



CITY OF ALBUQUERQUE

CONSTRUCTION PLANS
FOR

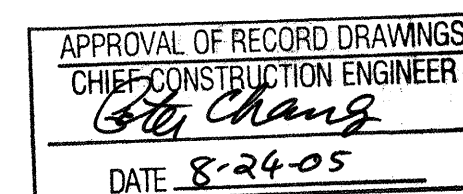
EDITH BOULEVARD WATERLINE REPLACEMENT FROM CANDELARIA ROAD TO RANKIN ROAD

MARCH 2000

CITY PROJECT NO. 6328.91

INDEX OF SHEET

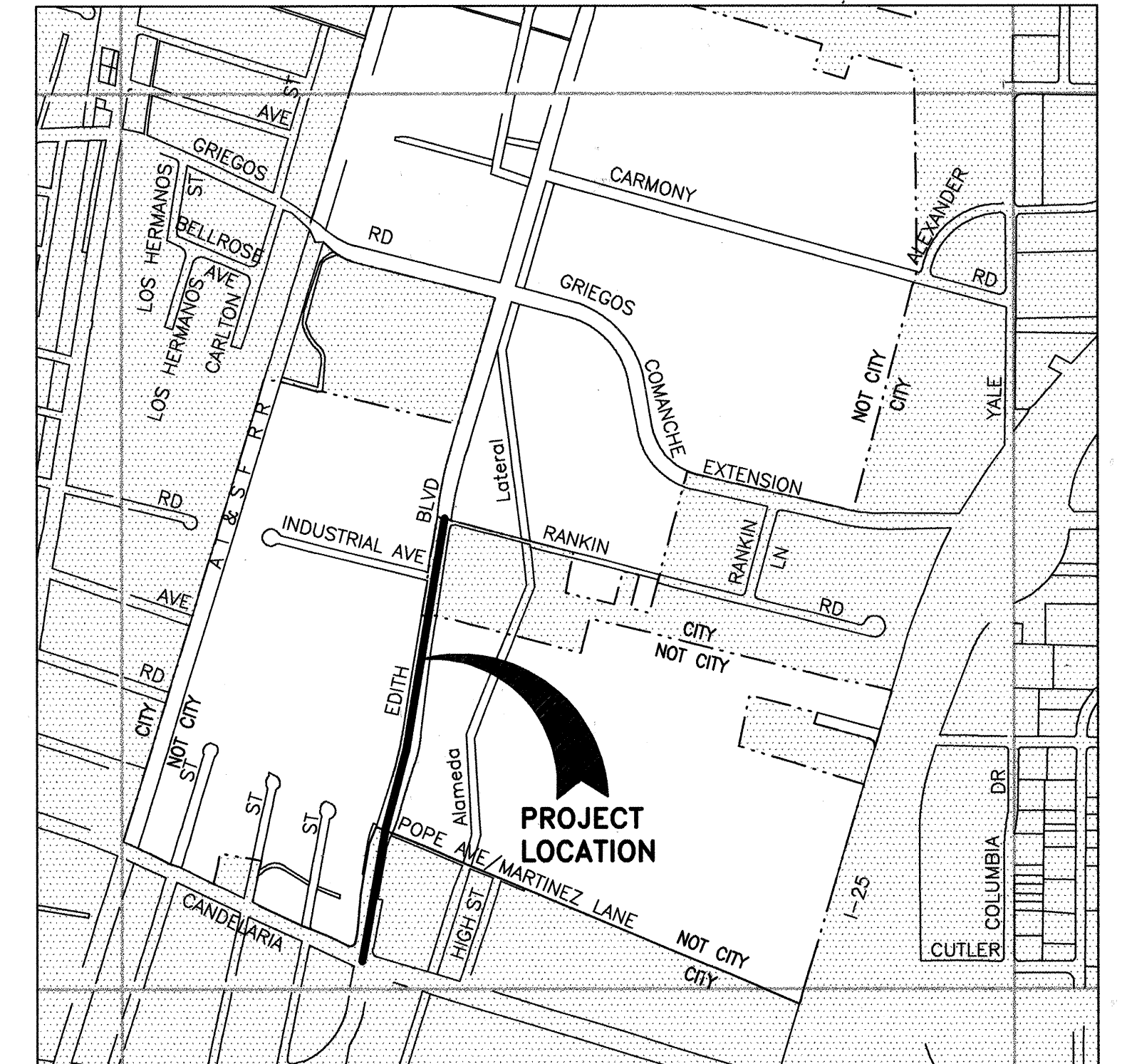
SHEET NO.	SHEET TITLE
1	TITLE SHEET, PROJECT LOCATION VICINITY MAP
2	GENERAL NOTES, LEGEND AND TRENCH PRISM
3	EDITH WATERLINE PLAN & PROFILE
4	EDITH WATERLINE PLAN & PROFILE
5	RESTRAINED JOINT DETAILS & WATER SHUTOFF PLAN
6	C.O.A. SIGNING & CONSTRUCTION TRAFFIC CONTROL STANDARDS
7	C.O.A. TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.)



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 6328.91 9/105

RECORD DRAWING

I, THE UNDERSIGNED, A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE INDICATED RECORD DRAWINGS ARE BASED UPON INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR IN THE FORM OF RED-LINED CONSTRUCTION DRAWING MARKUPS TO THE ORIGINAL DESIGN DRAWINGS. THE TRANSFER OF INFORMATION HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. HOWEVER, I HAVE NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THE INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND SHALL NOT BE RESPONSIBLE FOR ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. ALL INFORMATION INCLUDING VERTICAL AND HORIZONTAL DIMENSIONS SHOULD BE FIELD VERIFIED PRIOR TO USE ON FUTURE PROJECTS.



VICINITY MAP (G-15)
NOT TO SCALE

APPROVED FOR CONSTRUCTION

T. Paul
Bernillo County

3/3/2000
Date

B Boyle Engineering Corporation
consulting engineers
Sally Goss
2100 LUTHER BLVD. N.E.
ALBUQUERQUE, N.M. 87106
(505) 883-7700

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	
		DRC Chairman		<i>[Signature]</i>		3-06-00	
		Transportation		<i>[Signature]</i>		3-06-00	
		Water/Wastewater		<i>Rebecca C. Zick</i>		3-6-2000	
		Hydrology		<i>Bradley & Bigdon</i>		3-6-00	
		C.I.P.					
		Constr. Mngmnt.					
		Constr. Coord.		<i>[Signature]</i>		3-6-00	
		City Project No.		6328.91			
		Sheet		1		Of 7	

WORK (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT N.M. ONE-CALL SYSTEM, INC., 260-1990, FOR LOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL ALSO CALL TRAFFIC ENGINEERING AT 857-8000 FOR LOCATION OF TRAFFIC INTERCONNECT WIRING AND OTHER TRAFFIC SIGNAL EQUIPMENT.

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 (AS AMENDED THROUGH UPDATE #6.) REFERENCED TO HEREIN AS THE "STANDARD SPECIFICATIONS".

THE CONTRACTOR SHALL BE RESPONSIBLE FOR TIMING AND COORDINATION OF WATER SHUTOFF. AT LEAST (5) WORKING DAYS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CONTACT THE WATER SYSTEMS DIVISION, 857-8200, TO INITIATE IMPLEMENTATION OF THE NON-PRESSURIZED CONNECTION PLAN.

FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION.

THE LOCATION OF EXISTING UNDERGROUND UTILITIES HAS BEEN DETERMINED BY INFORMATION PROVIDED BY OTHERS, AND SHALL BE CONSIDERED APPROXIMATE ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND SIZE OF ALL EXISTING UTILITY LINES PRIOR TO CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES RESULTING FROM FAILURE TO LOCATE ANY AND ALL UTILITIES.

THE CONTRACTOR SHALL SUPPORT AND MAINTAIN OPERATIONAL ALL UTILITIES EXPOSED DURING TRENCHING AND OTHER CONSTRUCTION OPERATIONS. ALL CONSTRUCTION ACTIVITIES INVOLVING GAS, POWER, WATER, FIBER OPTIC, TRAFFIC SIGNAL EQUIPMENT, AND/OR OTHER UTILITY LINES SHALL BE COORDINATED WITH THE OWNER OF THE UTILITY PRIOR TO ANY DISTURBANCE. NO UTILITY SERVICE SHALL BE DISRUPTED WITHOUT FIRST NOTIFYING ALL AFFECTED PARTIES 48 HOURS IN ADVANCE.

THE CONTRACTOR SHALL FIELD VERIFY ALL WATERLINE CONNECTIONS TO EXISTING FACILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION TO ALLOW OBTAINING CORRECT ADAPTERS AND OTHER FITTINGS.

CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE GEODETIC SURVEY NOT LESS THAN FIVE (5) WORKING DAYS PRIOR TO STARTING WORK THAT WILL IMPACT ANY EXISTING ACS GEODETIC SURVEY MONUMENTS. ALL REFERENCING AND REPLACEMENT OF ACS MONUMENTS SHALL BE DONE BY THE CITY OF ALBUQUERQUE GEODETIC SURVEY. ANY ACS MONUMENTS DAMAGED OR DESTROYED DUE TO THE FAILURE OF CONTRACTOR TO NOTIFY AS STATED ABOVE SHALL BE REPLACED BY THE CITY OF ALBUQUERQUE GEODETIC SURVEY AT CONTRACTOR EXPENSE.

CONTRACTOR SHALL NOTIFY ENGINEER NO LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO ENSURE THE PRESERVATION OF ALL OTHER PERMANENT SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. ONLY THE ENGINEER SHALL DO REPLACEMENT. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT CONTRACTOR EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED.

ALL WATER VALVE BOXES AND SEWER MANHOLES WITHIN THE NEW PAVEMENT ARE TO BE ADJUSTED TO FINISH GRADE PER COA STANDARD DETAILS.

