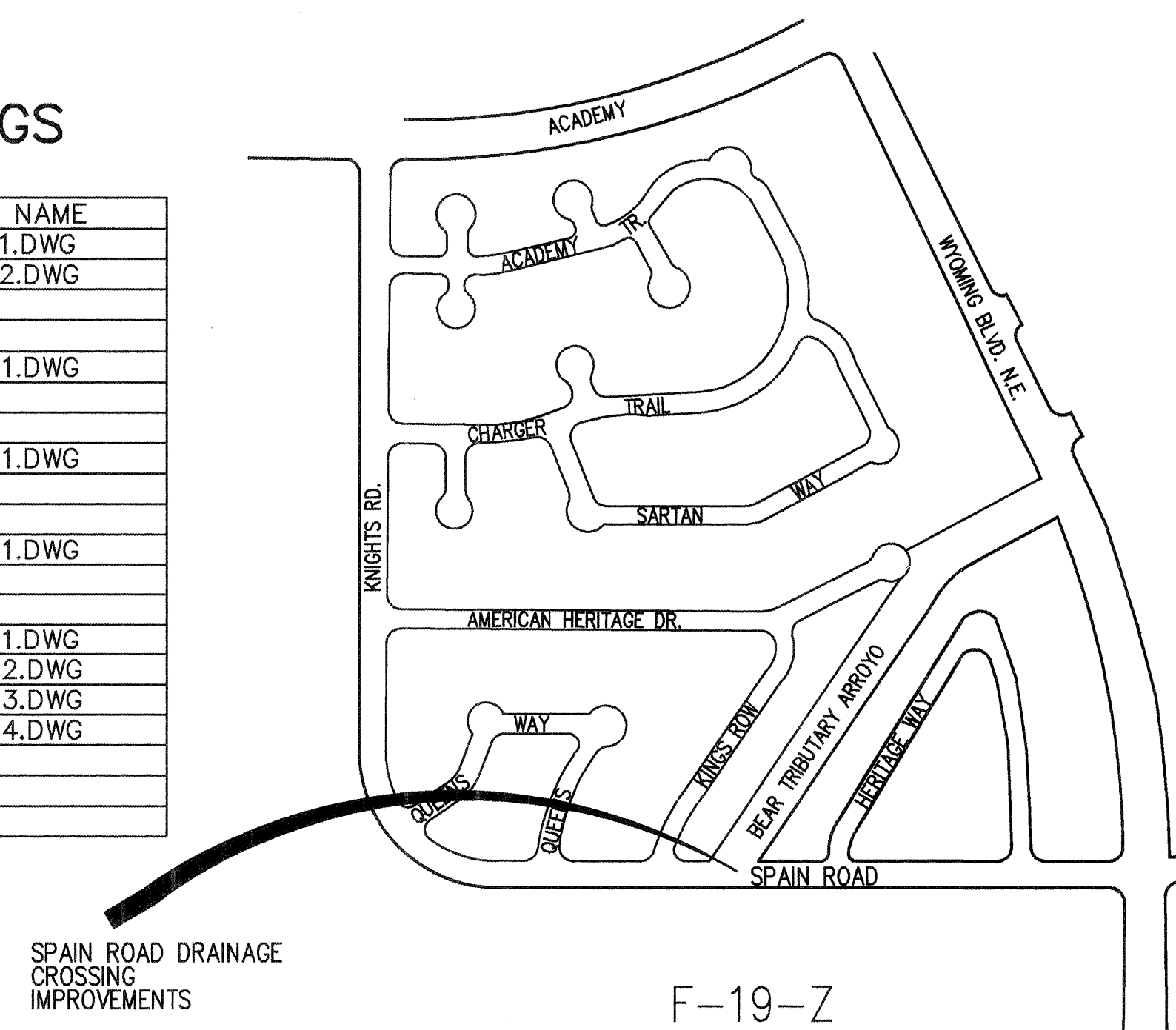


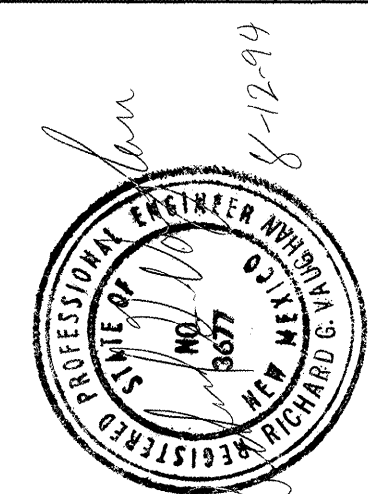
CITY OF ALBUQUERQUE
CITY PROJECT NO. 4606.91



