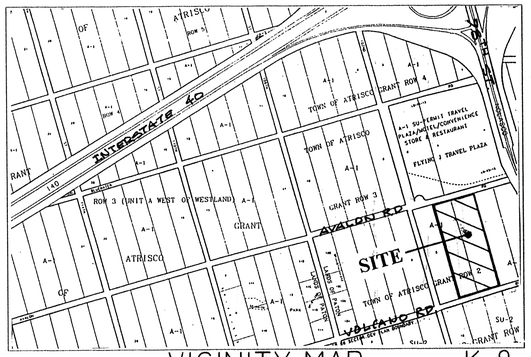
PUBLIC AND PRIVATE IMPROVEMENT PLANS
FOR
TRACTS 3A, 3B, 3C, 3D&3E ROW 2, UNIT A
WEST OF WESTLAND, TOWN OF ATRISCO GRANT



VICINITY MAP K-8
Scale 1"=750' (APPROX)

JULY 1998

PREPARED FOR:

RIVER BEND DEVELOPMENT,LLC
7049 LUELLA ANNE NE.
ALBUQUERQUE, NEW MEXICO 87109

PREPARED BY:

PROTEC CONSULTING
P.O. BOX 27007
ALBUQUERQUE, NEW MEXICO 87125

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
DATE 10/26/99
COA INSPECTOR: ALAN OSTAPACK

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5	LEONIDAS LANE & AVALON ROAD PAVING PLAN & PROFILE
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9	RETENTION POND & DETAILS
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RECORD DRAWING

SURVEYOR'S CERTIFICATION

I, Charles G. Cala, Jr., 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 and that I am not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.

Charles G. Cala, Jr., NMPS 11184 — CHARLES G. CALA JR. NEW MEXICO 11184 REGISTERED PROFESSIONAL SURVEYOR — 7-30-1999 Date

GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986 EDITION AS AMENDED THROUGH UPDATE NO. 6.
2. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
3. PRIOR TO CONSRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM DELAY.
4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, INC. @ 260-1990 FOR LOCATION OF EXISTING UTILITIES.
5. CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A MANNER WHICH WILL MINIMIZE INTERFERENCE WITH LOCAL TRAFFIC. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS, AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY, AND TO PROTECT THEM FROM DAMAGE, INJURY, OR LOSS. CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY THE CONDITIONS AND PROGRESS OF THE WORK, ALL NECESSARY SAFEGUARDS FOR SAFETY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS, THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR SHALL ADHERE TO SECTION 19 OF THE GENERAL CONDITIONS OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986, AS AMANDED WITH UPDATE NO. 6.
6. THE CONTRACTOR AGREES THAT HE SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER & ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
7. TRAFFIC CONTROL: 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 THE BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR TO THE SAME LOCATION AS EXISTING OR AS SHOWN IN THIS PLAN SET AT NO ADDITIONAL COST TO THE OWNER.
8. WHEN ABUTTING EXISTING PAVEMENT TO NEW, SAWCUT EXISTING PAVEMENT TO A STRAIGHT EDGE AND AT A RIGHT ANGLE, OR AS APPROVED BY THE FIELD ENGINEER. REMOVAL OF BROKEN OR CRACKED PAVEMENT WILL ALSO BE REQUIRED.
9. EXISTING CURB AND GUTTER, S/W, PAVEMENT, W.C.RAMPS, ETC. NOT TO BE REMOVED UNDER THE CONTRACT WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT HIS EXPENCE, AND PER CITY STANDARDS.
10. ALL FINAL BACKFILL FOR TRENCHES SHALL BE COMPACTED TO A MINIMUM 90% MAXIMUM DENSITY PER ASTM D-1557 AND AS DIRECTED BY SECTION 701.14.2 AND STANDARD DRAWING NUMBER 2315.
11. ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC. WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RE-SET BY THE CONTRACTOR.
12. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT OF WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET OR INTO ANY PUBLIC DRAINAGE FACILITY.
13. PROPOSED WATERLINE MATERIALS SHALL BE EITHER PVC PIPE MEETING AWWA C900 REQUIREMENTS (6"-12") OR DUCTILE IRON PIPE, THICKNESS CLASS 50 (6"-16").
14. ALL SANITARY SEWER LINE STATIONING REFERS TO SANITARY SEWER CENTERLINE STATIONING.
15. ALL FITTINGS ON WATERLINES SHALL HAVE RESTRAINED JOINTS AS NOTED ON THE PLANS.
16. CONTRACTOR SHALL SUPPORT ALL EXISTING, UNDERGROUND UTILITY LINES WHICH BECOME EXPOSED DURING CONSTRUCTION, PAYMENT FOR SUPPORTING WORK SHALL BE INCIDENTAL TO WATERLINE AND/OR SEWERLINE COSTS.
17. CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF RECORD DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
18. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND MAINTAINING ALL EXISTING MONUMENTATION CONTROLS. IN THE EVENT OF INADVERTENT DESTRUCTION OR ALTERATION, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE CITY CHIEF SURVEYOR.
19. PNM WILL PROVIDE AT NO COST TO THE CITY OR THE CONTRACTOR THE REQUIRED PERSONNEL FOR INSPECTION OR OBSERVATION DEEMED NECESSARY BY PNM WHILE THE CONTRACTOR IS EXPOSING PNM'S CABLES. HOWEVER, THE CONTRACTOR SHALL BE CHARGED THE TOAL COST ASSOCIATED WITH REPAIRS TO ANY DAMAGED CABLES OR FOR ANY COST ASSOCIATED WITH SUPPORTING OR RELOCATING THE POLES AND CABLES DURING CONSTRUCTION.
20. WARNING: EXISTING UTILITY LINE LOCATIONS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION OF ANY SUCH EXISTING LINES IS BASED UPON INFORMATION PROVINED BY THE UTILITY COMPANY, THE OWNER, OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.
21. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THEPETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES, IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "NEW MEXICO ONE CALL SYSTEM" PROCEDURES, OR OTHERWISE.
22. 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.
23. ANY WORK OCCURRING WITHIN AN ARTERIAL ROADWAY REQUIRES 24 HOURS CONSTRUCTION.

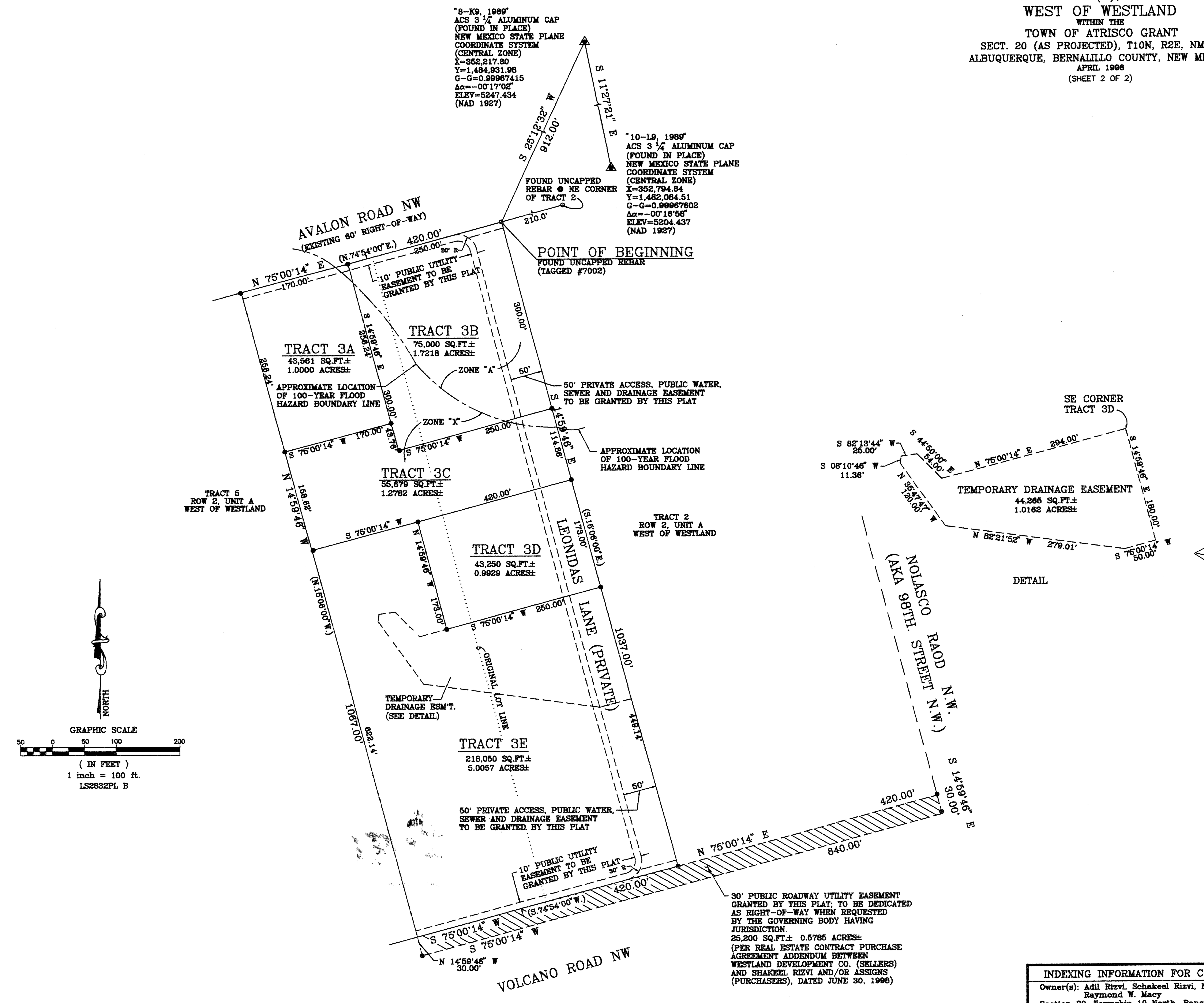
REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
1	1,3,7,8,9		7/1999				

ENGINEERS STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE	* * * * * * * * * *
RAYMOND R. KONRAD NEW MEXICO 8414 REGISTERED PROFESSIONAL ENGINEER 8/10/98	DRC Chairman	Anthony J. Tootalay	9/10/98	APPROVED FOR CONSTRUCTION
	Transportation		8-12-98	
	Water/Wastewater	R.W. Konrad	8-12-98	
	Hydrology	Tom Montoya	8/12/98	2/22/99
	CIP			City Engineer — Date
	Constr. Mngmt.			
	Constr. Coord.		8-13-98	
	City Project No. 593481			Sheet 1 Of 11

DRB CASE NO. 98-1

PLAT
OF
TRACTS 3A, 3B, 3C, 3D & 3E
ROW TWO (2), UNIT A
WEST OF WESTLAND
WITHIN THE
TOWN OF ATRISCO GRANT
SECT. 20 (AS PROJECTED), T10N, R2E, NMPM
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
APRIL 1998
(SHEET 2 OF 2)

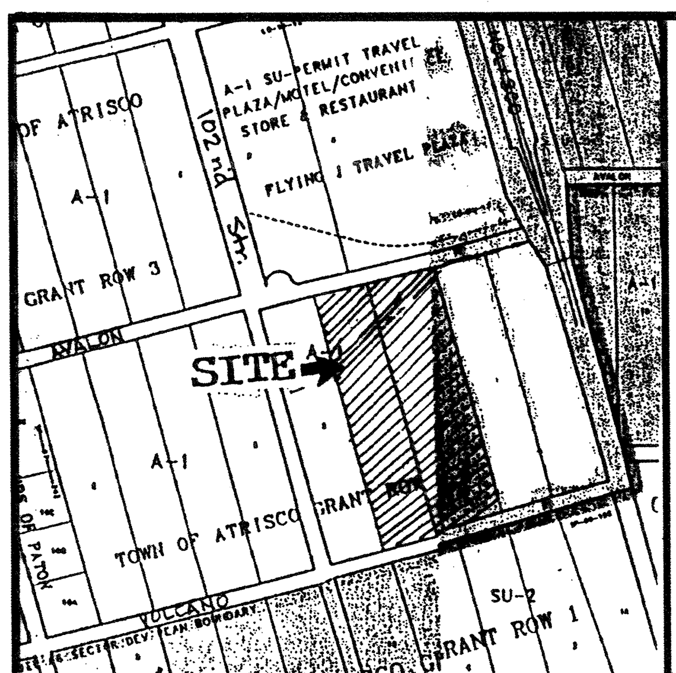
RECORD DRAWING



INDEXING INFORMATION FOR COUNTY CLERK

Owner(s): Adil Rizvi, Schakeel Rizvi, Narjis Rizvi & Raymond W. Macy
Section 20, Township 10 North, Range 2 East, NMPM
WEST OF WESTLAND

PLAT
OF
TRACTS 3A, 3B, 3C, 3D & 3E
ROW TWO (2), UNIT A
WEST OF WESTLAND
WITHIN THE
TOWN OF ATRISCO GRANT
SECT. 20 (AS PROJECTED), T10N, R2E, NMPM
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
APRIL 1998
(SHEET 1 OF 2)



VICINITY MAP — NOT TO SCALE — ZONE ATLAS K-8-Z

TALOS LOG No.: 97121008560131

DRB No.: 98-1

DISCLOSURE STATEMENT:

THE PURPOSE OF THIS PLAT IS TO DIVIDE EXISTING TRACTS 3 & 4 INTO FIVE (5) TRACT, TO GRANT A 50' PRIVATE ACCESS, PUBLIC WATER, SEWER AND DRAINAGE EASEMENT, TO GRANT A 10' PUBLIC UTILITY EASEMENT AND TO GRANT A 30' PUBLIC ROADWAY AND UTILITY EASEMENT AS SHOWN HEREON.

