

CONSTRUCTION PLANS
FOR
SMITH & ARNO
STORM DRAIN
PUBLIC WORKS DEPARTMENT
CITY OF ALBUQUERQUE

GENERAL NOTES

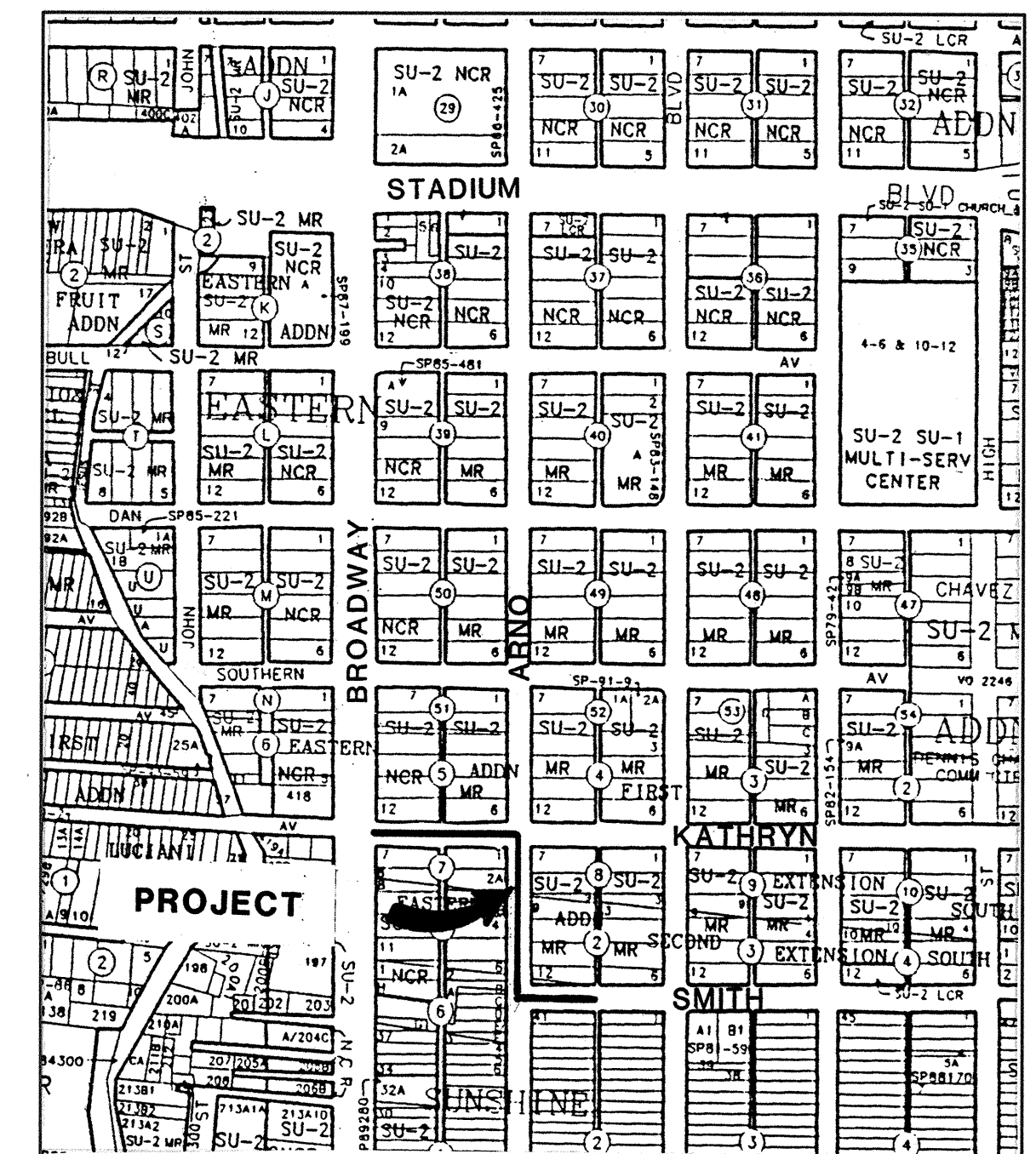
1. All work detailed on these plans to be performed under contract shall, except as otherwise stated or provided for hereon, be constructed in accordance with the City of Albuquerque Standard Specifications for Public Works Construction 1986 Edition as amended with Update No. 5.
2. Prior to construction, the Contractor shall excavate & verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the Contractor shall notify the Engineer so that the conflict can be resolved with minimum delay.
3. Two (2) working days prior to any excavation, Contractor must contact Line Locating Service @ 260-1990 for location of existing utilities.
4. Contractor shall support all existing, underground utility lines which become exposed during construction. Payment for supporting work shall be incidental to storm drain line pay item costs.
5. All street centerlines shown on the plans are the centerlines of existing streets as determined by splitting the distance between existing curbs. Station 1+00 for Arno and Smith is determined in the field by intersecting the street centerline at the street intersection located at the beginning of the street segment under construction. Station 1+00 on Kathryn is opposite the storm drain manhole at the beginning of the project.
6. Contractor shall conduct his operations in a manner which will minimize interference with local traffic. Contractor shall comply with all applicable laws, ordinances, rules, regulations, and orders of any public body having jurisdiction for the safety of persons or property, and to protect them from damage, injury, or loss. Contractor shall erect and maintain, as required by the conditions and progress of the work, all necessary safeguards for safety continuously and not limited to normal working hours, throughout the duration of the project. Contractor shall adhere to Section 19 of the General Conditions of the City of Albuquerque Standard Specifications for Public Works Construction, 1986, as amended with Update No. 5.
7. The Contractor agrees that he shall assume the sole and complete responsibility for the job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify, and hold harmless the Owner & Engineer from any and all liability real or alleged, in connection with the performance of work on this project, excepting liability arising from the sole negligence of the Owner or Engineer.
8. **TRAFFIC CONTROL:** Three (3) working days prior to beginning construction the Contractor shall submit to the 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. See section 19 of the specifications. All street striping altered or destroyed shall be replaced by Contractor to location and in kind as existing and as an incidental cost of street paving.
9. The Contractor shall promptly clean up any material excavated within the public right-of-way so that the excavated material is not susceptible to being washed down the street or into any public drainage facility.
10. Contractor shall assist the Engineer/Inspector in the recording of data on all utility lines and accessories as required by the City of Albuquerque for the preparation of record drawings. Contractor shall not cover utility lines and accessories until all data has been recorded.
11. Existing curb and gutter, sidewalks and driveways not to be removed under the contract which are damaged or displaced by the Contractor, shall be removed and replaced by the Contractor at his expense.
12. All work on this project shall be performed in accordance with applicable federal, state, and local laws, rules, and regulations concerning construction safety and health.
13. All fittings on waterlines shall have restrained joints.
14. The Contractor is responsible for protecting and maintaining all existing monumentation controls. In the event of inadvertent destruction or alteration, the Contractor must immediately notify the City Chief Surveyor.
15. PNM will provide at no cost to the City or the Contractor the required personnel for inspection or observation deemed necessary by PNM while the Contractor is exposing PNM's cables. However, the Contractor shall be charged the total cost associated with repairs to any damaged cables or for any cost associated with supporting or relocating the poles and cables during construction.
16. **WARNING--EXISTING UTILITY LINE LOCATIONS** are shown in an approximate manner only, and such lines may exist where none are shown. The location of any such existing lines is based upon information provided by the utility company, the Owner, or by others, and the information may be incomplete or may be obsolete by the time construction commences.

The Engineer has undertaken no field verification of the location, depth, size, or type of existing underground utility lines, makes no representation pertaining thereto, and assumes no responsibility or liability therefor. The Contractor shall inform itself of the location of any utility line in or near the area of the work in advance of and during excavation work. The Contractor is fully responsible for any and all damage caused by its failure to locate, identify, and preserve any and all existing utilities. The Contractor shall comply with State statutes, municipal and local ordinances, rules and regulations pertaining to the location of these lines and facilities, in planning and conducting excavation, whether by calling or notifying the utilities, complying with "Blue Stakes" procedures, or otherwise.
17. All street striping altered or destroyed shall be replaced by the Contractor to existing patterns. Any such striping shall be considered incidental to pavement construction and no separate payment shall be made therefor.
18. Graded access for residents across the construction zone shall be maintained during construction. On residential streets, one lane of traffic must be maintained at all times.

