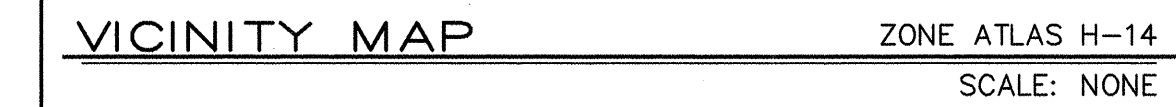


SCANNED BY
MESA REPRO



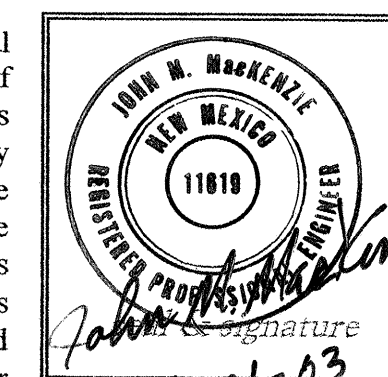
NOTICE TO CONTRACTORS

- THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

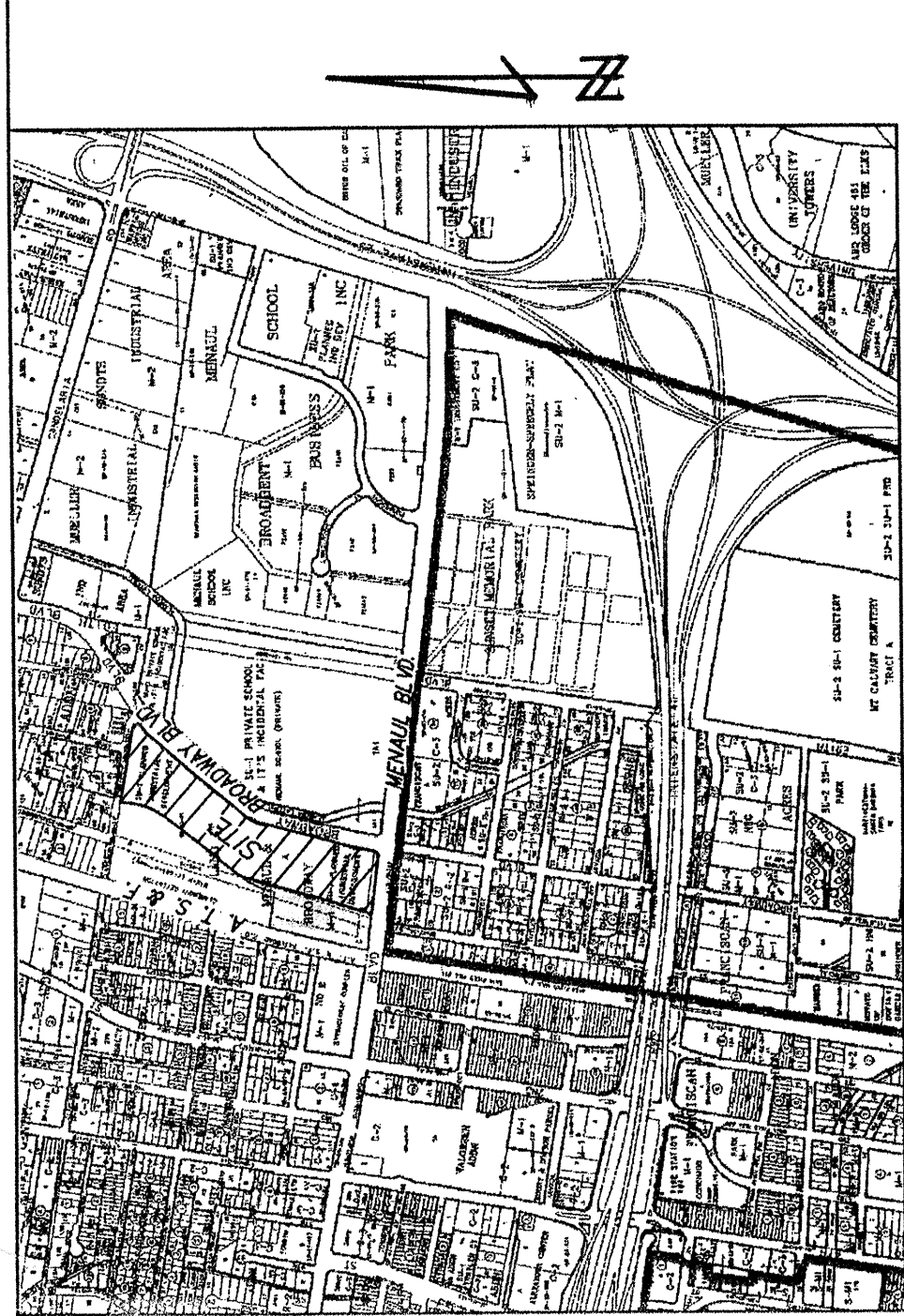
- CAUTION:**
NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. ALL EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE APPROXIMATE LOCATION ONLY. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD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

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER
[Signature]
DATE: 5/14/03

I, John M. MacKenzie, NMPE 11619 of the firm
Mark Goodwin & Associates, PA, a Registered Professional
 Engineer in the State of Nevada, 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 Walker Surveying, NMPS number
6401



1000195



LOCATION MAP ZONE ATLAS H-14-Z, H-15-Z SCALE: NONE

00410-00000-00134(FP)
00410-00000-00137(VE)

SUBDIVISION DATA		Reg. # 1000195	
PLAT CASE NOS.	DRB.	S	V.
GROSS ACREAGE	14.3690 AC		
ZONE ATLAS NO.	H-14-Z, H-15-Z		
NO. OF EXISTING TRACTS/LOTS	1 TRACT		
NO. OF TRACTS/LOTS CREATED	13 TRACTS		
NO. OF TRACTS/LOTS ELIMINATED	1 TRACT		
MILES OF FULL WIDTH STREETS CREATED	0		
AREA DEDICATED TO CITY OF ALBUQUERQUE	0.1713 AC		
DATE OF SURVEY	JUNE 98		
UTILITY CONTROL LOCATION SYSTEM LOG NUMBER	98062310330243		

FREE CONSENT AND DEDICATION

The subdivision herein 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 to the public the right-of-way shown hereon to the use of the public for the purpose of the construction, operation, and maintenance of the 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.

OWNER:
NEW MEXICO ARIZONA LAND CO.
BY: J.D. SPHAR, VICE PRESIDENT,

J.D. SPHAR, VICE PRESIDENT
NEW MEXICO ARIZONA LAND CO.

OWNER'S ACKNOWLEDGMENT

STATE OF NEW MEXICO
COUNTY OF BERNALILLO
This instrument was acknowledged before me on January 19, 2000
by J. D. SPHAR, Vice President, New Mexico Arizona Land Co.
A New Mexico company

NOTARY PUBLIC
J. D. SPHAR, VICE PRESIDENT
NEW MEXICO ARIZONA LAND CO.

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.

DATE 01-24-00
TIMOTHY ALDRICH, P.S. No. 7719

LEGAL DESCRIPTION

A tract of land situate within the Town of Albuquerque Grant, projected Sections 8 and 9, Township 10 North, Range 3 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico being all of TRACT A, LAND AT MENAUL & BROADWAY 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 June 3, 1993 in Volume 93C, Folio 157 and being more particularly described as follows:

BEGINNING at the northwest corner of the herein described tract, said point being common with the northeast corner of TRACT B, LAND AT MENAUL & BROADWAY, the office of the County Clerk of Bernalillo County, New Mexico on June 3, 1993 in Volume 93C, Folio 157 and further being on the south right-of-way line of Claremont Avenue N.E. from whence the Albuquerque Control Survey Monument "6-G15" bears N 03°25'55" W, 1386.56 feet;

THENCE along said south right-of-way line S 80°48'05" E, 445.26 feet to a point of curvature;

THENCE continuing 48.26 feet along a curve to the right, whose radius is 9500 feet, through a central angle of 23°06'32", and whose chord bears S 66°4'52" E, 47.75 feet to a point of compound curvature;

THENCE leaving said south right-of-way line 46.27 feet along a curve to the right, whose radius is 25.00 feet through a central angle of 106°02'42", and whose chord bears S 01°19'34" W, 39.94 feet to a point of reverse curvature, said point being on the westerly right-of-way line of Broadway Boulevard Extension N.E.;

THENCE along said westerly right-of-way line 109.52 feet along a curve to the left, whose radius is 452.26 feet through a central angle of 13°52'28", and whose chord bears S 47°24'28" W, 109.25 feet to a point of tangency;

THENCE continuing S 40°28'15" W, 695.57 feet to a point of curvature;

THENCE continuing 209.00 feet along a curve to the left, whose radius is 452.26 feet through a central angle of 26°28'40", and whose chord bears S 27°13'55" W, 207.15 feet to a point of tangency;

THENCE continuing S 13°59'35" W, 295.82 feet to a point;

THENCE continuing S 17°02'22" W, 180.28 feet to a point;

THENCE continuing S 13°59'35" W, 112.77 feet to a point of curvature;

THENCE continuing 38.95 feet along a curve to the left, whose radius is 462.26 feet through a central angle of 04°49'41", and whose chord bears S 11°34'44" W, 38.94 feet to a point of tangency;

THENCE continuing S 09°09'55" W, 46.48 feet to a point of curvature;

THENCE leaving said westerly right-of-way line 61.22 feet along a curve to the right, whose radius is 40.00 feet through a central angle of 87°41'26", and whose chord bears S 53°00'38" W, 55.42 feet to a point of tangency, and solid point being on the north right-of-way line of Menaul Boulevard N.E.;

THENCE along said north right-of-way line N 83°08'39" W, 360.61 feet to the southeast corner, said point being common with the southeast corner of TRACT C, LAND AT MENAUL & BROADWAY, 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 June 3, 1993 in Volume 93C, Folio 157;

THENCE leaving said north right-of-way line N 17°01'51" E, 816.01 feet along a line common with the easterly line of said TRACT C to a point, said point being on the easterly line of said TRACT B;

THENCE N 37°39'59" E, 633.01 feet along a line common with the easterly line of said TRACT B to a point of curvature;

THENCE continuing 173.90 feet along a curve to the left, whose radius is 350.00 feet through a central angle of 28°28'04", and whose chord bears N 23°25'57" E, 172.12 feet to a point of tangency;

THENCE continuing N 09°11'55" E, 123.00 feet to the point of beginning and containing 14.3690 acres more or less.

SCANNED BY
MESA REPRO

(SEE SHEET 2)

LEGAL DESCRIPTION

(SEE SHEET 2)

NOTES

PURPOSE OF PLAT

SUBDIVIDE ONE TRACT INTO 13 SEPARATE TRACTS
GRANT NEW EASEMENTS AS SHOWN
DEDICATE ADDITIONAL RIGHT-OF-WAY AS SHOWN
VACATE EXISTING PUBLIC EASEMENTS

PLAT FOR

GATEWAY INDUSTRIAL PARK

WITHIN THE
TOWN OF ALBUQUERQUE GRANT
PROJECTED SECTION 8 AND 9
TOWNSHIP 10 NORTH, RANGE 3 EAST, NMPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JANUARY, 2000

APPROVED AND ACCEPTED BY:

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

Subdivision Case No. Plat # 1000195 / 00410-00000-00524

Planning Director, City of Albuquerque, N.M. 6/30/00 Date

City Engineer, City of Albuquerque, N.M. 6-21-00 Date

Albuquerque Metropolitan Arroyo Flood Control Authority 6-21-00 Date

Transportation Development, City of Albuquerque, N.M. 6-21-00 Date

Utility Development Division, City of Albuquerque, N.M. 6-21-00 Date

Parks and Recreation 6-21-00 Date

City Surveyor, City of Albuquerque, N.M. 1-27-00 Date

Property Management, City of Albuquerque, N.M. 6-9-00 Date

PRM GAS 06-01-20 Date

U.S. West Telecommunications 6-9-00 Date

PRM ELECTRIC 6/9/00 Date

Jones Interchange, Inc. 6/9/00 Date

dwg: PLAT/CR Drawn: SPS Checked: ALS Sheet 1 of 4
Scale: 1"=100' Date: 12-14-99 Job: 99072

PLAT FOR

GATEWAY INDUSTRIAL PARK

WITHIN THE

TOWN OF ALBUQUERQUE GRANT

PROJECTED SECTIONS 8 AND 9

TOWNSHIP 10 NORTH, RANGE 3 EAST, NMPM

CITY OF ALBUQUERQUE

BERNALILLO COUNTY, NEW MEXICO

JANUARY, 2000



PUBLIC UTILITY EASEMENTS

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

1. The PNM Electric Services Division for the installation, maintenance and service of overhead and underground electrical lines, communication lines, transformers, poles and any other equipment, fixtures structures and related facilities reasonably necessary to provide electrical services.
2. The PNM Gas Services Division for installation, maintenance and services of natural gas lines, valves and other equipment and facilities reasonably necessary to provide natural gas.
3. U.S. West for installation, maintenance and service of all buried and aerial communication lines and other related equipment and facilities reasonably necessary to provide communication services, including but not limited to above ground pedestals and closures.
4. Jones Interchange for installation, maintenance and service of such lines, cable and other related equipment and facilities reasonably necessary to provide Cable TV service.

Included, is the right to build, rebuild, construct, reconstruct, relocate, upgrade, remove, modify, renew, operate and maintain facilities for the purposes described above, together with 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. Any structure or well shall be constructed in accordance with the provisions of the National Electrical Safety Code caused by construction of pools, decking or any structures adjacent to within or near easements shown on this plat.