NOTES:

1. Bearings are New Mexico State Plane (Grid) (Central Zone) based on ACS Monuments "8-K9, 1989" and "10-19, 1989" (NAD 1927).
2. Distances are ground.
3. Bearings and distances within parenthesis are based upon Legal Description provided by Rio Grande Title Insurance Policy #07-971467-z.
4. Plat shows all easements of record.
5. All corners found tagged "#7002" and all corners set capped "7002".
6. Prior to development, City of Albuquerque Water and Sanitary Sewer services to these properties must be verified and coordinated with the City of Albuquerque.
7. Total acreage = 9.9986 acres (435,540 square feet).
8. The 50' Private Access Easement at the east edge of Tracts 3B, 3C and 3D shall benefit Tracts 3A, 3B, 3C, 3D and 3E. The 50' Private Access Easement at the east edge of Tract 3E shall be for the sole benefit of Tract 3E. Maintenance of the Private Access Easement shall be shared by the Benefitting Tracts.
9. A Bulk Variance for Tract 3E has been granted by the City in connection with this plat. Future subdivision of lands within this plat, Zoning Site Development Plan Approvals, and Development Permits may be conditioned upon dedication of rights-of-way and easements, and/or sewer, streets, drainage, grading and parks in accordance with current resolutions, ordinances and policies in effect at the time for any specific proposal. The City (and AMAFCA with reference to drainage) may require and/or permit easements to be added, modified or removed when future plats or Site Development Plans are approved. By its approval the City makes no representation or warranties as to availability of utilities, or final approval of all requirements including (but not limited to) the following items: Water and Sanitary Sewer availability; future street dedications and/or improvements; park and open space requirements; drainage requirements and/or improvements; and excavation, filling or grading requirements. Any person intending development of lands within this subdivision is cautioned to investigate the status of these items. IT IS UNDERSTOOD THAT A SEPARATE NOTICE OF THESE CONDITIONS IS TO BE RECORDED WITH THE COUNTY CLERK AT THE TIME OF FINAL PLAT RECORDING.
10. A poriton of subject property is located withn a 100-year Floodplain at the NE corner of Tract 3B according to the Flood Insurance Rate Map, City of Albuquerque, New Mexico per map No. 35001C0328 D, effective date September 20, 1996.

LEGAL DESCRIPTION:

A certain tract of land situate within Section 20, (as projected) T10N, R2E, NMPM, Town of Alameda Grant, Bernalillo County, New Mexico, being more particularly described as follows: BEGINNING FOR A TIE, at a ACS Aluminum cap stamped "8-K9, 1989", having New Mexico State Plane Coordinates (Central Zone) of X=352,217.80 and Y=1,484,931.98; whence, S 11°27'21" E to a ACS Aluminum cap stamped "10-L9, 1989"; thence, S 25°12'32" W, 912.00 feet distance to the Northeast corner of the tract herein described, THE POINT AND PLACE OF BEGINNING, said corner also being a point along the Southerly right-of-way line of Avalon Road NW, common corner to adjoining Tract 2, Row 2, Unit A, WEST OF WESTLAND; thence from said beginning point, S 14°59'46" E, 1037.00 feet to a point; thence, N 75°00'14" E, 420.00 feet to a point; thence, S 14°59'46" E, 30.00 feet to the Southeast corner of the tract herein described; thence, S 75°00'14" W, 840.00 feet to the Southwest corner of the tract herein described; thence N14°59'46" W, 1067.00 feet to the Northwest corner of the tract herein described, said corner being a point on the southerly right-of-way line of Avalon Road NW; thence, N 75°00'14" E, 420.00 feet along the southery right-of-way line of said Avalon Raod NW to the Northeast corner and Point of Beginning containing 10.5771 acres (460,740 square feet), more or less.

CONSENT:

Replatted as shown hereon and now comprising Tracts 3A, 3B, 3C, 3D & 3E, WEST OF WESTLAND, Section 20, Township 10 North, Range 2 East, New Mexico Principal Meridian, Albuquerque Bernalillo County, New Mexico, is the free consent of and in accordance with the wishes and desires of the undersigned owner(s) and proprietor(s) thereof, grant a 50' Private Access, Public Water, Sewer & Drainage Easement, grant a 10' Public Utility Easement and grant a 30' Public Roadway and Utility Easement, all with warranty covenants.

OWNERS OF TRACTS 3A & 3E

[signature] 9/1/98
Shakeel Rizvi — Date

Narjis F. Rizvi 9/1/98
Narjis Rizvi, his wife — Date

[signature] 9/1/98
Adil Rizvi — Date

Raymond W. Macy 9/6/98
Raymond W. Macy — Date

NOTARY:

STATE OF NEW MEXICO) SS
COUNTY OF BERNALILLO)

On this 6th day of Sept, 1998, this instrument was acknowledged before me by Shakeel Rizvi and Narjis Rizvi, Adil Rizvi and Raymond W. Macy

Esperanza M. Bourgeois 5-16-2000
Notary Public — My commision expires:

OFFICIAL SEAL
Esperanza M. Bourgeois
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires: 5-16-2000

OWNER OF TRACTS 3B, 3C & 3D

Thomas L. Nickolson 9-8-98
Thomas L. Nickolson — Date

NOTARY:

STATE OF NEW MEXICO) SS
COUNTY OF BERNALILLO)

On this 8th day of September, 1998, this instrument was acknowledged before me by Thomas L. Nickolson

[signature] 9/11/02
Notary Public — My commision expires: 6-7-2002

OFFICIAL SEAL
DAVID P. MELTON
NOTARY PUBLIC-STATE OF NEW MEXICO
My commission expires: 6-7-2002

NOTARY:

STATE OF NEW MEXICO) SS
COUNTY OF BERNALILLO)

On this 6th day of Sept, 1998, this instrument was acknowledged before me by Raymond W. Macy.

Esperanza M. Bourgeois 5-16-2000
Notary Public — My commision expires:

OFFICIAL SEAL
Esperanza M. Bourgeois
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires: 5-16-2000

APPROVALS:

PLAT No.________________

TRAFFIC DIV., City of Albuquerque	DATE
DESIGN AND DEVELOPMENT, City of Albuquerque	DATE
[signature] CITY SURVEYOR, City of Albuquerque	010828 DATE
WATER UTILITIES DEPT., City of Albuquerque	DATE
PROPERTY MANAGEMENT, City of Albuquerque	DATE
A.M.A.F.C.A.	DATE
CITY ENGINEERING DIV., City of Albuquerque	DATE
PLANNING DIRECTOR, City of Albuquerque	DATE
FIRE MARSHALL	DATE
PUBLIC WORK DEPT, City of Albuquerque	DATE
PNM ELECTRIC SERVICES	DATE
PNM GAS SERVICES	DATE
JONES INTERCABLE INC.	DATE
U.S. WEST COMMUNICATIONS	DATE
BERNALILLO COUNTY TREASURER	DATE

THIS IS TO CERTIFY THAT TAXES ARE CURRENT AND PAID ON UPC#:________________
PROPERTY OWNER ON RECORD:________________

BERNALILLO COUNTY TREASURER'S OFFICE:________________

SURVEYOR'S CERTIFICATION:

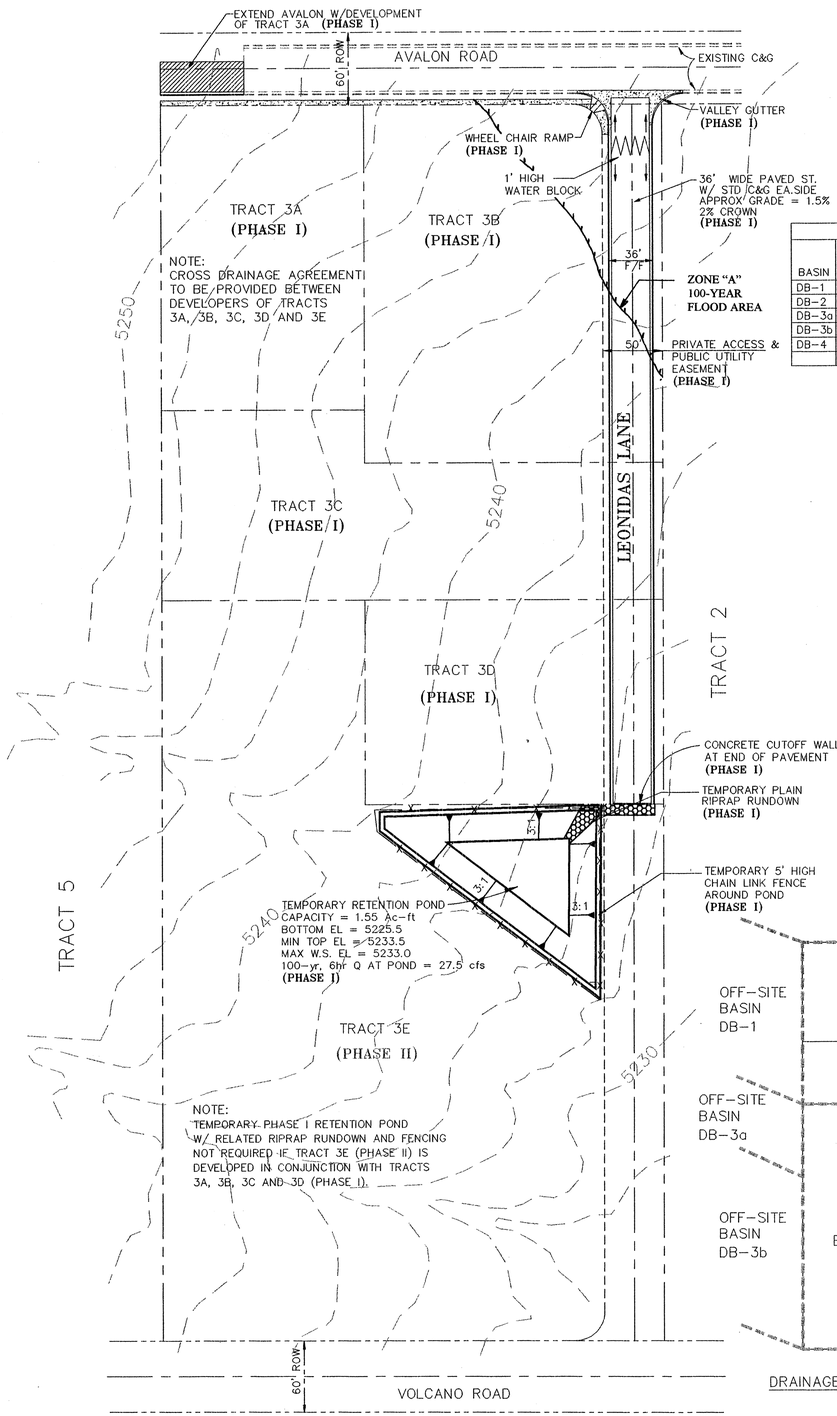
I, Douglas H. Smith, New Mexico Professional Surveyor No. 7002, hereby certify that this plat was prepared from field notes of an actual ground survey preformed by me or under my direct supervision; that it meets the Standards for Land Surveys in New Mexico as adopted by the New Mexico State Board of Registration for Professional Engineers and Land Surveyors; that it meets the minimum requirements for surveys and monumentation of the Albuquerque Subdivision Ordinance; and that the same is true and correct to the best of my belief and knowledge.

