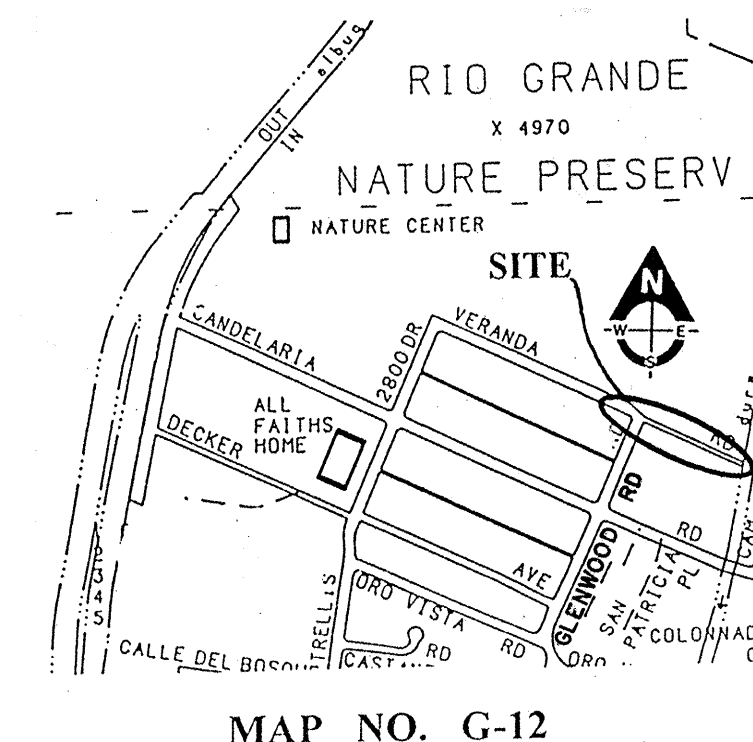


# City of Albuquerque

## Public Works Department

### Transportation Development Division



### VERANDA RD. N.W. EXTENSION

#### - L E G E N D -

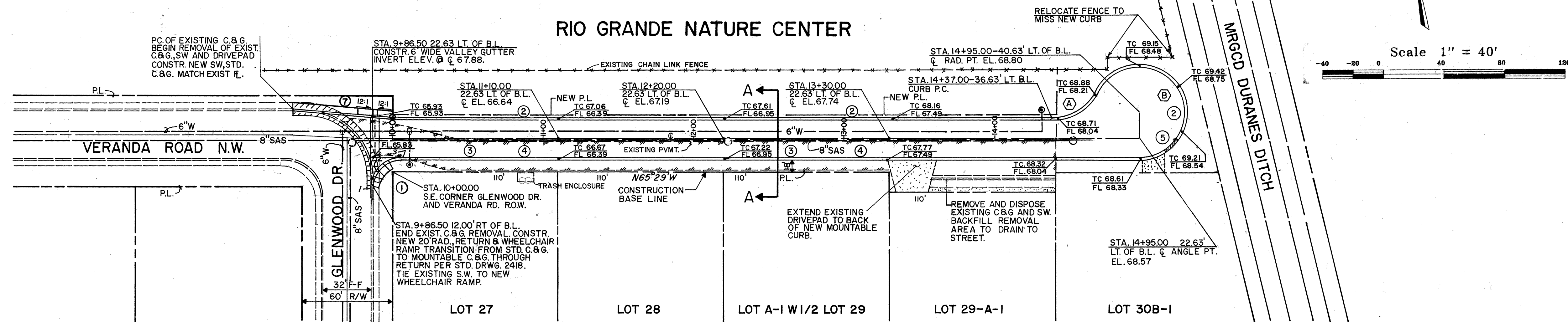
<b>MATERIALS</b>	
CONCRETE	
RIP-RAP	
<b>LINES</b>	
RIGHT-OF-WAY	
PROPERTY LINE (PLAN)	
RIGHT-OF-WAY (SECTION)	
CENTERLINE	
EASEMENT LINE	
MATCH LINE	
SECTION CUT LINE	
<b>EARTHWORK</b>	
EXISTING	NEW
CONTOUR LINE	
SPOT ELEVATION	
PROJECT / PHASE BOUNDARY	
SWALE	
DIRECTION OF FLOW	
<b>MISCELLANEOUS UTILITIES</b>	
GAS LINE	
UNDERGROUND TELEPHONE	
UNDERGROUND ELECTRICAL	
STORM DRAIN	
STORM DRAIN MANHOLE	
STORM DRAIN INLET	
<b>SANITARY SEWER</b>	
SANITARY SEWER LINE	
SANITARY SEWER MANHOLE	
SAS SERVICE CONNECTIONS	
SAS CAP OR PLUG	
ENCASEMENT	
<b>WATER</b>	
WATER LINE WITH CAP	
WATER SERVICE CONNECTIONS	
GATE VALVE	
FIRE HYDRANT	
BUTTERFLY VALVE	
REDUCER	
WATER PRESSURE ZONE BOUNDARY	
<b>WATER FITTINGS</b>	
CAPS AND PLUGS	
ELBOW	
CROSS	
TEE	
<b>MISCELLANEOUS</b>	
EDGE OF ASPHALT	
FIELD FENCE/CHAINLINK FENCE	
COMMON YARD WALL/BLOCK WALL	
RETAINING WALL	
POWER OR TELEPHONE POLE	
TREE	

#### INDEX

SHEET No.			DESCRIPTION
1	of	4	TITLE, LOCATION MAP, INDEX OF DRWG., GEN. NOTES, LEGEND
2	of	4	VERANDA ROAD PLAN AND DETAIL
3	of	4	TRAFFIC CONTROL
4	of	4	TRAFFIC CONTROL

