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Title Sheet

$$Plat$$

Water/Sanitary Sewer Improvements Plan

Water/Sanitary Sewer Improvements Profiles

Traffic (1 of 2)

Traffic (2 of 2)

Sheet 1 of 6

Sheet 2 of 6

Sheet 3 of 6

Sheet 4 of 6

Sheet 5 of 6

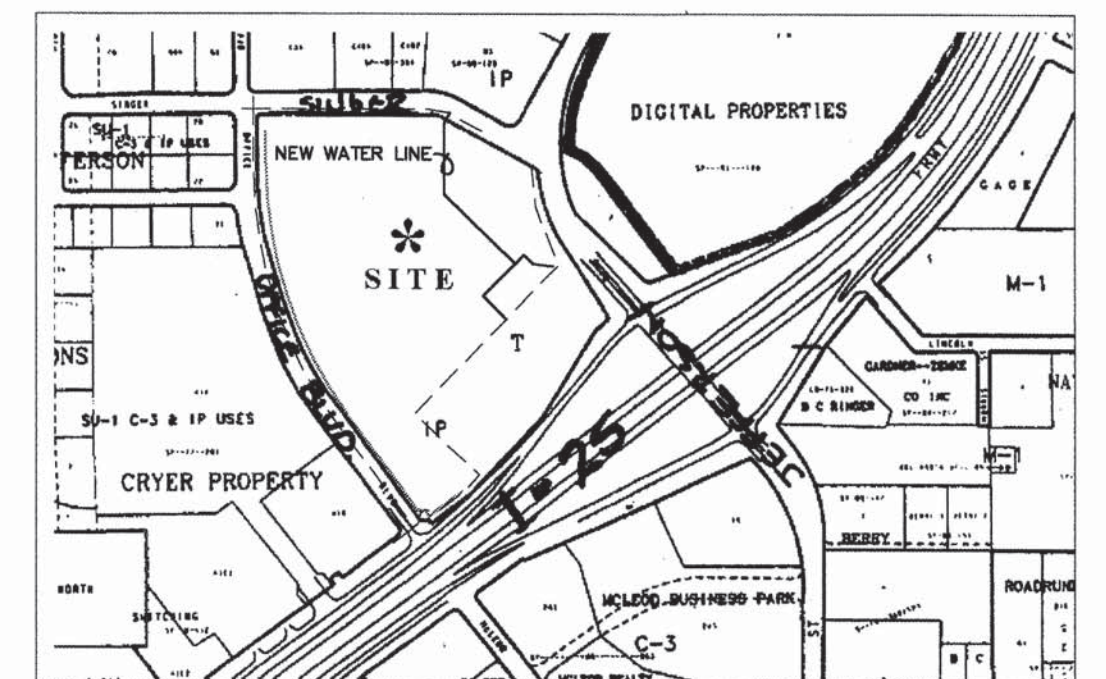
Sheet 6 of 6

Ronald A. Forstbauer, P.S. 6126 Date 5/29/03

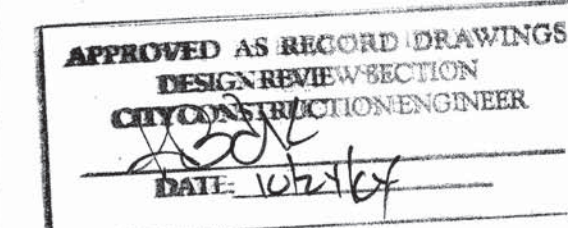
D.R.B. # 1001569

GENERAL NOTES:	
<p>1. ALL WORK TO BE IN ACCORDANCE WITH THE LATEST EDITION OF CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. 1986 EDITION SHALL INCLUDE UPDATE NO. 6.</p> <p>2. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS.</p> <p>3. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY COSTS INCURRED FOR REPAIRS SHALL BE THE COST OF THE CONTRACTOR.</p> <p>4. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.</p> <p>5. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E. BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION, ETC.).</p> <p>6. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING DEPARTMENT PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.</p> <p>7. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.</p> <p>8. FOR PURPOSES OF THIS PROJECT THE TERM ENGINEER SHALL REFER TO EITHER THE OWNER'S EMPLOYEE OR THE CONSTRUCTION OBSERVER RESPONSIBLE FOR CONSTRUCTION INSPECTION OF THE PROJECT.</p>	<p>9. FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM CONSTRUCTION COORDINATION DIVISION. THE CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.</p> <p>10. THE WATER SYSTEMS DIVISION (857-8200) SHALL BE NOTIFIED FIVE (5) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT EXISTING PUBLIC WATER FACILITIES. THE CONTRACTOR SHALL ALSO COORDINATE FOR VALVE OPERATION FOR WATER SHUTOFF.</p> <p>11. THE CONTRACTOR SHALL CONTACT NEW MEXICO ONE CALL SYSTEM, PHONE: 260-1990, TO LOCATE UNDERGROUND UTILITIES TWO (2) WORK DAYS PRIOR TO BEGINNING EXCAVATION.</p> <p>12. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION SHALL BE COORDINATED WITH THAT UTILITY COMPANY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM REQUIRED WORK.</p> <p>13. ALL EXISTING IMPROVEMENTS ARE TO REMAIN, UNLESS SPECIFICALLY NOTED TO BE REMOVED. CONTRACTOR SHALL REPAIR ANY CONTRACTOR-CAUSED DAMAGE, AS DETERMINED BY THE ENGINEER TO EXISTING IMPROVEMENTS TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.</p> <p>14. ALL REFERENCES TO COMPACTED BACKFILL OR COMPACTED SUB-GRADE SHALL MEAN SOIL COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 UNLESS OTHERWISE NOTED.</p>
<p>15. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CHECK ALL DIMENSIONS, HORIZONTAL AND VERTICAL, AND SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION SO THAT CONFLICT CAN BE RESOLVED WITH THE MINIMUM AMOUNT OF DELAY.</p> <p>16. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK, IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY OF ALBUQUERQUE SURVEY SECTION, WHEN A CHANGE IS MADE IN THE FINISH ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO NEW GRADE, UNLESS OTHERWISE SPECIFIED.</p> <p>17. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.</p>	<p>4. WHEN ABUTTING NEW CURB AND GUTTER TO EXISTING PAVEMENT, A 1'-WIDE SECTION OF EXISTING PAVEMENT ADJACENT TO THE CURB AND GUTTER SHALL BE NEATLY SAW CUT, REMOVED AND REPLACED.</p> <p>5. PAVING AND ROADWAY GRADES SHALL BE $\pm 0.05'$ FROM ELEVATIONS SHOWN ON PLANS.</p>
<p>GRADING NOTES:</p>	
<p>1. THE CONTRACTOR MUST CONFORM TO ALL COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS, PERMITS AND APPROVALS. THE COST FOR REQUIRED MEASURES SHALL BE INCIDENTAL TO THE PROJECT COSTS.</p> <p>2. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY. THIS SHOULD BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AT THE PROPERTY LINES AND WETTING THE SOIL TO PREVENT WIND EROSION.</p> <p>3. A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL AND UNSUITABLE MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE CONSTRUCTION OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.</p>	<p>TRAFFIC CONTROL NOTE:</p> <p>1. THE CONTRACTOR SHALL CONTACT TRAFFIC ENGINEERING OPERATIONS AT 857-8000 FOR REMOVAL AND REPLACEMENT OF TRAFFIC SIGNS.</p>
<p>STORM DRAIN NOTE:</p>	
<p>1. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR TO LOCATION AND IN KIND AS EXISTING OR AS INDICATED THIS PLAN</p> <p>2. ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR (24) HOUR CONSTRUCTION.</p> <p>3. ALL PAVEMENT TO BE REMOVED SHALL BE SAW CUT, HAVE A UNIFORM EDGE AND BE SPRAYED WITH TACK.</p>	<p>1. FOR STORM DRAIN CONSTRUCTION, RCP PIPE JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.</p>

I, CHRISTOPHER L. WEISS OF THE FIRM OF C.L. WEISS ENGINEERS, INC., 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 RON FORSTBAUER OF FORSTBAUER SURVEYING CO., N.M.P.S. NUMBER 6126.