SHEET NO.	DESCRIPTION	FILE NAME
1-1	COVER SHEET – LOCATION MAP – INDEX TO DRAWINGS	S1-1.DWG
1-2	GENERAL NOTES – SCHEDULES	S1-2.DWG
	SUBTOTAL: 2	
2-1	TYPICAL SECTIONS AND DETAILS	S2-1.DWG
	SUBTOTAL: 1	
3-1	ROADWAY P&P – SPAIN ROAD – STA. 0+00 TO 3+00	S3-1.DWG
	SUBTOTAL: 1	
5-1	CONSTRUCTION SIGNING – SIGN FACE DETAILS	S5-1.DWG
	SUBTOTAL: 1	
7-1	BEAR TRIBUTARY CHANNEL PLAN & PROFILE	S7-1.DWG
7-2	STRUCTURE PLAN & SECTIONS	S7-2.DWG
7-3	STRUCTURE PLAN & SECTIONS	S7-3.DWG
7-4	STRUCTURE PLAN & SECTIONS	S7-4.DWG
	SUBTOTAL: 4	



APPROVED FOR CONSTRUCTION: [Signature]
DATE: 4/2/95
CITY ENGINEER

[illegible]

K-V - CADD

KEMPER-VAUGHAN
CONSULTING ENGINEERS
3700 COORS RD. NW
ALBUQUERQUE, NEW MEXICO 87120

COMPUTER FILE: S1-1

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE:	COVER SHEET – LOCATION MAP INDEX TO DRAWINGS
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APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>[Signature]</i>	4-4-95			
Trans. Dev.	<i>[Signature]</i>	2-28-95			
Utility Dev.	<i>[Signature]</i>	2-23-95			
Hydrology	<i>[Signature]</i>	1/7/95			
DRAWING NO.	S1-1 4026 91		MAP NO.	E-19	
			SHEET	1	OF 9

4606.91

SHEET 1-1

GENERAL NOTES AND STRUCTURAL NOTES

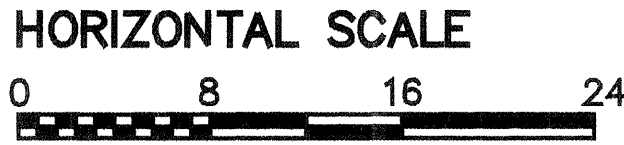
- 1) MATERIALS (ALSO SEE SPECIFICATIONS)
- CONCRETE: DESIGN PER ACI 318-91
 - a. TYPE II CEMENT
 - b. ALL CONCRETE - F'c - 4000 PSI
 - REINFORCING:
 - a. ALL - ASTM A615 - GR. 60 - Fy = 60,000 psi EXPOXY COATED AS NOTED.
 - STRUCTURAL STEEL: DESIGN PER AISC MANUAL - 9TH EDITION
 - a. MISC. SHAPES, ANGLES, CHANNELS, PLATES ASTM A36, Fy = 36,000 psi
 - BOLTS: ASTM A307 OR ASTM A325
 - WELDING: E70XX ELECTRODES
 - FILL MATERIAL: GRANULAR MATERIAL
 - 1 1/2' - 100% PASSING
 - NO. 4 - 25-70% PASSING
 - NO. 10 - 20-55% PASSING
 - NO. 200 - 0-12% PASSING
 - BASE COURSE: 4" ASPHALT TREATED BASE
 - ASPHALT CONCRETE: 3 1/2' BASE AND 1 1/2' SURFACE 1800 LBS STABILITY, TYPE B GRADATION

2) GENERAL CONSTRUCTION NOTES

- A) FOUNDATION NOTES:
1. FOOTINGS SHALL REST ON GRANULAR FILL SOIL AT DEPTHS SHOWN. IN THE EVENT OF OVER EXCAVATION FOR FOOTINGS, OVER EXCAVATED PORTION SHALL BE FILLED WITH CONCRETE TO THE CORRECT ELEVATION. SUCH CONCRETE WILL BE OF SAME QUALITY AS THAT SPECIFIED FOR FOOTINGS AND AT NO EXPENSE TO THE CITY.
- B) CAST-IN-PLACE CONCRETE NOTES:
1. UNLESS OTHERWISE NOTED, CONCRETE COVERAGE OVER REINFORCEMENT SHALL CONFORM TO SECTION 7.7.1 OF THE ACI STANDARD 318-91.
 2. UNLESS OTHERWISE SHOWN, MINIMUM SPLICE LAP ON ALL REINFORCING BARS SHALL BE 30 BAR DIAMETERS.
 3. TOP 12 INCHES OF SUBGRADE MATERIAL AND ALL FILL LAYERS BELOW ALL SLABS ON GRADE SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS PER ASTM D1557.
 4. CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES TO INSURE THAT ALL ANCHORS, EMBEDDED ITEMS, RECESSED AREAS AND PENETRATIONS COMPLY WITH DETAILS AS SHOWN ON DRAWING OR OTHERWISE SPECIFIED.
- C) RAISING EXISTING SAS MANHOLE TO GRADE SHALL CONFORM TO CITY OF ALBUQUERQUE SPECS 920.4.2.1, 920.4.2.2, 920.4.2.3 AND 920.4.2.5.