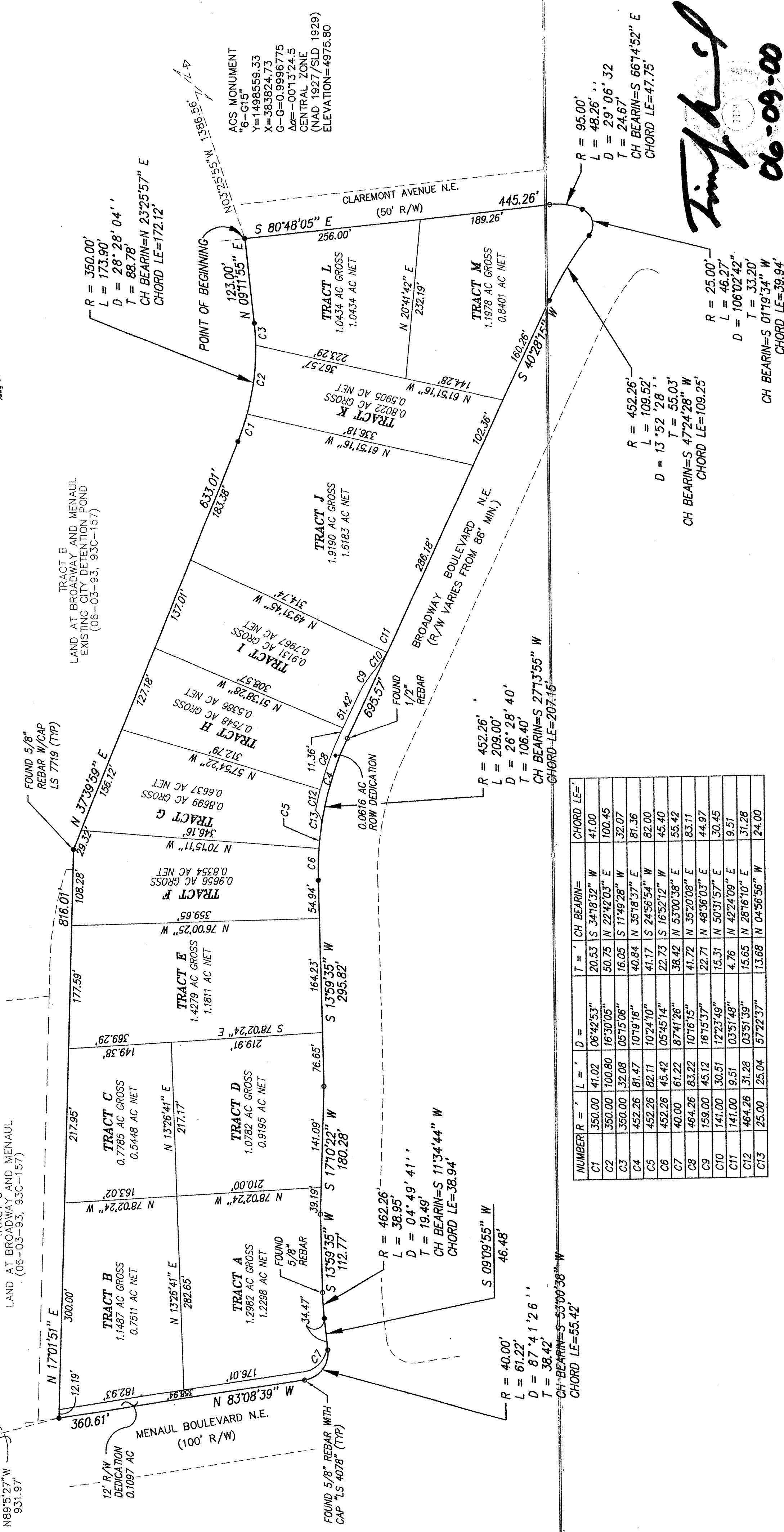
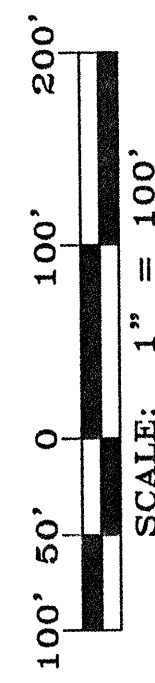
In approving this plat, the utility companies did not conduct a Title Search of the properties shown hereon. Consequently, the utility companies do not waive or release any easement or easement rights which may have been granted by prior plat, replat or other document and which are not shown on this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

Timothy Aldrich

01-27-00

PLAT FOR
GATEWAY INDUSTRIAL PARK
WITHIN THE
TOWN OF ALBUQUERQUE GRANT
PROJECTED SECTIONS 8 AND 9
TOWNSHIP 10 NORTH, RANGE 3 EAST, NMPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JANUARY 2000

SCANNED BY
MESA REPRO

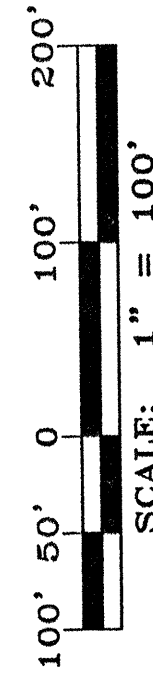
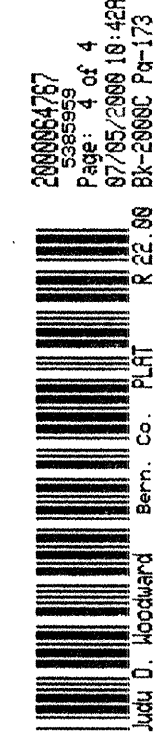


SEE SHEET 4 OF 4 FOR EXISTING
AND PROPOSED EASEMENTS

dwg:	9072PI.AT	Drawn:	SPS	Checked:	ALS	Sheet 3 of 4
Scale:	1"=100'	Date:	01-12-00	Job:	99072	

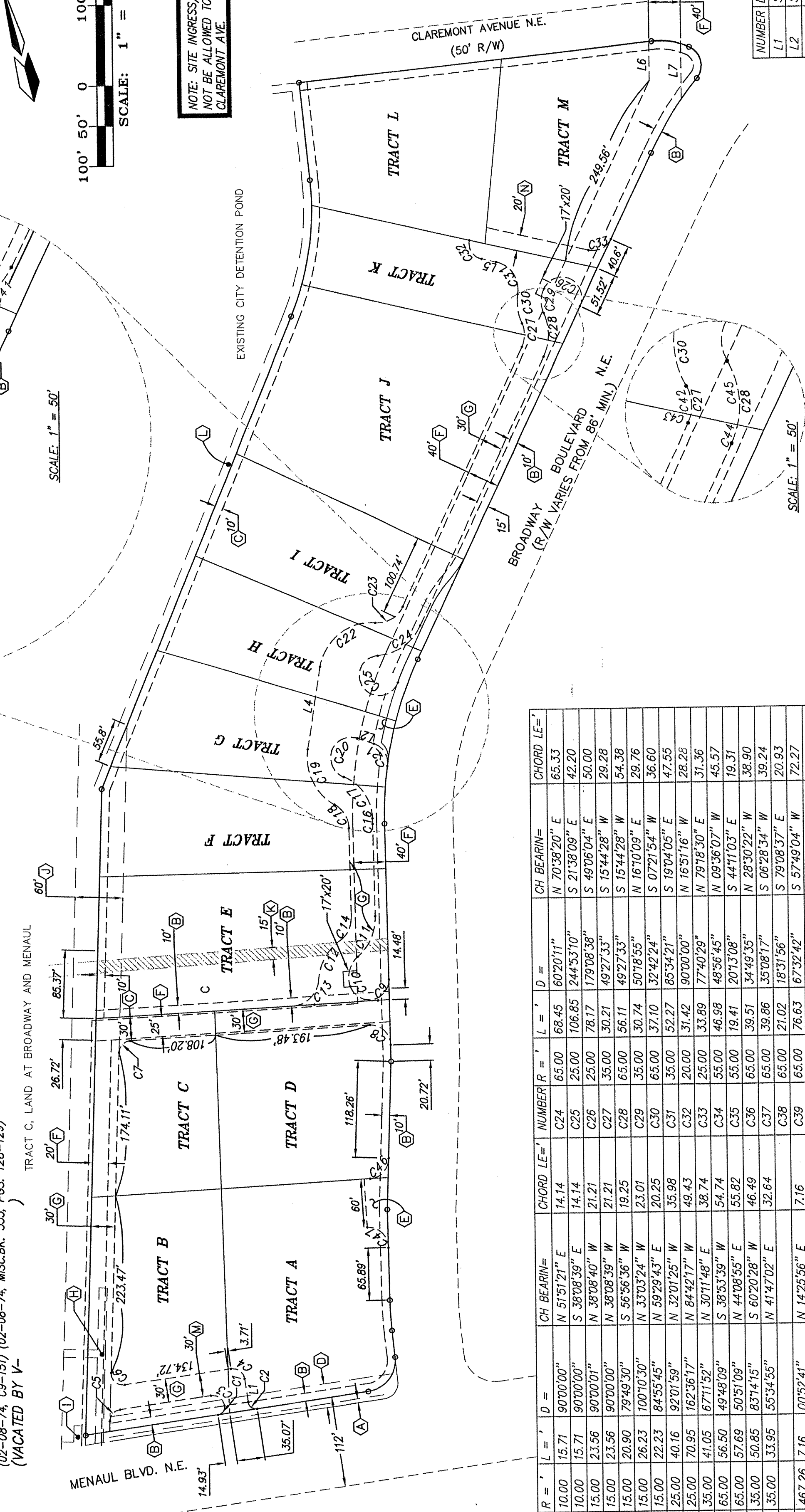
PLAT FOR
GATEWAY INDUSTRIAL PARK
WITHIN THE
TOWN OF ALBUQUERQUE GRANT
PROJECTED SECTIONS 8 AND 9
TOWNSHIP 10 NORTH, RANGE 3 EAST, NMPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JANUARY 2000

EASEMENT SHEET



NOTE: SITE INGRESS/EGRESS SHALL
NOT BE ALLOWED TO/FROM
CLAREMONT AVE.

- KEY NOTES:
- EXIST. 5' PMW EASEMENT (01-02-59, BK. 0457, PG. 373)
 - 10' PLE GRANTED WITH THIS PLAT
 - 10' AND 30' PRIVATE DRAINAGE EASEMENT GRANTED WITH THIS PLAT AND INTENDED TO BENEFIT TRACTS C THROUGH M, INCLUDING TRACT C, TRACT D, TRACT E, TRACT F, TRACT G, TRACT H, TRACT I, TRACT J, TRACT K, TRACT L, TRACT M, AND TRACT N. EACH INDIVIDUAL PROPERTY OWNER SHALL BE RESPONSIBLE FOR MAINTAINING THE PORTION OF THE EASEMENT FRONTING GRantee'S RESPECTIVE TRACT.
 - EXIST. 30' C.O.A. PERMANENT DRAINAGE EASEMENT (08-03-93, 93C-157) (12-20-91, BK. 91-22, PGS. 5069-5073)
 - PRIVATE ACCESS EASEMENT GRANTED WITH THIS PLAT AND INTENDED TO BENEFIT TRACTS A THROUGH M, INCLUDING TRACT C, TRACT D, TRACT E, TRACT F, TRACT G, TRACT H, TRACT I, TRACT J, TRACT K, TRACT L, TRACT M, AND TRACT N. EACH INDIVIDUAL PROPERTY OWNER SHALL BE RESPONSIBLE FOR MAINTAINING THE PORTION OF THE EASEMENT FRONTING GRantee'S RESPECTIVE TRACT.
 - PUBLIC WATERLINE AND SANITARY SEWER EASEMENT GRANTED TO THE CITY OF ALBUQUERQUE WITH THIS PLAT.
 - 30' PRIVATE ACCESS EASEMENT GRANTED WITH THIS PLAT. SAME MAINTENANCE AND BENEFICIARY PROVISIONS AS IN NOTE E APPLY (02-08-74, C9-151) (02-08-74, MSC.BK. 353, PGS. 128-129) (VACATED BY V-)
 - EXISTING 10' WATER LINE EASEMENT (02-08-74, C9-151) (02-08-74, MSC.BK. 353, PGS. 128-129)
 - EXISTING 60' C.O.A. PUBLIC AND PRIVATE UTILITY EASEMENT RESERVED FOR PUBLIC AND PRIVATE UTILITIES WHETHER MUNICIPAL OR PRIVATELY OWNED, WHICH MAY BE NECESSARY FOR PUBLIC USE AND BENEFIT AT THE PRESENT TIME OR IN THE FUTURE. (08-22-73, BK. MSC. 326, PG. 623)
 - EXISTING FEEDER DITCH RIGHT-OF-WAY (03-28-35, BK.131 - PG.465)
 - (VACATED BY VE-00410-00000-00137)
 - EXISTING 10' PLE AND PRIVATE WATER AND SEWER (08-03-93, 93C-157)
 - 30' PUBLIC AND PRIVATE UTILITY, EASEMENT GRANTED TO TRACT "A" AND TRACT "B" BY THIS PLAT.
 - 20' PUBLIC AND PRIVATE UTILITY, EASEMENT GRANTED TO TRACT "L" AND TRACT "M" BY THIS PLAT.
 - NOTE: A RECIPROCAL CROSS-ACCESS EASEMENT SHALL BE GRANTED TO LOTS A THROUGH M, BY THIS PLAT.



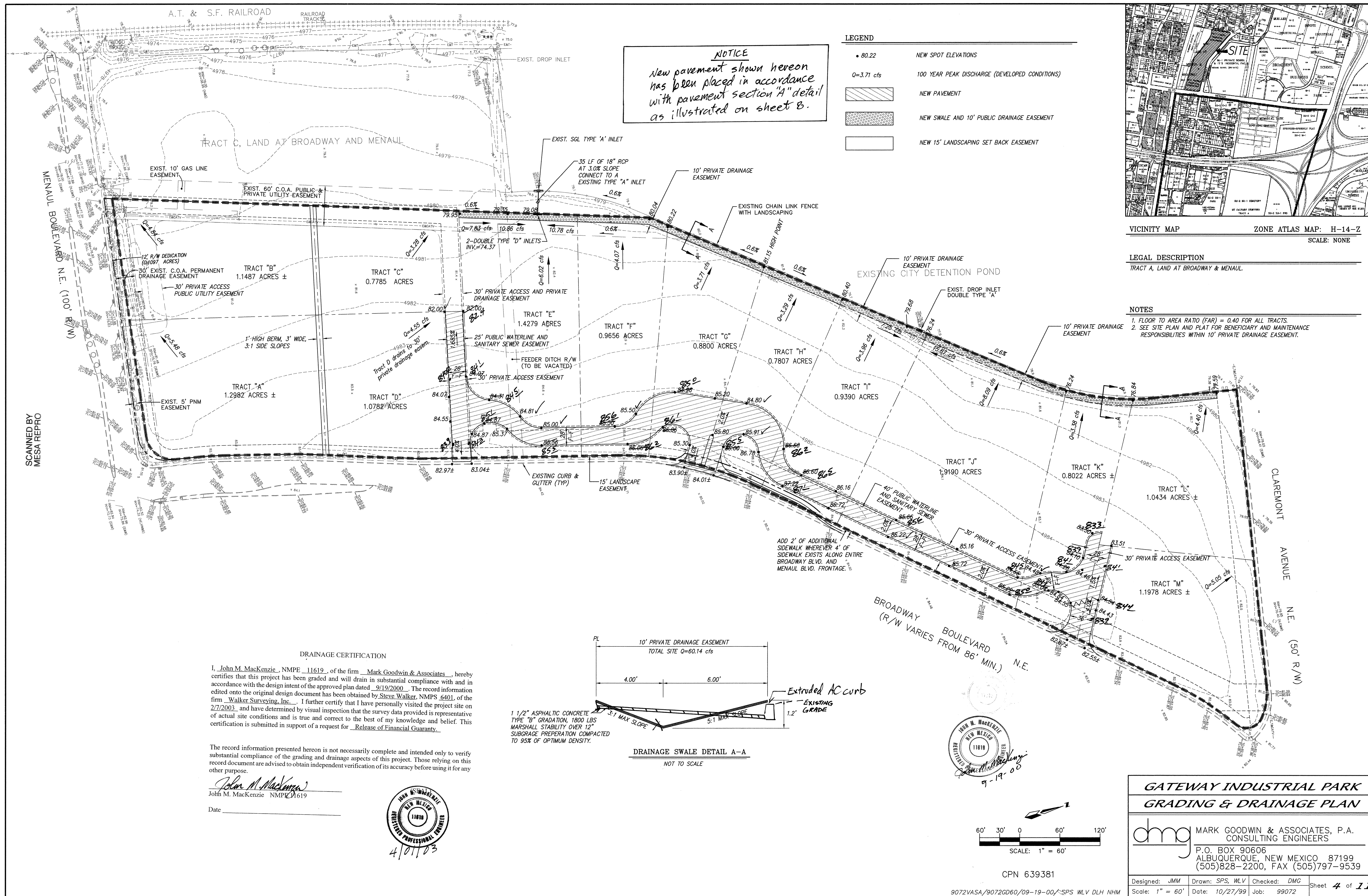
NUMBER	DIRECTION	DISTANCE
L1	S 06°51'21" W	30.00'
L2	S 56°12'49" E	22.02'
L4	S 33°47'11" W	108.83'
L5	N 61°51'16" W	28.65'
L6	N 14°59'60" E	47.97'
L7	N 14°59'60" W	71.99'
L8	N 24°02'43" E	37.56'
L9	S 24°02'43" W	66.19'