INDEX TO DRAWINGS

SHEET	TITLE
1	VICINITY MAP & GENERAL NOTES
2	KATHRYN AVENUE
3	ARNO STREET
4	SMITH AVENUE
5	DETAILS
6 & 7	TRAFFIC CONTROL PLANS

19. The Contractor shall be responsible for notifying utilities for any adjustment or relocation of existing utilities required by construction. The Contractor may be required to reschedule his activities to allow utility crews to perform their work. No additional costs will be allowed for delays or inconvenience caused by utility company crews.
20. Removal of existing gas lines and installation of temporary gas service on Kathryn and Arno is required in advance of construction. The Contractor shall remove all pavement necessary for removal of existing gas lines. Contractor shall also schedule his work to allow the Gas Company to reinstall permanent gas lines and services after completion of storm drain construction but prior to repaving.
21. The Contractor shall confine his work within the street right-of-way. Overnight parking of the Contractor's equipment shall not obstruct access roads or traffic lanes.
22. The removal and replacement of all signs, posts, fences, mail boxes and road markings shall be considered incidental to storm drain line construction.
23. All pipe bedding shall conform to Class C bedding as defined in Section 701 of the specifications.
24. There shall be a minimum clearance between utility lines of 0.5 feet. Where this is not possible, two layers of 1/2" expansion joint material shall be placed between utility lines. The cost of providing and placing expansion joint material shall be considered incidental to storm drain line construction and no separate payment shall be made therefor.
25. All storm drain line pipe shall be reinforced concrete pipe, Class III.
26. All work on Broadway Boulevard shall be completed within 10 working days of 12 hours each Monday through Saturday (7:00 am to 7:00 pm).
27. Existing pavement scheduled for removal varies between 8 and 10-inches. Pavement thicknesses measured at potholes are given in the Pothole Information tables shown on the plan and profile sheets.
28. Curb returns removed shall be replaced with curb returns with Handicap Ramps.
29. Full street closure on Kathryn, Arno and Smith shall be limited to a maximum of 150 LF at a time.


$$1'' = 750' \pm$$

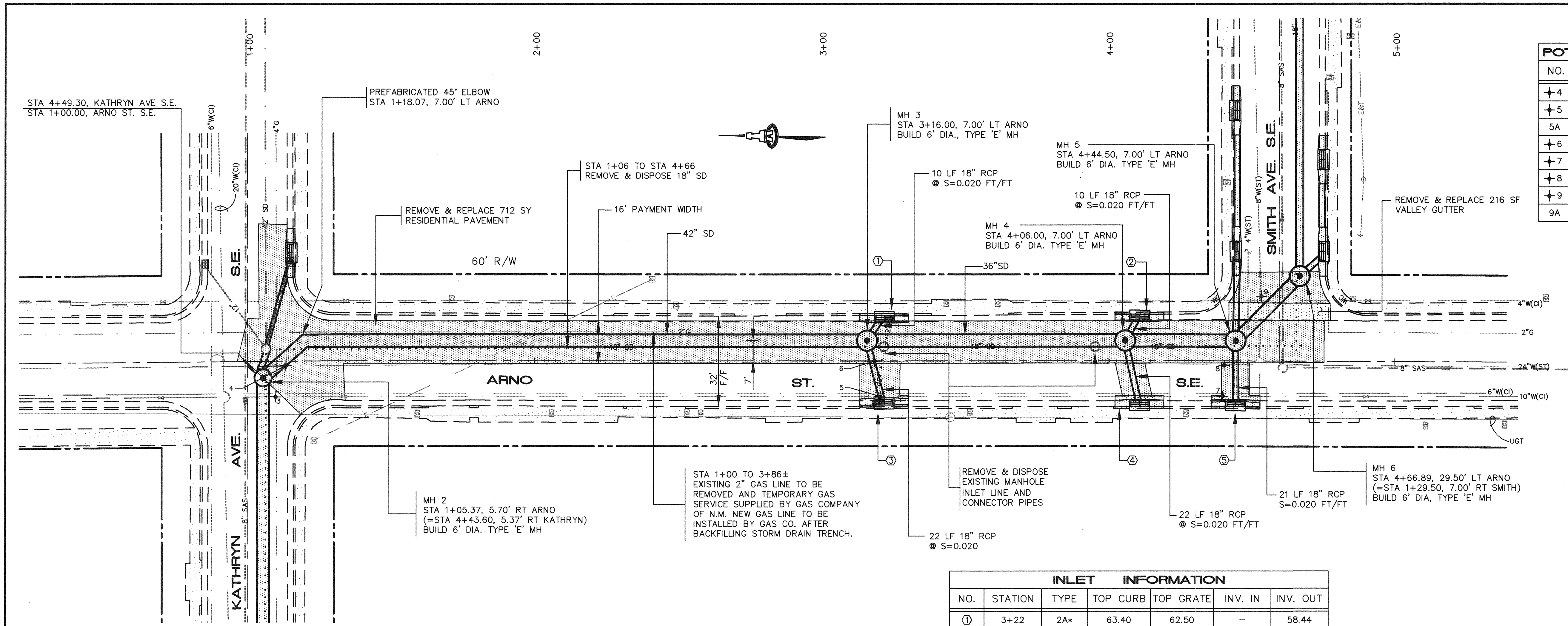
VICINITY MAP

L-14

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REV.	SHEETS	CITY	ENGINEER	DATE	USER	DEPARTMENT	DATE	USER	DEPARTMENT	DATE	
								APPROVED FOR CONSTRUCTION <i>Ramirez R/qf / 5/25/95</i>			
ISAACSON & ARFMAN, P.A. Consulting Engineering Associates 128 Monroe Street N.E. Albuquerque New Mexico											
81305CVR.DWG canw 5/5/95											
PROJECT NO. 4835.91							SHEET OF 1 7				