VICINITY MAP F-17
1" = 800'

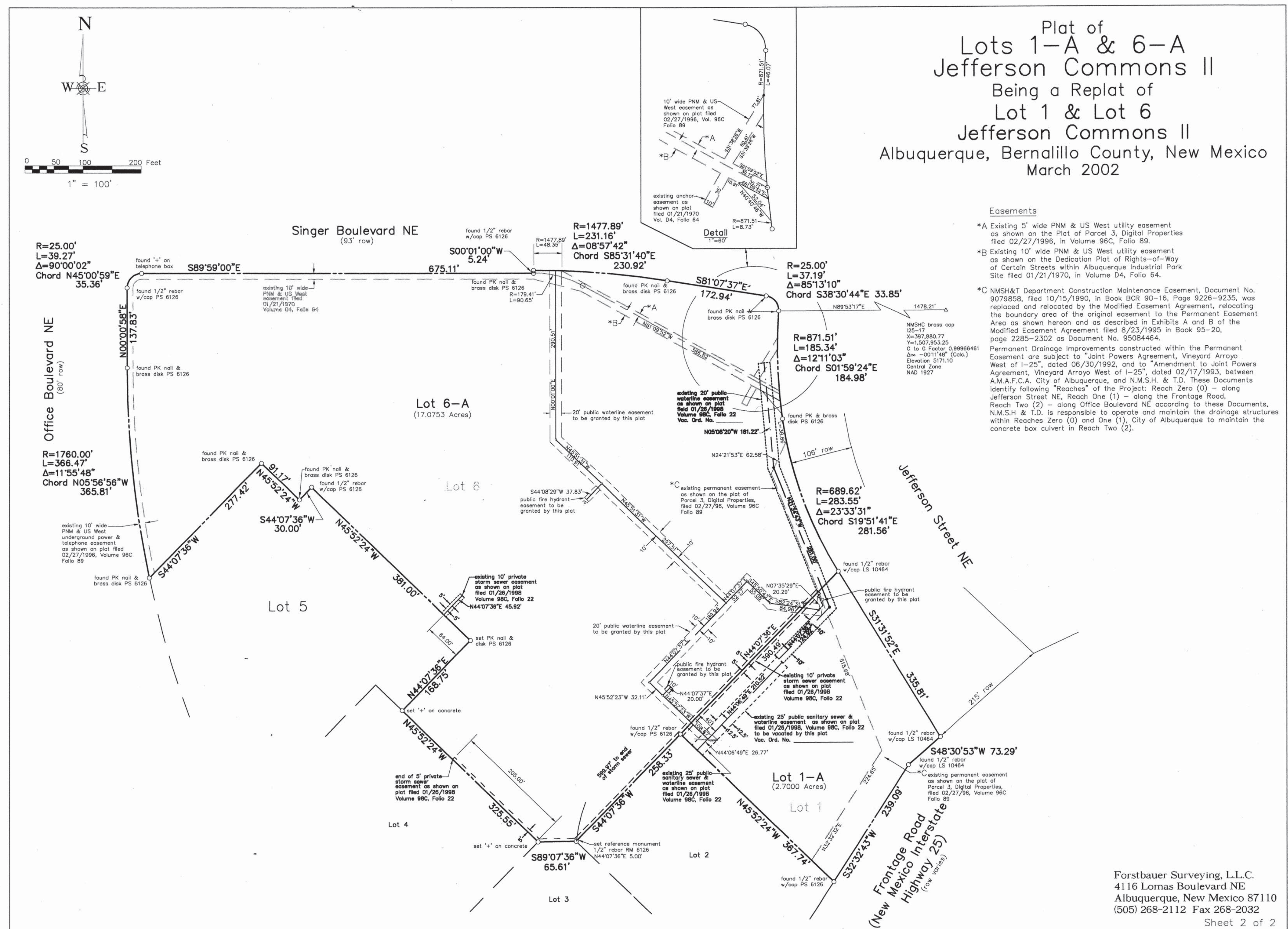
<input checked="" type="checkbox"/>	ALL UTILITIES AND UTILITY LINES SHALL BE INSTALLED BACKFILL TO PAVING.
<input checked="" type="checkbox"/>	BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
<input type="checkbox"/>	TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
<input type="checkbox"/>	SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
<input type="checkbox"/>	IF CURB IS DERESSED FOR A DRIVE PAD, THE DRIVE PAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
<input type="checkbox"/>	ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.



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[illegible]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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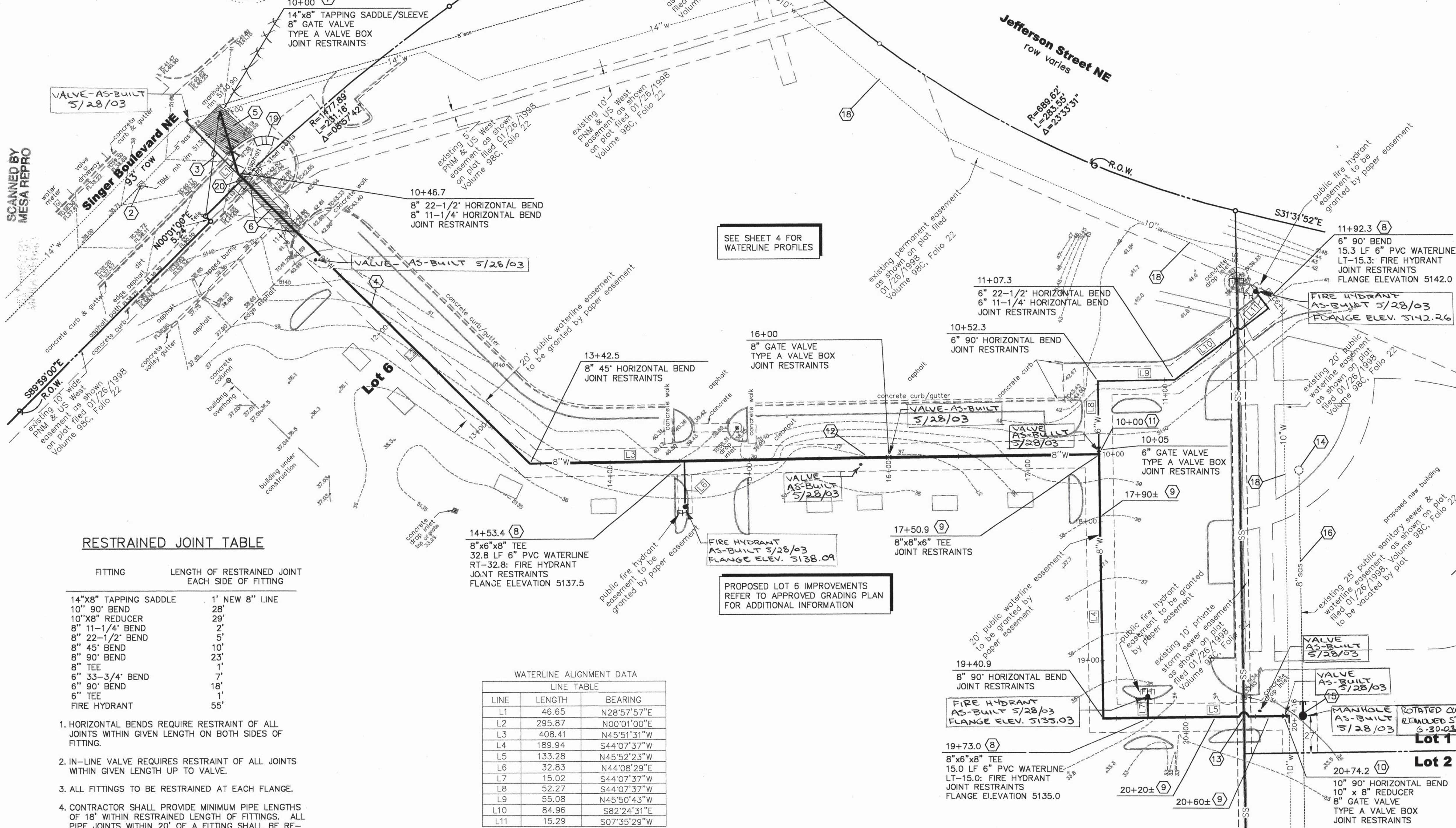


FINAL PLAT TO BE FILED UPON COMPLETION
FOR INFORMATION ONLY
AND ACCEPTANCE BY COA.

City Project No.	Zone Map No.	Sheet	Of
680481	F-17	2	6

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, CHRISTOPHER L. WEISS OF THE FIRM OF C.L. WEISS ENGINEERING, INC., 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 RON FORSTBAUER OF FORSTBAUER SURVEYING CO., N.M.P.S. NUMBER 6126.



RESTRAINED JOINT TABLE

FITTING	LENGTH OF RESTRAINED JOINT EACH SIDE OF FITTING
14"x8" TAPPING SADDLE	1' NEW 8" LINE
10" 90° BEND	28'
10"x8" REDUCER	29'
8" 11-1/4" BEND	2'
8" 22-1/2" BEND	5'
8" 45° BEND	10'
8" 90° BEND	23'
8" TEE	7'
6" 33-3/4" BEND	1'
6" 90° BEND	18'
6" TEE	1'
FIRE HYDRANT	55'

- HORIZONTAL BENDS REQUIRE RESTRAINT OF ALL JOINTS WITHIN GIVEN LENGTH ON BOTH SIDES OF FITTING.
- IN-LINE VALVE REQUIRES RESTRAINT OF ALL JOINTS WITHIN GIVEN LENGTH UP TO VALVE.
- ALL FITTINGS TO BE RESTRAINED AT EACH FLANGE.
- CONTRACTOR SHALL PROVIDE MINIMUM PIPE LENGTHS OF 18' WITHIN RESTRAINED LENGTH OF FITTINGS. ALL PIPE JOINTS WITHIN 20' OF A FITTING SHALL BE RESTRAINED AT CONTRACTOR'S EXPENSE.
- ASSUME 10' PIPE LENGTHS TO JOINTS ON EXISTING 10" AND 14" LINES AT CONNECTION POINTS.