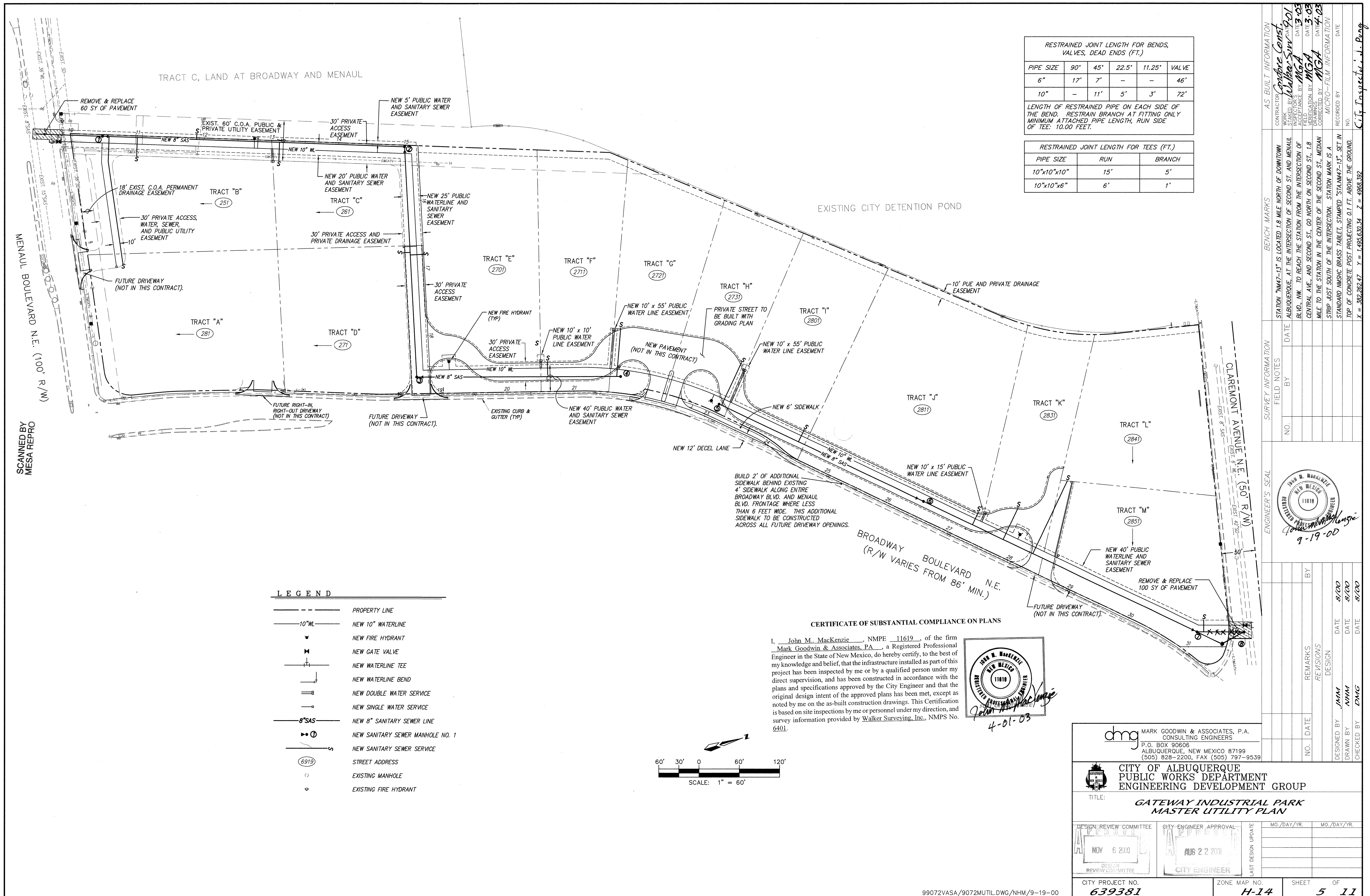
SEE SHEET 3 OF 4 FOR PLAT
GEOMETRY

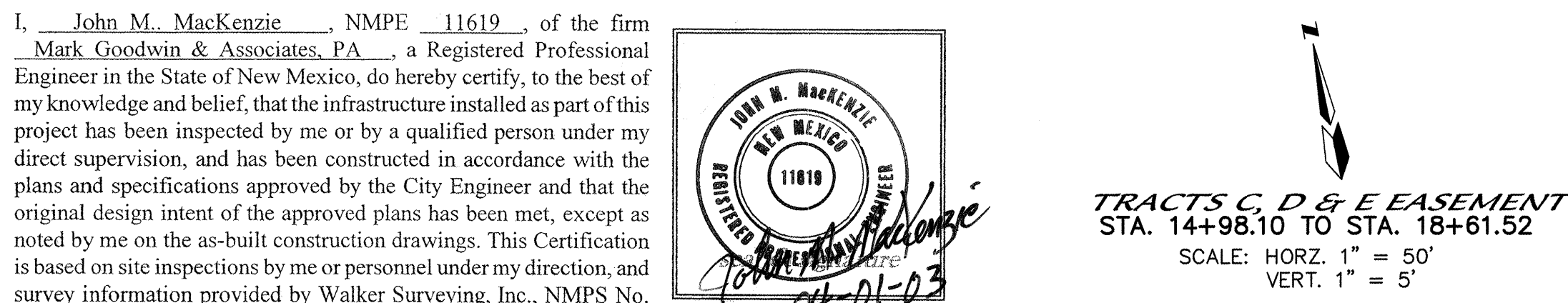
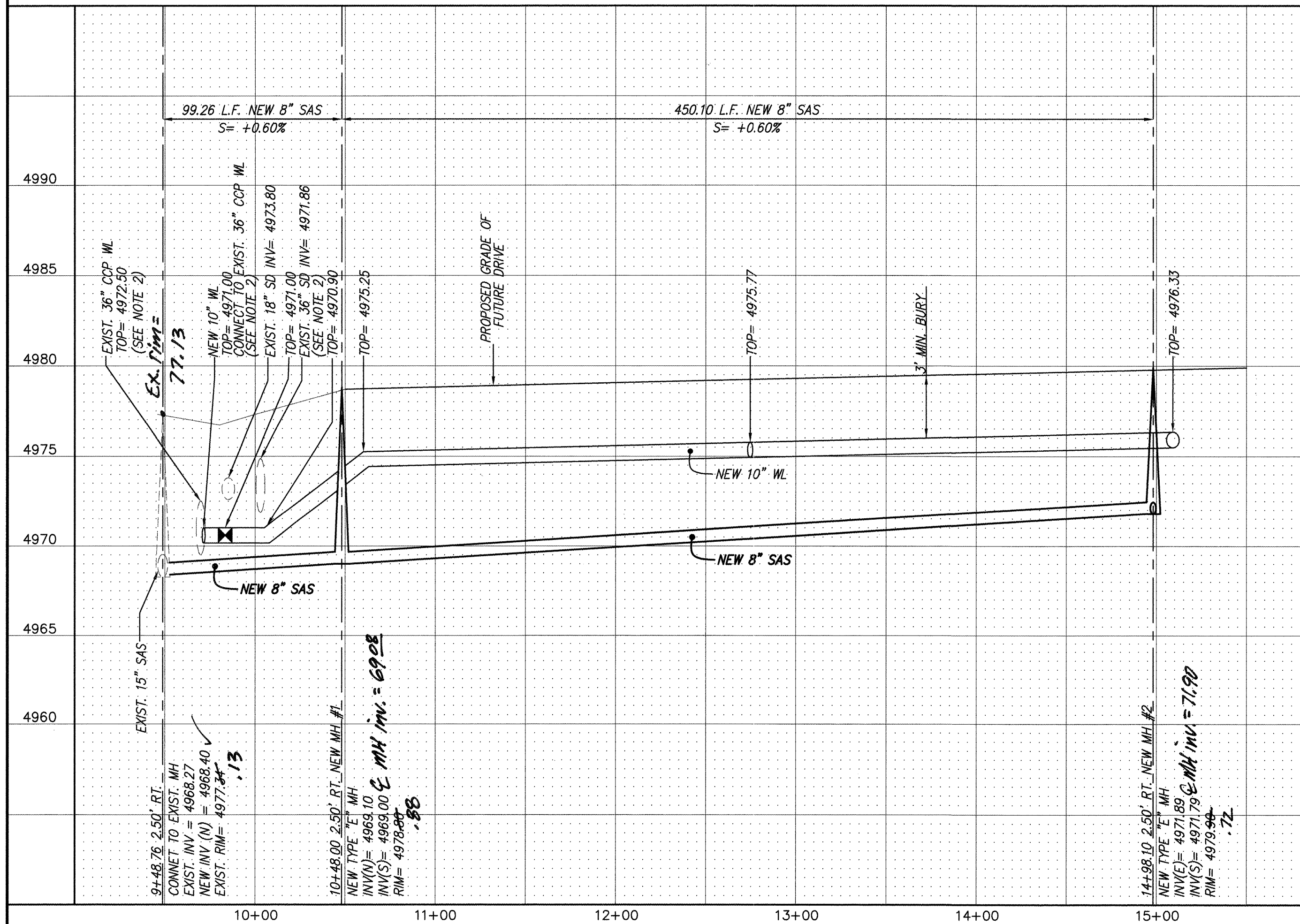
NUMBER	R =	L =	D =	CH BEARIN=	CHORD LE=
C1	10.00	15.71	90°00'00"	N 51°51'21" E	14.14
C2	10.00	15.71	90°00'00"	S 38°08'39" E	14.14
C3	15.00	21.56	90°00'00"	N 38°08'39" W	21.21
C4	15.00	21.56	90°00'00"	S 56°56'36" W	21.21
C5	15.00	20.90	79°49'50"	N 33°03'24" W	19.25
C6	15.00	20.90	79°49'50"	S 56°56'36" W	19.25
C7	15.00	22.23	84°53'45"	N 32°29'43" E	20.25
C8	25.00	40.16	92°01'59"	N 32°29'43" E	35.98
C9	25.00	40.16	92°01'59"	N 32°29'43" E	35.98
C10	35.00	41.05	67°11'52"	N 30°14'48" E	36.74
C11	65.00	57.69	50°51'09"	N 39°53'39" W	54.74
C12	65.00	57.69	50°51'09"	N 39°53'39" W	54.74
C13	35.00	50.85	83°14'15"	N 44°08'55" E	46.49
C14	35.00	50.85	83°14'15"	N 44°08'55" E	46.49
C16	46.72	71.16	00°52'41"	N 14°56'56" E	7.16
C17	55.00	66.39	69°09'54"	N 19°42'41" W	62.44
C18	55.00	66.39	69°09'54"	S 65°17'47" E	34.95
C19	65.00	70.37	69°57'53"	N 05°16'14" W	74.53
C20	25.00	78.54	180°00'00"	N 35°42'31" E	50.00
C21	25.00	34.56	70°12'28"	S 16°16'55" E	31.87
C22	65.00	97.65	86°14'58"	N 67°05'02" E	88.72
C23	35.00	42.55	69°30'06"	N 25°17'48" E	39.98

dwg:	9072PLAT2	Drawn:	SPS	Checked:	ALS	Sheet	4 of 4
Scale:	1"=100'	Date:	02-29-00	Job:	99072		

