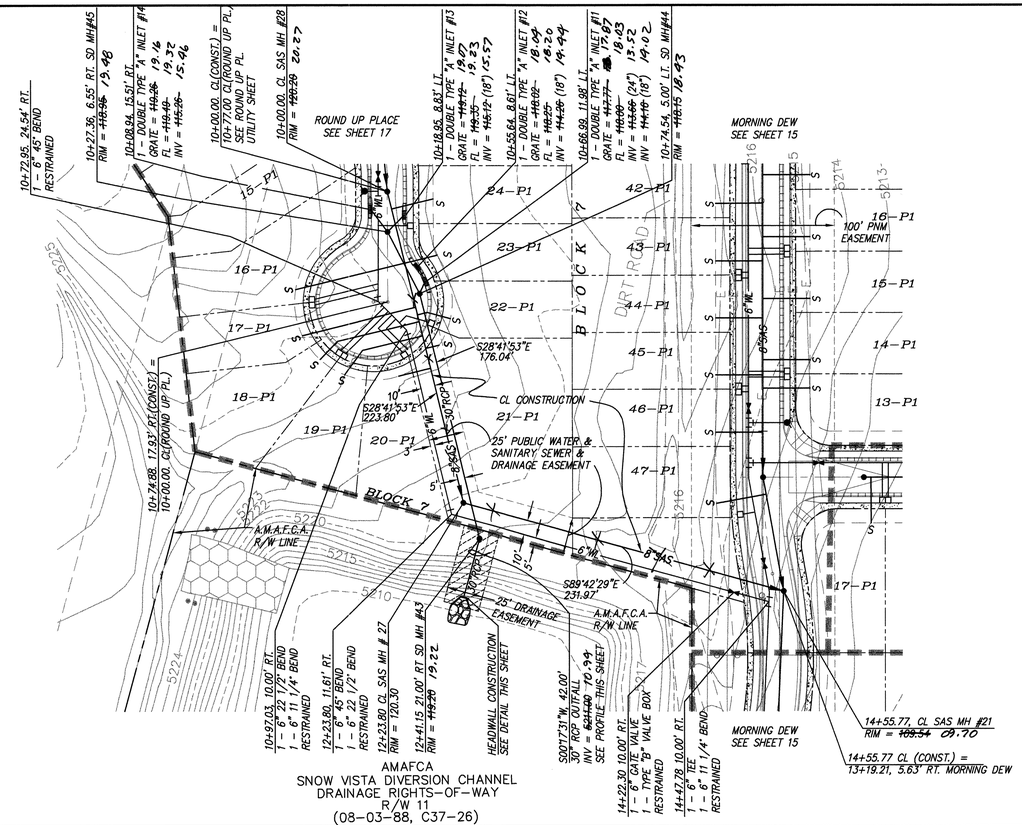
DESIGN REVIEW COMMITTEE: APPROVED FEB 26 2001 DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL: APPROVED FEB 27 2001 CITY ENGINEER

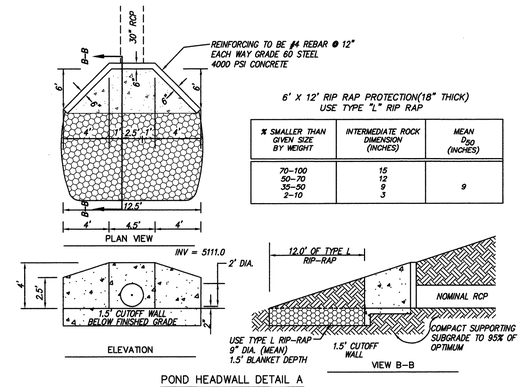
LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

0022\UNIT2\0022UT–8A\02–14–01\MJR KJS

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
645281	L-8, L-9	17A	20



AMAFCA
SNOW VISTA DIVERSION CHANNEL
DRAINAGE RIGHTS-OF-WAY
R/W 11
(08-03-88, C37-26)