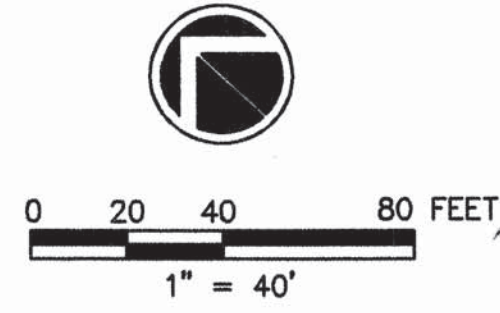
RESTRAINT TABLE ASSUMPTIONS:

ASTM SOIL CLASSIFICATION SM (SAND/SILT MIXTURE)
AWWA TRENCH TYPE 5
DEPTH OF BURY 3' TO TOP OF PIPE
WORKING PRESSURE 100 PSI
TEST PRESSURE 150 PSI
FACTOR OF SAFETY = 1.5 TO 1

WATERLINE ALIGNMENT DATA
LINE TABLE

LINE	LENGTH	BEARING
L1	46.65	N28°57'57"E
L2	295.87	N00°01'00"E
L3	408.41	N45°51'31"W
L4	189.94	S44°07'37"W
L5	133.28	N45°52'23"W
L6	32.83	N44°08'29"E
L7	15.02	S44°07'37"W
L8	52.27	S44°07'37"W
L9	55.08	N45°50'43"W
L10	84.96	S82°24'31"E
L11	15.29	S07°35'29"W

JEFFERSON COMMONS II LOT 6
WATER/SANITARY SEWER IMPROVEMENTS PLAN
REFER TO PLAT FOR PROPERTY DESCRIPTION



SURVEYOR'S CERTIFICATION

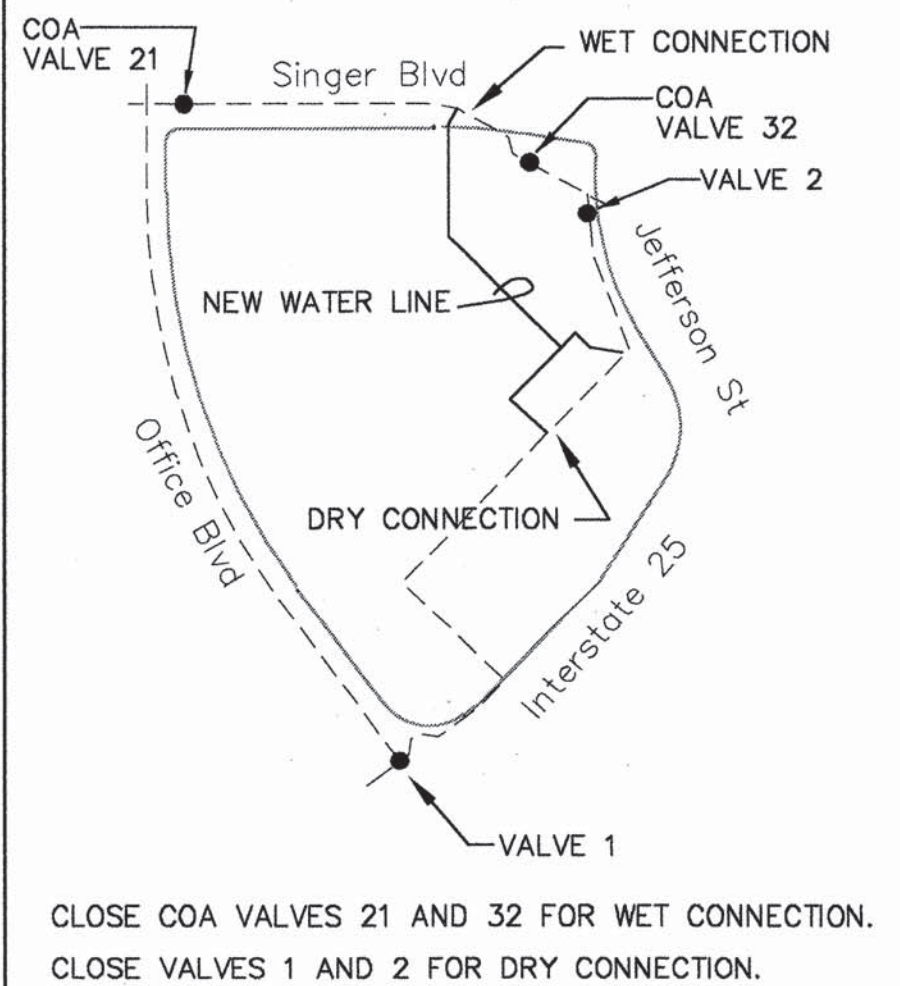
I, Ronald A. Forstbauer, a duly qualified Licensed Professional Land Surveyor under the laws of the State of New Mexico, do hereby certify that the "as-built" information shown on these drawings was obtained from field construction and surveying surveys performed by me or under my supervision; that the "as-built" information shown on these drawings was added by me or under my supervision; and that the "as-built" information is true and correct to the best of my knowledge and belief. As-built verification, as indicated herein, is based on field surveying of water and sanitary sewer improvements performed May 28, 2003, and does not include underground improvements except as specified herein. Forstbauer Surveying LLC is not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.

Ronald A. Forstbauer, P.S. 6126 Date 5/29/03

KEYED NOTES

- PROJECT BASIS OF BEARINGS IS NORTH PROPERTY LINE. (REFER TO PLAT).
- TEMPORARY BENCHMARK IS CENTER OF EXISTING SINGER BOULEVARD SAS MANHOLE. ELEVATION = 5139.50. (N.G.V.D. 1929) NOTE: CONTRACTOR TO REESTABLISH CONSTRUCTION BENCHMARKS AS REQUIRED.
- 8" WATERLINE STA 10+00 IS LOCATED N 52°56'30" E, 75.83' FROM INDICATED PROPERTY CORNER.
- INSTALL 1074 LF 8" PVC WATERLINE. SEE COA STD. DWGS. 2301 AND 2315. REFER TO LINE TABLE THIS SHEET FOR ALIGNMENT DATA.
- REMOVE AND REPLACE 670 SF ARTERIAL PAVEMENT AND 24 LF 8" STANDARD CURB AND GUTTER PER COA STD. DWGS. 2415 AND 2465.
- REMOVE AND REPLACE 370 SF ASPHALT PAVEMENT, 20 LF 6" MEDIAN CURB AND GUTTER AND 10 LF CONCRETE VALLEY GUTTER PER COA STD. DWGS. 2415 AND 2465.
- WET CONNECTION TO EXISTING 14" C.I. WATERLINE.
- INSTALL FIRE HYDRANT 18" BEHIND BACK OF CURB. SEE COA STD. DWGS. 2325, 2333 AND 2340.
- PROVIDE VERTICAL BEND AS REQUIRED.
- DRY CONNECTION TO EXISTING 10" WATERLINE. CAP NE LEG OF NEW TEE AND ABANDON 10" LINE IN PLACE.
- BEGIN 192 LF NEW 6" PVC WATERLINE.
- FILL DEPRESSED AREA TO FINISHED GRADE AFTER INSTALLING NEW WATER LINE.
- CROSS UNDER EXISTING PRIVATE 30" STORM DRAIN AT 20+40.7. PROVIDE VERTICAL BENDS AS REQUIRED.
- REMOVE AND DISPOSE OF EXISTING SANITARY SEWER MANHOLE.
- CONSTRUCT NEW TYPE E 4' DIA. SANITARY SEWER TERMINAL MANHOLE INLINE ON EXISTING 8" SEWER LINE. LOCATE AS SHOWN AND MATCH EXISTING INVERT. SEE COA STD. DWG. 2102. EXTEND 10 LF 6" SAS STUB FOR SERVICE TO LOT 1. MATCH EXISTING INVERT.
- ABANDON AND GROUT EXISTING 8" SANITARY SEWER LINE IN PLACE.
- CLOSE EXISTING 10" VALVE. CAP 10" WATER MAIN SOUTH OF VALVE. REMOVE EXISTING VALVE BOX AND BURY.
- ABANDON AND GROUT EXISTING 10" WATER LINE IN PLACE.
- REMOVE PORTION OF EXISTING CURB AND GUTTER AND CONSTRUCT WHEEL CHAIR RAMP (CASE II) AT EXISTING CURB RETURN PER C.O.A. STD. DWG. 2441.
- REMOVE AND REPLACE 10 LF ASPHALT WALK THIS AREA. MATCH TOP OF ASPHALT FOR SMOOTH TRANSITION.

WATER VALVE SHUTOFF PLAN



CLOSE COA VALVES 21 AND 32 FOR WET CONNECTION.
CLOSE VALVES 1 AND 2 FOR DRY CONNECTION.



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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JEFFERSON COMMONS II LOT 6
WATER/SANITARY SEWER IMPROVEMENTS

Design	Review	Committee	City Engineer	Approval	Month / Day / Year	Month / Day / Year
DESIGN REVIEW COMMITTEE						
CITY PROJECT NO.	680481	ZONE MAP NO.	F-17	SHEET	3	OF 6