Douglas H. Smith, N.M.P.S. No. 7002

REGISTERED PROFESSIONAL SURVEYOR — NEW MEXICO — 7002 — DOUGLAS H. SMITH

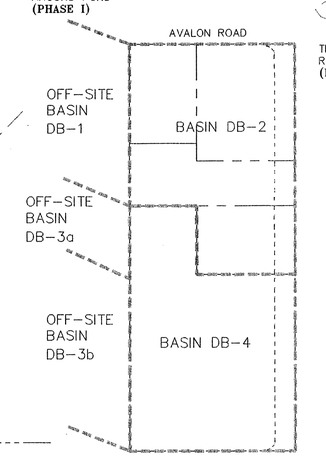
INDEXING INFORMATION FOR COUNTY CLERK

Owner(s): Adil Rizvi, Schakeel Rizvi, Narjis Rizvi & Raymond W. Macy
Section 20, Township 10 North, Range 2 East, NMPM
WEST OF WESTLAND

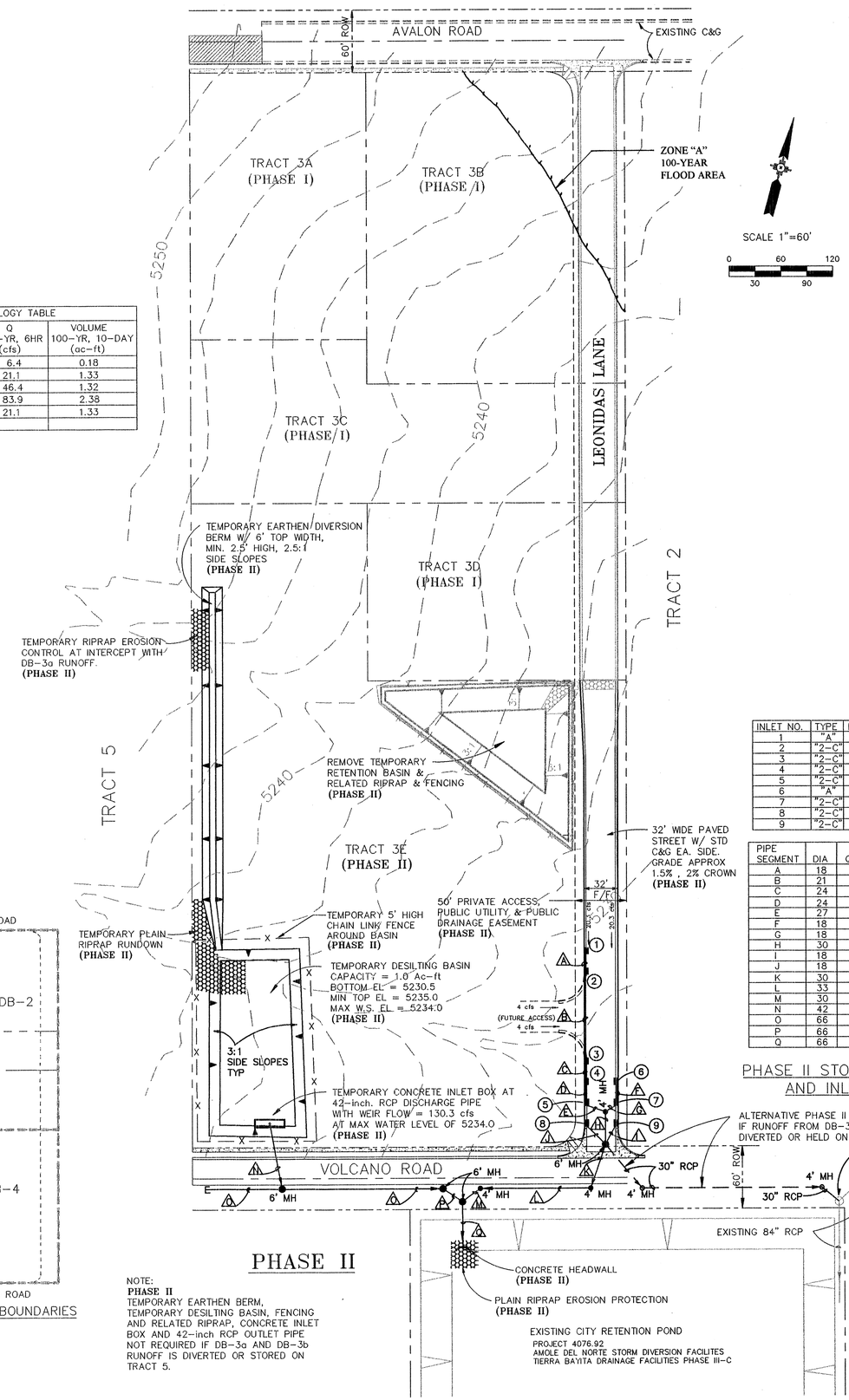


PHASE I

HYDROLOGY TABLE			
BASIN	AREA (AC.)	Q 100-YR, 6HR (cfs)	VOLUME 100-YR, 10-DAY (ac-ft)
DB-1	4.94	6.4	0.18
DB-2	5.00	21.1	1.33
DB-3a	36	46.4	1.32
DB-3b	65	83.9	2.38
DB-4	5.00	21.1	1.33



DRAINAGE BASIN BOUNDARIES



PHASE II

NOTE:
PHASE II
TEMPORARY EARTHEN BERM, TEMPORARY DESILTING BASIN, FENCING AND RELATED RIPRAP, CONCRETE INLET BOX AND 42-inch RCP OUTLET PIPE NOT REQUIRED IF DB-3a AND DB-3b RUNOFF IS DIVERTED OR STORED ON TRACT 5.

SCALE 1"=60'

0 60 120
30 90

INLET NO.	TYPE	DEPTH ON GRATE	FLOW IN
1	"A"	0.53	7.3 cfs
2	"2-C"	0.49	7.6 cfs
3	"2-C"	0.49	7.6 cfs
4	"2-C"	0.46	6.5 cfs
5	"2-C"	0.38	4.4 cfs
6	"A"	0.46	5.5 cfs
7	"2-C"	0.38	4.4cfs
8	"2-C"	0.28	2.5cfs
9	"2-C"	0.28	2.5 cfs

TOTAL 48.3 cfs

PIPE SEGMENT	DIA	Q (cfs)
A	18	7.3
B	21	14.9
C	24	22.5
D	24	29.0
E	27	33.4
F	18	5.5
G	18	9.9
H	30	43.3
I	18	2.5
J	18	2.5
K	30	48.3
L	33	48.3
M	30	48.3
N	42	130.3
O	66	350
P	66	350
Q	66	350

PHASE II STORM DRAINS AND INLETS

VICINITY MAP ZONE ATLAS K-8

RECORD DRAWING

LEGEND

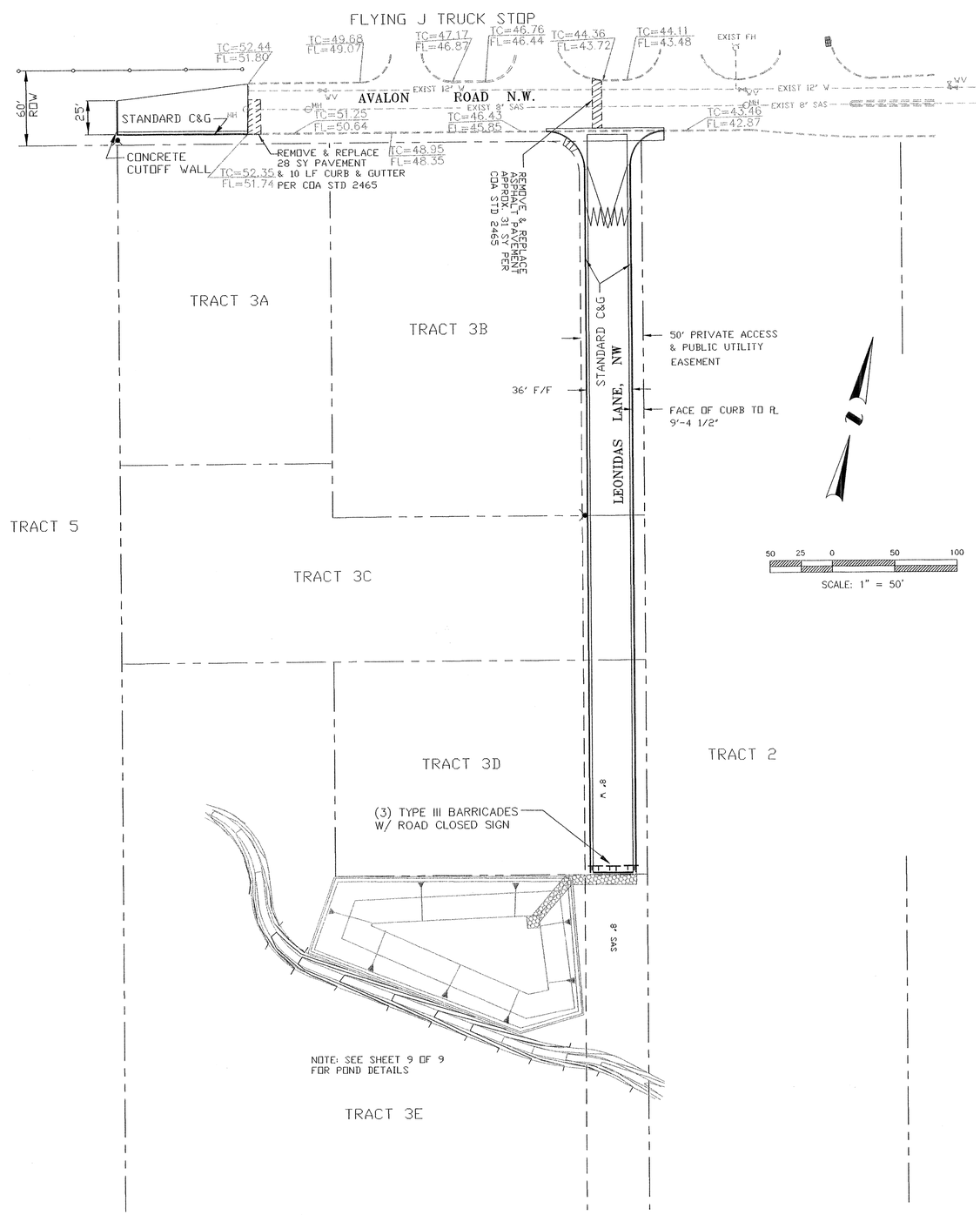
- RIPRAP
- DRAINAGE BASIN BOUNDRY
- CONTOUR LINE
- STREET ℄
- PROPERTY BOUNDRY
- STORM DRAIN SEGMENT I.D.
- STORM INLET NUMBER I.D.

