

26-169-661811-106

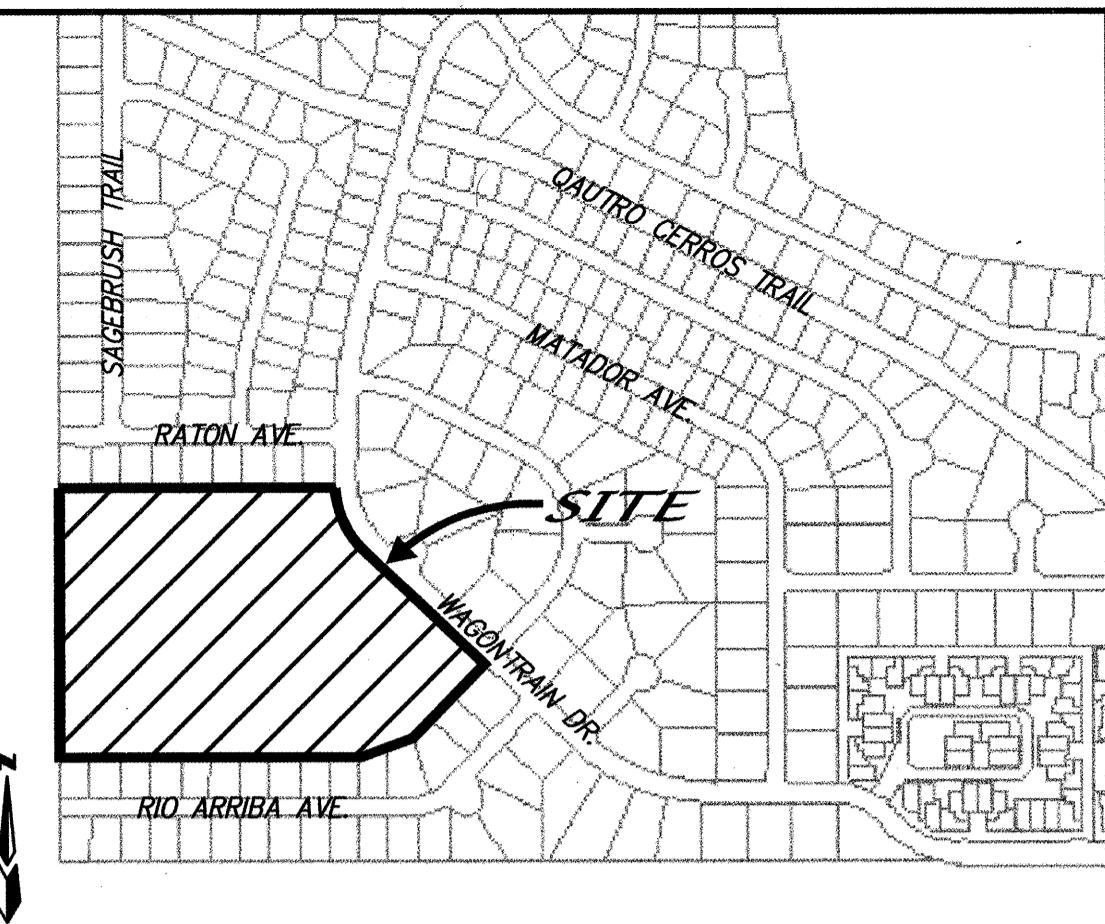
CONSTRUCTION PLANS

FOR

RESERVE AT FOUR HILLS

SUBDIVISION

ALBUQUERQUE, NEW MEXICO



VICINITY MAP ZONE ATLAS M-22
SCALE: NONE

GENERAL NOTES

NOTICE TO CONTRACTORS

- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY.
- 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 REVISED THROUGH UPDATE #6.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- 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.
- FIVE (5) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICAADING 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.
- ALL WORK AFFECTING ARTERIAL ROADWAYS REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
- 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.
- CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING 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 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 TO COVER THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- 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.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- 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.
- 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.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.

BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.

TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE ENGINEER.

SIDEWALK AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.

IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.

ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

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
Belle Devan Wolfe PE
DATE: 11/27/2006

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P. O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 228-2200, FAX (505) 797-9539

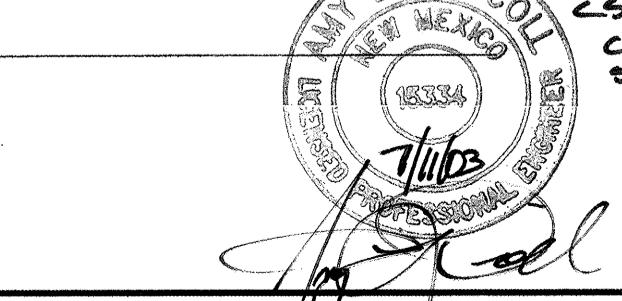
REV.	Sheets	CITY ENGINEER	DATE	User Department	DATE	User Department	DATE
ENGINEERS STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE	*****	*****	*****	*****
DRC CHAIRMAN	<i>[Signature]</i>	11-25-06	APPROVED FOR CONSTRUCTION				
TRANSPORTATION	<i>[Signature]</i>	11-26-06					
WATER/WASTEWATER	<i>[Signature]</i>	11-26-06					
HYDROLOGY	<i>[Signature]</i>	11-26-06					
CIP	<i>[Signature]</i>	11-26-06					
CONSTR. MNGMT.	<i>[Signature]</i>	11-26-06					
CONSTR. COORD.	<i>[Signature]</i>	11-26-06					
CITY PROJECT NO.	696681	SHEET OF					
	1 19						

INDEX TO DRAWINGS

SHEET NO.	SHEET
1	TITLE SHEET
2-4	PLAT
5-6	GRADING AND DRAINAGE PLAN
7	MASTER PAVING PLAN
8-11	PAVING IMPROVEMENTS
12	MASTER UTILITY PLAN
13-16	UTILITY IMPROVEMENTS
17	WATER DETAILS
18-19	TRAFFIC CONTROL

CERTIFICATION OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Amy L. Driscoll, NMPE 15334, 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 *[Signature]*. NMFS number *[Signature]*.

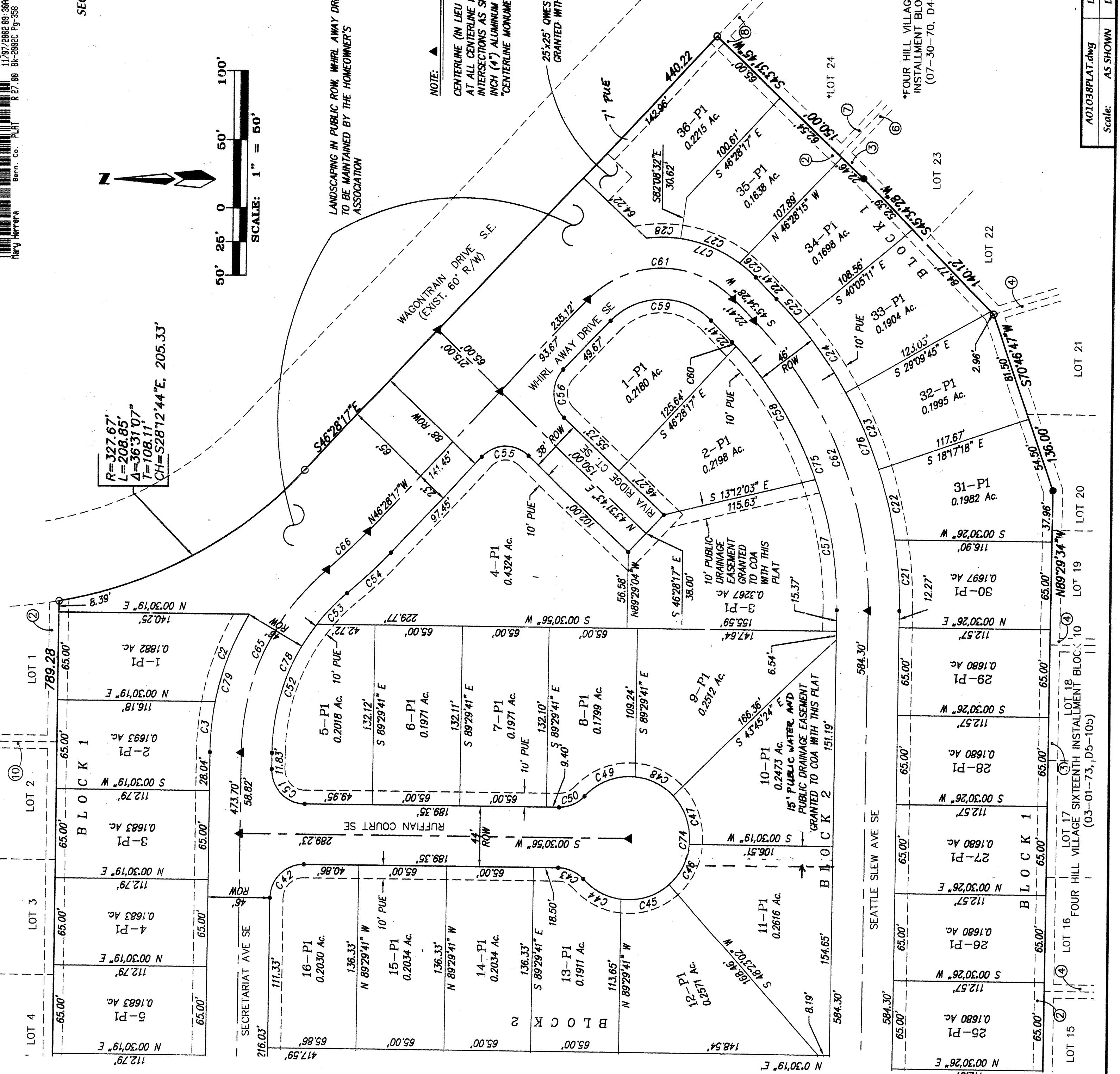


DRB NO.
1001562

RESERVE AT FOUR HILLS SUBDIVISION

SCANNED BY
PLANNING

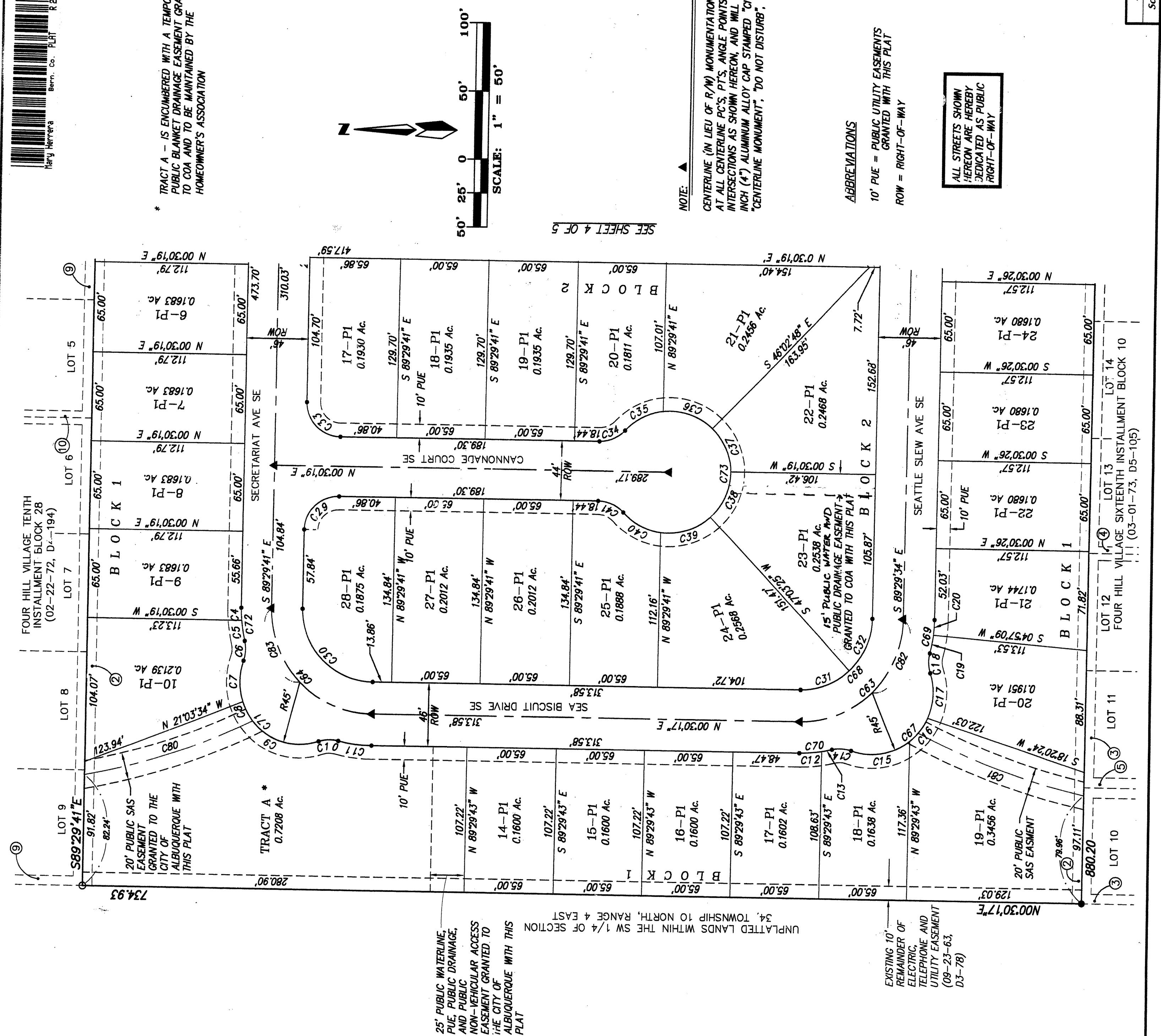
**SECTION 34, TOWNSHIP 10 NORTH, RANGE 4 EAST, NMPM
WITHIN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
SEPTEMBER, 2002**



SHEET 3 OF 5

PLAT for
**RESERVE AT FOUR HILLS
SUBDIVISION**

**SECTION 34, TOWNSHIP 10 NORTH, RANGE 4 EAST, NMPPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
SEPTEMBER, 2002**



SEE SHEET 5 OF 5 FOR CURVE TABLE

**RESERVE AT FOUR HILLS
SUBDIVISION**

WITHIN
SECTION 34, TOWNSHIP 10 NORTH, RANGE 4 EAST, NM P.M.
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
OCTOBER, 2002

CURVE	RADIUS	LENGTH	CH- BEARING	CHORD
C1	327.67	208.85	3631.07°	TAB 11 S287244°T
C2	203.00	63.66	1939.76°	18.64 N847456°W
C3	203.00	371.17	1028.22°	4.68 S874617°W
C4	96.00	93.35	528.04°	9.35
C5	96.00	75.00	347.72°	7.46 S803970°W
C6	25.00	14.50	8371.51°*	14.59
C7	45.00	30.02	3871.02°	14.30
C8	45.00	10.02	1245.39°	5.03 S645420°W
C9	45.00	70.50	8946.09°	44.82 S262347°W
C10	25.00	14.50	371.51°	14.30
C11	96.00	24.35	1474.6°	12.24 S073725°W
C12	96.00	16.81	932.36°	8.32 S094210°T
C13	96.00	77.14	431.75°	3.87 S112806°T
C14	25.00	14.50	3371.51°	7.46 N122806°T
C15	45.00	45.78	924.03°	25.09 S093837°T
C16	45.00	21.63	2732.25°	43.63
C17	45.00	33.11	42739.39°	11.03 S321323°T
C18	25.00	14.50	3371.51°	32.37
C19	96.00	13.13	7277.56°	7.46 S080741°W
C20	96.00	11.02	626.39°	6.68 S712911°E
C21	323.00	56.96	923.41°	5.52 S867617°E
C22	323.00	53.00	923.03°	26.54 N654833°E
C23	323.00	61.39	1032.22°	26.56 N762443°E
C24	323.00	61.59	1035.26°	30.74 N667628°E
C25	323.00	24.46	420.21°	12.24 N674436°E
C26	96.00	15.99	920.58°	8.01 N675335°E
C27	96.00	45.52	2822025°	13.32
C28	96.00	25.62	1459.49°	24.77 N6222025°
C29	25.00	39.27	9070070°	12.88 N6022025°
C30	52.00	81.69	8070070°	25.00 N642941°W
C31	52.00	36.36	432223°	52.00 N652233°E
C32	52.00	42.31	463726°	20.68 S271055°E
C33	25.00	39.27	9070070°	22.41 S667051°E
C34	25.00	20.67	474821°	25.00 S453019°W
C35	45.00	32.23	4170212°	11.08 S232421°W
C36	45.00	39.45	501402°	16.84 N681756°W
C37	45.00	36.54	451441°	22.23 N683017°E
C38	45.00	37.59	475132°	18.75 N663433°E
C39	45.00	39.45	501359°	13.97 S665221°E
C40	45.00	32.23	4170212°	21.10 S172935°E
C41	25.00	20.67	474821°	16.84 S272632°W
C42	25.00	39.27	9070070°	11.08 N642530°E
C43	25.00	20.67	474821°	25.00 N642941°W
C44	45.00	32.17	403756°	11.08 N642530°E
C45	45.00	38.47	4925143°	20.50 S172737°E
C46	45.00	33.92	437179°	17.61 S833242°E
C47	45.00	38.44	4925213°	20.48 N742513°E
C48	45.00	32.19	403756°	16.82 N754432°E
C49	45.00	41.29	323430°	22.23 N2170157°W
C50	25.00	30.87	474921°	11.08 S232421°W
C51	25.00	39.27	9070070°	25.00 S453019°W
C52	157.00	102.41	172225°	53.10 N702648°W
C53	157.00	32.02	114105°	16.06 N671645°W
C54	45.67	43.78	610206°	21.91 S432714°E
C55	25.00	39.27	9070070°	25.00 N612714°W
C56	25.00	39.27	9070070°	25.00 S883143°W
C57	277.00	98.48	2022208°	49.76 N601922°E
C58	277.00	114.27	2338070°	57.96 N681912°E
C59	52.00	83.54	923224°	53.89 N672634°W
C60	277.00	4.48	025539°	22.24 N672634°W
C61	75.00	120.49	920245°	77.73 N602634°W
C62	300.00	235.27	445539°	124.06 N6810227°E
C63	75.00	253.50	147411°	12.24 S663646°E
C64	75.00	117.61	8935915°	75.00 S453019°W
C65	180.00	154.12	903020°	106.07 S664536°W
C66	392.67	41.36	611206°	82.14 N672634°W
C67	45.00	100.52	1273512°	92.24 S442938°E
C68	52.00	81.68	6935915°	52.00 S442938°E
C69	98.00	24.35	147411°	114.55 N6810227°E
C70	98.00	24.35	147411°	21.11 S663646°E
C71	45.00	100.52	1273512°	12.24 S453019°W
C72	98.00	24.35	147416°	92.24 S232311°W
C73	45.00	216.49	2753843°	40.77 S892941°E
C74	45.00	216.49	2753843°	60.43 S442938°E
C75	277.00	217.23	445539°	12.24 S663646°E
C76	323.00	253.50	445539°	246.86 S663646°E
C77	98.00	30.13	5234149°	48.54 N191337°E
C78	157.00	154.43	491332°	86.99 S664536°W
C79	203.00	106.83	301359°	71.65 N671645°W
C80	500.00	130.10	154288°	54.68 N72634°W
C81	500.00	130.72	145844°	65.42 S107350°E
C82	53.00	38.90	445936°	73.73 S207124°W
C83	75.00	50.91	452001°	31.07 N681912°W

PUBLIC UTILITY EASEMENTS:

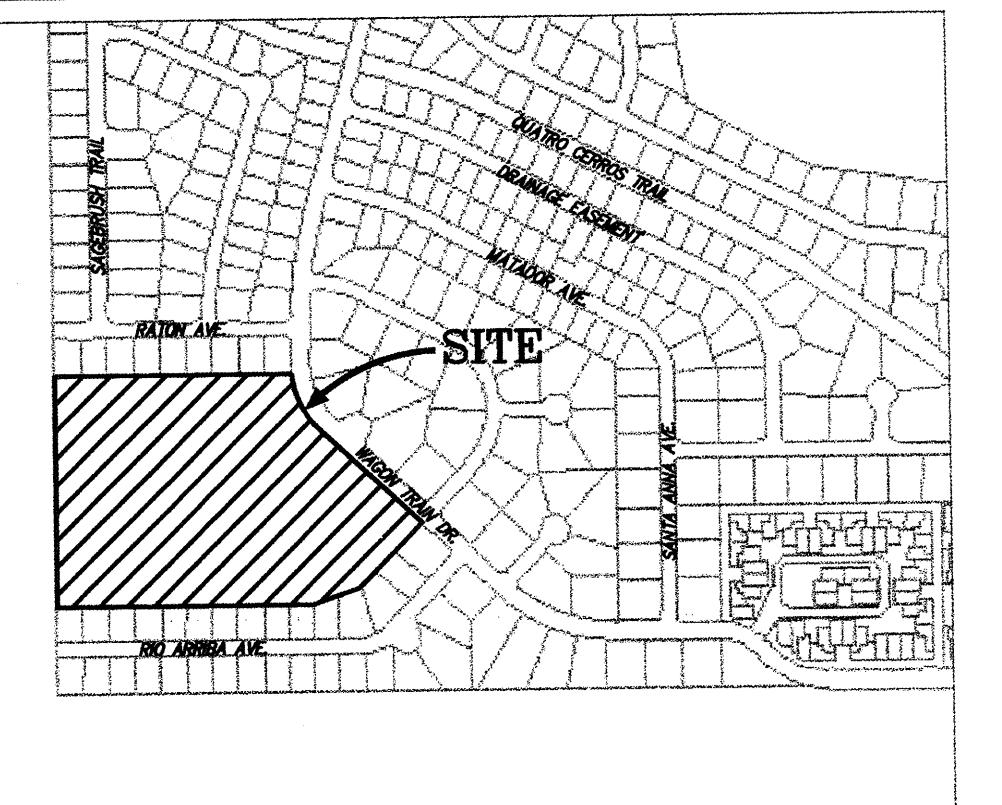
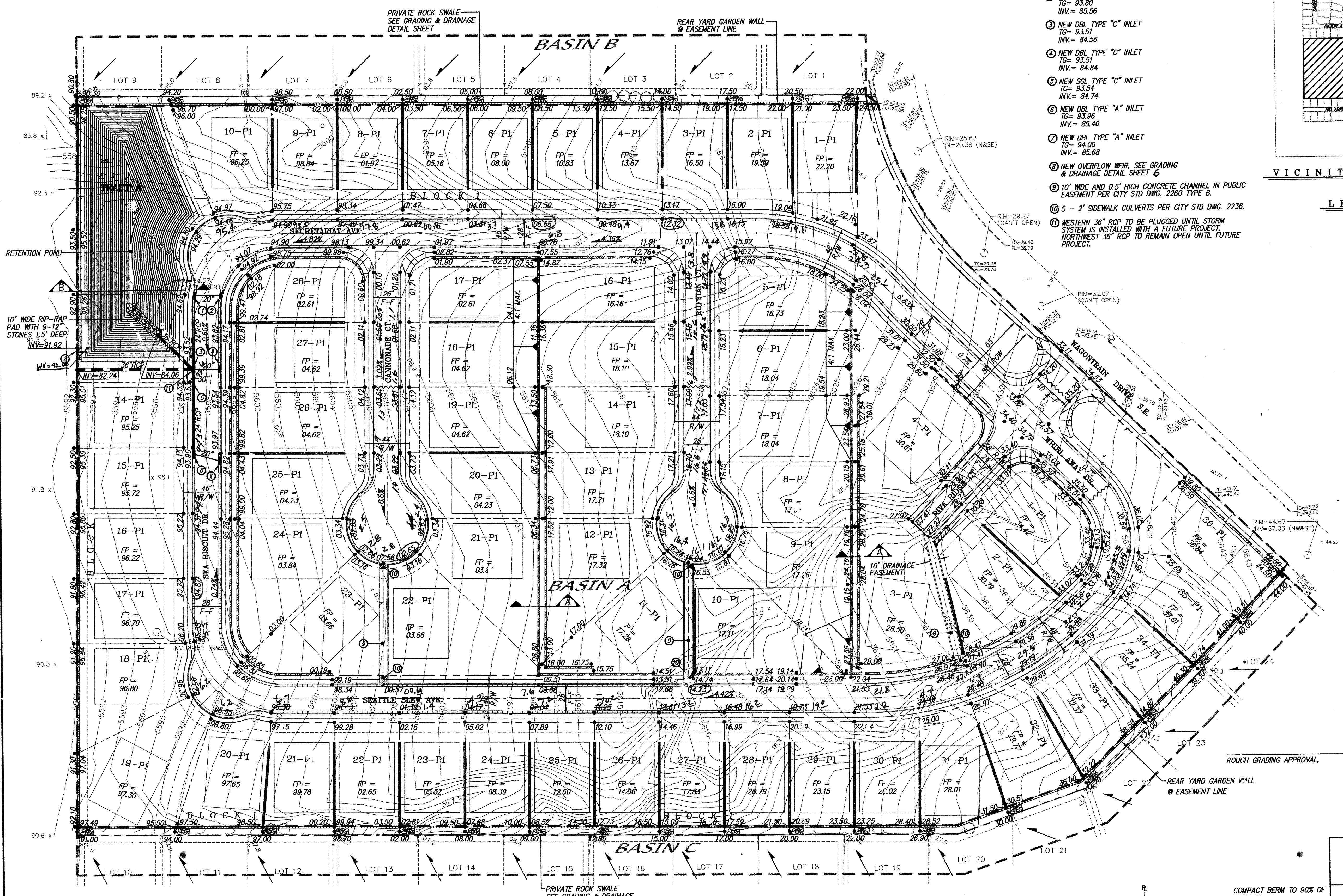
PUBLIC UTILITY EASEMENTS shown on this plat are granted for the common and joint use of:

- 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 electrical services.
- 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.
- Qwest for installation, maintenance and service of all buried and aerial communication lines and other related equipment and facilities reasonably necessary to provide communication services, including but not limited to above ground pedestals and closures.
- Comcast cable for installation, maintenance and service of such lines, cable and other related equipment and facilities reasonably necessary to provide Cable TV service.

In approving this plat, the utility companies did not conduct a Title Search of the properties shown herein. Consequently, the utility companies do not waive or release any easement or easement rights which may have been granted by prior plat, rental or other document and which are not shown on this plat. Easements for electric transformer switchgears, as installed, shall extend ten feet (10') in front of transformer/switchgear doors and five feet (5') on each side.

10-17-02

A01038PLAT.dwg Drawn: STEPHEN Checked: ALS Sheet: 5 of 5
Scale: AS SHOWN Date: 10/16/02 Job: A01038



LEGEND

- 5615 EXISTING CONTOUR (MAJOR)
- 5616 EXISTING CONTOUR (MINOR)
- TC= x 0.00 EXISTING SPOT ELEVATION
- FL= EXISTING CONCRETE CURB
- b EXISTING WALL OR HEAD WALL
- EXISTING SIGN
- EXISTING WOOD FENCE
- EXISTING CHAIN LINK FENCE
- EXISTING TREE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING ELECTRIC TRANSFORMER
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING POWER POLE
- EXISTING TELEPHONE BOX
- EXISTING CONCRETE SUPPORT
- EXISTING MAILBOX
- EXISTING BASKETBALL GOAL SUPPORT
- NEW CURB & GUTTER
- NEW STANDARD CURB & GUTTER
- NEW SIDEWALK
- NEW RIGHT-OF-WAY
- NEW CENTERLINE
- NEW LOT LINES
- NEW EASEMENTS
- NEW GARDEN WALL
- NEW PERIMETER RETAINING WALL
- NEW SIDE LOT RETAINING WALL
- NEW SPOT ELEVATIONS
- NEW FLOW
- NEW ROCK SWALE
- NEW SLOPE
- NEW HIGH POINT
- NEW B/SIN BOUNDARY
- NEW CHAIN LINK FENCE

20.00

50' 25' 0 50' 100'

SCALE: 1" = 50'

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

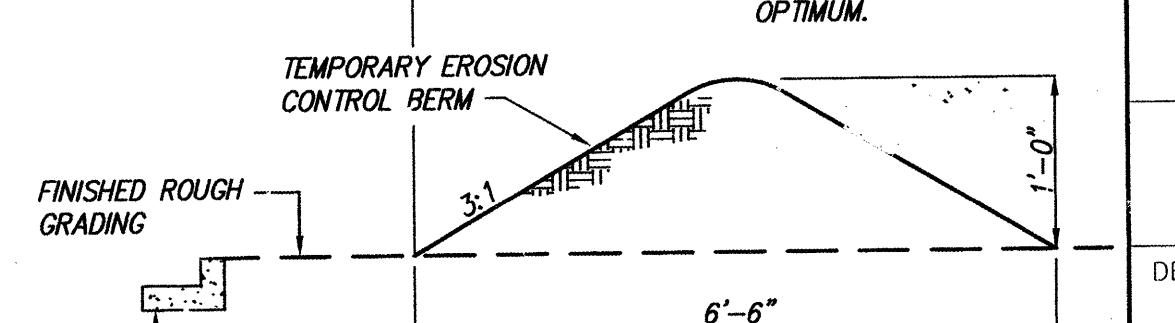
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

RESERVE AT FOUR HILLS
GRADING & DRAINAGE PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
FOR INFORMATION ONLY			

LAST DESIGN UPDATE

CITY PROJECT NO. 696681 ZONE MAP NO. M-22 SHEET 5 OF 19



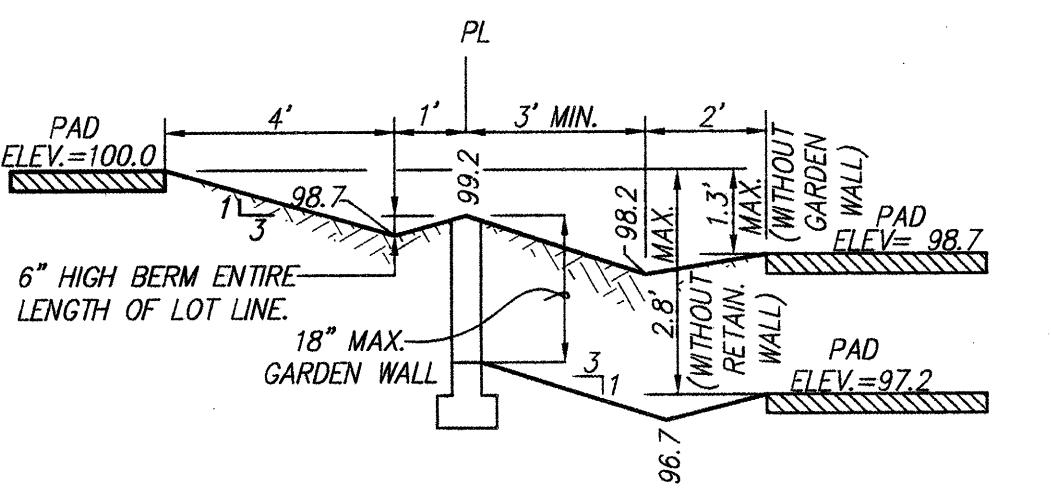
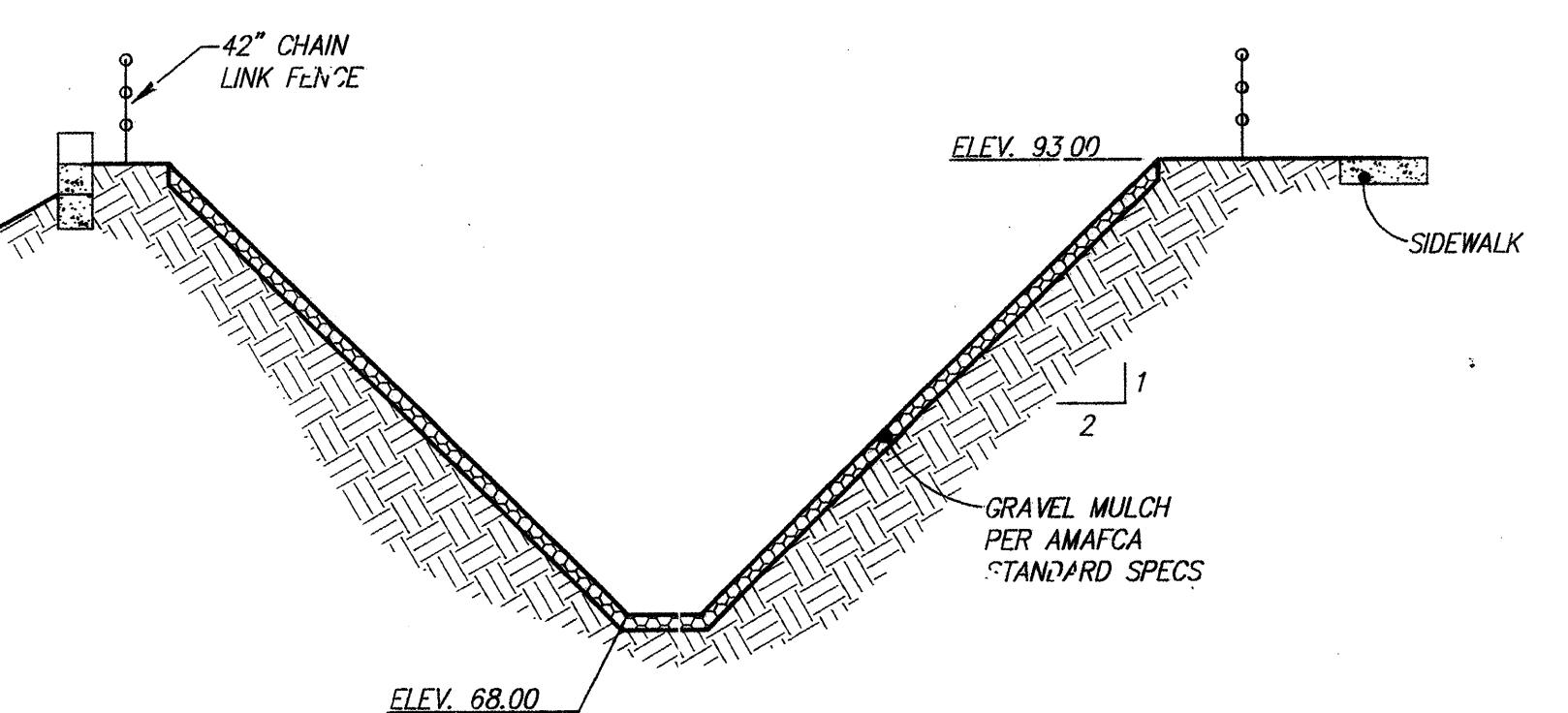
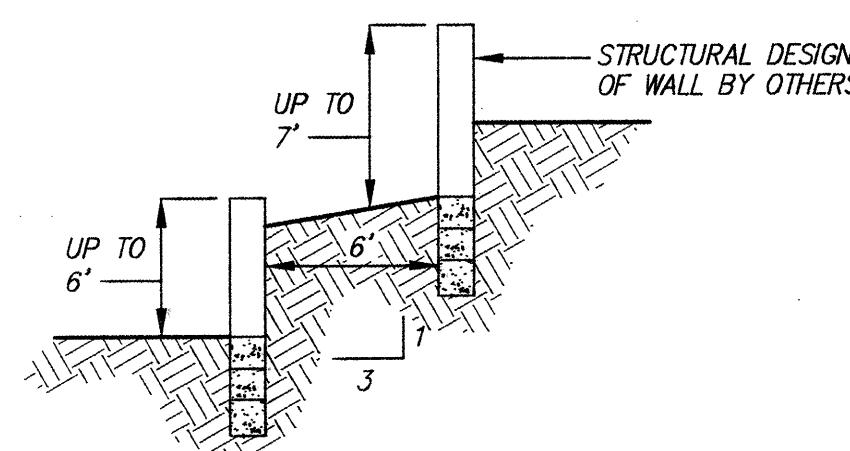
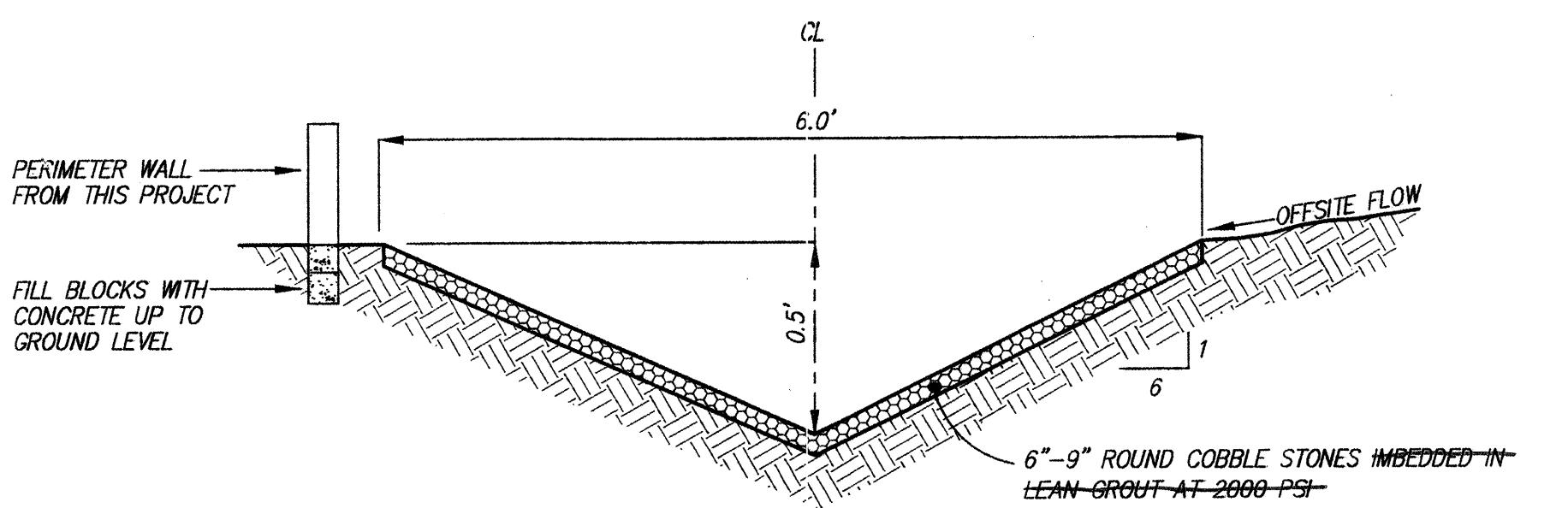
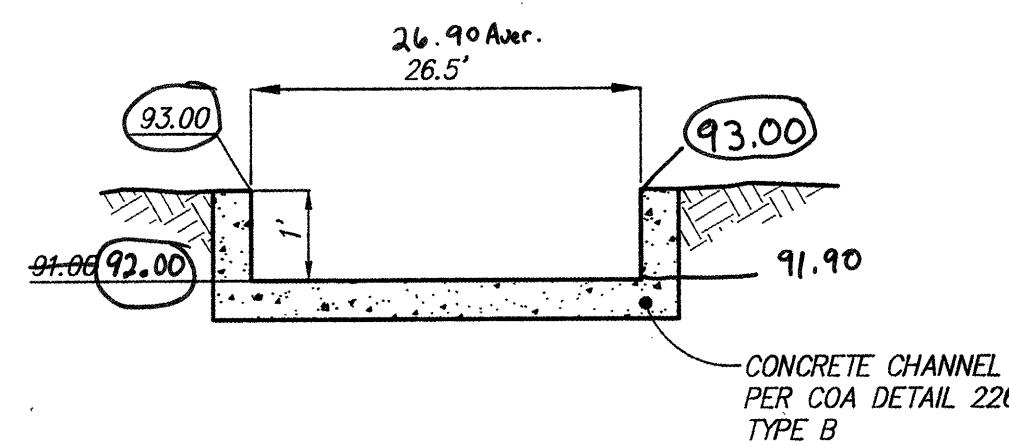
EROSION CONTROL BERM DETAIL
N.T.S.