5/5/95

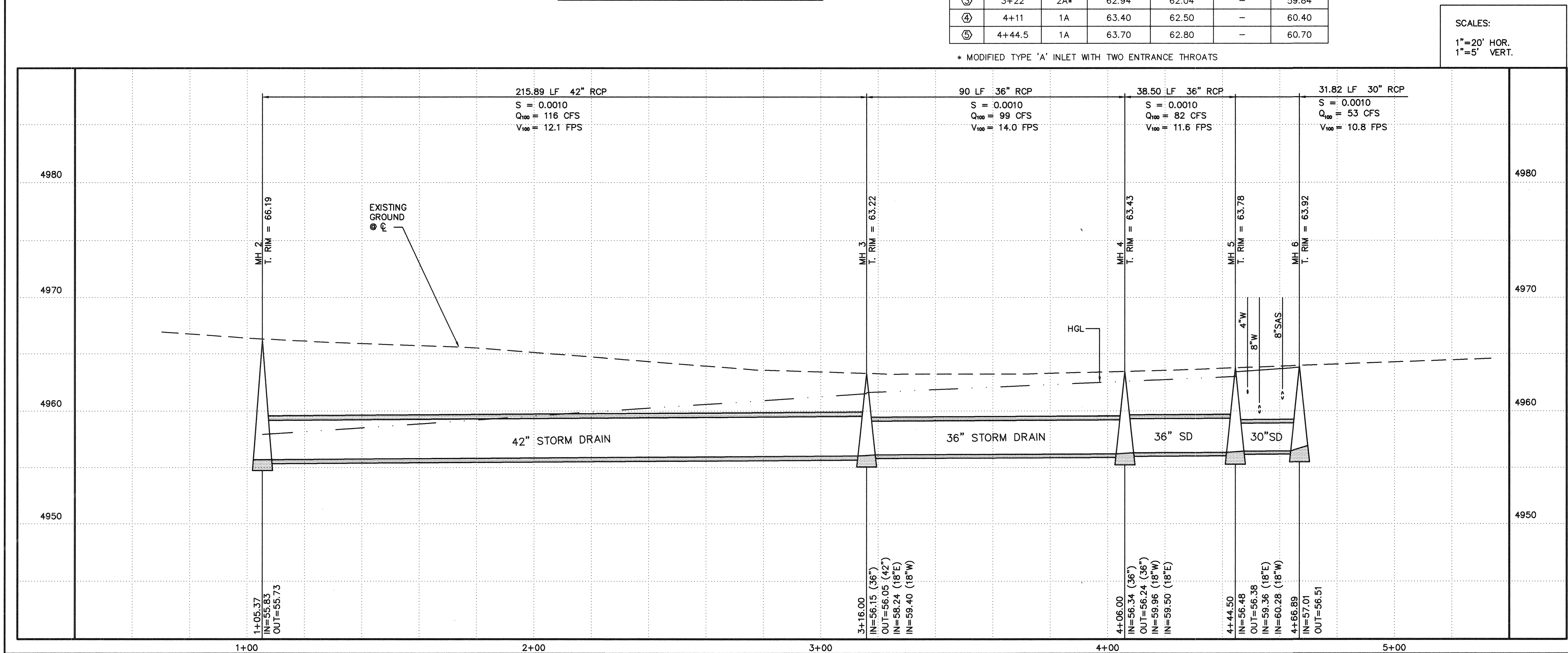


POTHOLE INFORMATION			
NO.	UTILITY	DEPTH TO TOP	PAVEMENT THICKNESS
4	24"W	27"	8"
5	10"W	40"	10"
5A	6"W	42"	-
6	24"W	52"	10"
7	10"W	44"	10"
8	24"W	44"	10"
9	8"W	38"	10"
9A	4"W	21"	-

INLET INFORMATION						
NO.	STATION	TYPE	TOP CURB	TOP GRATE	INV. IN	INV. OUT
1	3+22	2A*	63.40	62.50	-	58.44
2	4+11	1A	63.68	62.78	-	59.68
3	3+22	2A*	62.94	62.04	-	59.84
4	4+11	1A	63.40	62.50	-	60.40
5	4+44.5	1A	63.70	62.80	-	60.70

* MODIFIED TYPE 'A' INLET WITH TWO ENTRANCE THROATS

SCALES:
1"=20' HOR.
1"=5' VERT.

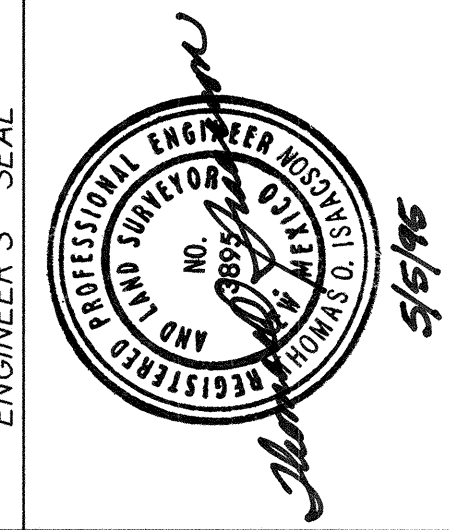


- LEGEND**
- CURB AND GUTTER
 - CONCRETE/SIDEWALK
 - SANITARY SEWER MANHOLE
 - CLEANOUT
 - WATER VALVE
 - FIRE HYDRANT
 - WATER METER
 - OVERHEAD ELECTRIC LINE
 - POLE
 - ANCHOR
 - LIGHT POLE
 - TELEPHONE MANHOLE
 - DROP INLET (EXISTING)
 - WC WHEELCHAIR RAMP
 - 5 POTHOLE W/ NUMBER

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128 Monroe Street N.E.
Albuquerque New Mexico

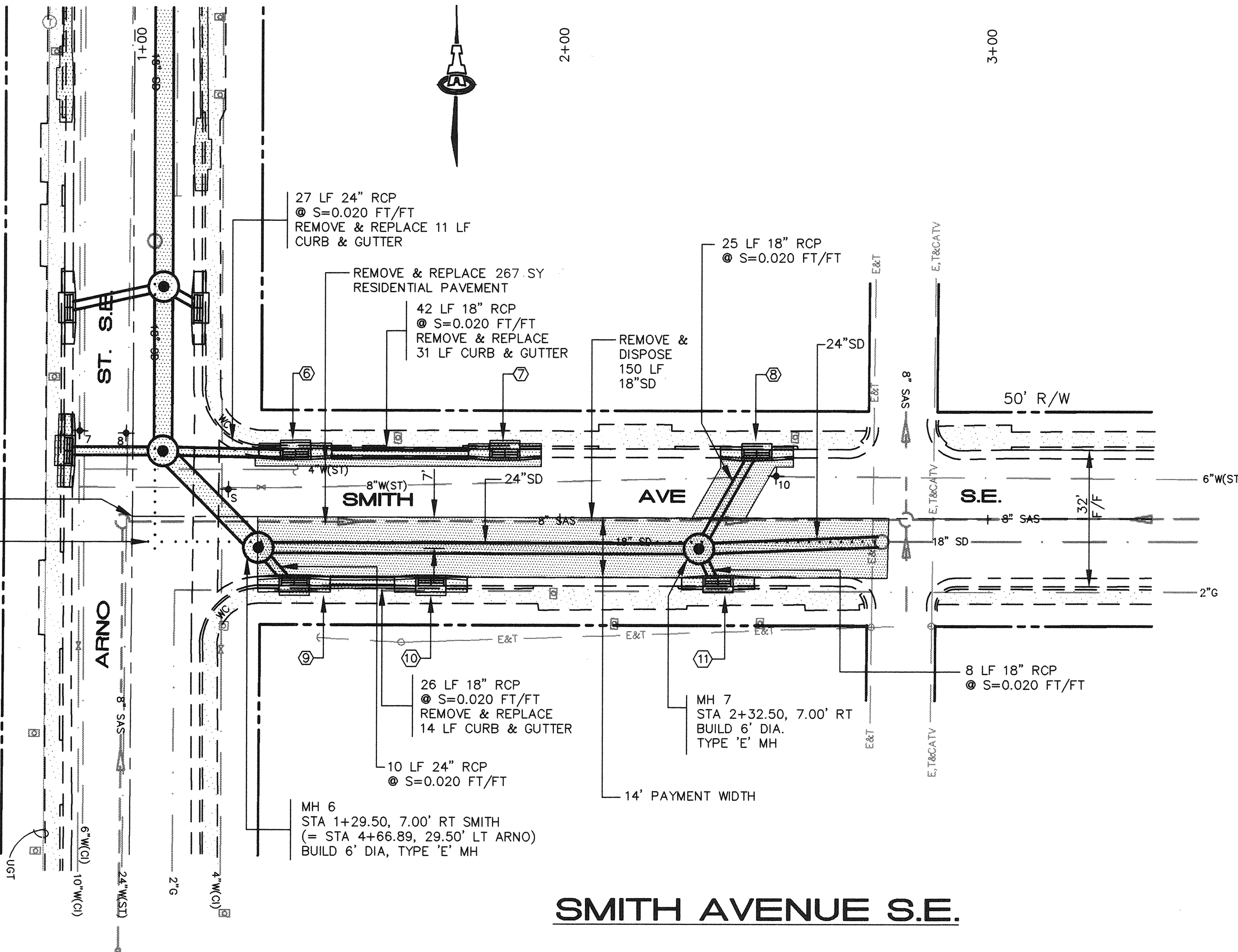
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: SMITH & ARNO STORM DRAIN ARNO STREET					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	5-23-95	WATER	N/A RWE	5-22-95
TRANSPORTATION	<i>[Signature]</i>	5-17-95	WASTE WATER	N/A RWE	5-22-95
HYDROLOGY	<i>[Signature]</i>	5-19-95			
PROJECT NO.	4835.91		MAP NO.	L-14	
SHEET 3			OF 7		

AS-BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	DATE	BY	ACS 14-1114	DATE	BY	FIELD NOTES	DATE	BY	NO.	DATE	BY
INSPECTOR'S	DATE	BY	ALUMINUM CAP IN TOP OF EAST CURB AT	DATE	BY	ALDRICH SURVEYING	03/95	DATE	BY	DATE	BY
FIELD	DATE	BY	BROADWAY S.E., APPROXIMATELY 500' SOUTH AT	DATE	BY			REMARKS	NO.	DATE	BY
VERIFICATION	DATE	BY	KATHRYN AVE.	DATE	BY			REVISIONS	NO.	DATE	BY
CORRECTED	DATE	BY	ELEVATION = 4958.51	DATE	BY			DESIGN	NO.	DATE	BY
MICRO-FILM	DATE	BY		DATE	BY			DESIGNED BY TOI	NO.	DATE	BY
RECORDED	DATE	BY		DATE	BY			DRAWN BY WDE	NO.	DATE	BY
NO.	DATE	BY		DATE	BY			CHECKED BY TOI	NO.	DATE	BY



STA 1+00.00, SMITH AVE. S.E.
STA 4+59.89, ARNO ST. S.E.

