

SCANNED BY
PLANNING

CONSTRUCTION PLANS
FOR
EL PUEBLO STORM DRAIN
ALBUQUERQUE, NEW MEXICO

SURVEYOR'S CERTIFICATION

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 Survey is not responsible for any of the design concepts, calculations, engineering, or interpretation of record drawings.

Timothy Aldrich, P.S. No. 7719

1-21-09
Date

INDEX TO DRAWINGS

SHEET NO.	SHEET
1	TITLE SHEET
2-4	BULK LAND PLAT
5	OVERVIEW OF MAJOR DRAINAGE BASINS - NORTH POND
6	MASTER STORM DRAIN PLAN
7-11	STORM DRAIN IMPROVEMENT

I, Mark Goodwin, certify that this electronic version is identical to the original reproducible APPROVED FOR CONSTRUCTION drawings signed by me on _____, 20____.

This set of drawings is accepted for RECORD purposes by _____ on _____, 2009.

RECORD DRAWING
CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Mark Goodwin, NMPSE 89484, of the firm Mark Goodwin & Associates, PA, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site visits by me or personnel under my direction, and survey information provided by Timothy Aldrich, NMPSE number, 7749.

Mark Goodwin NMPE 8948

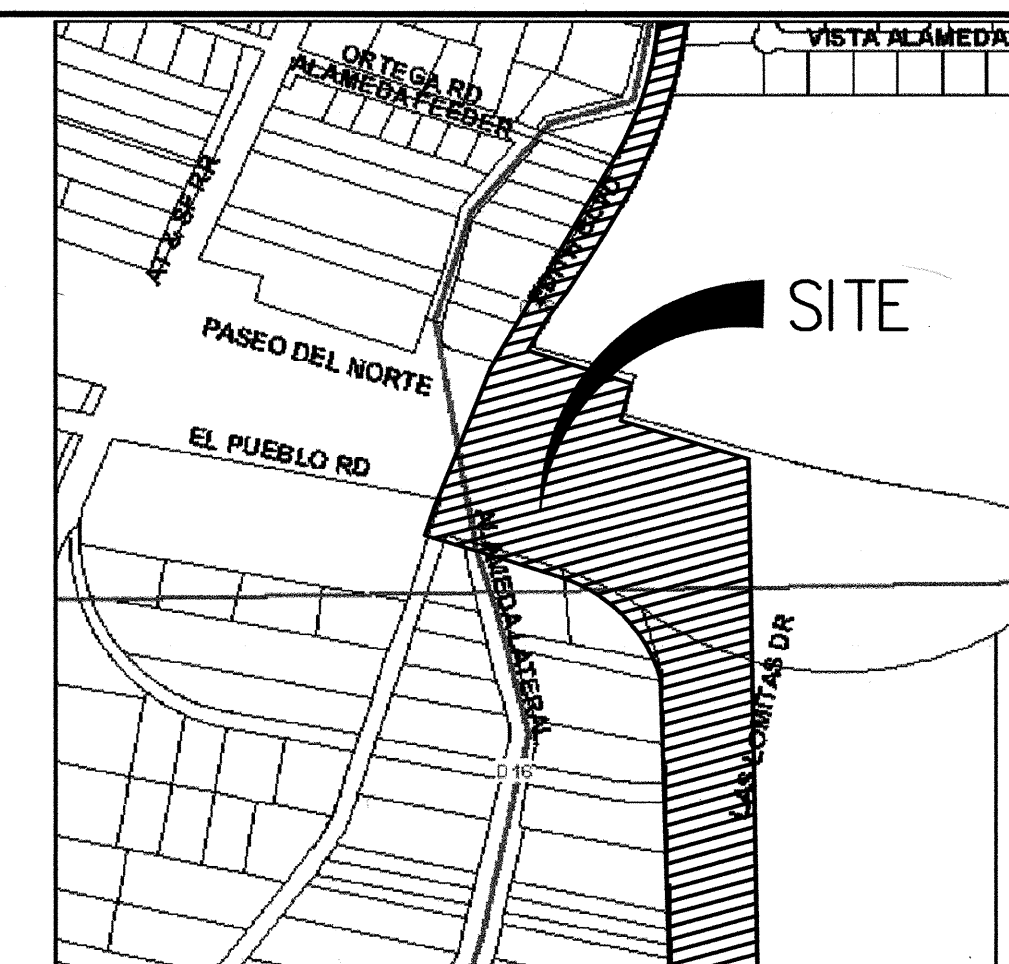
APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER
Anthony [Signature]
DATE: 03/23/09



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) 797-9533

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

[illegible]

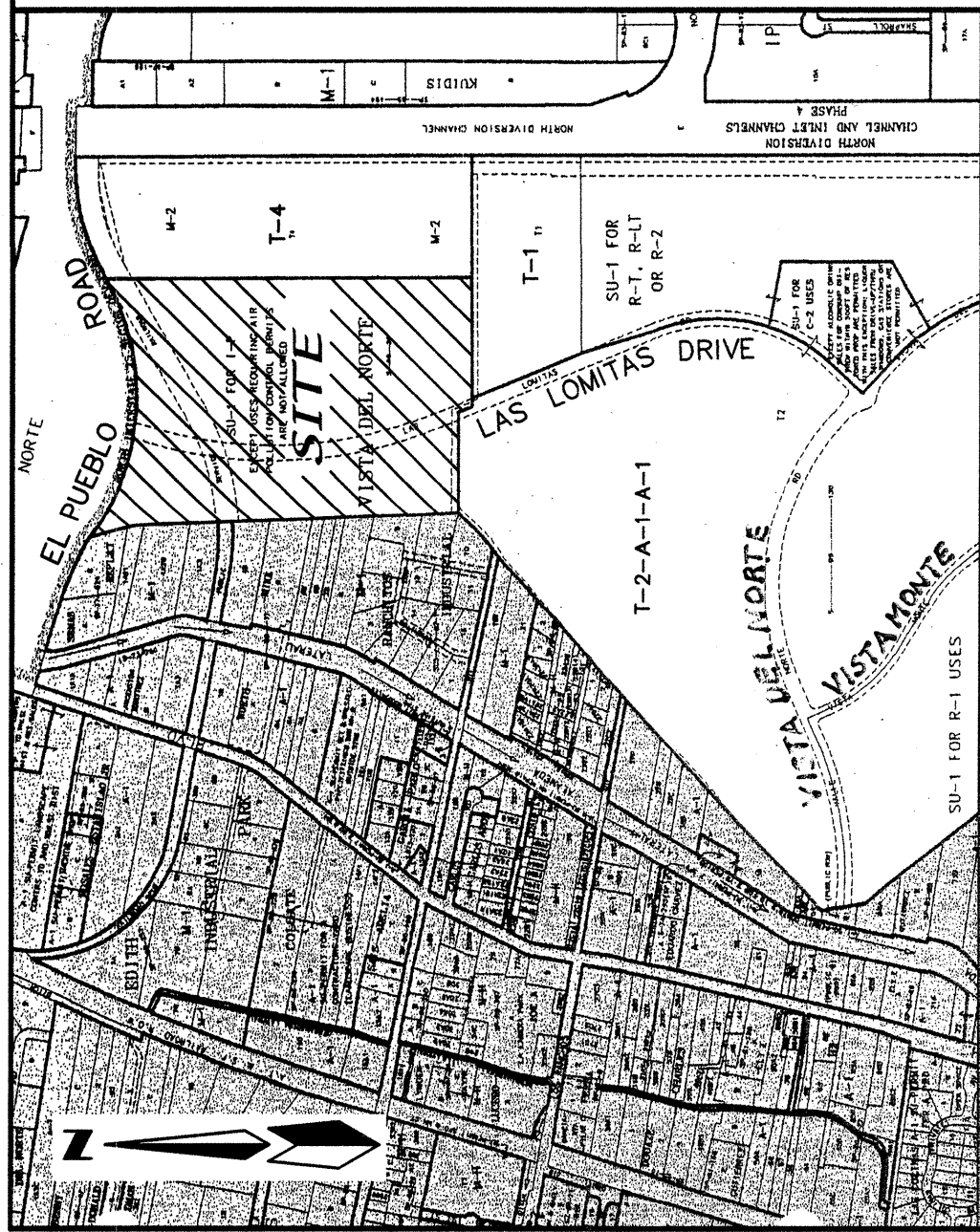
VICINITY MAP ZONE ATLAS: C-19
SCALE: NONE

GENERAL NOTES

NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTION IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. FIVE (5) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION ORDER TO THE CITY SURVEYOR AND A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION COORDINATION ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
6. ALL WORK AFFECTING ARTERIAL ROADWAYS REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
7. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO THE SAME LOCATION AS WAS EXISTING, OR AS INDICATED BY THIS PLAN SET.
8. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO START OF WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT NECESSARY MANAGEMENT. THIS IS DONE ONLY BY THE CITY SURVEYOR. WHEN ANY CHANGE IS MADE IN THE FINISH ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT TO COVER THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
9. CONTRACTOR SHALL RECORD DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAVE BEEN RECORDED.
10. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
11. CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALBUQUERQUE WATER SYSTEMS DIVISION (857-8200) SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING PUBLIC WATER OR SEWER UTILITIES. EXISTING VALVES TO BE OPERATED BY CITY PERSONNEL ONLY. CONTRACTOR SHALL CONTACT THE WATER SYSTEMS DIVISION SEVEN (7) WORKING DAYS PRIOR TO NEEDING VALVES TURNED ON OR OFF.
12. FOR STORM DRAIN CONSTRUCTION, RCP JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.
13. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 28, CFR 1926.65 SUBPART F.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED



LOCATION MAP
ZONE ATLAS D-16-Z
SCALE: NONE

SUBDIVISION DATA

Project # 1002134
Case # 02DRB01199
Zone Atlas No. 38.8315 AC, D-16-Z
No. of existing Tracts/Lots 1 Tract
No. of Tracts/Lots created 6 Tracts
No. of Tracts/Lots eliminated 1 Tract
Miles of full width streets created 0.30
Area dedicated to the City of Albuquerque 5.8744 AC
Date of Survey June, 2002
Utility Control Location System Log Number 2002231600

FREE CONSENT AND DEDICATION:

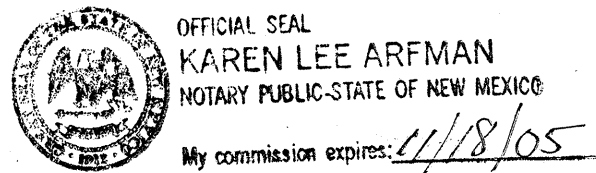
The subdivision hereon described is with the free consent and in accordance with the desires of the undersigned owner(s) and/or proprietor(s) thereof and said owner(s) and/or proprietor(s) do hereby dedicate all streets, public right-of-ways shown hereon to the City of Albuquerque in fee simple with warranty covenants and do hereby grant to 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. Said owner(s) warrant that they hold among them complete and indefeasible title to the land subdivided.

VISTA DEL NORTE DEVELOPMENT, LLC.
BY: JOHN A. MYERS, ASSISTANT MANAGER PRO TEM:

JOHN A. MYERS, ASSISTANT MANAGER PRO TEM
DATE 7-18-02
OWNER'S ACKNOWLEDGMENT
STATE OF NEW MEXICO SS
COUNTY OF BERNALILLO

This instrument was acknowledged before me on July 12, 2002
By John A. Myers, Assistant Manager pro tem Vista Del Norte Development, LLC a
Limited Liability Company on behalf of said Company.

Karen Lee Arfman 11-18-2005
NOTARY PUBLIC MY COMMISSION EXPIRES



THIS IS TO CERTIFY THAT TAXES ARE CURRENT AND
PAID ON LOTS 1-6-02-03-311-132-132-05
PROPERTY OWNER OF RECORD
BEVERLY LO GRANT, PLANNERS OFFICE
Shirley B. Arfman 9-18-02

LEGAL DESCRIPTION (SEE SHEET 2)

NOTES (SEE SHEET 2)

PURPOSE OF PLAT

- Subdivide Tract U, Vista Del Norte into Six (6) Tracts.
- Vacate easements as shown.
- Dedicate Right-of-way as shown.
- Grant easements as shown.