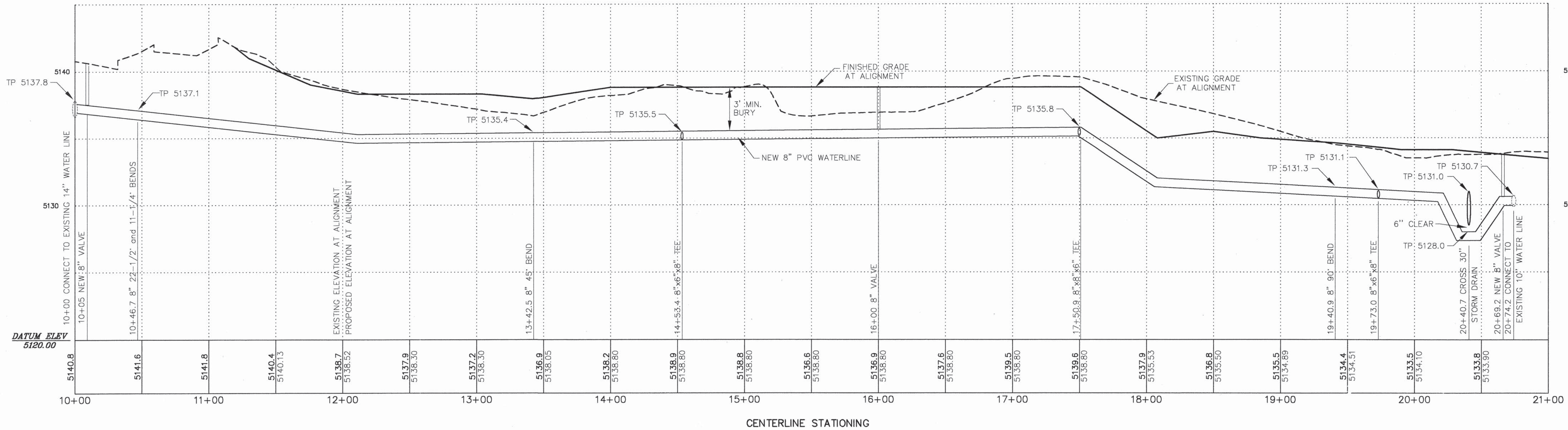
ENGINEER'S SEAL
DATE 12/01
DESIGNED BY SOC
DATE 12/01
DRAWN BY SOC
DATE 12/01
CHECKED BY CLW

lot6water3.dwg 03/28/02 15:27:39

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MESA REPRO

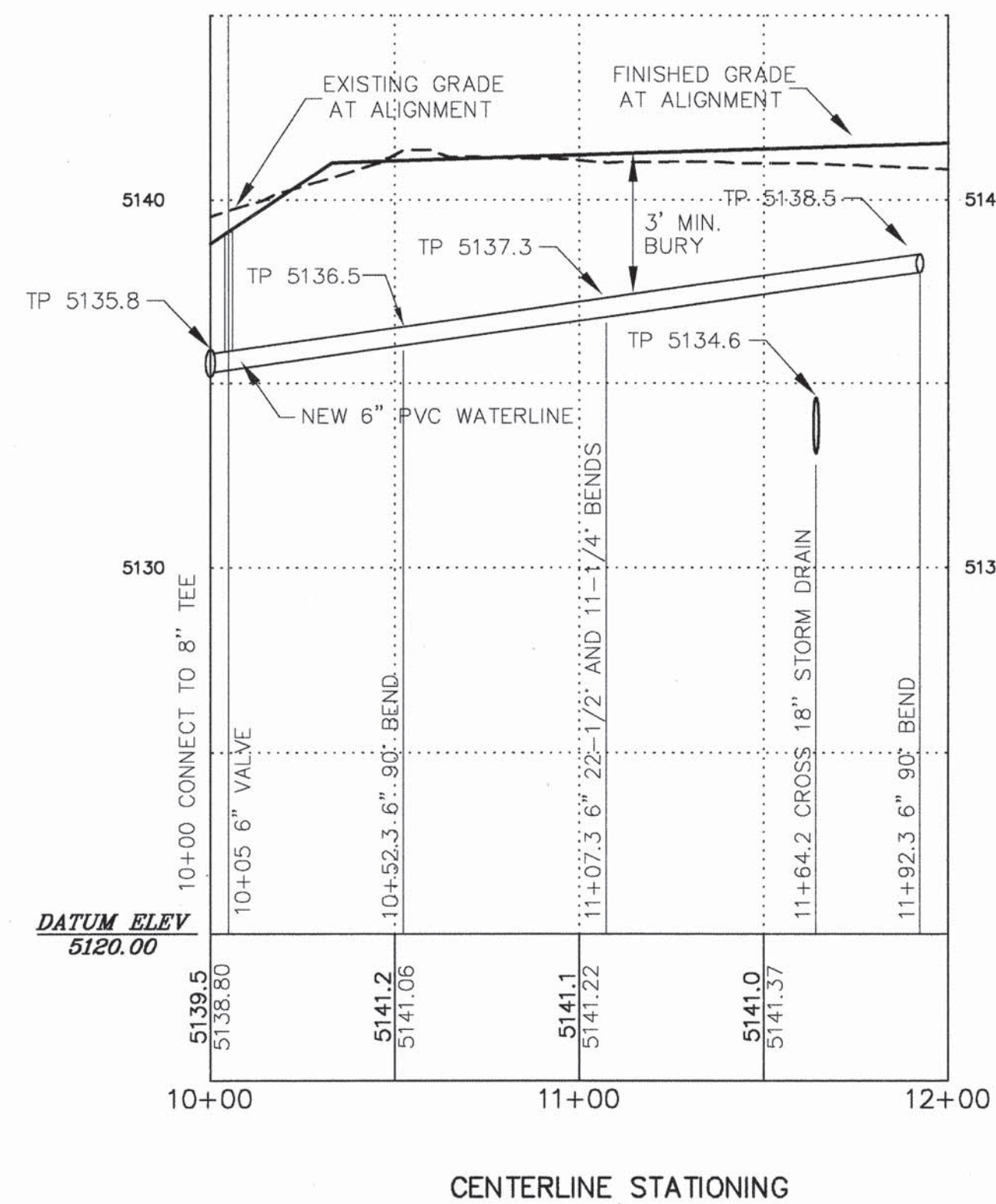
JEFFERSON COMMONS II LOT 6
8" WATERLINE PROFILE


1" = 40' HORIZONTAL
1" = 4' VERTICAL



JEFFERSON COMMONS II LOT 6
6" WATERLINE PROFILE


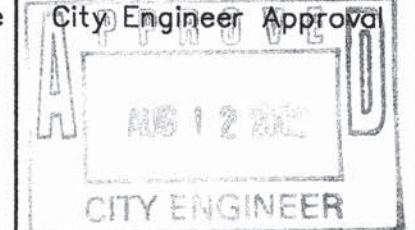
1" = 40' HORIZONTAL
1" = 4' VERTICAL




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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: JEFFERSON COMMONS II LOT 6
WATER/SANITARY SEWER IMPROVEMENTS