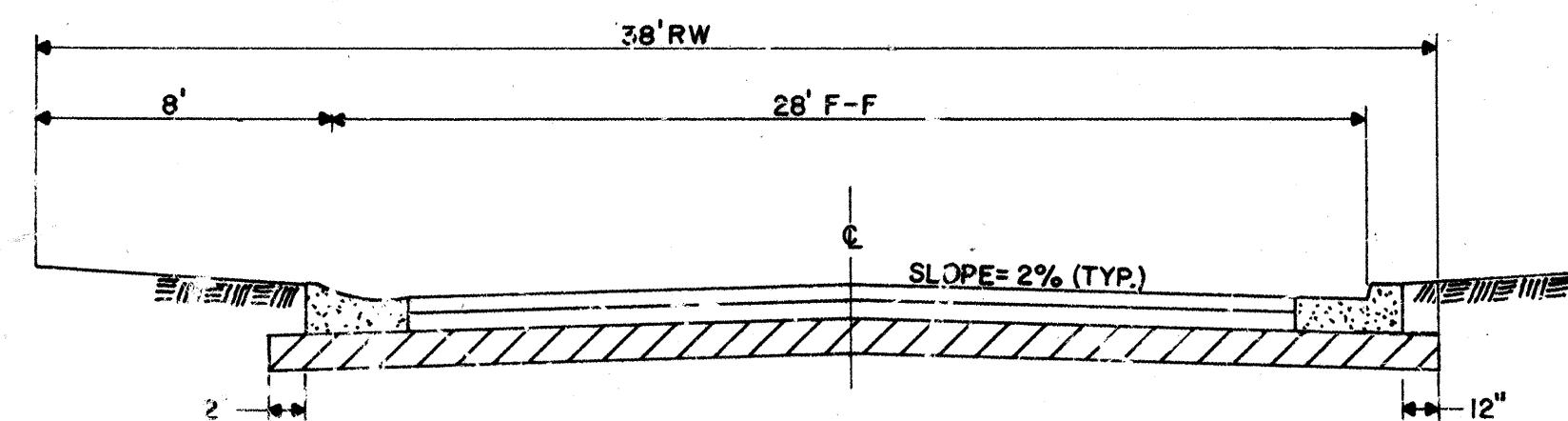
FOR INFORMATION ONLY

REV	SHEETS	CITY ENGINEER	DATE	USER	DEPARTMENT
ENGINEERS STAMP & SIGNATURE					
APPROVALS		ENGINEER	DATE	*****	
DRC Chairman			11/3/98	APPROVED FOR CONSTRUCTION	
WTR/WASTEWTR			10/20/98		
HYDROLOGY			10/20/98		
TOWNSHIP			10/20/98		
Cnstr. Coord.			10/21/98		
City Project No.		City Engineer		Date	
5443.91				11/6/98	
Sheet		of			
1		4			

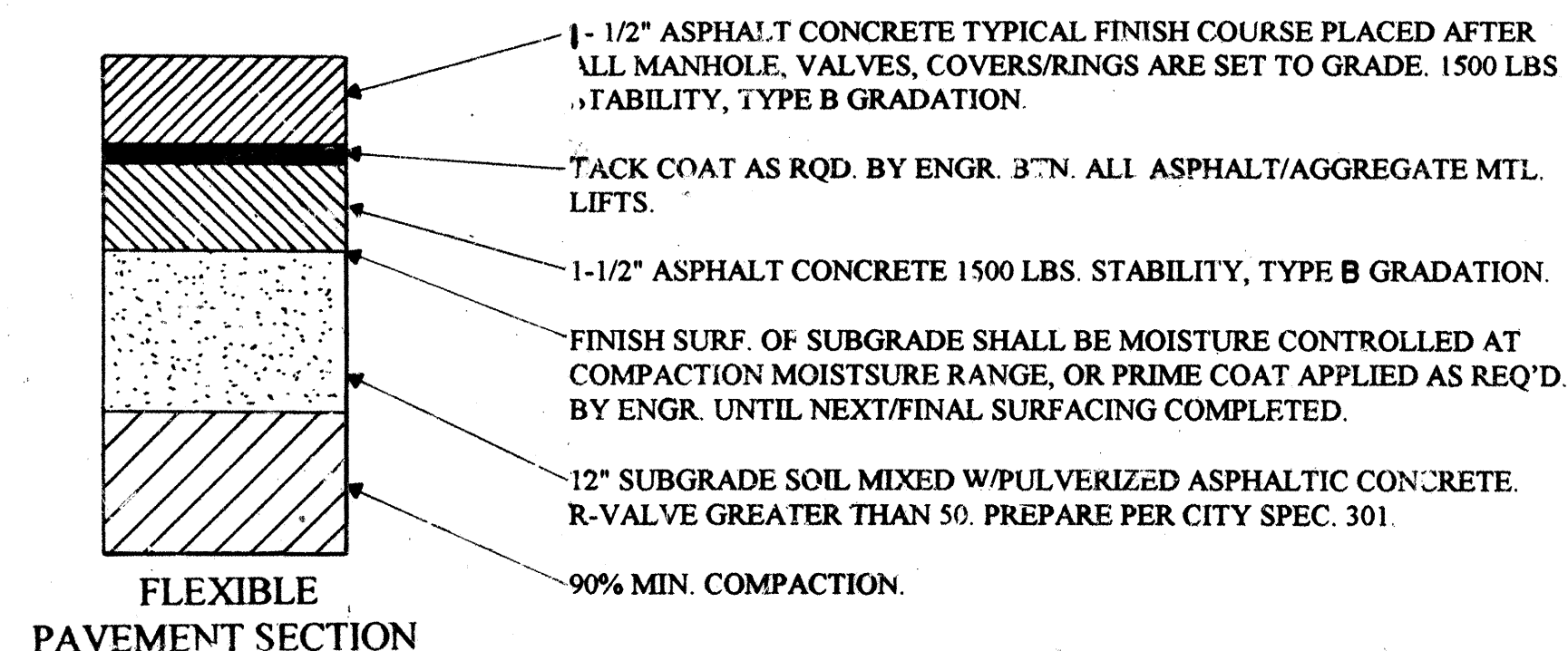


T.C.	F.L.
1 66.48	65.81
2 65.84	65.84
3 66.14	65.87

VERANDA ROAD N.W.



STREET PAVING SECTION A-A



CONSTRUCTION NOTES

- CONSTRUCT 6' WIDE MODIFIED WHEEL CHAIR RAMP PER CITY STANDARD. DRAWING NO. 2418.
- CONSTRUCT STANDARD C & G PER CITY STND. DETAIL.
- CONSTRUCT MOUNTABLE C & G PER CITY STND. DETAIL.
- EXISTING PAVEMENT TO BE REMOVED AND PROCESSED FOR SUBGRADE MATERIAL IN NEW ROAD CONSTRUCTION, SEE SECTION THIS SHEET.
- TRANSITION FROM MOUNTABLE CURB & GUTTER TO 8" STANDARD CURB & GUTTER.
- ADJUST SAS M.H. RIMS & WATER VALVE COVERS TO FINISHED STREET ELEVATION.
- BUILD 70 L.F. OF NEW 4' WIDE SIDEWALK TRANSITIONS AT 12:1 TO NEW 4' WIDE WHEEL CHAIR RAMP CENTERED AT VALLEY GUTTER.
- CONTRACTOR SHALL VERIFY DEPTH OF WATER SERVICE LATERALS PRIOR TO PREPARING SUBGRADE.