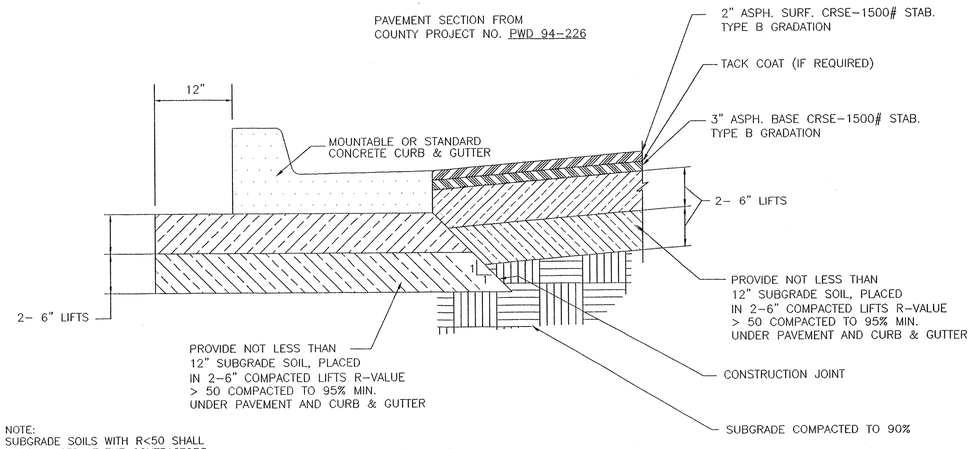
RAYMOND W. MACY NEW MEXICO 6414 4/20/98 REGISTERED PROFESSIONAL ENGINEER

MASTER DRAINAGE PLAN
PHASES I & II

TRACTS 3A, 3B, 3C, 3D AND 3E
ROW TWO (2), UNIT A
WEST OF WESTLAND
TOWN OF ATRISCO GRANT

(Figure 3)

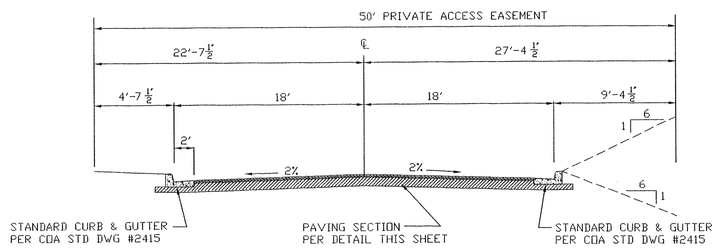




NOTE:
SUBGRADE SOILS WITH R<50 SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.

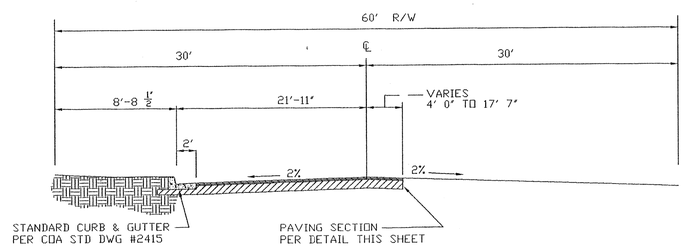
AVALON & LEONIDAS TYPICAL PAVING SECTION

N.T.S.



TYPICAL 50' EASEMENT COMMERCIAL STREET SECTION-LEONIDAS LANE NW

N.T.S.



TYPICAL 60' R.O.W. MAJOR LOCAL STREET SECTION-AVALON ROAD NW

N.T.S.

LEGEND

- EXISTING CURB & GUTTER OR SIDEWALK
- PROPOSED CURB & GUTTER CITY STD DWG 2415
- WHEEL CHAIR RAMP CITY STD DWG 2441 CASE II
- VALLEY GUTTER (V.G.) CITY STD DWG 2420
- WATER BLOCK

RECORD DRAWING

AS BUILT INFORMATION
CONTRACTOR Universal
WORK STAKED BY Jeff Mulvey DATE 7/99
INSPECTOR'S ACCEPTANCE BY A. Ostapack DATE 7/99
FIELD VERIFICATION BY A. Ostapack DATE 7/99
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
'8-K9, 1989
ACS 3-1/4" ALUMINUM CAP
ELEV. 5247.434

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
1	07/1999	RECORDED DRAWING	JMA

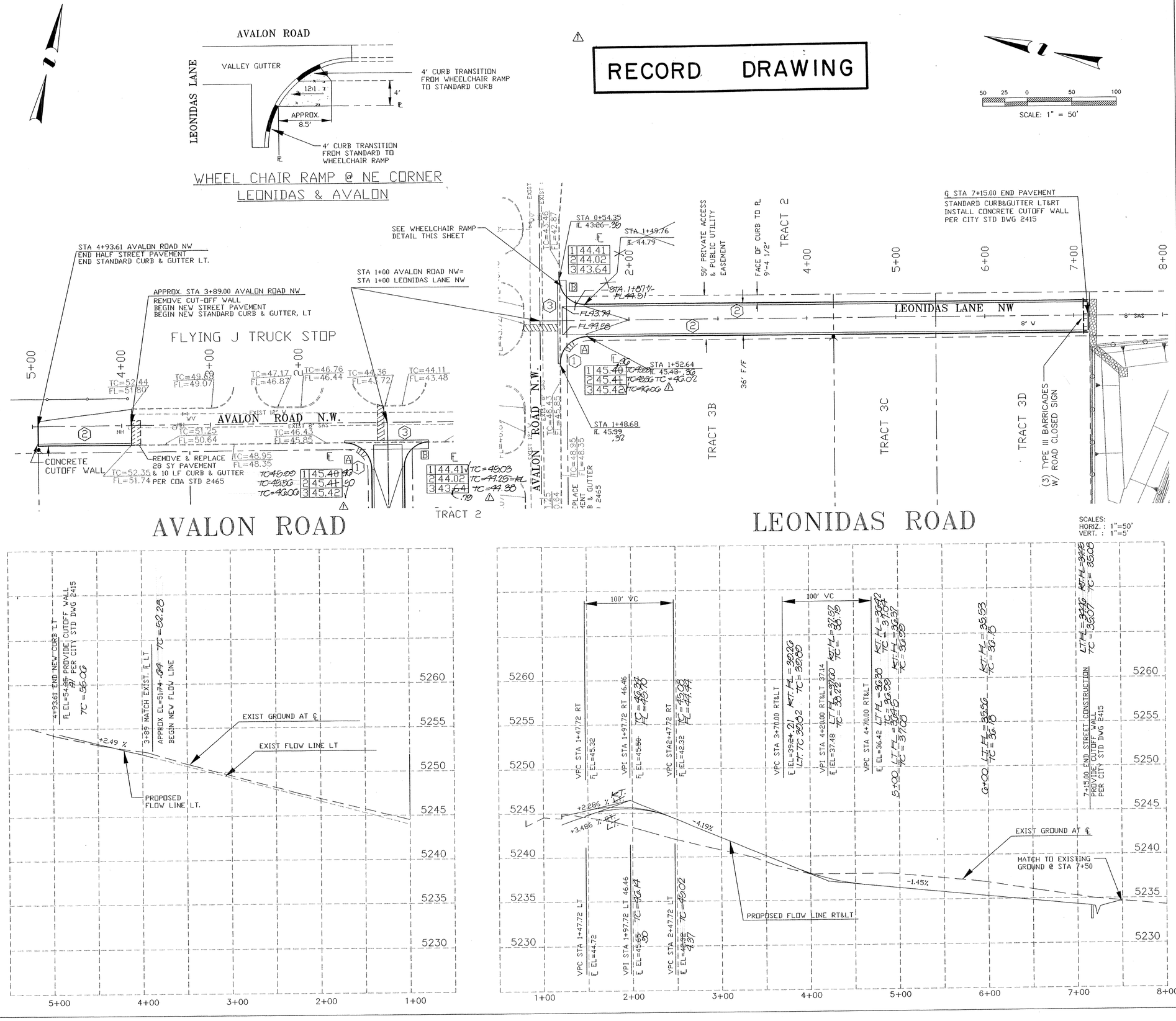
REVISIONS
DESIGN
DESIGNED BY RM DATE 7/1998
DRAWN BY RJH DATE 7/1998
CHECKED BY RM DATE 1/1998

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: TRACTS 3A,3B,3C,3D&3E ROW 2 UNIT A
WEST OF WESTLAND TOWN OF ATRISCO GRANT
MASTER PAVING PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED SEP 10 1998 DESIGN REVIEW COMMITTEE				

City Project No. 593481 | Zone Map No. K-8 | Sheet 4 of 11



GENERAL NOTES:

1. ALL C&G PROFILE STATIONING AND GRADES ARE TAKEN ALONG STREET CENTERLINE

KEYED NOTES:

1. CONSTRUCT WHEELCHAIR RAMP AT SW CORNER OF AVALON &LEONIDAS PER COA STD DWG # 2441, CASE I
2. CONSTRUCT STANDARD CURB & GUTTER AS INDICATED PER COA STD DWG #2415
3. CONSTRUCT PCC VALLEY GUTTER 6' WIDE, 3/4" INVERT PER COA STD. DWG #2420.

FACE OF CURB CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH
A	90°00'00"	30.00'	47.12'
B	90°00'00"	27.00'	42.41'

SURVEYOR'S CERTIFICATION

I, Charles G. Cala, Jr., 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 and that I am not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.

Charles G. Cala, Jr., NMPLS No. 11184 — Date

CHARLES G. CALA, JR. NEW MEXICO 11184 REGISTERED PROFESSIONAL SURVEYOR

LEGEND

- EXISTING CURB & GUTTER OR SIDEWALK
- PROPOSED CURB & GUTTER CITY STD DWG 2415
- WHEEL CHAIR RAMP CITY STD DWG 2441 CASE II
- VALLEY GUTTER (V.G.) CITY STD DWG 2420

NOTE:
S/W CONSTRUCTION IS NOT PART OF THIS CONTRACT. S/W TO BE PROVIDED WITH DEVELOPMENT OF INDIVIDUAL TRACTS.

AS BUILT INFORMATION
CONTRACTOR: Universal
WORK STAKED BY: Jeff Martinez DATE 7/99
AS-BUILTED BY: A. Litzack DATE 7/99
ACCEPTANCE BY: A. Litzack DATE 7/99
FIELD VERIFICATION BY: DATE
DRAWINGS CORRECTED BY: DATE
MICRO-FILM INFORMATION
RECORDED BY: DATE
NO.

BENCH MARKS
*8-K9, 1989
ACS 3-1/4" ALUMINUM CAP
ELEV. 5247.434

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
△1	07/1999	AS BUILT & CERTIFY	M.A.

REVISIONS

DESIGN		
DESIGNED BY	RM	DATE 7/1998
DRAWN BY	RJH	DATE 7/1998
CHECKED BY	RM	DATE 1/1998

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: TRACTS 3A,3B,3C,3D&3E ROW 2 UNIT A
WEST OF WESTLAND TOWN OF ATRISCO GRANT

LEONIDAS LANE & AVALON PAVING PLAN & PROFILE

Design Review Committee — APPROVED — DESIGN REVIEW COMMITTEE
City Engineer Approval
Last Design Update — Mo./Day/Yr. — Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet	of
593481	K-8	5	11

Restrained Joint Lengths,L,* for Horizontal Bends and Valves. (ft.)					
SIZE	HORIZ. BENDS				VALVES
	90°	45°	22.5°	11.25°	
12	30	12	6	3	85
10	26	11	5	3	72
8	22	9	4	2	60
6	17	7	3	2	46
4	12	5	2	1	32

Restrained Joint Lengths,L,* for Reducers, (ft.) Minimum, unobstructed, straight-run length: Restrain either large pipe, or small pipe.					
SIZE	LARGE SIDE	SMALL SIDE	SIZE	LARGE SIDE	SMALL SIDE
12x10	25	30	10x6	44	73
12x8	45	68	10x4	58	141
12x6	62	121	8x6	25	33
12x4	74	213	8x4	43	83
10x8	24	30	6x4	24	35

Restrained Joint Lengths,L,* for TEES, (ft.) All Joints at the Tee must be restrained.				
SIZE	MINIMUM RUN LENGTH		MINIMUM BRANCH LENGTH	
	Run	Branch	Run	Branch
12x12x12	15	17	18	3
12x12x10	10	18	13	1
12x12x8	6	19	8	5
12x12x6	3	19	5	1
12x12x4	1	19	2	6
10x10x10	12	18	15	5
10x10x8	8	15	10	4
10x10x6	4	16	6	1
10x10x4	2	4	3	1
8x8x8	9	20	13	3
8x8x6	5	17	7	5
8x8x4	2	15	3	7
6x6x6	6	20	10	2
6x6x4	2	20	4	7

Note. These tables are based upon the following criteria:

Depth of Bury	3.0 ft. minimum
Factor of Safety	1.25
Material	PVC Pipe
Soil Type:	GM/SM-Silty gravels and silty sands, gravel-sand-silt mixtures.
Test Pressure	150 psi
Trench Type 4:	Pipe bedded in sand, gravel, or crushed stone to depth of 1/6 pipe diameter, 4 inch minimum, backfill compacted to top of pipe.