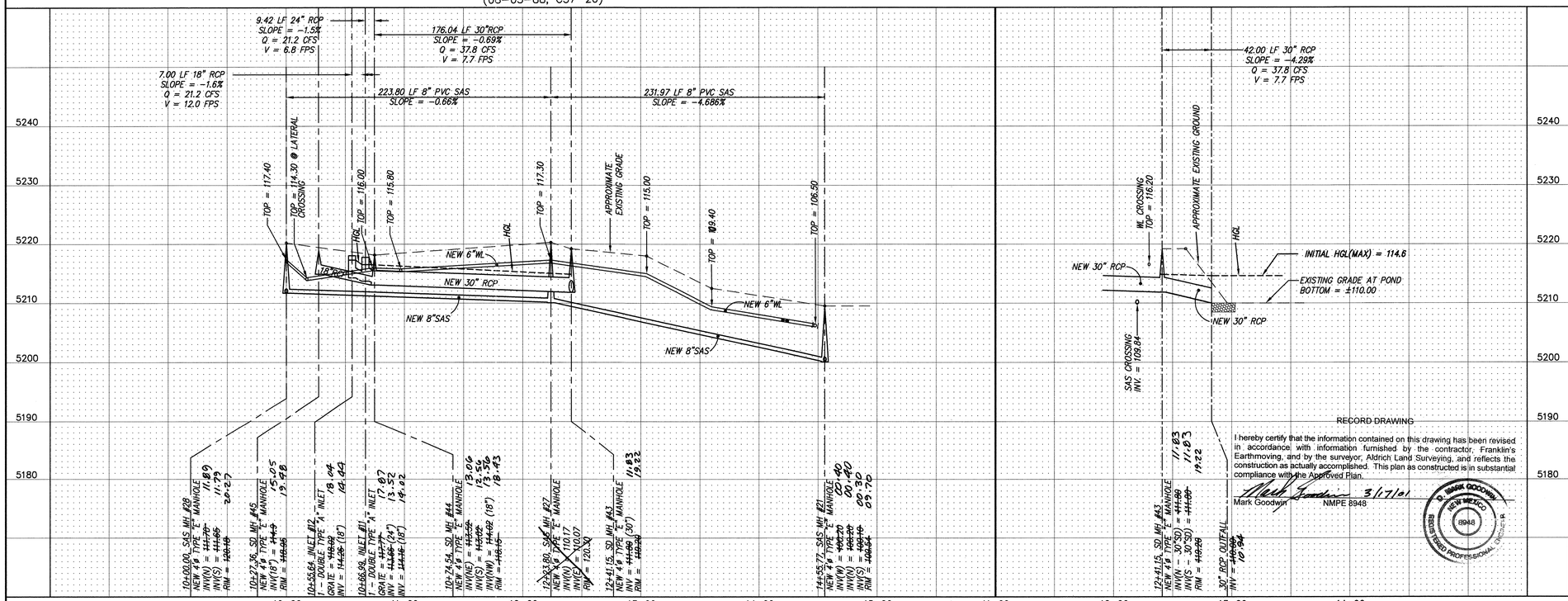
6' X 12' RIP RAP PROTECTION(18" THICK)
USE TYPE "L" RIP RAP

% SMALLER THAN GIVEN SIZE BY WEIGHT	INTERMEDIATE ROCK DIMENSION (INCHES)	MEAN D_{50} (INCHES)
70–100	15	
50–70	12	
35–50	9	9
2–10	3	

POND HEADWALL DETAIL A

NOT TO SCALE

OFFSITE UTILITIES & STORM DRAIN
STA. 9+93.37 TO STA. 14+78.85
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'



RECORD DRAWING

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Mark Goodwin 3/7/01
Mark Goodwin NMPE 8948

MARK GOODWIN NEW MEXICO 8948 REGISTERED PROFESSIONAL ENGINEER

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

NOTES

1. AMAFCA FIELD ENGINEER SHALL BE NOTIFIED 48-HOURS PRIOR TO ANY WORK WITHIN THE AMAFCA R/W. TEL 884-2215 JERRY LOVATO.
2. NO WORK WILL BE PERFORMED IN THE AMAFCA R/W BETWEEN APRIL 15 AND OCTOBER 15 WITHOUT WRITTEN PERMISSION FORM AMAFCA.
3. ALL SUBGRADE, BACKFILL AND EMBANKMENT SHALL BE COMPACTED TO 95% (MODIFIED PROCTOR) WITHIN AMAFCA R/W. TESTING REPORTS SHALL BE PROVIDED TO AMAFCA FIELD ENGINEER.
4. AMAFCA FIELD ENGINEER WILL BE NOTIFIED 48-HOURS PRIOR TO FINAL INSPECTION OF ANY FACILITIES WITHIN THE AMAFCA R/W.