REMOVE & DISPOSE
EXISTING MH



SMITH AVENUE S.E.

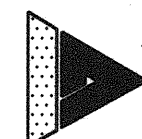
POTHOLE INFORMATION			
NO.	UTILITY	DEPTH TO TOP	PAVEMENT THICKNESS
10	6"W	35"	10"

INLET INFORMATION						
NO.	STATION	TYPE	TOP CURB	TOP GRATE	INV. IN	INV. OUT
6	1+38	1A	64.21	63.31	60.10	59.90
7	1+86.4	1A	64.83	63.93	-	60.93
8	2+46	1A	65.74	64.84	-	59.50
9	1+38	1A	64.68	63.78	60.45	60.25
10	1+70.4	1A	64.97	64.07	-	60.97
11	2+37	1A	65.82	64.92	-	61.82

SCALES:
1"=20' HOR.
1"=5' VERT.

LEGEND

- CURB AND GUTTER
- CONCRETE/SIDEWALK
- SANITARY SEWER MANHOLE
- CLEANOUT
- WATER VALVE
- FIRE HYDRANT
- WATER METER
- OVERHEAD ELECTRIC LINE
- POLE
- ANCHOR
- LIGHT POLE
- TELEPHONE MANHOLE
- DROP INLET
- POTHOLE W/ NUMBER



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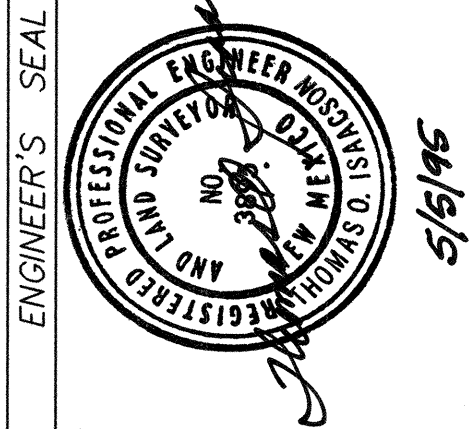
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

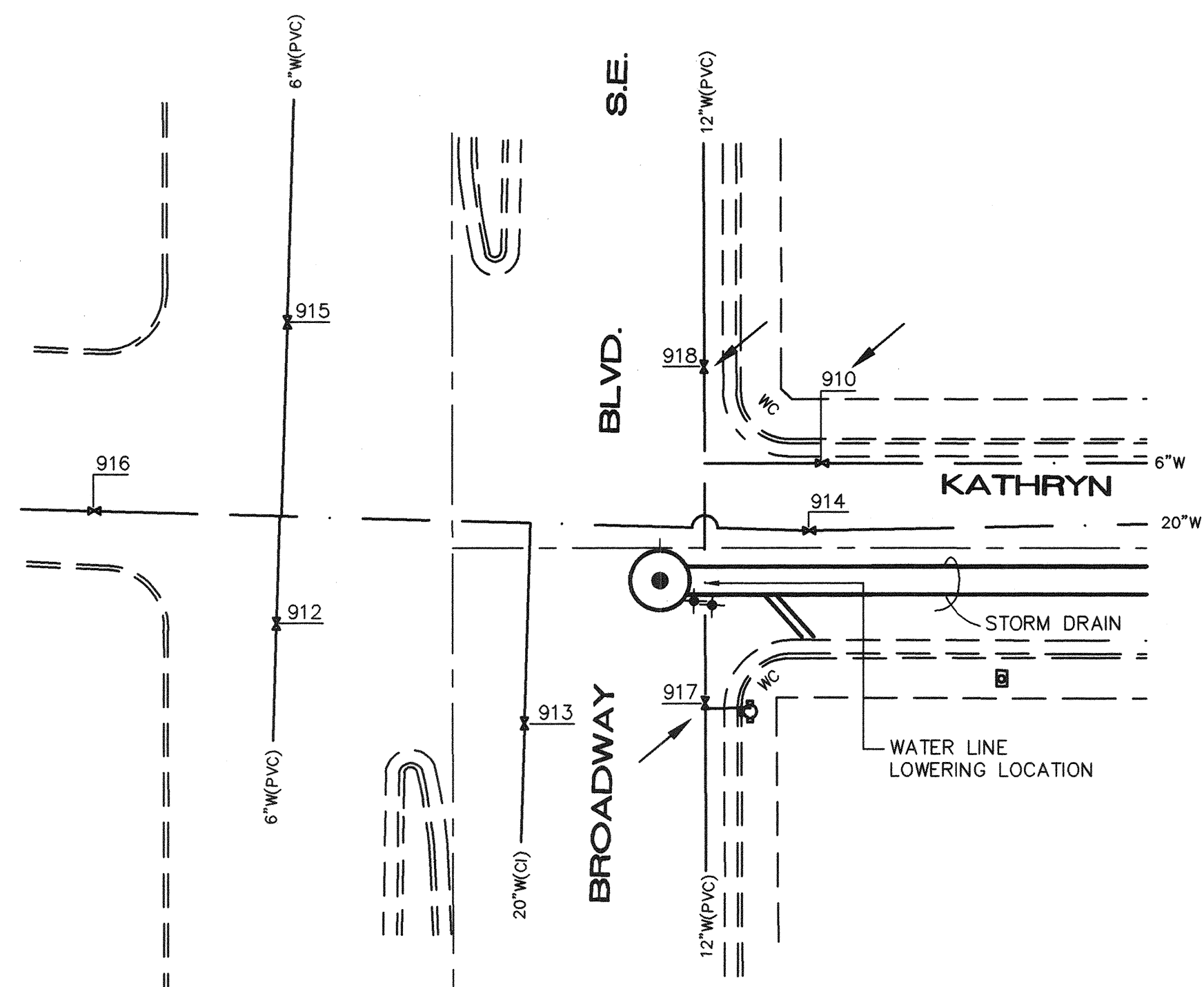
TITLE: SMITH & ARNO STORM DRAIN
SMITH AVENUE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	<i>[Signature]</i>	5-23-95	WATER	N/A RWK	5-22-95
TRANSPORTATION	<i>[Signature]</i>	5-13-95	WASTE WATER	N/A RWK	5-22-95
HYDROLOGY	<i>[Signature]</i>	5-13-95			

PROJECT NO. 4835.91 MAP NO. L-14 SHEET 4 OF 7



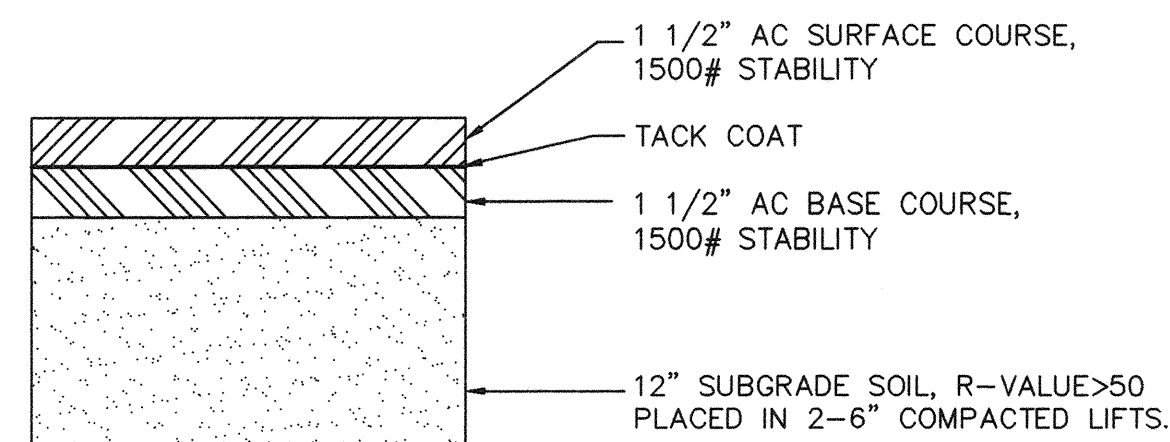
NO.	DATE	REMARKS	BY
		DESIGN	
		REVISIONS	
		DESIGNED BY TOI	DATE 04/95
		DRAWN BY WDE	DATE 04/95
		CHECKED BY TOI	DATE 04/95