Design Review Committee	City Engineer Approval
	
DESIGNED BY: SDC	CHECKED BY: CLW
DRAWN BY: SDC	
DATE: 12/01	DATE: 12/01

City Project No. 680481 Zone Map No. F-17 Sheet 4 Of 6

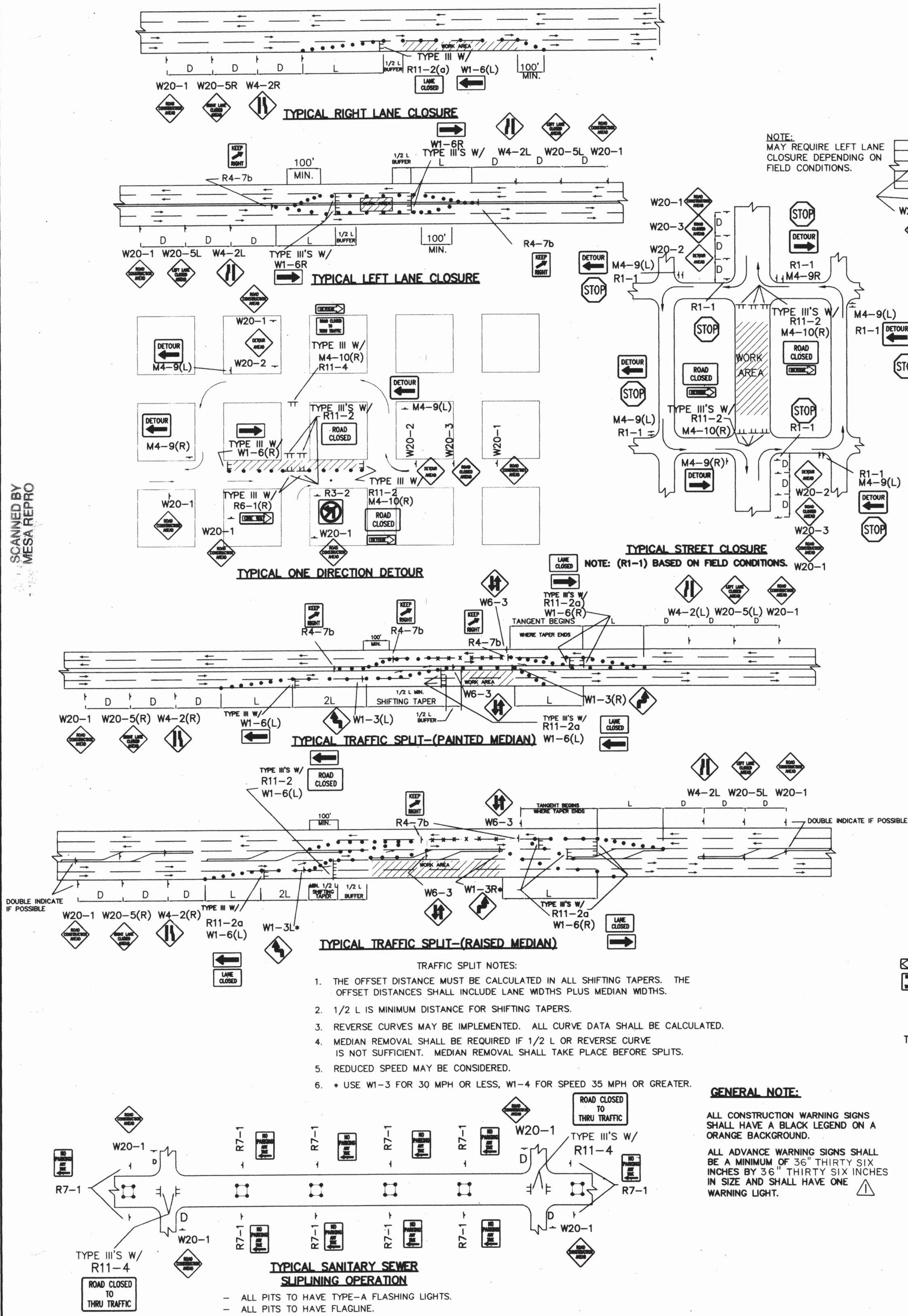


SURVEY INFORMATION	
FIELD NOTES	DATE
BY	

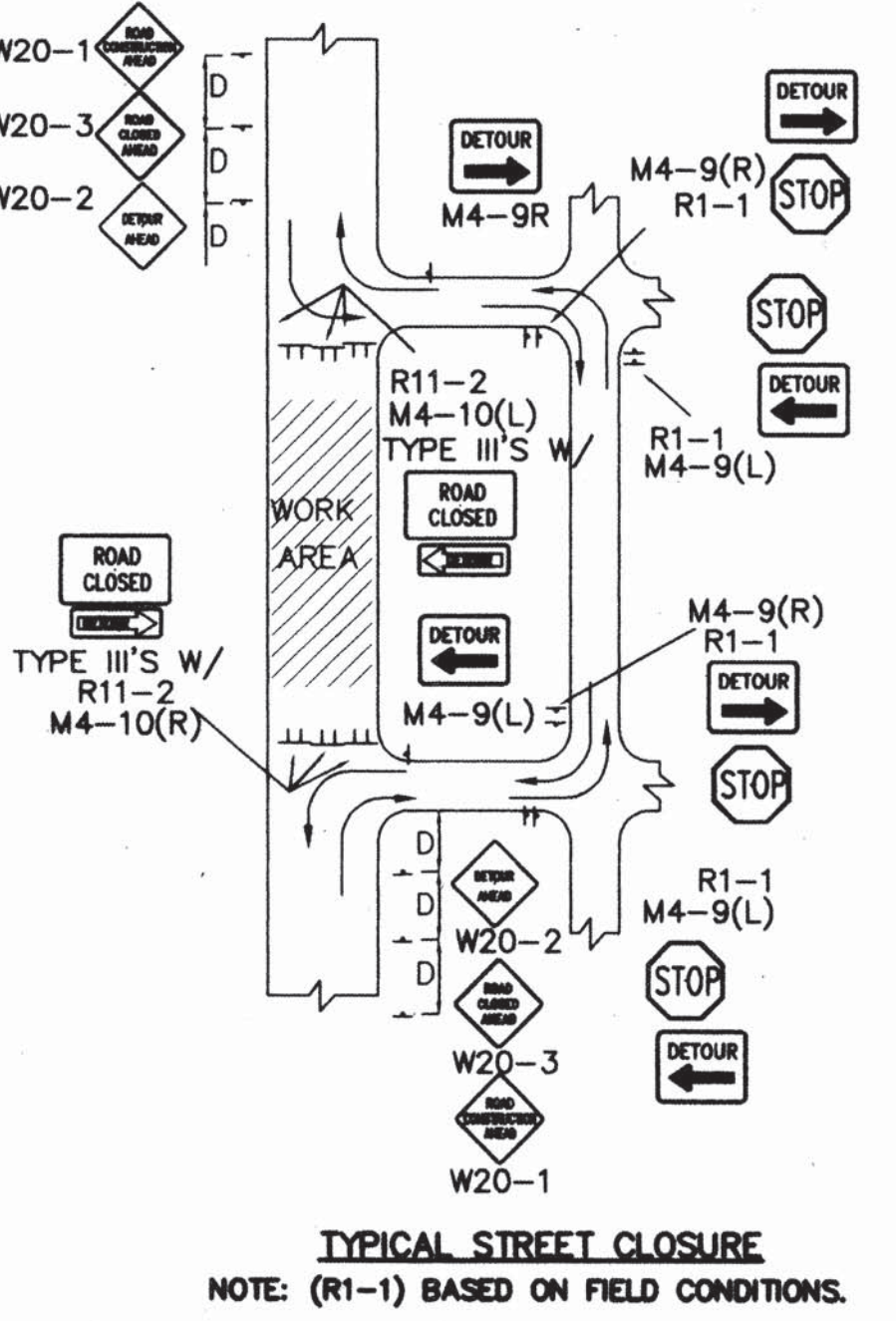