APPROVED FOR CONSTRUCTION

Donald S. Shelton 11/18/00
FOR AMAFCA DATE

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'

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 2
OFFSITE UTILITY & STORM DRAIN
UTILITY & STORM DRAIN IMPROVEMENTS

DESIGN REVIEW COMMITTEE: APPROVED NOV 29 2000 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: DEC 15 2000
MO./DAY/YR. | MO./DAY/YR.
LAST DESIGN UPDATE

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY DLH DATE 07/00
DRAWN BY MJR DATE 07/00
CHECKED BY DMG DATE 07/00

CITY PROJECT NO. 645281 | ZONE MAP NO. L-8, L-9 | SHEET 18 OF 20

0022\UNIT2\0022ut13\11-16-00\MJR NHM

AS BUILT INFORMATION
CONTRACTOR Franklin's
WORK STAKED BY ALS DATE 1/01
INSPECTOR'S ACCEPTANCE BY MGA DATE 3/1
FIELD VERIFICATION BY ALS DATE 3/1
DRAWINGS CORRECTED BY MGA DATE 3/1
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS MONUMENT "9-G9". THE STATION IN 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 CNETERLINE OF 98TH ST., AND IS 0.13 MILES NORTH OF RYND CT., S.W.
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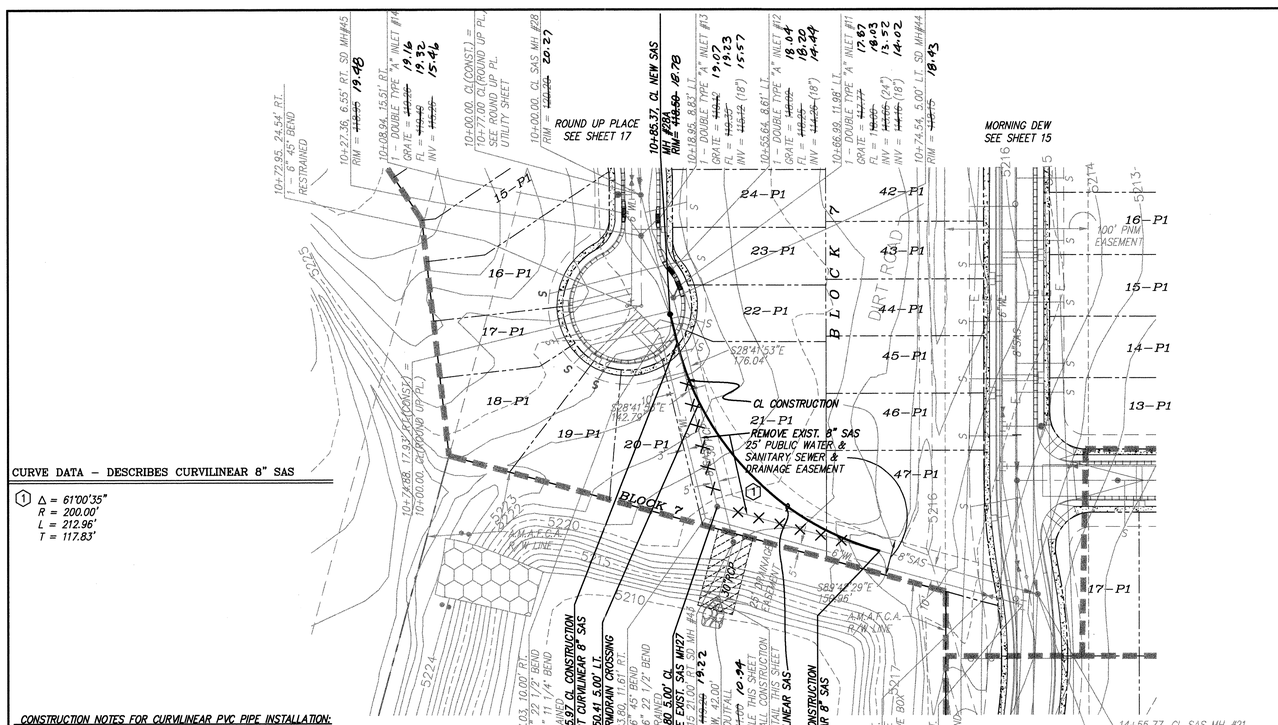
X = 353,055.34 Y = 1,480,156.08 ELEV. = 5187.036

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
DANE HOELZER NEW MEXICO 8984 REGISTERED PROFESSIONAL ENGINEER
11-16-00

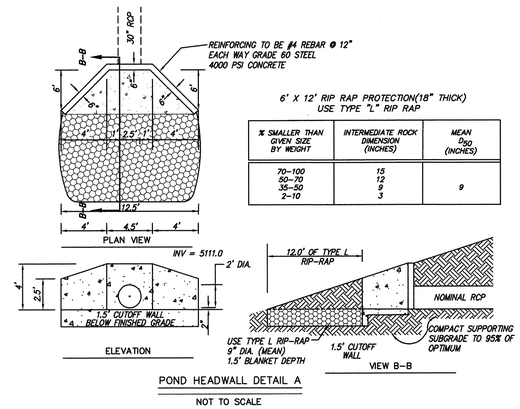


CURVE DATA – DESCRIBES CURVILINEAR 8" SAS

(1) Δ = 61°00'35"
R = 200.00'
L = 212.96'
T = 117.83'