CURVE DATA

	$\Delta$	R	L
(A)	64°13'50"	32'	35.82'
(B)	244°13'50"	32'	136.35'

FOR INFORMATION ONLY

ENGINEER'S SEAL				SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
				FIELD NOTES					
				NO.	BY	DATE	B.M. IO-G13-A IS LOCATED AT THE INTERSECTION OF CANDELARIA RD NW AND RIO GRANDE BLVD. NW. THE STATION MARK IS A STANDARD ACS BRASS TABLET STAMPED "IO-G13-A" SET IN TOP OF A CONCRETE POST PROJECTING 0.20 ABOVE GROUND. ELEVATION= 4968.16		
NO.	DATE	REMARKS	BY						
DESIGN									
DESIGNED BY	DATE								
DRAWN BY	DATE								
CHECKED BY	DATE								

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
TRANSPORTATION DEVELOPMENT

TITLE: VERANDA ROAD PLAN AND DETAIL

DESIGN REVIEW COMMITTEE  
NOV - 3 1988  
DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

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

City Project No. 544391 Zone Map No. G-12 Sheet 2 Of 4



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.

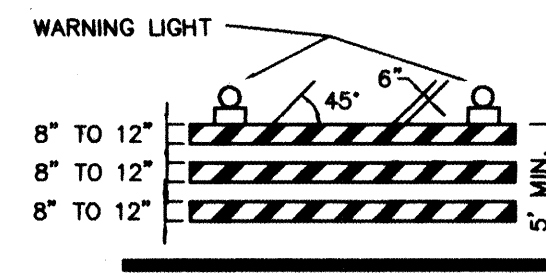
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

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

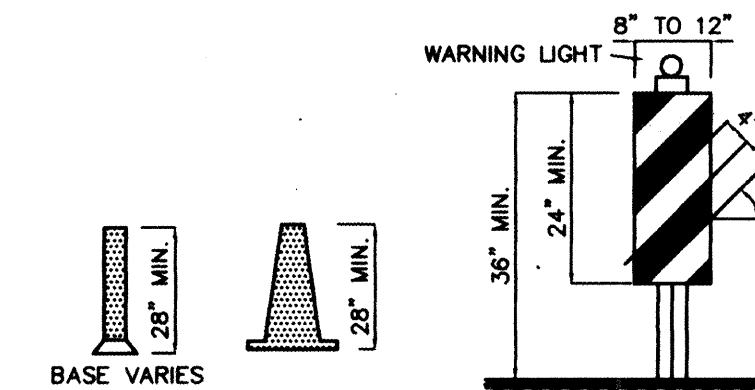
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

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.