"NOTICE OF SUBDIVISION PLAT VARIANCE" (02DRB-01199)
Tracts "U-1, U-2, U-3, U-4, U-5 AND U-6
Albuquerque, Bernalillo County, New Mexico

The plat for Tracts "U-1 THRU U-6, Vista Del Norte, Albuquerque, Bernalillo County, New Mexico, has been granted a variance or waiver from certain subdivision requirements pursuant to Section 7 of the City of Albuquerque Subdivision Ordinance.

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 upon infrastructure improvements by the owner of water, sanitary 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 and/or site development plans are approved.

By its approval of this subdivision, 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; and excavation, filling or grading requirements. Any person intending development of lands within this subdivision is cautioned to investigate the status of these items.

At such time as all such conditions have been satisfactorily met, the City Engineer shall approve a recordable document, removing such conditions from all or from a portion of the area within the subject subdivision.

SURVEYOR'S CERTIFICATION

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

Timothy Aldrich 07-15-02
Timothy Aldrich PLS. No. 7719

Dwg: BULKCOVER.dwg Drawn: RICHARD Date: 07/11/02 Checked: ALS Sheet 1 of 5
Scale: 1"=1' Job: A01005

LEGAL DESCRIPTION

A Tract Of Land Situate Within The Elena Gallegos Grant, Projected Section 22, Township 11 North, Range 3 East, New Mexico Principal Meridian, City Of Albuquerque, Bernalillo County, New Mexico Being All of Tract U, Vista Del Norte as the same is shown and designated on said plat filed for record in the Office of the County Clerk of Bernalillo County, New Mexico on March 16, 1999 in Book 99C, Page 57 and containing 38.8315 acres more or less.

PUBLIC UTILITY EASEMENTS:

PUBLIC UTILITY EASEMENTS shown on this plat are granted for the common and joint use of:

- 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 electric service to the premises shown on this plat.
- The PNM Gas Services Division for installation, maintenance and service of natural gas lines, valves and any other equipment and facilities reasonably necessary to provide natural gas.
- Qwest for installation, maintenance and service of such lines, cable and other related equipment and facilities reasonably necessary to provide communication services, including but not limited to above ground pedestals and closures.
- Comcast cable for installation, maintenance and service of such lines, cable and other related facilities reasonably necessary to provide Cable TV service.

Included, is the right to build, rebuild, construct, reconstruct, locate, relocate, change, remove, modify, new operate and maintain facilities for the purposes of the easements above, together with the free access to, from and over said easement, including sufficient working area space for electric transformers, with the right and privilege to trim and remove trees, shrubs or bushes which interfere with the purposes set forth herein. No building, sign, pool (above ground or 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 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.

Easements for electric transformers/switchgears, as installed, shall extend ten feet (10') in front of transformer/switchgear doors and five feet (5') on each side.

NOTES

- Bearings are New Mexico State Plane Grid Bearings (Central Zone).
- Distances are ground distances.
- Bearings and distances are field and record.
- Basis of boundary are the following plats (and documents) of record entitled:
PLAT FOR "MESETA DEL NORTE SUBDIVISION", (05-16-02, 2002C-173)

BULK PLAT FOR "TRACTS T-2-A-1-A, T-2-A-1-B, T-2-A-1-C, T-2-A-1-D, T-3-A, AND T-3-B, VISTA DEL NORTE SUBDIVISION", (01-20-02, 2002C-31)

PLAT FOR "VISTA DEL NORTE", (03-16-99, 99C-57)

PLAT FOR "TRACTS T-1, T-2, T-3 & T-4 VISTA DEL NORTE SUBDIVISION", (12-10-99, 99C-331)

all being records of Bernalillo County, New Mexico.

- Field Survey performed June, 2002.
- Unless otherwise noted all point are SET 5/8" REBAR WITH CAP "ALS LS 7719" (TYP).
- Utility Council Location System Log No. 2002231600.

The City has the right to enter upon the grantors property at any time and perform whatever inspection, installation, maintenance, repair modification or removal ("work") it deems appropriate without liability to the city. If the work effects any improvements or encroachments made by the grantor, the city will not be financially or otherwise responsible for rebuilding or repairing of improvements or encroachments. If in the opinion of the city, the work to be performed by the city could endanger the structural integrity of the city, the work to be performed by the city encroachments, the grantor shall, at its own expense, take whatever protective measures are required to safeguard the improvements or encroachments.

- Tract U-1 is dedicated to the City of Albuquerque as a Public Drainage Right-of way with the filing of this plat.

BULK PLAT FOR

TRACTS U-1, U-2, U-3, U-4, U-5 & U-6
VISTA DEL NORTE

WITHIN THE

ELENA GALLEGOS GRANT

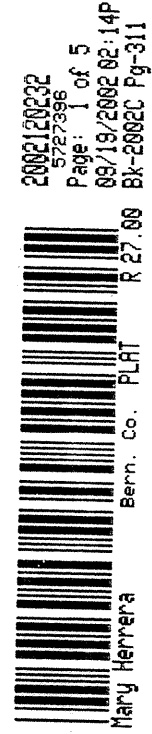
PROJECTED SECTIONS 22 AND 27

TOWNSHIP 11 NORTH, RANGE 3 EAST, NMPM

CITY OF ALBUQUERQUE

BERNALILLO COUNTY, NEW MEXICO

JUNE, 2000



200210022
Page 1 of 5
05/13/2002 02:14P
BMT, CO. PLT
R 27.06 BR-2002 Pg-311

APPROVED AND ACCEPTED BY:

APPROVAL AND CONDITIONAL ACCEPTANCE as specified by the Albuquerque subdivision Ordinance, Chapter 14 Article 14 of the Revised Ordinances of Albuquerque, New Mexico, 1994.

Subdivision Case No. PROJECT #1002134
APPL#02DRB01199

Planning Director, City of Albuquerque, N.M. Date 9/18/02
Bradley A. Brigham

City Engineer, City of Albuquerque, N.M. Date 8/28/02
Richard Dentz

Albuquerque Metropolitan Arroyo Flood Control Authority Date 8-28-02
Richard Dentz

Transportation Development, City of Albuquerque, N.M. Date 8-28-02
Roger A. Shagan

Utility Development Division, City of Albuquerque, N.M. Date 8-28-02
Christina Sandoval

Parks and Recreation Date 8/28/02
John B. Hall

City Surveyor, City of Albuquerque, N.M. Date 7-16-02
NJA (PS)

Property Management, City of Albuquerque, N.M. Date 9-16-02
Leland D. Marks

PNM Gas Date 9-16-02
Leland D. Marks

PNM Electric Date 9-16-02
Cynthia M. Garcia

Qwest Telecommunications Date 9-16-02
Cynthia M. Garcia

Comcast Cable Date 9-16-02
Cynthia M. Garcia

BULK PLAT FOR
TRACTS U-1, U-2, U-3, U-4, U-5 & U-6
VISTA DEL NORTE

WITHIN THE

ELENA GALLEGOS GRANT

PROJECTED SECTIONS 22 AND 27

TOWNSHIP 11 NORTH, RANGE 3 EAST, NMPM

CITY OF ALBUQUERQUE

BERNALILLO COUNTY, NEW MEXICO

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200210022
Page 2 of 5
05/13/2002 02:14P
BMT, CO. PLT
R 27.06 BR-2002 Pg-311

07-15-02

CURVE		CURVE TABLE		CHORD BRC		CHORD
		RADIUS	LENGTH	DELTA	TANGENT	
C1		948.70	19.52	170.44"	9.76	N55°16'34"W 19.52
C2		1104.70	1233.27	63°57'50"	688.81	S86°42'07"E 1170.21
C3		1987.00	598.09	17°45'30"	301.83	N22°31'09"W 596.82
C4		2000.00	312.17	8°56'35"	156.40	S15°52'54"E 317.85
C5		1000.00	545.11	37°13'57"	270.51	N09°44'57"W 538.38
C6		1104.70	251.90	13°03'34"	128.30	S07°29'44"W 251.36
C7		1104.70	71.16	3°41'26"	33.39	S63°37'49"E 71.15
C8		1104.70	795.49	47°15'30"	415.87	N61°56'43"E 778.41
C9		1143.92	230.79	11°52'22"	115.79	N66°37'58"E 230.40
C10		966.00	344.28	20°25'12"	173.88	S05°30'08"W 342.46
C11		1953.00	287.10	8°25'22"	143.81	S18°18'28"E 286.84
C12		2034.00	317.48	8°56'35"	159.06	N09°42'57"W 317.15
C13		966.00	159.82	9°28'46"	80.09	S09°26'51"E 159.64
C14		25.00	37.88	86°49'20"	23.65	S59°07'24"W 34.36
C15		1104.70	57.38	2°56'33"	28.69	S75°58'30"E 57.37
C16		1104.70	56.07	3°00'42"	29.04	S72°58'53"E 56.06
C17		25.00	38.03	87°10'02"	23.79	N27°53'31"W 34.47
C18		1145.92	215.98	10°47'56"	108.31	N81°15'49"E 215.66
C19		1034.00	157.69	8°44'16"	79.00	S09°48'06"E 157.53
C20		1966.00	306.86	8°56'35"	153.74	N09°42'57"W 306.55
C21		2021.00	219.92	6°14'05"	110.07	S02°21'42"E 219.81
C22		2021.00	389.42	17°02'23"	195.32	S16°39'57"E 388.82
C23		1034.00	381.52	27°08'28"	192.96	S05°07'16"W 379.36

LINE DATA		LINE TABLE		BEARING	
		LINE	LENGTH		
L1			71.16	N22°31'09"W	
L2			151.86	N22°31'09"W	
L3			56.94	N22°31'09"W	
L4			30.30	S00°07'16"W	
L5			204.47	S60°05'20"W	
L6			31.91	N57°04'52"E	
L7			47.43	N89°46'50"W	
L8			178.70	N19°31'29"E	
L9			54.39	N19°31'29"E	
L10			100.11	S19°28'59"E	
L11			50.09	N25°31'28"E	
L12			177.13	S78°10'57"W	
L13			176.82	S78°10'57"W	