CONSTRUCTION NOTES FOR CURVILINEAR PVC PIPE INSTALLATION:
TOTAL CURVILINEAR LENGTH=213 FEET.
USE (10)–20' JOINT LENGTHS AT A DEFLECTION OF 5 DEG. 43 MINS. 43 SECS.
(1)–13' JOINT LENGTH OF DEFLECTION OF 3 DEG. 43 MINS. 23 SECS.
MECHANICAL MEANS SHOULD NOT BE USED TO ACCOMPLISH THE RADII.
IT IS THE INTENT THIS SHOULD BE ACCOMPLISHED MANUALLY IN THE TRENCH BY THE WORKERS. THE CURVE SHOULD BE ACCOMPLISHED BY BENDING THE PIPE RATHER THAN DEFLECTING THE JOINTS. OVERBELLING OF THE JOINTS SHOULD BE AVOIDED.

AMAFCA
SNOW VISTA DIVERSION CHANNEL
DRAINAGE RIGHTS-OF-WAY
R/W 11
(08-03-88, C37-26)



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POND HEADWALL DETAIL A

NOT TO SCALE

OFFSITE UTILITIES & STORM DRAIN
STA. 9+93.37 TO STA. 14+78.85
SCALE: HORZ. 1" = 50'
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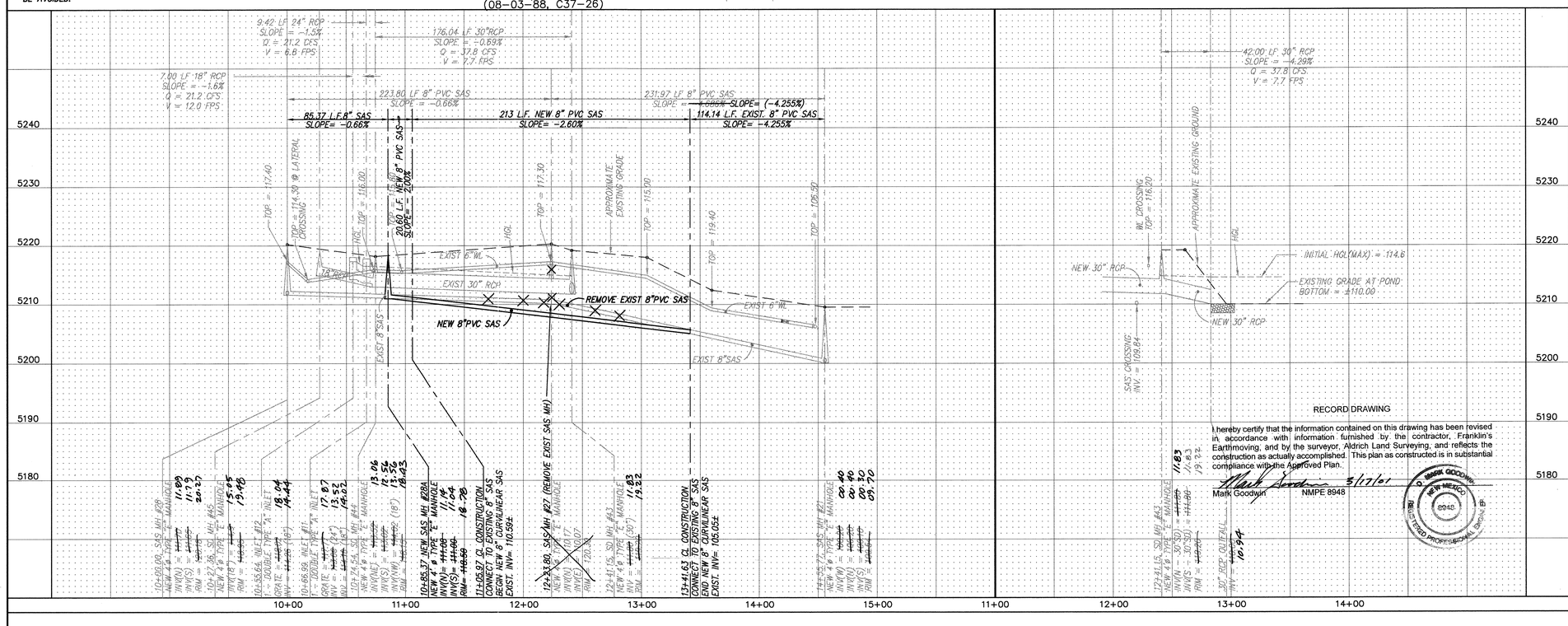