3) EXISTING UTILITIES PROTECTION NOTES:

- A. NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN HEREDON AND THAT ANY EXISTING UTILITIES THAT ARE SHOWN, ARE IN AN APPROXIMATE LOCATION ONLY. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATIONS TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY HIS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES.
- B. THE CARE AND PROTECTION OF ALL OTHER UTILITIES, AND OTHER STREET APPURTENANCES THAT ARE NOT PART OF THE INTENDED WORK AS SHOWN ON THE PLANS ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF DAMAGED, LOST IN TRENCH, OR OTHERWISE HARMFULLY DISTURBED, THESE DAMAGES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- C. WATER SHUT-OFF PLANS ARE FOR CITY USE ONLY. CONTRACTOR IS REQUIRED TO NOTIFY WATER SYSTEMS THREE WORKING DAYS PRIOR TO ANY REQUIRED OPERATIONS (857-0200). WATER SYSTEM SHUT-OFFS AND TURN-ONS SHALL BE PER SECTION 18.3 OF THE GENERAL CONDITIONS.



SUMMARY OF QUANTITIES

ITEM NO	DESCRIPTION	UNIT	ROADWAY		PROJECT	
			ESTIMATE	FINAL	ESTIMATE	FINAL
0004.01	STKG	JOB	LS		1.00	
0019.02	TRAFF CONT & BARR	JOB	LS		1.00	
0201.01	SITE CLEAR & GRUB	JOB	LS		1.00	
0205.01	FILL, BORROW, HAUL, & COMP	CY	2734.00		2734.00	
0301.02	SUBGRADE PREP, ART, 12"	SY	1411.00		1411.00	
0307.01	AT BS, 4", 1000, M	SY	1394.00		1394.00	
0336.01	PRIME CT	SY	1394.00		1394.00	
0336.11	3-1/2" AC BS, 1800, M	SY	1394.00		1394.00	
0336.12	TK CT	SY	2787.00		2787.00	
0336.17	1-1/2" AC SFC, 1800, M	SY	1394.00		1394.00	
0340.01	SDWK, 4", PCC	SY	303.00		303.00	
0340.05	C & G, STD, PCC	LF	561.00		561.00	
0343.02	AC PVMT, <4", SAW, REM & DISP	SY	504.00		504.00	
0343.05	CONC PVMT, <4", SAW, REM & DISP	SY	1614.00		1614.00	
0343.08	CURB & GUT, PCC, REM & DISP	LF	420.00		420.00	
0410.01	CHAIN LINK FNC - 6' HIGH	SF	384.00		384.00	
0410.03	CH LN FNC, REM & REINST	SF	708.00		708.00	
0510.11	STR CONC. 4000 RPCC, FORM	CY	492.00		492.00	
0550.02	METAL RAILING TYPE D	LF	106.00		106.00	
0550.03	METAL BARRIER - W-BEAM	LF	204.00		204.00	
0550.04	METAL BARRIER - TYPE C ANCHORAGE	EA	2.00		2.00	
0601.01	EXCAV/BF/COMP, CHNLS	CY	272.00		272.00	
0601.02	EXCAV & DISP, U, CHNLS	CY	413.00		413.00	
0602.01	CHNL LIN, 6" RPCC	SF	5360.00		5360.00	
0603.01	WIRE-ENCL RIPRAP	CY	65.00		65.00	
0910.09	24" RCP, III	LF	35.00		35.00	
0915.04	CTH BSN, C, DG	EA	3.00		3.00	
0920.41	MH F & C, ADJ W/CONC RINGS	EA	1.00		1.00	