Different criteria, e.g. ductile iron pipe, greater depth of bury, etc., will require different restrained lengths. These must be calculated by a qualified Professional Engineer and approved by the Public Works Department.

* RESTRAINED JOINT LENGTHS REFER TO EACH WAY FROM FITTING

RESTRAINED JOINT LENGTHS FOR WATERLINE FITTINGS

LEGEND

- SINGLE WATER METER & BOX
- GATE VALVE w/TYPE 'A' VALVE BOX
- FIRE HYDRANT
- MANHOLE & FLOW DIRECTION
- WATER LINE w/FITTING

RECORD DRAWING

SURVEYOR'S CERTIFICATION

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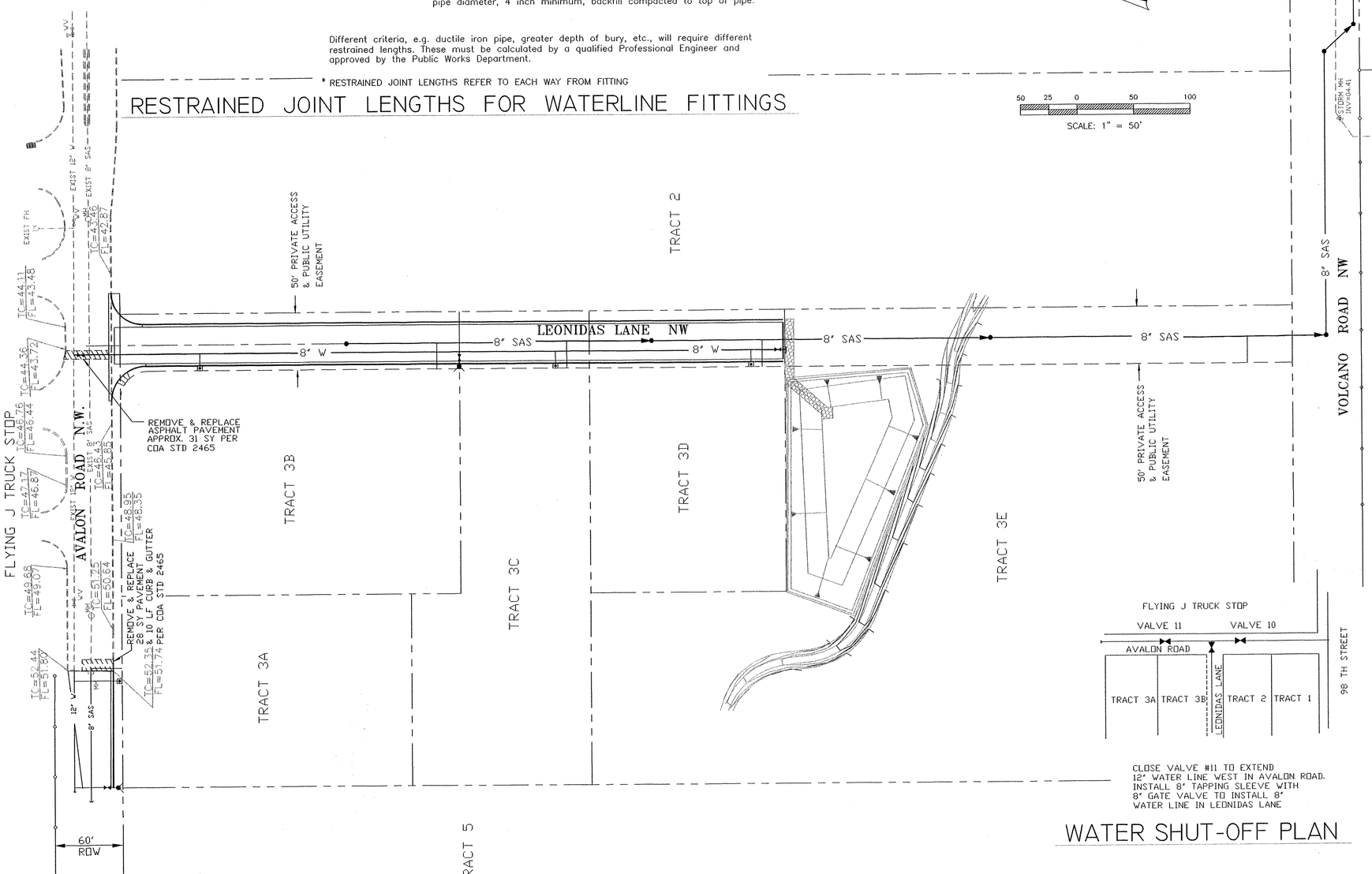
Charles G. Cala, Jr., NMPS 11184 — Date

CHARLES G. CALA, JR. NEW MEXICO 11184 REGISTERED PROFESSIONAL SURVEYOR



WATER SHUT-OFF PLAN

THE CONTRACTOR SHALL CONTACT WATER SYSTEMS DIVISION (857-8200) FIVE (5) WORKING DAYS PRIOR TO THE CLOSING OR OPENING OF WATER LINE VALVES. ONLY CITY WATER SYSTEMS PERSONNEL ARE AUTHORIZED TO OPERATE VALVES.

AS BUILT INFORMATION
CONTRACTOR: Universal DATE 7/99
WORK STAKED BY: Jeff Montoya DATE 7/99
INSPECTOR'S ACCEPTANCE BY: A. Olafack DATE 7/99
FIELD INFORMATION BY: A. Olafack DATE 7/99
DRAWINGS CORRECTED BY: DATE
MICRO-FILM INFORMATION
RECORDED BY: DATE
NO.

BENCH MARKS
'8-K9, 1989
ACS 3-1/4" ALUMINUM CAP
ELEV. 5247.434

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
DONALD W. MACKAY NEW MEXICO 6844 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
1	07/1999	AS-BUILT & CERTIFY.	TMA

REVISIONS

		DATE
DESIGNED BY	RM	DATE 7/1998
DRAWN BY	RJH	DATE 7/1998
CHECKED BY	RM	DATE 1/1998

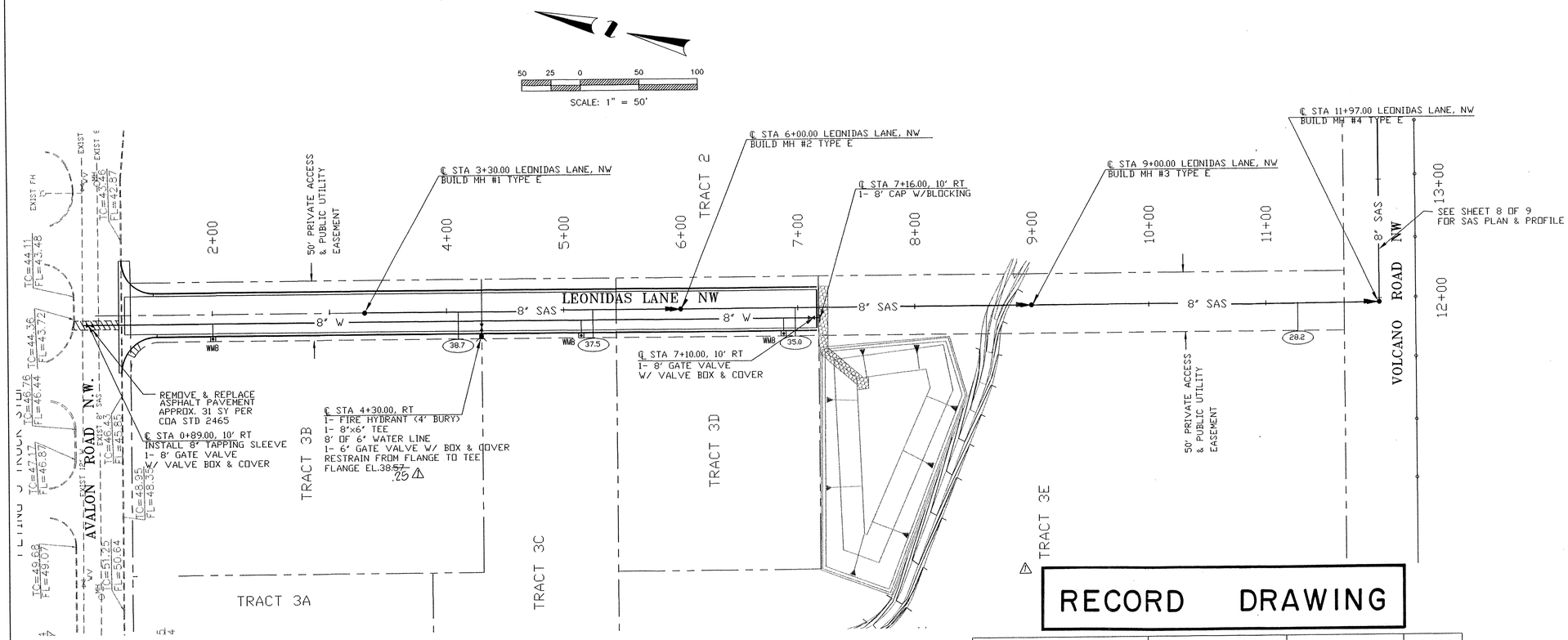
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: TRACTS 3A,3B,3C,3D&3E ROW 2 UNIT A
WEST OF WESTLAND TOWN OF ATRISCO GRANT

MASTER UTILITY PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
FEB 08 1999 DESIGN REVIEW COMMITTEE				

City Project No.	Zone Map No.	Sheet	of
593481	K-8	6	11



RECORD DRAWING

SEWER SERVICE		WATER SERVICE	STREET	TRACT
STATION	ELEV.	STATION		
4+10	38.7	2+00	LEONIDAS	3B
5+25	37.5	5+15	LEONIDAS	3C
6+98	35.0	6+88	LEONIDAS	3D
11+25	28.2	NONE	LEONIDAS	3E

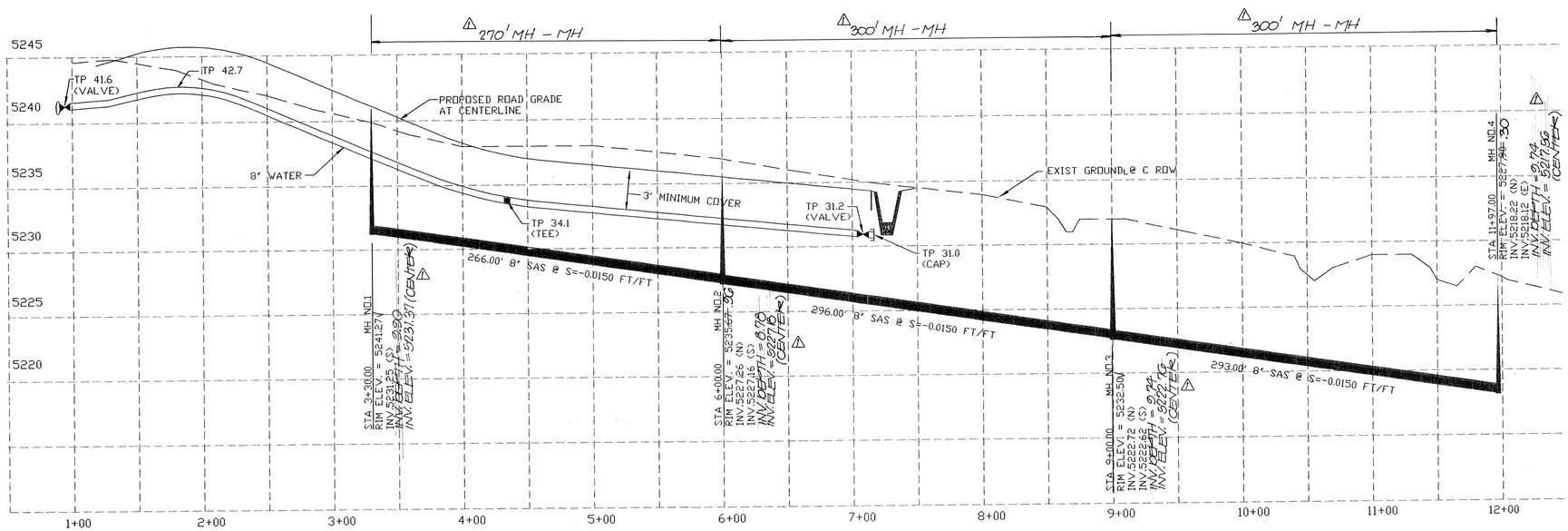
GENERAL NOTES:

1. CONSTRUCT SAS SERVICES PER COA STD. DWG #2125
2. CONSTRUCT FIRE HYDRANT AT DESIGNATED DEPTHS & LENGTHS PER COA STD. DWG #2340
3. CONSTRUCT ALL WATER SERVICES PER COA STD. DWG'S #2361, #2362, #2363
4. SEE THE MASTER UTILITY PLAN DWG FOR RESTRAINED JOINT LENGTHS FOR WATERLINE FITTINGS.
5. THE LENGTH AND SLOPE OF SAS SHOWN IN THE PROFILE IS BASED ON THE DISTANCE BETWEEN MANHOLE CENTERS LESS THE MANHOLE DIAMETER.
6. UNLESS SHOWN OTHERWISE, MH'S SHALL BE LOCATED ALONG STREET CENTER LINE
7. PROVIDE 2" WATER SERVICE FOR 3B PROVIDE 1-1/2" WATER SERVICES FOR TRACTS 3A, 3C AND 3D
8. PROVIDE 6" SAS SERVICE LINES FOR ALL TRACTS

LEGEND

- GATE VALVE w/TYPE 'A' VALVE BOX
- FIRE HYDRANT
- MANHOLE & FLOW DIRECTION
- WATER LINE w/FITTING
- WMB — WATER SERVICE W/ METER BOX
- (38.4) — SANTARY SEWER SERVICE & ELEVATION

LEONIDAS LANE



SURVEYOR'S CERTIFICATION

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Charles G. Cala, Jr. NMPLS 11184 — 7-30-99 Date

CHARLES G. CALA, JR. NEW MEXICO 11184 REGISTERED PROFESSIONAL SURVEYOR

AS BUILT INFORMATION: CONTRACTOR WORK STAKED BY / INSPECTOR ACCEPTANCE BY / FIELD VERIFICATION BY / DRAWINGS CORRECTED BY — DATE; MICRO-FILM INFORMATION — DATE; RECORDED BY — DATE; NO.

BENCH MARKS: *8-K9, 1989; ACS 3-1/4" ALUMINUM CAP; ELEV. 5247.434

SURVEY INFORMATION: FIELD NOTES — NO. / BY / DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
1	07/1999	AS-BUILT & CERTIFY.	MA

REVISIONS DESIGN

		DATE
DESIGNED BY	RM	7/1998
DRAWN BY	RJH	7/1998
CHECKED BY	RM	1/1998

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: TRACTS 3A,3B,3C,3D&3E ROW 2 UNIT A
WEST OF WESTLAND TOWN OF ATRISCO GRANT

LEONIDAS LANE UTILITY PLAN & PROFILE

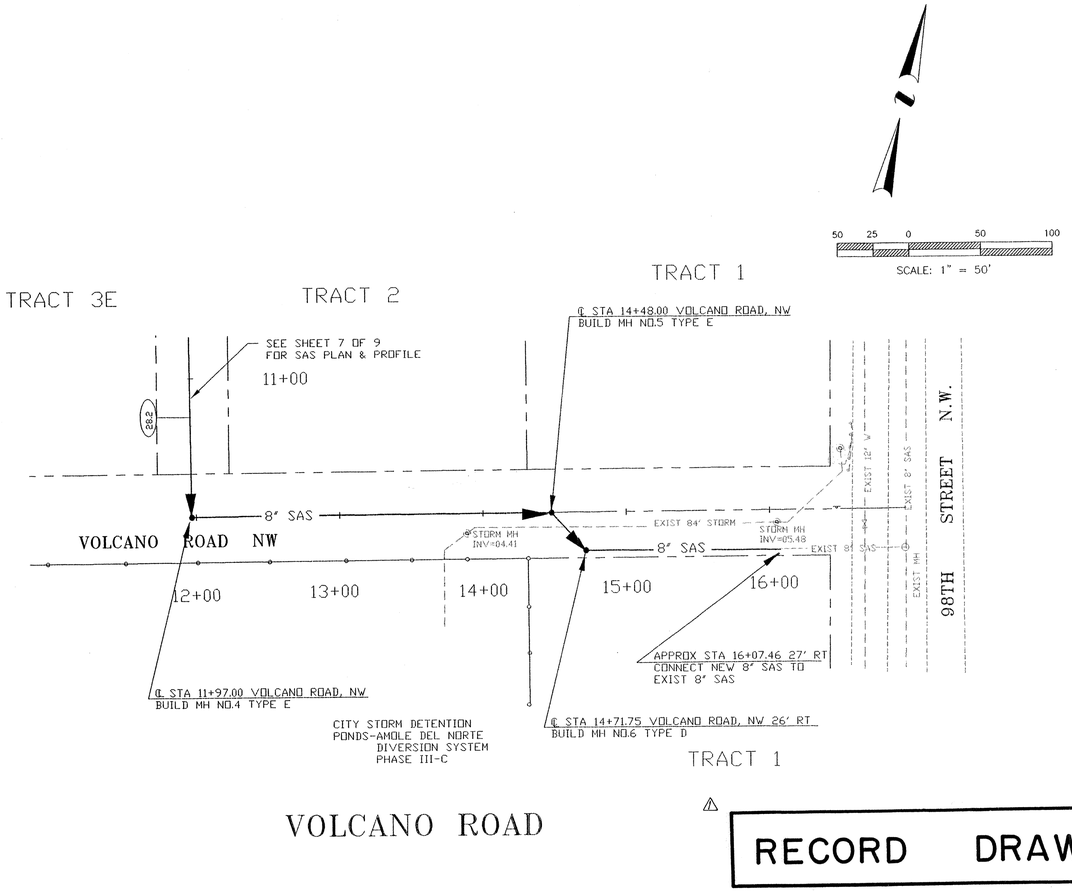
Design Review Committee: APPROVED — DESIGN REVIEW COMMITTEE

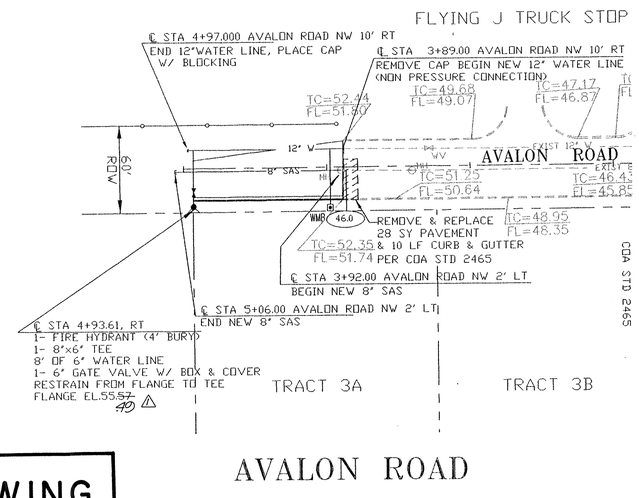
City Engineer Approval

Last Design Update: Mo./Day/Yr. — Mo./Day/Yr.

City Project No. 593481 | Zone Map No. K-8 | Sheet 7 of 11

SEWER SERVICE		WATER SERVICE	STREET	TRACT
STATION	ELEV.	STATION		
3+87	46.0	3+97	AVALON	3A
11+25	28.2	NONE	LEONIDAS	3E

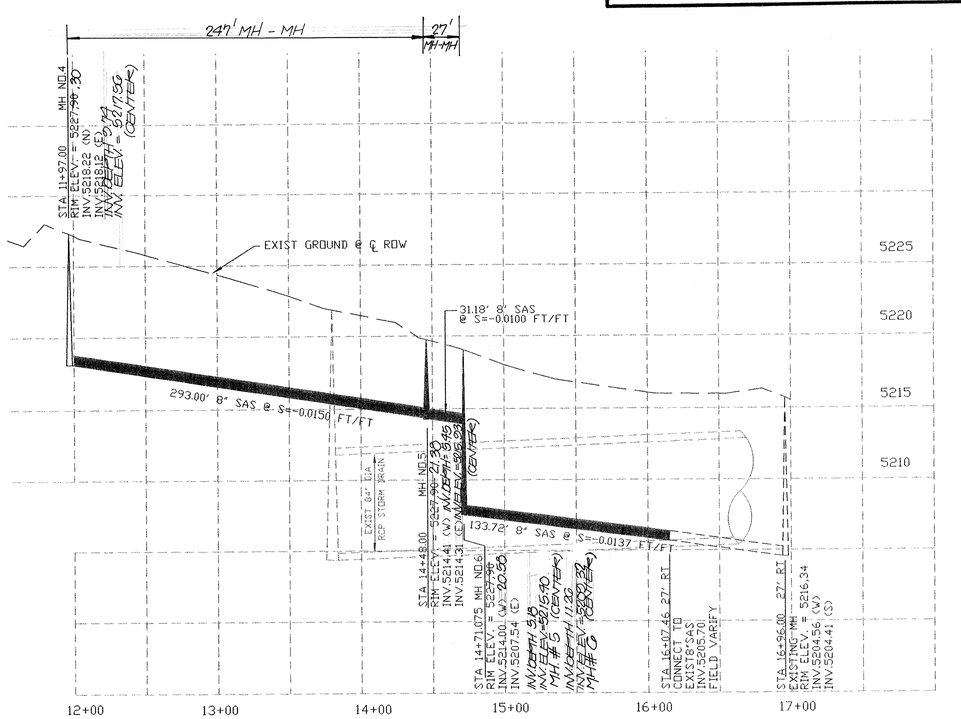


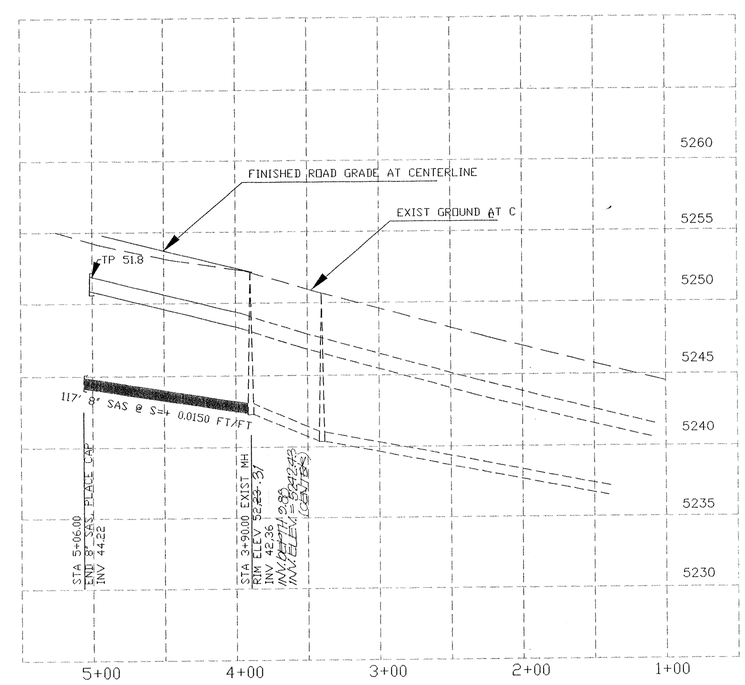


VOLCANO ROAD

RECORD DRAWING

AVALON ROAD





GENERAL NOTES:

1. CONSTRUCT SAS SERVICES PER COA STD. DWG #2125
2. CONSTRUCT FIRE HYDRANT AT DESIGNATED DEPTHS & LENGTHS PER COA STD. DWG #2340
3. CONSTRUCT ALL WATER SERVICES PER COA STD. DWG'S #2361, #2362, #2363
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7. PROVIDE 2" WATER SERVICE FOR 3B PROVIDE 1-1/2" WATER SERVICES FOR TRACTS 3A, 3C AND 3D
8. PROVIDE 6" SAS SERVICE LINES FOR ALL TRACTS

LEGEND

- GATE VALVE w/TYPE 'A' VALVE BOX
- FIRE HYDRANT
- MANHOLE & FLOW DIRECTION
- WATER LINE w/FITTING
- WMB — WATER SERVICE W/ METER BOX
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Charles G. Cala, Jr., NMPLS 11184 — 7-30-99 Date

CHARLES G. CALA, JR. NEW MEXICO 11184 REGISTERED PROFESSIONAL SURVEYOR

AS BUILT INFORMATION

CONTRACTOR		
WORK STAKED BY		DATE
INSPECTOR'S ACCEPTANCE BY		DATE
FIELD VERIFICATION BY		DATE
DRAWINGS CORRECTED BY		DATE

MICRO-FILM INFORMATION

RECORDED BY		DATE
NO.		