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Mark Goodwin 3/7/01
Mark Goodwin NMPE 8948

D. MARK GOODWIN NEW MEXICO 8948 REGISTERED PROFESSIONAL ENGINEER

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

NOTES

1. AMAFCA FIELD ENGINEER SHALL BE NOTIFIED 48–HOURS PRIOR TO ANY WORK WITHIN THE AMAFCA R/W. TEL 884–2215 JERRY LOVATO.
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APPROVED FOR CONSTRUCTION

FOR AMAFCA DATE

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

PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
6"	17'	7'	3'	2'	46'
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PIPE SIZE	RUN	BRANCH
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AS BUILT INFORMATION

CONTRACTOR	Franklin's	
WORK STAKED BY	ALS	DATE 1/01
INSPECTOR'S ACCEPTANCE BY	MGA	DATE 2/01
FIELD VERIFICATION BY	ALS	DATE 3/01
DRAWINGS CORRECTED BY	MGA	DATE 5/01

BENCH MARKS
ACS MONUMENT "9–L9". THE STATION IN 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 ONETERLINE OF 98TH ST., AND IS 0.13 MILES NORTH OF RYNO CT., S.W.
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X = 353,055.34 Y = 1,480,156.08 ELEV. = 5187.036

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
JAMES HOELLER NEW MEXICO 12867 REGISTERED PROFESSIONAL ENGINEER
2-16-01

NO.	DATE	REMARKS	BY
1	2-20-01	replaces SAS only on sht 18	DLH

REVISIONS

DESIGNED BY	DLH	DATE 07/00
DRAWN BY	MJR	DATE 07/00
CHECKED BY	DMG	DATE 07/00

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 2
OFFSITE UTILITY & STORM DRAIN
UTILITY & STORM DRAIN IMPROVEMENTS

DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 645281 | ZONE MAP NO. L-8, L-9 | SHEET 18A OF 20

0022\UNIT2\0022ut13A\02-14-00\MJR NHM KJS

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

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

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

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

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

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

6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.

8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.

9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.

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

11. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24HOUR PER DAY BASIS UNTIL COMPLETED. 1

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. 2 48 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

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

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

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

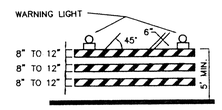
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

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

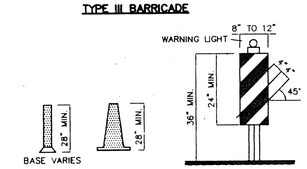
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGTH AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D. 3

27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY. 4



TYPE III BARRICADE

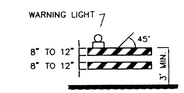


CONES — VERTICAL PANEL — HIGH LEVEL WARNING DEVICE

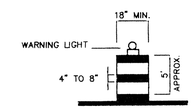
LEGEND

- WORK AREA
- BARRICADE – TYPE I, TYPE II, OR BARREL
- BARRICADE – TYPE III
- X VERTICAL PANEL
- WARNING SIGN
- D DISTANCE BETWEEN SIGNS – A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
- FLAGMAN POSITION
- S SPACING BETWEEN BARRICADES– A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
- L TAPER LENGTH – SEE CHART BELOW

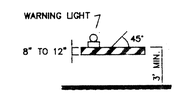
THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.