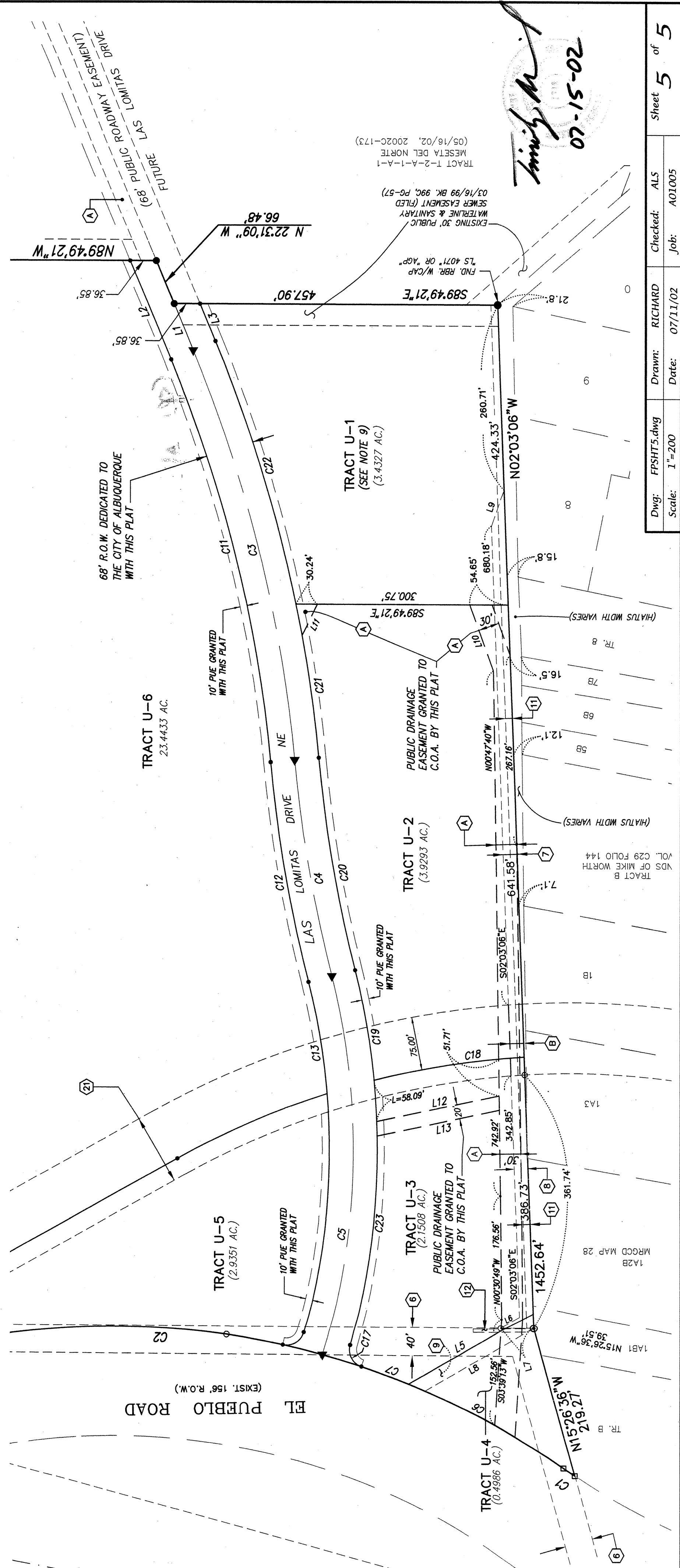
BULK PLAT FOR
TRACTS U-1, U-2, U-3, U-4, U-5 & U-6
VISTA DEL NORTE

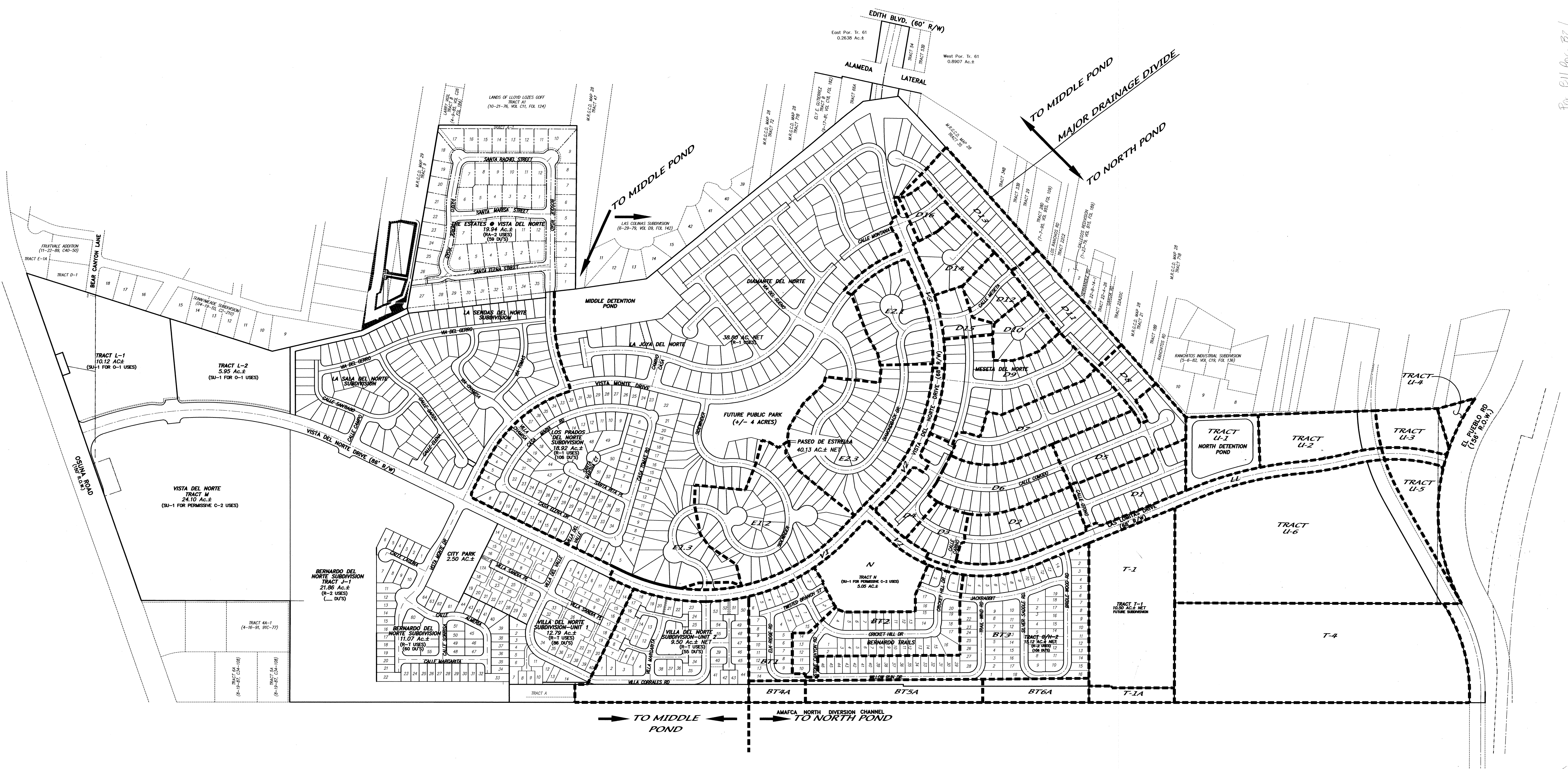
WITHIN THE
ELENA GALLEGOS GRANT
PROJECTED SECTIONS 22 AND 27
TOWNSHIP 11 NORTH, RANGE 3 EAST, NMPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JUNE, 2000

380212822
P. 25
88/13/28812.14P
Bern. Co., FLAT 1 & 27.08 84-2882 Pg-311
May Herrera



100' 50' 0 100' 200'
SCALE: 1" = 100'

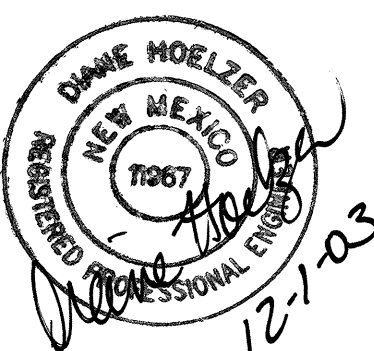
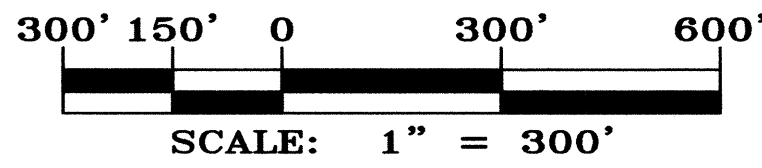




RECORD DRAWING
CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Mark Goodwin, NMPE 8948, of the firm Mark Goodwin & Associates, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by Timothy Aldrich, NMPS number 7719.

Mark Goodwin NMPE 8948



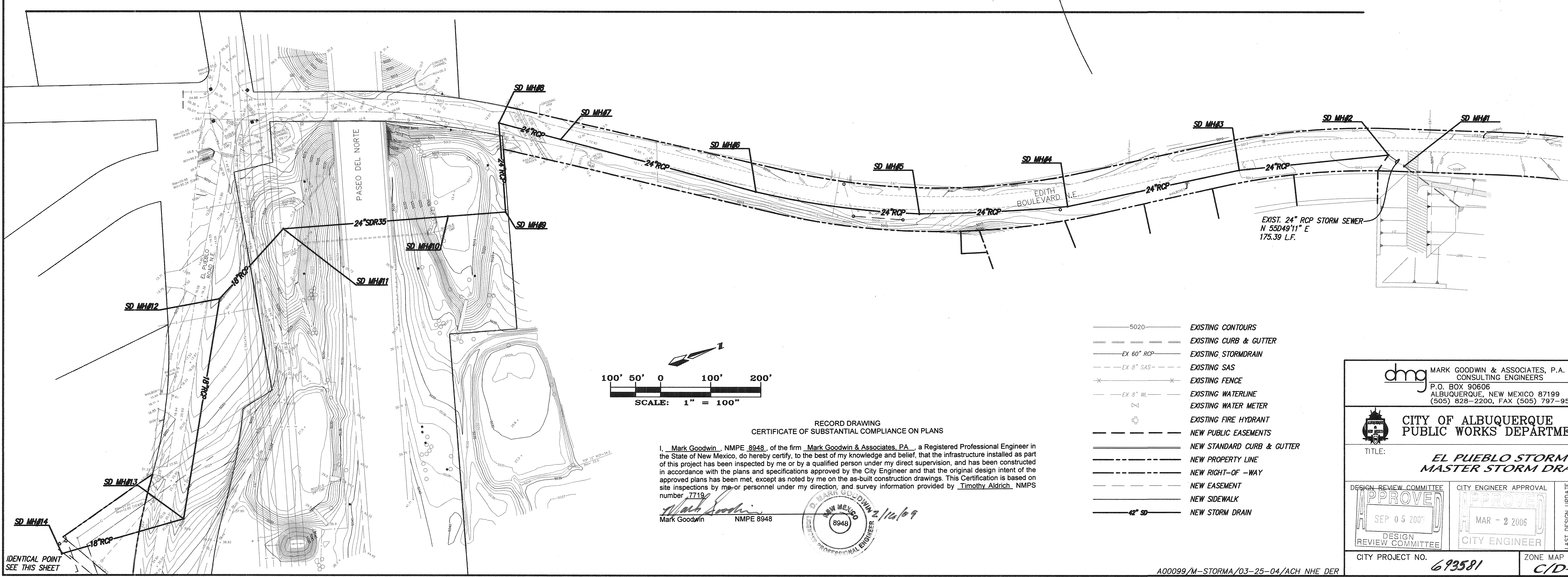
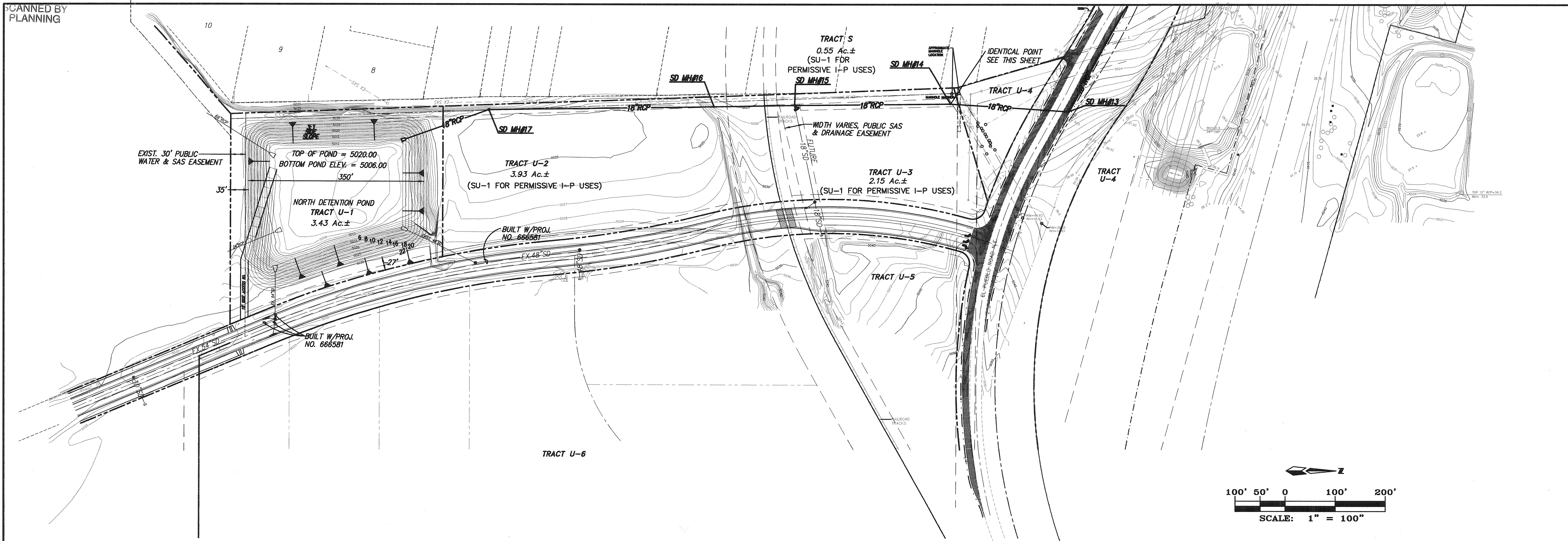
VISTA DEL NORTE
OVERVIEW OF MAJOR DRAINAGE
BASINS - NORTH POND