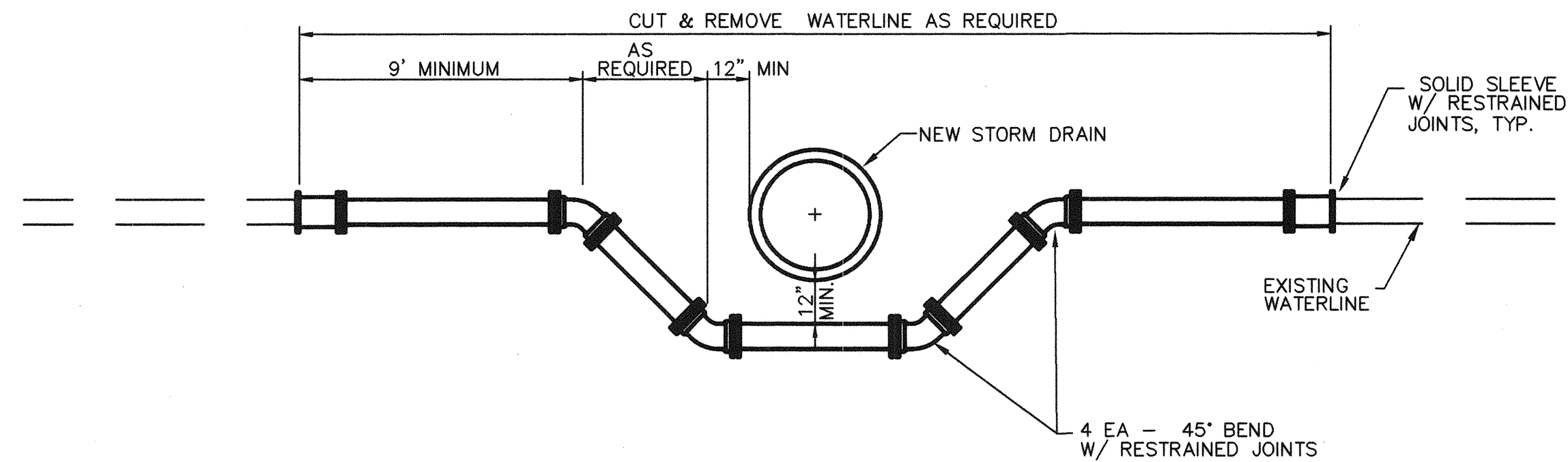
WATER SHUT-OFF PLAN
SCALE: 1"=20'

WATER SHUT-OFF NOTES:

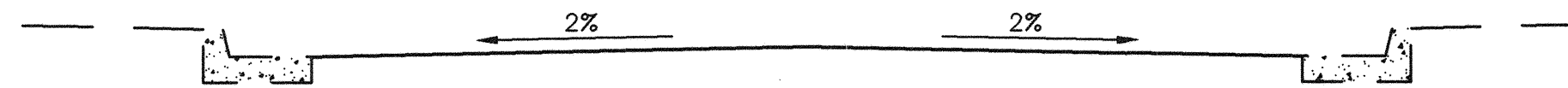
- CONTRACTOR SHALL BE RESPONSIBLE FOR TIMING AND COORDINATION OF THE WATER SHUT-OFF REQUIREMENTS IN CONJUNCTION WITH COMPLETION OF THIS PROJECT.
- AT LEAST FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CONTACT PWD/WATER SYSTEMS DIVISION (857-8200) TO INITIATE IMPLEMENTATION OF THIS WATER SHUT-OFF PLAN.
- TO COMPLETE THE NON-PRESSURE CONNECTION SHOWN, THE EXISTING VALVES LISTED ABOVE AND MARKED WITH AN ARROW (→) ON THE MAP MUST BE CLOSED BY PWD/ WATER SYSTEMS PERSONNEL.



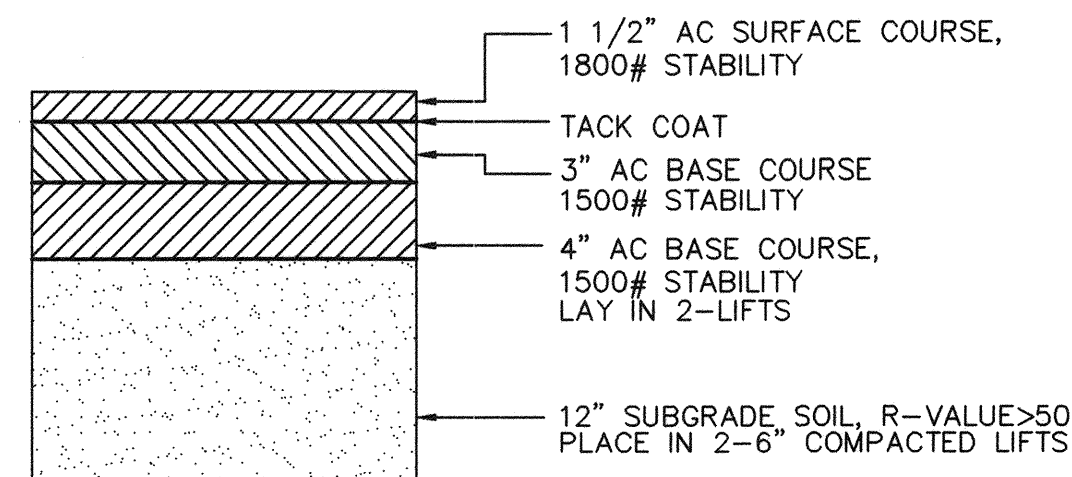
RESIDENTIAL STREET SECTION
NO SCALE



TYPICAL WATERLINE LOWERING
NO SCALE



REQUIRED CROWN FOR PAVEMENT REPLACEMENT
NO SCALE



ARTERIAL STREET SECTION
NO SCALE

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128 Monroe Street N.E.
Albuquerque New Mexico

81350TLDWGwde 05/05/95

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **SMITH & ARNO STORM DRAIN DETAILS**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	5-22-95	WATER	N/A	RWK 5-22-95
TRANSPORTATION	<i>[Signature]</i>	5-22-95	WASTE WATER	N/A	RWK 5-22-95
HYDROLOGY	<i>[Signature]</i>	5-22-95			

PROJECT NO. **4835.91** MAP NO. **L-14** SHEET **5** OF **7**

ENGINEER'S SEAL		REVISIONS		DESIGNED BY TOI	DATE 04/95
		NO. DATE 1 05/05/95 2 05/05/95 3 05/05/95 4 05/05/95 5 05/05/95 6 05/05/95 7 05/05/95 8 05/05/95 9 05/05/95 10 05/05/95 11 05/05/95 12 05/05/95 13 05/05/95 14 05/05/95 15 05/05/95 16 05/05/95 17 05/05/95 18 05/05/95 19 05/05/95 20 05/05/95 21 05/05/95 22 05/05/95 23 05/05/95 24 05/05/95 25 05/05/95 26 05/05/95 27 05/05/95 28 05/05/95 29 05/05/95 30 05/05/95 31 05/05/95 32 05/05/95 33 05/05/95 34 05/05/95 35 05/05/95 36 05/05/95 37 05/05/95 38 05/05/95 39 05/05/95 40 05/05/95 41 05/05/95 42 05/05/95 43 05/05/95 44 05/05/95 45 05/05/95 46 05/05/95 47 05/05/95 48 05/05/95 49 05/05/95 50 05/05/95 51 05/05/95 52 05/05/95 53 05/05/95 54 05/05/95 55 05/05/95 56 05/05/95 57 05/05/95 58 05/05/95 59 05/05/95 60 05/05/95 61 05/05/95 62 05/05/95 63 05/05/95 64 05/05/95 65 05/05/95 66 05/05/95 67 05/05/95 68 05/05/95 69 05/05/95 70 05/05/95 71 05/05/95 72 05/05/95 73 05/05/95 74 05/05/95 75 05/05/95 76 05/05/95 77 05/05/95 78 05/05/95 79 05/05/95 80 05/05/95 81 05/05/95 82 05/05/95 83 05/05/95 84 05/05/95 85 05/05/95 86 05/05/95 87 05/05/95 88 05/05/95 89 05/05/95 90 05/05/95 91 05/05/95 92 05/05/95 93 05/05/95 94 05/05/95 95 05/05/95 96 05/05/95 97 05/05/95 98 05/05/95 99 05/05/95 100 05/05/95		DRAWN BY WDE	DATE 04/95
CHECKED BY TOI		DATE 04/95		DATE 04/95	

SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
NO.	FIELD NOTES	NO.	DATE	CONTRACTOR	DATE
1	ALDRICH SURVEYING	ACS 14-L114	03/95	BY	DATE
2		ALUMINUM CAP IN TOP OF EAST CURB AT BROADWAY S.E., APPROXIMATELY 500' SOUTH AT KATHRYN AVE.		INSPECTOR'S FIELD VERIFICATION BY	DATE
3		ELEVATION = 4958.51		DATE	DATE
4				MICRO-FILM INFORMATION	
5				RECORDED BY	DATE
6				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 ACCESSSES. 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 ACCESSSES. 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. CONTRACTOR SHALL NOT BEGIN WORK BEFORE 8:30 A.M. OR END WORK AFTER 4:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

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. 24 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.

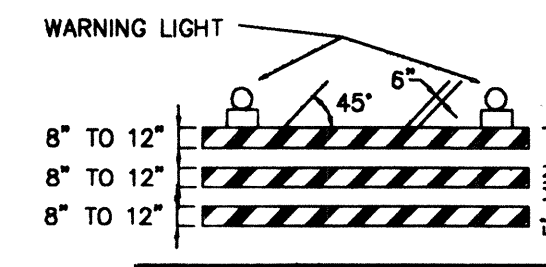
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

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

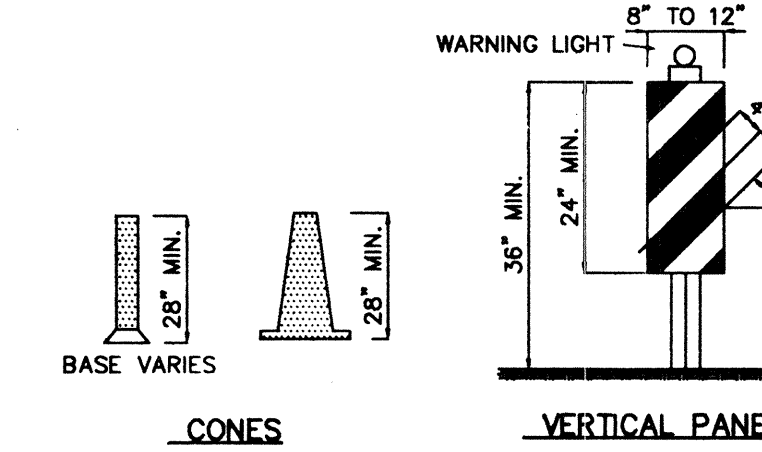
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

PROJECT CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. 36"x36" Advance warning signs may be used if they have SuperEngineering Grade sheeting or better reflective.



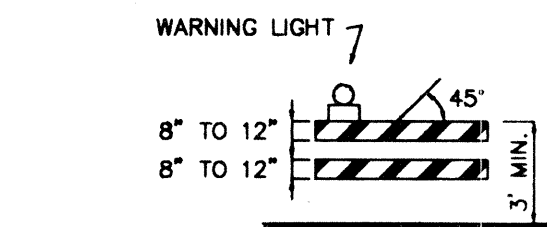
TYPE III BARRICADE



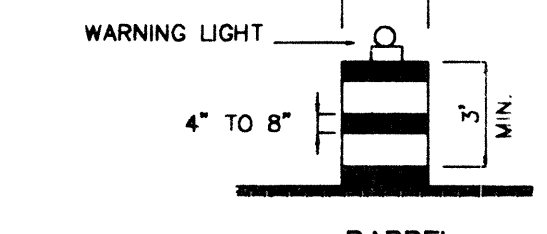
CONES

VERTICAL PANEL

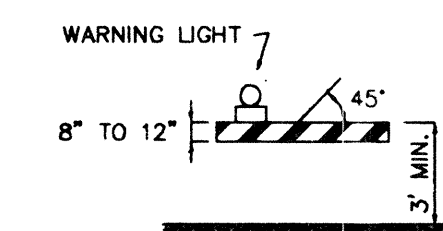
HIGH LEVEL WARNING DEVICE



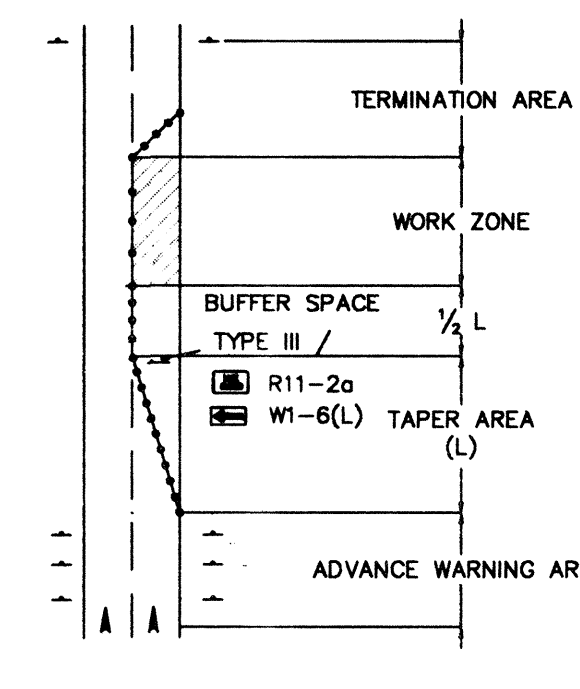
TYPE II BARRICADE COLLAPSIBLE



BARREL

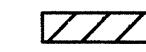


TYPE I BARRICADE COLLAPSIBLE



TRAFFIC CONTROL ELEMENTS

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 (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 FOR ADVANCE WARNING SIGN SERIES