A01038SFH/PLANS/A01038-GD50/10-16-02/ACH

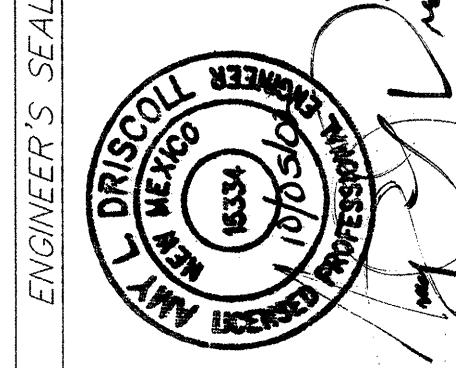
CONTRACTOR	AS BUILT INFORMATION
WORK BY	TOTAL UTILITIES DATE 4/03
STAGED BY	FIELD DATE 7/03
ACCESSED BY	AS-BUILT DATE 7/03
VERIFIED BY	AS-BUILT DATE 7/03
RECORDED BY	MICRO-FILM INFORMATION DATE
NO.	NO.

ENGINEER'S SEAL

DHRISCOLL MEXICO INC. LICENSED PROFESSIONAL ENGINEERS



AS BUILT INFORMATION	
CONTRACTOR	TOOK MEASURES
STAKED BY	DATE 2/13
INSPECTORS BY	ACCEPTANCE BY
DRAWINGS BY	DATE 7/13
DRAWINGS CORRECTED BY MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	



dhng 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: RESERVE @ FOUR HILLS
GRADING & DRAINAGE DETAILS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE
FOR INFORMATION ONLY		MO./DAY/YR. MO./DAY/YR.

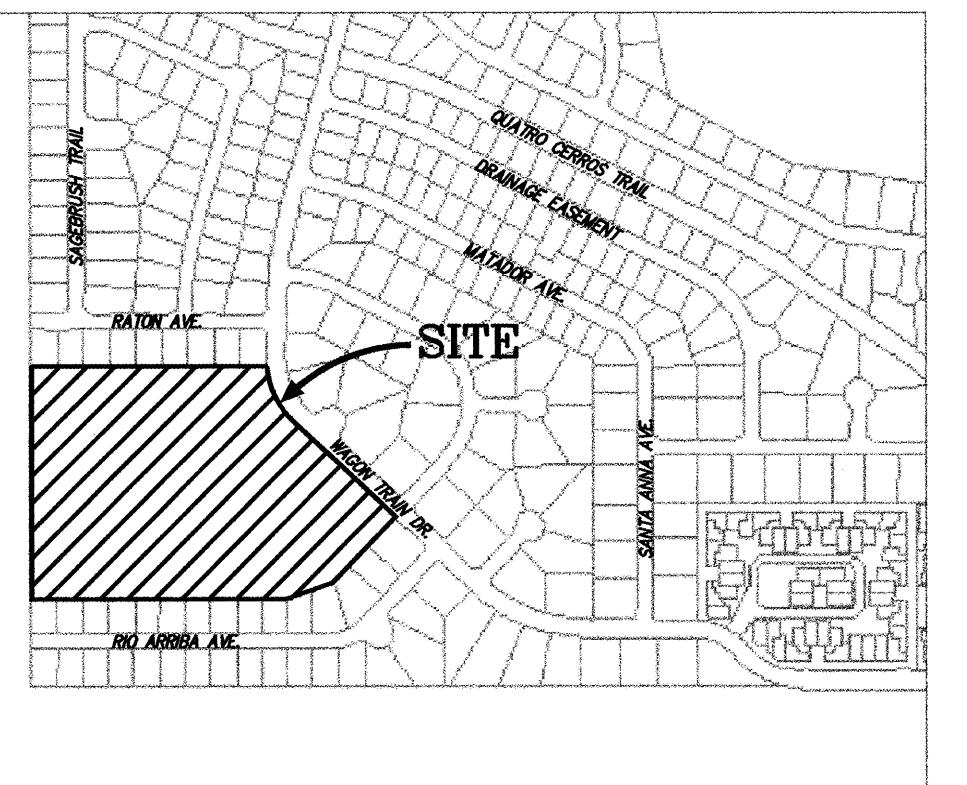
NOTES

1. ALL SIDEWALKS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2430.
2. ALL 10' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2422.
3. ALL 6' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2420.
4. ALL 4' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2421.
5. ALL HANDICAP RAMPS, EXCEPT UNIDIRECTIONAL RAMP ARE PER DETAIL ON THIS SHEET.
6. TRANSITION FROM MOUNTABLE CURB TO STANDARD CURB SHALL BE 10 FEET, PER COA STD DWG 2418.
7. TRANSITION SECTION FROM FULL CROWN TO NO CROWN TO BE A MINIMUM OF 50 FEET, PER COA STD DWG 2401.
8. UNIDIRECTIONAL HANDICAP RAMP FOR COA DETAIL 2426.
9. SOIL NOT HAVING THE MINIMUM R - VALUE OF 50 FOR STREETS SHALL BE REMOVED TO A DEPTH OF 2 FEET AND REPLACED, BY THE CONTRACTOR, WITH SUITABLE MATERIAL, OR A PAVEMENT SECTION SHALL BE DESIGNED BY THE CONSULTANT ACCOMMODATING THE EXISTING R - VALUE PER C.O.A. STANDARD SPECIFICATIONS.

CERTIFICATION OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Amy L. Driscoll, NMPE 15334, 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 ACH, Inc., NMPS number 7249, dated 7/1/02.

CERTIFICATION OF SUBSTANTIAL COMPLIANCE ON PLANS



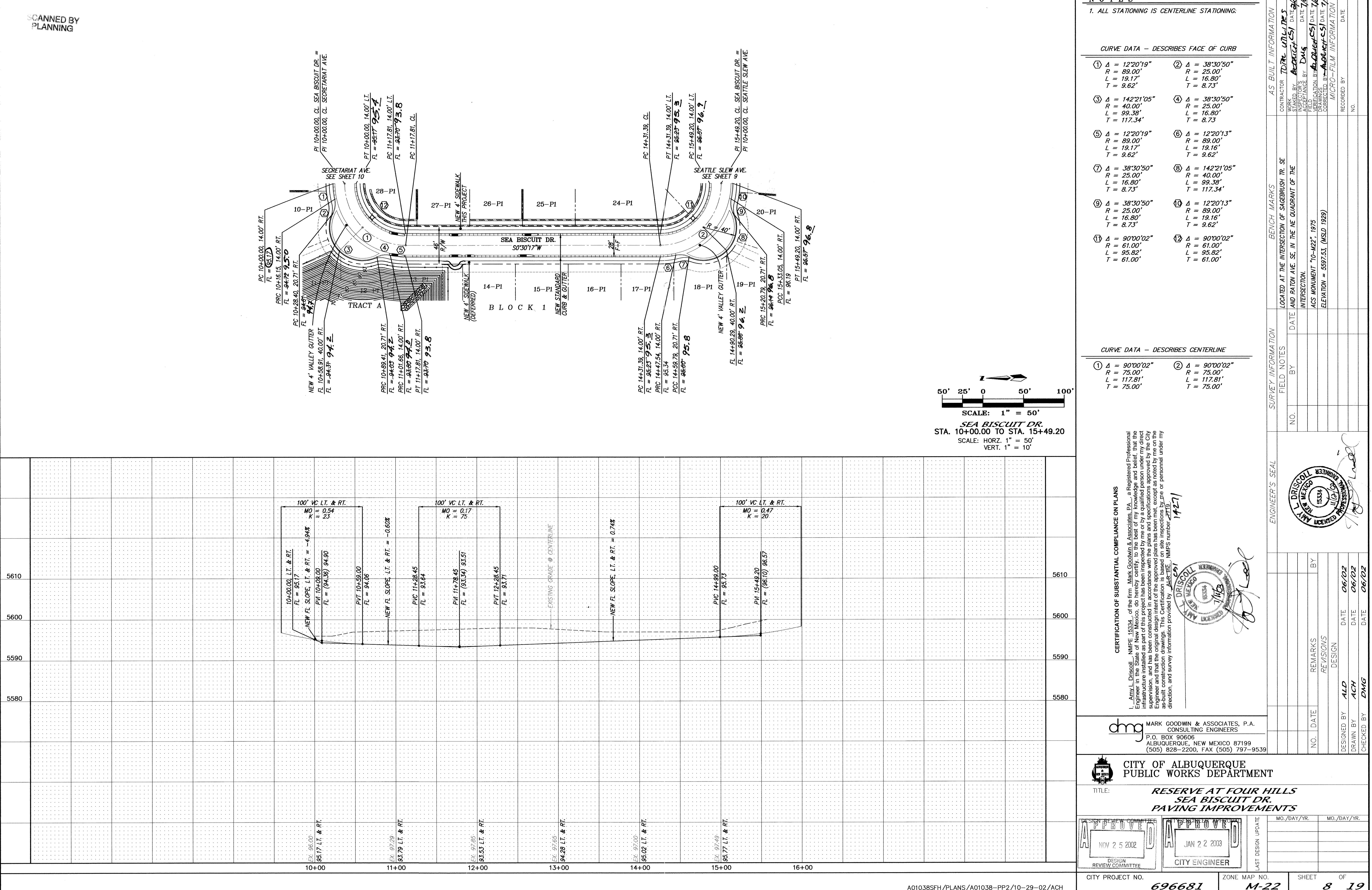
CONTRACTOR	TIME UNITS
WORKED BY	MANHOURS CS DATE 7/23
INSPECTOR	DWG 7/23
FIELD INSPECTION	DATE 7/23
VERIFICATION BY	ARCHITECT CS DATE 7/23
DRAWINGS BY	ARCHITECT CS DATE 7/23
MICRO-FILM INFORMATION	RECORDED BY
	DATE
	NO.

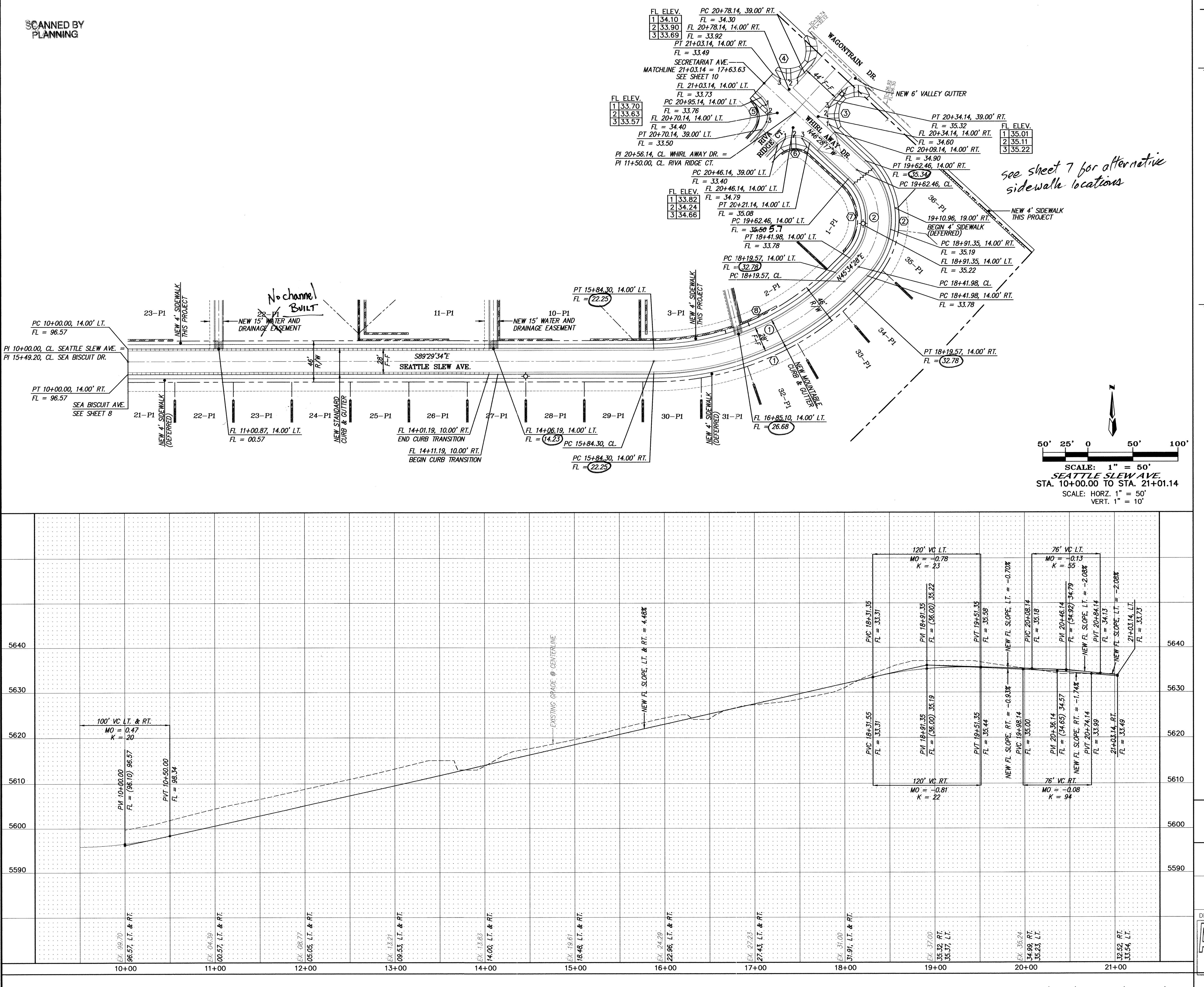
BENCH MARKS
LOCATED AT THE INTERSECTION OF SAGEBRUSH TR. SE
AND RATTAN AVE. IN THE NE QUADRANT OF THE
INTERSECTION.
ACS MONUMENT TO-M22-1975
ELEVATION = 5527.53 (ASCD 722)

SURVEY INFORMATION	
FIELD NOTES	BY
NO.	DATE

ENGINEER'S SEAL

DRISCOLL
WEYER
15334
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO





N O T E S

ALL STATIONING IS CENTERLINE STATIONING.

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WE DATA - DESCRIBES FACE OF CURB

- | | |
|------------------------------|--|
| $\Delta = 44^\circ 55' 58''$ | $\textcircled{2} \quad \Delta = 92^\circ 02' 45''$ |
| $R = 314.00'$ | $R = 89.00'$ |
| $L = 246.25'$ | $L = 142.98'$ |
| $T = 129.85'$ | $T = 92.20'$ |
| $\Delta = 90^\circ 00' 00''$ | $\textcircled{4} \quad \Delta = 90^\circ 00' 00''$ |
| $R = 25.00'$ | $R = 25.00'$ |
| $L = 39.27'$ | $L = 39.27'$ |
| $T = 25.00'$ | $T = 25.00'$ |
| $\Delta = 90^\circ 00' 00''$ | $\textcircled{6} \quad \Delta = 90^\circ 00' 00''$ |
| $R = 25.00'$ | $R = 25.00'$ |
| $L = 39.27'$ | $L = 39.27'$ |
| $T = 25.00'$ | $T = 25.00'$ |
| $\Delta = 92^\circ 02' 45''$ | $\textcircled{8} \quad \Delta = 44^\circ 55' 58''$ |
| $R = 61.00'$ | $R = 286.00'$ |
| $L = 98.00'$ | $L = 224.29'$ |
| $T = 63.19'$ | $T = 117.17'$ |

VE DATA - DESCRIBES CENTERLINE

- | | |
|---|---|
| $\Delta = 44^\circ 55' 58''$
$R = 300.00'$
$L = 235.27'$
$T = 122.90'$ | $\textcircled{2} \quad \Delta = 92^\circ 02' 45''$
$R = 75.00'$
$L = 120.49'$
$T = 77.70'$ |
|---|---|

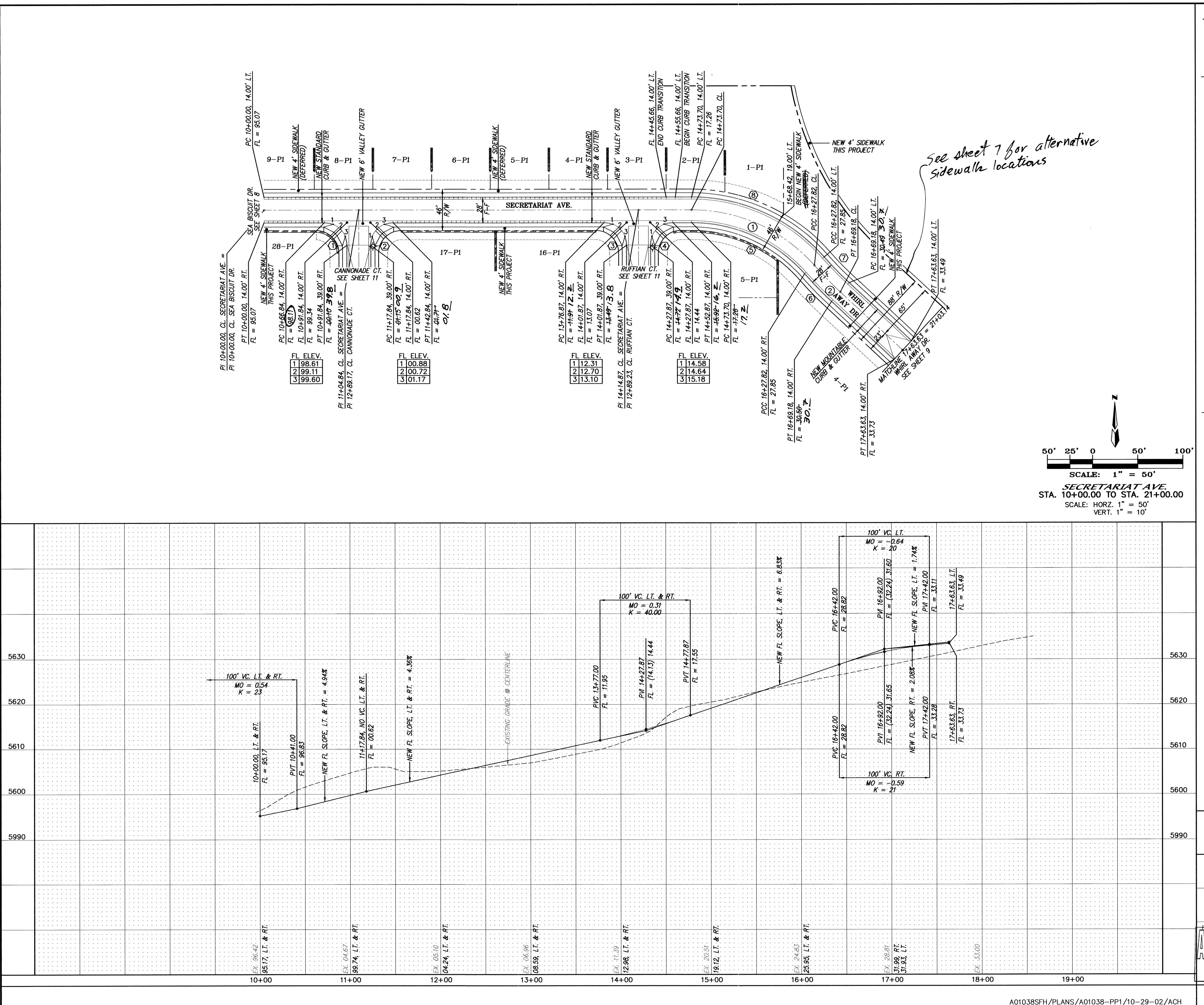
ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
				LOCATED AT THE INTERSECTION OF SAGEBRUSH TR. SE AND RATON AVE. SE, IN THE NE QUADRANT OF THE INTERSECTION.		CONTRACTOR TOTAL UNDERTAKES	
		FIELD NOTES		WORK STAKED BY	DATE <u>2/03</u>	INSPECTOR'S ACCEPTANCE BY	DATE <u>2/03</u>
NO.	BY	BY	DATE	BY	DATE	FIELD VERIFICATION BY	DATE <u>2/03</u>
REMARKS	BY					DRAWINGS CORRECTED BY	DATE <u>2/03</u>
REVISIONS						MICRO-FILM INFORMATION	
DESIGN						RECORDED BY	DATE
OLD	DATE	<u>06/02</u>				NO.	
ACH	DATE	<u>06/02</u>					
DMG	DATE	<u>06/02</u>					