ALL STREET STRIPING AND MARKING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY THE CONTRACTOR TO THE SAME LOCATION AS EXISTING OR AS INDICATED ON THE CONSTRUCTION DRAWINGS.

WHERE THE CONTRACTOR CONNECTS TO AN EXISTING FITTING OR VALVE THAT HAS CONCRETE BLOCKING, THE CONTRACTOR SHALL REPLACE THE CONCRETE BLOCKING TO RESTRAIN THE EXISTING PIPE PER C.O.A. STANDARD DRAWING 2320. WHERE THE CONTRACTOR CONNECTS TO AN EXISTING PIPE, THE CONTRACTOR SHALL PLACE CONCRETE BLOCKING TO RESTRAIN THE EXISTING PIPE PER C.O.A. STANDARD DRAWING 2320. THE CONTRACTOR SHALL NOTE ALL RESTRAINT INSTALLED ON THE PLANS. FOR NEW INSTALLATIONS, THE CONTRACTOR SHALL INSTALL MECHANICALLY RESTRAINED JOINTS AS PER THE CONTRACT DOCUMENTS.

13. THE CONTRACTOR SHALL MAINTAIN ALL TRENCHES IN A SAFE. TRENCH PROTECTING THE WORKERS AND THE GENERAL PUBLIC. TRENCH PROTECTION SHALL BE IN ACCORDANCE WITH O.S.H.A. 29CFR 1926.650 SUBPART P. EXCAVATIONS SHALL BE SLOPED, BRACED OR SHORED AS REQUIRED BY O.S.H.A. REGULATIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY, AND FOR KNOWLEDGE AND COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS. NO ADDITIONAL COMPENSATION WILL BE MADE THEREFORE.
14. THE CONSTRUCTION DRAWINGS SHOW THE APPROXIMATE ELEVATION OF THE EXISTING PAVEMENT AT THE CENTERLINE OF THE STREET. THE CONTRACTOR SHALL INSTALL THE NEW WATER LINE WITH A MINIMUM OF THREE FEET OF COVER OVER THE WATER LINE REGARDLESS OF ITS ALIGNMENT IN THE STREET.
15. LOCATIONS OF STORM DRAIN AND OTHER UTILITIES ARE ESTIMATED. CONTRACTOR SHALL ADJUST ELEVATION OF NEW WATER LINE DURING CONSTRUCTION TO AVOID EXISTING UTILITIES. CONTRACTOR SHALL MARK THE EXACT LOCATION OF THE UTILITIES ON THE AS-BUILT DRAWINGS AS THEY ARE ENCOUNTERED.
16. THE CONTRACTOR SHALL NOTIFY WATER UTILITY DIVISION OF PUBLIC WORKS (PH. 857-8200) AND THE CITY OF ALBUQUERQUE FIRE DEPARTMENT AT LEAST FIVE (5) WORKING DAYS IN ADVANCE OF ANY DAY THAT FIRE HYDRANTS WILL BE TAKEN OUT OF AND RETURNED TO SERVICE. REFER TO SECTION 18 (GENERAL CONDITIONS) OF THE SPECIFICATIONS.
17. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB & GUTTER, DRIVE PADS, WHEEL CHAIR RAMPS, AND SIDEWALKS DURING CONSTRUCTION, APART FROM THESE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE PER C.O.A. STANDARDS AT CONTRACTOR'S EXPENSE.
18. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL DEMOLITION DEBRIS IN AN ENVIRONMENTALLY ACCEPTABLE MANNER. ALL SALVAGED MATERIALS SHALL BE HANDLED IN ACCORDANCE WITH SECTION 801.15 OF THE STANDARD SPECIFICATIONS.
19. TEMPORARY WATER SERVICE IS TO BE PROVIDED FOR ANY RESIDENCE, SCHOOL OR BUSINESS WHICH WILL BE OUT OF SERVICE MORE THAN FOUR HOURS.
20. PAVEMENT REPLACEMENT
 - A. RESIDENTIAL STREET — FLEXIBLE PAVEMENT
(MARTINEZ LANE, POPE AVENUE, INDUSTRIAL AVENUE, RANKIN ROAD)
FOR PAVEMENT CUTS < 8 FEET WIDE, THE PAVEMENT SHALL BE REPLACED PER CITY STANDARD DRAWING NO. 2465 TO MATCH EXISTING PAVEMENT THICKNESS PLUS 2 INCHES.
 - B. ARTERIAL/COLLECTOR STREET — FLEXIBLE PAVEMENT
(EDITH BOULEVARD, CANDELARIA ROAD)
FOR PAVEMENT CUTS < 8 FEET WIDE, THE PAVEMENT SHALL BE REPLACED PER CITY STANDARD DRAWING NO. 2465 TO MATCH EXISTING PAVEMENT THICKNESS PLUS 2 INCHES.
 - C. FOR PAVEMENT CUTS < 6 FEET FROM UTILITY CUT TO LIP OF GUTTER MUST BE REMOVED AND REPLACED TO THE GUTTER.
21. ALL WATER SERVICES ON EAST SIDE OF EDITH BOULEVARD WILL BE TRANSFERRED TO NEW 8" WATERLINE.
22. POTHOLE ALL WATER SERVICES ON WEST SIDE AND HOLE HOG TO TRANSFER TO NEW 8" WATERLINE METER BOXES.

EXISTING EDGE OF

A. LETTERED GENERAL NOTES SHALL TAKE PRECEDENCE FOR ALL WORK IN BERNALILLO COUNTY.

B. PROJECT IS SUBJECT TO THE REQUIREMENTS OF COUNTY ORDINANCE NO. 95-12 AND ORDINANCE NO. 96-3. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL PERMITS NECESSARY. CONTRACTOR SHALL CALL 848-1500 FOR MORE INFORMATION.

C. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE COUNTY TRAFFIC CONTROL MANAGER AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK. TRAFFIC CONTROL PLANS SHALL BE PREPARED IN ACCORDANCE WITH NOTED REQUIREMENTS AND BY CERTIFIED PERSONNEL AND MUST BE APPROVED PRIOR TO COMMENCEMENT OF WORK ON THE PROJECT. CALL 848-1504 FOR FURTHER INFORMATION.

D. A DAILY TRAFFIC CONTROL LOG SHALL BE MAINTAINED BY THE CONTRACTOR REFLECTING THE TYPES AND LOCATIONS OF ALL TRAFFIC CONTROL DEVICES, SIGNS, BARRICADES, ETC. BEING USED ON THE PROJECT IN COMPLIANCE WITH THE APPROVED TRAFFIC CONTROL PLAN. THIS LOG SHALL BE SUBMITTED TO THE BERNALILLO COUNTY TRAFFIC CONTROL MANAGER UPON COMPLETION OF THE PROJECT CONSTRUCTION OR WHEN SO REQUESTED BY THE PROJECT OR THE BERNALILLO COUNTY TRAFFIC CONTROL MANAGER.

E. CONTRACTOR SHALL PROVIDE A WEEKLY CONSTRUCTION ACTIVITY SCHEDULE TO BERNALILLO COUNTY PUBLIC WORKS DIVISION ATTN: HOSS FOSTER.

F. THE CONTRACTOR SHALL FILE WEEKLY WRITTEN REPORT TO THE TRAFFIC CONTROL MANAGER DESCRIBING THE TRAFFIC CONTROL PLAN THAT WILL BE IN EFFECT FOR THE FOLLOWING WEEK.

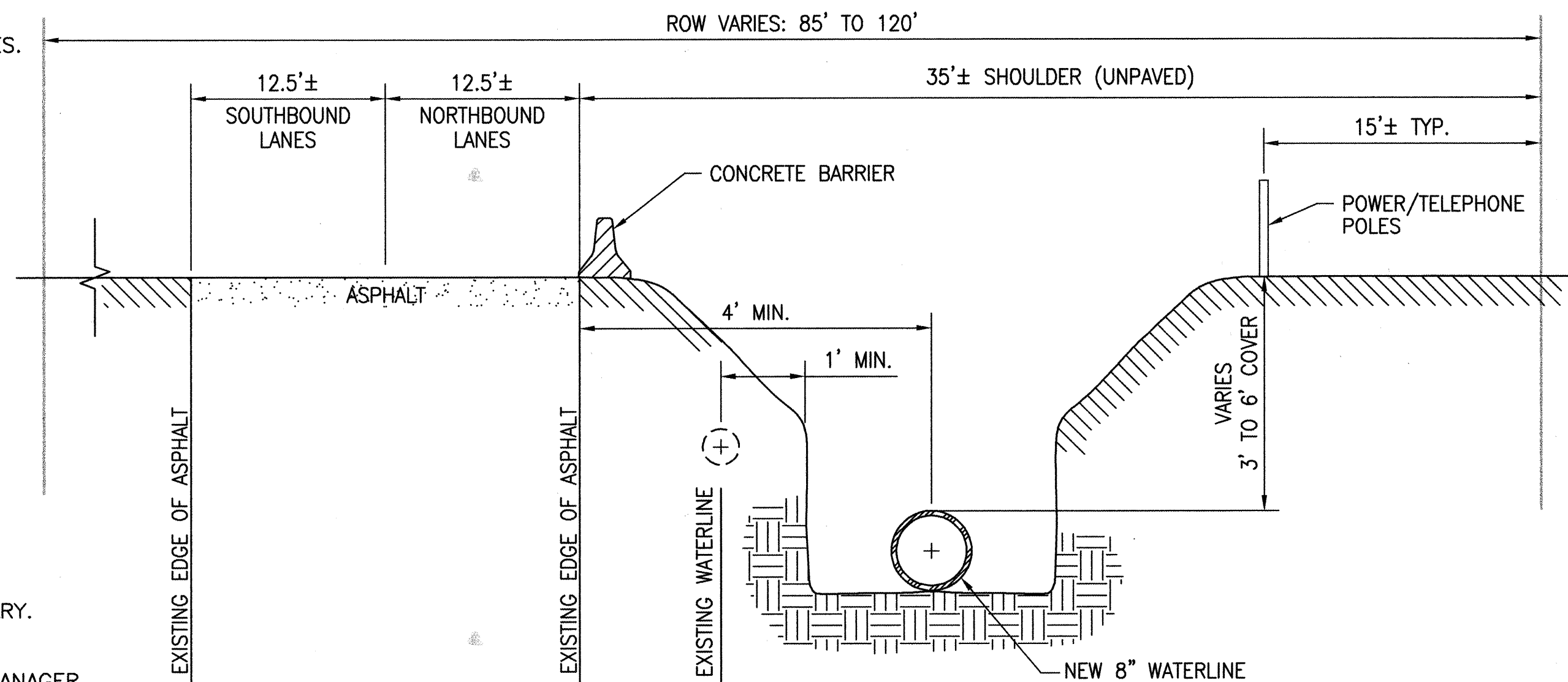
G. SUBJECT TO THE APPROVED TRAFFIC CONTROL PLAN, AT LEAST ONE LANE SHALL BE OPEN TO TRAFFIC AT ALL TIMES. CONTRACTOR SHALL PROVIDE PROPER SIGNAGE AND FLAGMAN AND SHALL MAINTAIN THE TRAFFIC LANE IN SUCH A MANNER AS TO ASSURE PROPER SAFETY TO THE TRAVELING PUBLIC ON ALL AFFECTED ROADS. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL PRIVATE AND PUBLIC PROPERTY AT ALL TIMES, EXCEPT WHEN GRADING, EXCAVATION AND BACKFILL OPERATIONS ARE BEING CONDUCTED IMMEDIATELY IN FRONT OF THE PROPERTY, IN WHICH CASE ACCESS WILL NOT BE DENIED FOR MORE THAN 4 HOURS WITHOUT APPROVAL BY THE COUNTY.