INDEX TO STANDARD DETAIL DRAWINGS

DRAWING NO.	TITLE	WORK AREA
2205	STORM INLET DOUBLE "C" AND SINGLE "C"	DRAINAGE
2215	STORM INLET CENTER SUPPORT ASSEMBLY	DRAINAGE
2216	STORM INLET FRAME	DRAINAGE
2220	STORM INLET ALBUQUERQUE GRATE	DRAINAGE
2270	WIRE ENCLOSED RIPRAP	DRAINAGE
2415	CURB AND GUTTER & TEMPORARY PAVING SECTION	PAVING
2430	SIDEWALK DETAILS	PAVING
2451	CONCRETE JOINTS TYPE 5 & 6	PAVING
2601	METAL RAILING TYPE D	STRUCTURE
2610	METAL BARRIER MATERIALS AND PLACEMENT PROCEDURES	STRUCTURE
SHT. 1 of 2	SIGNING & CONSTRUCTION CONTROL STANDARDS	TRAFFIC CONTROL
SHT. 2 of 2	TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. MUTCD)	TRAFFIC CONTROL

DRAWINGS APPENDED TO DESIGN DRAWINGS

NOTES:

- ALL WORK TO BE IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS, 1986 EDITION (AS UPDATED WITH REVISION #5#), OR PER ATTACHED SPECIFICATIONS.
- THE WATER SYSTEMS DIVISION (857-8200) SHALL BE NOTIFIED (5) FIVE WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT EXISTING PUBLIC WATER FACILITIES. THE CONTRACTOR SHALL ALSO COORDINATE VALVE OPERATION FOR WATER SHUTOFF.
- THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. REFER TO SECTION 19 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS. 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 CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED IN KIND BY CONTRACTOR TO LOCATION AND IN KIND AS EXISTING OR AS INDICATED BY THIS PLAN SET.
- THE CONTRACTOR SHALL CONTACT NEW MEXICO ONE CALL SYSTEM PHONE: 260-1990, TO LOCATE UNDERGROUND UTILITIES 2 WORK DAYS PRIOR TO BEGINNING EXCAVATION.
- THE CONTRACTOR SHALL CONTACT TRAFFIC ENGINEERING OPERATIONS 764-1599 FOR REMOVAL AND REPLACEMENT OF TRAFFIC SIGNS.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, UNLESS NOTED OTHERWISE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 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.
- 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.
- FOR PURPOSES OF THE PROJECT THE TERM ENGINEER SHALL REFER TO EITHER THE OWNER'S EMPLOYEE OR THE ENGINEER RESPONSIBLE FOR CONSTRUCTION INSPECTION OF THE PROJECT.
- ALL REFERENCES TO COMPACTED BACKFILL OR COMPACTED SUBGRADE SHALL MEAN SOIL COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 UNLESS OTHERWISE NOTED.
- 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 THE 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.