[Handwritten signatures and initials over the bottom right corner]

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT**

**RESERVE AT FOUR HILLS
SEATTLE SLEW AVE.
PAVING IMPROVEMENTS**

NEW COMMITTEE APPROVED 25 2002 SIGN COMMITTEE	CITY ENGINEER APPROVAL APPROVED JAN 22 2003 CITY ENGINEER	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
JECT NO. 636681	ZONE MAP NO. 11-33		SHEET OF 8 10	



NOTE S		AS BUILT INFORMATION	
1. ALL STATIONING IS CENTERLINE STATIONING.			
CONTRACTOR		BENCH MARKS	
WORK PERFORMED	DATE 7/26/03	LOCATED AT THE INTERSECTION OF SAGEBRUSH TR. SE	DATE 7/26/03
FIELD SURVEY	DATE 7/26/03	AND RATIONALE IN THE NE QUADRANT OF THE	DATE 7/26/03
ACCESSION BY DMG	DATE 7/26/03	INTERSECTION.	DATE 7/26/03
FIELD SURVEY	DATE 7/26/03	ACS MONUMENT "70-4122", 1975	DATE 7/26/03
VERIFICATION BY MICRO-FILM	DATE 7/26/03	ELEVATION = 2527.53 (MSL 1929)	DATE 7/26/03
CORRECTED BY MICRO-FILM	DATE 7/26/03	RECORDED BY NO.	DATE 7/26/03

CERTIFICATION OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Amy L. Driscoll, NMEP 1534, 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 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 drawings. This Certification is based on site inspections by me or personnel under my direction, and survey information provided by me. NMPS Number: 74271

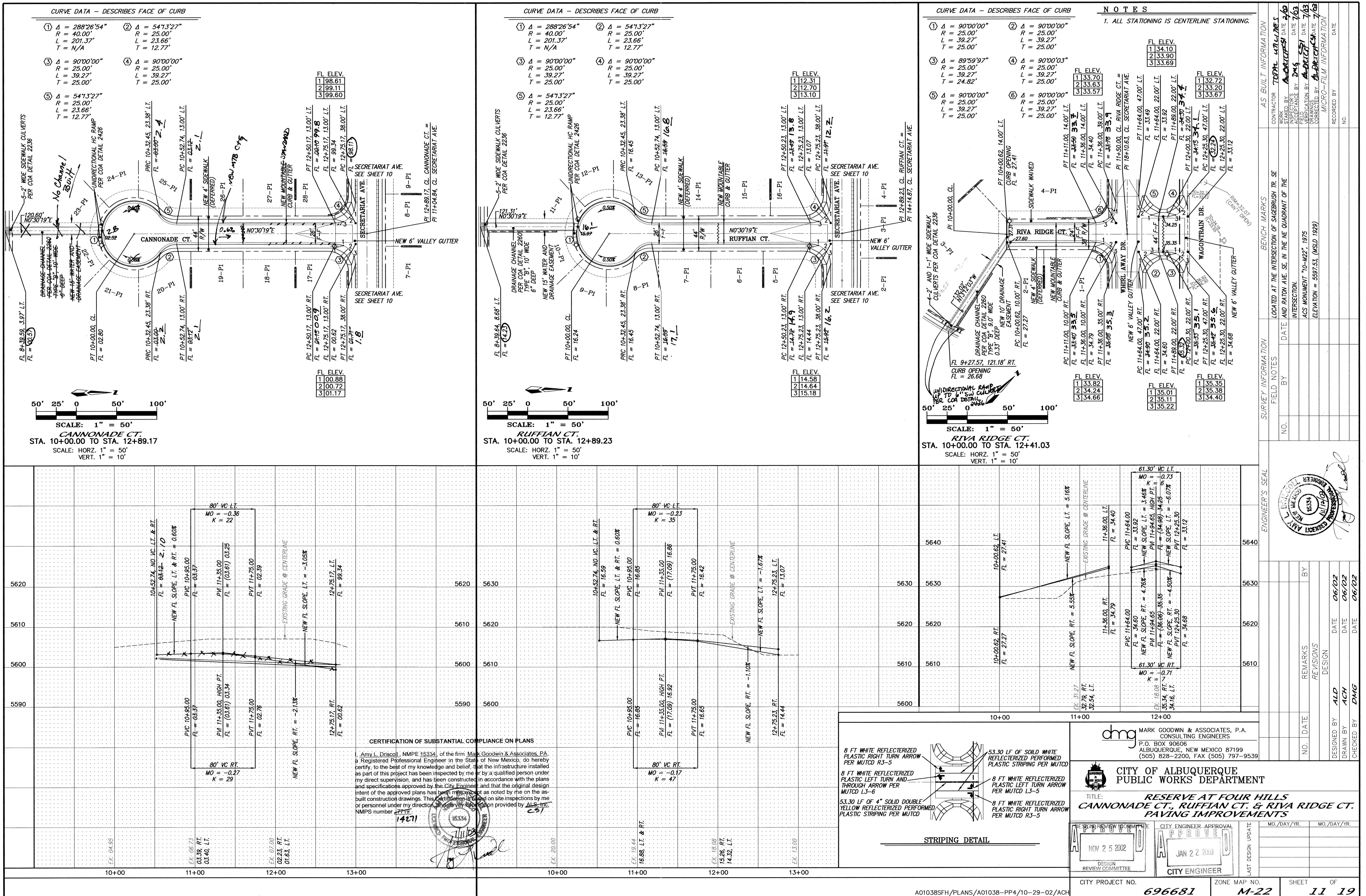
DESIGNER'S SEAL
dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

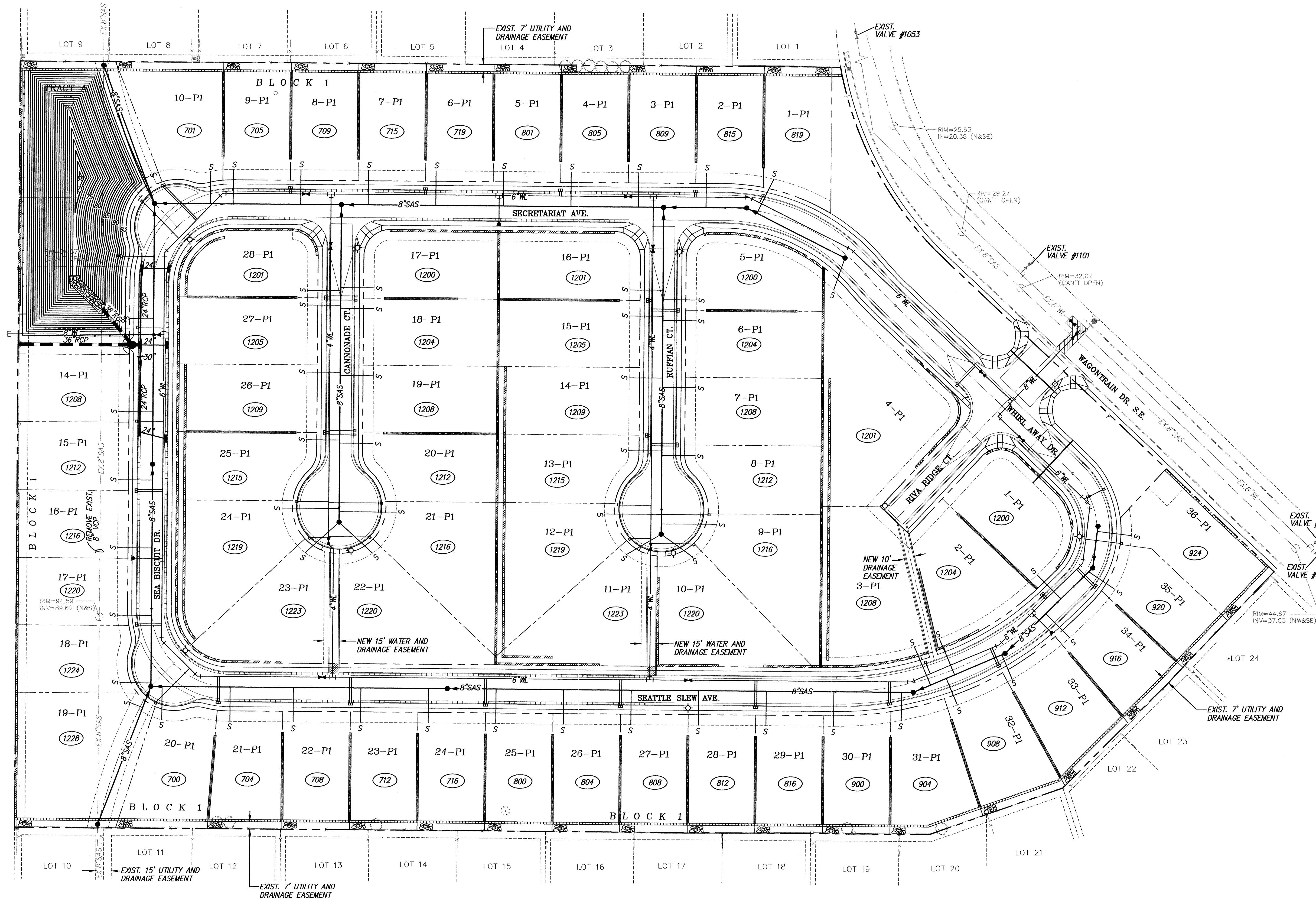
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT

RESERVE AT FOUR HILLS SECRETARIAT AVE. PAVING IMPROVEMENTS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE
NOV 25 2002	JAN 22 2003	MO./DAY/YR.
DESIGN REVIEW COMMITTEE	CITY ENGINEER	MO./DAY/YR.
NO. DATE	REMARKS	NO. DATE
REVISIONS		REVISIONS
DESIGNED BY AHD	DRAWN BY ACH	CHECKED BY DMG
DATE 06/02	DATE 06/02	DATE 06/02

CITY PROJECT NO. A01038SFH/PLANS/A01038-PP1/10-29-02/ACH **ZONE MAP NO.** 696681 **SHEET OF** M-22 **10 19**





WATER SHUT-OFF PLAN

1. CONTRACTOR WILL CONTACT WATER SYSTEMS AT 857-8200,
SEVEN (7) DAYS PRIOR TO NECESSARY SHUT-OFF.
 2. VALVES SHALL ONLY BE OPERATED BY CITY WATER EMPLOYEES.
SHUT VALVES 1053, 1101, 1111 AND 1112 AS SHOWN ON THIS SHEET.
 3. WATER CONNECTION FOR THIS SITE WILL BE NON-PRESSURE CONNECTION
TO THE EXISTING 6" WATERLINE IN WAGONTRAIN DR.

CERTIFICATION OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Amy L. Driscoll, NMPE 15334, 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 infrastructure installed as part of this project has been inspected by me or by a qualified person under my direction, 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 as-built construction drawings. This Certification is based on site inspections by me or personnel under my supervision.

I, Amy L. Driscoll, NMPE 15334, 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

J. S. BELL
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
15334
1/11/03



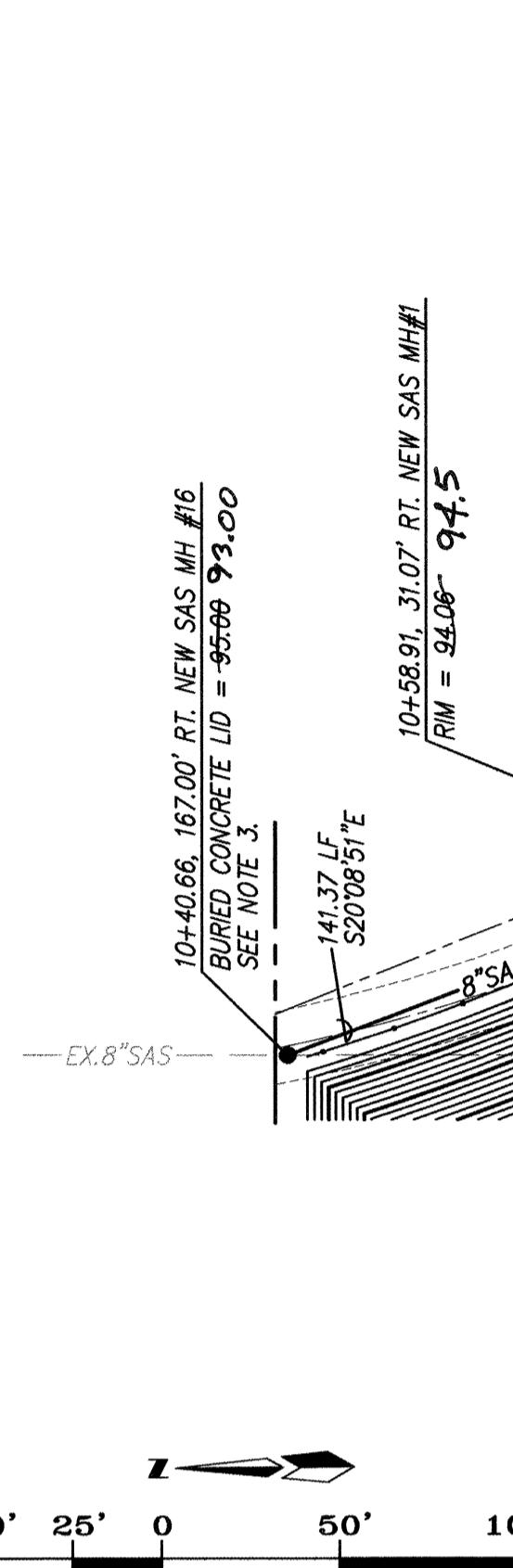
THE CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

**RESERVE AT FOUR HILLS
MASTER UTILITY PLAN**

DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL		MO./DAY/YR.	MO./DAY/YR.
A P P R O V E D NOV 25 2002		A P P R O V E D JAN 22 2003			
DESIGN REVIEW COMMITTEE		CITY ENGINEER		LAST DESIGN UPDATE	
CITY PROJECT NO.		ZONE MAP NO.		SHEET	OF
696681		M-22		12	19

CERTIFICATION OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Amy L. Driscoll, NMPCE 15334, 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 ACH, Inc., NMPS number 7719.



10+00.66 167' RT. NEW SAS MH #16
BURIED CONCRETE LD = \$5,990 93.00
SEE NOTE 3.

10+58.91 31.07' RT. NEW SAS MH #16
RMW = \$2,065 94.5

10+07.16 10+00.00 CL. SEA BISCUIT DR. =
RMW = \$2,085/75' 14.27

MATCHLINE 10+00.00 = 10+00.00
SEE SHEET 15

PI 10+00.00, CL. SEA BISCUIT DR. =
PI 10+00.00, CL. SECRETARIA AVE.