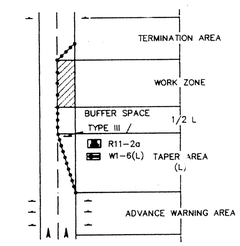
TYPE II BARRICADE COLLAPSIBLE



BARREL



TYPE I BARRICADE COLLAPSIBLE



TRAFFIC CONTROL ELEMENTS

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

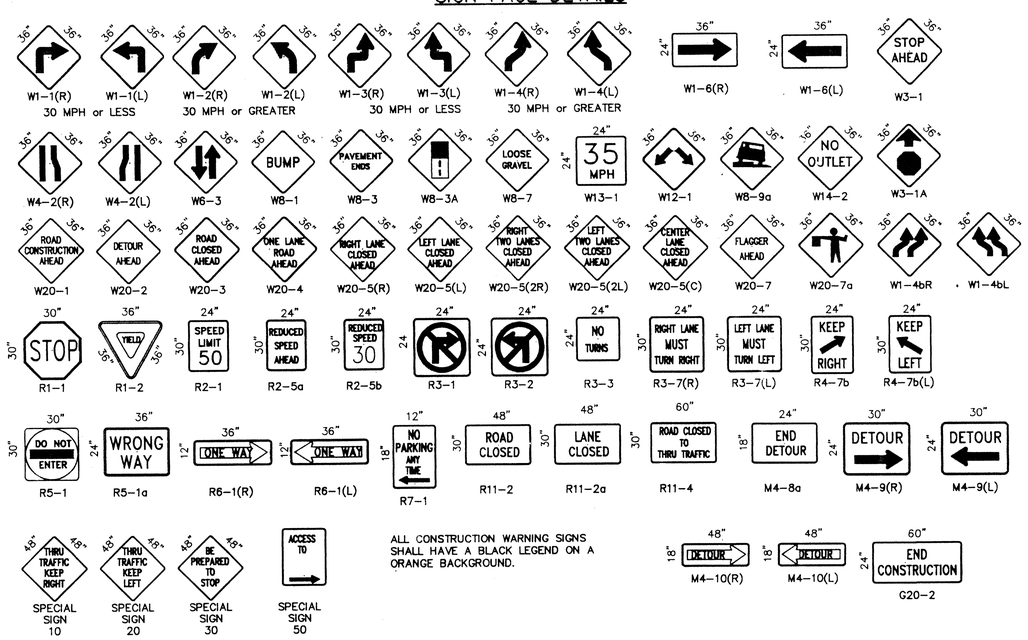
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

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
CONTRACTOR Franklin's DATE
WORK STAKED BY NICHOLAS DATE 1/6/
INSPECTOR ACCEPTANCE BY MGM DATE 7/6/
FIELD VERIFICATION BY RLS DATE 7/6/
DRAWINGS CORRECTED BY MGM DATE 7/6/
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
ELADIO R. ROJAS NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 15984

NO.	DATE	REMARKS	BY
4	9/25/97	ADD NOTE NO. 27	J.D.L.
3	9/24/97	REVISED NOTE NO. 26	J.D.L.
2	9/24/97	REVISED NOTE NO. 19	J.D.L.
1	9/24/97	REVISED NOTE NO. 11	J.D.L.

REVISIONS
DESIGN
DESIGNED BY DATE
DRAWN BY C.O.A. STANDARDS DATE
CHECKED BY DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

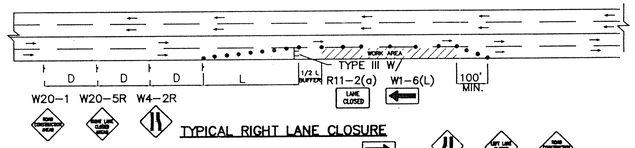
TITLE: **SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS**

DESIGN REVIEW COMMITEE	CITY ENGINEER APPROVAL	LAST UPDATE	MO./DAY/YR.	MO./DAY/YR.
C O A Standard				

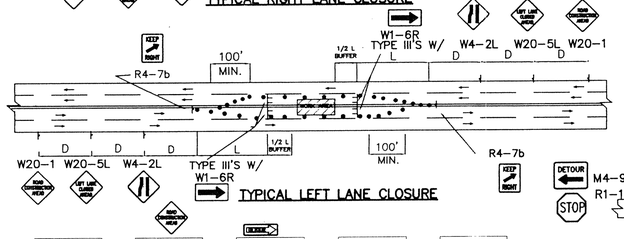
PROJECT NO. 645281 | MAP NO. L-8/9 | SHEET 19 OF 20