K-V - CADD

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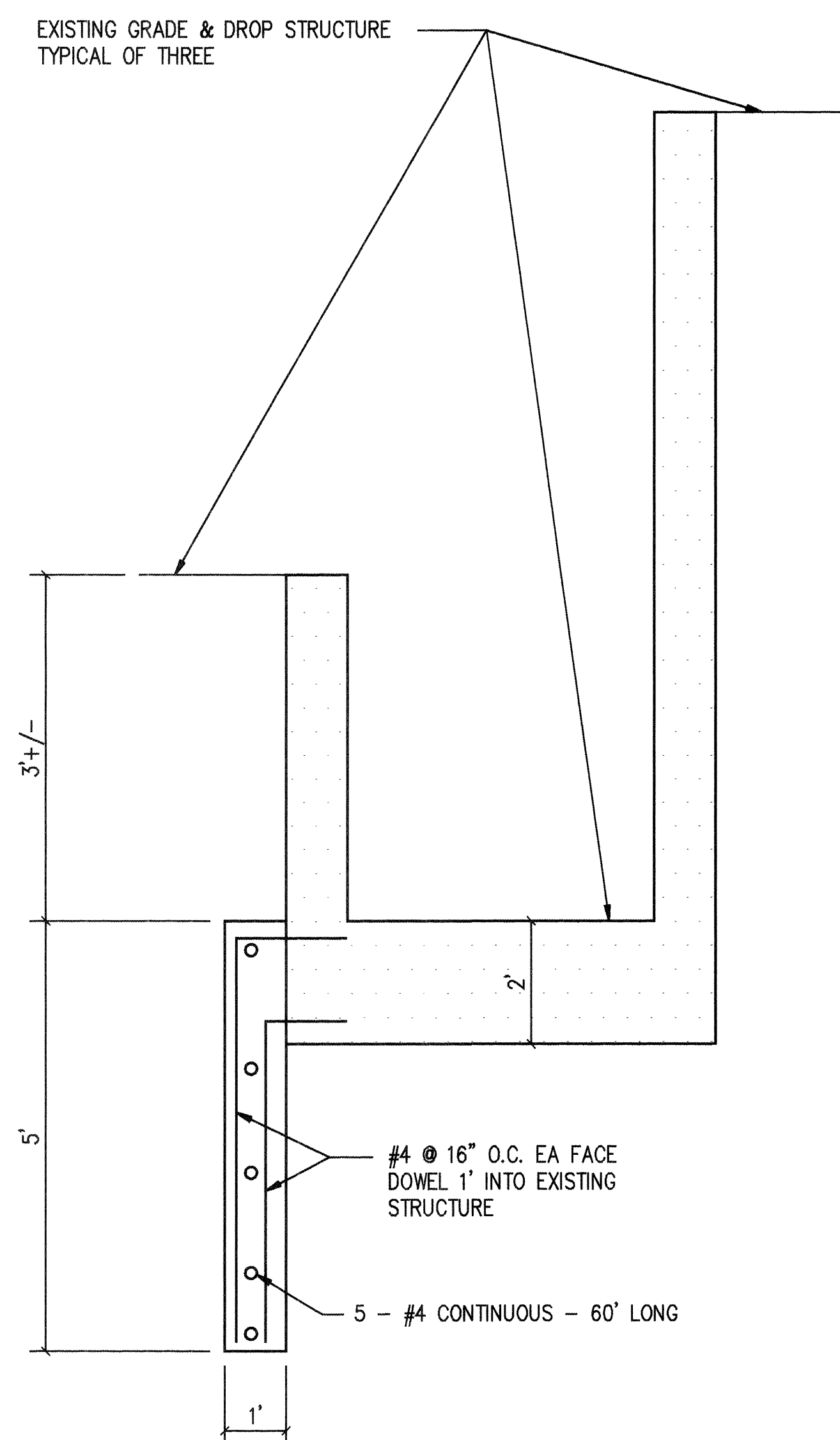