10+08.31 31.07' RT. NEW SAS MH #16
RMW = \$2,065 94.5

10+08.37 14.00' RT.
1 - DBL "C" INLET #6
GRADE = 93.77

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EX. RMW = 94.57±

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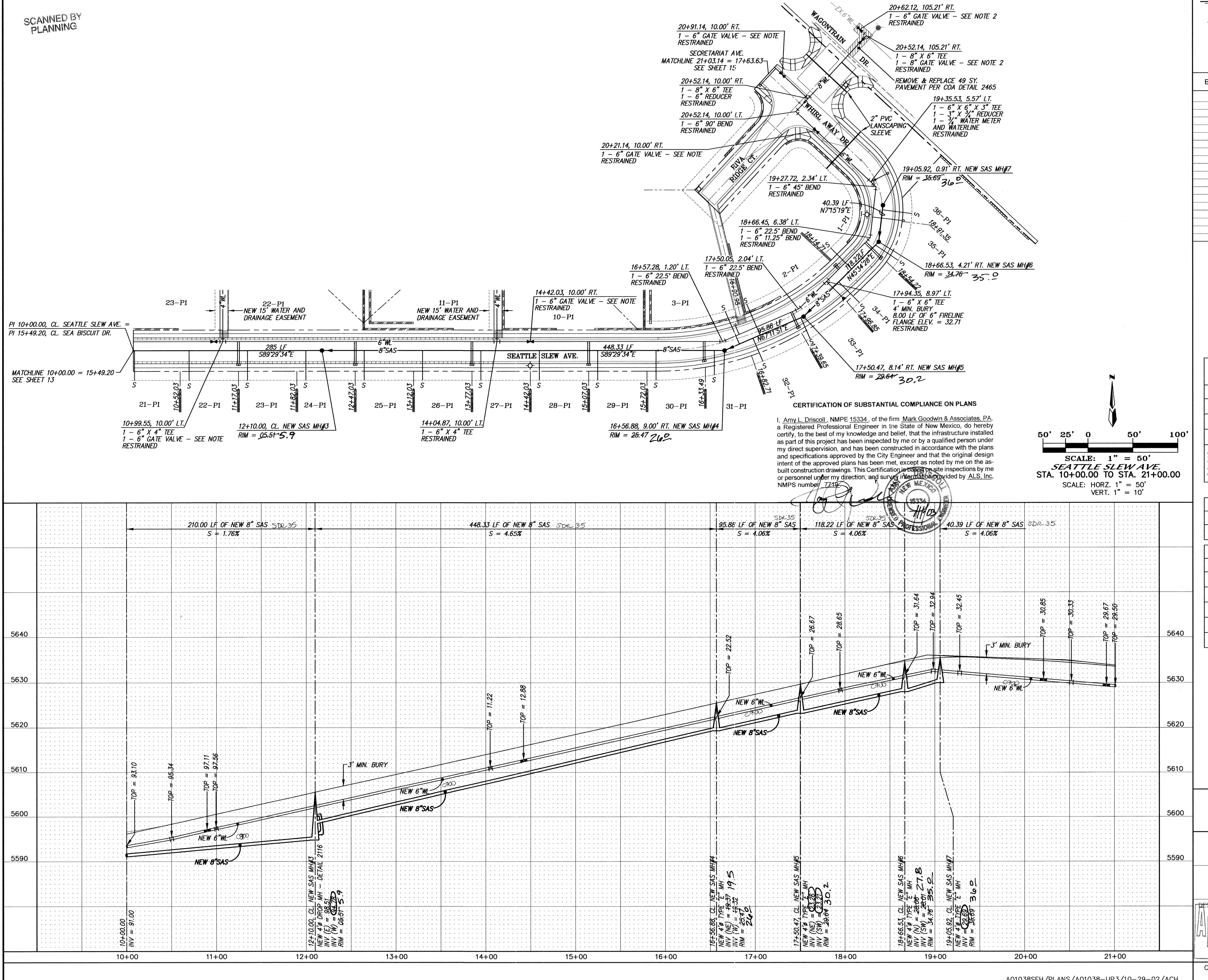
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NOTES																																																																																																																												
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SANITARY SEWER SERVICES																																																																																																																												
<table border="1"> <thead> <tr> <th>BLOCK</th><th>LOT</th><th>STATION AT PUE</th><th>INV. ELEV. AT PUE</th><th>LENGTH AT PUE</th><th>AS BUILT INFORMATION</th></tr> </thead> <tbody> <tr><td>1</td><td>21</td><td>9+98.76</td><td>91.04'</td><td>32.99'</td><td>TRACTOR UTILITIES</td></tr> <tr><td>1</td><td>22</td><td>10+62.03</td><td>93.88'</td><td>33.00'</td><td>STAKED BY <i>A. DRISCOLL</i> DATE 10/23/02</td></tr> <tr><td>1</td><td>23</td><td>11+27.03</td><td>96.79'</td><td>33.00'</td><td>INSPECTORS BY <i>D. GRIFFIN</i> DATE 10/23/02</td></tr> <tr><td>1</td><td>24</td><td>11+92.03</td><td>99.70'</td><td>33.00'</td><td>FIELD STAKE BY <i>A. DRISCOLL</i> DATE 10/23/02</td></tr> <tr><td>1</td><td>25</td><td>12+57.03</td><td>02.61'</td><td>33.00'</td><td>DRAWINGS CORRECTED BY <i>A. DRISCOLL</i> DATE 10/23/02</td></tr> <tr><td>1</td><td>26</td><td>13+22.03</td><td>05.51'</td><td>33.00'</td><td>MICRO-FILM INFORMATION</td></tr> <tr><td>1</td><td>27</td><td>13+87.03</td><td>08.42'</td><td>33.00'</td><td>RECORDED BY NO.</td></tr> <tr><td>1</td><td>28</td><td>14+52.03</td><td>11.33'</td><td>33.00'</td><td></td></tr> <tr><td>1</td><td>29</td><td>15+17.03</td><td>14.24'</td><td>33.00'</td><td></td></tr> <tr><td>1</td><td>30</td><td>15+82.03</td><td>17.15'</td><td>33.00'</td><td></td></tr> <tr><td>1</td><td>31</td><td>16+41.15</td><td>19.80'</td><td>27.04'</td><td></td></tr> <tr><td>1</td><td>32</td><td>16+91.72</td><td>22.06'</td><td>27.88'</td><td></td></tr> <tr><td>1</td><td>33</td><td>17+48.66</td><td>24.61'</td><td>26.11'</td><td></td></tr> <tr><td>1</td><td>34</td><td>18+05.86</td><td>27.17'</td><td>32.65'</td><td></td></tr> <tr><td>1</td><td>35</td><td>18+60.37</td><td>29.61'</td><td>30.35'</td><td></td></tr> <tr><td>1</td><td>36</td><td>18+98.30</td><td>31.25'</td><td>33.00'</td><td></td></tr> <tr><td>2</td><td>1</td><td>18+24.73</td><td>28.01'</td><td>33.00'</td><td></td></tr> <tr><td>2</td><td>2</td><td>18+97.93</td><td>22.34'</td><td>37.91'</td><td></td></tr> <tr><td>2</td><td>3</td><td>16+69.58</td><td>21.07'</td><td>39.81'</td><td></td></tr> </tbody> </table>					BLOCK	LOT	STATION AT PUE	INV. ELEV. AT PUE	LENGTH AT PUE	AS BUILT INFORMATION	1	21	9+98.76	91.04'	32.99'	TRACTOR UTILITIES	1	22	10+62.03	93.88'	33.00'	STAKED BY <i>A. DRISCOLL</i> DATE 10/23/02	1	23	11+27.03	96.79'	33.00'	INSPECTORS BY <i>D. GRIFFIN</i> DATE 10/23/02	1	24	11+92.03	99.70'	33.00'	FIELD STAKE BY <i>A. DRISCOLL</i> DATE 10/23/02	1	25	12+57.03	02.61'	33.00'	DRAWINGS CORRECTED BY <i>A. DRISCOLL</i> DATE 10/23/02	1	26	13+22.03	05.51'	33.00'	MICRO-FILM INFORMATION	1	27	13+87.03	08.42'	33.00'	RECORDED BY NO.	1	28	14+52.03	11.33'	33.00'		1	29	15+17.03	14.24'	33.00'		1	30	15+82.03	17.15'	33.00'		1	31	16+41.15	19.80'	27.04'		1	32	16+91.72	22.06'	27.88'		1	33	17+48.66	24.61'	26.11'		1	34	18+05.86	27.17'	32.65'		1	35	18+60.37	29.61'	30.35'		1	36	18+98.30	31.25'	33.00'		2	1	18+24.73	28.01'	33.00'		2	2	18+97.93	22.34'	37.91'		2	3	16+69.58	21.07'	39.81'	
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1	22	10+62.03	93.88'	33.00'	STAKED BY <i>A. DRISCOLL</i> DATE 10/23/02																																																																																																																							
1	23	11+27.03	96.79'	33.00'	INSPECTORS BY <i>D. GRIFFIN</i> DATE 10/23/02																																																																																																																							
1	24	11+92.03	99.70'	33.00'	FIELD STAKE BY <i>A. DRISCOLL</i> DATE 10/23/02																																																																																																																							
1	25	12+57.03	02.61'	33.00'	DRAWINGS CORRECTED BY <i>A. DRISCOLL</i> DATE 10/23/02																																																																																																																							
1	26	13+22.03	05.51'	33.00'	MICRO-FILM INFORMATION																																																																																																																							
1	27	13+87.03	08.42'	33.00'	RECORDED BY NO.																																																																																																																							
1	28	14+52.03	11.33'	33.00'																																																																																																																								
1	29	15+17.03	14.24'	33.00'																																																																																																																								
1	30	15+82.03	17.15'	33.00'																																																																																																																								
1	31	16+41.15	19.80'	27.04'																																																																																																																								
1	32	16+91.72	22.06'	27.88'																																																																																																																								
1	33	17+48.66	24.61'	26.11'																																																																																																																								
1	34	18+05.86	27.17'	32.65'																																																																																																																								
1	35	18+60.37	29.61'	30.35'																																																																																																																								
1	36	18+98.30	31.25'	33.00'																																																																																																																								
2	1	18+24.73	28.01'	33.00'																																																																																																																								
2	2	18+97.93	22.34'	37.91'																																																																																																																								
2	3	16+69.58	21.07'	39.81'																																																																																																																								
BEVEL MARKS																																																																																																																												
LOCATED AT THE INTERSECTION OF SAGEBRUSH TR. SE AND RAVEN AVE. SE IN THE NE QUADRANT OF THE INTERSECTION																																																																																																																												
ACS MONUMENT "10-M22", 1975 ELEVATION = 5697.53 (MSLD 1929)																																																																																																																												

RESTRAINED JOINT LENGTHS FOR REDUCERS (FT.)		
PIPE SIZE	LARGE SIDE	SMALL SIDE
10" X 6"	44"	-

RESTRAINED JOINT LENGTH FOR TEES (FT.)		
PIPE SIZE	RUN	BRANCH
8"x8"x8"	13'	3'
8"x8"x6"	7'	5'
6"x8"x8"	2'	10'
6"x6"x6"	10'	2'
6"x6"x4"	4'	7'

A. DRISCOLL
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
LIC#15334

NO. DATE REMARKS

DESIGNED BY *ALD* DRAWN BY *ACH* CHECKED BY *DNG*

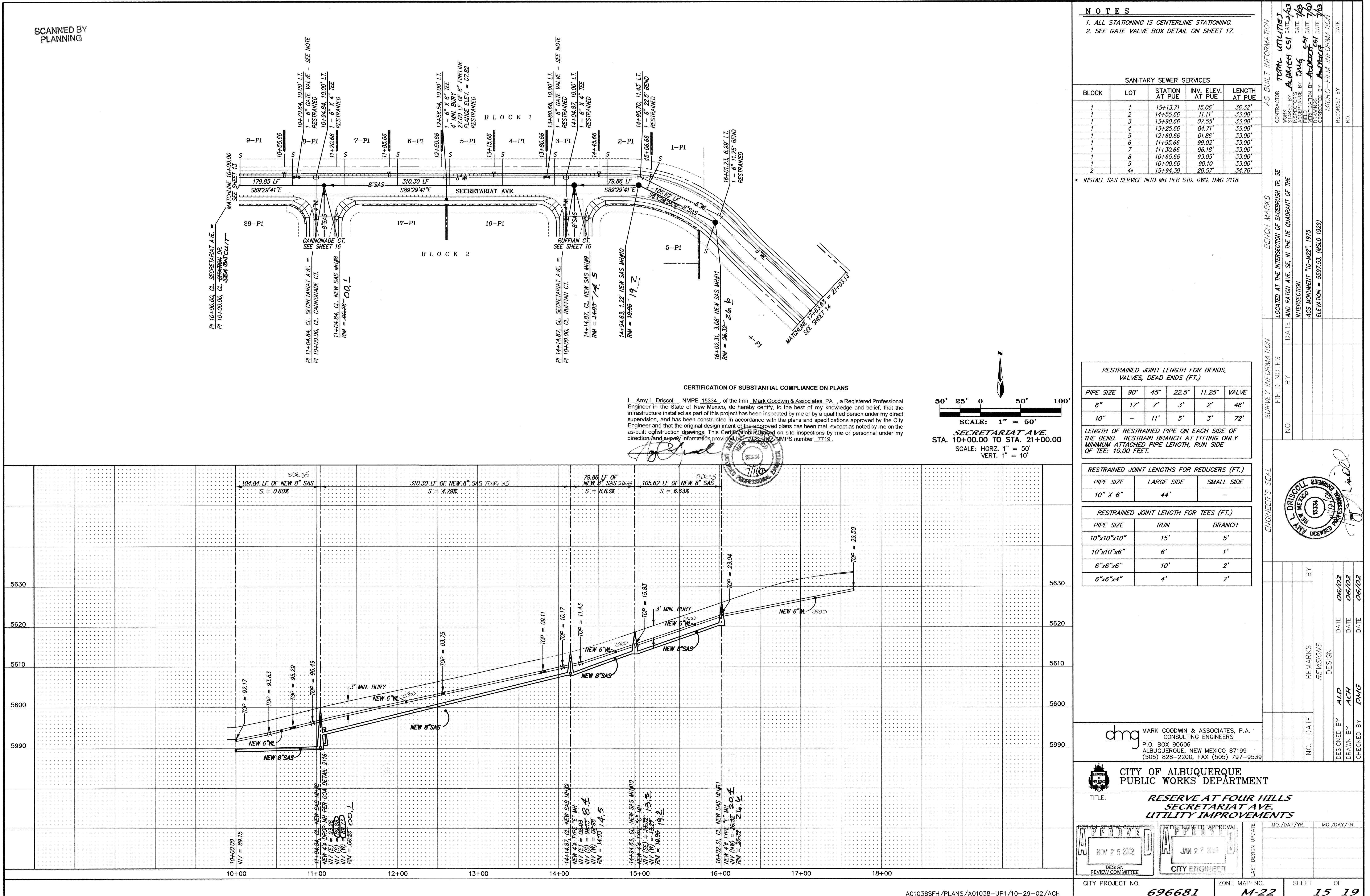
REVISIONS

DATE 06/02

DATE 06/02

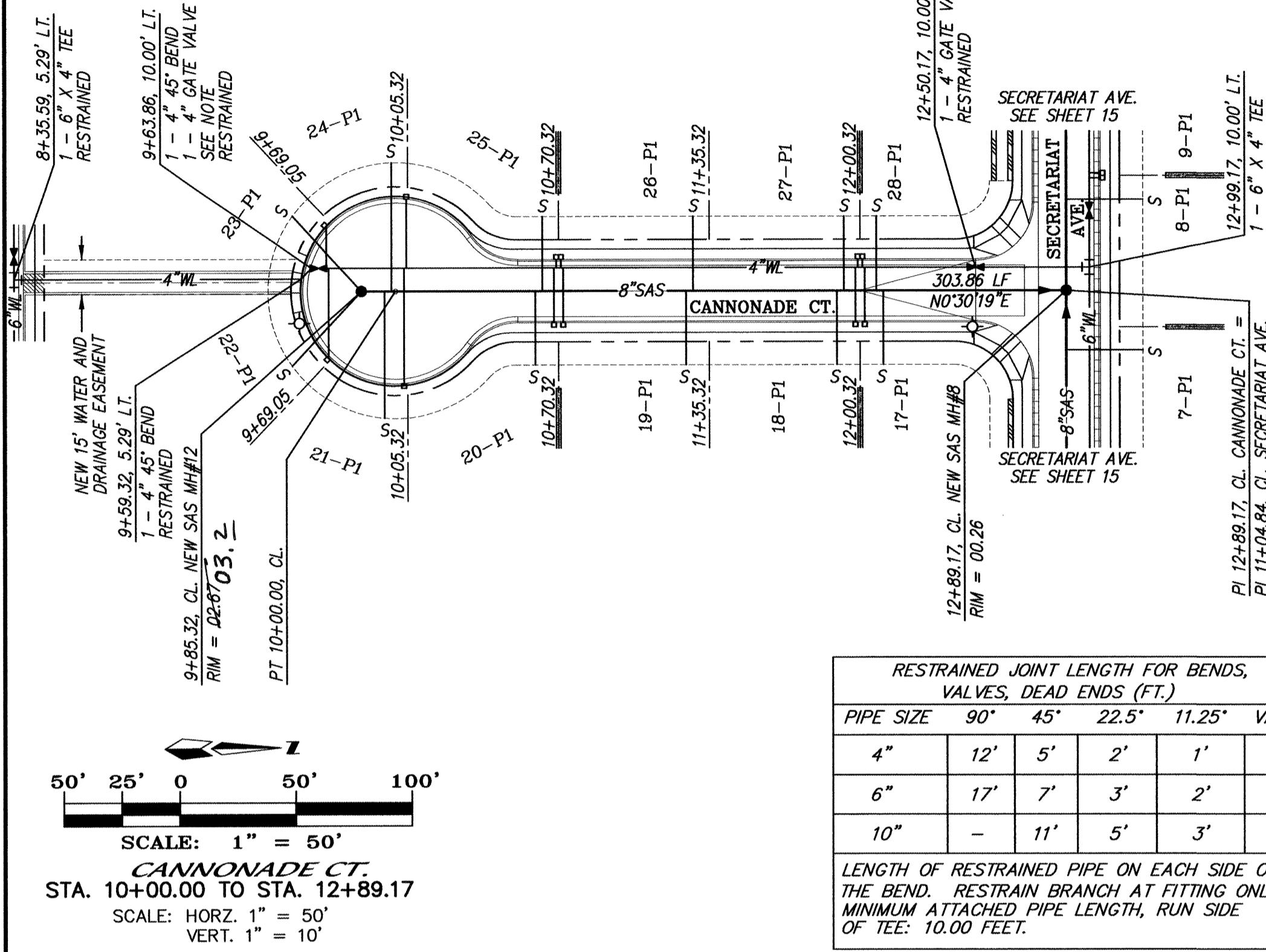
DATE 06/02

MO./DAY/YR.



SANITARY SEWER SERVICES					
BLOCK	LOT	STATION AT PUE	INV. AT PUE	ELEV. AT PUE	LENGTH AT PUE
2	17	12+10.32	96.31'	32.00'	
2	18	11+90.32	96.92'	32.00'	
2	19	11+25.32	98.55'	32.00'	
2	20	10+60.32	98.16'	32.00'	
2	21	9+95.32	97.78'	34.80'	
2	22 *	9+35.35	97.55'	43.99'	
2	23 *	9+55.35	97.55'	43.99'	
2	24	9+98.32	97.80'	54.97'	
2	25	10+63.32	98.18'	32.00'	
2	26	11+28.32	98.57'	32.00'	
2	27	11+93.32	96.83'	32.00'	
2	28	12+07.32	96.41'	32.00'	

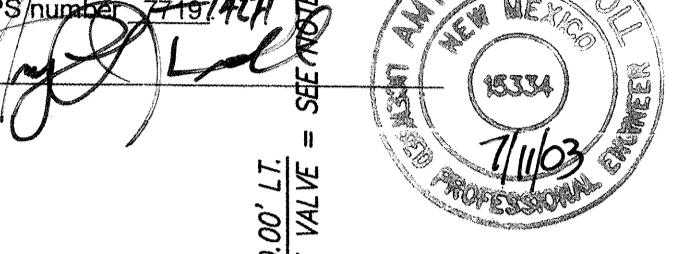
* INSTALL SAS SVC INTO MH PER STD DWG 2118