BENCH MARKS

"8-K9, 1989
ACS 3-1/4" ALUMINUM CAP
ELEV. 5247.434

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS	BY
1	07/1999	AS-BUILT & CERTIFY	MA

DESIGN

DESIGNED BY	RM	DATE 7/1998
DRAWN BY	RJH	DATE 7/1998
CHECKED BY	RM	DATE 1/1998

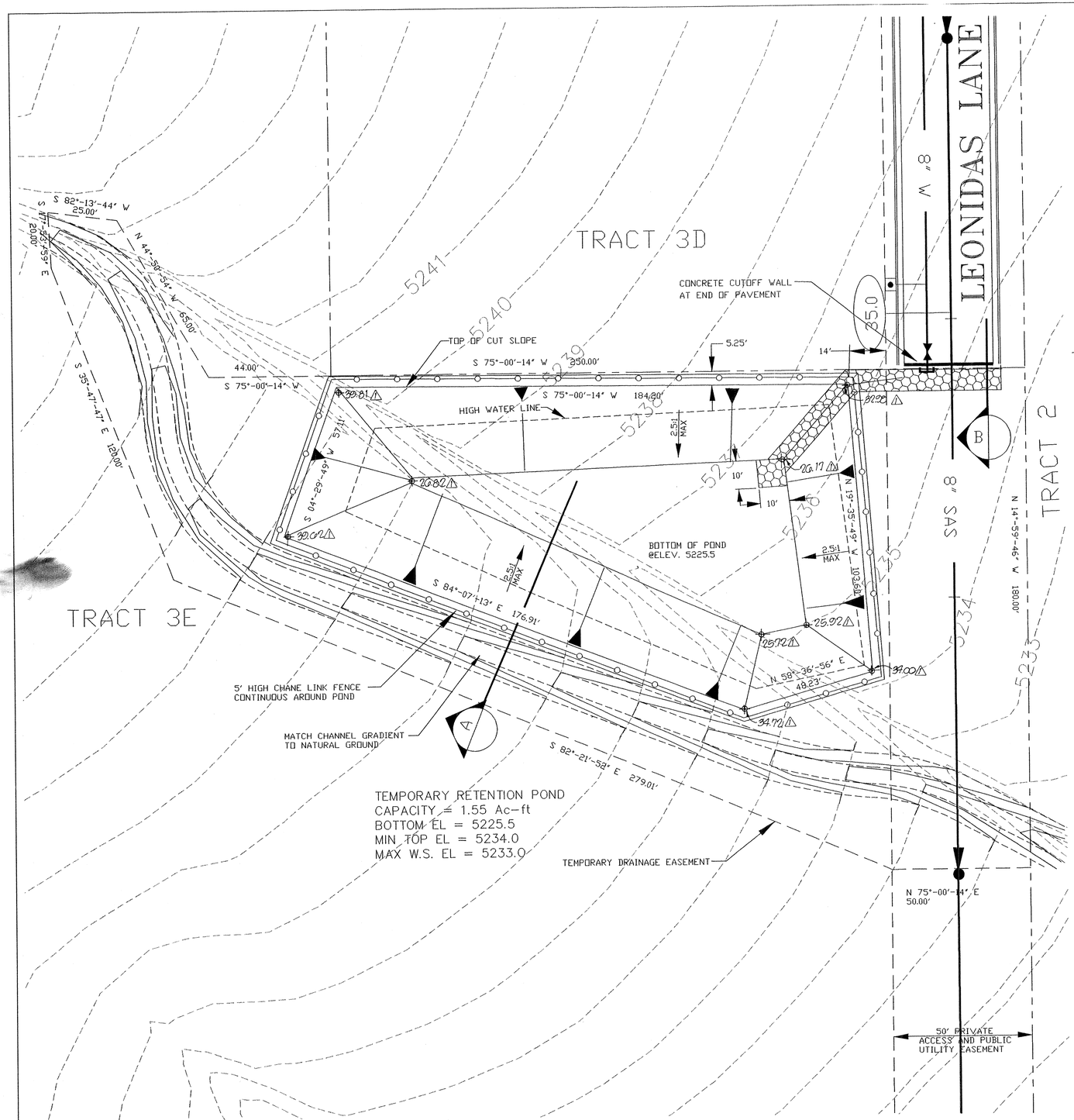
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

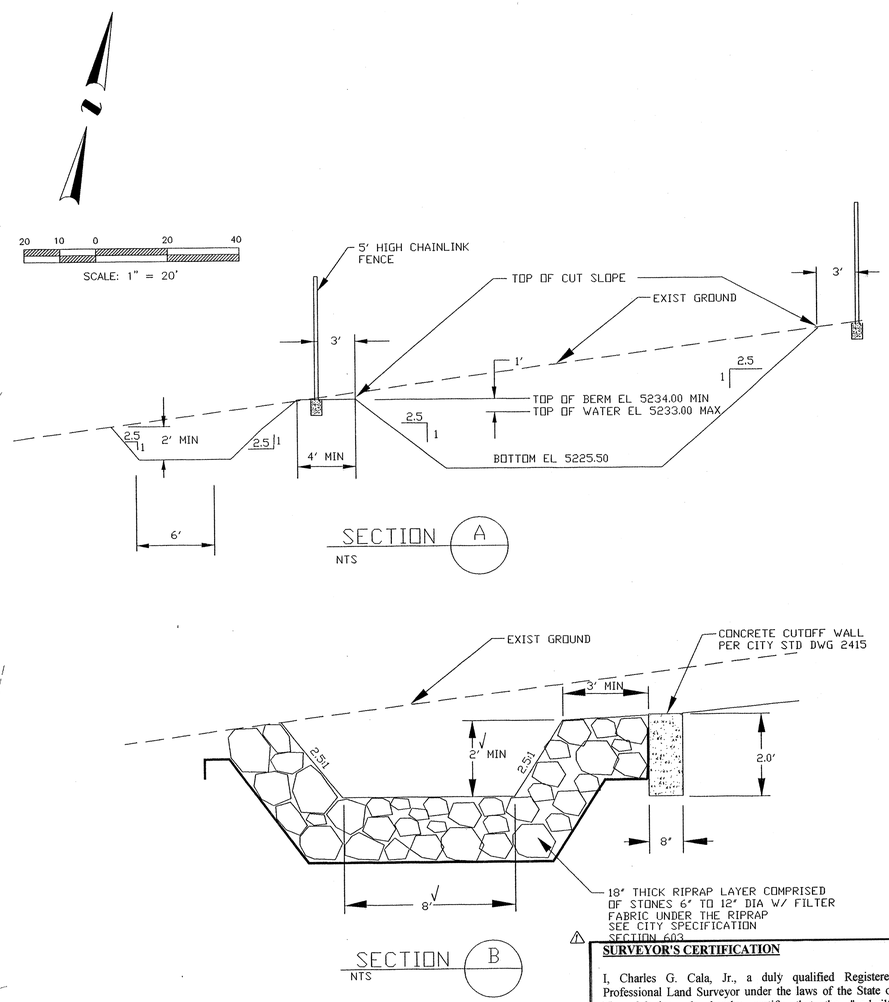
TITLE: TRACTS 3A,3B,3C,3D&3E ROW 2 UNIT A
WEST OF WESTLAND TOWN OF ATRISCO GRANT

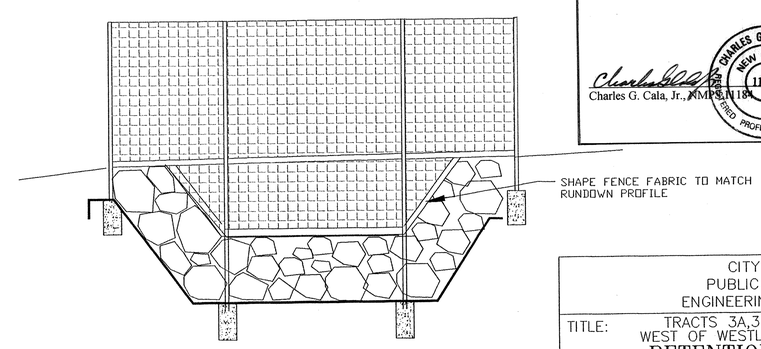
AVALON RD & VOLCANO RD UTILITY PLAN & PROFILE

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED DESIGN REVIEW COMMITTEE				

City Project No.	Zone Map No.	Sheet	of
593481	K-8	8	11







FENCING DETAIL @ RIPRAP LINED RUNDOWN
NTS

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Charles G. Cala, Jr., NMPLS 11184 — Date 7-30-99

CHARLES G. CALA, JR. NEW MEXICO 11184 REGISTERED PROFESSIONAL SURVEYOR

RECORD DRAWING

AS BUILT INFORMATION

CONTRACTOR	
WORK STAKED BY	DATE
INSPECTED BY	
ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

"8-K9, 1989
ACS 3-1/4" ALUMINUM CAP
ELEV. 5247.434

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DUANE W. MACHAN NEW MEXICO 6614 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
1	07/1999	AS-BUILT & GENERALITY	MA

REVISIONS

DESIGN		
DESIGNED BY	RM	DATE 7/1998
DRAWN BY	RJH	DATE 7/1998
CHECKED BY	RM	DATE 1/1998

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: TRACTS 3A,3B,3C,3D&3E ROW 2 UNIT A
WEST OF WESTLAND TOWN OF ATRISCO GRANT

RETENTION POND & DETAILS

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED SEP 10 1998 DESIGN REVIEW COMMITTEE				

City Project No.	Zone Map No.	Sheet	of
593481	K-8	9	11

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

11. CONTRACTOR SHALL NOT BEGIN WORK BEFORE 7:00 A.M. OR END WORK AFTER 7:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

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

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

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

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

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

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

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

19. 24 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

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

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

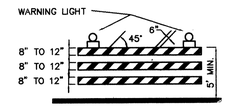
22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
    1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
    2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
    3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS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

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

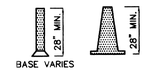
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.

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

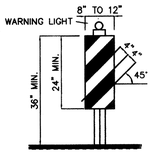
26. ADVANCE WARNING SIGNS SHALL BE 36"x36" WITH SUPER ENGINEERING GRADE SHEETING OR BETTER.



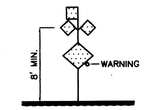
TYPE III BARRICADE



CONES



VERTICAL PANEL

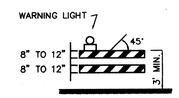


HIGH LEVEL WARNING DEVICE

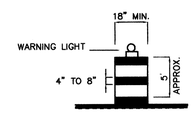
LEGEND

- 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

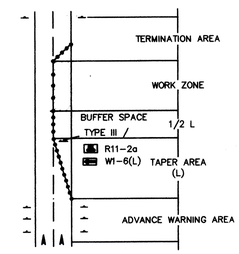
THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.