SCANNED BY MESA REPRO

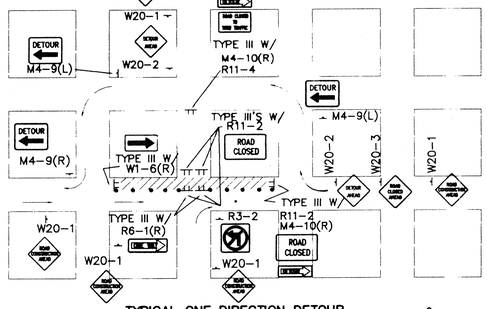
CTCSTND1.DWG



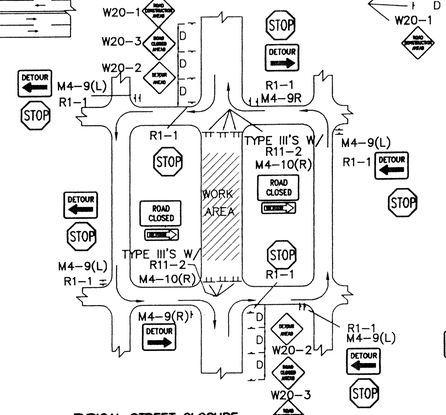
TYPICAL RIGHT LANE CLOSURE



TYPICAL LEFT LANE CLOSURE



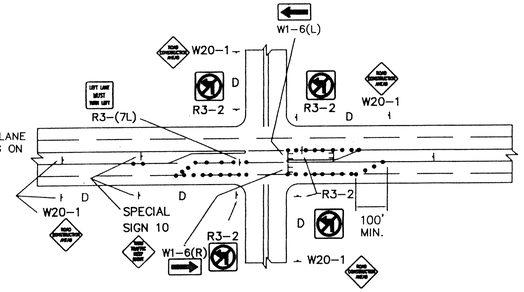
TYPICAL ONE DIRECTION DETOUR



TYPICAL STREET CLOSURE

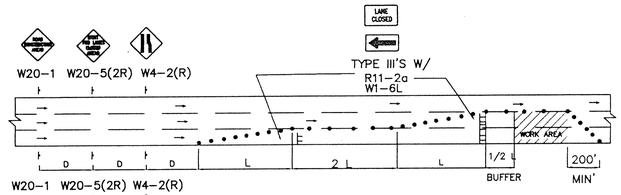
NOTE: (R1-1) BASED ON FIELD CONDITIONS.