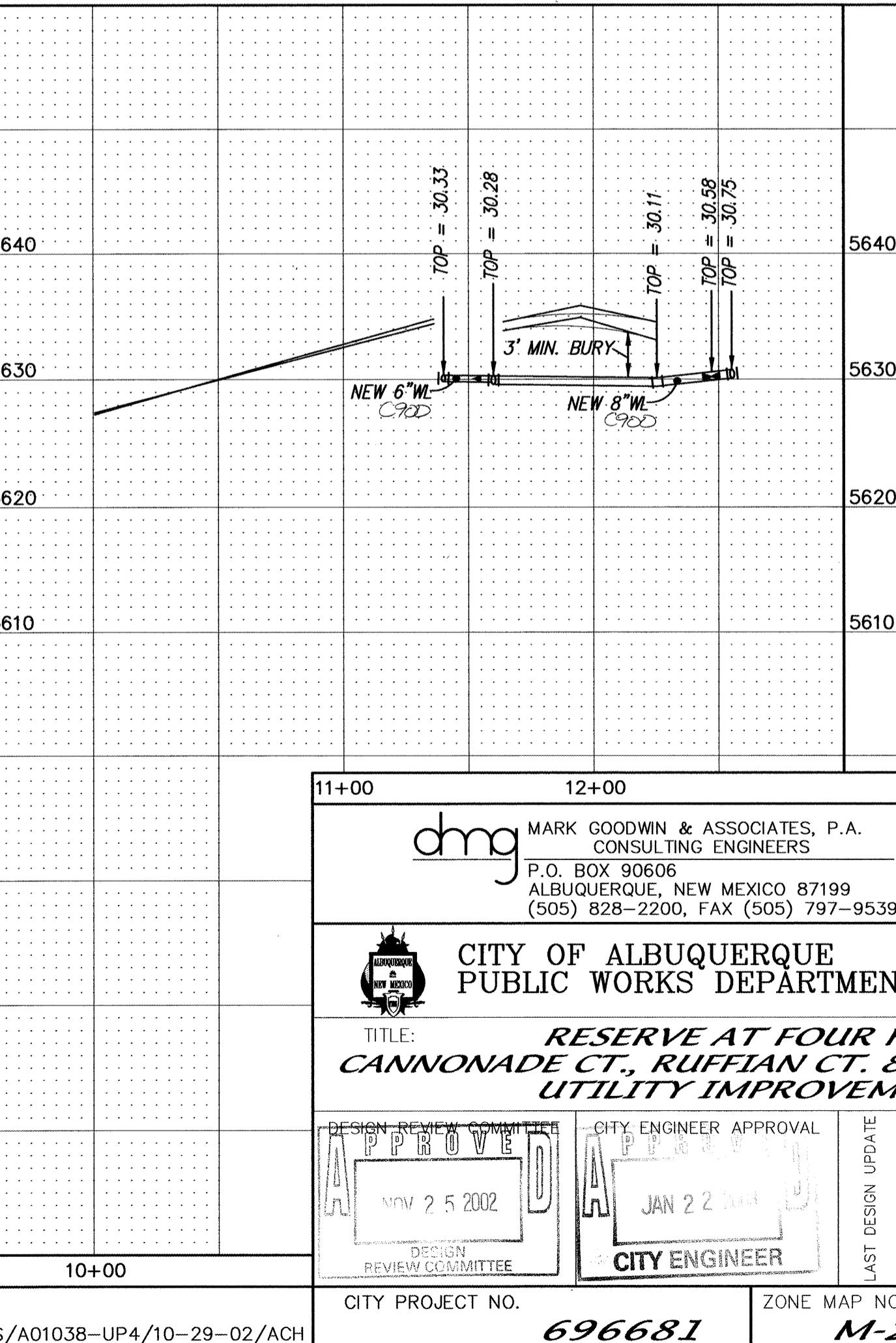
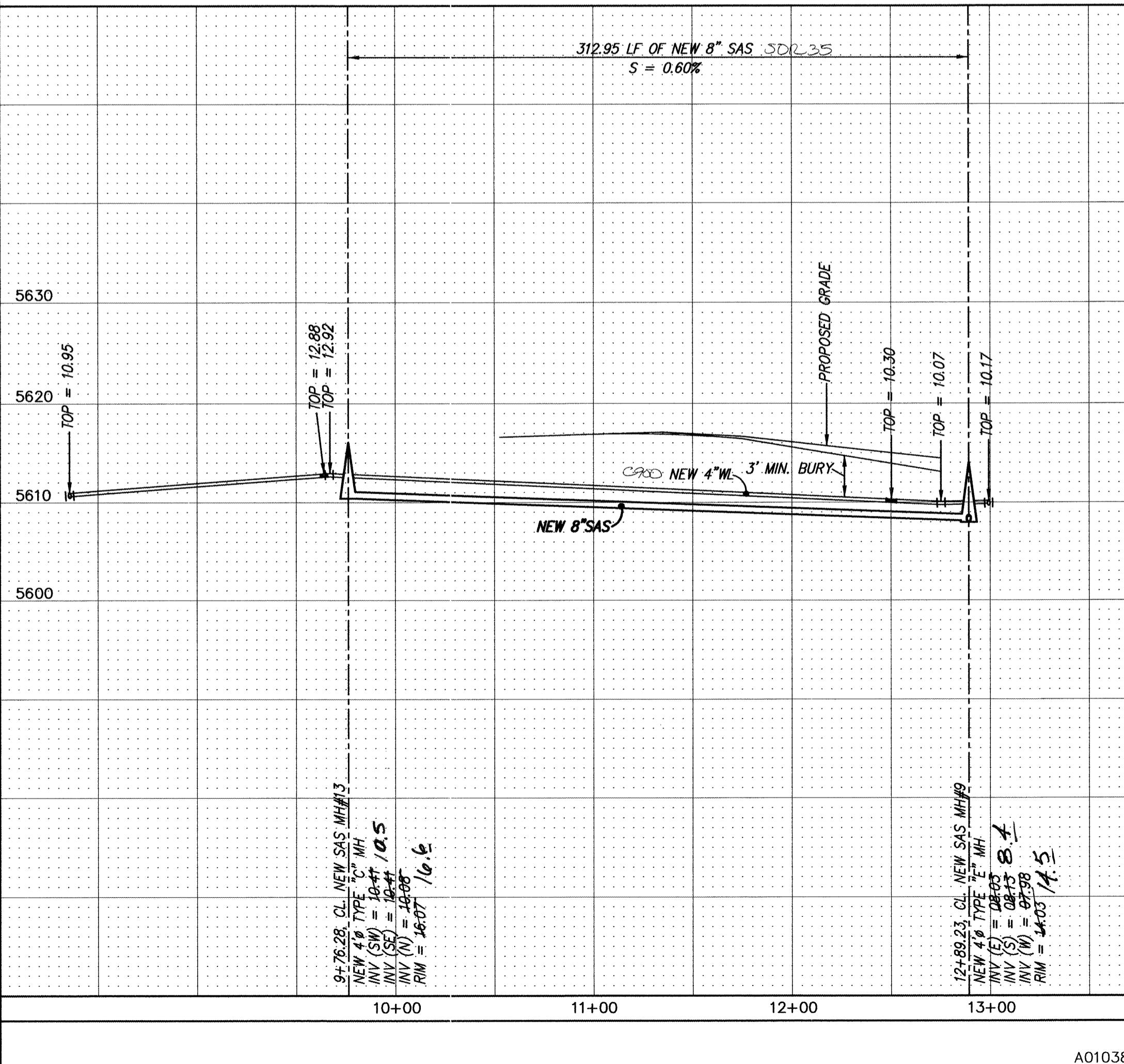
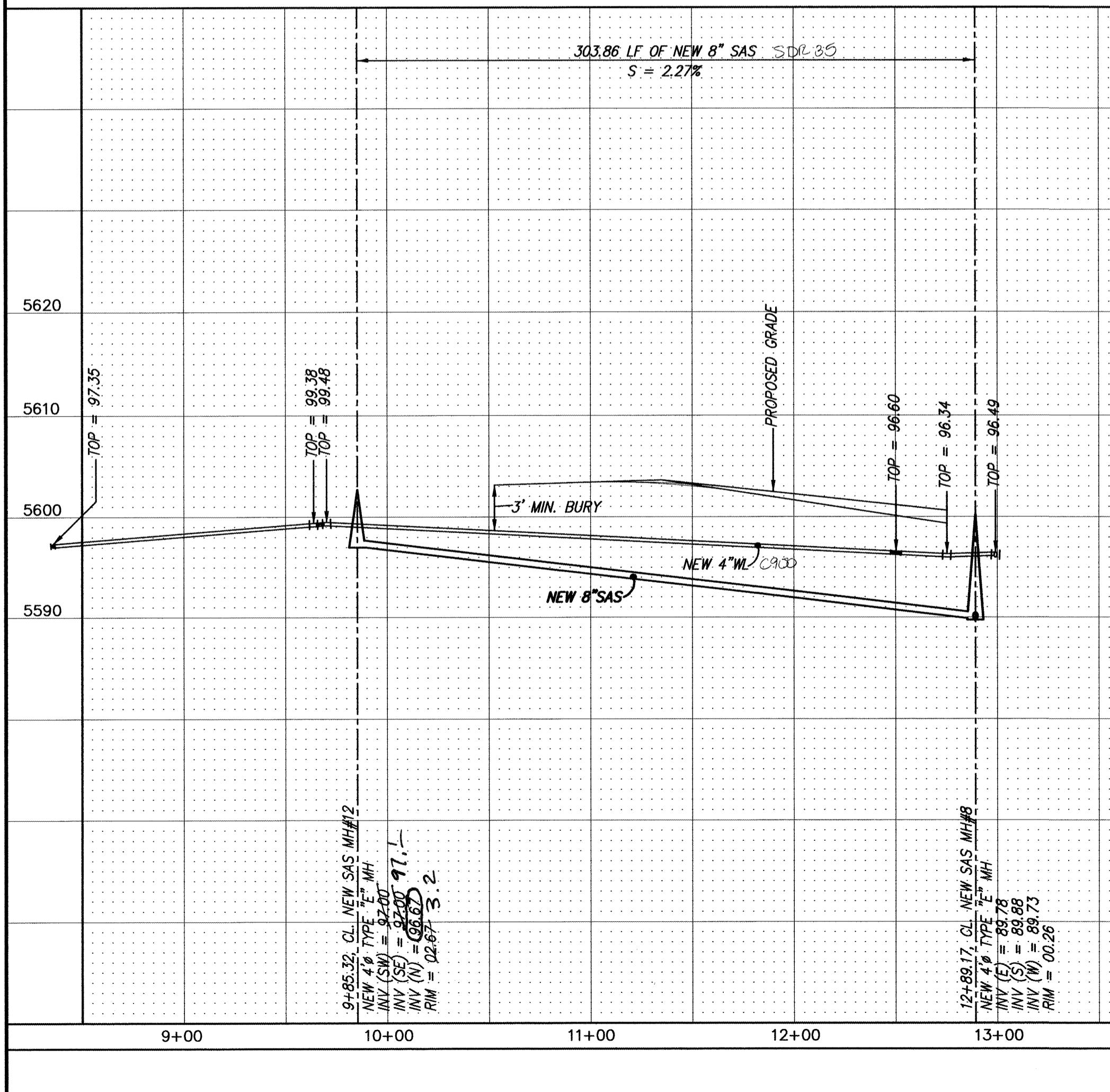
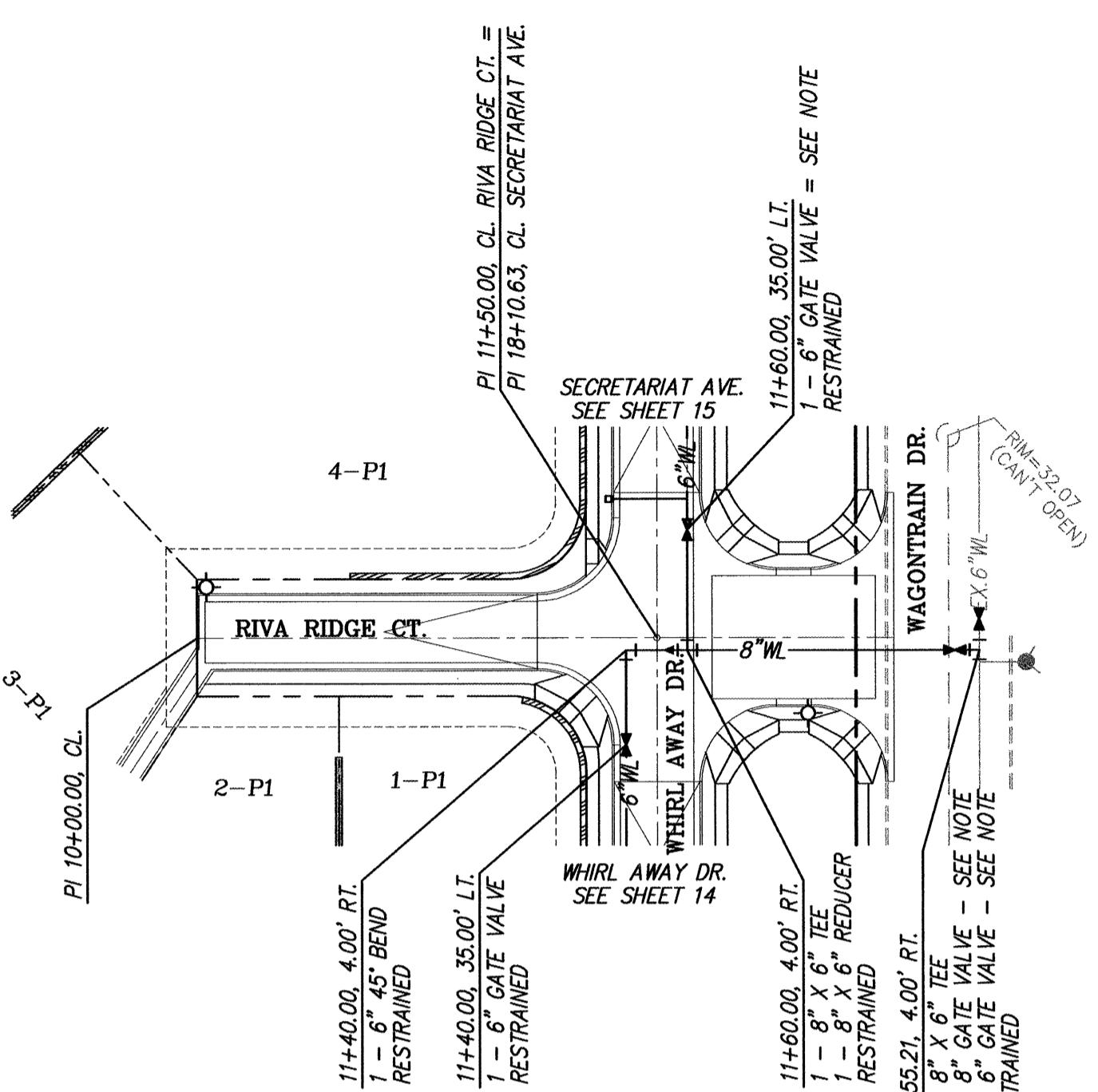
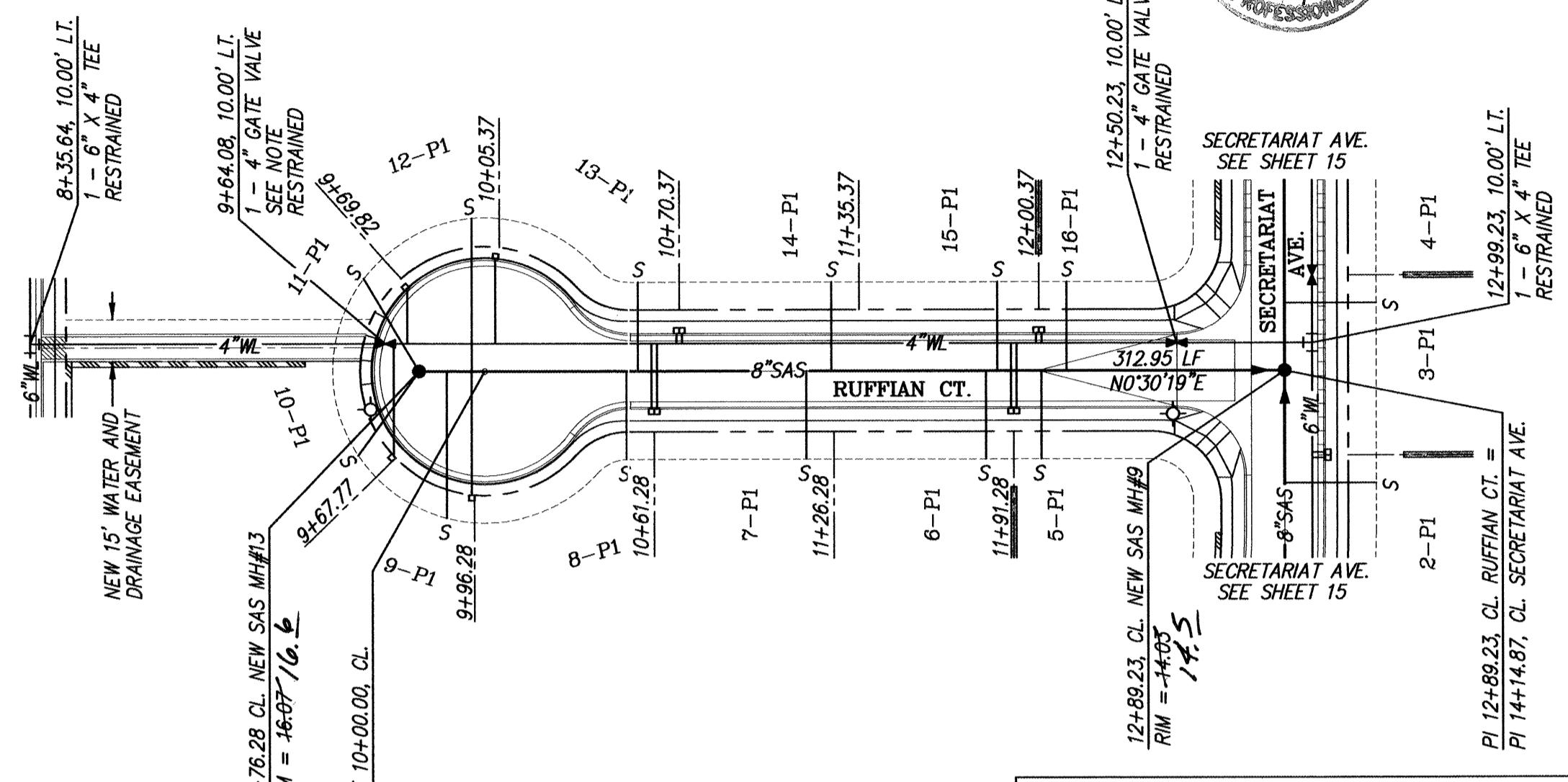
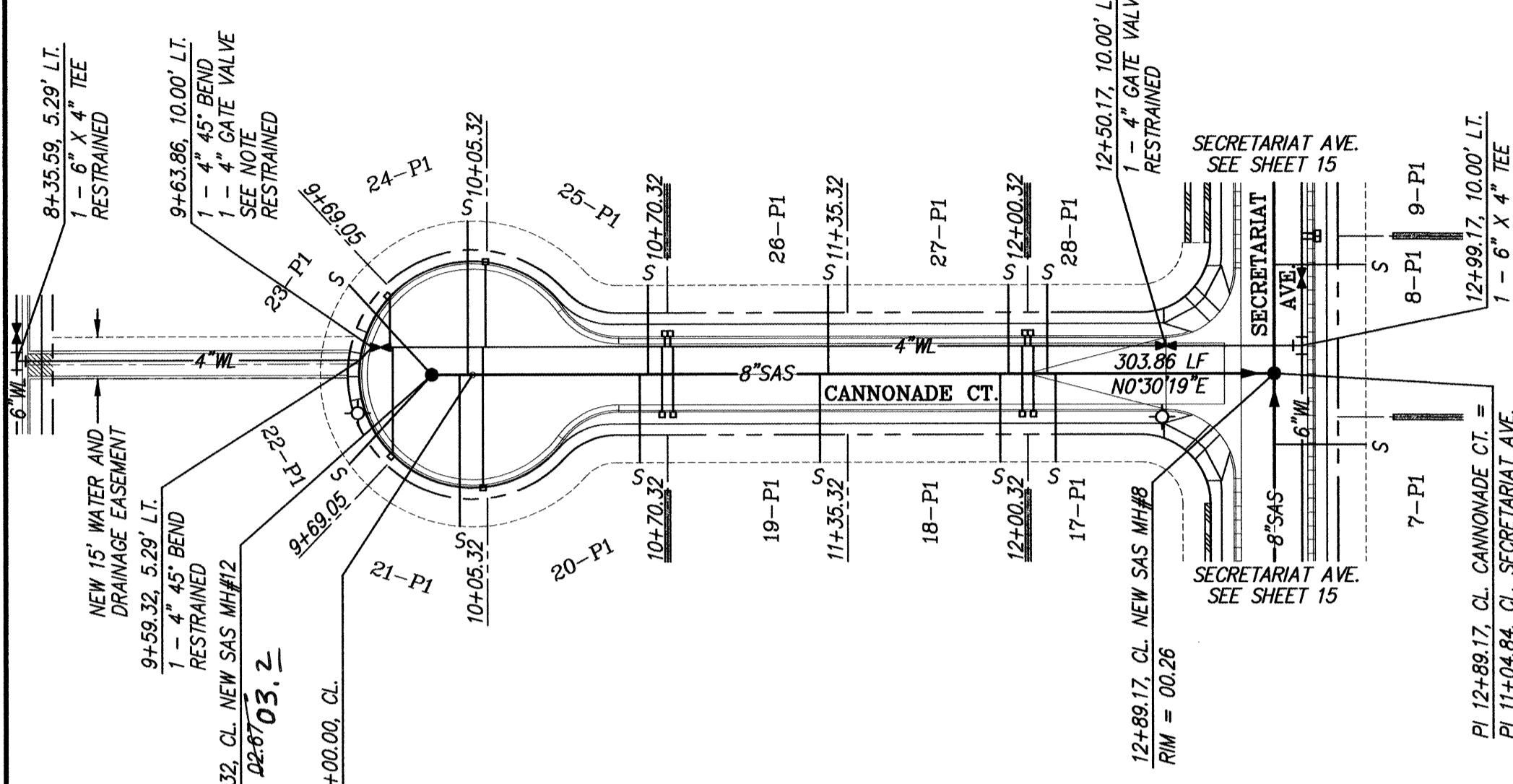
SANITARY SEWER SERVICES					
BLOCK	LOT	STATION AT PUE	INV. AT PUE	ELEV. AT PUE	LENGTH AT PUE
2	5	12+01.28	10.54'	32.00'	
2	6	11+81.28	11.21'	32.00'	
2	7	11+16.28	11.98'	32.00'	
2	8	10+51.28	11.58'	32.00'	
2	9	9+86.28	11.18'	53.26'	
2	10 *	9+54.29	10.99'	37.67'	
2	11 *	9+56.31	10.95'	38.92'	
2	12	9+95.37	11.24'	54.80'	
2	13	10+60.37	11.64'	32.00'	
2	14	11+25.37	12.03'	32.00'	
2	15	11+90.37	10.91'	32.00'	
2	16	12+10.37	10.24'	32.00'	