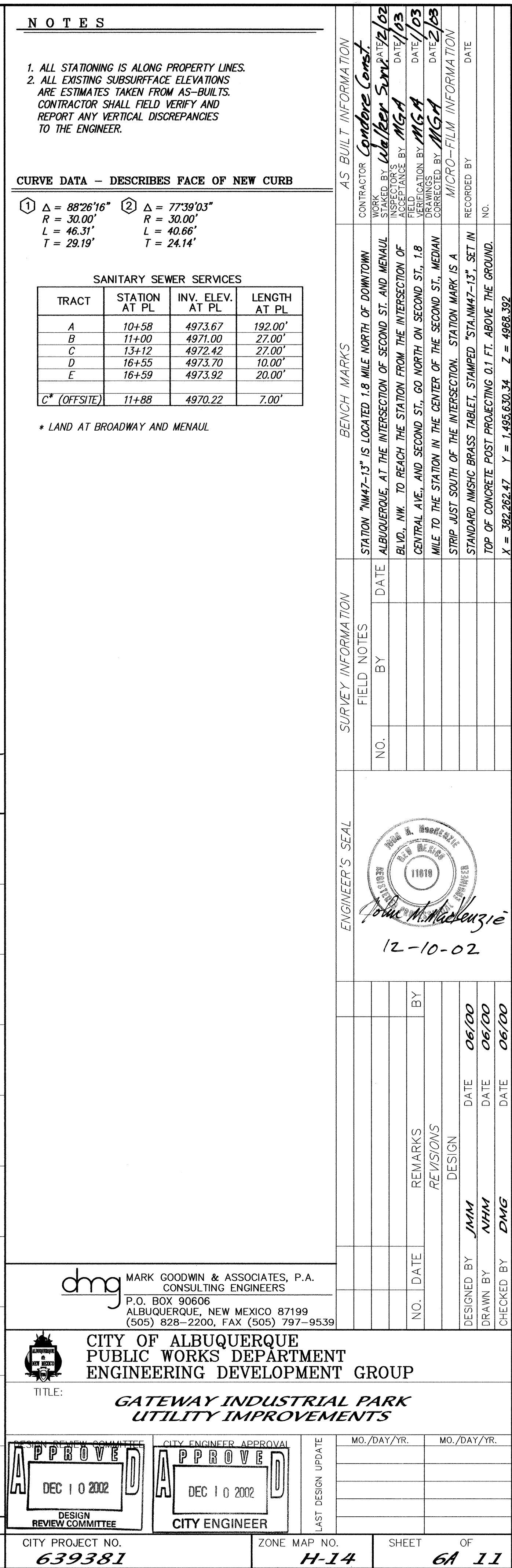
3 of 11

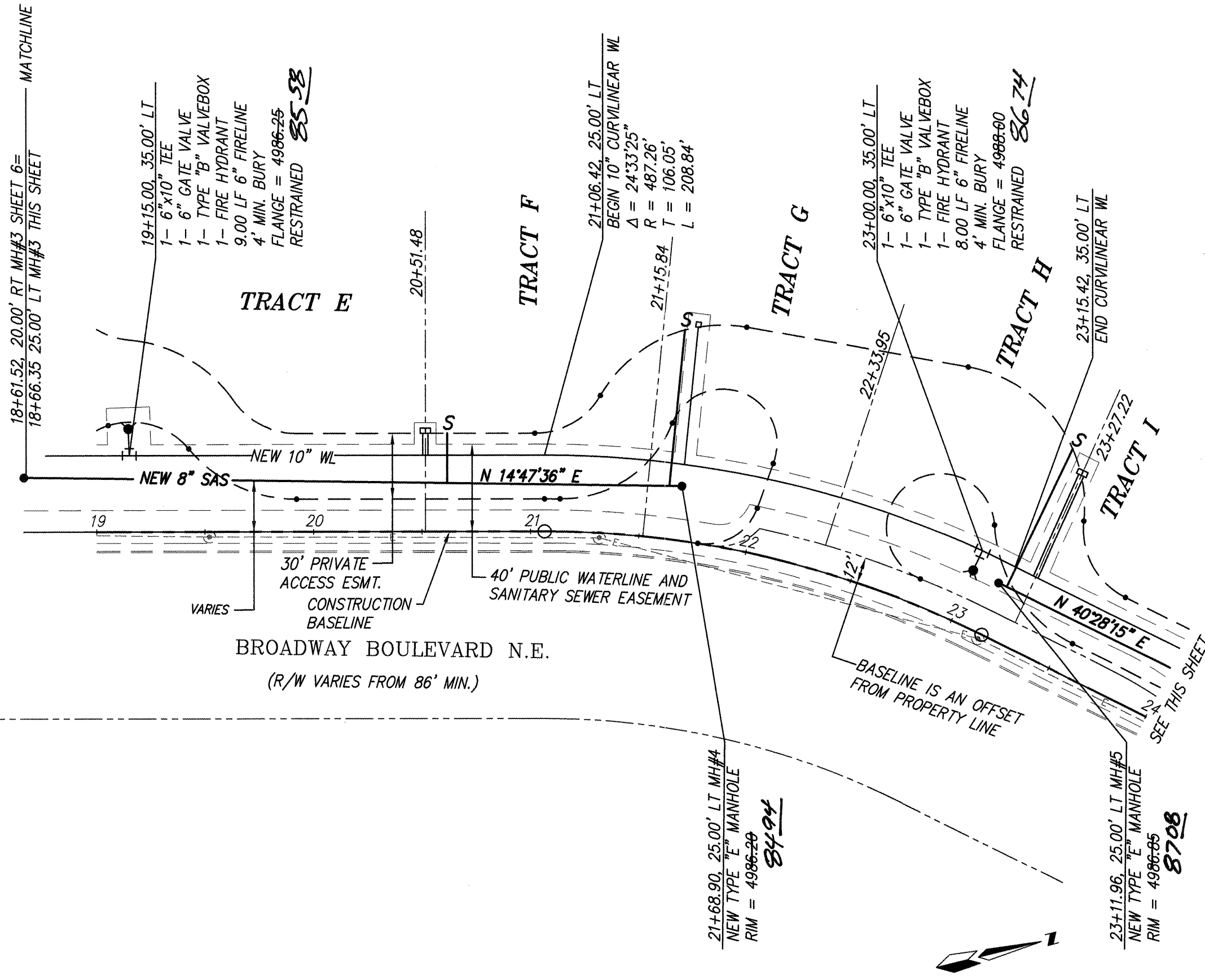




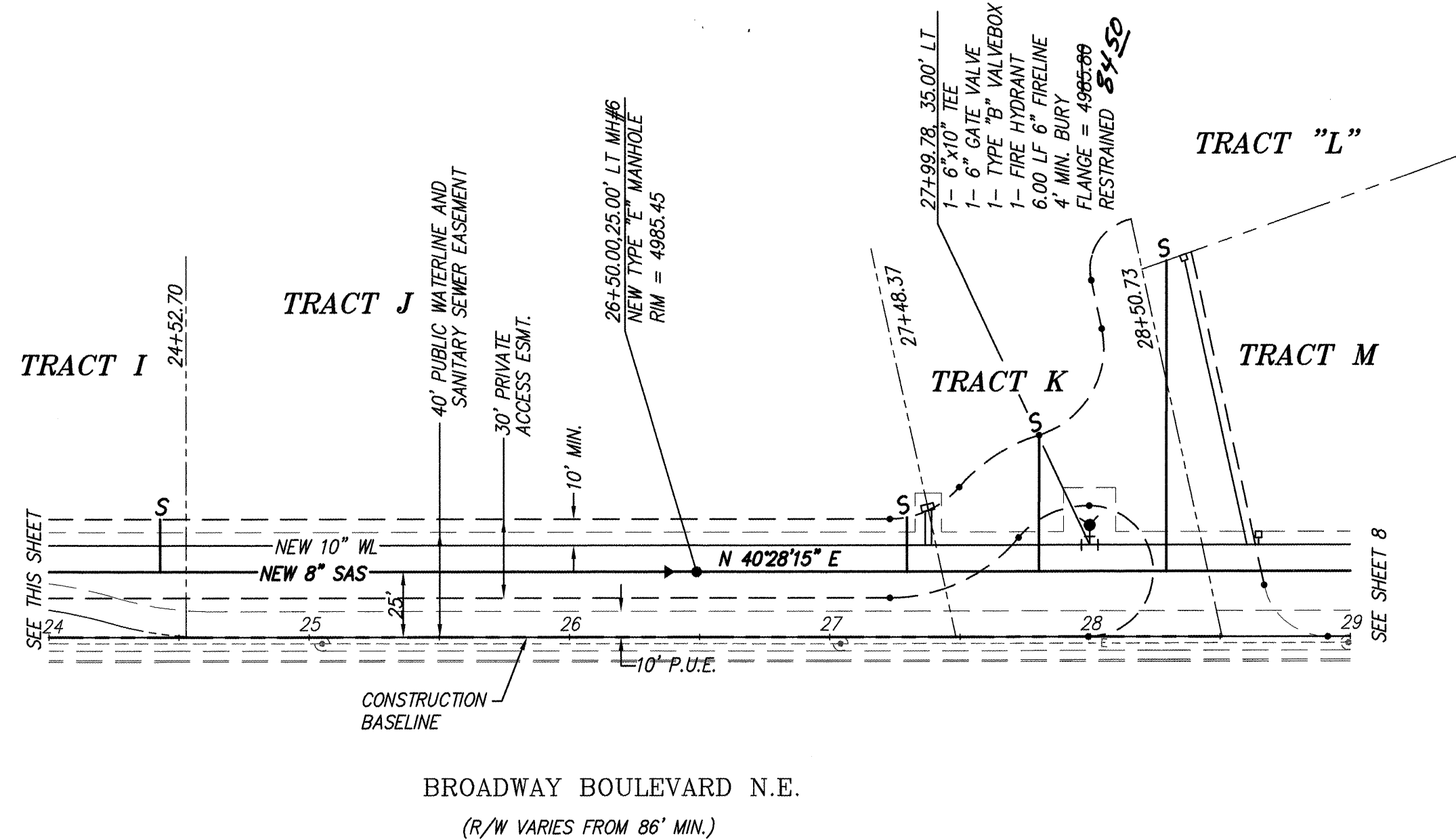


* LAND AT BROADWAY AND MENAUL



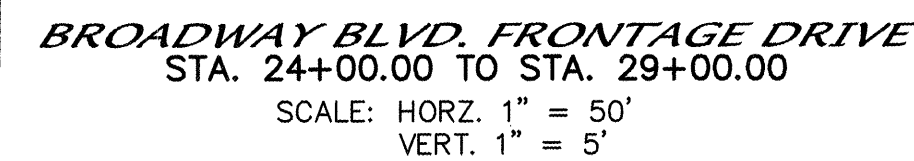


BROADWAY BLVD. FRONTAGE DRIVE
STA. 18+66.35 TO STA. 24+00.00
SCALE: HORZ. 1" = 50'
VERT. 1" = 5'



BROADWAY BOULEVARD N.E.
(R/W VARIES FROM 86' MIN.)

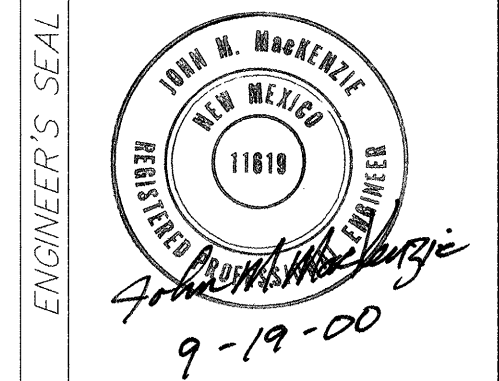
I, John M. MacKenzie, NMPE 11619 of the firm Mark Goodwin & Associates, PA, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person 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 Walker Surveying, Inc., NMPS No. 6401.



1. CONTRACTOR TO FIELD VERIFY VERTICAL ELEVATIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
2. CONTRACTOR TO INSTALL ADDITIONAL 2' OF CONCRETE SIDEWALK ALONG BROADWAY BLVD. FRONTAGE.

SANITARY SEWER SERVICES			
TRACT	STATION AT PL	INV. ELEV. AT PL	LENGTH AT PL
F	20+61.48	4977.10	22.73'
G	21+61.33	4979.10	72.07'
H	23+15.20	4978.77	70.09'
I	24+42.70	4976.90	20.00'
J	27+29.63	4975.19	20.66'
K	27+80.32	4975.52	52.30'
L	28+29.35	4976.57	119.42'

SURVEY INFORMATION			BENCH MARKS		AS BUILT INFORMATION	
NO.	FIELD NOTES	DATE			CONTRACTOR	
	STATION "NW47-13" IS LOCATED 1.8 MILE NORTH OF DOWNTOWN ALBUQUERQUE, AT THE INTERSECTION OF SECOND ST. AND MENAUL BLVD., NW. TO REACH THE STATION FROM THE INTERSECTION OF CENTRAL AVE., AND SECOND ST. GO NORTH ON SECOND ST., 1.8 MILE TO THE STATION IN THE CENTER OF THE SECOND ST., MEDIAN STRIP JUST SOUTH OF THE INTERSECTION. STATION MARK IS A STANDARD MUSIC BRASS TABLET, STAMPED "STA/NW47-13". SET IN TOP OF CONCRETE POST PROJECTING 0.1 FT. ABOVE THE GROUND.				WORK STARTED BY <i>Condyne Const.</i>	
	X = 382,262.47 Y = 1,495,630.34 Z = 4968.392				WORK ACCEPTED BY <i>Walker Surv.</i>	
					FIELD LOCATION BY <i>MGH</i>	
					DRAWINGS BY <i>MGH</i>	
					CORRECTED BY <i>MGH</i>	
					RECORDED BY	DATE



RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)					
PIPE SIZE	90°	45°	22.5°	11.25°	VAL
6"	17'	7'	—	—	4'
10"	—	11'	5'	3'	7'

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

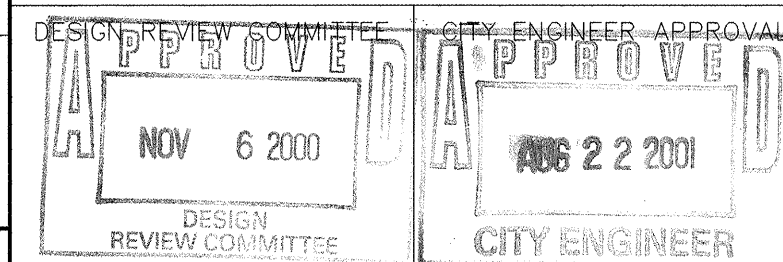
RESTRAINED JOINT LENGTH FOR TEES (FT.)		
PIPE SIZE	RUN	BRANCH
10"x10"x10"	15'	5'
10"x10"x6"	6'	1'

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



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

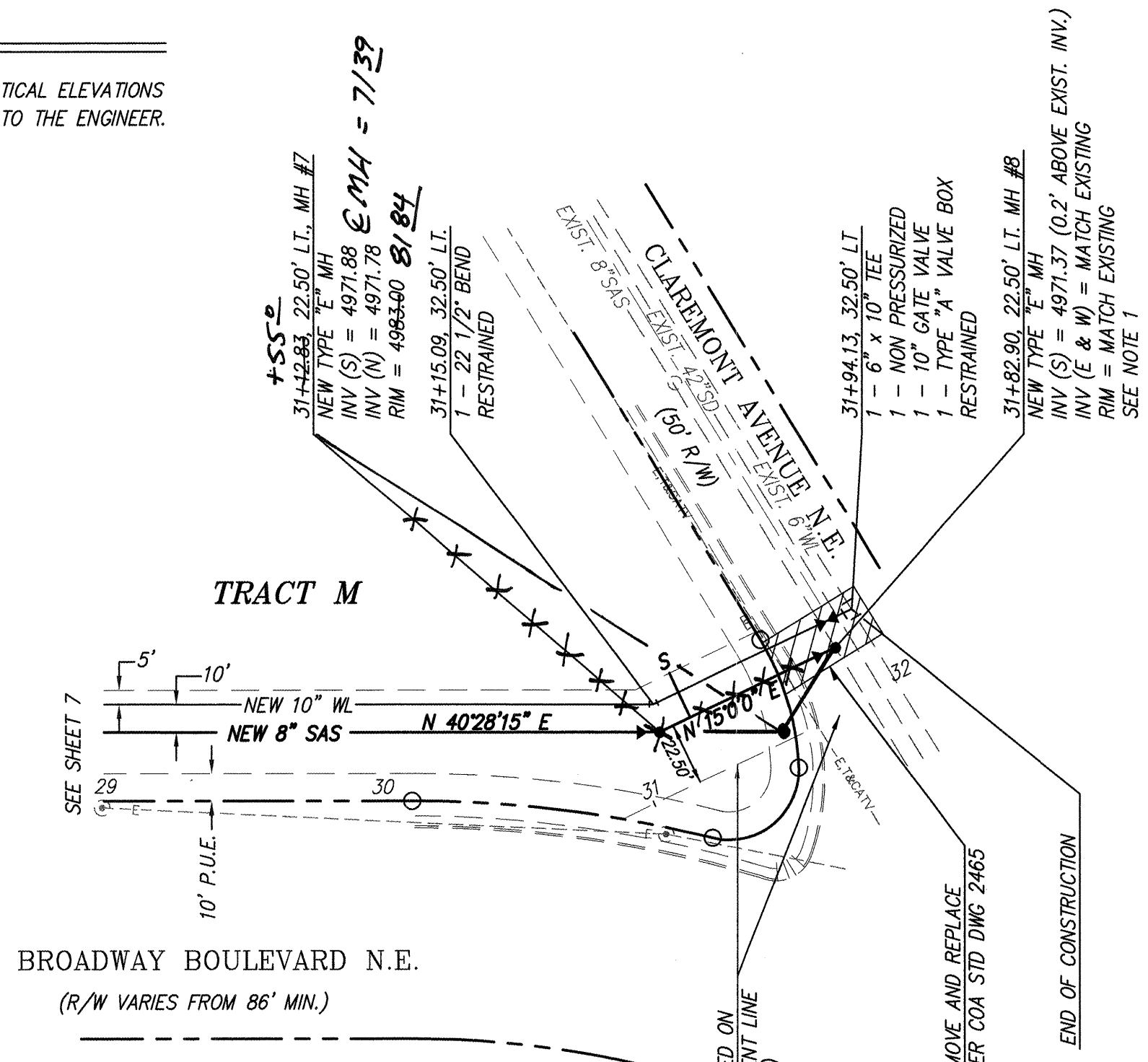
TITLE: ***GATEWAY INDUSTRIAL PARK
UTILITY IMPROVEMENTS***