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

Designed: DMG	Drawn: SPS	Checked: DMG	Sheet 5 of 27
Scale: 1" = 300'	Date: 01/30/02	Job:	

A1138DRHORTON/EXHIBIT-C/06-27-02/DLH
XREF:1005Cvdr\EXHIBIT BASE.dwg

SCANNED BY
PLANNING



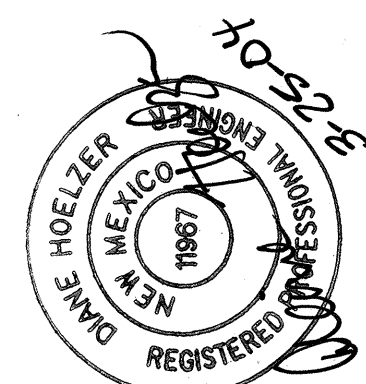
IDENTICAL POINT SEE THIS SHEET

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	FIELD NOTES	DATE	BY	CONTRACTOR	DATE
				ALC 1 1/4" Alum. disk, stamped "ALC 8/13/10"	10/9
				on top of concrete headwall of drainage structure, btm. PPN and PPN South Frontage Road NE, 0.15 mi. E. of centerline of Edith Blvd., 5.3' south of the PPN south Row fence, on NW end of said concrete wall. Elevation = 5034.931	10/9

ENGINEER'S SEAL		REVISIONS		DESIGN	
NO.	DATE	REMARKS	BY	DATE	DATE
				DLH	04/01
				ACH	04/01
				DMG	04/01

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT	
TITLE: EL PUEBLO STORM DRAIN MASTER STORM DRAIN PLAN	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
APPROVE SEP 05 2007 DESIGN REVIEW COMMITTEE	APPROVE MAR - 2 2006 CITY ENGINEER
CITY PROJECT NO. 693581	ZONE MAP NO. C/D-16
SHEET 6	OF 11

10-52-2-3



LEGEND

- REMOVE & REPLACE EXISTING PAVEMENT
PER C.O.A. STANDARD DWG #2465
- HYDRAULIC GRADE LINE (WORST CASE)

NOTES:

- CONTRACTOR SHALL NOTIFY NMHS&T DEPARTMENT AT 841-2700 AT LEAST (7) SEVEN DAYS IN ADVANCE OF PERFORMING WORK WITHIN STATE HIGHWAY RIGHT-OF-WAY.
- WRITTEN AUTHORIZATION MUST BE OBTAINED FROM NMHS&T DEPARTMENT OFFICIALS PRIOR TO ENTERING RESTRICTED ACCESS AREAS.
- CONTRACTOR WILL RESTORE DISTURBED AREAS TO PRE-CONSTRUCTION CONDITIONS PER NMHS&T DEPARTMENT STANDARDS.

LINE	BEARING	DISTANCE
L5	S 30°36'05" W	305.73'
L6	S 33°23'58" W	378.72'
L7	S 25°17'00" W	142.67'
L8	S 73°53'21" E	134.76'
L9	S 15°33'07" W	103.14'
L10	S 14°47'55" W	333.82'
L11	S 25°28'46" E	193.06'

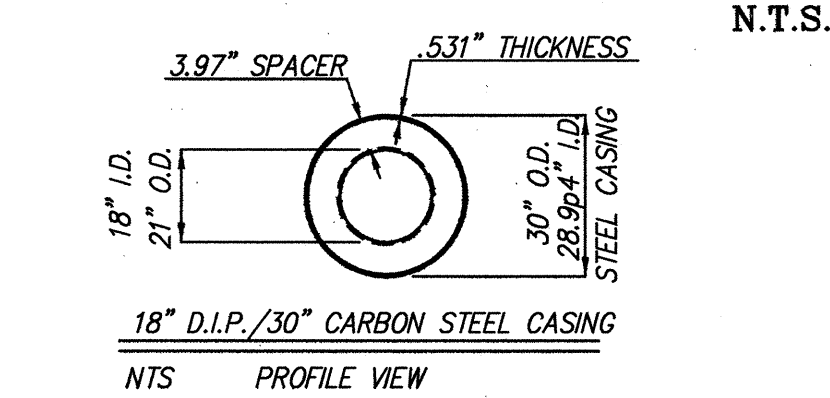
POINT	NORTHING	EASTING	RIM ELEVATION	DESCRIPTION
105	1520122.58	392037.43	5011.93	MH 6
106	1519806.41	391828.36	5012.06	MH 7
107	1519877.40	391768.02	5013.44	MH 8
108	1519640.00	391897.49	5019.24	MH 9
109	1519540.64	391869.84	5013.98	MH 10
110	1519217.89	391784.57	5010.48	MH 11

EDITH BLVD N.E.
STORM DRAIN
STA. 10+00.00 TO STA. 21+00.00
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

NOTES

- STORM DRAIN IS CENTERLINE OF CONSTRUCTION (CLOC)
- FOR MANHOLES #10 & #11, WATERPROOF RIM & COVERS MUST BE INSTALLED.
- REFER TO C.O.A. STANDARD DWG #2465 FOR ASPHALT REPLACEMENT.

RAILROAD DETAIL



RAILROAD CONSTRUCTION NOTES

- ALL METALLIC PIPES SHALL BE COATED AND CATHODICALLY PROTECTED. ALL METALLIC PIPES SHALL BE DESIGNED FOR EFFECTIVE CORROSION CONTROL FOR A PERIOD OF 100 YEARS.
- ALL WORK WITHIN 25 FEET OF THE TRACK CENTERLINE WILL REQUIRE FLAGGING.
- UNDERGROUND UTILITY CROSSINGS OF RAILROAD SHALL BE DESIGNED TO CARRY COOPER'S E-80 RAILROAD LIVE LOADING WITH DIESEL IMPACT.

CARRIER PIPE SPECS.

PIPE MATERIAL: DUCTILE IRON PIPE
SIZE: 18"
YIELD STRENGTH: 42,000 PSI
WALL THICKNESS: 1.5"
TYPE OF JOINTS: MECHANICAL

CASING PIPE SPECS.

72 LF OF CASING
NUMBER OF SPACERS: PER MANUFACTURERS RECOMMENDATION.
PIPE MATERIAL: CARBON STEEL
SIZE: 28.94" I.D. (30" - OUTSIDE DIAMETER)
YIELD STRENGTH: 35,000 PSI (MINIMUM)
WALL THICKNESS: 0.531" (MINIMUM)
TYPE OF JOINTS: WELDED
COATING: FUSION BONDED APOXY
GROUND COVER (BASE OF RAIL TO TOP OF CASING): 5.5 FT (MIN.)
TYPE OF CASING SUPPORTS: MODEL S 1 B-2-CR OR SIMILAR
METHOD OF INSTALLATION: JACK AND BORE
SPACER TYPE: MODEL NO. S1B-2-CR BY ADVANCED PRODUCTS AND SYSTEMS, OR EQUAL

PASEO DEL NORTE CONSTRUCTION NOTES

CARRIER PIPE SPECS. & SPACER SPECS

PIPE MATERIAL: DUCTILE IRON PIPE
SIZE: 18" I.D., 20" O.D.
SPACER TYPE: MODEL NO. S1B-2-CR BY ADVANCED PRODUCTS AND SYSTEMS, OR EQUAL. PLACE SPACERS PER MANUFACTURERS RECOMMENDATION.

CASING PIPE SPECS.

PIPE MATERIAL: ASTM A53 GRADE B STEEL PIPE
SIZE: 30" I.D.
YIELD STRENGTH: 35,000 PSI (MINIMUM)
WALL THICKNESS: 0.531" (MINIMUM)
TYPE OF JOINTS: WELDED
METHOD OF INSTALLATION: JACK AND BORE

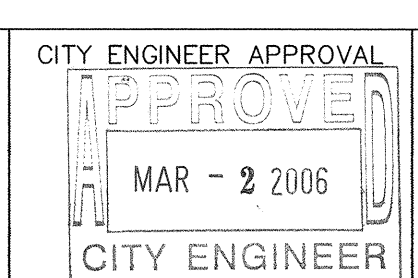


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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

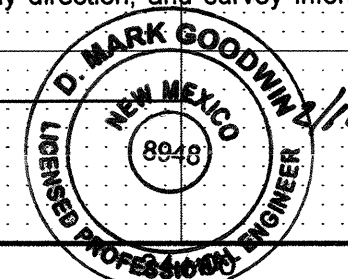
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STORM DRAIN IMPROVEMENTS

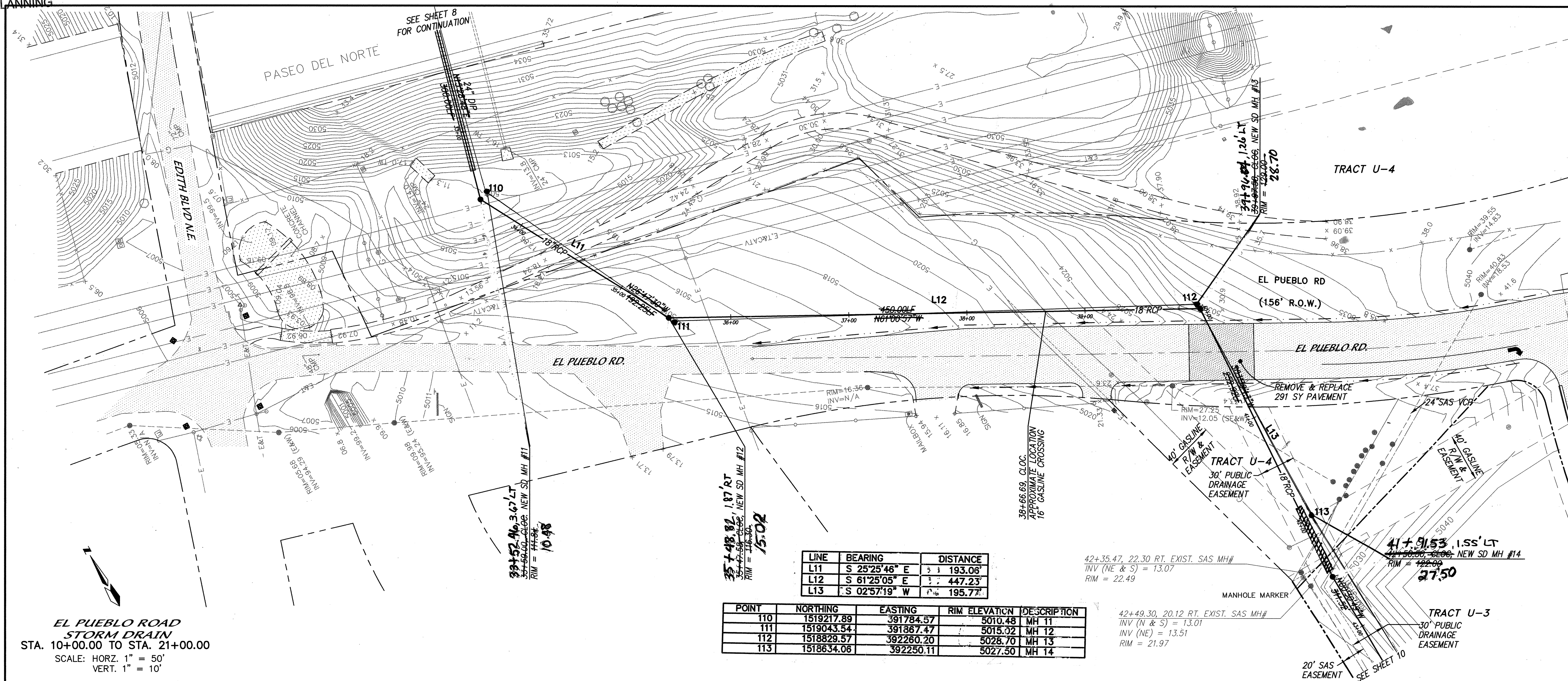


MO./DAY/YR.	MO./DAY/YR.
DESIGN	REVISIONS
DATE	DATE
01/01	01/01
01/01	01/01

CITY PROJECT NO. 693581 ZONE MAP NO. C/D-16 SHEET 8 OF 11

Mark Goodwin, NMPE 8948, of the firm Mark Goodwin & Associates, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by Timothy Aldrich, NMPS number 7739.