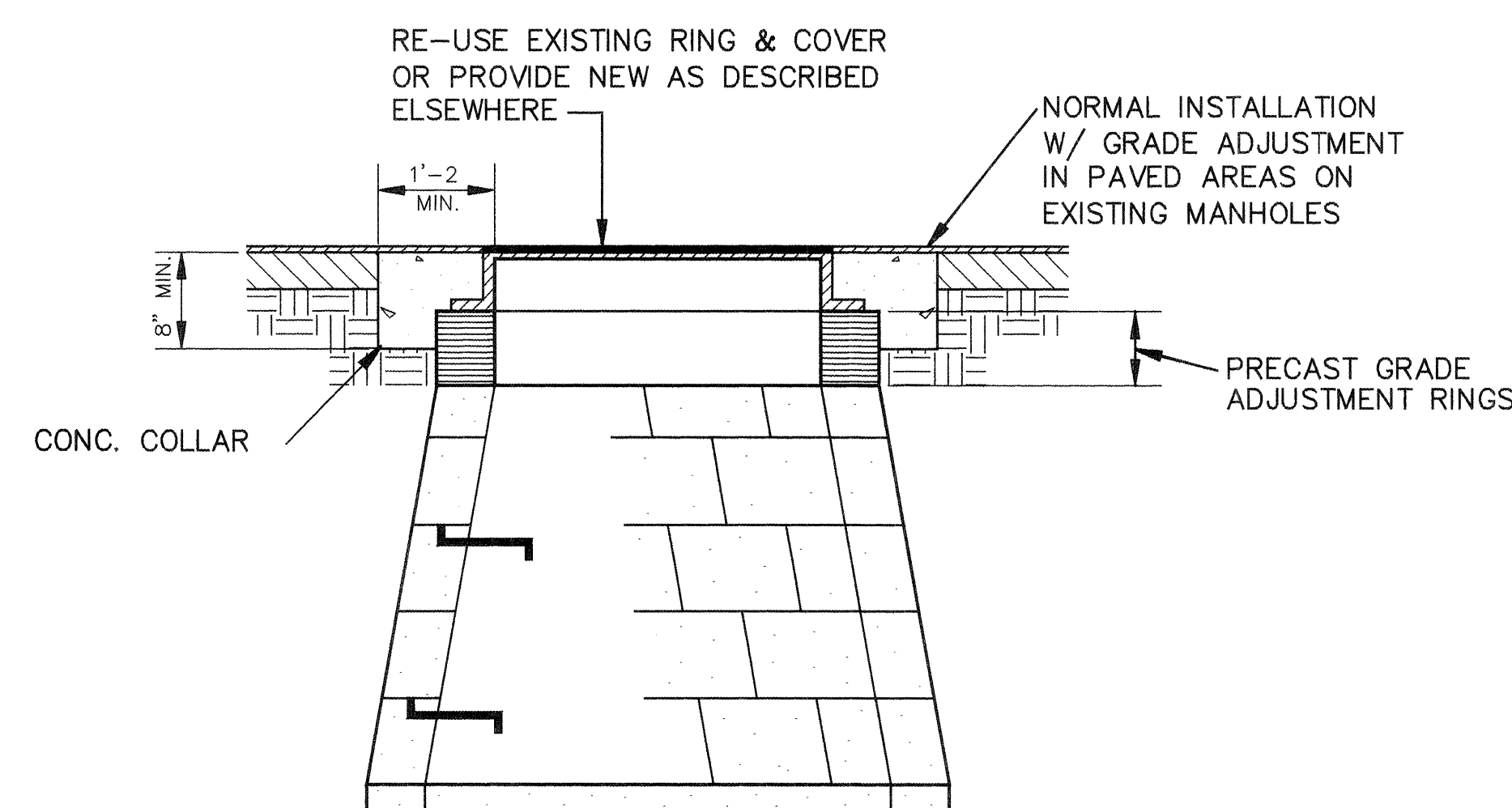
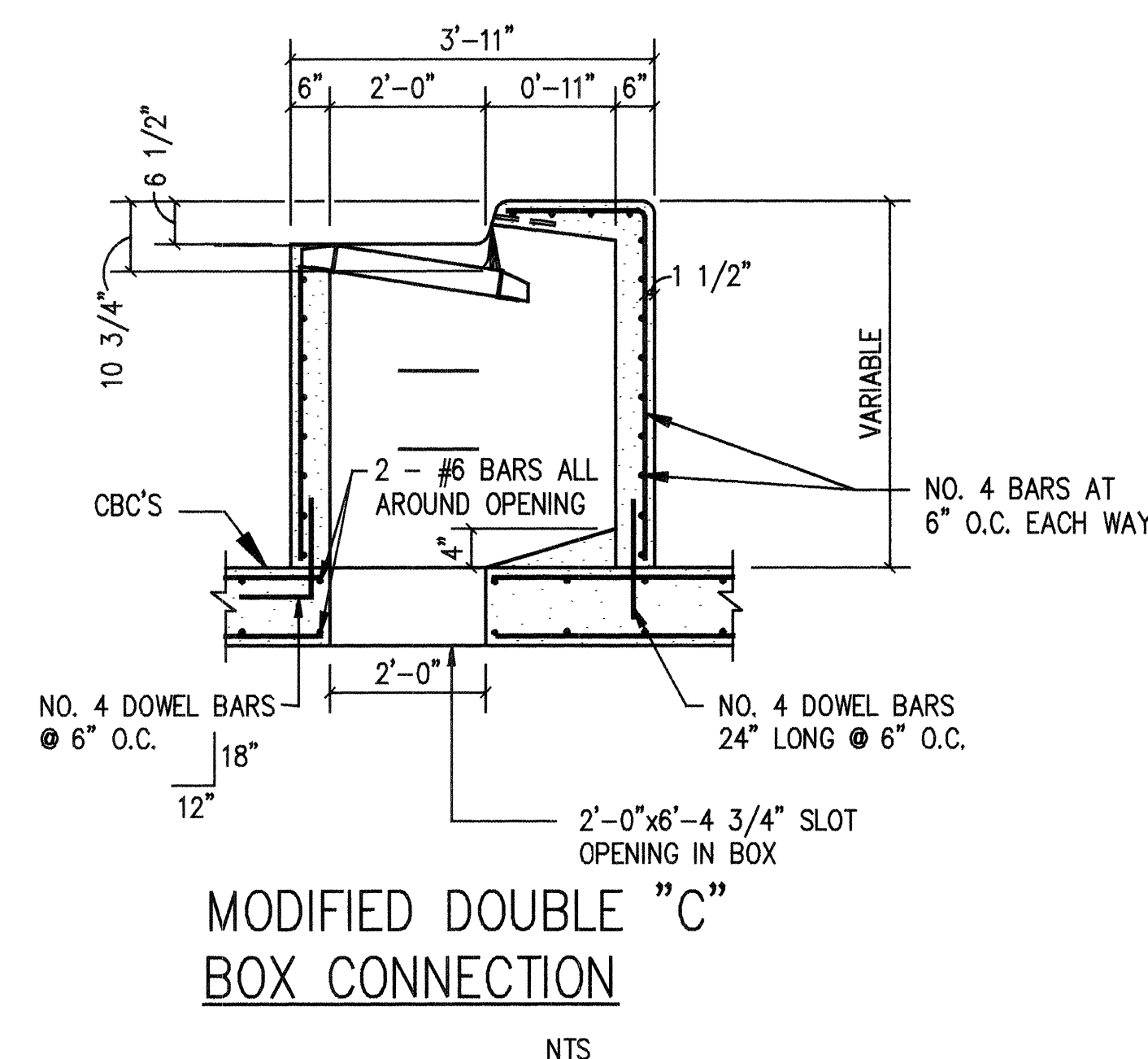
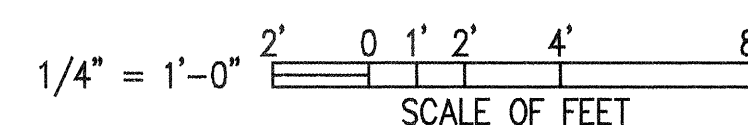