CITY PROJECT NO. 639381	ZONE MAP NO. H-14	SHEET 7	OF 11
-----------------------------------	-----------------------------	-------------------	-----------------

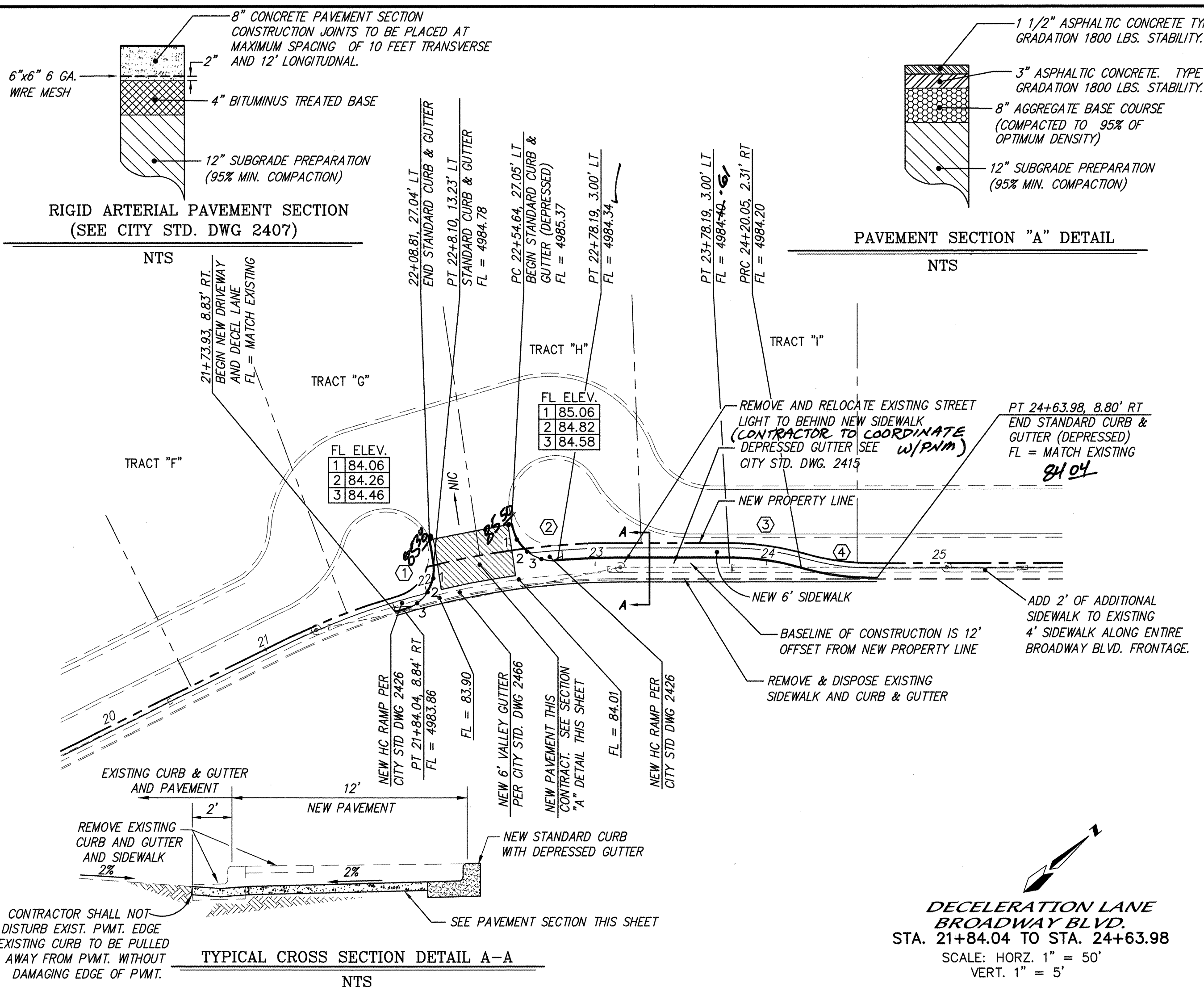
NOTES

1. CONTRACTOR TO FIELD VERIFY VERTICAL ELEVATIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER.



SANITARY SEWER SERVICES			
TRACT	STATION AT PL	INV. ELEV. AT PL	LENGTH AT PL
M	31+25.09	4972.72	17.50'

UTILITY IMPROVEMENTS
BROADWAY BLVD. FRONTAGE ROAD
STA. 29+00.00 TO STA. 31+94.13
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'



DECELERATION LANE
BROADWAY BLVD.
STA. 21+84.04 TO STA. 24+63.98
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

NOTES

1. ALL STATIONING IS BASED UPON PROPERTY LINE OR PROJECTION OF PROPERTY LINE.

2. CONTRACTOR TO REFER TO CITY STANDARD DRAWINGS 2420 AND 2426 FOR MORE INFORMATION.

3. BROADWAY BLVD. HAS BEEN RECENTLY REPAVED. CONTRACTOR TO CONTACT ENGINEER IF IT BECOMES NECESSARY TO DISTURB EXISTING BROADWAY BLVD. PAVEMENT

CURVE DATA - DESCRIBES FACE OF CURB

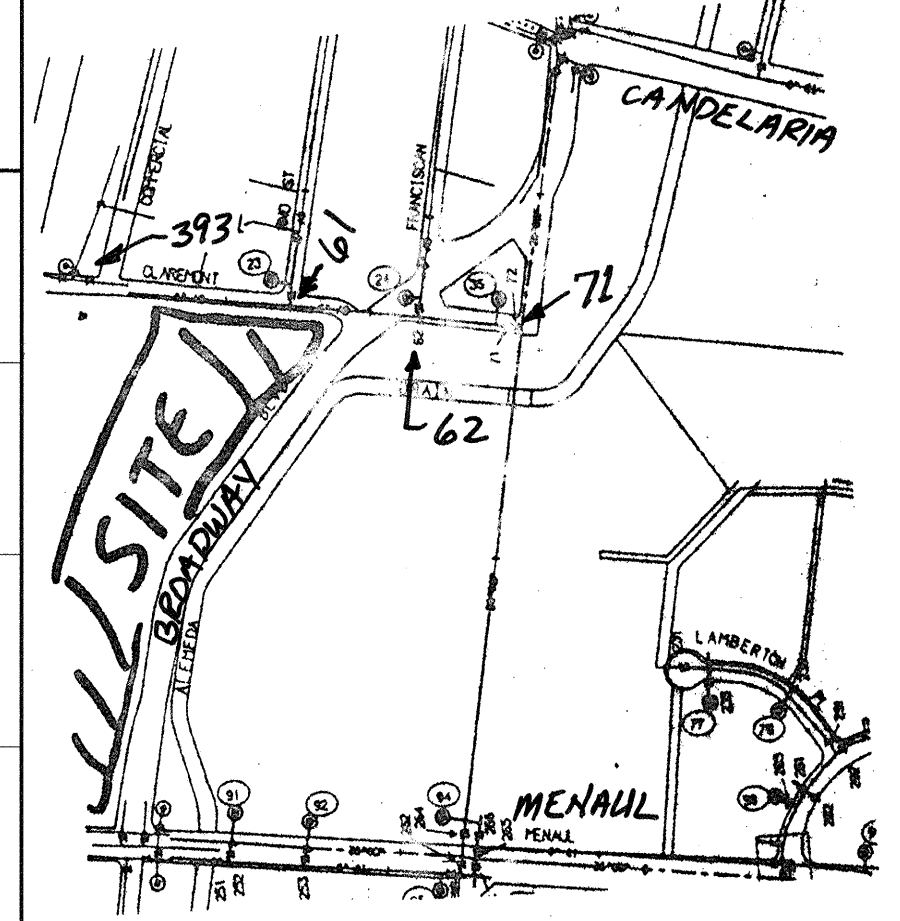
① Δ = 81°45'35" R = 25.00' L = 35.67' T =	② Δ = 86°20'24" R = 25.00' L = 37.67' T =
③ Δ = 16°08'02" R = 150.00' L = 42.24' T =	④ Δ = 17°03'35" R = 150.00' L = 44.66' T =

VALVE SHUT-OFF PLAN

1. TO CONNECT NEW 10" WATERLINE TO EXISTING 6" CI WATERLINE IN CLAREMONT AVE., VALVES NOS. 61, 62, 71 & 393 WILL HAVE TO BE CLOSED.

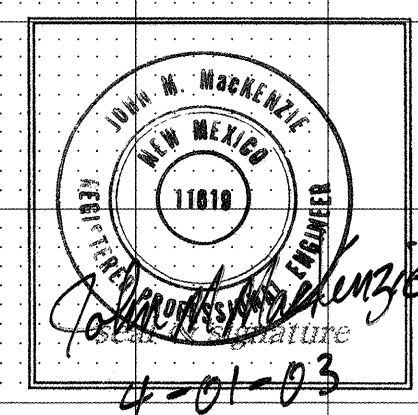
2. CONTRACTOR WILL CONTACT WATER SYSTEMS AT 857-8200 3 DAYS PRIOR TO NECESSARY SHUT-OFF.

3. VALVES SHALL ONLY BE OPERATED BY CITY WATER EMPLOYEES.



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, John M. MacKenzie, NMPE 11619, 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 Walker Surveying, Inc., NMPS No. 6401.



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

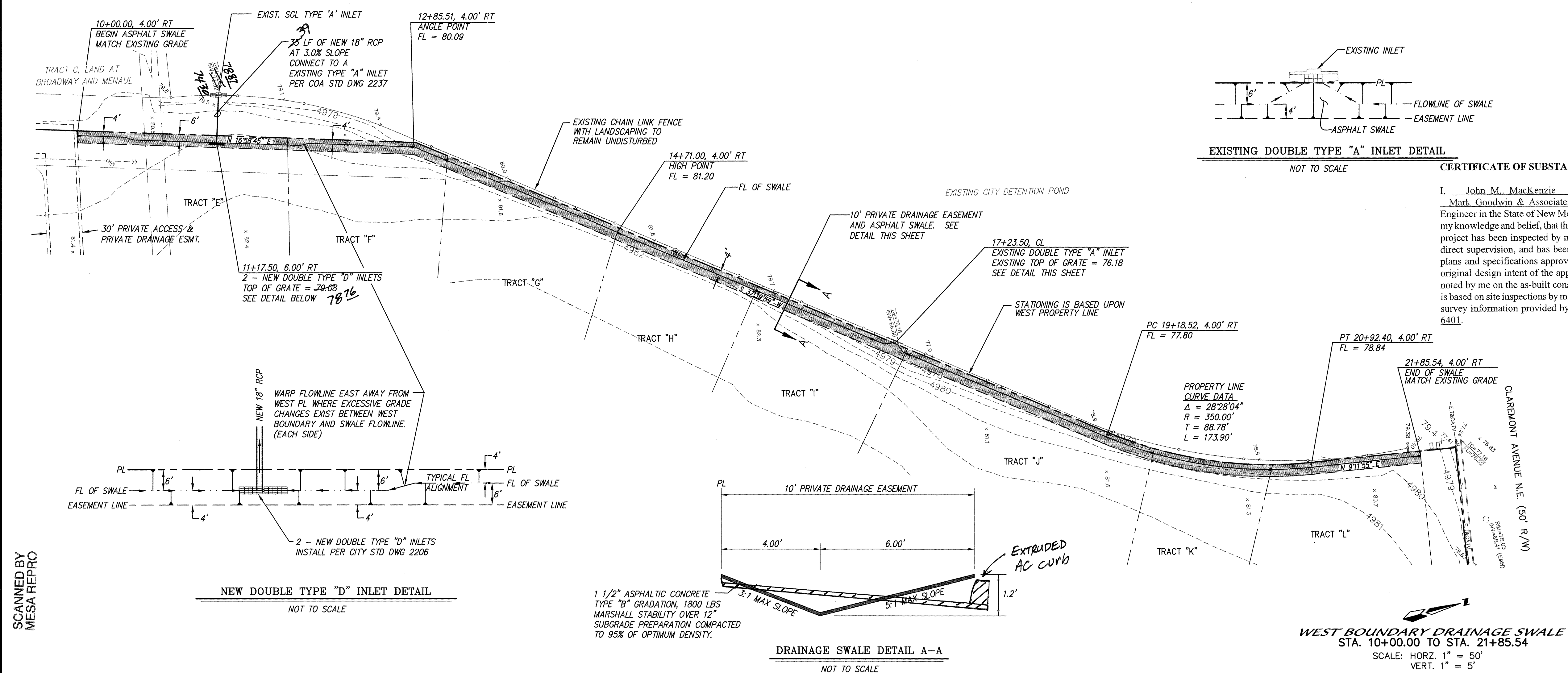
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: GATEWAY INDUSTRIAL PARK
DECELERATION LANE/UTILITY IMPROVEMENTS

NO.	DATE	REVISIONS	DESIGN	DATE	BY
1	NOV 6 2000	DESIGN	DMG	6/00	DMG
2	AUG 22 2001	REVISIONS	DMG	6/00	DMG

CITY PROJECT NO. 639381 ZONE MAP NO. H-14 SHEET 8 OF 11

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		DESIGNED BY		DRAWN BY		CHECKED BY	
CONTRACTOR	Walker Surveying, Inc.	STATION	11619-13" IS LOCATED 1.8 MILE NORTH OF DOWNTOWN ALBUQUERQUE, AT THE INTERSECTION OF SECOND ST. AND MENAUL BLVD. NW. TO REACH THE STATION FROM THE INTERSECTION OF CENTRAL AVE. AND SECOND ST., GO NORTH ON SECOND ST. 1.8 MILE TO THE STATION IN THE CENTER OF THE SECOND ST. MEDIAN STRIP JUST SOUTH OF THE INTERSECTION. STATION MARK IS A STANDARD INCHES BRASS TABLET STAMPED "STA. 11619-13" SET IN TOP OF CONCRETE POST PROJECTING 0.1 FT. ABOVE THE GROUND.	DATE	9-19-00	NO.	11619	NO.	DMG	NO.	DMG	NO.	DMG
WORK STATIONED BY	Walker Surveying, Inc.	DATE	9-19-00	BY	DMG	DATE	9-19-00	DATE	6/00	DATE	6/00	DATE	6/00