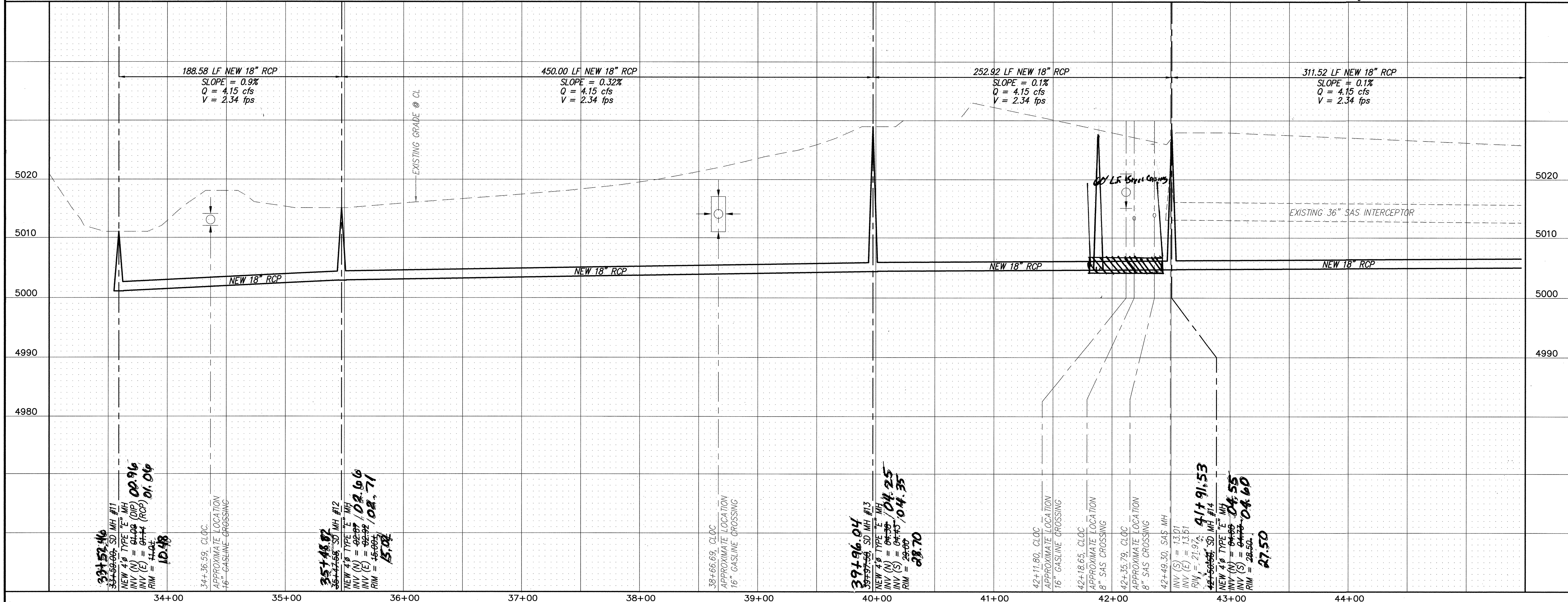




**EL PUEBLO ROAD
STORM DRAIN**
STA. 10+00.00 TO STA. 21+00.00
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

POINT	NORTHING	EASTING	RIM ELEVATION	DESCRIPTION
L11	1519217.89	391784.57	5010.48	MH 11
L12	1519043.54	391867.47	5015.32	MH 12
L13	1518829.57	392260.20	5028.70	MH 13
L14	1518634.06	392250.11	5027.50	MH 14

LINE	BEARING	DISTANCE
L11	S 25°25'46" E	311.06'
L12	S 61°25'05" E	447.23'
L13	S 02°57'19" W	195.77'



NOTES

1. STORM DRAIN IS CENTERLINE OF CONSTRUCTION (CLOC).
2. REFER TO C.O.A. STANDARD DRAWINGS 2102 & 2107 FOR MANHOLE DEPTHS GREATER THAN 20'.
3. REFER TO C.O.A. STANDARD DRAWING 2465 FOR ASPHALT REPLACEMENT.

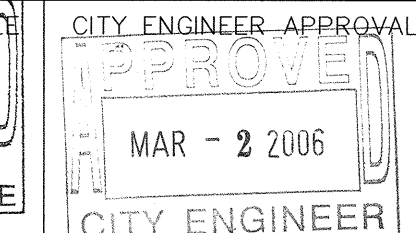
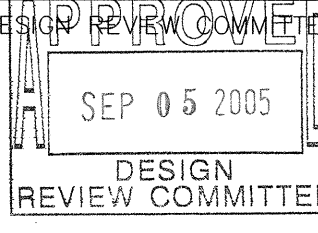
RECORD DRAWING
CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS
I, Mark Goodwin, NMPE 8848, of the firm, Mark Goodwin & Associates, P.A., a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direct supervision and survey information provided by Timothy Adcock, NMPS number 27133.
Mark Goodwin
NMPE 8848



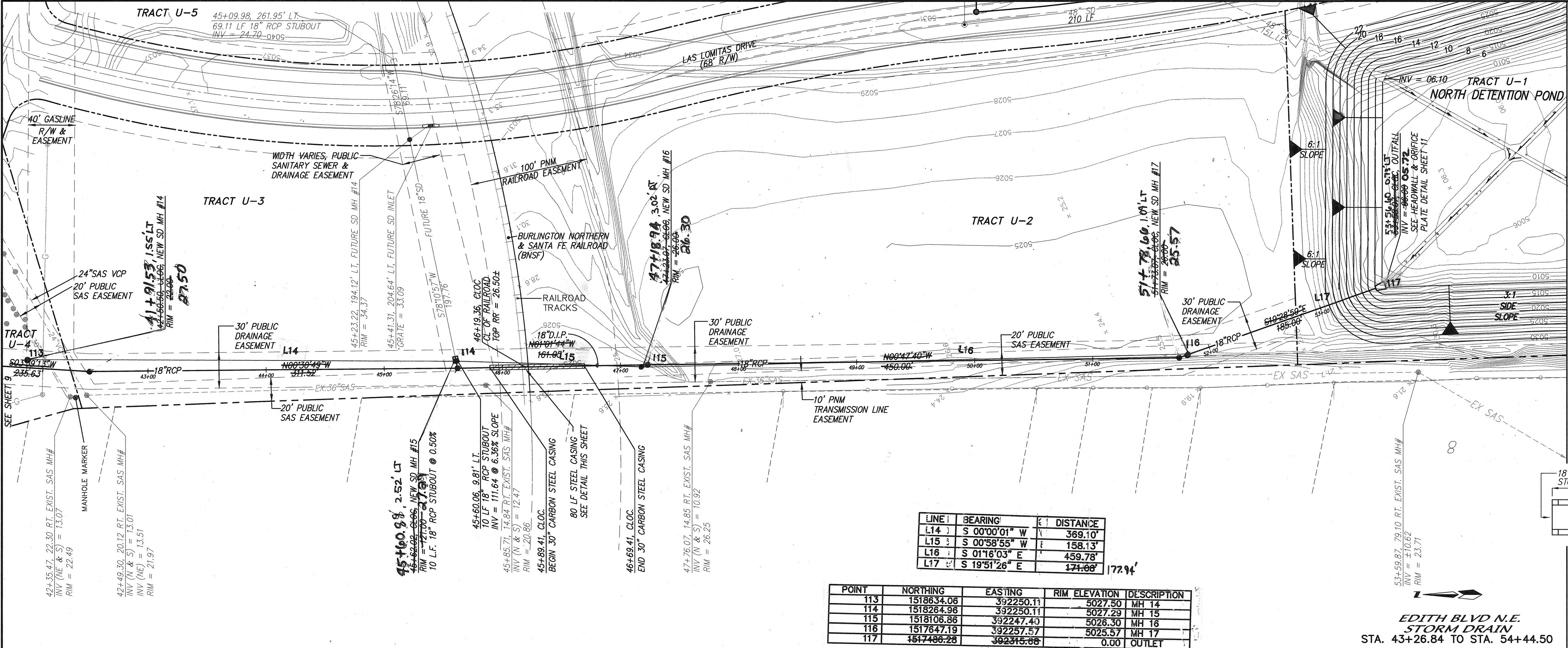
dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT**

TITLE:
**EL PUEBLO STORM DRAIN
STORM DRAIN IMPROVEMENTS**



CITY PROJECT NO. **693581** ZONE MAP NO. **C/D-16** SHEET **9** OF **11**



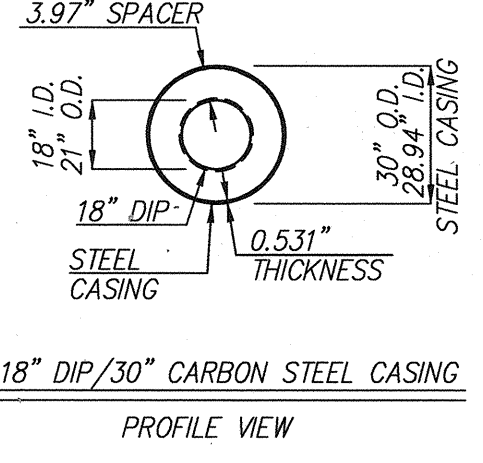
LINE	BEARING	DISTANCE
L14	S 00°00'01" W	369.10'
L15	S 00°58'55" W	158.13'
L16	S 01°16'03" E	459.78'
L17	S 19°51'26" E	174.68'

POINT	NORTHING	EASTING	RIM ELEVATION	DESCRIPTION
113	1518634.08	392250.11	5027.50	MH 14
114	1518284.98	392250.11	5027.29	MH 15
115	1518106.86	392247.40	5028.30	MH 16
116	1517647.19	392257.57	5025.57	MH 17
117	1517486.28	392315.68	0.00	OUTLET

EDITH BLVD N.E.
STORM DRAIN
STA. 43+26.84 TO STA. 54+44.50
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

NOTES

1. STORM DRAIN IS CENTERLINE OF CONSTRUCTION (CLOC)



RAILROAD CONSTRUCTION NOTES

1. ALL METALLIC PIPES SHALL BE COATED AND CATHODICALLY PROTECTED. ALL METALLIC PIPES SHALL BE DESIGNED FOR EFFECTIVE CORROSION CONTROL FOR A PERIOD OF 100 YEARS.
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3. UNDERGROUND UTILITY CROSSINGS OF RAILROAD SHALL BE DESIGNED TO CARRY COOPER'S E-80 RAILROAD LIVE LOADING WITH DIESEL IMPACT.