H. TRAFFIC LANES PROVIDED DURING CONSTRUCTION SHALL BE MAINTAINED, IN SUCH A CONDITION UNDER ALL WEATHER CONDITIONS, SO AS TO PERMIT THE REASONABLE PASSAGE OF PASSENGER VEHICLES, AND SHALL BE KEPT GRADED AND SMOOTH, AND WATERED SEVERAL TIMES DAILY TO CONTROL DUST.


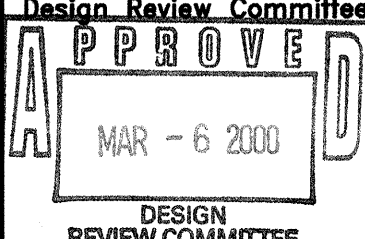
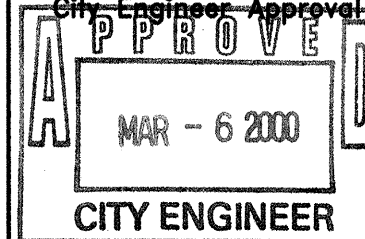
I. THE CONTRACTOR SHALL NOTIFY THE BERNALILLO COUNTY FIRE DEPARTMENT AT LEAST FIVE (5) WORKING DAYS IN ADVANCE OF ANY DAY THAT FIRE HYDRANTS WILL BE TAKEN OUT OF AND RETURNED TO SERVICE.

J. THE CONTRACTOR SHALL VERIFY THE PAVEMENT REPLACEMENT SECTIONS WITH THE COUNTY'S INSPECTOR AT TIME OF EXCAVATION.

PROPOSED	EXISTING	DESCRIPTION
		WATERLINE (W/SIZE & MATERIAL EXISTING ONLY)
		SANITARY SEWERLINE & MANHOLE
		STORM DRAINLINE & MANHOLE
		WATERLINE W/ GATE VALVE
		FIRE HYDRANT
		REDUCER
		TEE
		CROSS
		BEND
		CAP AND PLUGS
		COUPLING
		POWER POLE
		UNDERGROUND GAS LINE
		TELEPHONE LINE
		RIGHT OF WAY LINE
		WATER METER
		CITY/COUNTY BOUNDARY



SECTION A-A
TYPICAL TRENCH PRISM
SCALE: N.T.S.

 Boyle Engineering Corporation consulting engineers Suite 600 4410 EIGHTH BLVD. N.E. FARMINGTON, N.M. 87510 (505) 883-7700			DATE		DESIGNED BY	DRAWN BY	CHECKED BY
			NO.				
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT UTILITY DESIGN SECTION							
TITLE: EDITH BOULEVARD WATERLINE REPLACEMENT FROM CANDELARIA ROAD TO RANKIN ROAD GENERAL NOTES, LEGEND AND TRENCH PRISM							
Design Review Committee  DESIGN REVIEW COMMITTEE		City Engineer Approval  CITY ENGINEER		Last Design Update	Mo./Day/Yr.		Mo./Day/Yr.
City Project No. 6328.91		Zone Map No. G-15		Sheet 2	of 7		

SCANNED BY
MESA REPRO

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Time: 02-24-00 11:01:03 AM
User: cmorgan
Job #: Y
XRef Files:

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
UTILITY DESIGN SECTION

**EDITH BOULEVARD WATERLINE REPLACEMENT
FROM CANDELARIA ROAD TO RANKIN ROAD
EDITH WATERLINE PLAN & PROFILE**

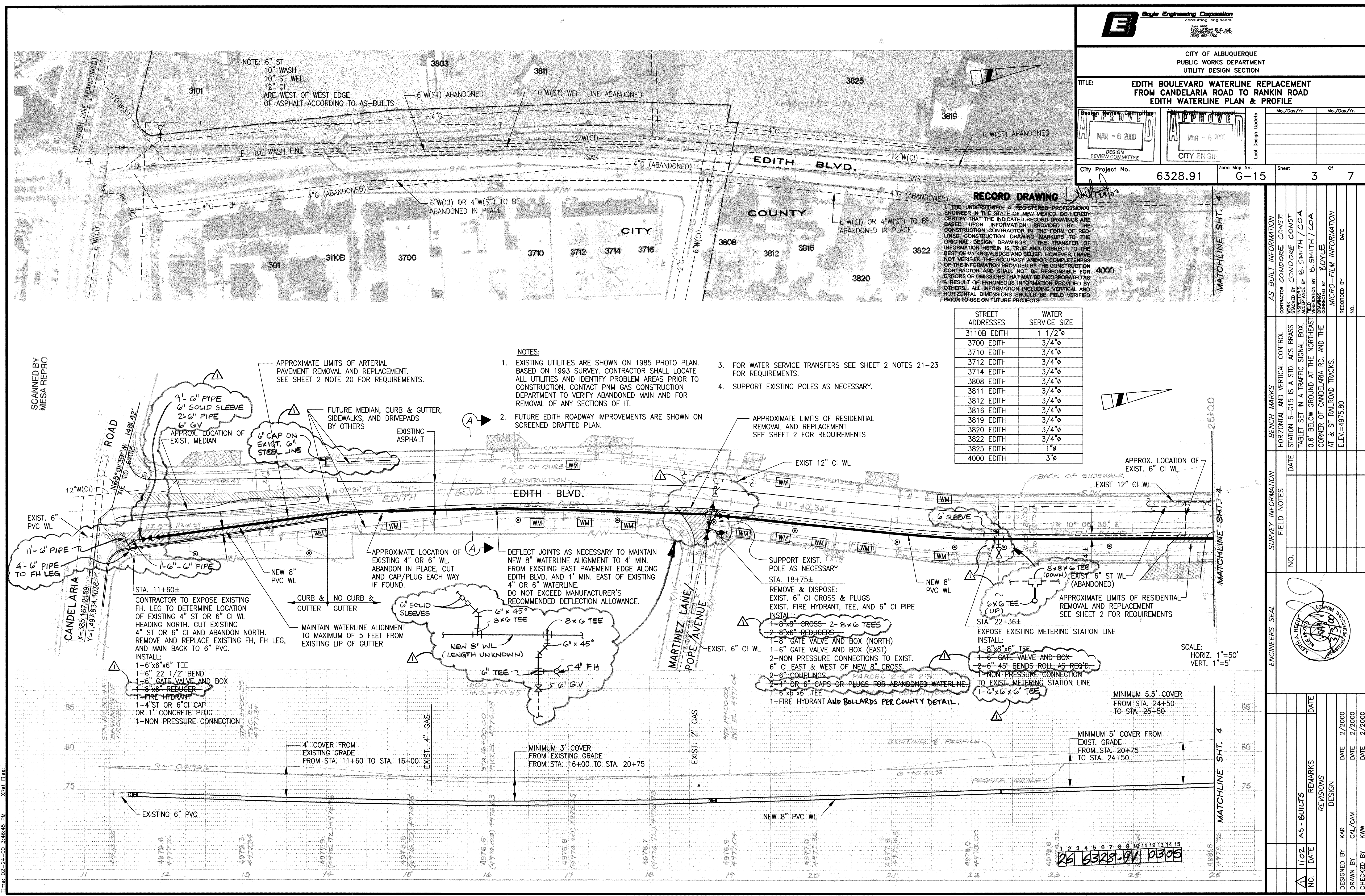
Design Review Committee APPROVE MAR - 6 2000 DESIGN REVIEW COMMITTEE	City Engineer APPROVE MAR - 6 2000 CITY ENGINEER	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No.	6328.91	Zone Map No.	G-15	Sheet 3 of 7

RECORD DRAWING

I, THE UNDERSIGNED, A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE INDICATED RECORD DRAWINGS ARE BASED UPON INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR IN THE FORM OF RED-LINED CONSTRUCTION DRAWING MARKUPS TO THE ORIGINAL DESIGN DRAWINGS. THE TRANSFER OF INFORMATION HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. HOWEVER, I HAVE NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THE INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND SHALL NOT BE RESPONSIBLE FOR ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERROREOUS INFORMATION PROVIDED BY OTHERS. ALL INFORMATION INCLUDING VERTICAL AND HORIZONTAL DIMENSIONS SHOULD BE FIELD VERIFIED PRIOR TO USE ON FUTURE PROJECTS.