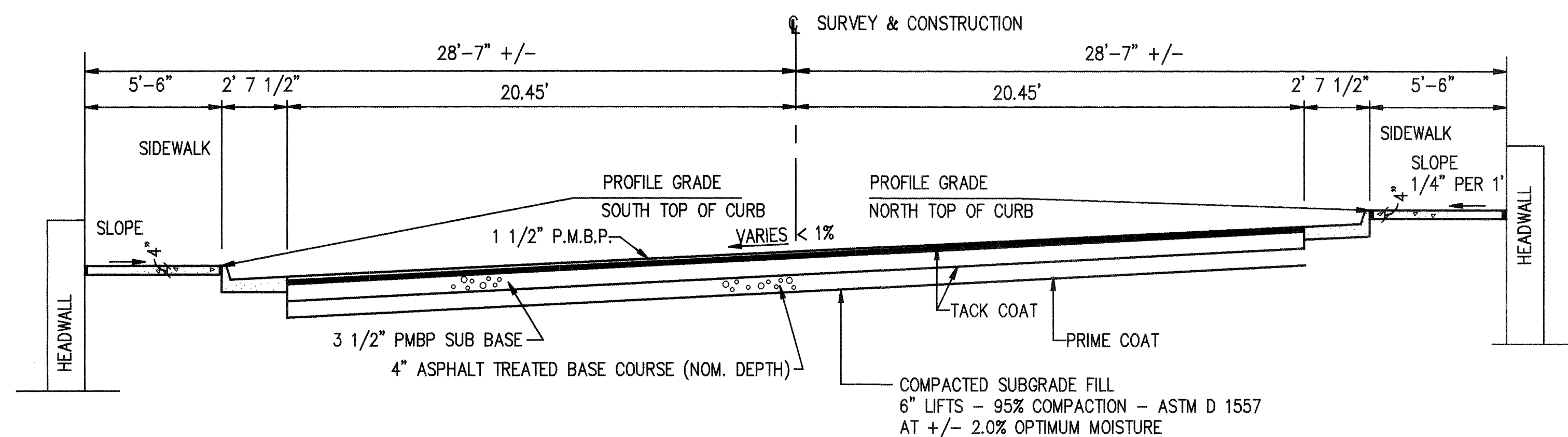
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: GENERAL NOTES - SCHEDULES