* INSTALL SAS SVC INTO MH PER STD DWG 2118

CERTIFICATION OF SUBSTANTIAL COMPLIANCE ON PLANS
I, Amy L. Driscoll, NMPE 15334, 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 ALG INC, NMPS number 71163. CS1

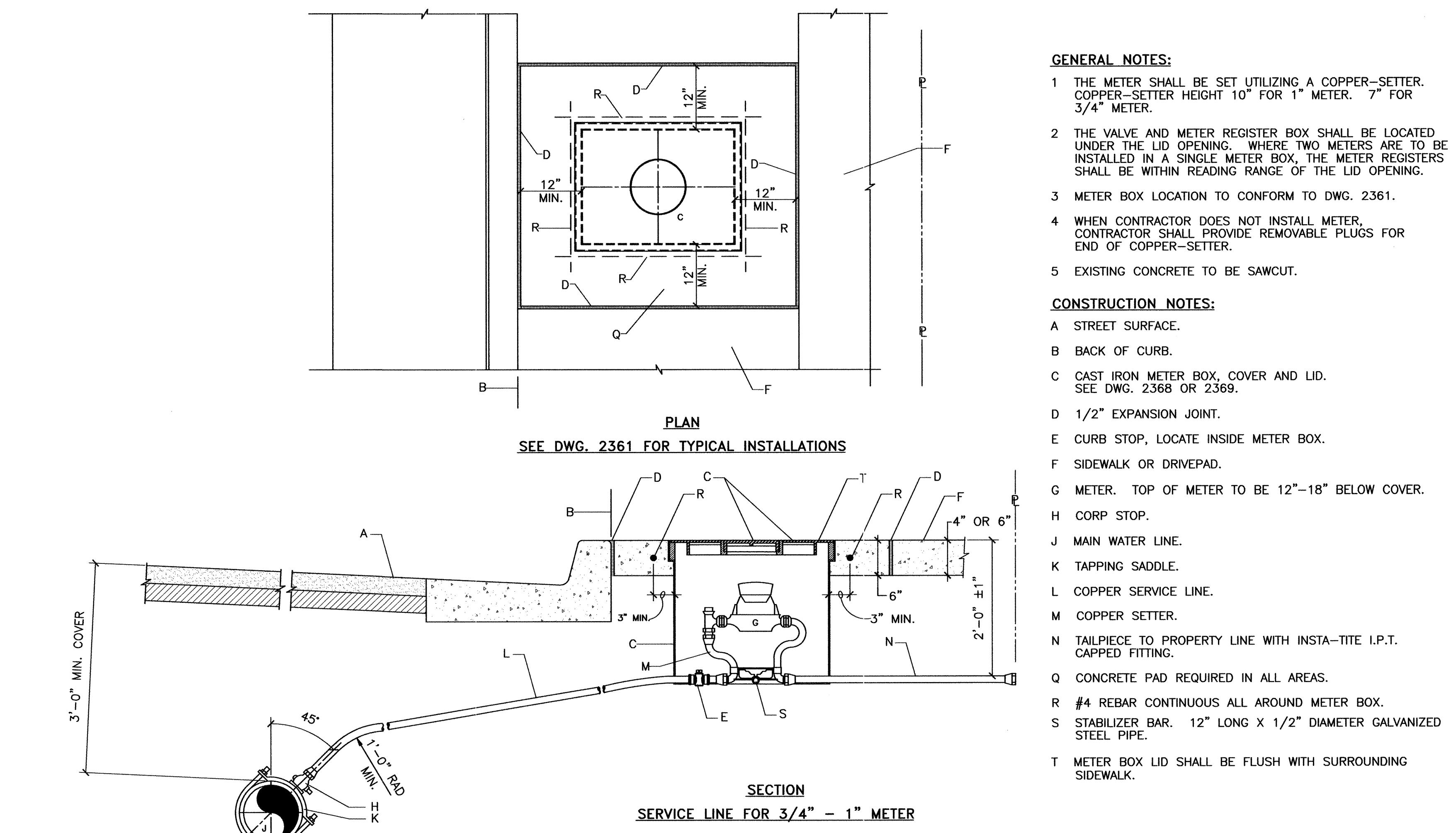
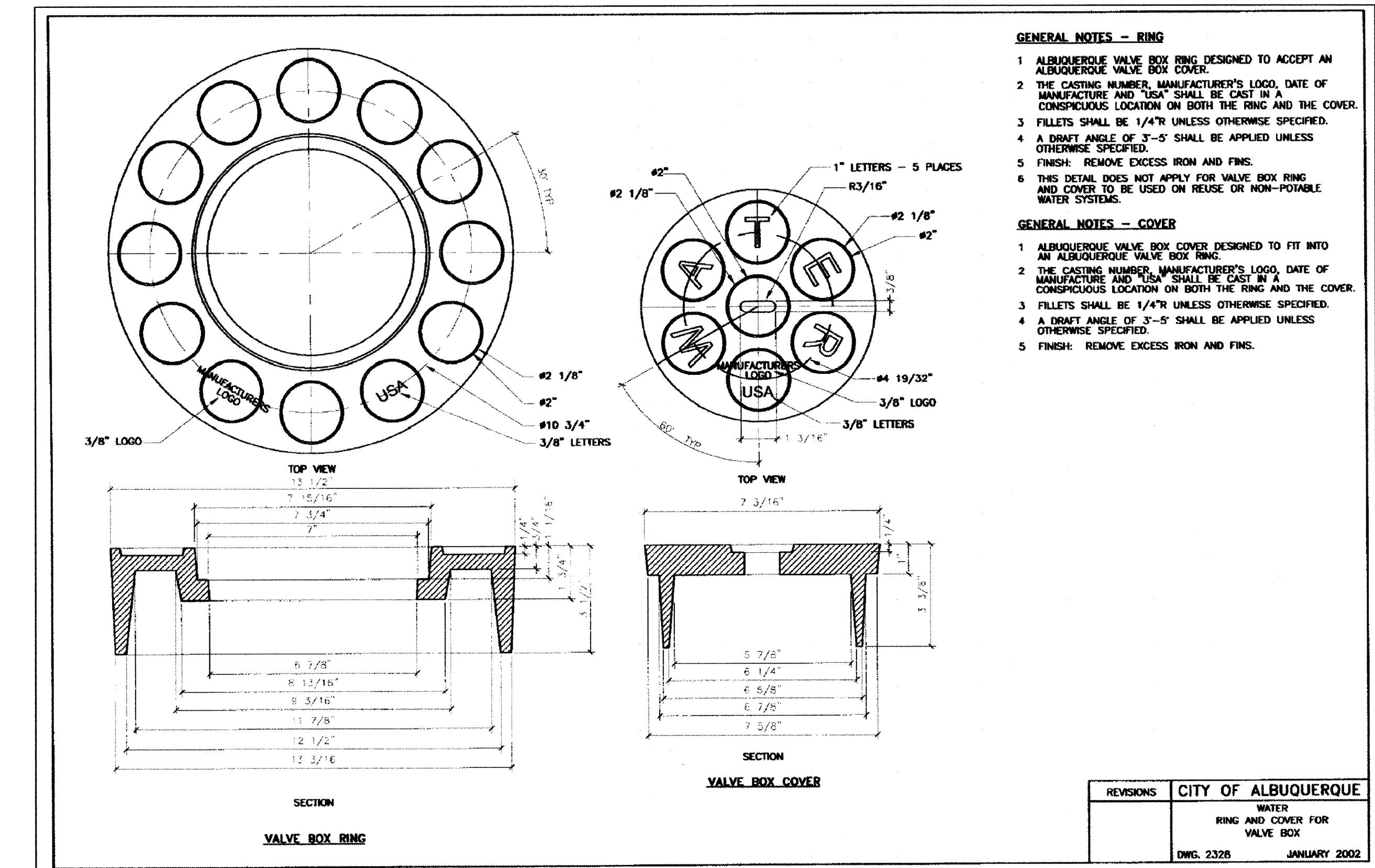
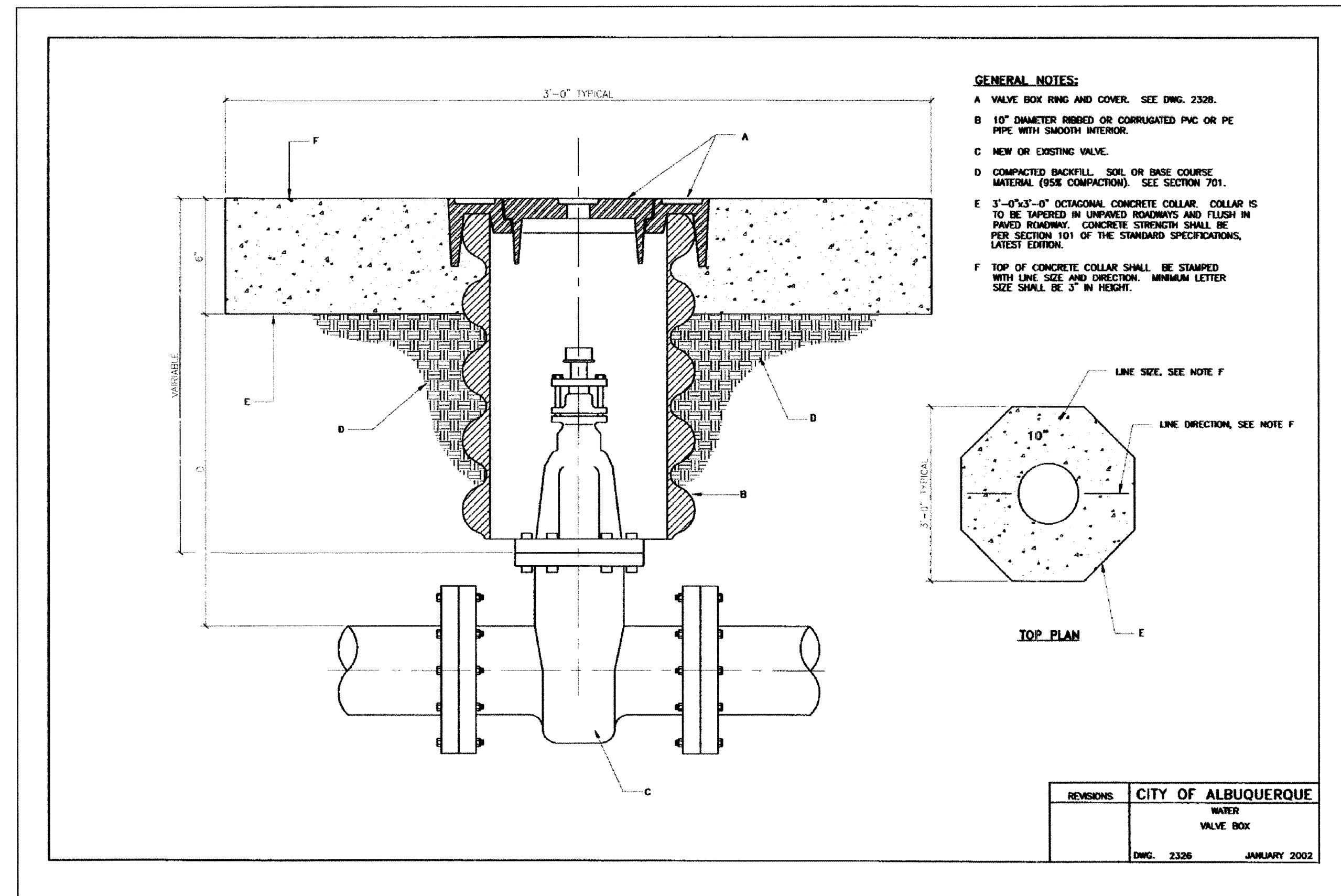


NOTES
1. ALL STATIONING IS CENTERLINE STATIONING.
2. SEE GATE VALVE BOX DETAIL ON SHEET 17.



CONTRACTOR	TO THE CONTRACTORS	AS BUILT INFORMATION
WORK BY	DATE	REDACTED
INSPECTOR	DATE	REDACTED
FIELD DRAWINGS	DATE	REDACTED
ACCS MONUMENT	DATE	REDACTED
DRAWINGS	DATE	REDACTED
MICRO-FILM INFORMATION	DATE	REDACTED
RECORDED BY	NO.	REDACTED

ENGINEER'S SEAL	SURVEY INFORMATION	FIELD NOTES	LOCATED AT THE INTERSECTION OF SAGERISH DR. SE IN THE NE QUADRANT OF THE INTERSECTION.
DRISCOLL, AMY L. M.P.E. 15334	NO.	BY	DATE
DESIGNED BY	ALD	REMARKS	REDACTED
DRAWN BY	ACH	BY	REVISIONS
CHECKED BY	DMG	BY	REVISIONS
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT			
RESERVE AT FOUR HILLS CANNONADE CT., RUFFIAN CT. & RIVA RIDGE CT. UTILITY IMPROVEMENTS			
APPROVED	P	DESIGN REVIEW COMMITTEE	CITY ENGINEER
JAN 2 2002	JAN 2 2002	DESIGN REVIEW COMMITTEE	CITY ENGINEER
LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.	MO./DAY/YR.
CITY PROJECT NO.		ZONE MAP NO.	
696681		M-22	
SHEET OF 16 19			



dwg		MARK GOODWIN & ASSOCIATES, P.A. P.O. BOX 90606 ALBUQUERQUE, NEW MEXICO 87199 (505) 828-2200, FAX (505) 797-9539
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT		
RESERVE AT FOUR HILLS WATER DETAILS		
DESIGNED BY	ALD	DATE 05/02
DRAWN BY	ACH	DATE 05/02
CHECKED BY	DWG	DATE 05/02
TITLE:		
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.
C.O.A. STANDARD	C.O.A. STANDARD	MO./DAY/YR.
CITY PROJECT NO. 696681		ZONE MAP NO. M-22
		SHEET 17 19

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICAADING 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 SEPERATE 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 MEDIUM 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 TRAVELED 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:

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

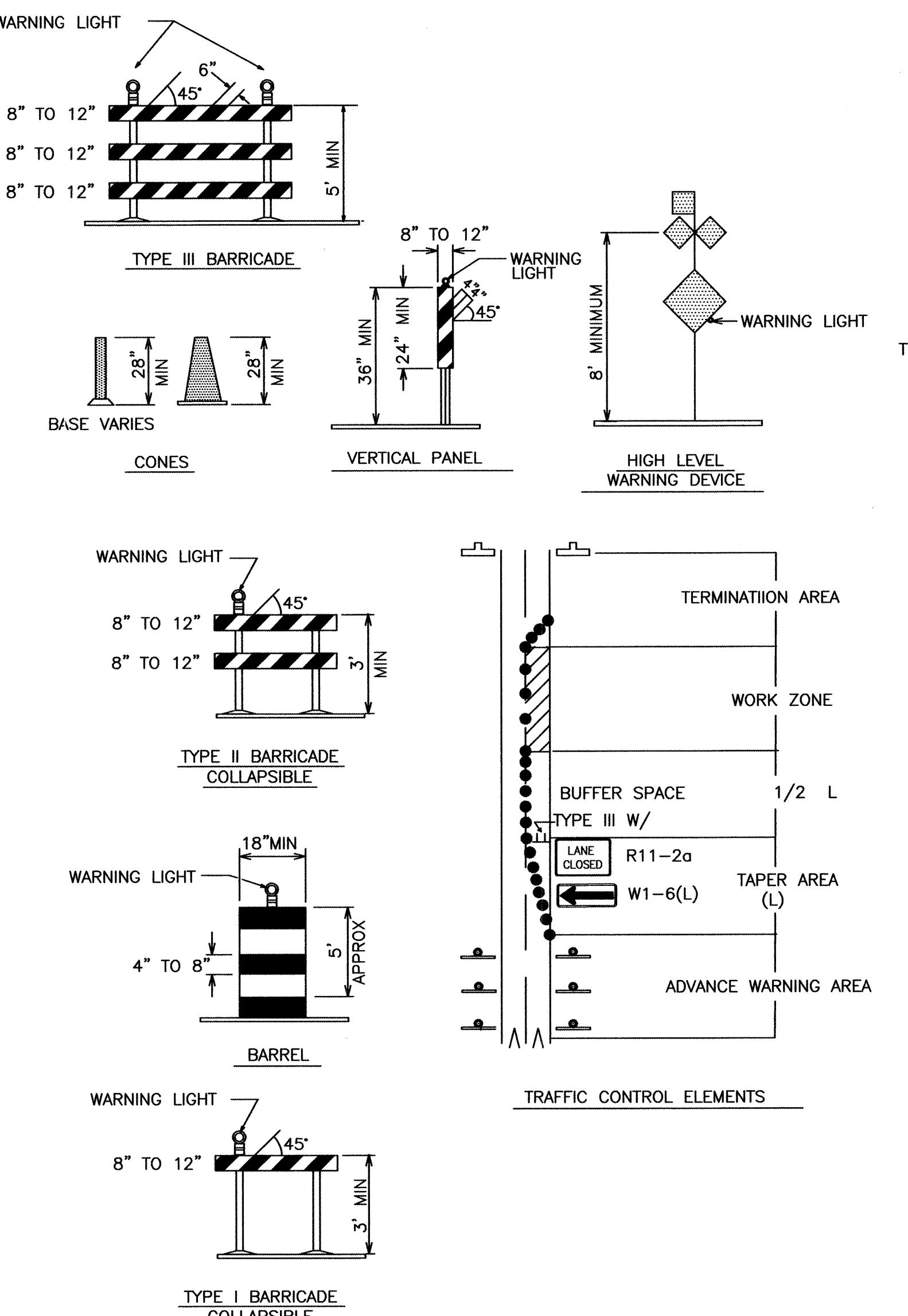
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

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

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

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



LEGEND	
	WORK AREA
•	BARRICADE - TYPE I, TYPE II, OR BARREL
—	BARRICADE - TYPE III
■	VERTICAL PANEL
X	WARNING SIGN
D	DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
<input type="checkbox"/>	FLAGMAN POSITION
S	SPACING BETWEEN BARRICADES - A DISTANCE MEASURED IN FEET EQUAL TO THE STREET LIMIT OF THE STREET
L	TAPER LENGTH - SEE CHART BELOW