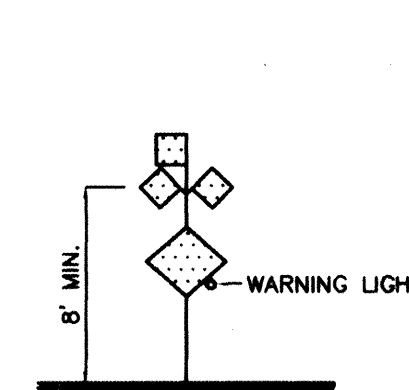
TYPE III BARRICADE



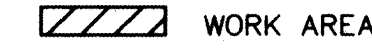
VERTICAL PANEL



CONES



HIGH LEVEL WARNING DEVICE



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

L 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

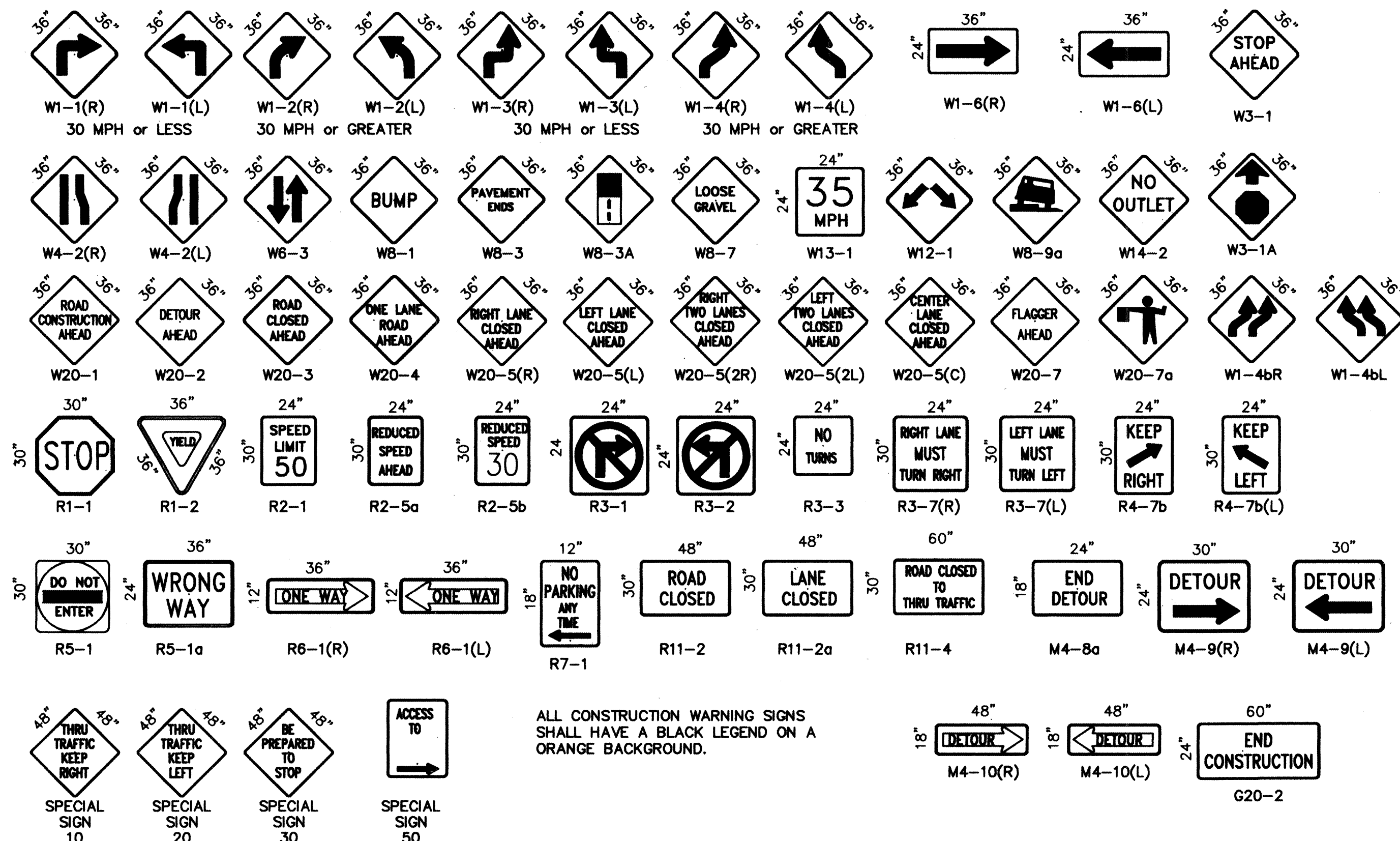
TAPER CRITERIA

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 = WS <sup>2</sup> / 60
40 MPH OR LESS	
45 MPH OR GREATER	L = W x S
L = TAPER LENGTH	
W = WIDTH OF OFFSET IN FEET	
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH	