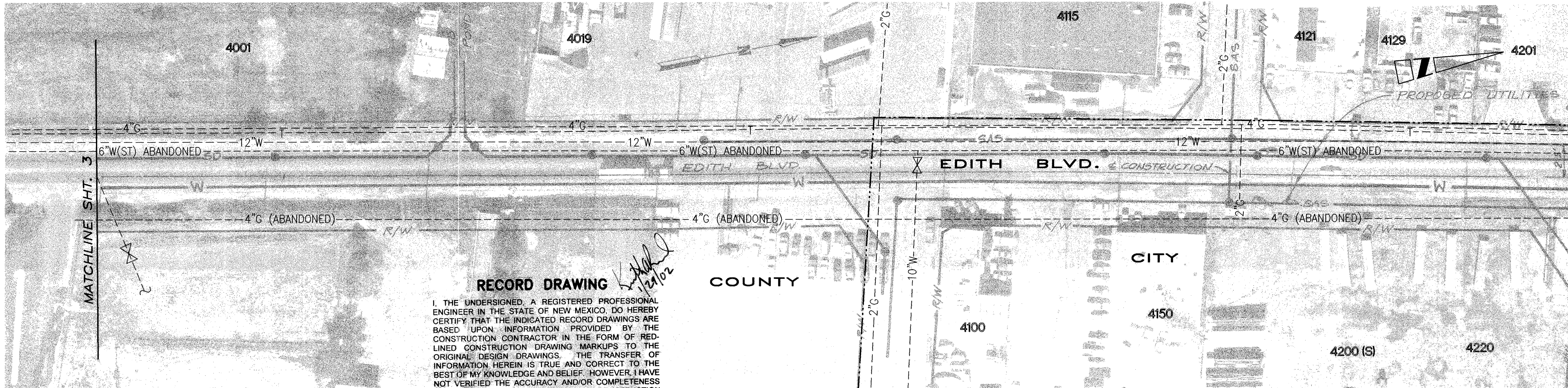
STREET ADDRESSES	WATER SERVICE SIZE
3110B EDITH	1 1/2"
3700 EDITH	3/4"
3710 EDITH	3/4"
3712 EDITH	3/4"
3714 EDITH	3/4"
3808 EDITH	3/4"
3811 EDITH	3/4"
3812 EDITH	3/4"
3816 EDITH	3/4"
3819 EDITH	3/4"
3820 EDITH	3/4"
3822 EDITH	3/4"
3825 EDITH	1"
4000 EDITH	3"

- NOTES:**
- EXISTING UTILITIES ARE SHOWN ON 1985 PHOTO PLAN. BASED ON 1993 SURVEY. CONTRACTOR SHALL LOCATE ALL UTILITIES AND IDENTIFY PROBLEM AREAS PRIOR TO CONSTRUCTION. CONTACT PNM GAS CONSTRUCTION DEPARTMENT TO VERIFY ABANDONED MAIN AND FOR REMOVAL OF ANY SECTIONS OF IT.
 - FUTURE EDITH ROADWAY IMPROVEMENTS ARE SHOWN ON SCREENED DRAFTED PLAN.
 - FOR WATER SERVICE TRANSFERS SEE SHEET 2 NOTES 21-23 FOR REQUIREMENTS.
 - SUPPORT EXISTING POLES AS NECESSARY.



AS BUILT INFORMATION	CONTRACTOR	CONDORCE CONST.
BENCH MARKS	HORIZONTAL AND VERTICAL CONTROL	STATION 6-G15 IS A STD. ACS BRASS TABLET SET IN A TRAFFIC SIGNAL BOX. 0.6' BELOW GROUND AT THE NORTHEAST CORNER OF CANDELARIA RD. AND THE AT & SF RAILROAD TRACKS. ELEV.=4975.80
SURVEY INFORMATION	FIELD NOTES	DATE
ENGINEERS SEAL	NO.	DATE
NO.	DATE	REMARKS
1/02	AS-BUILTS	DESIGN
DESIGNED BY	KAR	DATE 2/2000
DRAWN BY	CAL/CAM	DATE 2/2000
CHECKED BY	KWW	DATE 2/2000

SCANNED BY
MESA REPRO



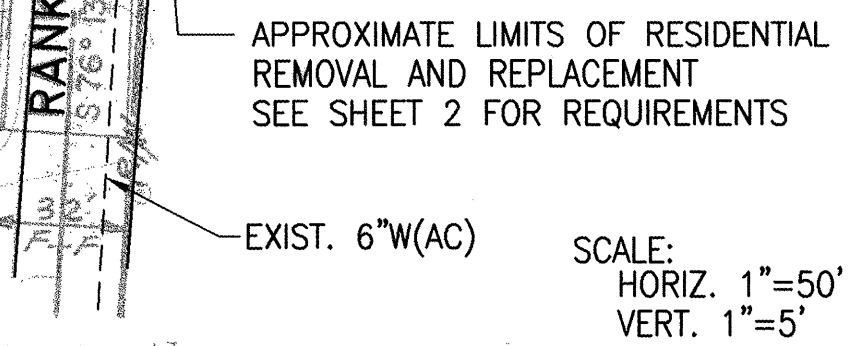
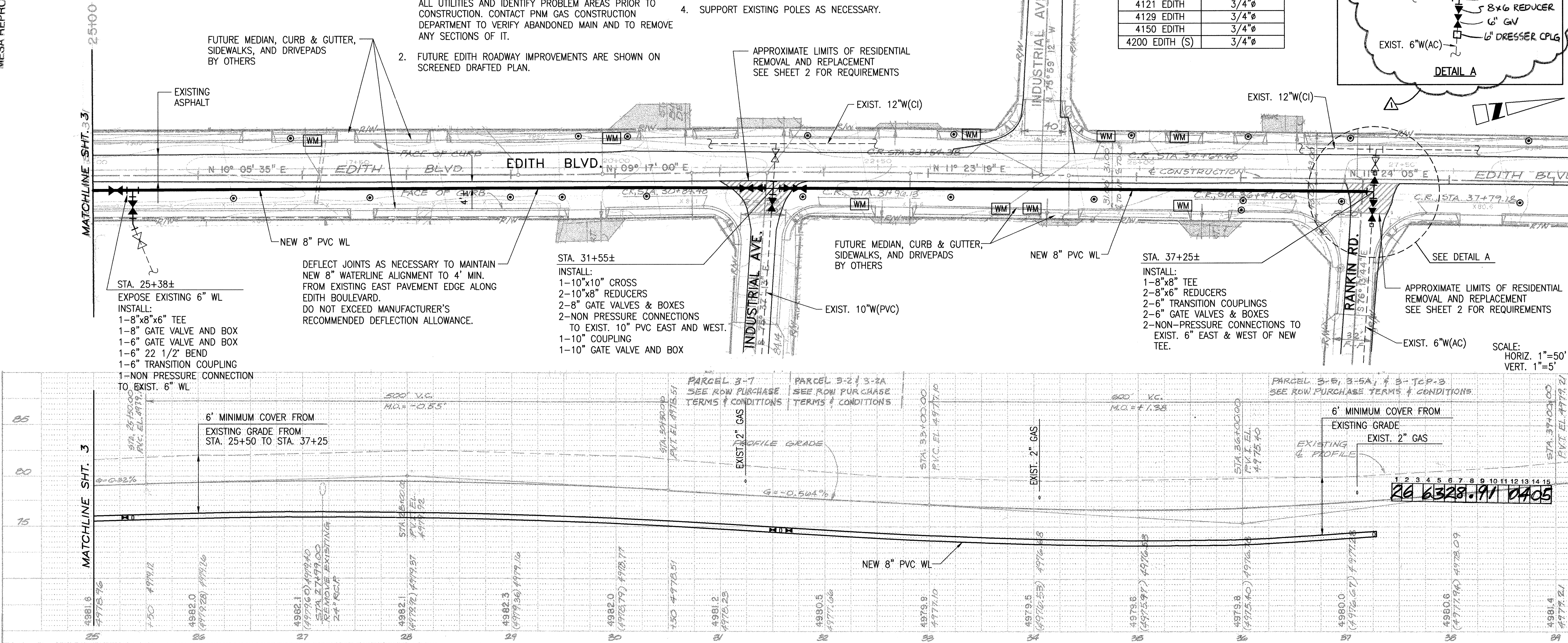
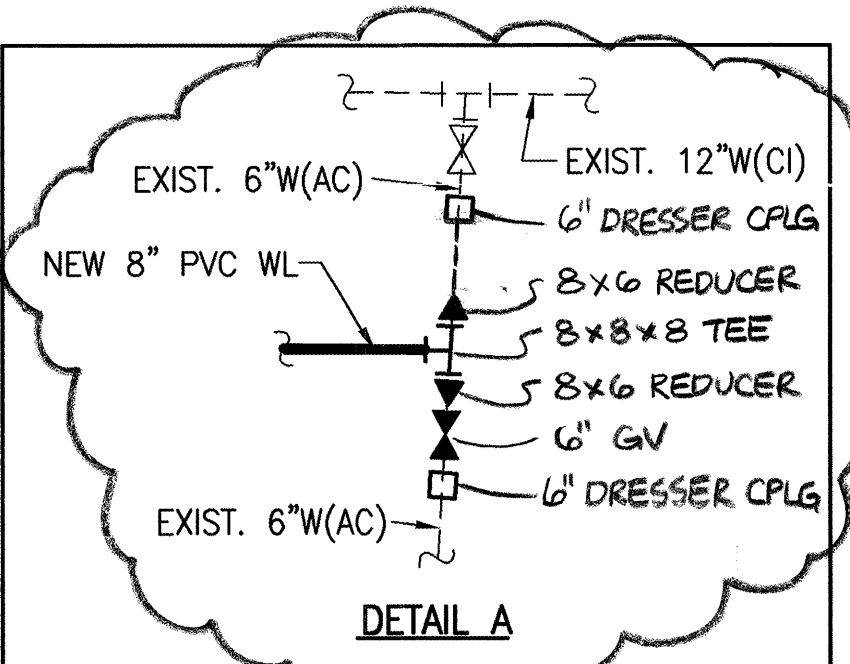
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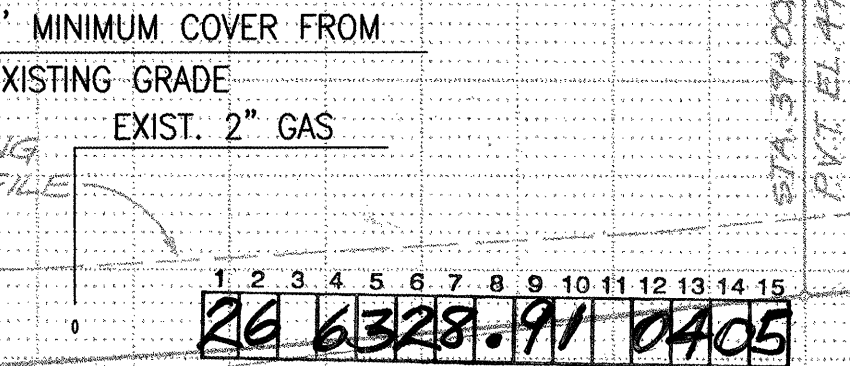
NOTES:

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- FUTURE EDITH ROADWAY IMPROVEMENTS ARE SHOWN ON SCREENED DRAFTED PLAN.
- FOR WATER SERVICE TRANSFERS SEE SHEET 2 NOTES 21-23 FOR REQUIREMENTS.
- SUPPORT EXISTING POLES AS NECESSARY.

STREET ADDRESSES	WATER SERVICE SIZE
4001 EDITH	3/4"Ø
4019 EDITH	3/4"Ø
4100 EDITH	3/4"Ø
4115 EDITH	1"Ø
4121 EDITH	3/4"Ø
4129 EDITH	3/4"Ø
4150 EDITH	3/4"Ø
4200 EDITH (S)	3/4"Ø



SCALE:
HORIZ. 1"=50'
VERT. 1"=5'



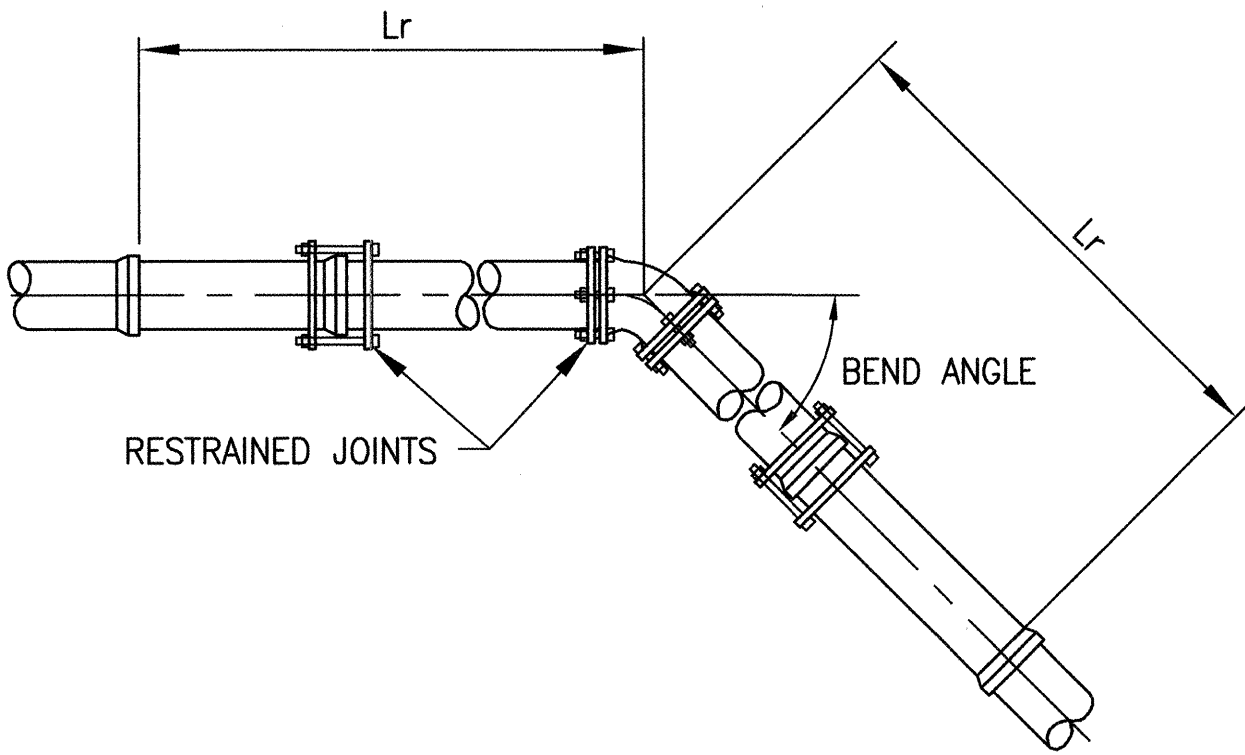
ENGINEERS SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES		HORIZONTAL AND VERTICAL CONTROL		CONTRACTOR CONDORE CONST.	
		NO.		DATE		WORK REVIEWED BY CONDORE CONST.	
						ACCEPTANCE BY B. SMITH / COA	
						FIELD LOCATION BY B. SMITH / COA	
						DRAWINGS CORRECTED BY BOYLE	
						MICRO-FILM INFORMATION	
						RECORDED BY	
						DATE	
						NO.	

RESTRAINED JOINTS FOR SMALL DIAMETER PVC WATER LINES

1. HORIZONTAL BEND

BEND ANGLE	PIPE SIZE				
	4"	6"	8"	10"	12"
90°	14'	20'	26'	31'	36'
45°	6'	8'	11'	13'	15'
22 1/2°	3'	4'	5'	6'	7'
11 1/4°	1'	2'	3'	3'	4'

Lr = LENGTH OF PIPE TO BE RESTRAINED



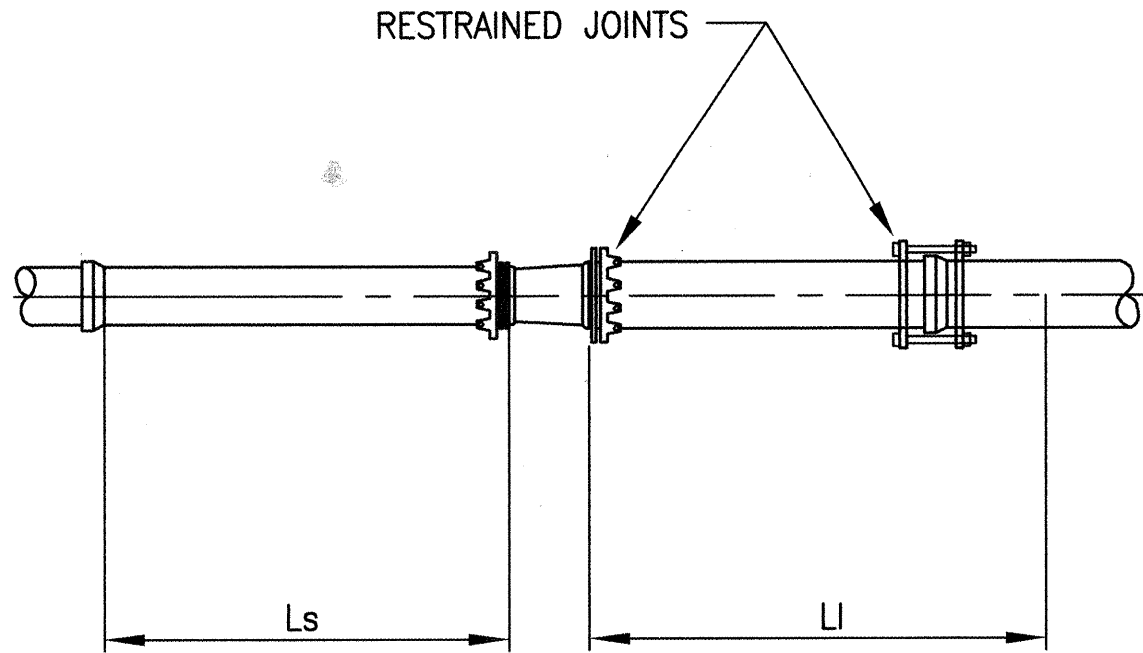
4. REDUCER

SMALL END	Ls/LI			
	6"	8"	10"	12"
4"	42'/28'	100'/52'	169'/70'	256'/88'
6"		39'/30'	87'/53'	146'/74'
8"			36'/29'	81'/54'
10"				36'/30'
12"				

NOTE: IF THE SMALLER SIDE OF THE REDUCER IS UN-OBSTRUCTED (FREE OF BENDS, VALVES, TEES OR OTHER FITTINGS) FOR A MINIMUM LENGTH OF Ls, THEN NO RESTRAINT IS REQUIRED; OTHERWISE THE PIPE MUST BE RESTRAINED FOR A LENGTH OF LI, ON THE LARGER SIDE OF THE REDUCER.