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

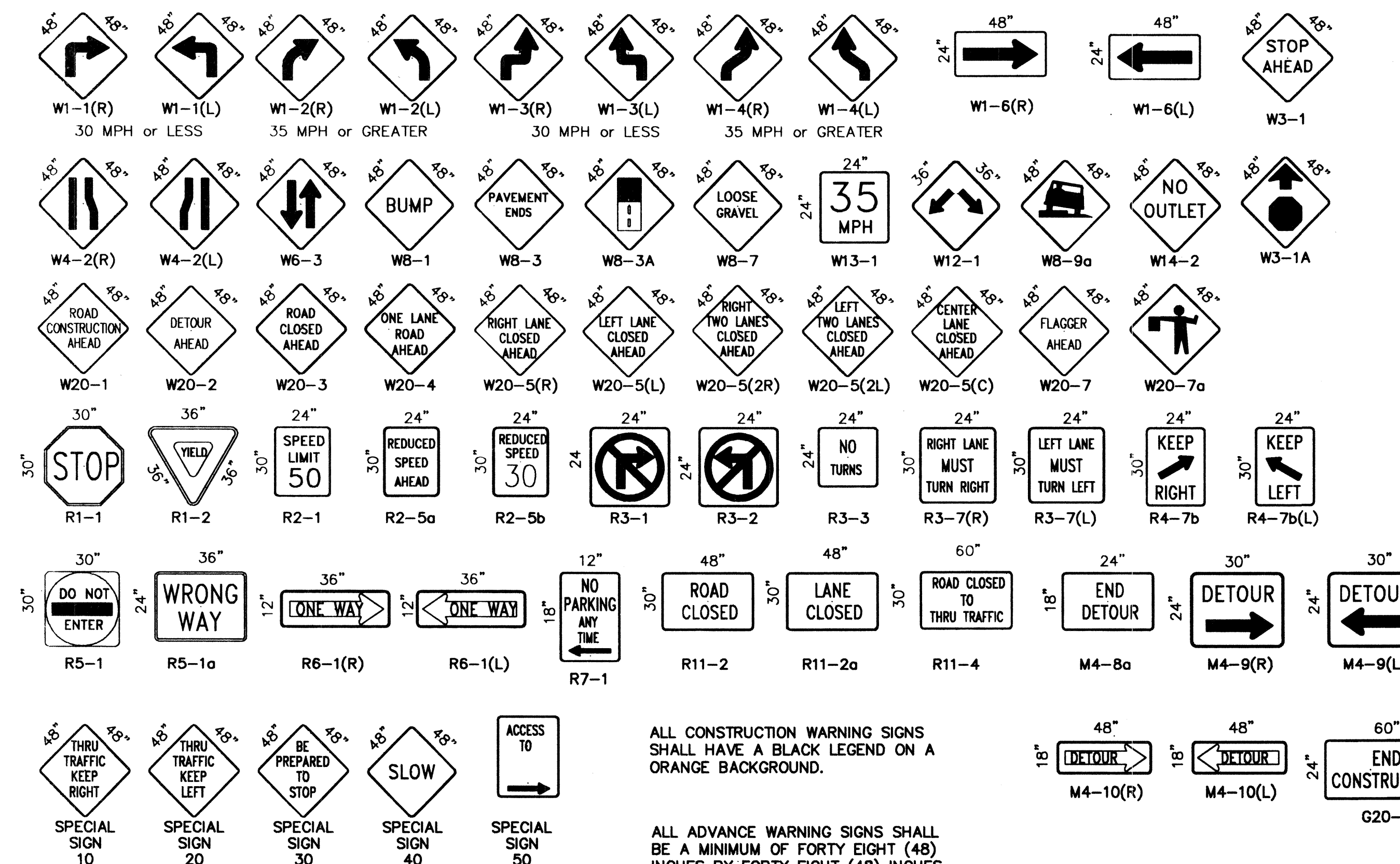
TAPER CRITERIA

TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	1/2 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	$L = \frac{WS^2}{60}$
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	

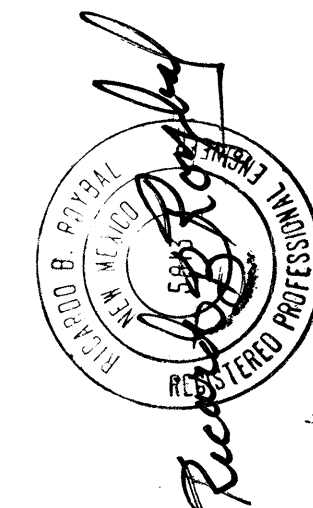
SIGN FACE DETAILS



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

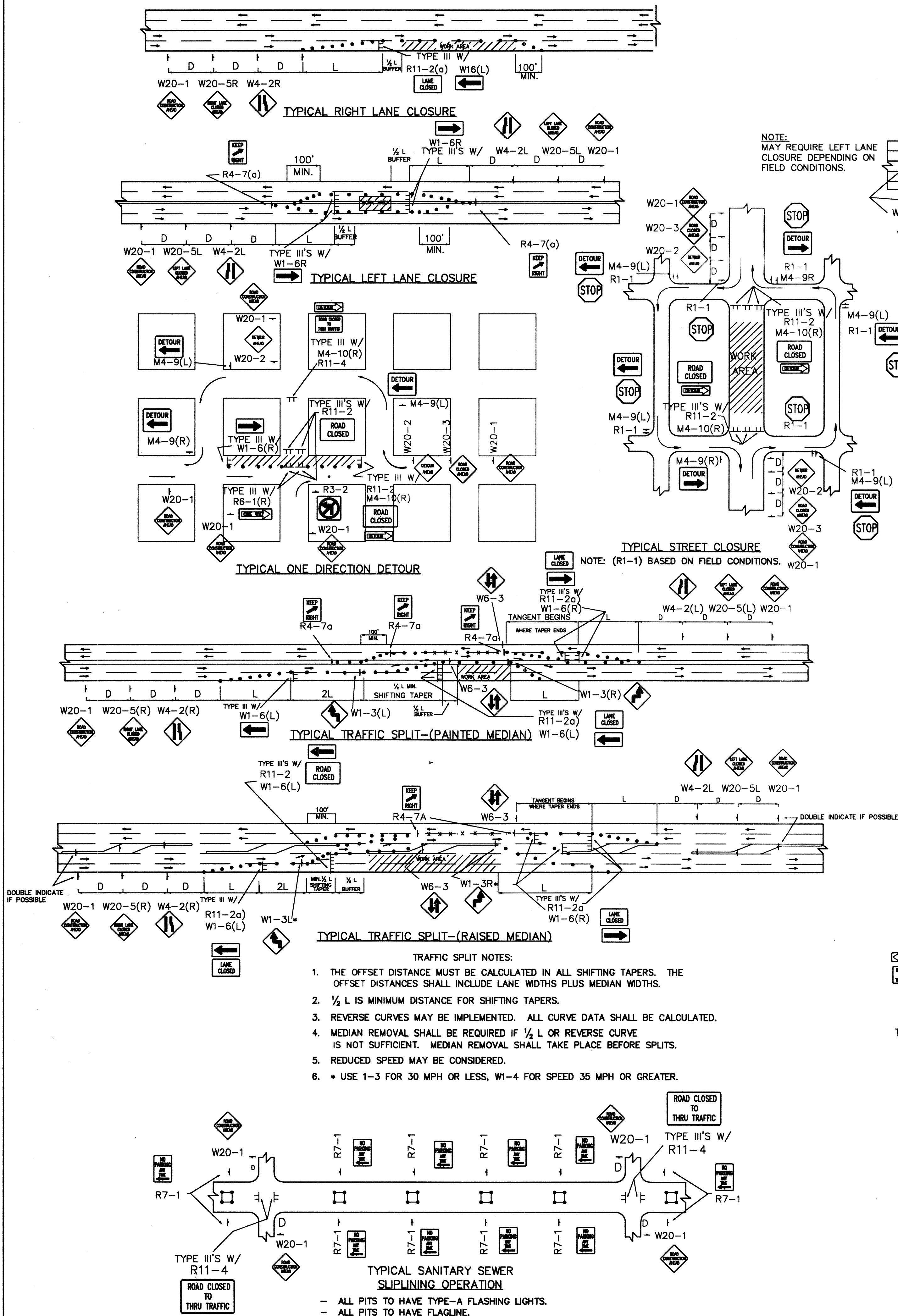
ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF FORTY EIGHT (48) INCHES BY FORTY EIGHT (48) INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
DATE	NO.	DATE	NO.	NO.	DATE	NO.	DATE
CONTRACTOR	DATE	CONTRACTOR	DATE	NO.	DATE	NO.	DATE
INSPECTOR'S	DATE	INSPECTOR'S	DATE	NO.	DATE	NO.	DATE
FIELD	DATE	FIELD	DATE	NO.	DATE	NO.	DATE
APPROVAL BY	DATE	APPROVAL BY	DATE	NO.	DATE	NO.	DATE
CORRECTED BY	DATE	CORRECTED BY	DATE	NO.	DATE	NO.	DATE
RECORDED BY	DATE	RECORDED BY	DATE	NO.	DATE	NO.	DATE
NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE



REMARKS	REVISIONS	DESIGN
NO.	DATE	DATE
1	DATE	DATE
2	DATE	DATE
3	DATE	DATE
4	DATE	DATE
5	DATE	DATE
6	DATE	DATE
7	DATE	DATE
8	DATE	DATE
9	DATE	DATE
10	DATE	DATE

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE:					
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	R. J. A.	5-23-95	WATER	NIA RWK	5-22-95
TRANSPORTATION	NIA RWK	5-12-95	WASTE WATER	NIA RWK	5-22-95
HYDROLOGY					
PROJECT NO.	4835.91	MAP NO.		SHEET OF	7