12' WIDE ASPHALT SWALE
4% SLOPE
MATCH EXISTING GRADE

10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00

11+17.50, 6.00' RT
2 - NEW DOUBLE TYPE "D" INLETS
TOP OF GRADE = 78.47
INV. = 74.50

17+23.50, 4.00' RT
EXISTING INLET
EXISTING TOP OF GRADE = 76.20
NEW FL = 77.69

PROPOSED GRADE ALONG FL OF SWALE

EXISTING GRADE ALONG WEST BOUNDARY

117.50 LF NEW ASPHALT SWALE
S = -1.25%

382.50 LF NEW ASPHALT SWALE
S = +0.60%

223.50 LF NEW ASPHALT SWALE
S = -2.15%

176.50 LF NEW ASPHALT SWALE
S = +0.84%

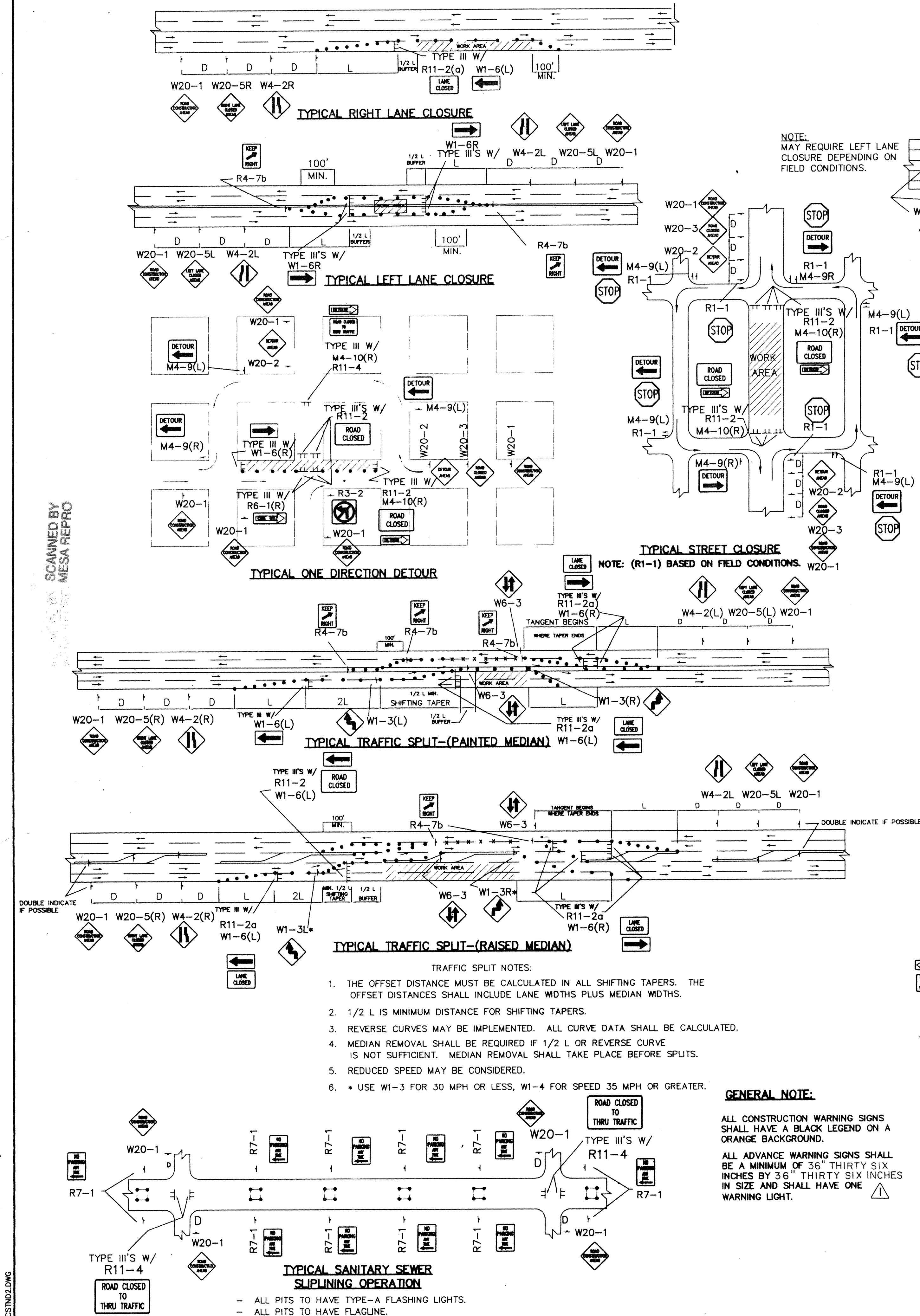
285.54 LF NEW ASPHALT SWALE
S = +0.60%

80.18
80.18
79.54
78.93
80.66
78.90
79.20
80.06
79.50
79.80
80.33
80.10
80.40
81.06
80.70
81.00
81.60
79.93
78.85
79.95
77.78
78.70
77.46
76.42
76.85
77.70
77.25
77.69
78.96
77.99
78.29
79.14
78.59
78.89
79.28
79.19