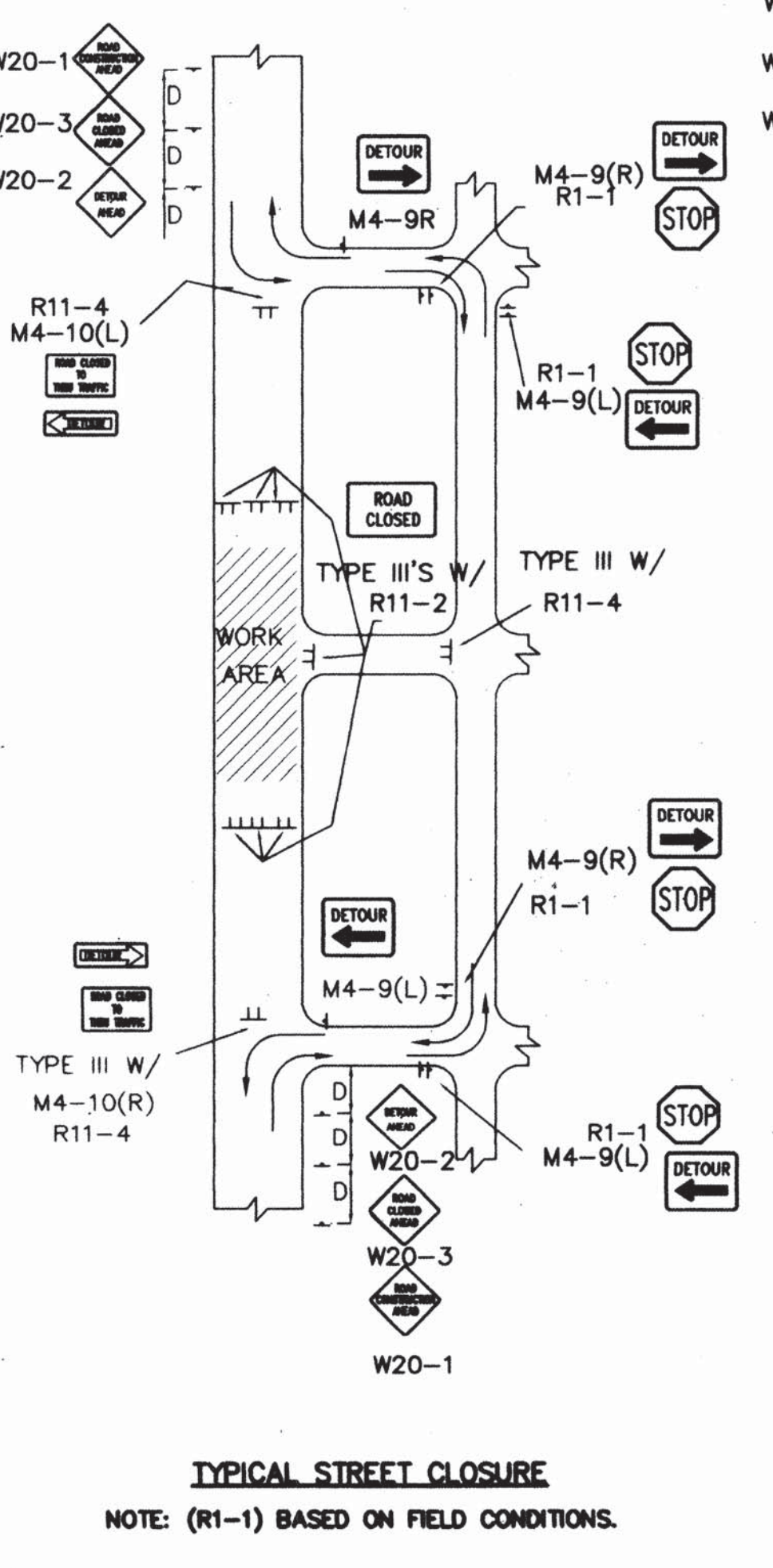
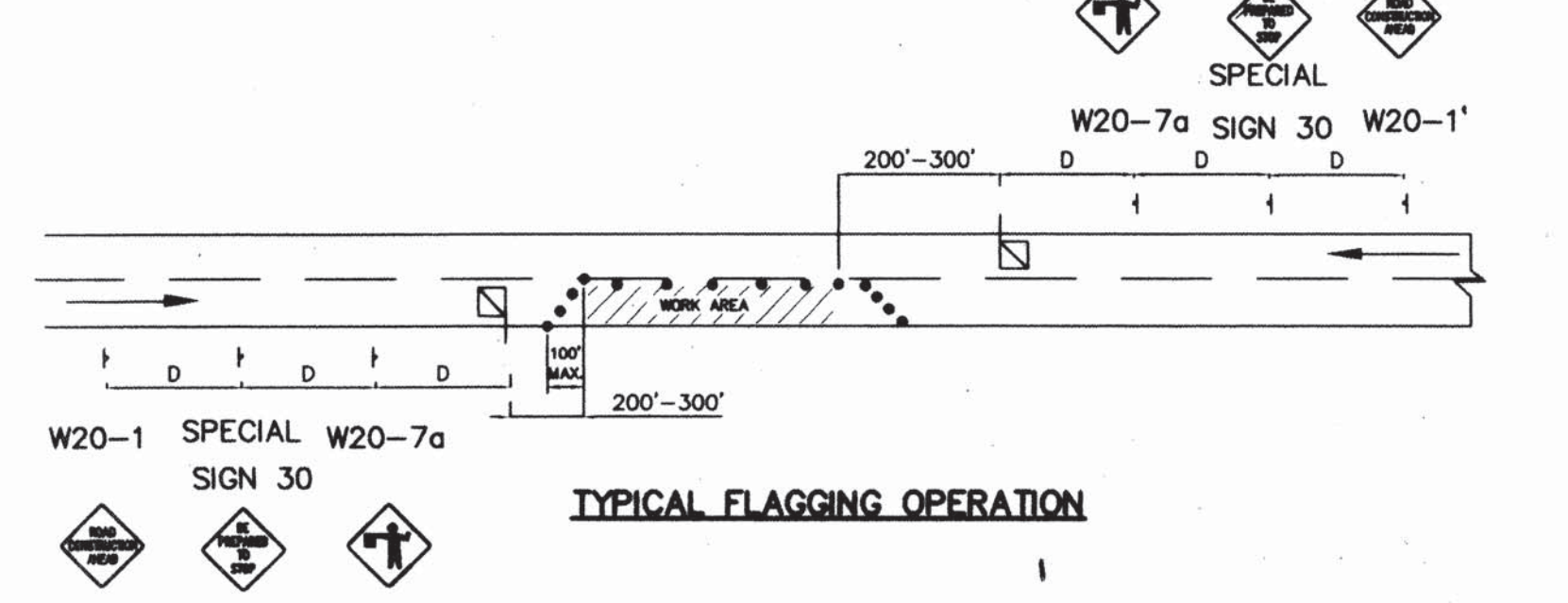
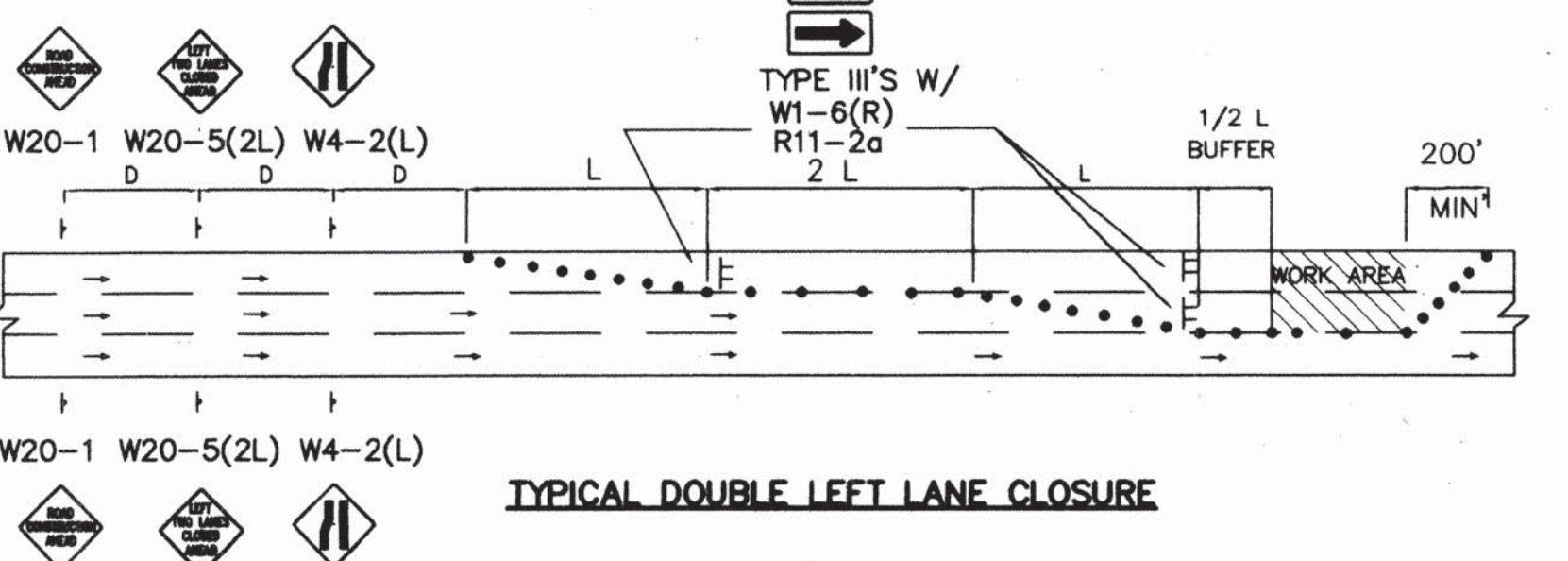
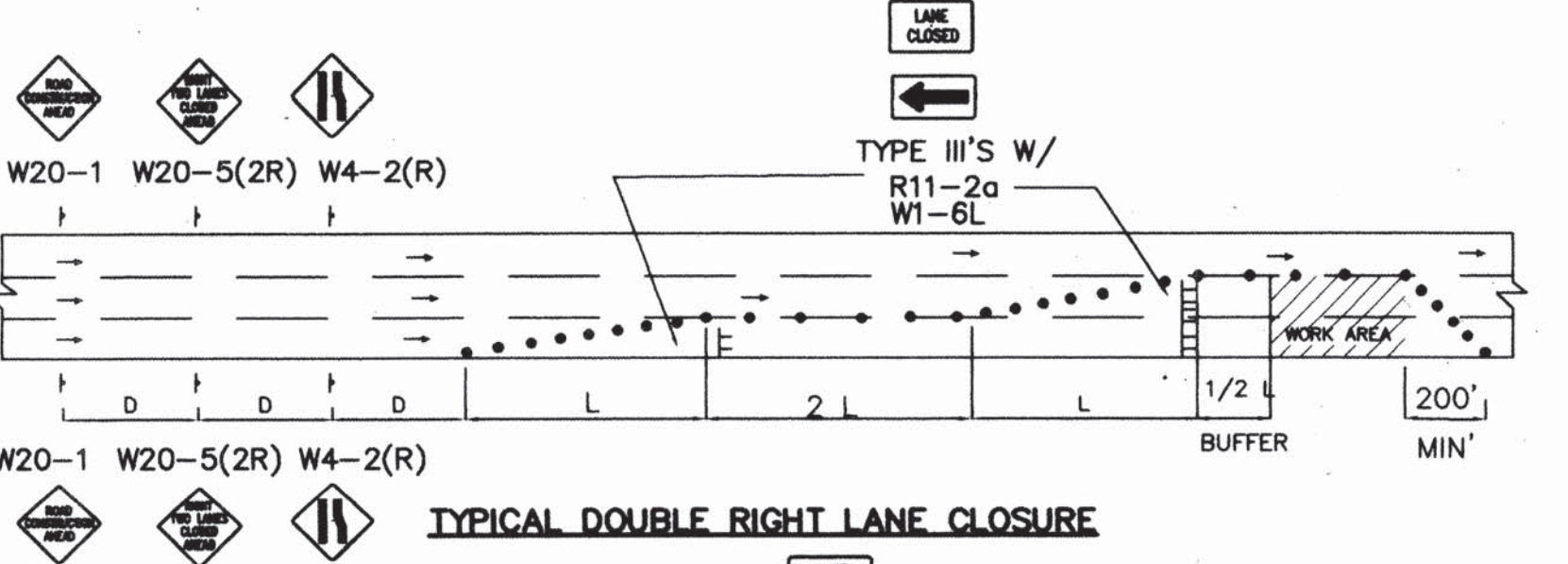
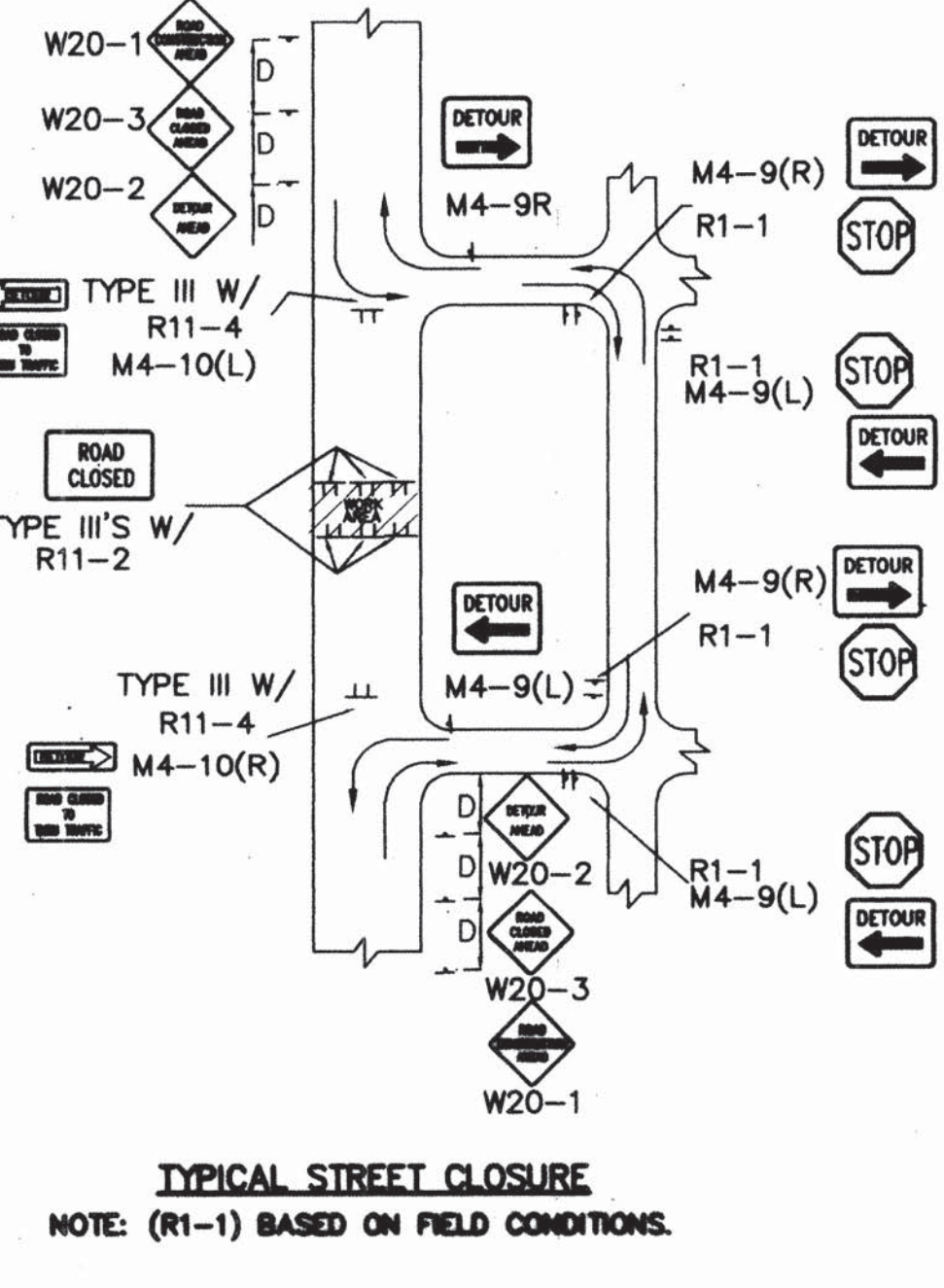
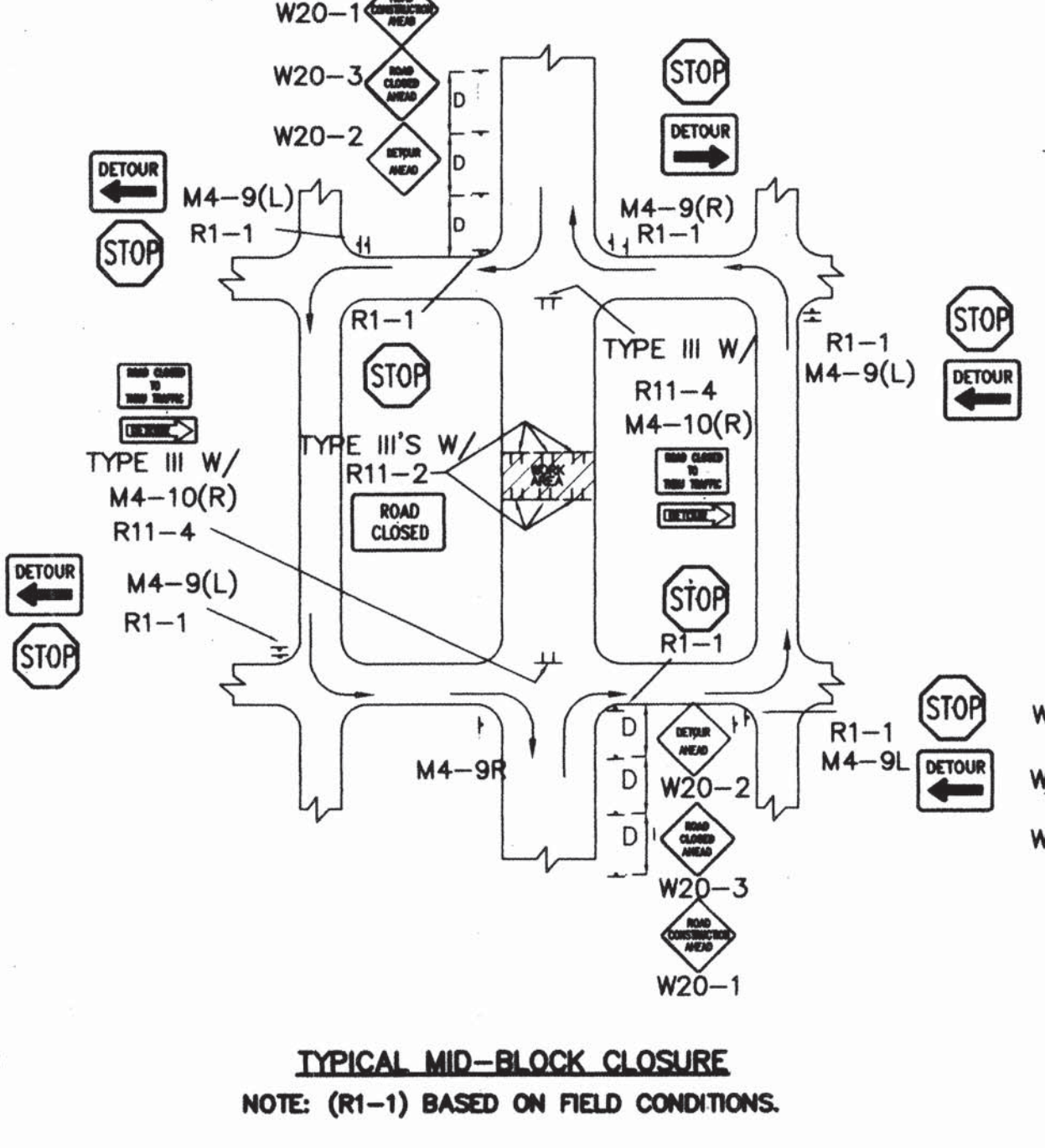
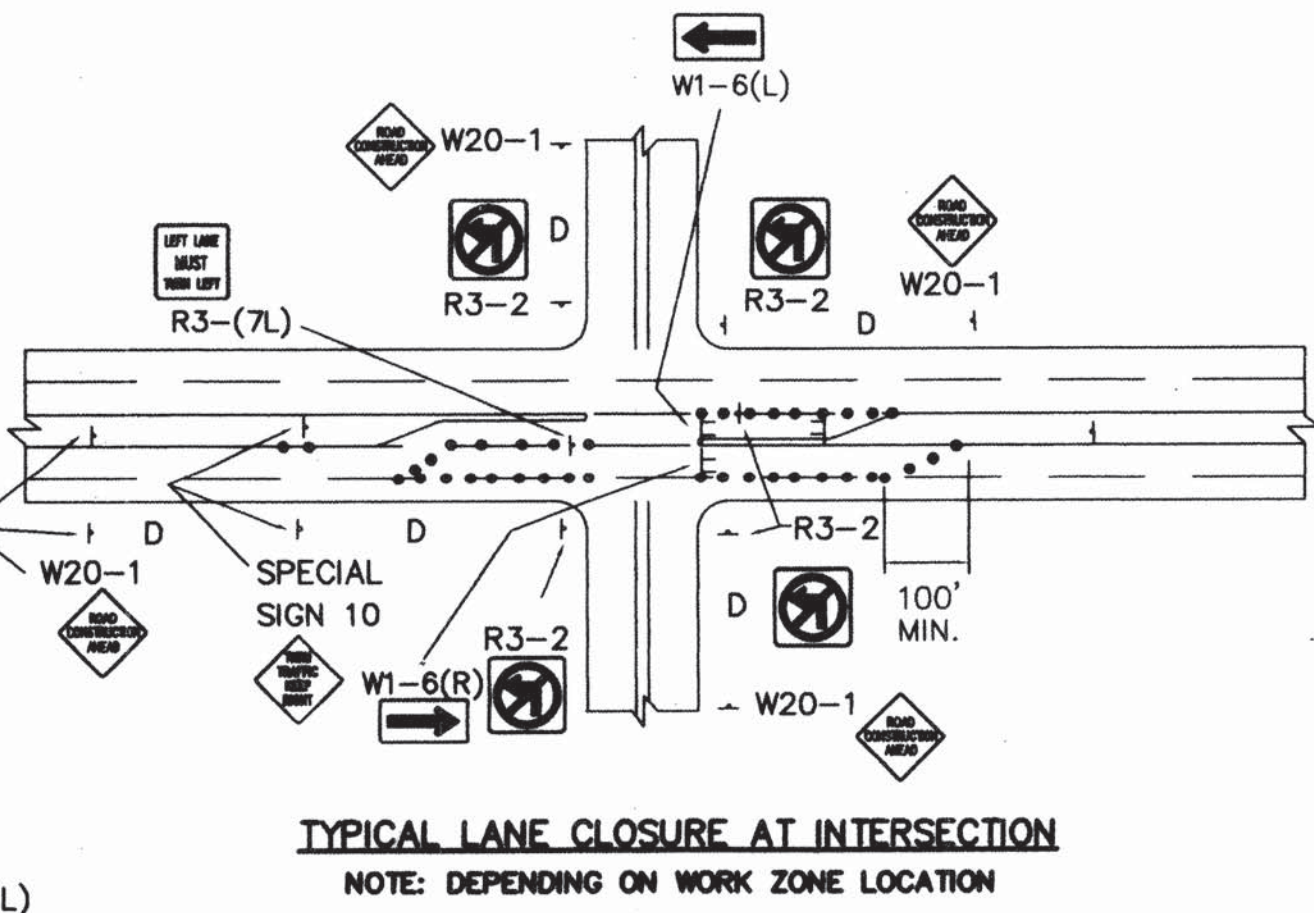
BENCH MARKS	
COA 125-18, AN NMSC BRASS CAP IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND AND LOCATED ON THE I-25 EAST FRONTAGE ROAD, 0.6 MILES NORTH OF ITS INTERSECTION WITH MONTGOMERY BOULEVARD	DATE
NE. ELEVATION = 5125.70. - HORIZONTAL BENCHMARK	DATE
ONLY REFER TO NOTE 2, SHEET 3, FOR T.B.M.	DATE