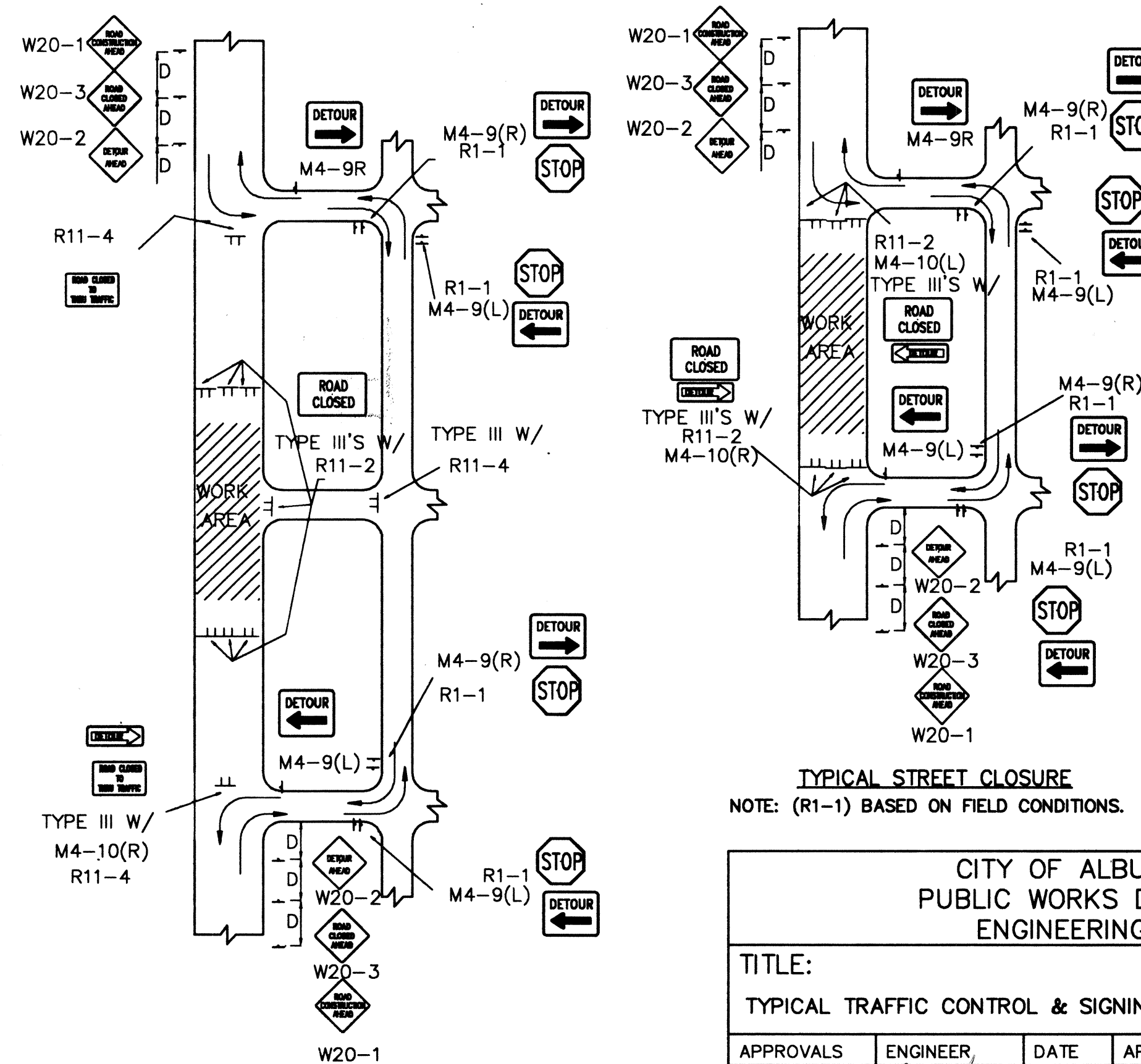
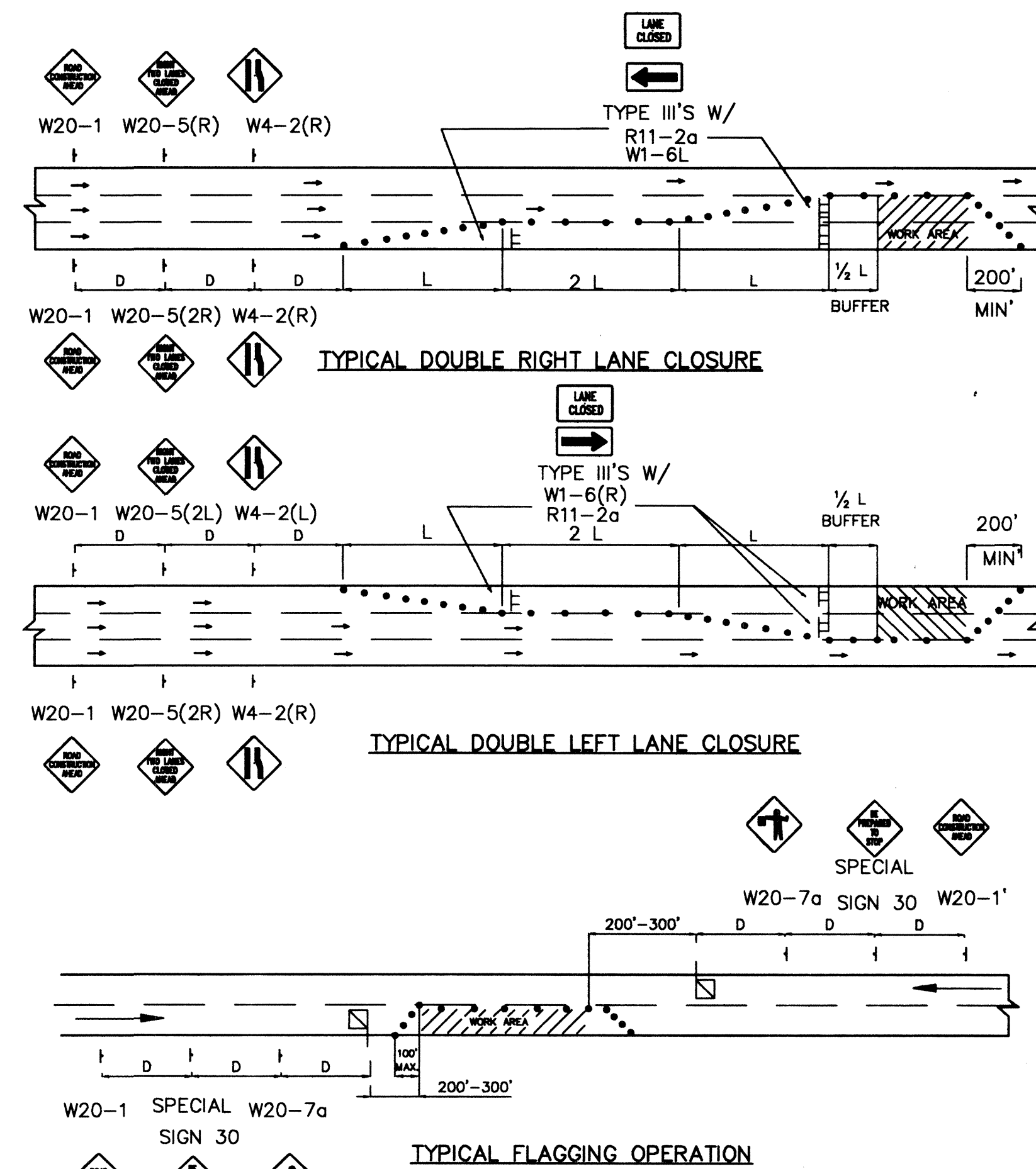


NOTE:
MAY REQUIRE LEFT LANE
CLOSURE DEPENDING ON
FIELD CONDITIONS.

TYPICAL LANE CLOSURE AT INTERSECTION
NOTE: DEPENDING ON WORK ZONE LOCATION

TYPICAL MID-BLOCK CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.

TYPICAL STREET CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



TYPICAL STREET CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	DATE	DATE	DATE	DATE	DATE	NO.	DATE	NO.	DATE	NO.	DATE
REMARKS											
DESIGNED BY RICARDO ROYBAL P.E. DATE NOV. 1991											
DRAWN BY C.A.D.D./WLB/A.F.V. DATE NOV. 1991											
CHECKED BY											
NO. DATE											
REVISIONS											
DESIGN											
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP											
TITLE: TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.)											
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE						
DRG CHAIRMAN	29.5	5-23-95	WATER	N/A RWE	6-22-95						
TRANSPORTATION	N/A CHD	5-12-95	WASTE WATER	N/A RWE	5-22-95						
HYDROLOGY											
PROJECT NO. 4835.91			MAP NO.			SHEET 7			OF 7		