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

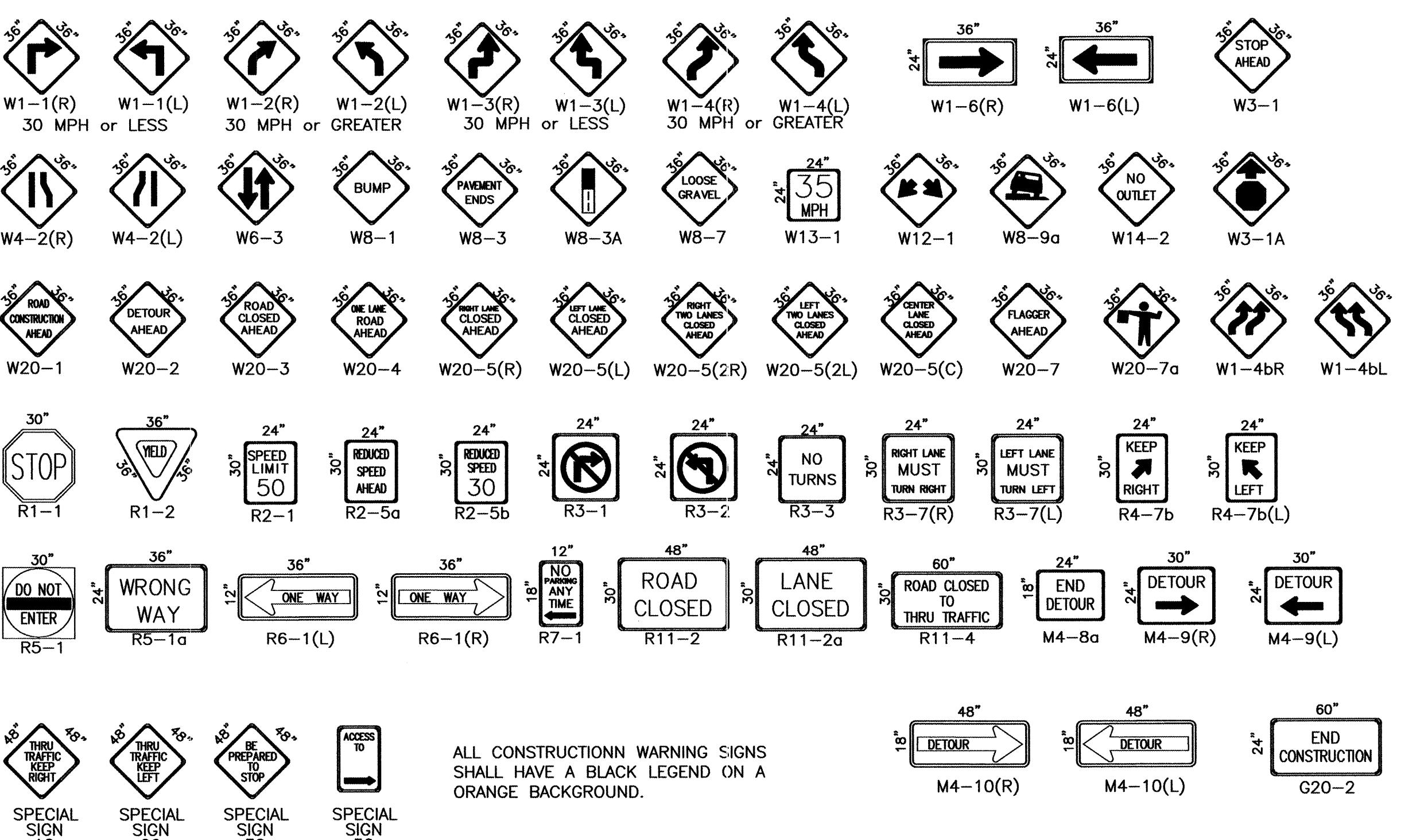
TAPER REQUIREMENT

SPEED LIMIT (MPH)	TAPER LENGTH(L) (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET ALONG TAPER
	10' LANE	11' LANE	12' LANE		
20	70	75	80	5	20
25	105	115	125	6	25
30	150	165	180	7	30
35	205	225	245	8	35
40	270	295	320	9	40
45	450	495	540	13	45
50	500	550	600	13	50
55	550	605	660	13	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	FIELD NOTES	NO.	BY DATE	INTERSECTION	LOCATED AT THE INTERSECTION OF SUBDIVISION, SECTION, AND RAVEN AVE. SE, IN THE NE QUADRANT OF THE
			0-20	25-30	30-35	40-45	50-60
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					

SIGN FACE DETAILS

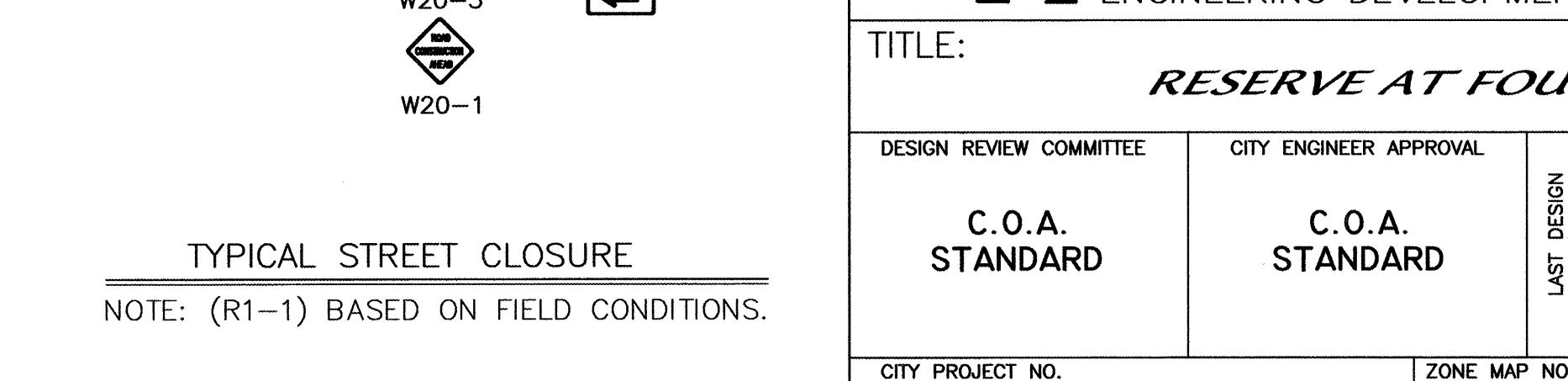
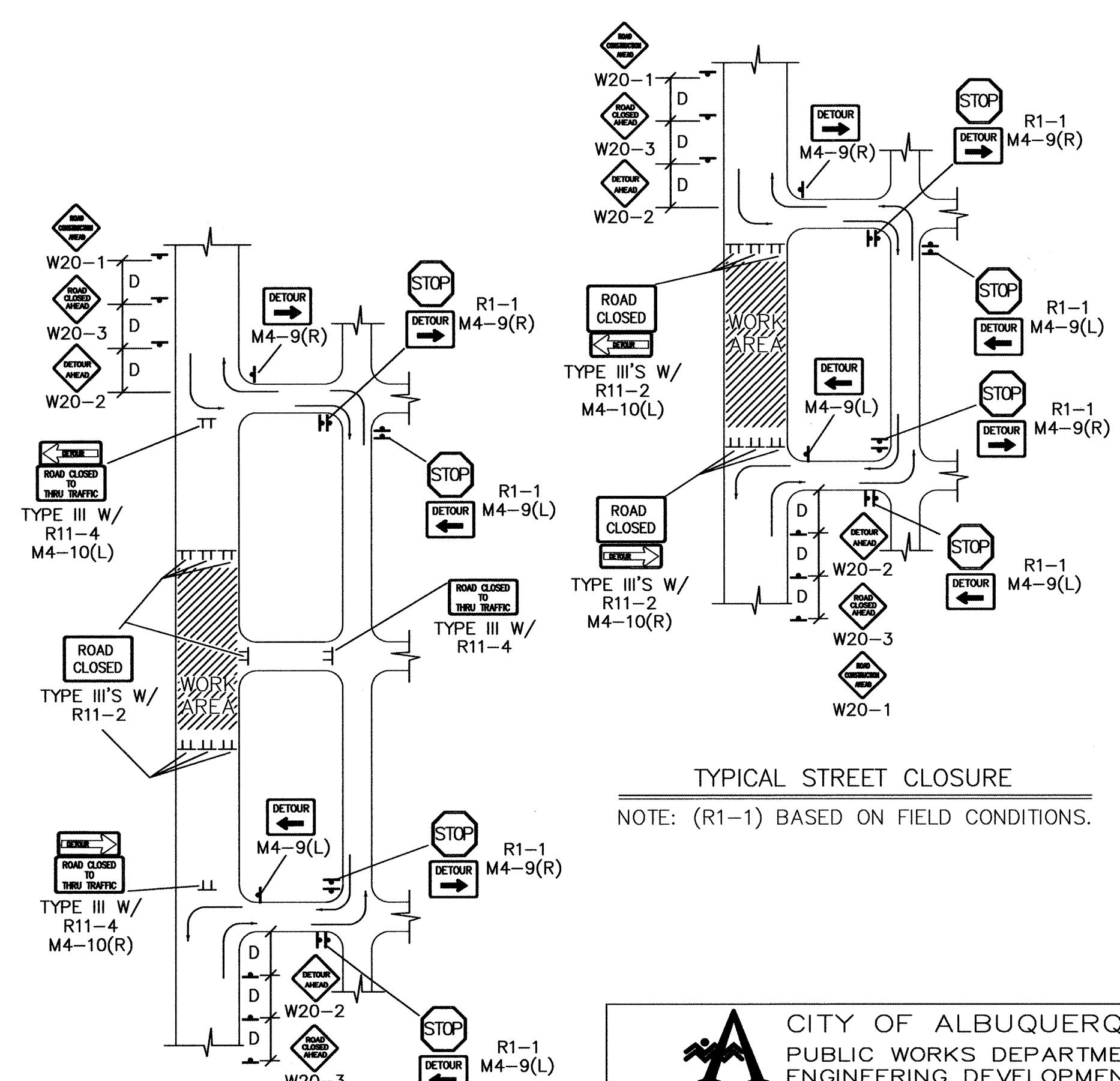
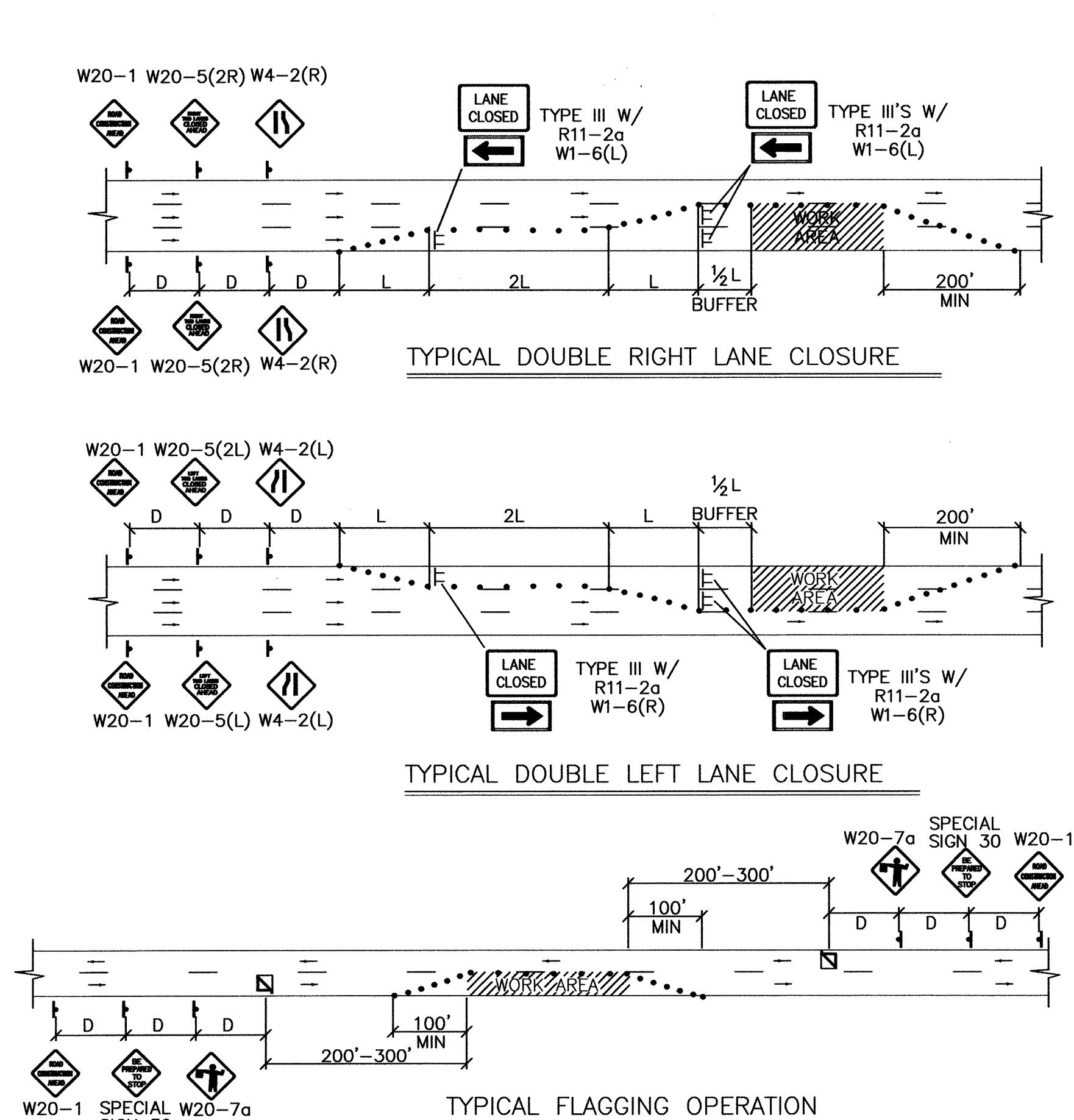
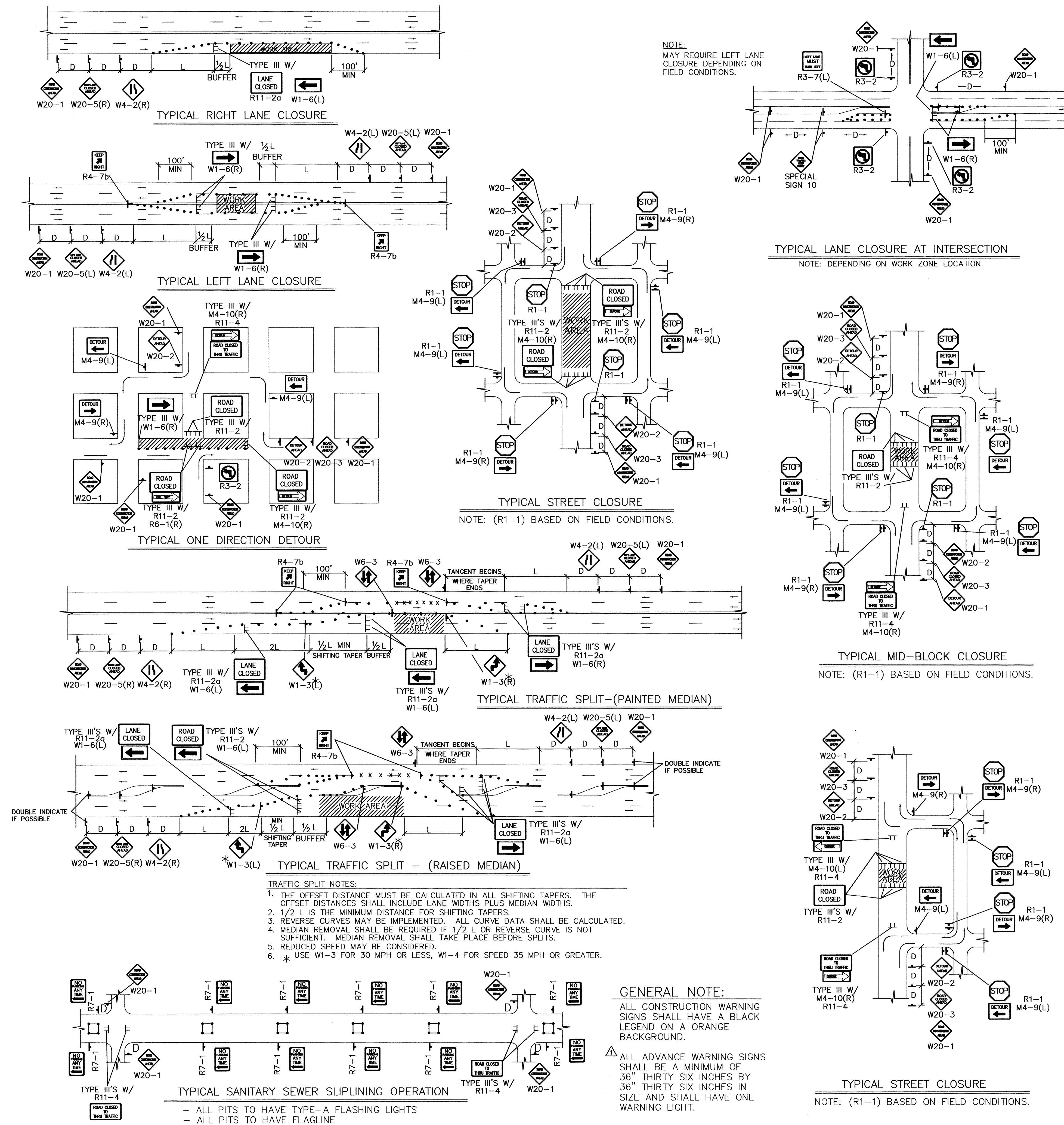


ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

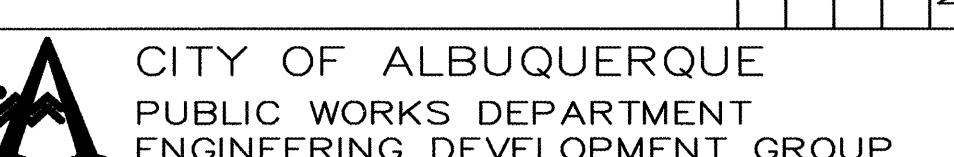
TAPER CRITERIA	
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER	L MINIMUM
MERGING TAPER	1/2 L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	100 FEET MAXIMUM
TWO-WAY TRAFFIC TAPER	100 FEET PER LANE
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION	
SPEED LIMIT	
40 MPH OR LESS	$L = \frac{W^2}{60}$
40 MPH OR GREATER	$L = W \times S$
REMARKS	
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: RESERVE AT FOUR HILLS			
DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL	
C.O.A. STANDARD		C.O.A. STANDARD	
LAST DESIGN UPDATE		MO./DAY/YR.	
CITY PROJECT NO.		ZONE MAP NO.	
696681		M-22	
SHEET OF		18 19	



ENGINEER'S SEAL				SURVEY INFORMATION				BENCH MARKS				AS-BUILT INFORMATION			
				FIELD NOTES				LOCATED AT THE INTERSECTION OF SAGEBRUSH TR. SE AND RATON AVE. SE, IN THE NE QUADRANT OF THE INTERSECTION.							
NO.	DATE	REMARKS	BY	NO.	DATE	BY	WORK STAKED BY	CONTRACTOR	TESTER UTILITY DATE	INSPECTOR'S	ACCEPTANCE BY	WORK STAKED BY	CONTRACTOR	TESTER UTILITY DATE	
△	9/24/97	REVISED GENERAL NOTE	J.D.L.				<i>ACRECH / CS /</i>	<i>ACRECH / CS /</i>	<i>ACRECH / CS /</i>				<i>ACRECH / CS /</i>	<i>ACRECH / CS /</i>	
NO.	DATE	REVISIONS	BY				DATE 7/03	DATE 7/03	DATE 7/03	DATE 7/03	DATE 7/03	DATE 7/03	DATE 7/03	DATE 7/03	
C.O.A. STANDARD DESIGN															
DESIGNED BY BOHANNAN HUSTON				DRAWN BY BOHANNAN HUSTON				CHECKED BY BOHANNAN HUSTON				MICRO-FILM INFORMATION			
												RECORDED BY DATE			
												NO.			



For more information about the study, please contact Dr. John Smith at (555) 123-4567 or via email at john.smith@researchinstitute.org.

RESERVE AT FOUR HILLS

CITY ENGINEER APPROVAL

Sign _____

C.O.A.
STANDARD

STANDARD LAST UP

ZONE MAP NO. SHEET