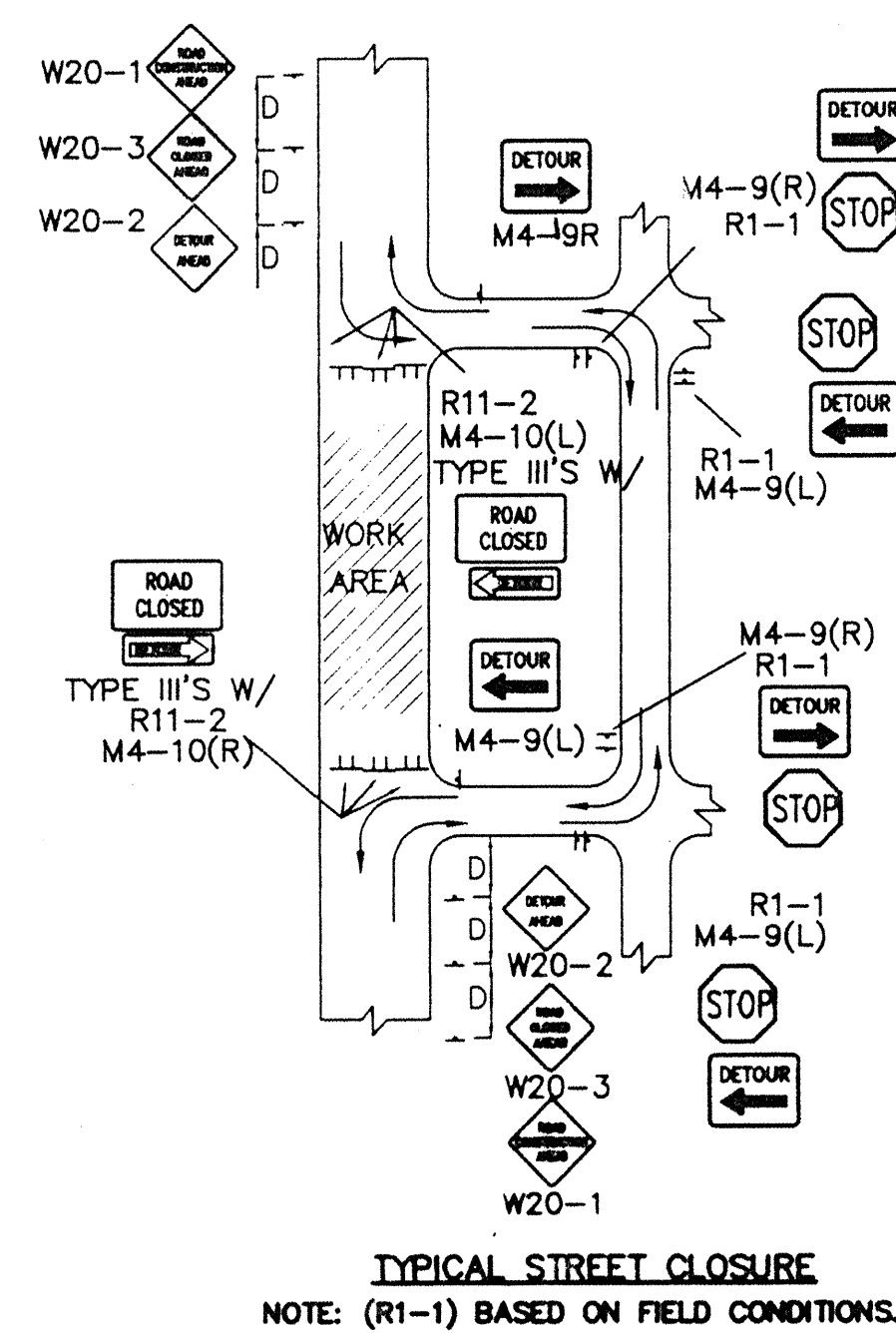
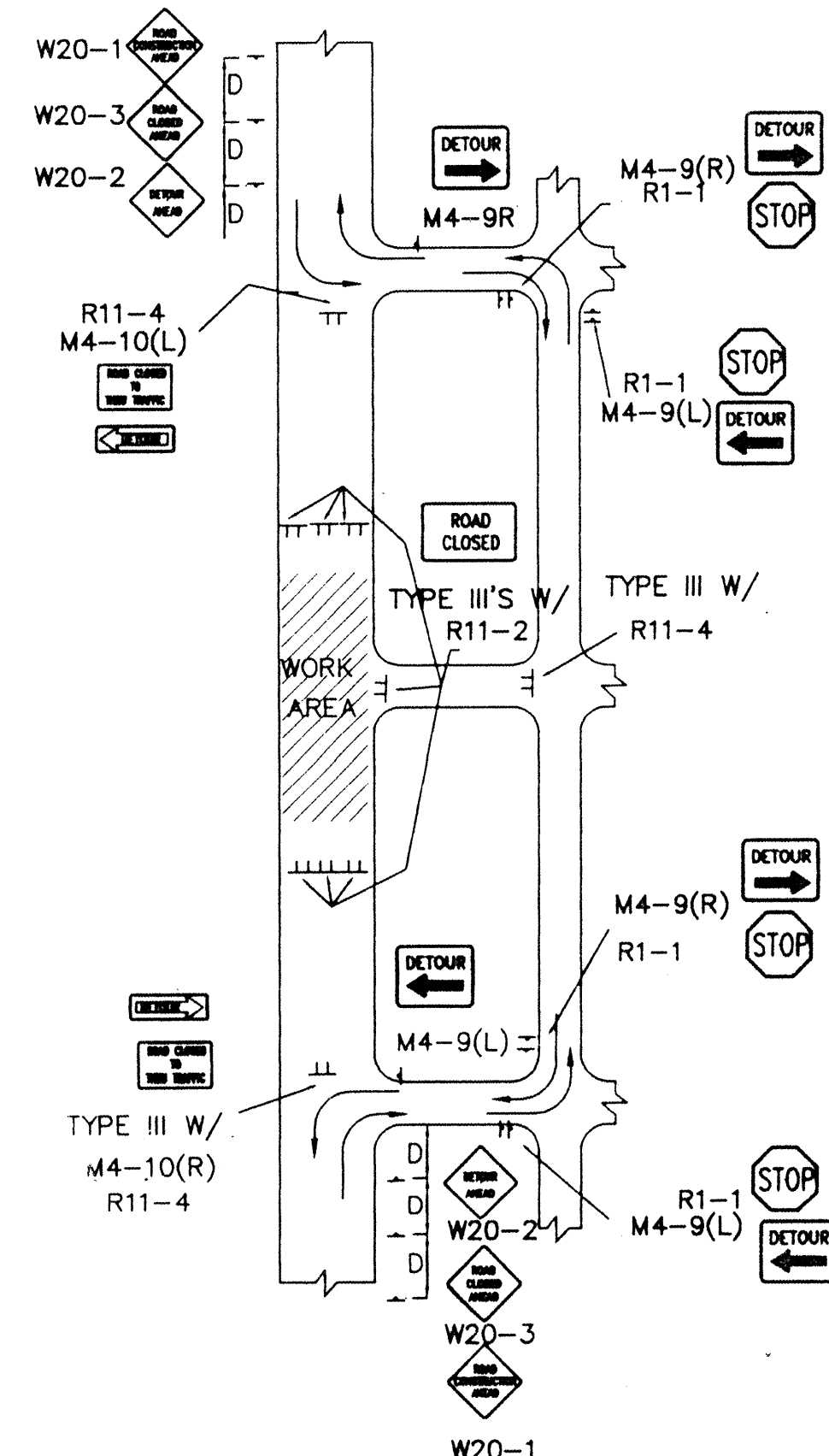
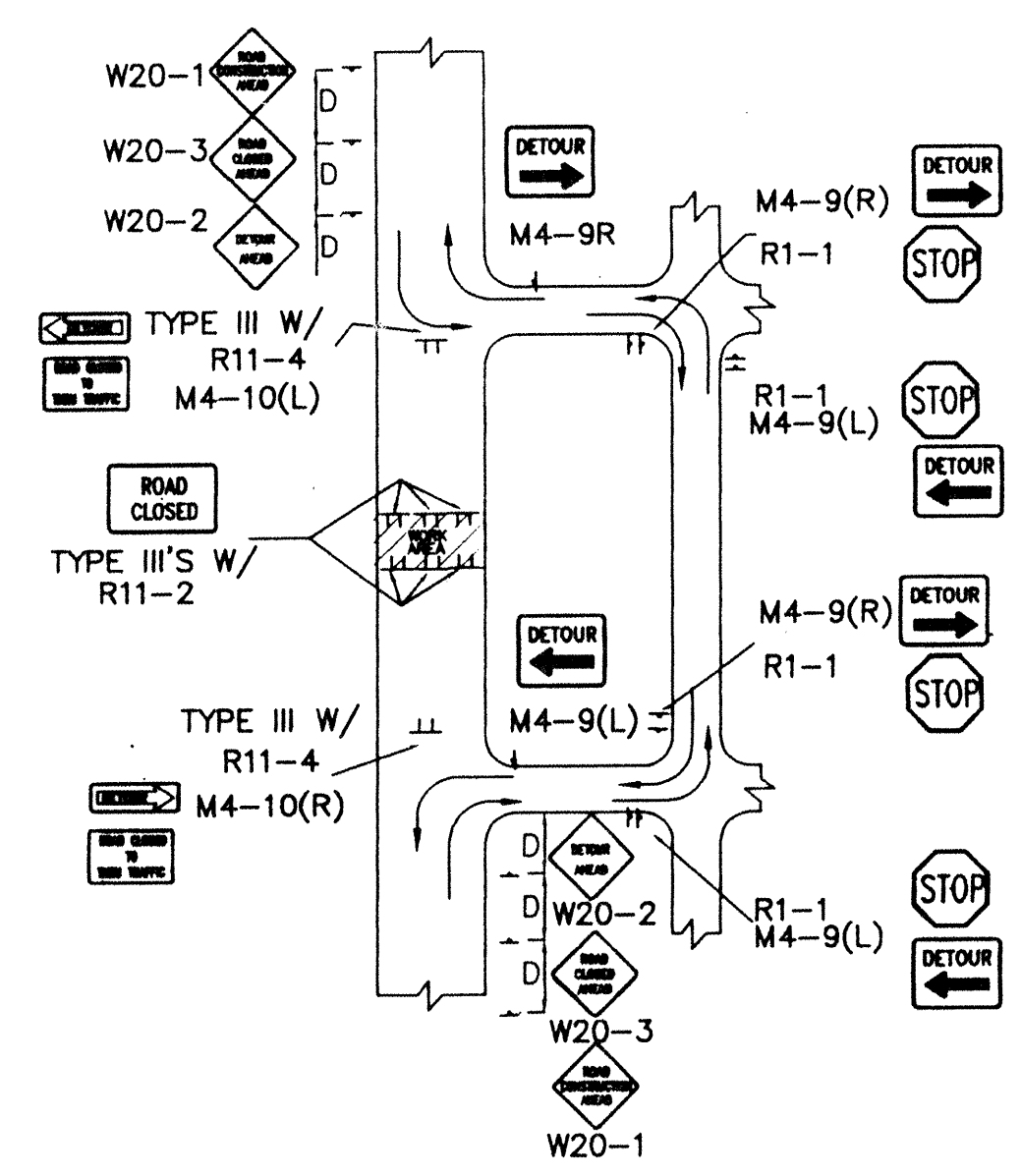
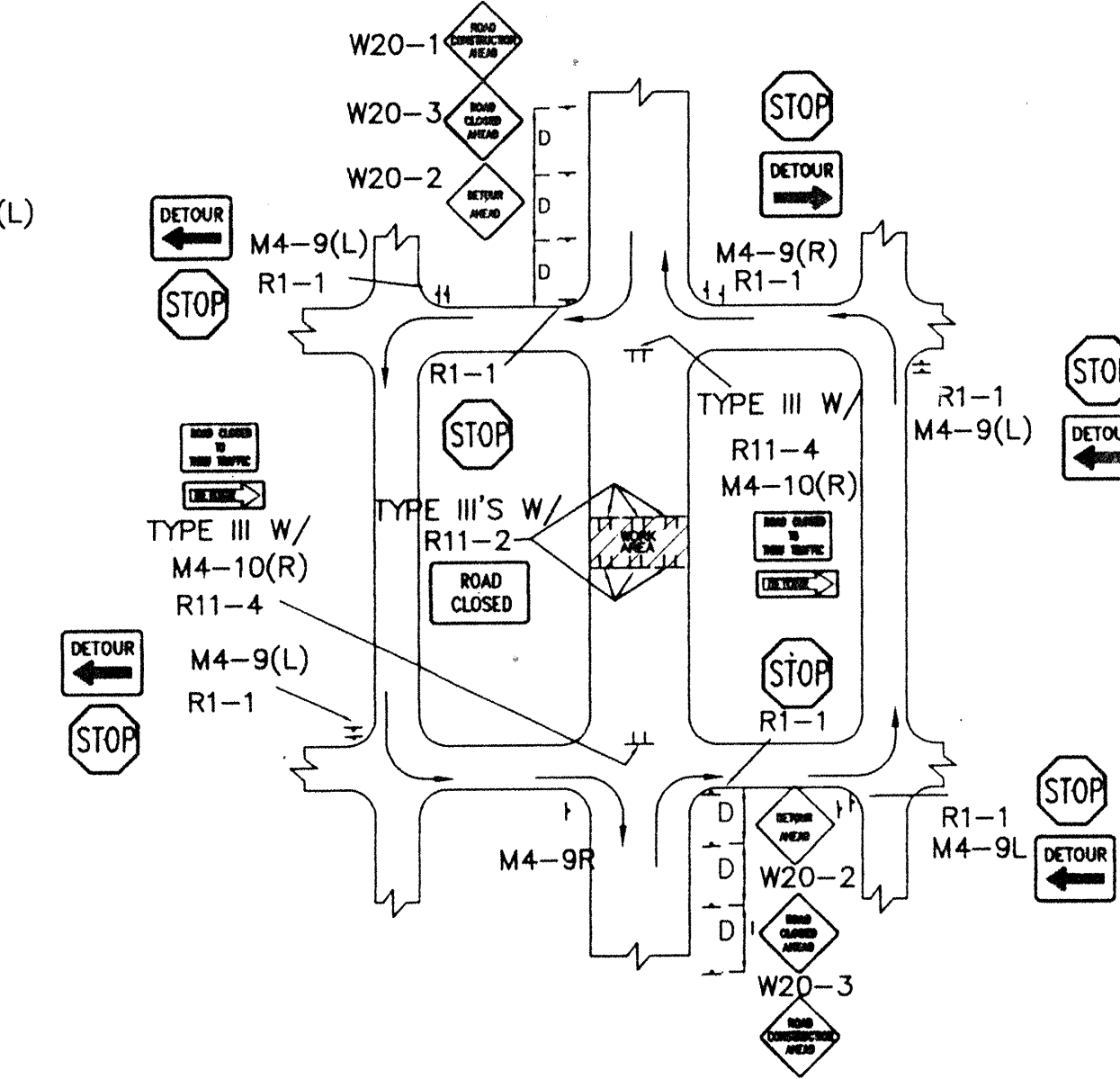
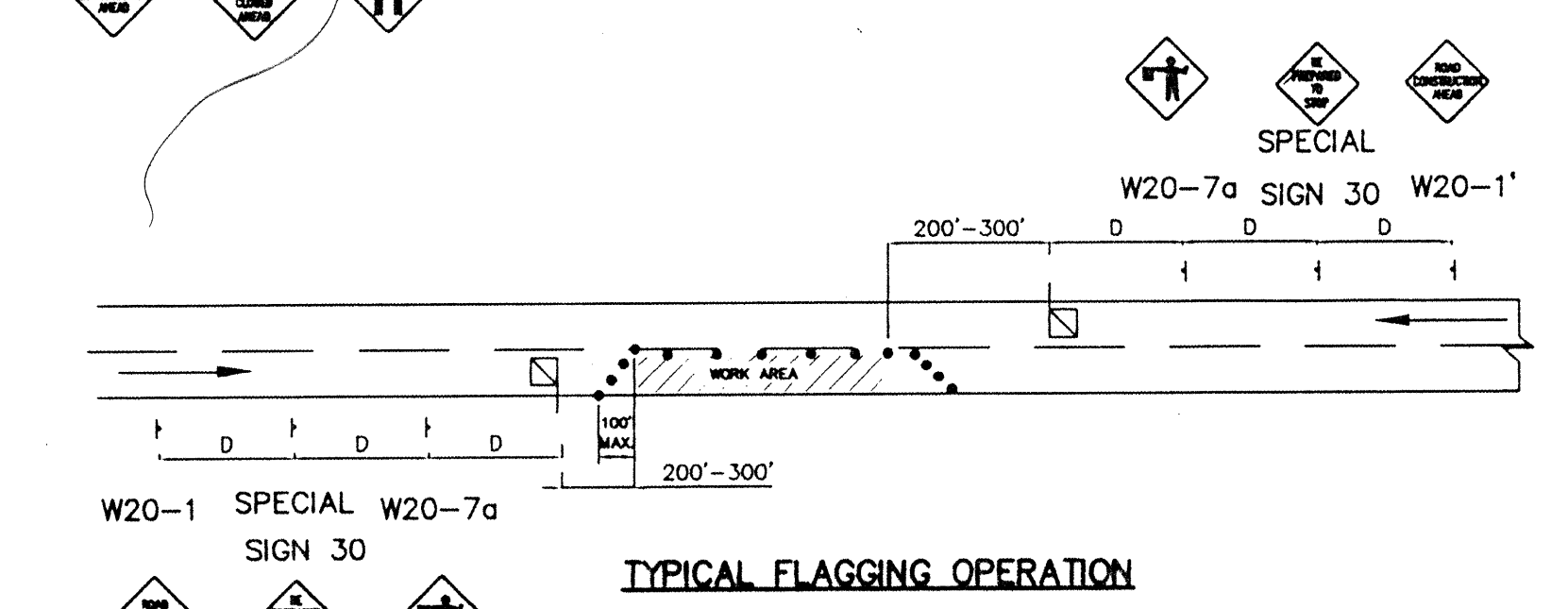
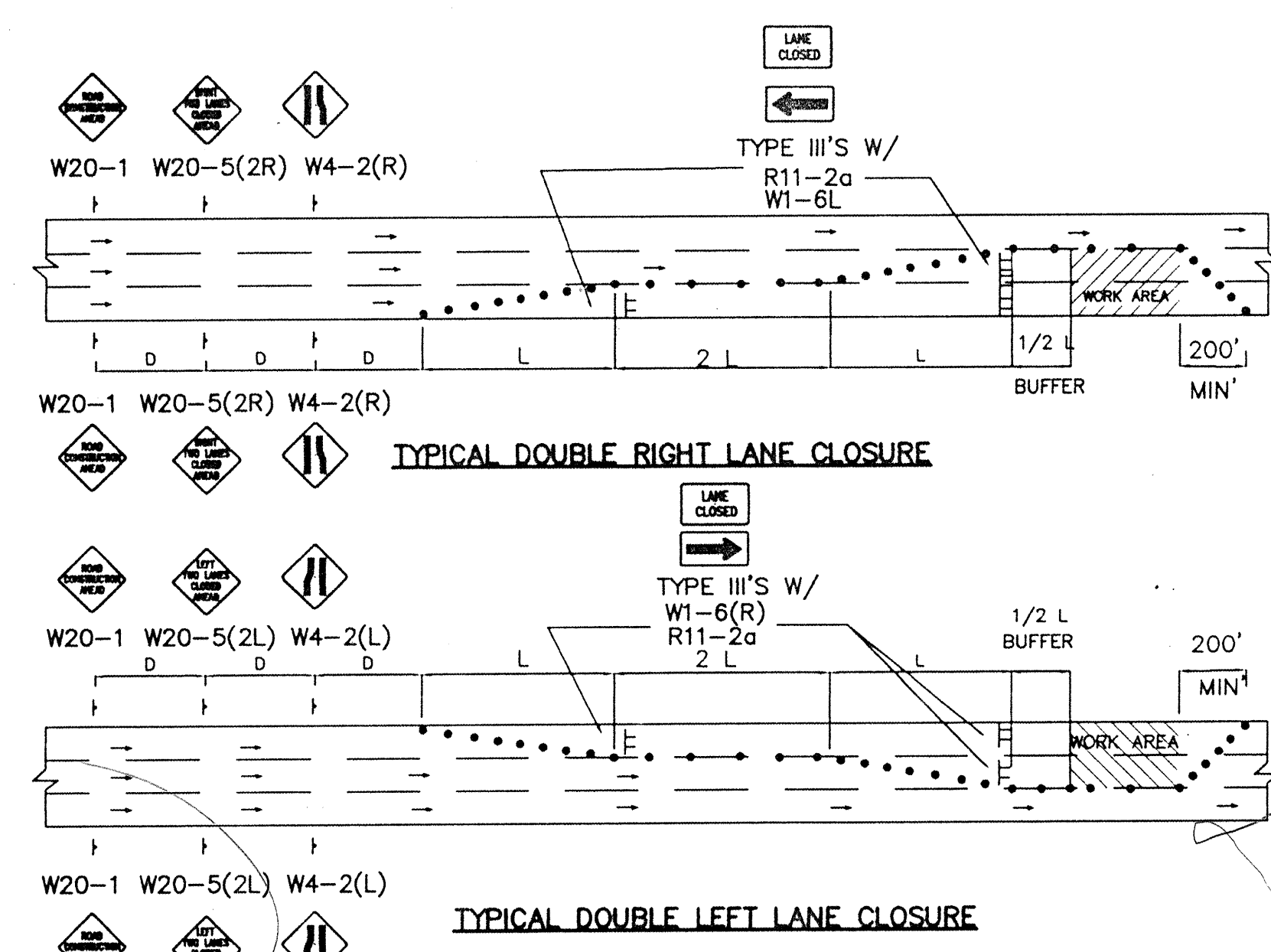
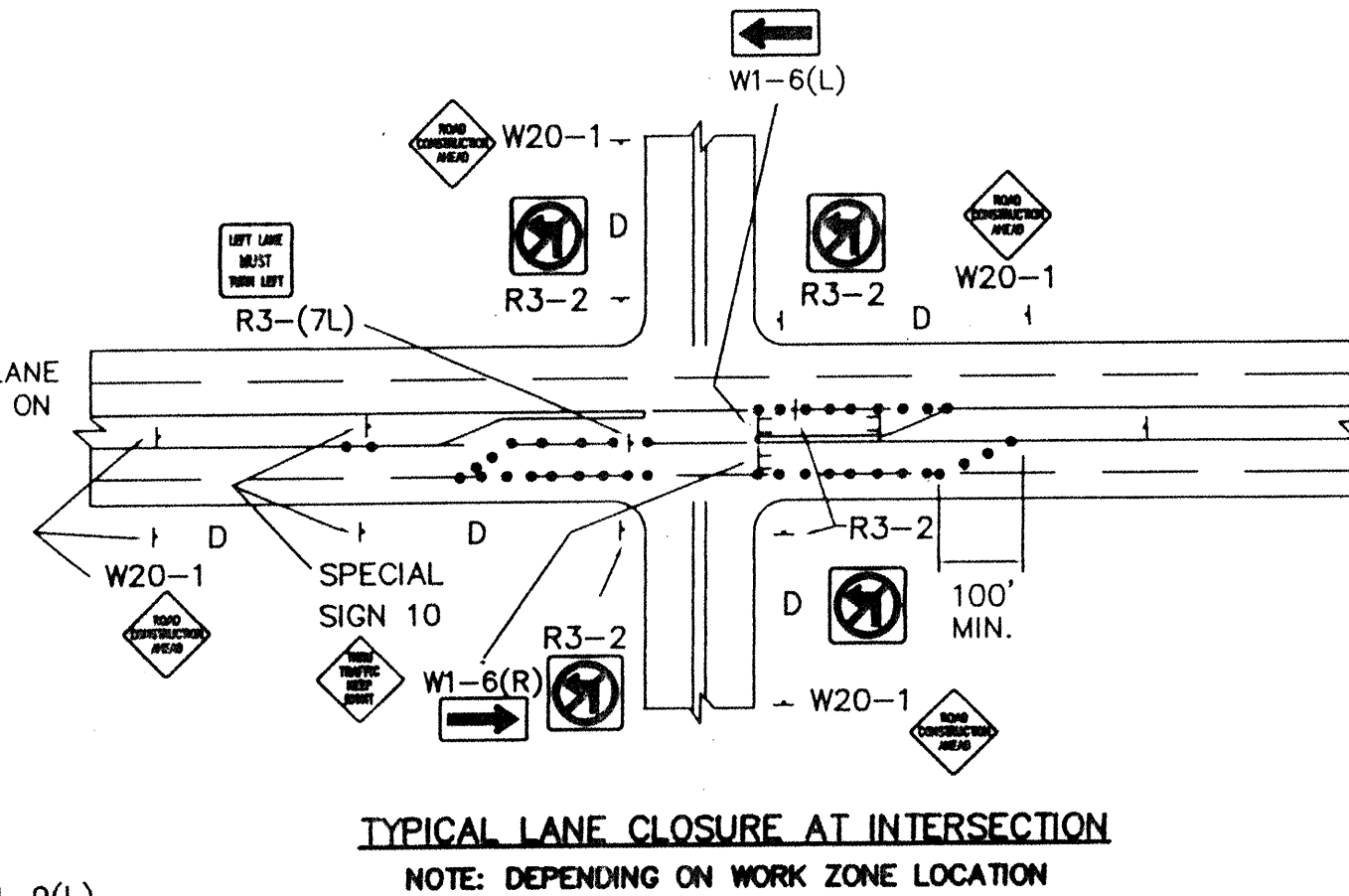
10+00.00, 4.00' RT
BEGIN ASPHALT SWALE
PROVIDE TRANSITION INTO ADJACENT GRADES
FL = MATCH EXISTING GRADE