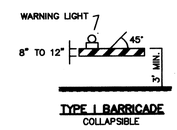
TYPE II BARRICADE
COLLAPSIBLE



BARREL



TRAFFIC CONTROL ELEMENTS



TYPE I BARRICADE
COLLAPSIBLE

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	MINIMUM DISTANCE IN FEET 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

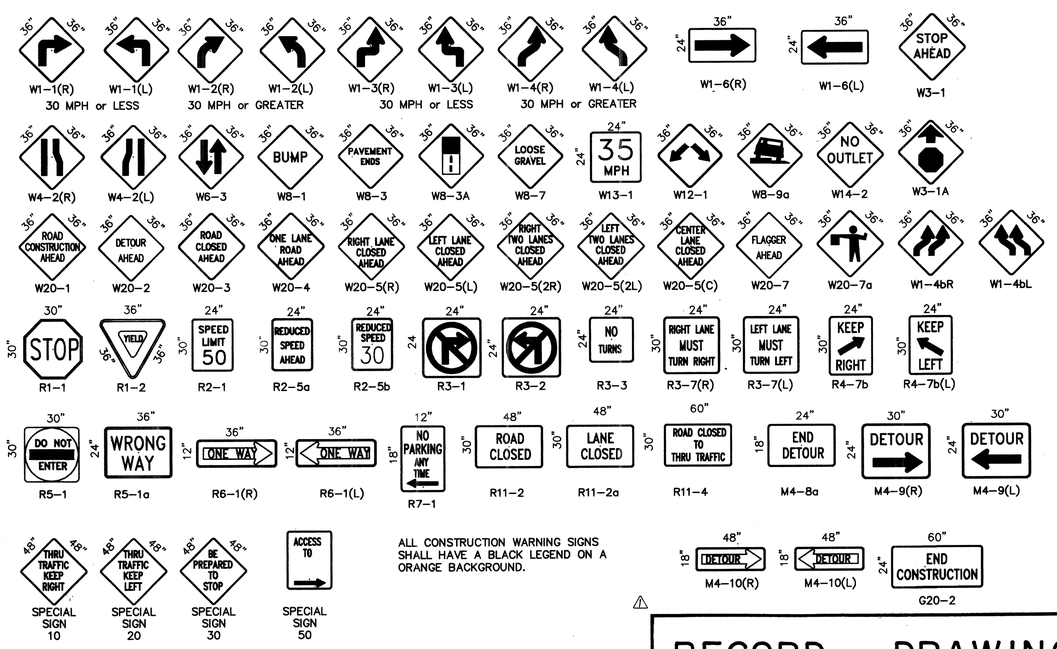
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

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.

RECORD DRAWING

AS BUILT INFORMATION
CONTRACTOR DATE
WORK STAKED BY DATE
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
1	07/1996	RECORD DRAWING	N.A.

REVISIONS

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

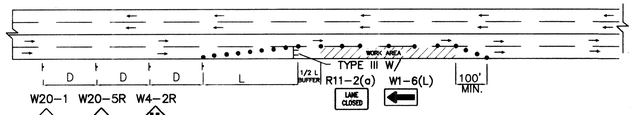
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

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

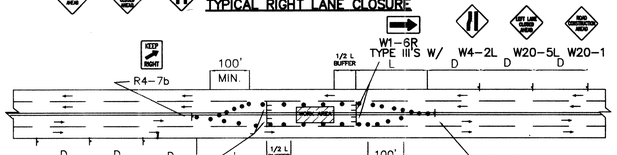
DESIGN REVIEW COMMITEE: C O A Standard
CITY ENGINEER APPROVAL
LAST UPDATE MO./DAY/YR. MO./DAY/YR.

PROJECT NO. 593481 MAP NO. K8 SHEET 10 OF 11

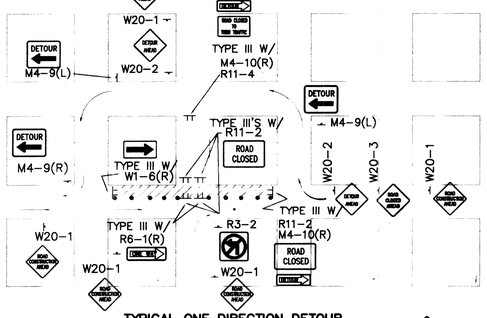
CCSTND1.DWG



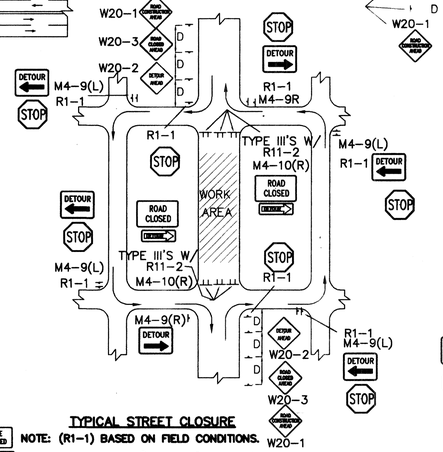
TYPICAL RIGHT LANE CLOSURE



TYPICAL LEFT LANE CLOSURE



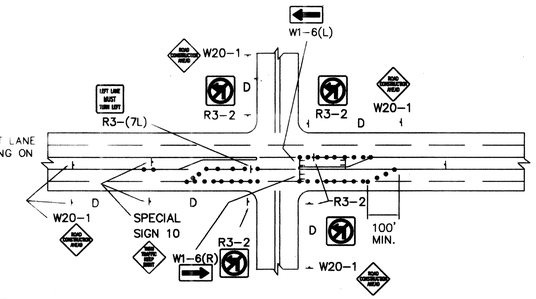
TYPICAL ONE DIRECTION DETOUR



TYPICAL STREET CLOSURE

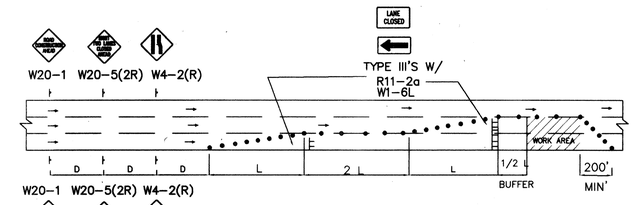
NOTE: (R1-1) BASED ON FIELD CONDITIONS.

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

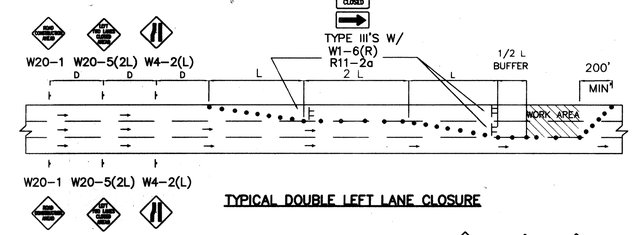


TYPICAL LANE CLOSURE AT INTERSECTION

NOTE: DEPENDING ON WORK ZONE LOCATION

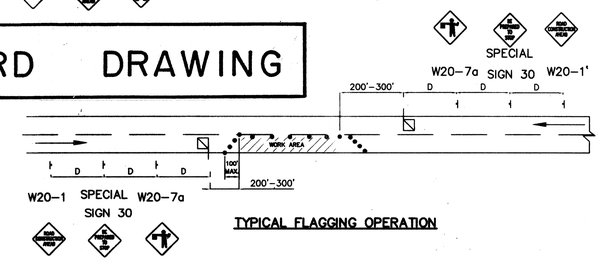


TYPICAL DOUBLE RIGHT LANE CLOSURE

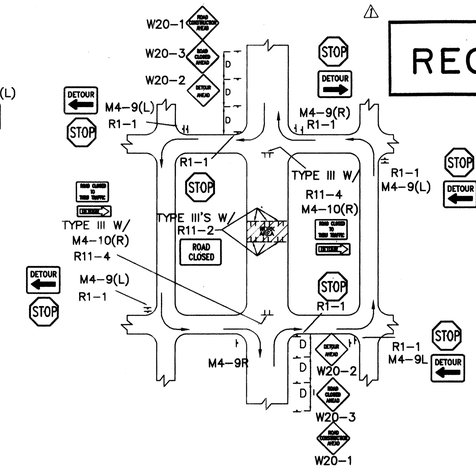


TYPICAL DOUBLE LEFT LANE CLOSURE

RECORD DRAWING

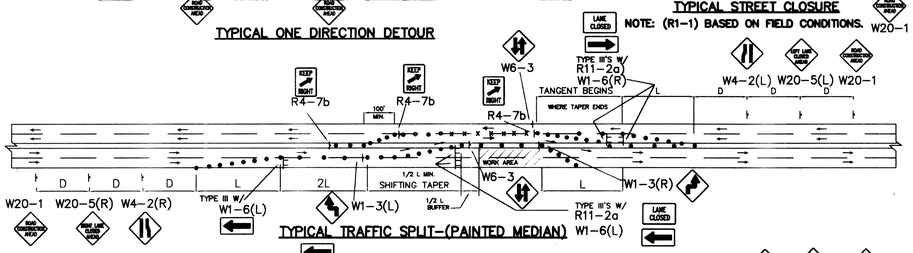


TYPICAL FLAGGING OPERATION

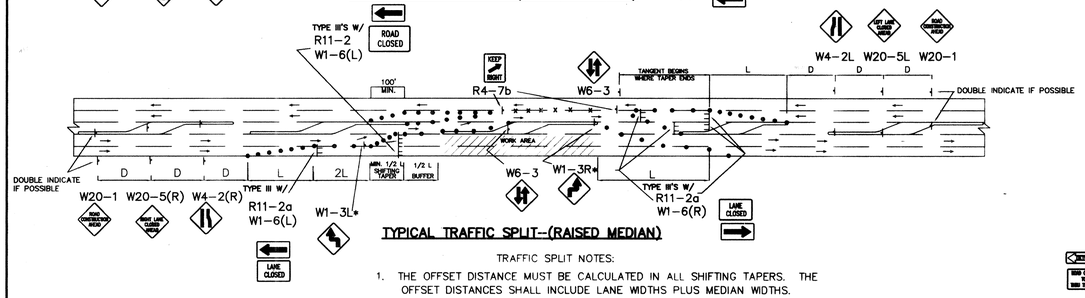


TYPICAL MID-BLOCK CLOSURE

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



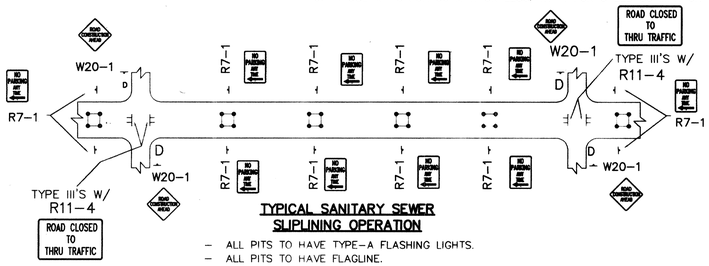
TYPICAL TRAFFIC SPLIT-(PAINTED MEDIAN)



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.



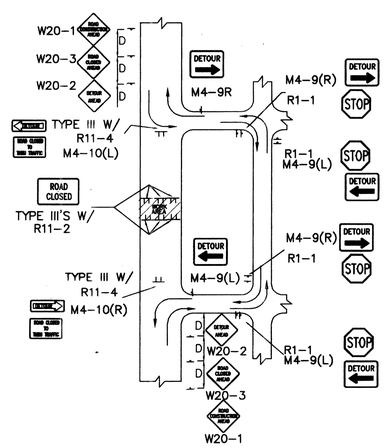
TYPICAL SANITARY SEWER SLIPLINING OPERATION

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

GENERAL NOTE:

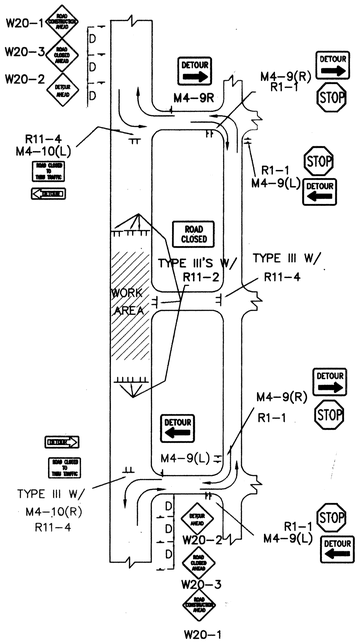
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF FORTY EIGHT (48) INCHES BY FORTY EIGHT (48) INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.



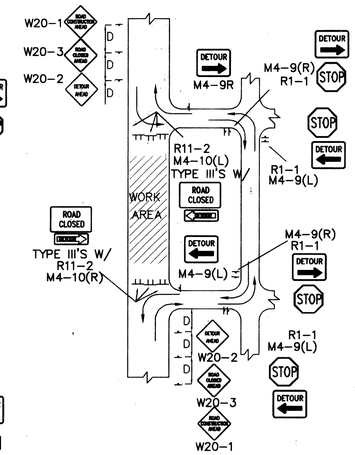
TYPICAL STREET CLOSURE

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.

AS BUILT INFORMATION
CONTRACTOR DATE
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RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
1	01/02/08	RECORD DRAWING	

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 COMMITTEE — CITY ENGINEER APPROVAL — LAST UPDATE — MO./DAY/YR. — MO./DAY/YR.

COA Standard

PROJECT NO. 593481 — MAP NO. K8 — SHEET 11 OF 11

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