CARRIER PIPE SPECS.
PIPE MATERIAL: DUCTILE IRON
SIZE: 18"
YIELD STRENGTH: 42,000 PSI
WALL THICKNESS: 1.5"
TYPE OF JOINTS: MECHANICAL

CASING PIPE SPECS.
80 LF OF CASING
NUMBER OF SPACERS: PER MANUFACTURERS RECOMMENDATIONS.
PIPE MATERIAL: CARBON STEEL
SIZE: 28.94" I.D. (30" - OUTSIDE DIAMETER)
YIELD STRENGTH: 35,000 psi (MINIMUM)
WALL THICKNESS: 0.531" (MINIMUM)
TYPE OF JOINTS: WELDED
COATING: FUSION BONDED APOXY
GROUND COVER (BASE OF RAIL TO TOP OF CASING): 19.0 FT (±)
TYPE OF CASING SUPPORTS: MODEL S I 8-2-CR OR SIMILAR
METHOD OF INSTALLATION: JACK AND BORE

LEGEND

----- HYDRAULIC GRADE LINE (WORST CASE)

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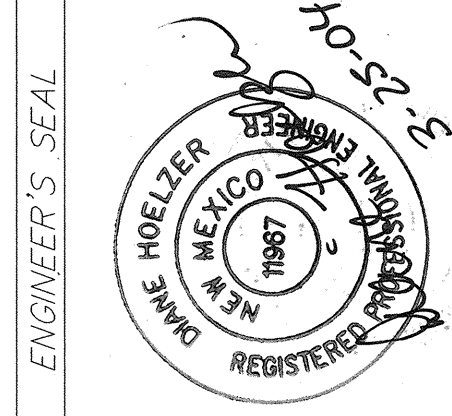
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: **EL PUEBLO STORM DRAIN STORM DRAIN IMPROVEMENTS**