21+85.54, 4.00' RT
END ASPHALT SWALE
MATCH EXISTING GRADE

NOTES 1. ALL STATIONING IS BASED UPON WEST PROPERTY LINE OF SUBDIVISION.																																									
AL COMPLIANCE ON PLANS							AS BUILT INFORMATION																																		
MPE <u>11619</u>, of the firm _____, a Registered Professional Engineer, do hereby certify, to the best of my knowledge and belief, that all information furnished herein was prepared by or under the direct supervision of me, or another duly Licensed Professional Engineer who has been duly qualified and approved by the City Engineer and that the design complies with all applicable laws, rules and regulations. This Certification shall remain valid for one year from the date hereof unless extended by written agreement between the undersigned and the City Engineer. _____ <i>[Signature]</i> seal & signature <u>4-01-02</u>							CONTRACTOR WORK BY DATE <u>Curbore Const.</u> <u>Walber Sumner</u> <u>9-01-03</u>							INSPECTED BY DATE <u>MGH</u> <u>3-03-03</u>			FIELD VERIFICATION BY DATE <u>MGH</u> <u>3-03-03</u>			CORRECTED BY DATE <u>MGH</u> <u>4-03-03</u>			RECORDED BY DATE <u>MICRO-FILM INFORMATION</u> <u>NO</u>																		
							STATION "N447-13" IS LOCATED 1.8 MILE NORTH OF DOWNTOWN ALBUQUERQUE, AT THE INTERSECTION OF SECOND ST. AND MENAVAL BLVD., NW. TO REACH THE STATION FROM THE INTERSECTION OF CENTRAL AVE., AND SECOND ST., GO NORTH ON SECOND ST., 1.8 MILE TO THE STATION IN THE CENTER OF THE SECOND ST., MEDIAN STRIP JUST SOUTH OF THE INTERSECTION. STATION MARK IS A STANDARD IMBISC BRASS TABLET, STAMPED "STA.N447-13". SET IN TOP OF CONCRETE POST PROJECTING 0.1 FT. ABOVE THE GROUND. <u>X = 382,262.47 Y = 1,495,630.34 Z = 4968.392</u>							NO.			BY			DATE																					
ENGINEER'S SEAL							 <u>John H. MacKinnon</u> <u>9-19-00</u>																																		
							SURVEY INFORMATION							BENCH MARKS																											
							NO.			BY			DATE																												
dmg MARK GOODWIN & ASSOCIATES, P.A. CONSULTING ENGINEERS P.O. BOX 90608 ALBUQUERQUE, NEW MEXICO 87199 (505) 828-2200, FAX (505) 797-9539																																									
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP							DESIGNED BY <u>JMM</u>							DATE <u>9/00</u>																											
							DRAWN BY <u>NHM</u>							DATE <u>9/00</u>																											
							CHECKED BY <u>DWG</u>							DATE <u>9/00</u>																											
TITLE:							GATEWAY INDUSTRIAL PARK WEST BOUNDARY DRAINAGE SWALE																																		
APPROVED							APPROVED							LAST DESIGN UPDATE							MO./DAY/YR.							MO./DAY/YR.													
NOV 6 2000							AUG 22 2001																																		
DESIGN REVIEW COMMITTEE							CITY ENGINEER																																		
CITY PROJECT NO.							ZONE MAP NO.							SHEET							OF																				
<u>639381</u>							<u>H-14</u>														<u>9</u>							<u>11</u>													



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



AS-BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	DATE	STANDARD	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE
WORK	DATE	STANDARD	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE
FIELD	DATE	STANDARD	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE
REVISIONS	DATE	STANDARD	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE
DESIGNED BY	DATE	STANDARD	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE
DRAWN BY	DATE	STANDARD	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE
CHECKED BY	DATE	STANDARD	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE
RECORDED BY	DATE	STANDARD	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE
NO.	DATE	STANDARD	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. MUT.C.D.)			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR	MO./DAY/YR
COA	Standard		
PROJECT NO.	639381	MAP NO.	
SHEET 10 OF 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. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24-HOUR PER DAY BASIS UNTIL COMPLETED.

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

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

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

22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:

- STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
- SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

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

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

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

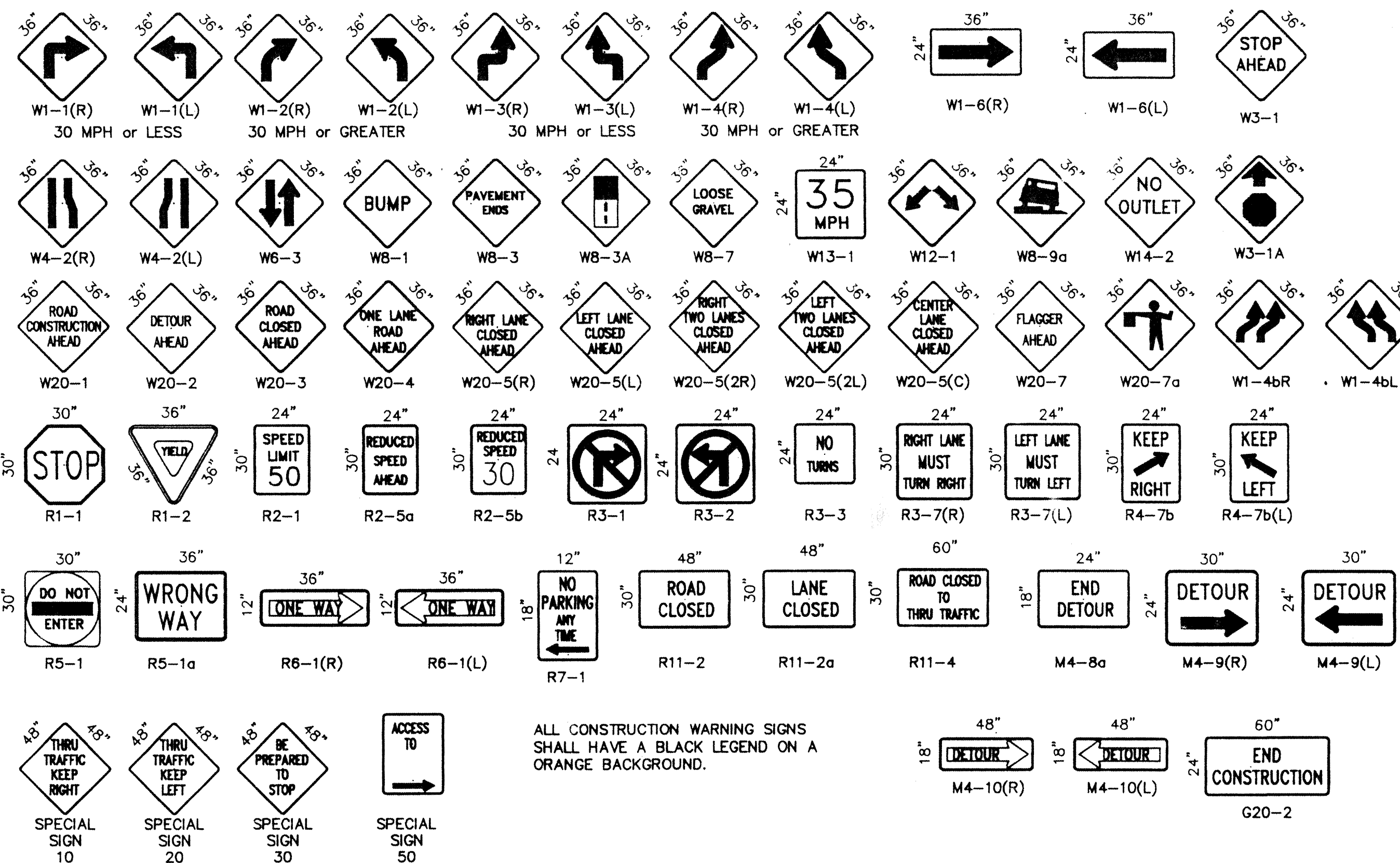
26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.

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

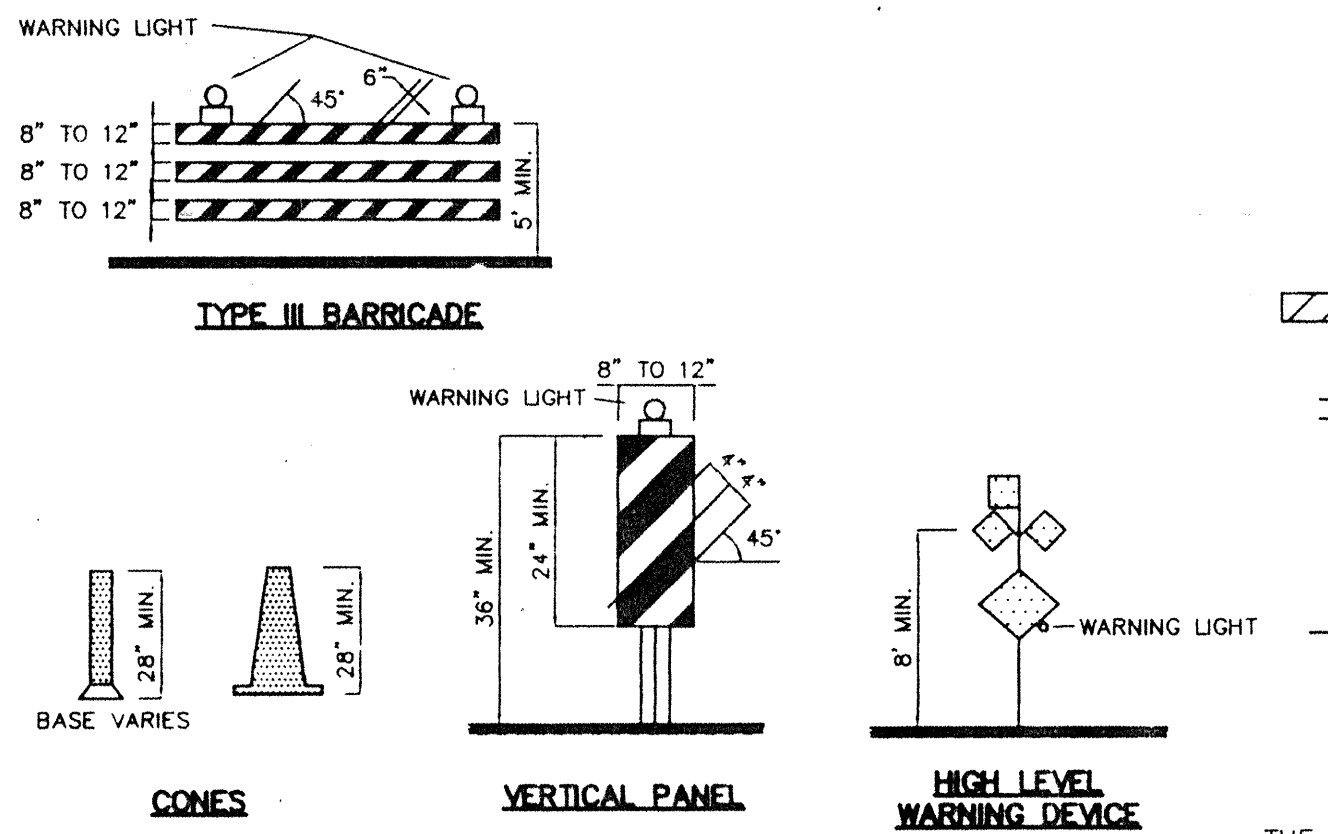
SPECIAL PROJECT TRAFFIC CONTROL NOTES

- ARTERIAL/COLLECTOR ROAD USAGE FEES OF \$0.01 PER SQUARE FOOT OF BARRICADED AREA WILL BE ASSESSED ON BOTH BROADWAY BLVD. AND MENAUL BLVD.
- REQUESTS FOR EXCAVATION AND BARRICADING PERMITS MAY BE DELAYED OR DENIED DUE TO OTHER PROJECTS ON-GOING IN THE VICINITY OF THIS PROJECT, PARTICULARLY THE BIG I PROJECT.
- IF CONFLICTS ARISE BETWEEN THIS PROJECT AND THE BIG I PROJECT, THE BIG I PROJECT HAS PRIORITY. THE CONTRACTOR MUST IMMEDIATELY OPEN ALL LANES OF TRAFFIC ON BOTH BROADWAY BLVD. AND MENAUL BLVD. UPON REQUEST BY THE CITY OF ALBUQUERQUE.
- AS MUCH AS POSSIBLE, THE CONTRACTOR MUST SCHEDULE HIS/HER WORK TO COINCIDE WITH THE BIG I PROJECT LANE AND ROAD CLOSURES ON BOTH BROADWAY BLVD. AND MENAUL BLVD.
- THE CONTRACTOR MUST MAINTAIN ALL LANES ON BROADWAY BLVD. OPEN TO TRAFFIC FROM 6:00 AM TO 9:00 AM, AND FROM 3:00 PM TO 6:00 PM, MONDAY THROUGH FRIDAY, UNLESS OTHERWISE APPROVED BY THE CITY'S CONSTRUCTION COORDINATOR. APPROVAL WILL ONLY BE GRANTED IF THE BIG I CONTRACTOR ALSO HAS LANES CLOSED ON BROADWAY BLVD. AT THE SAME TIME.
- ONLY SINGLE LANE CLOSURES WILL BE ALLOWED ON BROADWAY BLVD.
- NO TRAFFIC SPLITS WILL BE ALLOWED ON MENAUL BLVD. FOR THE UTILITY CROSSINGS.
- EASTBOUND SINGLE LEFT LANE CLOSURES AND WESTBOUND DOUBLE LANE CLOSURES WILL BE ALLOWED ON MENAUL BLVD. FOR THE CROSSING OF THE WATER AND SANITARY SEWER LINES. THIS WORK MUST BE PERFORMED OVER A WEEKEND BETWEEN FRIDAY NIGHT STARTING AT 6:00 PM, AND CONTINUE ON A 24-HOUR PER DAY CONTINUOUS BASIS UNTIL MONDAY MORNING AT 5:00 AM. LANE CLOSURES ON MENAUL BLVD. WILL NOT BE ALLOWED WHEN THERE ARE ANY INTERSTATE CLOSURES BEING DETOURD ON EITHER MENAUL BLVD. OR BROADWAY BLVD., INCLUDING DIRECTIONAL RAMP DETOURS. COORDINATION WITH THE BIG I PROJECT CONTRACTOR IS ESSENTIAL FOR PERFORMING THE WORK ON MENAUL BLVD.

SIGN FACE DETAILS



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



LEGEND

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

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

TAPER REQUIREMENTS

SPEED LIMIT (MPH)	TAPER LENGTH (L) (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

SPEED MILES PER HOUR	MINIMUM DISTANCE IN FEET	
	BETWEEN SIGNS	FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

TAPER CRITERIA

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

TAPER LENGTH COMPUTATION

SPEED LIMIT	L =
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR GREATER	$L = W \times S$

L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

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

DESIGN REVIEW COMMITTEE: **C O A**
CITY ENGINEER APPROVAL: **Standard**

PROJECT NO. **639381** MAP NO. **11** SHEET **11** OF **11**