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

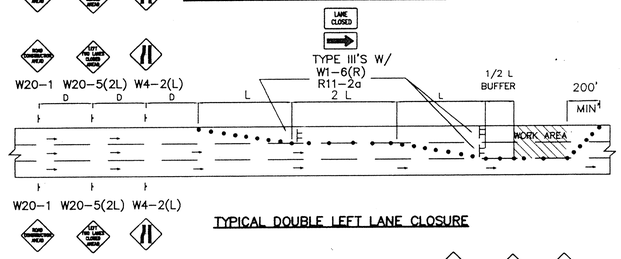


TYPICAL LANE CLOSURE AT INTERSECTION

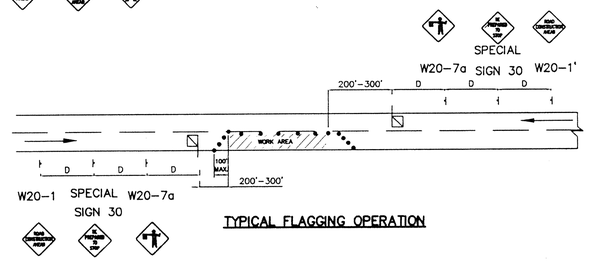
NOTE: DEPENDING ON WORK ZONE LOCATION



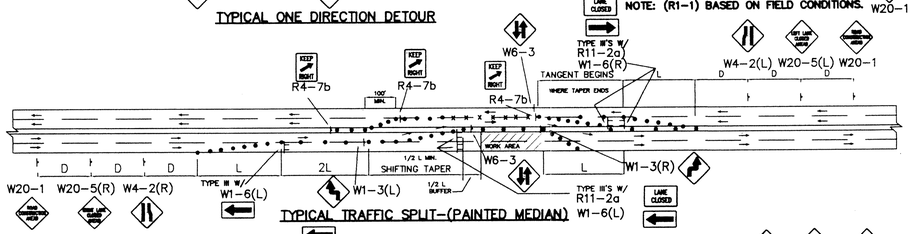
TYPICAL DOUBLE RIGHT LANE CLOSURE



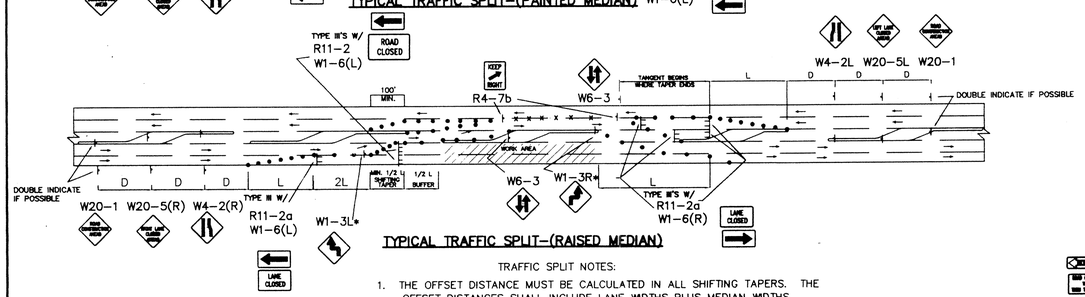
TYPICAL DOUBLE LEFT LANE CLOSURE



TYPICAL FLAGGING OPERATION



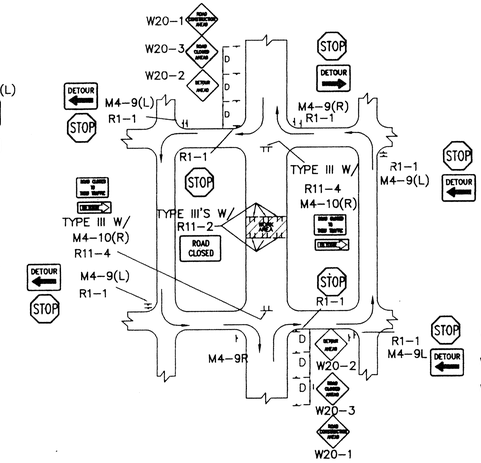
TYPICAL TRAFFIC SPLIT-(PAINTED MEDIAN)



TYPICAL TRAFFIC SPLIT-(RAISED MEDIAN)

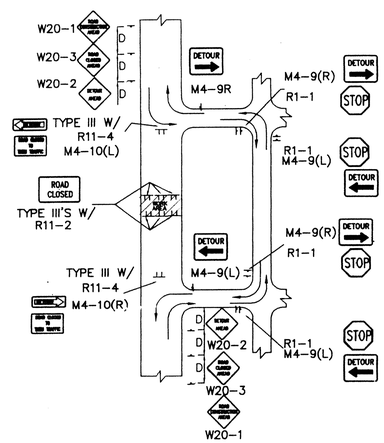
TRAFFIC SPLIT NOTES:

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



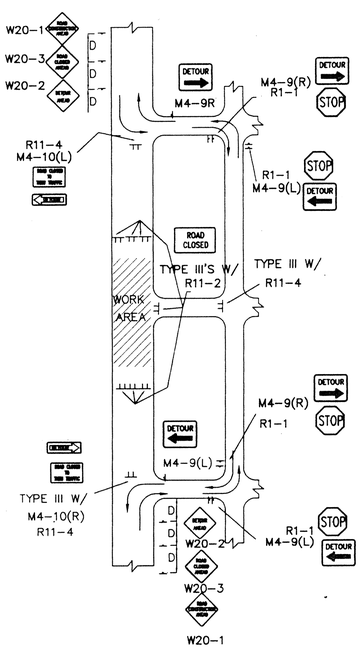
TYPICAL MID-BLOCK CLOSURE

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



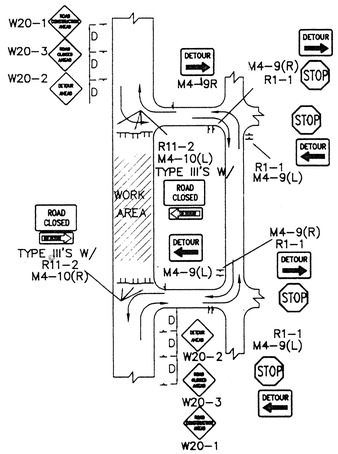
TYPICAL STREET CLOSURE

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



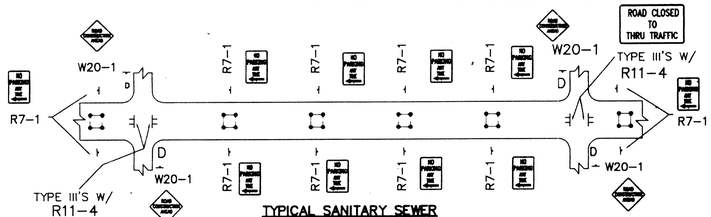
TYPICAL STREET CLOSURE

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



TYPICAL STREET CLOSURE

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



TYPICAL SANITARY SEWER SLIPLINING OPERATION

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

GENERAL NOTE:

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

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

AS BUILT INFORMATION
CONTRACTOR Franklin's DATE
WORK STAKED BY RLS DATE 1/6/
INSPECTOR'S ACCEPTANCE BY MGM DATE 1/6/
FIELD VERIFICATION BY RLS DATE 1/6/
DRAWINGS CORRECTED BY MGM DATE 1/6/
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

MILFORD B. ROYBAL NEW MEXICO PROFESSIONAL ENGINEER 5983 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
1	9/24/97	REVISED GENERAL NOTE	J.D.L.

REVISIONS

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

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

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

DESIGN REVIEW COMMITEE	CITY ENGINEER APPROVAL	LAST UPDATE	MO./DAY/YR.	MO./DAY/YR.
COA Standard				

PROJECT NO.	MAP NO.	SHEET	OF
645281	L-8/9	20	20

SCANNED BY MESA RE

CTCSTN02.DWG