DESIGN REVIEW COMMITTEE
APPROVED
SEP 05 2005
DESIGN REVIEW COMMITTEE

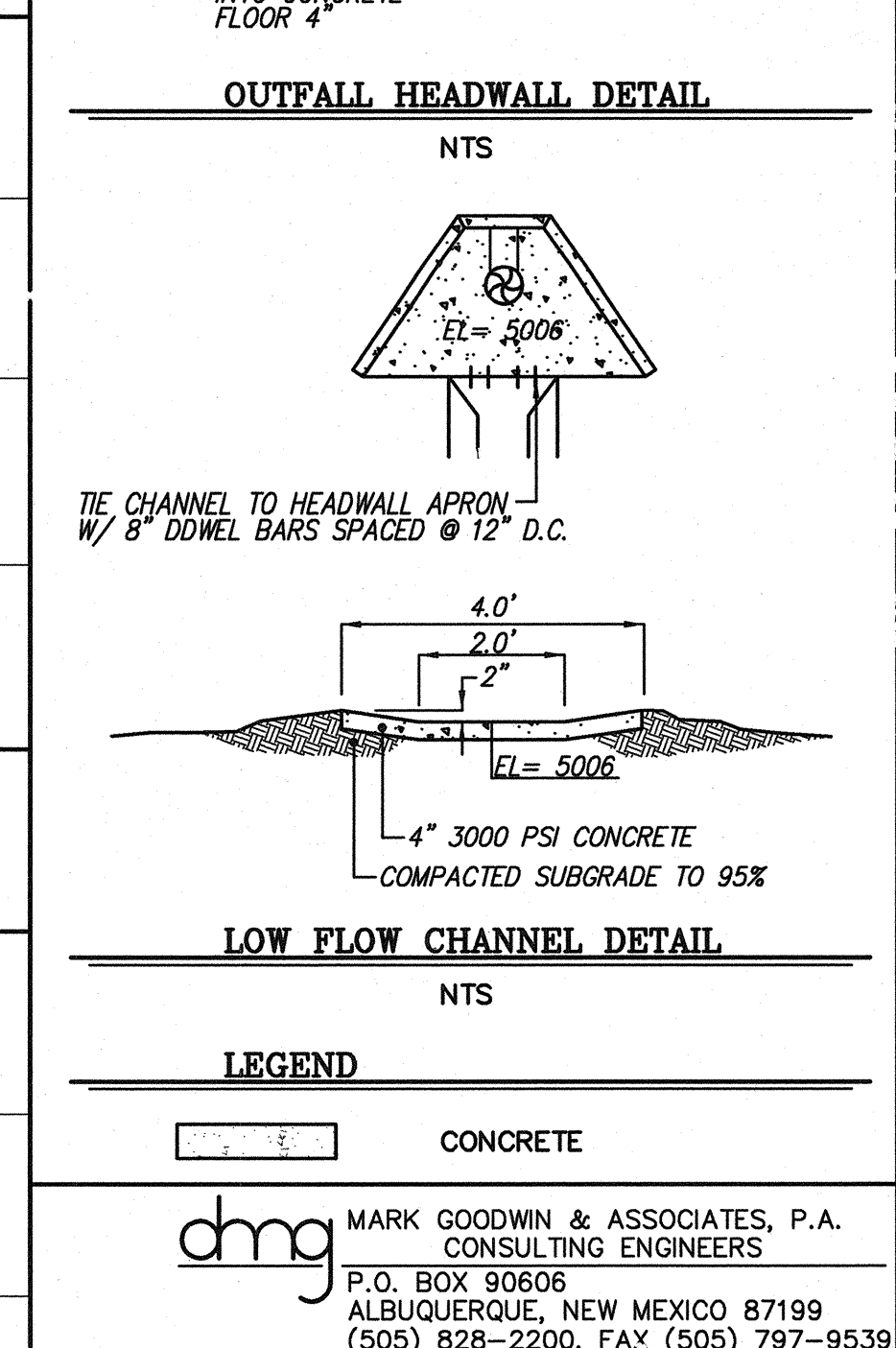
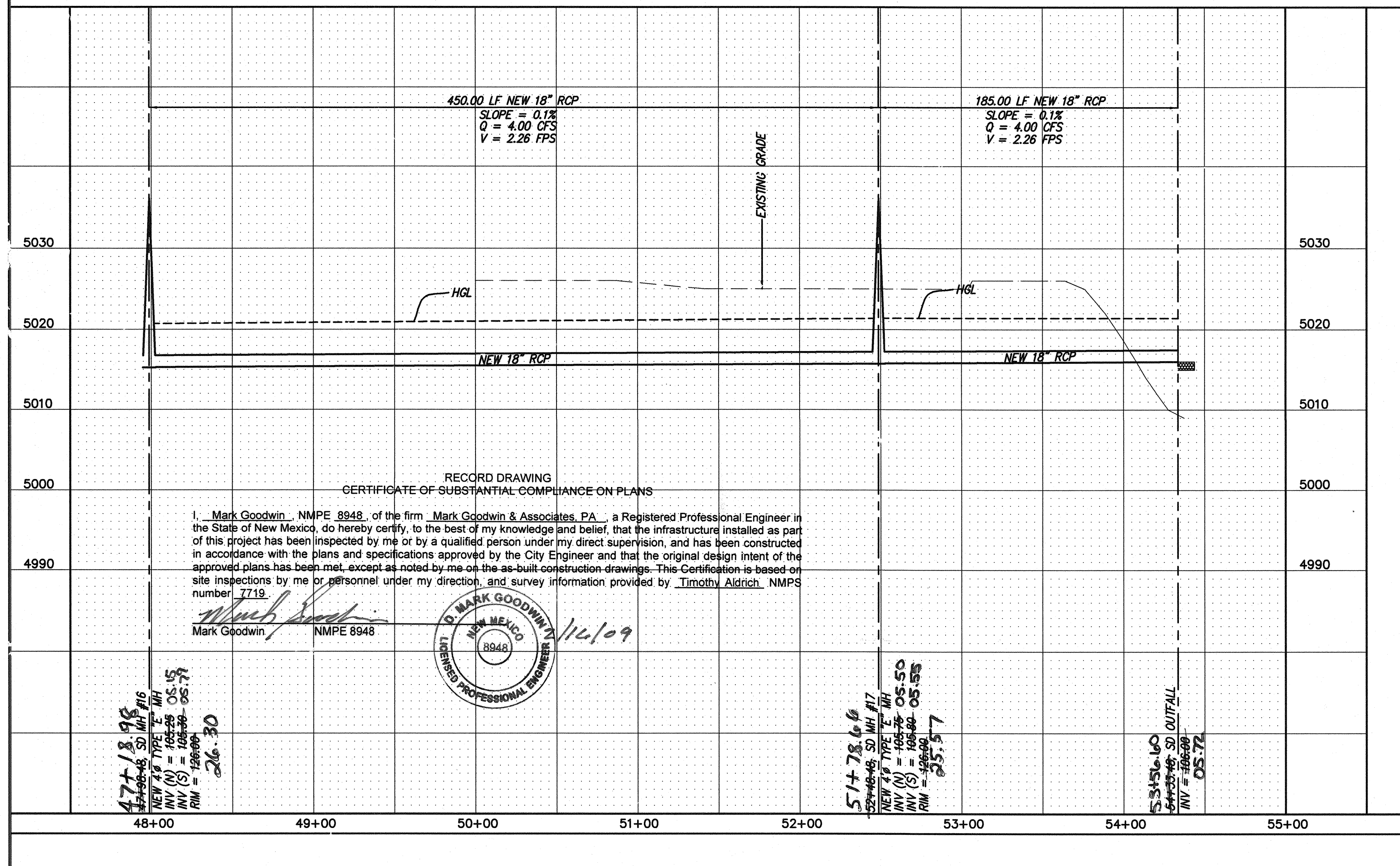
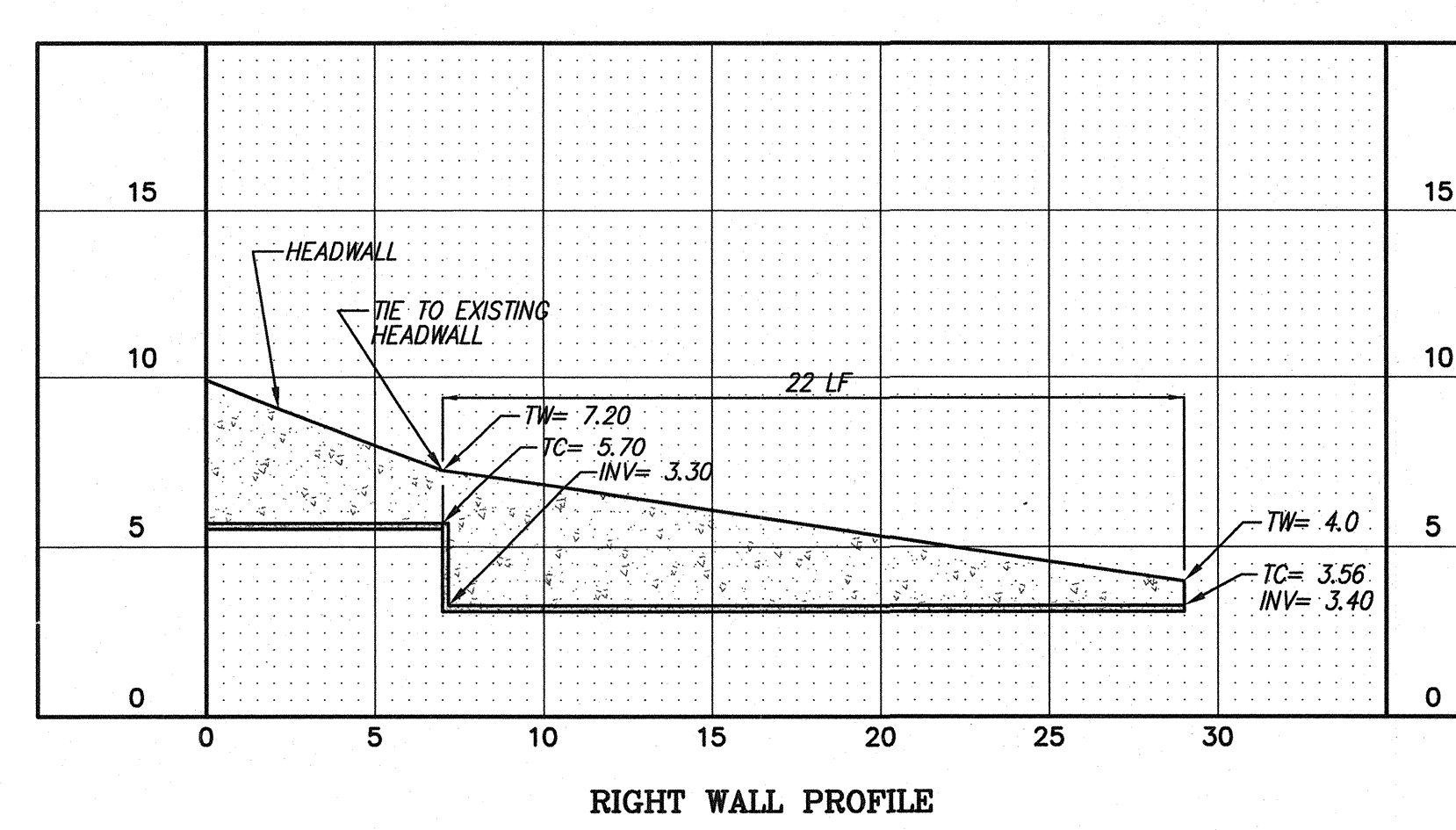
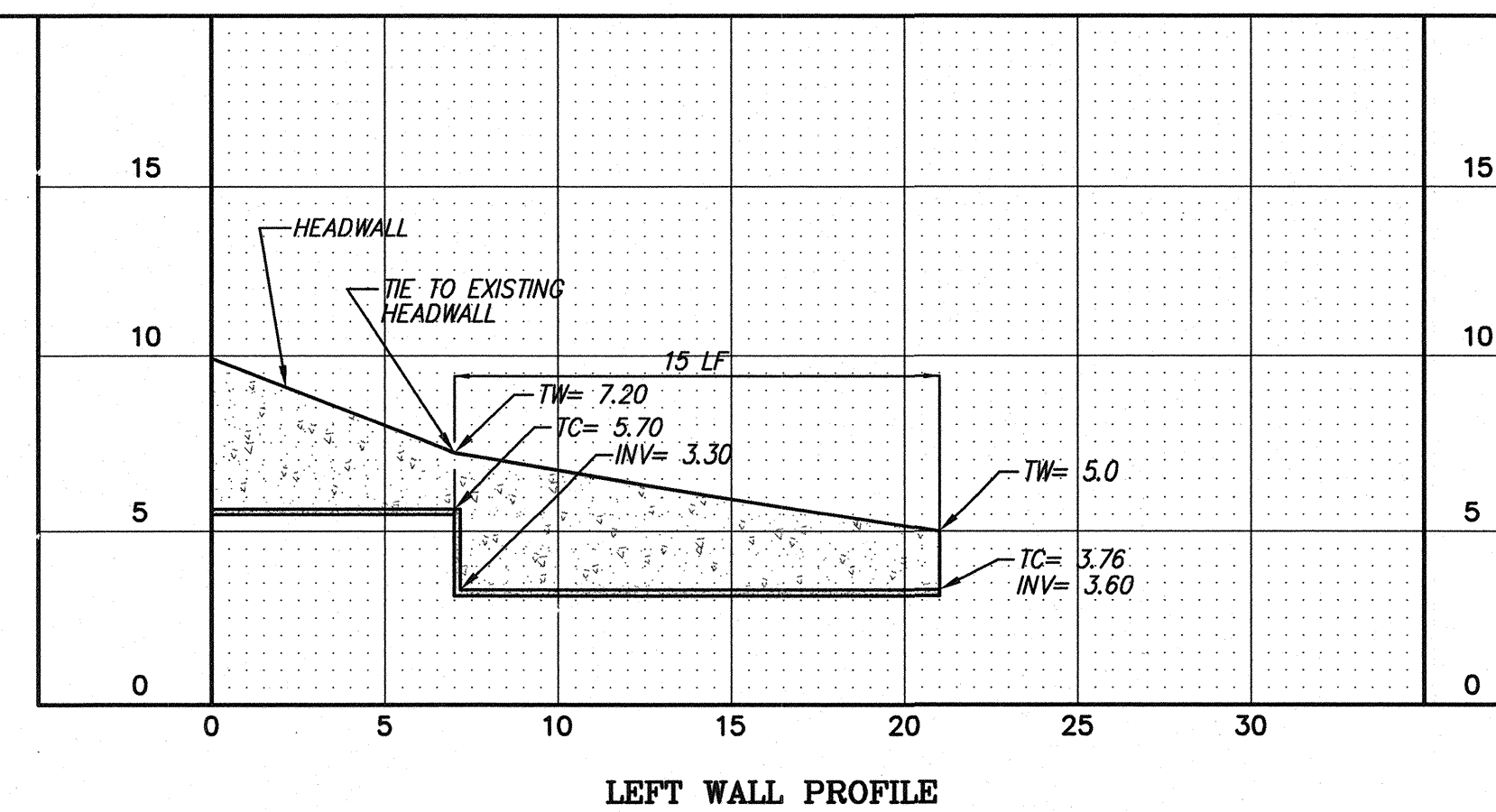
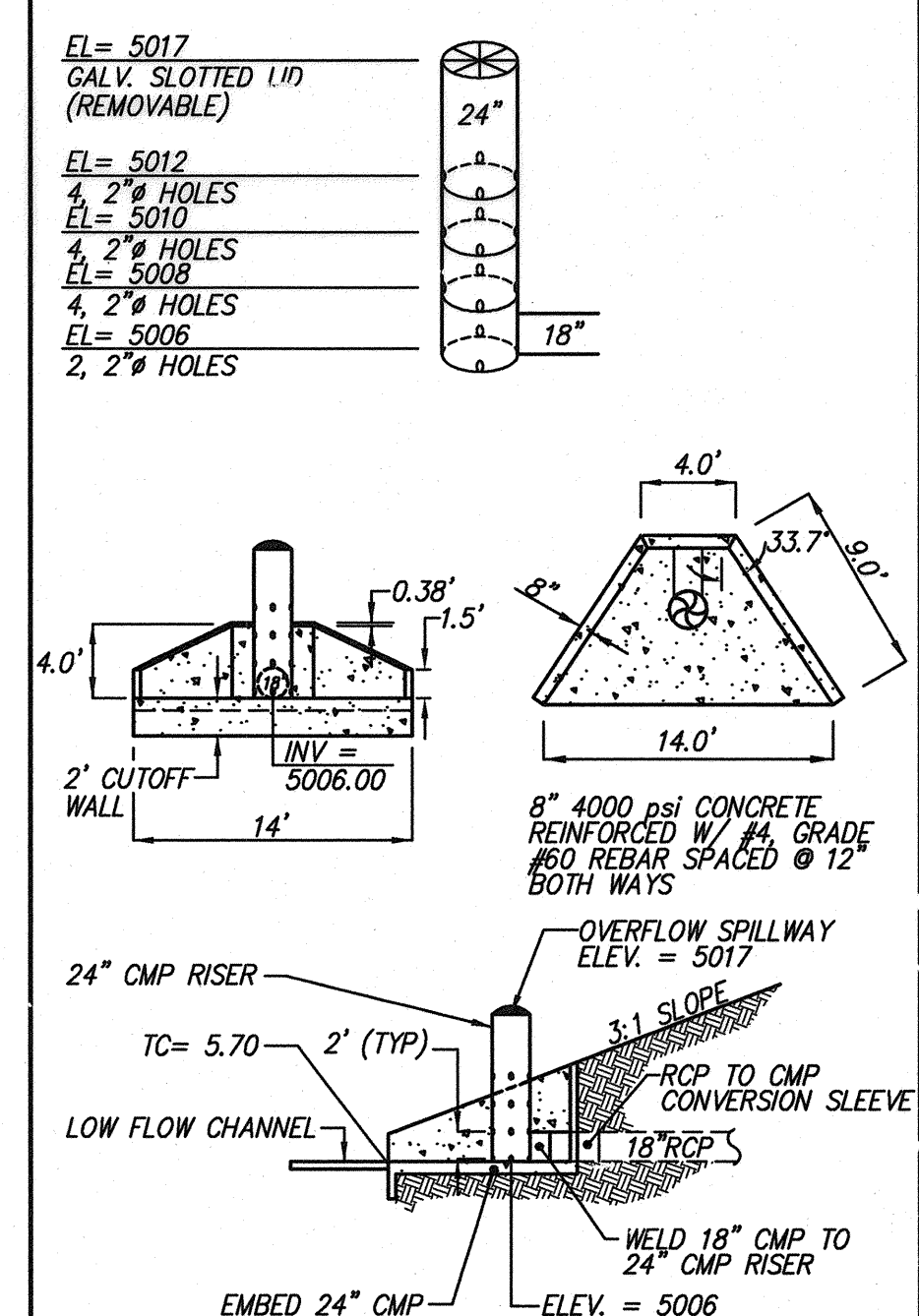
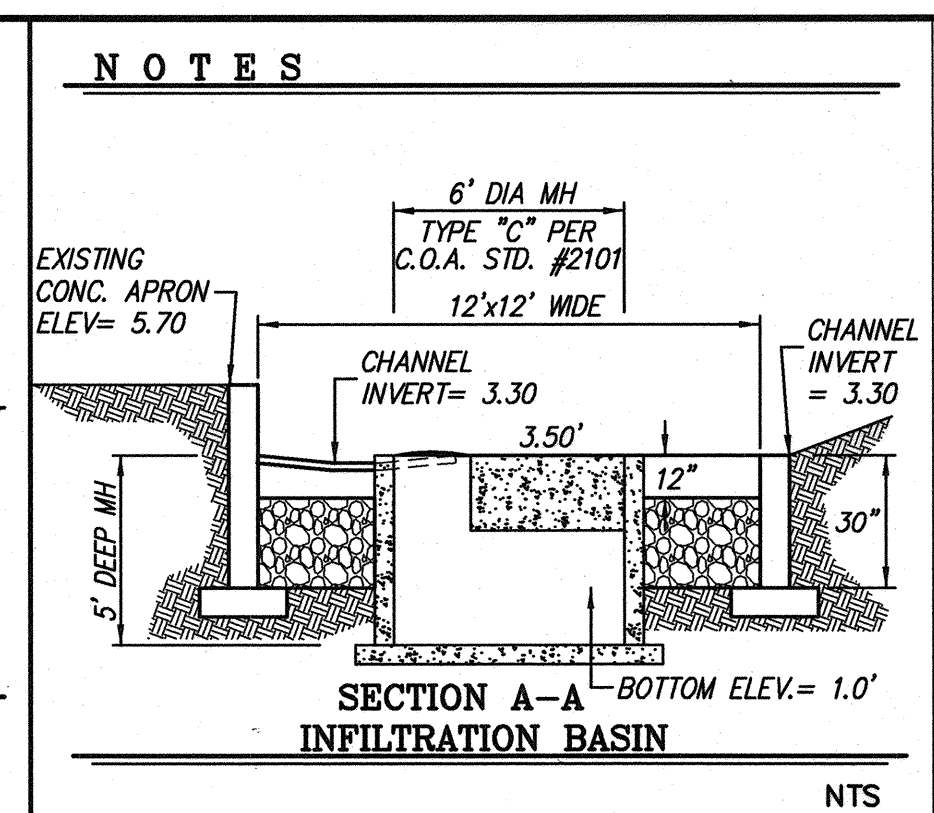
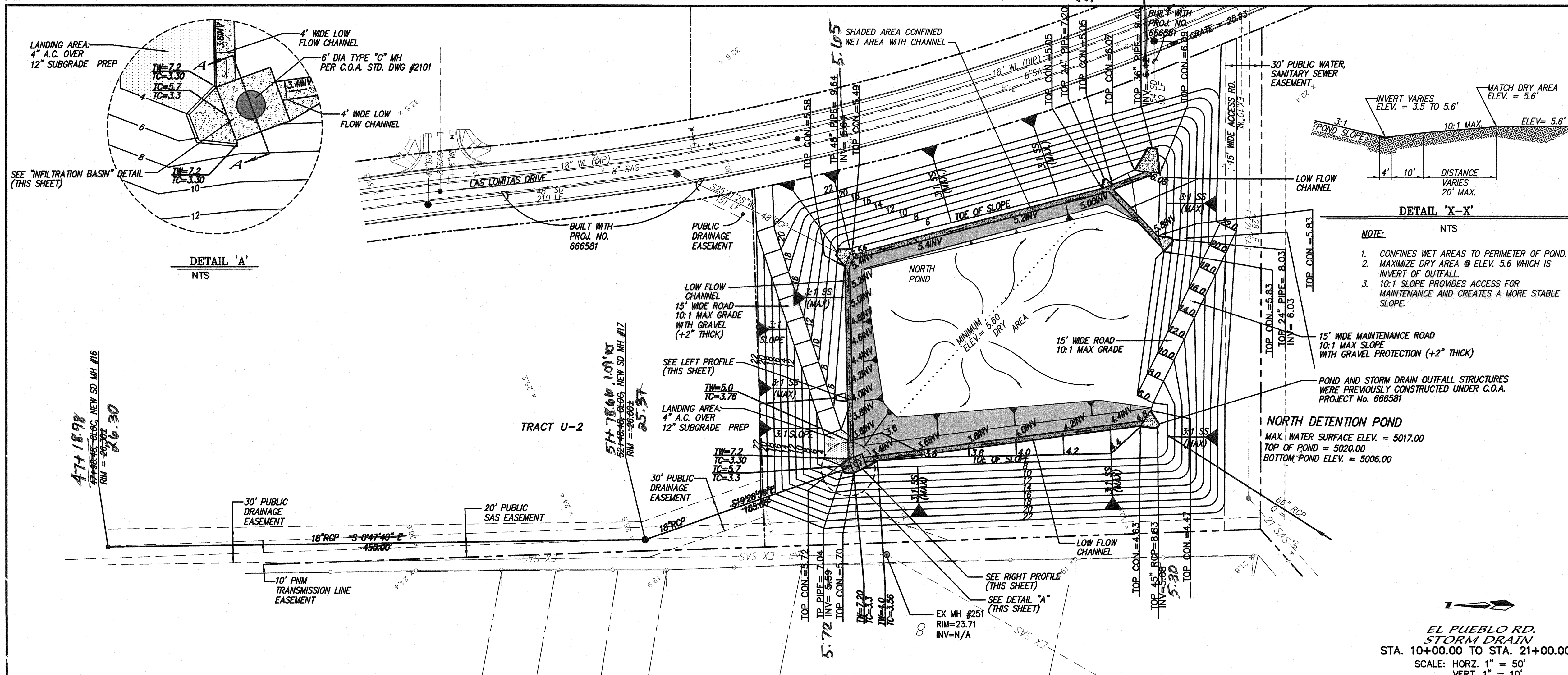
CITY ENGINEER APPROVAL
APPROVED
MAR - 2 2006
CITY ENGINEER