Ls = UN-OBSTRUCTED STRAIGHT RUN LENGTH AVAILABLE ON THE SMALLER SIDE OF REDUCER

LI = LENGTH OF PIPE TO BE RESTRAINED ON THE LARGER SIDE OF REDUCER

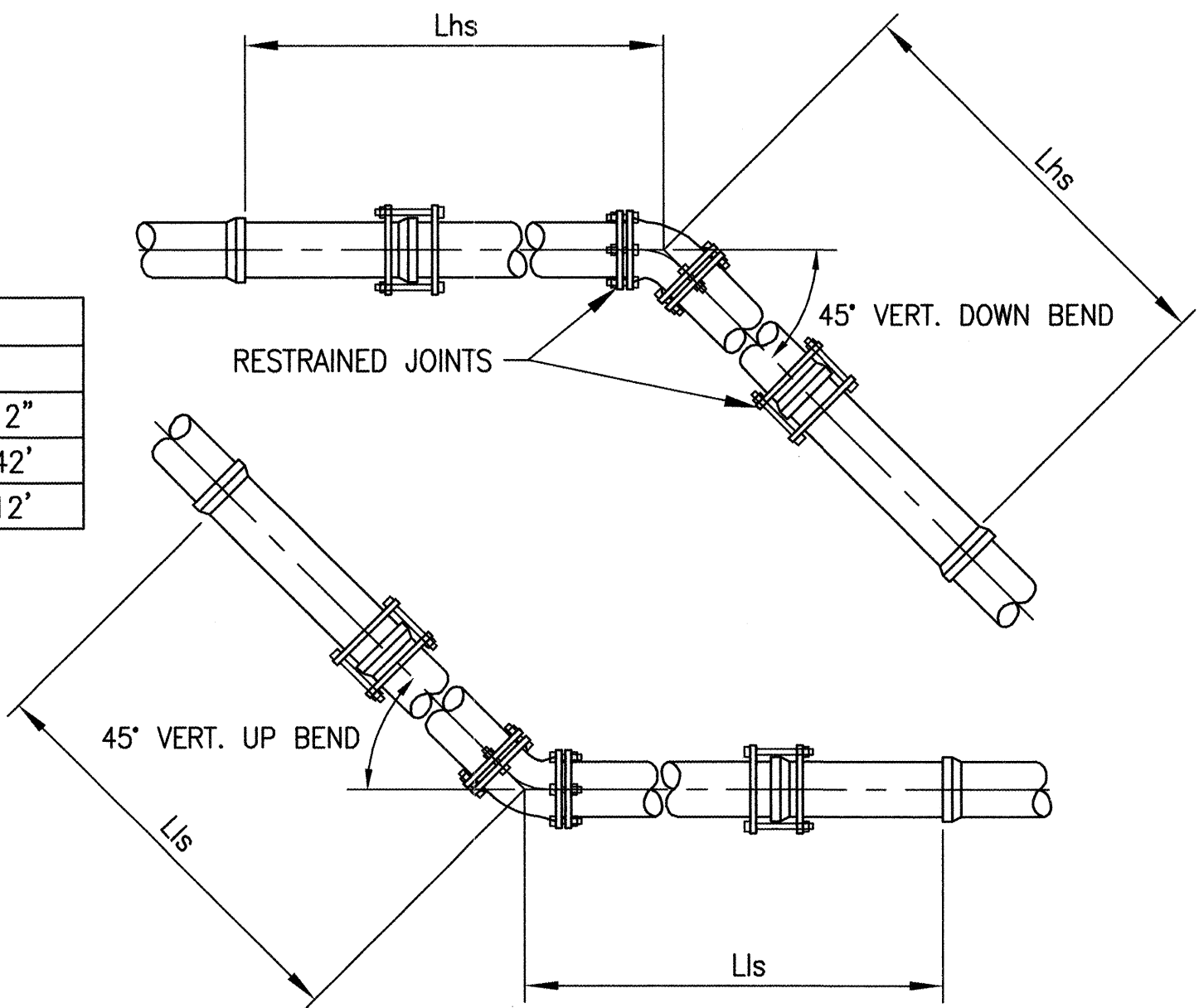


2. VERTICAL OFFSET (45°)

	PIPE SIZE				
	4"	6"	8"	10"	12"
Lhs	16'	23'	30'	36'	42'
Lls	5'	6'	8'	10'	12'

Lhs = LENGTH OF PIPE TO BE RESTRAINED ON VERTICAL DOWN BENDS

Lls = LENGTH OF PIPE TO BE RESTRAINED ON VERTICAL UP BENDS

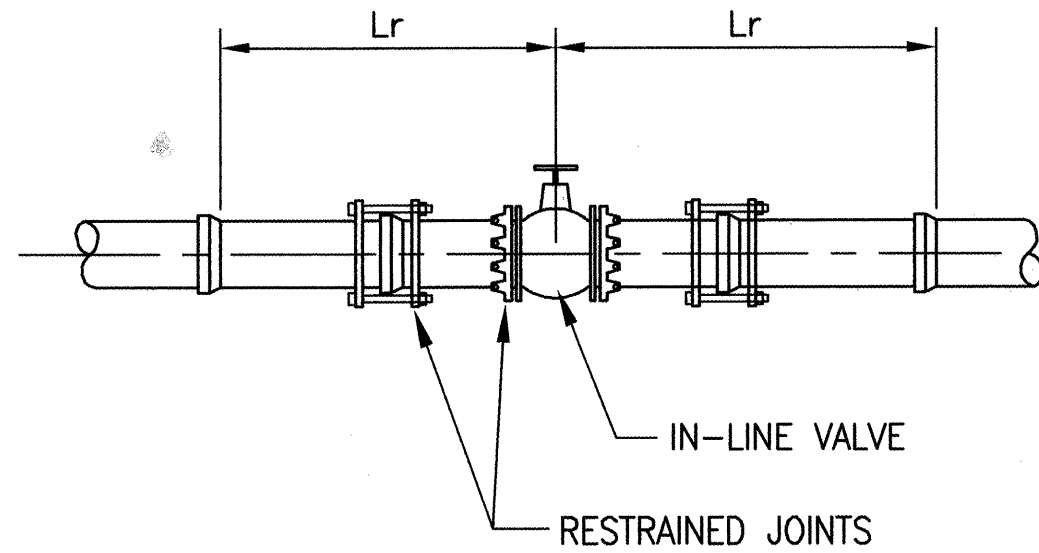
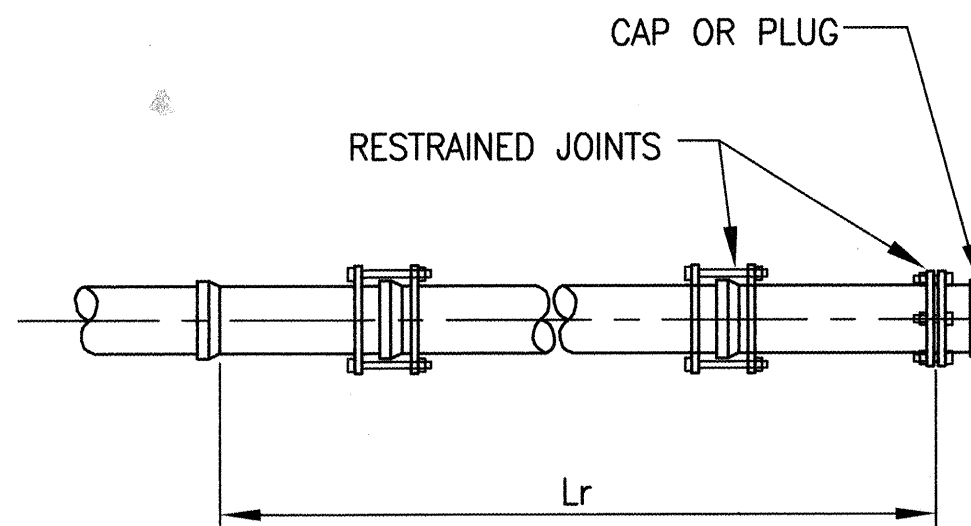


5. IN-LINE VALVES & DEAD ENDS

Lr	PIPE SIZE				
	4"	6"	8"	10"	12"
Lr	39'	55'	72'	86'	102'

NOTE: VALVES SHALL BE RESTRAINED ON BOTH SIDES.