SIGN FACE DETAILS

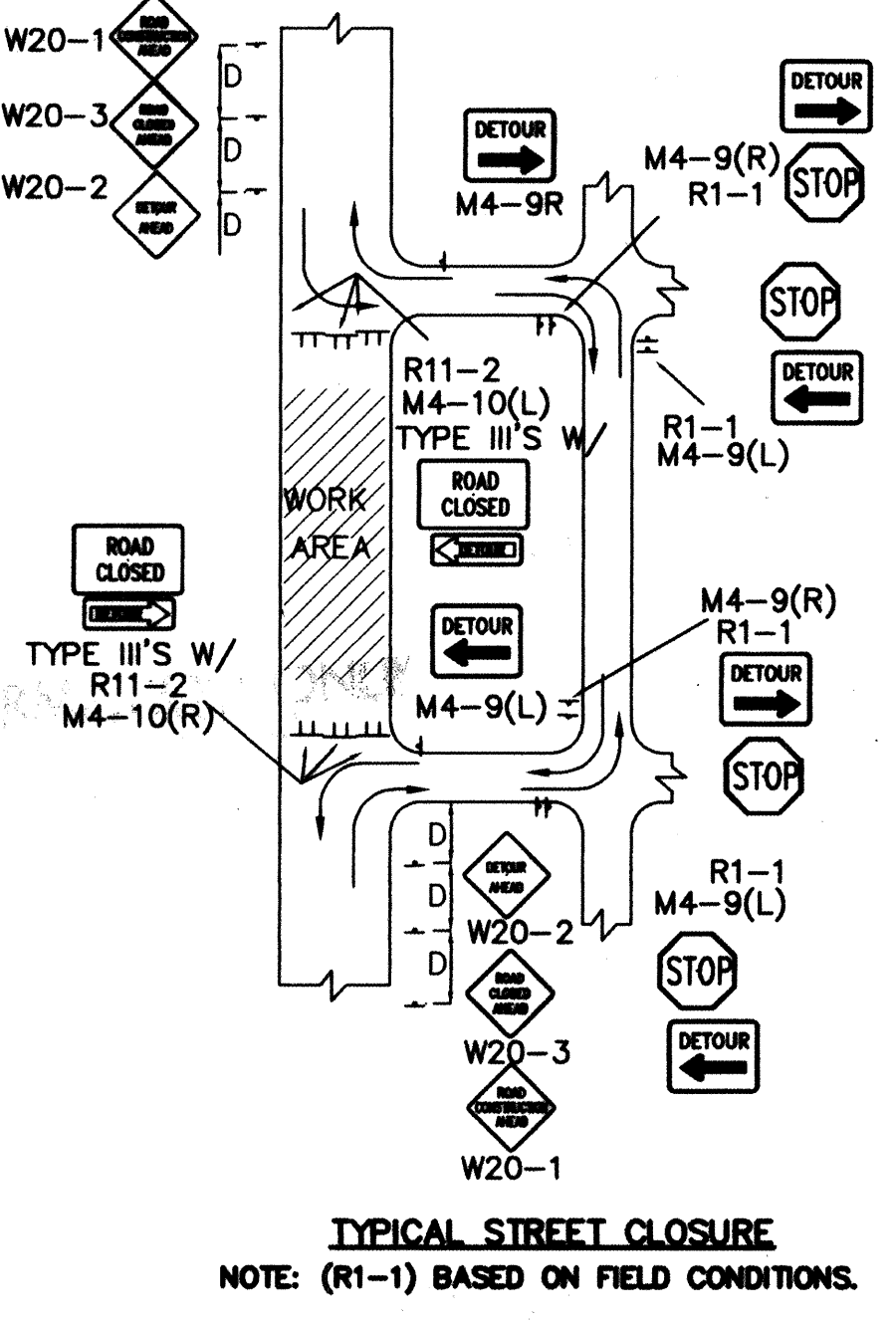
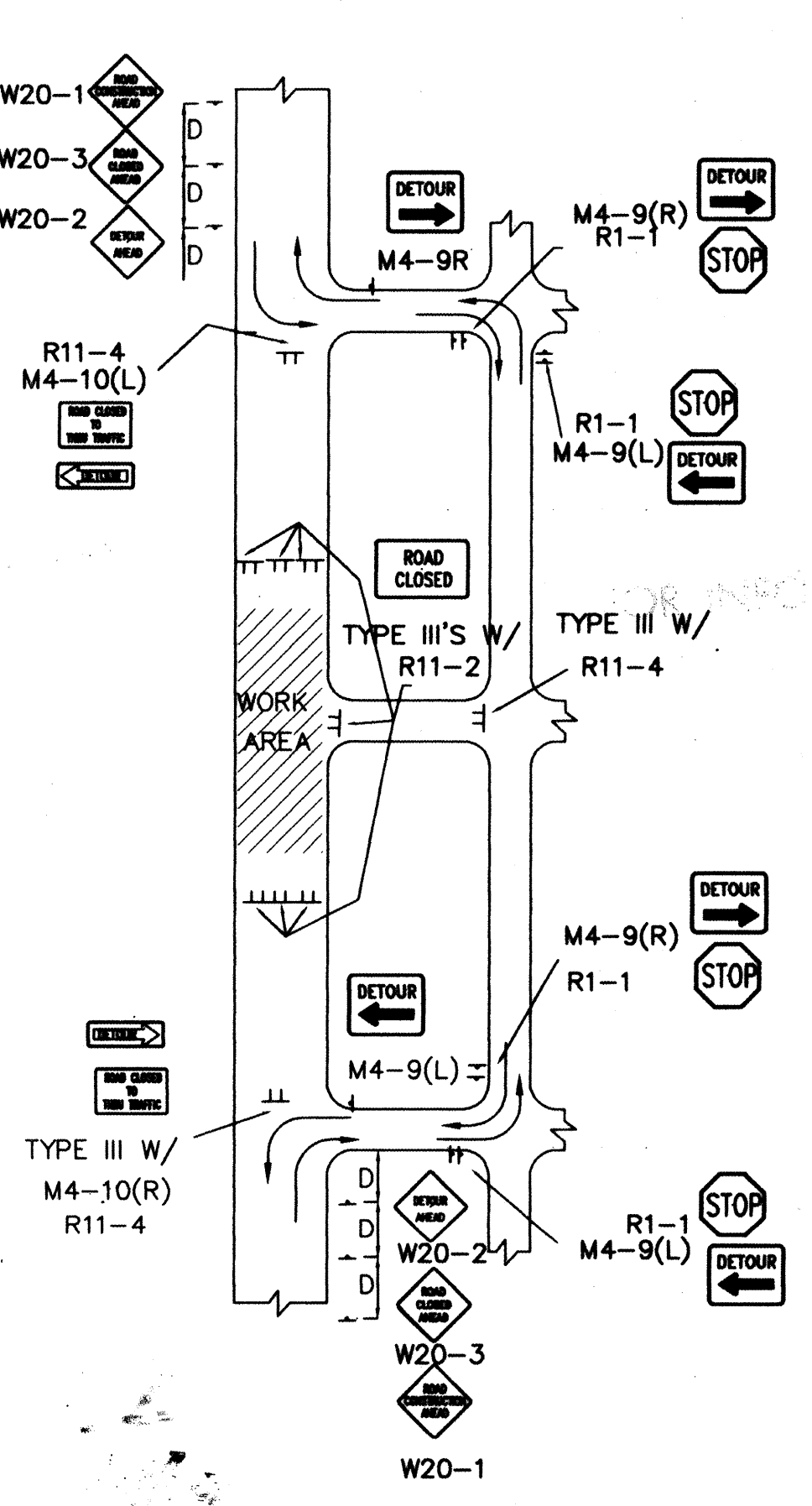
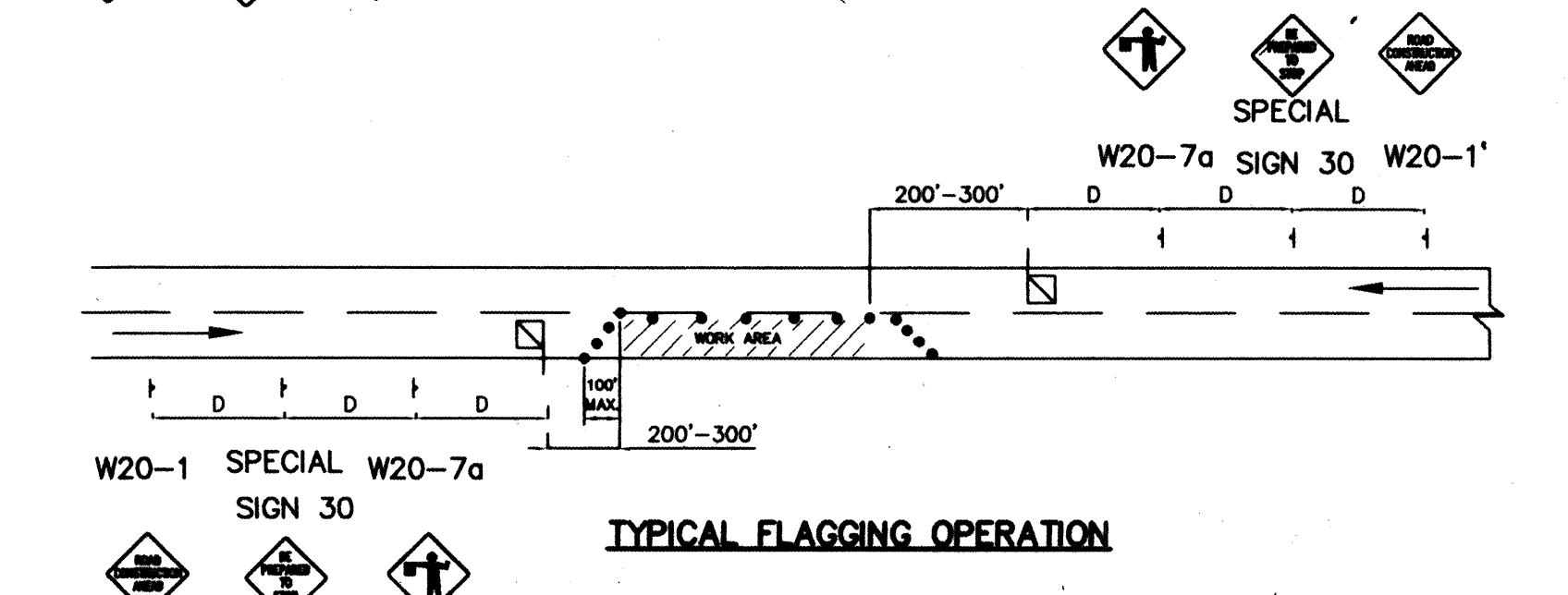
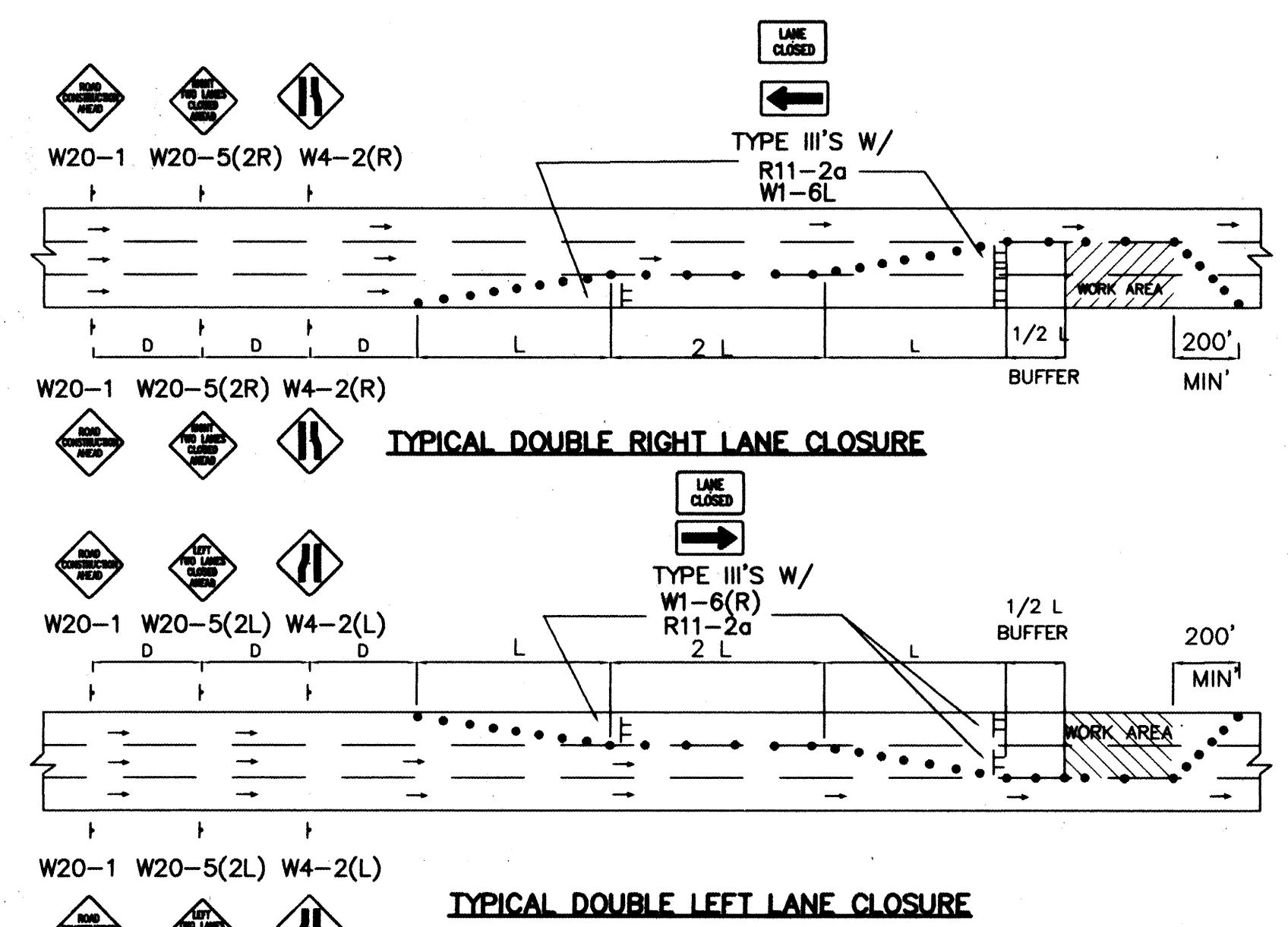
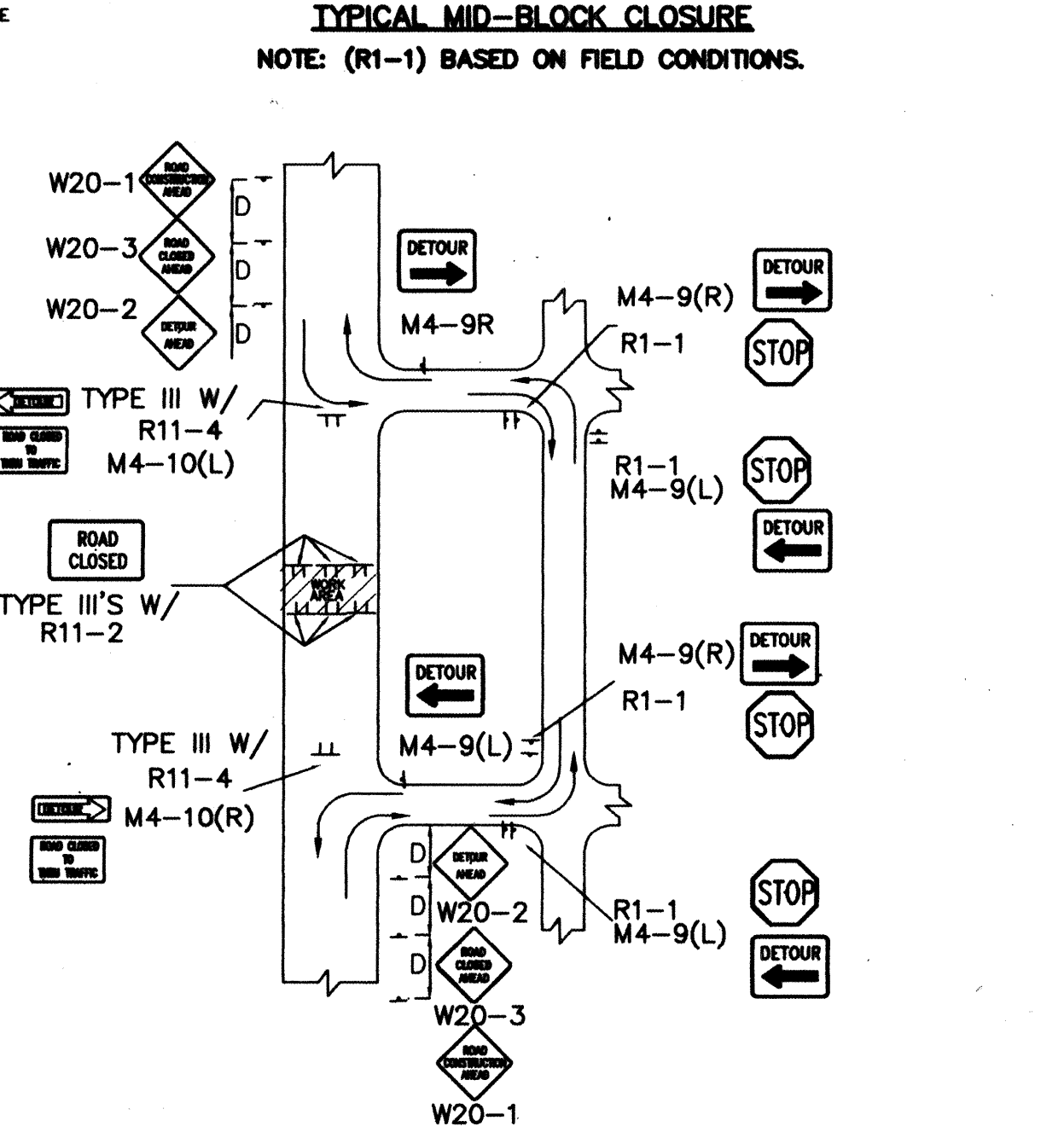
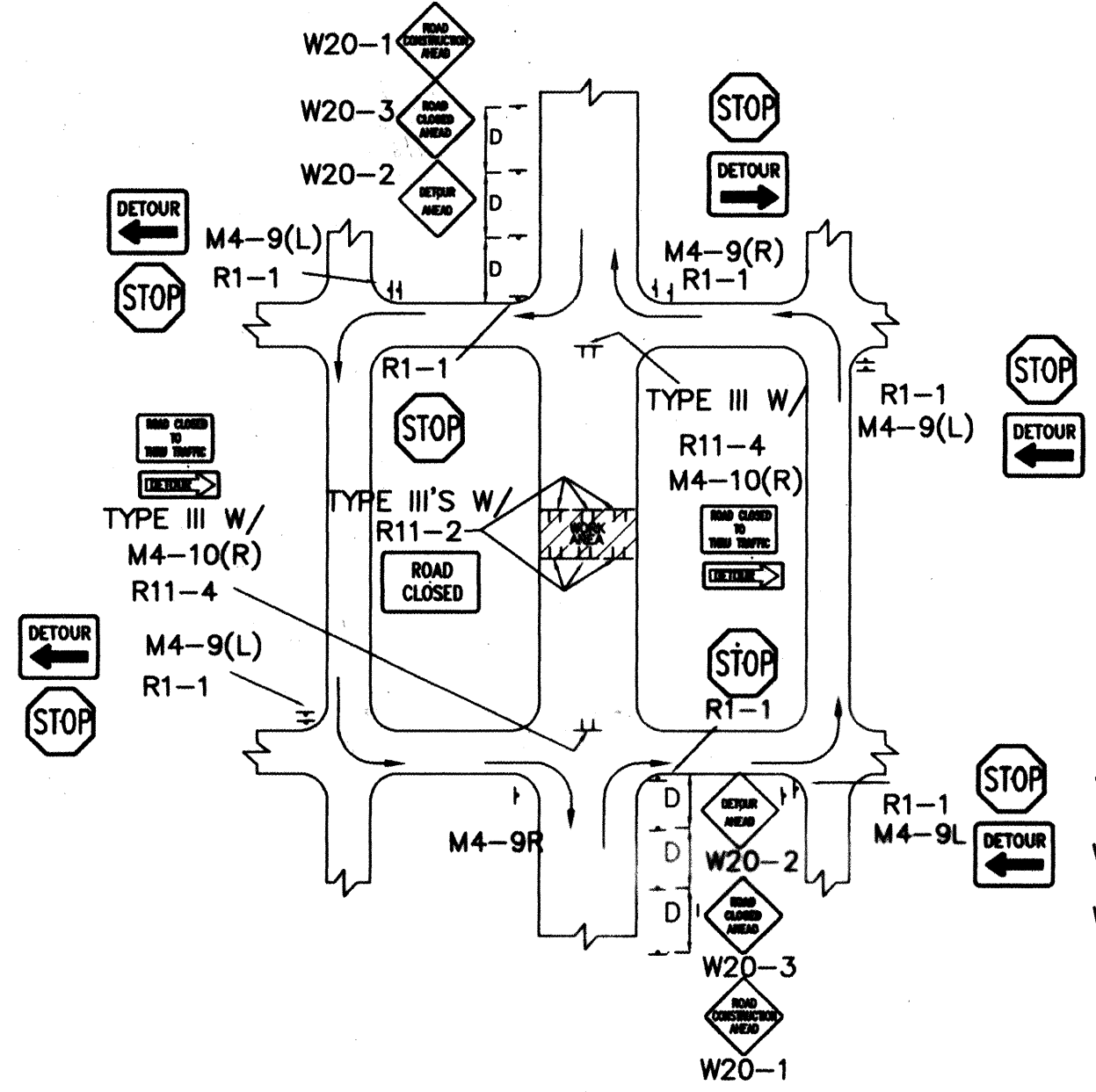
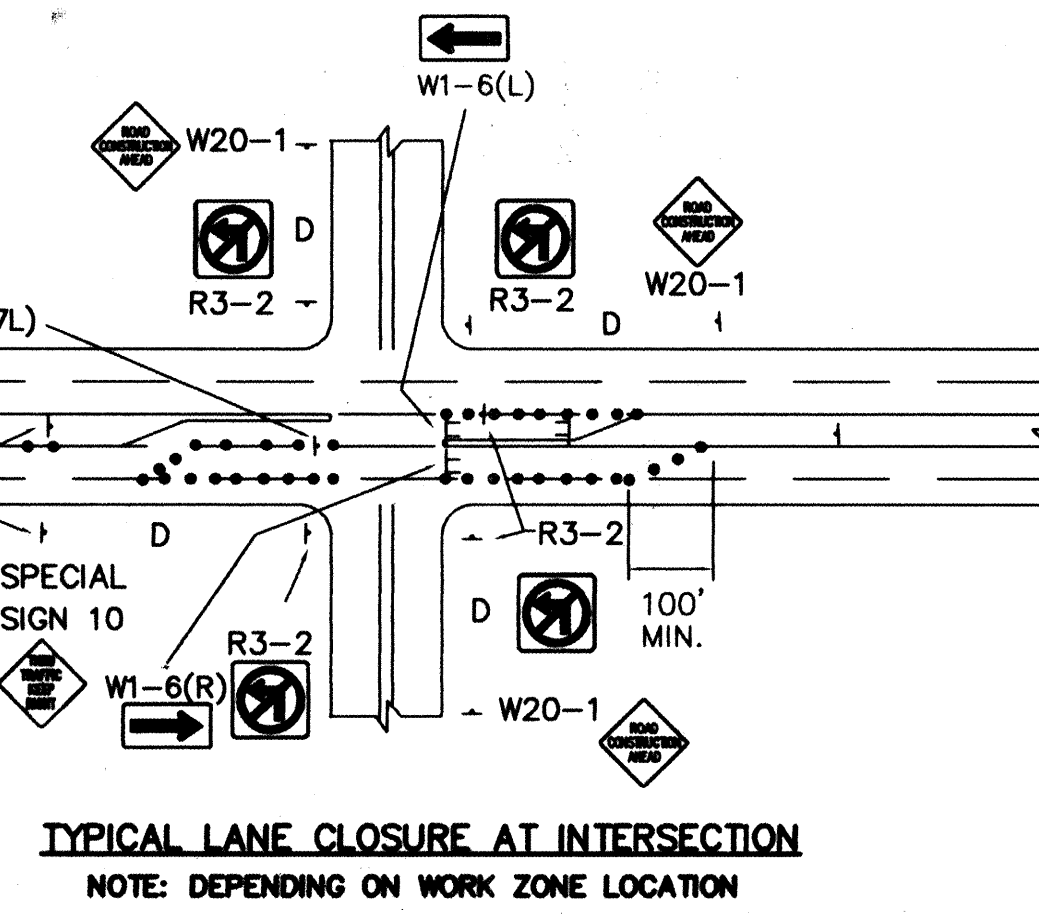
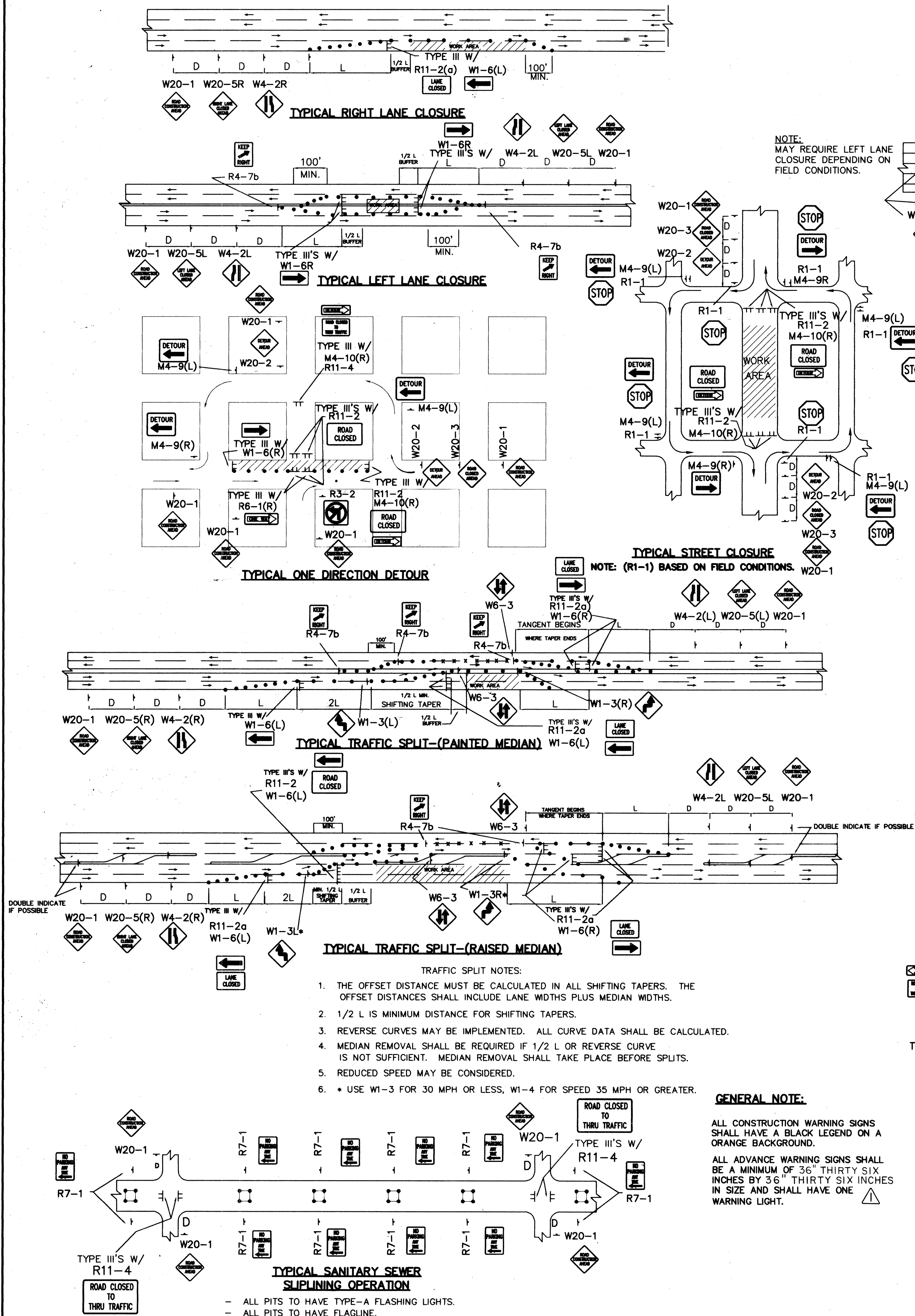


ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

FOR INFORMATION ONLY  
FOR RECORD ONLY

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: <b>SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS</b>	
DESIGN REVIEW COMMITTEE <b>COA Standard</b>	CITY ENGINEER APPROVAL <b>COA Standard</b>
PROJECT NO. 5443.91	MAP NO. G-12
SHEET 3 OF 4	





CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

TITLE: **TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.)**

DESIGN REVIEW COMMITTEE: **COA Standard**

CITY ENGINEER APPROVAL: **COA Standard**

PROJECT NO. 5443.91

MAP NO. G-12

SHEET 4 OF 4

					ENGINEER'S SEAL	SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
						FIELD NOTES					
						NO.	BY	DATE		CONTRACTOR	DATE
										WORK	DATE
										STAMPED BY	DATE
										INSPECTION BY	DATE
										FIELD	DATE
										ADJUSTMENT BY	DATE
										REVISIONS	DATE
										CORRECTED BY	DATE
										MICRO-FILM INFORMATION	
										RECORDED BY	DATE
										NO.	