AS-BUILT INFORMATION	
CONTRACTOR	DATE
WORK STAGED BY	DATE
FIELD ELEVATION BY	DATE
REVISIONS	DATE
CHECKED BY	DATE
RECORDED BY	DATE
NO.	

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MESA REPRO



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



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.)			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR	MO./DAY/YR
COA	STD		
PROJECT NO.	680481	MAP NO.	F.17
SHEET 5		OF 6	

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	WORKS BY	DATE	FIELD NOTES	DATE	NO.	DATE
WORKS BY	DATE	INSPECTOR'S	DATE	BY	DATE		
ACCEPTANCE BY	DATE	VERIFICATION BY	DATE				
DRAWINGS	DATE	REVISIONS	DATE				
DESIGNED BY	DATE	C.O.A. STANDARDS	DATE				
DRAWN BY	DATE		DATE				
CHECKED BY	DATE		DATE				
NO.							

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:
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.

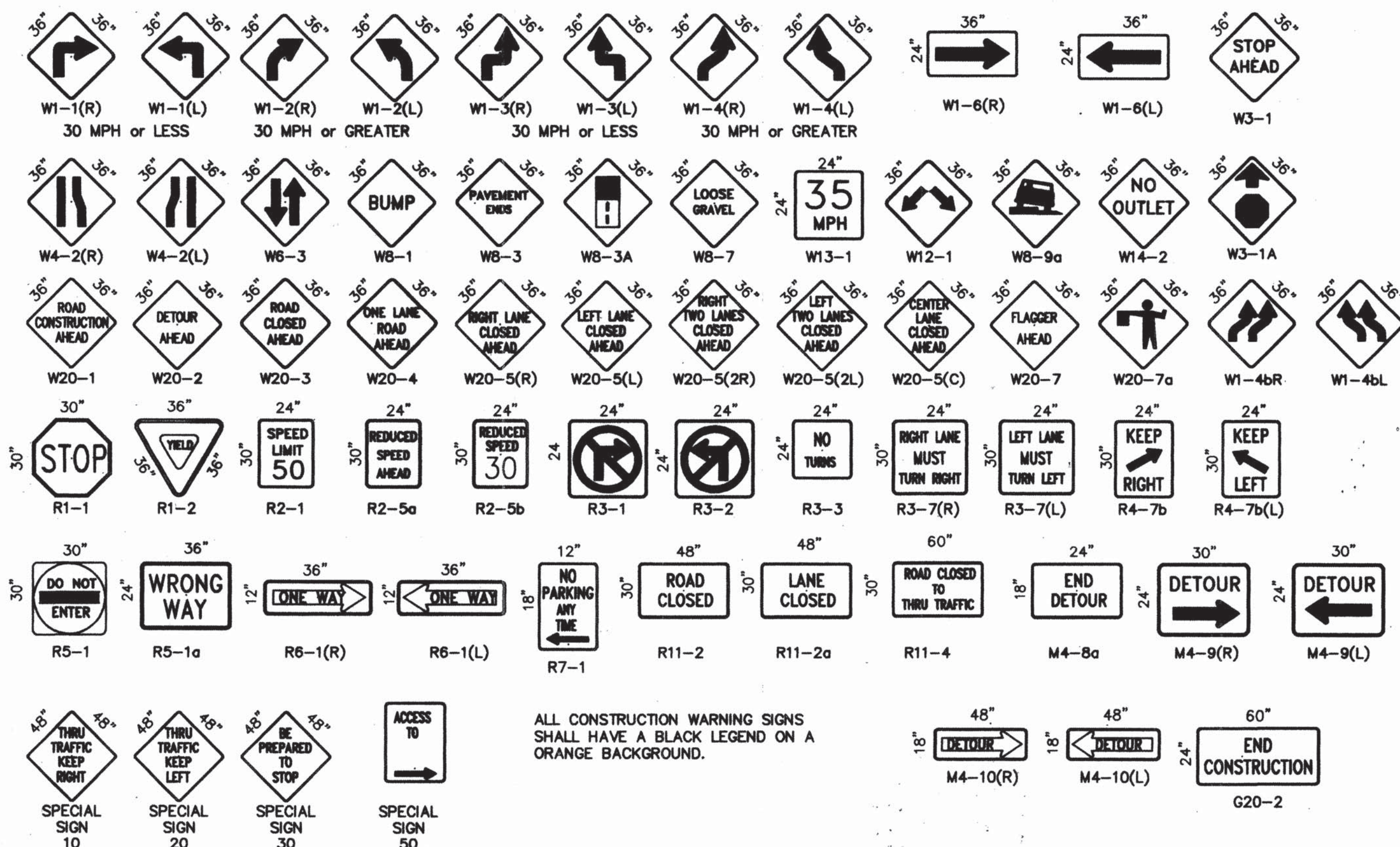
26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.

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

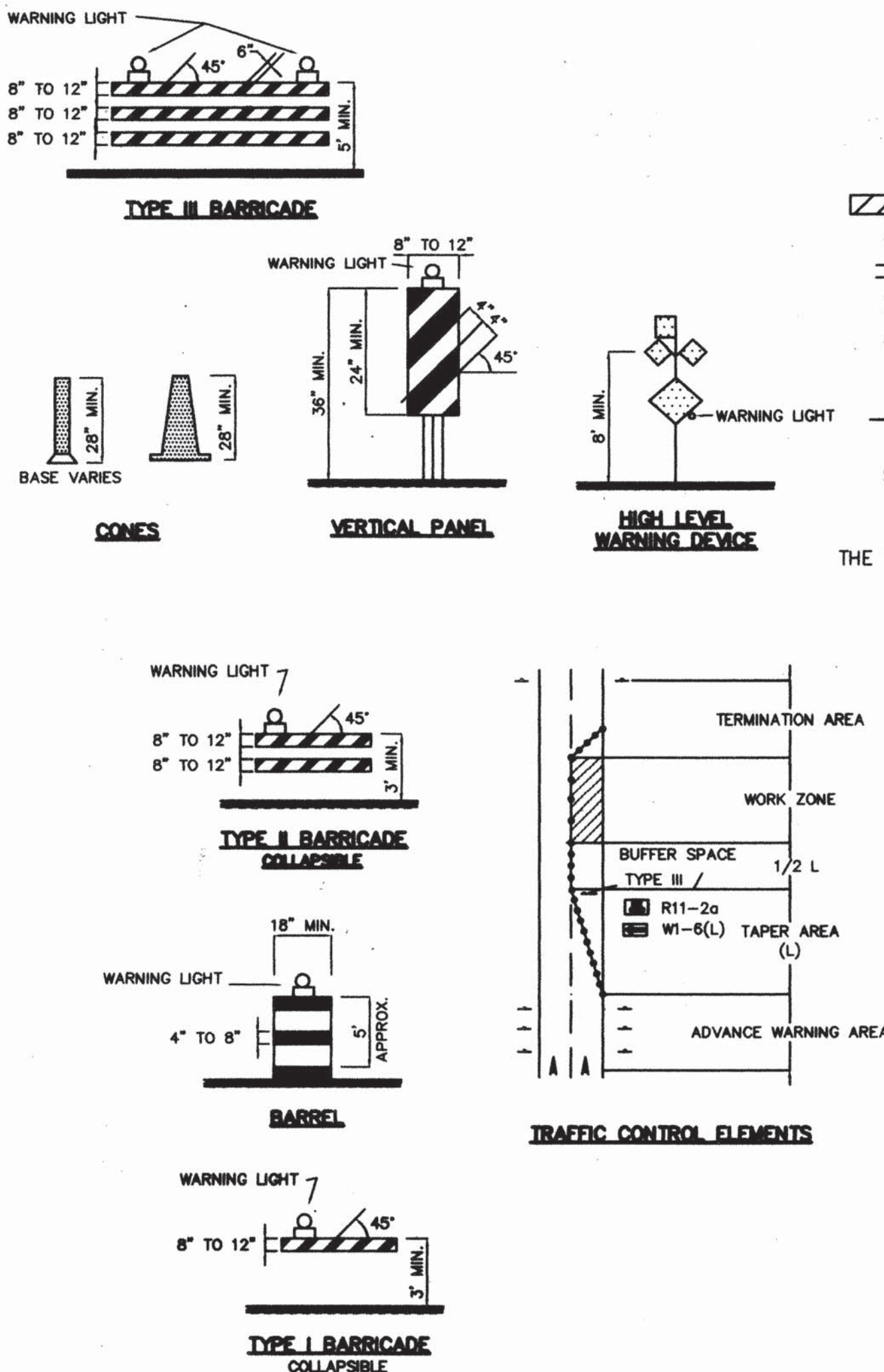
SPECIAL PROJECT TRAFFIC CONTROL NOTE:

TWO-WAY TRAFFIC ON SINGER AVENUE MUST BE MAINTAINED AT ALL TIMES.

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 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	
	FROM LAST SIGN TO TAPER	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
SHIFTER 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

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: **COR** CITY ENGINEER APPROVAL: **STD**

PROJECT NO. **680481** MAP NO. **F-17** SHEET **6** OF **6**

LAST UPDATE:

NO. / DAY / YR.	NO. / DAY / YR.

DESIGNED BY: **REVISIONS**
DRAWN BY: **DESIGN**
CHECKED BY: **DATE**
C.O.A. STANDARDS: **DATE**