Lr = LENGTH OF PIPE TO BE RESTRAINED



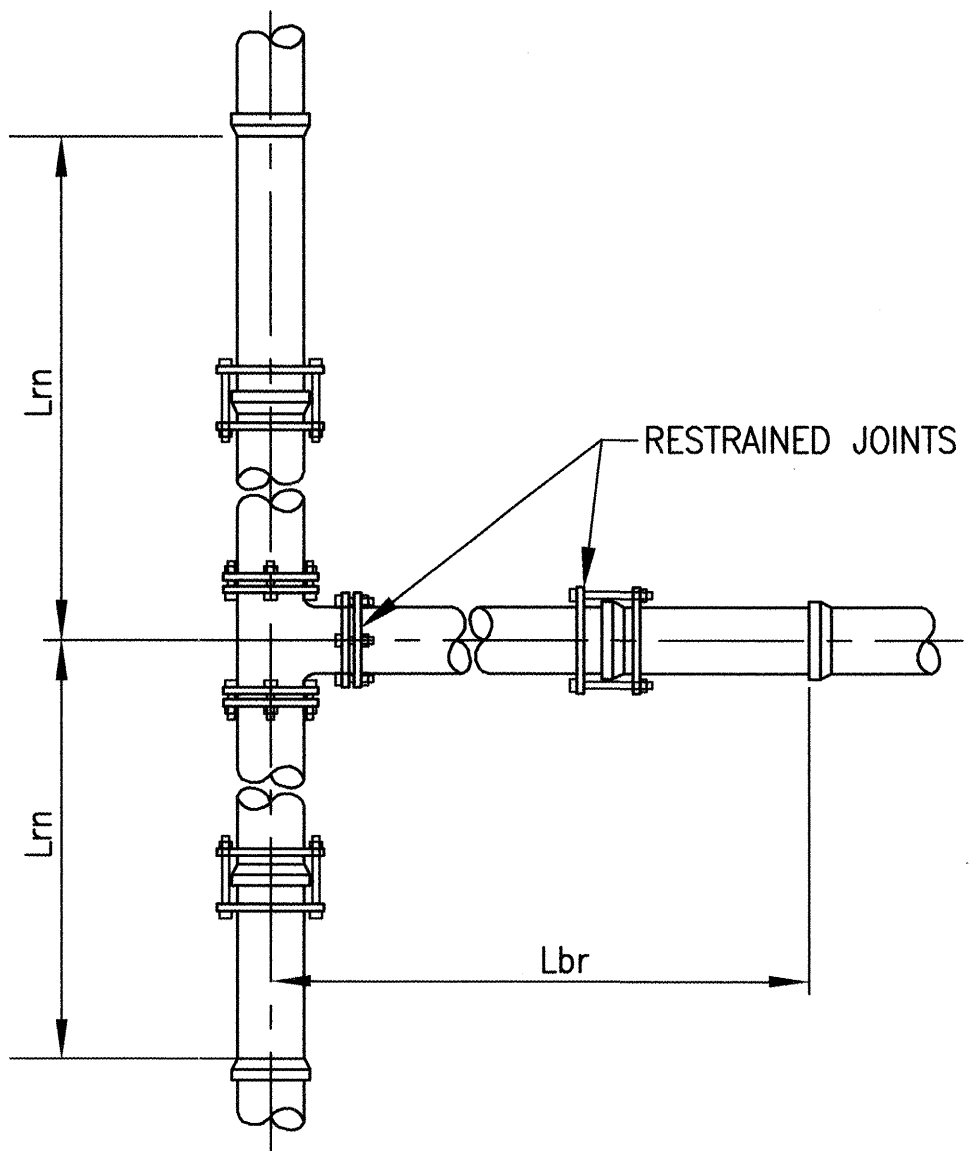
3. TEE

BRANCH SIZE	Lbr (Lrn=0.5') / Lbr (Lrn=10')				
	4"	6"	8"	10"	12"
4"	36'/14'	35'/14'	34'/14'	32'/14'	31'/14'
6"		52'/20'	51'/20'	50'/20'	49'/20'
8"			69'/26'	69'/26'	68'/26'
10"				84'/33'	83'/31'
12"					99'/47'

NOTE: IF Lrn ≥ 20', THEN ALL TEE SIZES NEED TO BE RESTRAINED AT THE FITTING ONLY (FO) ON THE BRANCH.

Lrn = SHORTEST LENGTH OF PIPE RESTRAINED ON EITHER SIDE OF THE TEE

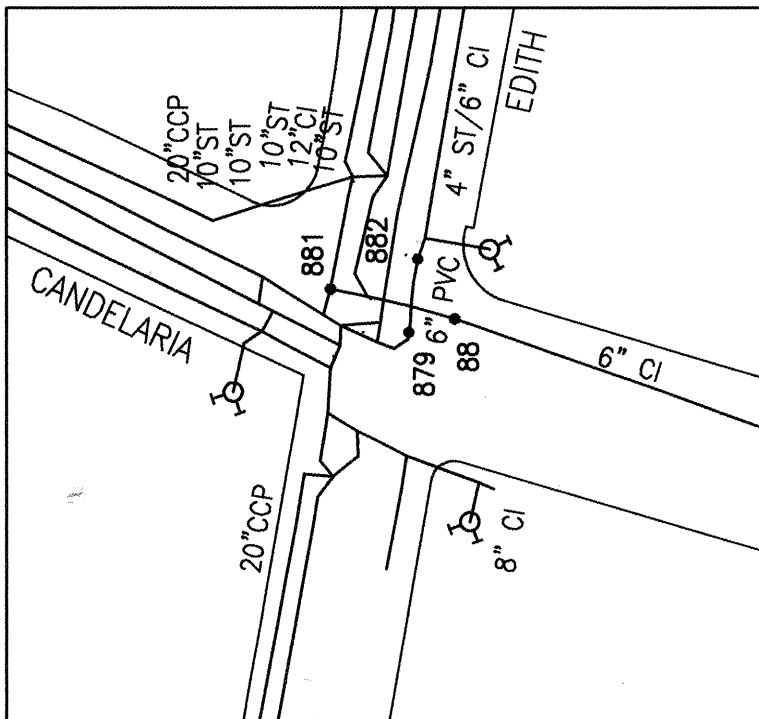
Lbr = LENGTH OF PIPE TO BE RESTRAINED ON THE BRANCH



FOR CONNECTION AT CANDELARIA AND MARTINEZ/POPE
CLOSE VALVES G15-882, 879, 88, 881, 821, 782, 783, 781

FOR CONNECTION AT INDUSTRIAL
CLOSE VALVES G15-681, 691, 631, 781

FOR CONNECTION AT RANKIN
CLOSE VALVES G15-282, 901, 902, 631, 192



WATER SHUTOFF PLAN
ZONE ATLAS G-15

NOTES:

- ALL JOINTS AND FITTINGS WITHIN THE SPECIFIED RESTRAINED LENGTH, MUST BE RESTRAINED.
- ALL LENGTHS ARE IN FEET.
- ALL RESTRAINED JOINT LENGTHS ARE BASED ON THE CONDITIONS NOTED UNDER "BASIS OF DESIGN". ANY CHANGES TO THESE CONDITIONS MUST BE NOTED AND LENGTHS RECALCULATED AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL NOTE THE LOCATION, TYPE AND EXTENT OF ALL RESTRAINED JOINTS INSTALLED ON THIS PROJECT AS PART OF THE RECORD DRAWINGS.
- THE CONTRACTOR SHALL SUBMIT THRUST RESTRAINT DESIGN FOR PIPE THAT IS NOT THE SIZE OR MATERIAL TYPE SHOWN IN THESE DETAILS.
- THE CONTRACTOR MAY USE THESE RESTRAINED JOINT DETAILS FOR THE DUCTILE IRON PIPE (DIP) WATERLINES, OR THE CONTRACTOR MAY SUBMIT AN ALTERNATE THRUST RESTRAINT DESIGN FOR THE DUCTILE IRON PIPE.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 6228.91 191 0505

RECORD DRAWING

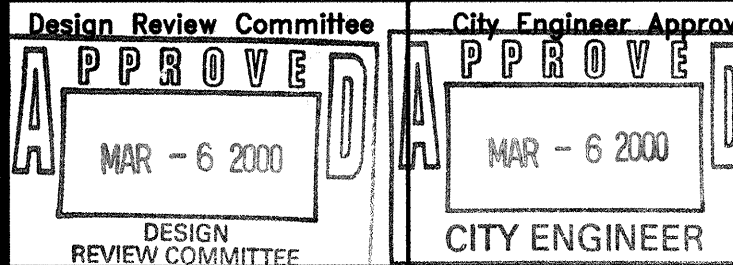
I, THE UNDERSIGNED, A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE INDICATED RECORD DRAWINGS ARE BASED UPON INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR IN THE FORM OF RED-LINED CONSTRUCTION DRAWING MARKUPS TO THE ORIGINAL DESIGN DRAWINGS. THE TRANSFER OF INFORMATION HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. HOWEVER, I HAVE NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THE INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND SHALL NOT BE RESPONSIBLE FOR ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. ALL INFORMATION INCLUDING VERTICAL AND HORIZONTAL DIMENSIONS SHOULD BE FIELD VERIFIED PRIOR TO USE ON FUTURE PROJECTS.

BASIS OF DESIGN

- PIPE MATERIAL = PVC
- TEST PRESSURE = 150 PSI
- SOIL TYPE = "SM" (ASTM STANDARD D24870)
- TRENCH TYPE & BEDDING = TYPE 4, (ANSI/AWWA C150/A21.50)
- PIPE COVER = 3' MINIMUM



TITLE: EDITH BOULEVARD WATERLINE REPLACEMENT FROM CANDELARIA ROAD TO RANKIN ROAD RESTRAINED JOINT DETAILS & WATER SHUTOFF PLAN



City Project No. 6328.91 Zone Map No. N/A Sheet 5 of 7

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 OCCUPANCY 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 ITS PLACEMENT AND MAINTENANCE.