CITY PROJECT NO. **693581** ZONE MAP NO. **C/D-16** SHEET **10** OF **11**



AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION	
CONTRACTOR	DATE	NO.	BY	NO.	BY
WORK	DATE				
INSPECTOR'S	DATE				
ACCEPTANCE BY	DATE				
VERIFICATION BY	DATE				
DRAWINGS	DATE				
CONSTRUCTION BY	DATE				
MICRO-FILM INFORMATION	DATE				
RECORDED BY	DATE				
NO.					

REVISIONS	DATE	BY
DESIGN	01/01	DLH
REVISIONS	01/01	MJR
DESIGN	01/01	DMG



**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT**

TITLE: **EL PUEBLO STORM DRAIN
STORM DRAIN and POND IMPROVEMENTS**

DESIGN REVIEW COMMITTEE: CITY ENGINEER APPROVAL

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

DESIGNED BY: **DLH** DATE: **01/01**
 DRAWN BY: **MJK** DATE: **01/01**
 CHECKED BY: **DMG** DATE: **01/01**

NOTES

1. CONFINES WET AREAS TO PERIMETER OF POND.
 2. MAXIMIZE DRY AREA @ ELEV. 5.6 WHICH IS INVERT OF OUTFALL.
 3. 10:1 SLOPE PROVIDES ACCESS FOR MAINTENANCE AND CREATES A MORE STABLE SLOPE.

DETAIL 'X-X'

NOTE: NTS

1. CONFINES WET AREAS TO PERIMETER OF POND.
 2. MAXIMIZE DRY AREA @ ELEV. 5.6 WHICH IS INVERT OF OUTFALL.
 3. 10:1 SLOPE PROVIDES ACCESS FOR MAINTENANCE AND CREATES A MORE STABLE SLOPE.

SECTION A-A - BOTTOM ELEV. = 1.0' INFILTRATION BASIN

NTS

EL = 5017
 GALV. SLOTTED LID (REMOVABLE)
 EL = 5012
 4, 2" HOLES
 EL = 5010
 4, 2" HOLES
 EL = 5008
 4, 2" HOLES
 EL = 5006
 2, 2" HOLES

OUTFALL HEADWALL DETAIL

NTS

LOW FLOW CHANNEL DETAIL

NTS

LEGEND

CONCRETE

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**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT**

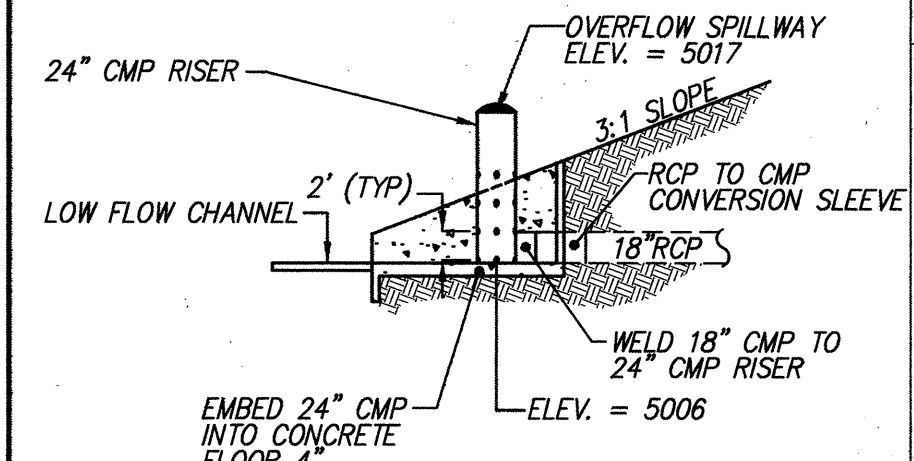
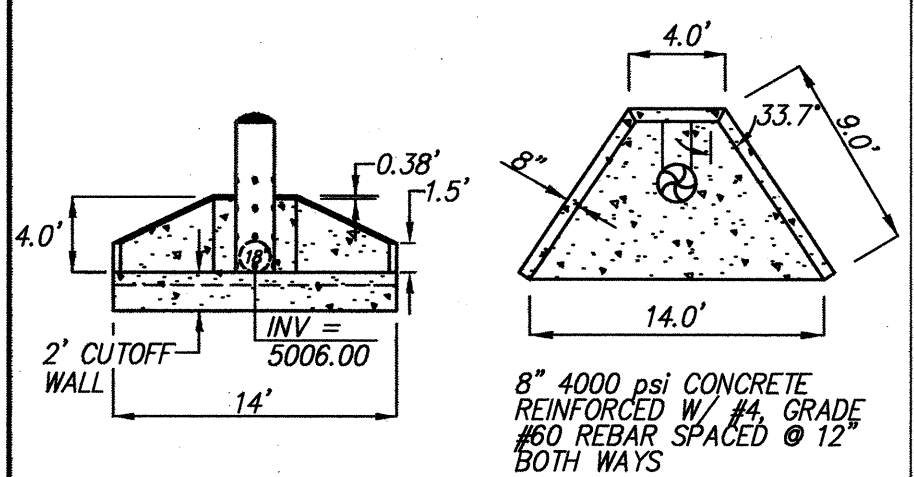
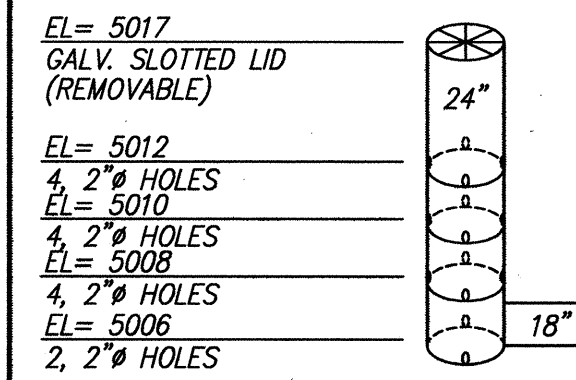
TITLE: **EL PUEBLO STORM DRAIN
STORM DRAIN and POND IMPROVEMENTS**

DESIGN REVIEW COMMITTEE: CITY ENGINEER APPROVAL

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

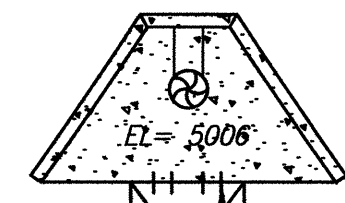
DESIGNED BY: **DLH** DATE: **01/01**
 DRAWN BY: **MJK** DATE: **01/01**
 CHECKED BY: **DMG** DATE: **01/01**

CITY PROJECT NO. **693581** ZONE MAP NO. **C/D-16** SHEET **11R 11**

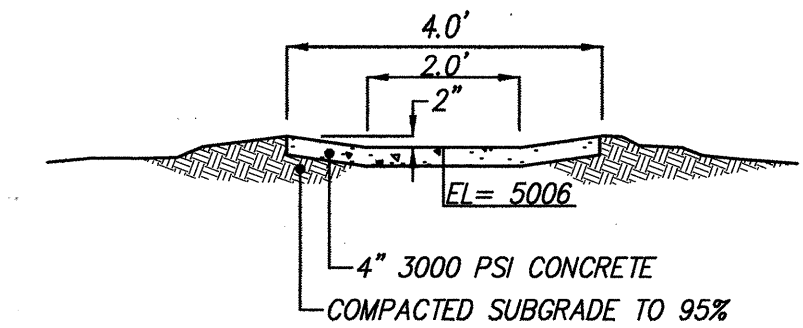


OUTFALL HEADWALL DETAIL

NTS



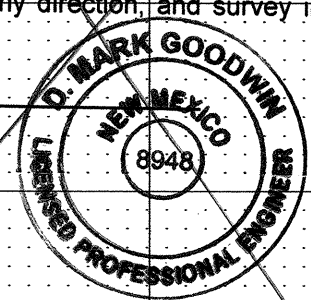
TIE CHANNEL TO HEADWALL APRON
W/ 8" DDWEL BARS SPACED @ 12" D.C.



LOW FLOW CHANNEL DETAIL

NTS

I, Mark Goodwin, NMFE 8948, of the firm Mark Goodwin & Associates, PA, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by Timothy Aldrich, NMPS number 7719.

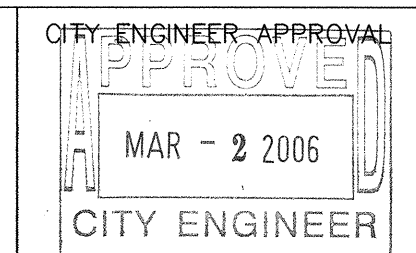
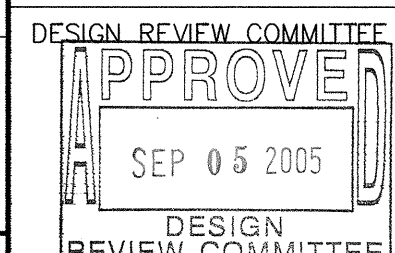


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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: *EL PUEBLO STORM DRAIN
STORM DRAIN IMPROVEMENTS*



CITY PROJECT NO.

ZONE MAP NO.

SHEET OF

A0099EPSD\PP5.dwg\04-27-04\MJR ACH NHE DER

693581

ZONE MAP NO.

SHEET OF