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

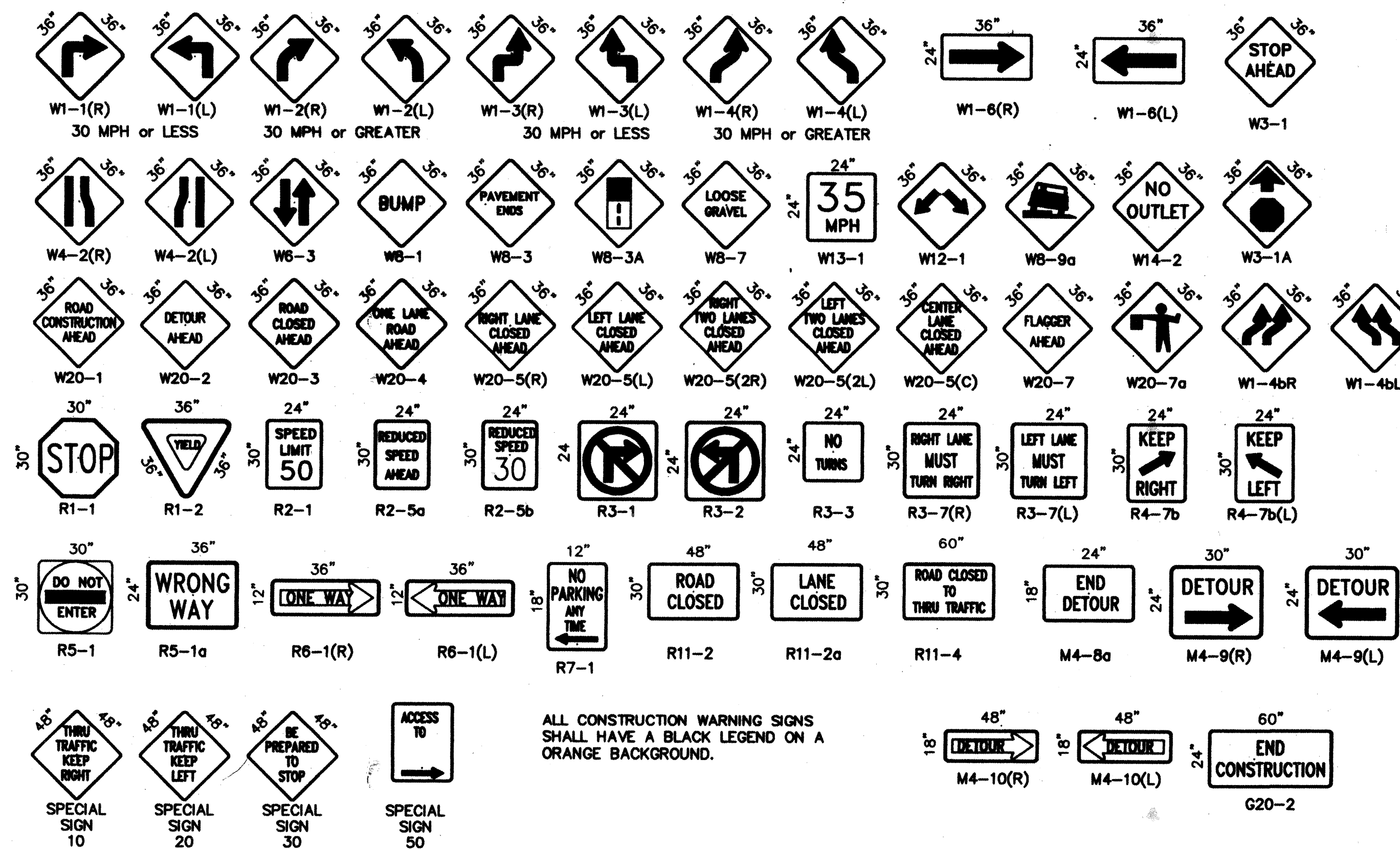
26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.

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

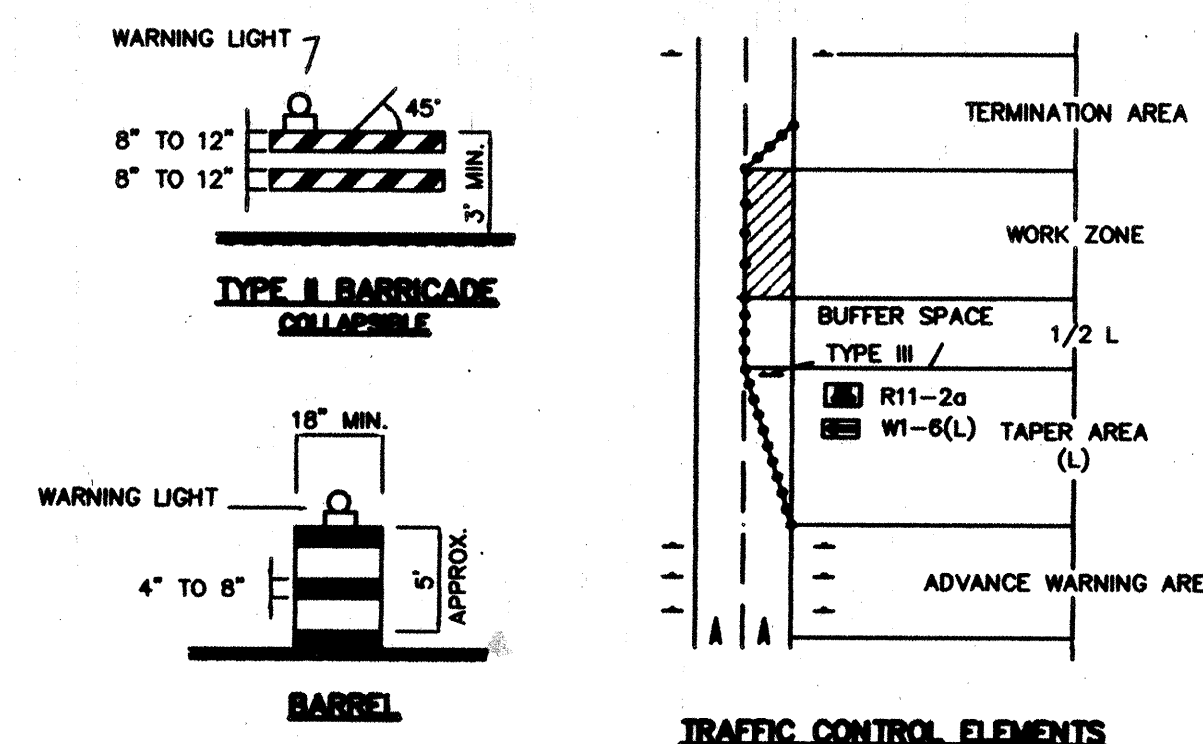
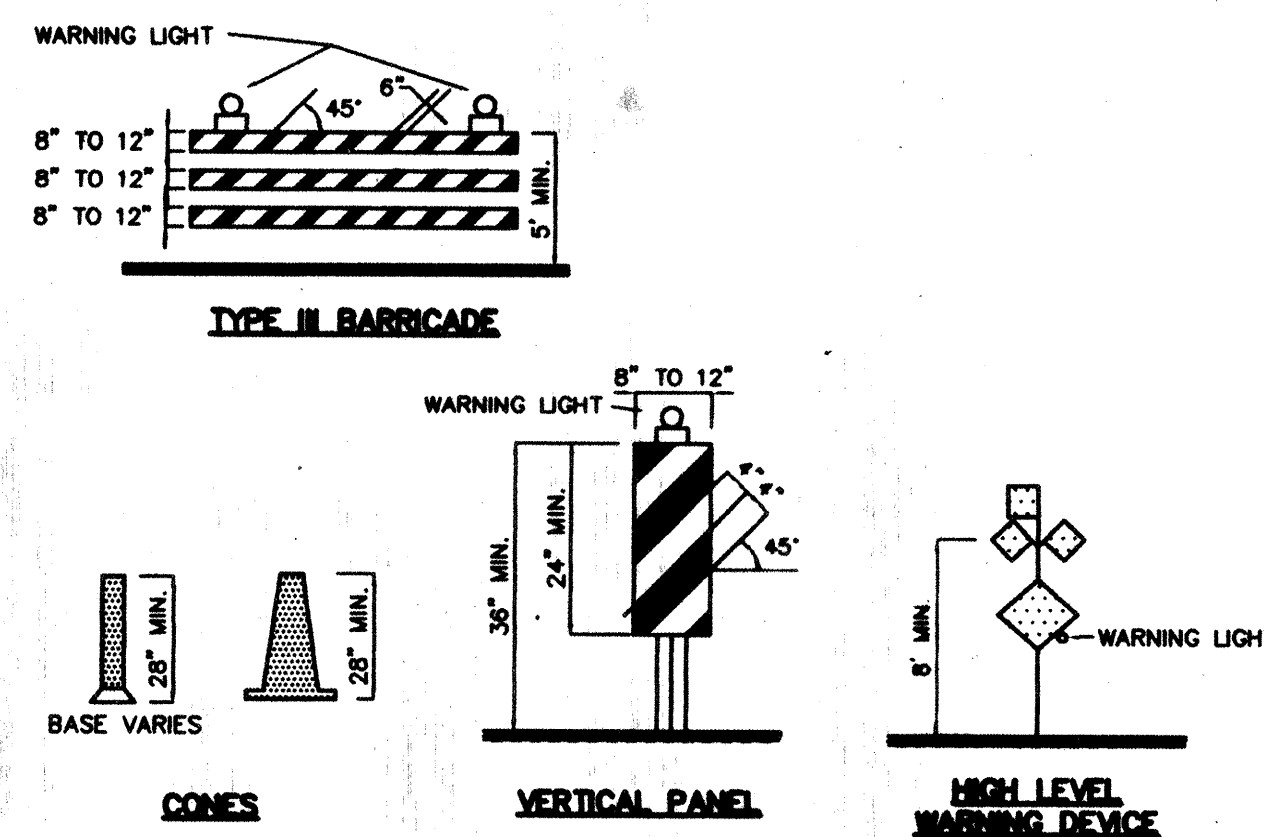
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SIGN FACE DETAILS



ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON AN 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 LIMIT (MPH)	MINIMUM DISTANCE IN FEET	
	BETWEEN SIGNS	FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

TAPER CRITERIA

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

TAPER LENGTH COMPUTATION

SPEED LIMIT	L =
40 MPH OR LESS	$L = \frac{W^2}{60}$
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

26 6328.91 0605

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
N/A			
PROJECT NO.	6328.91	MAP NO.	N/A
SHEET	6	OF	7