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>[Signature]</i>	4-4-95			
Trans. Dev.	<i>[Signature]</i>	2-22-95			
Utility Dev.	<i>[Signature]</i>	2-23-95			
Hydrology	<i>[Signature]</i>	1/17/95			
DRAWING NO.	S1-2 4606.91	MAP NO.	F-19	SHEET	2 OF 9

4606.91



NOTES:

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ALBUQUERQUE, NEW MEXICO 87120

COMPUTER FILE: S2-1

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

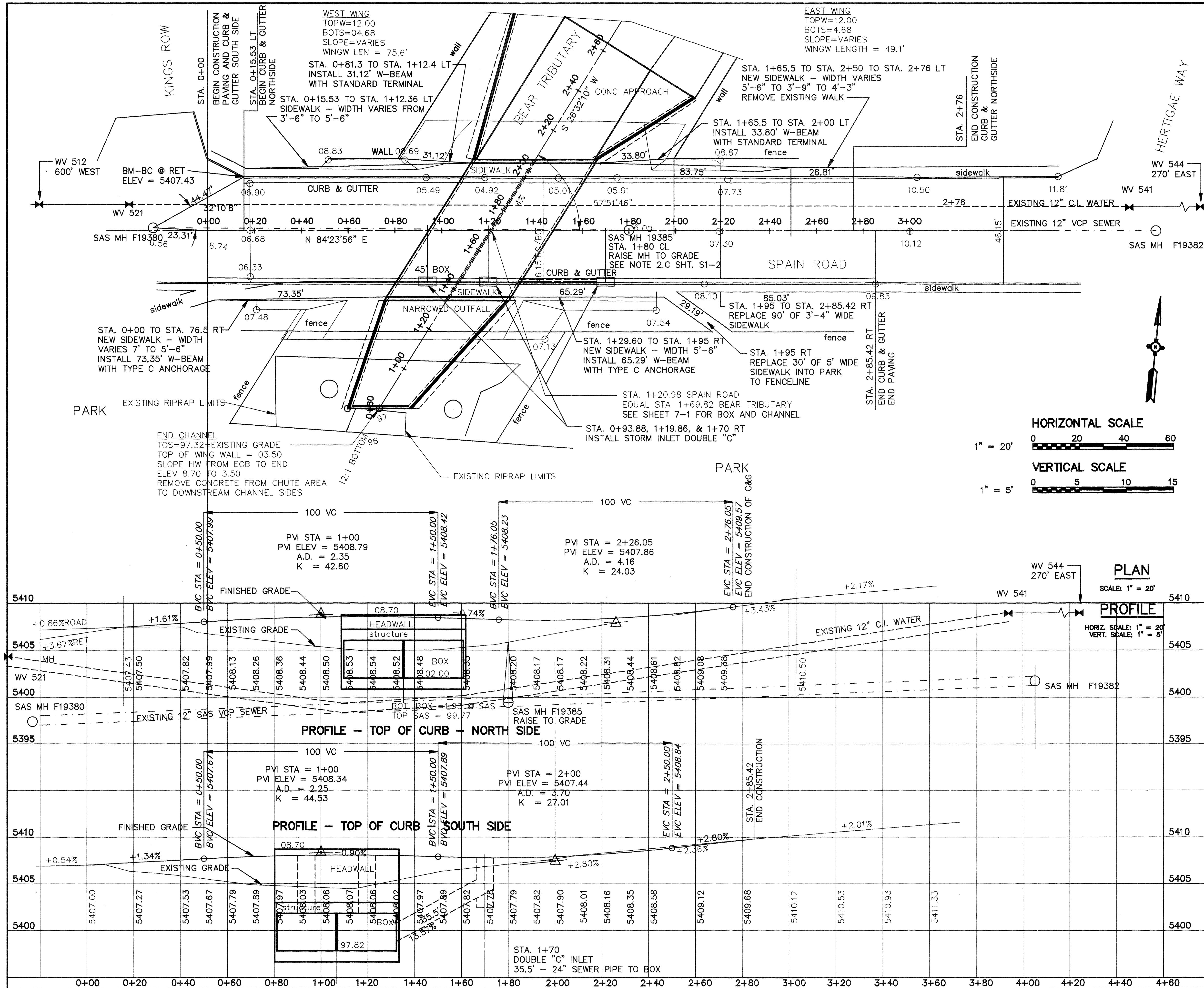
TITLE: TYPICAL SECTIONS & DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>[Signature]</i>	4.4.95			
Trans. Dev.	<i>[Signature]</i>	4.23.95			
Utility Dev.	<i>[Signature]</i>	4.23.95			
Hydrology	<i>[Signature]</i>	4/17/95			
DRAWING NO.	S2-14606.91	MAP NO.	F-19	SHEET	3 OF 9

4606.91

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE	NO.	CONTRACTOR	DATE
				STAKED BY	DATE
				INSPECTED BY	DATE
				VERIFICATION BY	DATE
				DRAWINGS BY	DATE
				MICRO-FILM INFORMATION	DATE
				RECORDED BY	DATE
				NO.	





NOTES:

AS BUILT INFORMATION

CONTRACTOR: _____

DATE: _____

INSPECTED BY: _____

DATE: _____

VERIFICATION BY: _____

DATE: _____

MICRO-FILM INFORMATION

RECORDED BY: _____

DATE: _____

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER

STATE OF NEW MEXICO

EXPIRATION DATE: 12/31/2008

NO. 2-2795

COMPUTER FILE: S3-1

CITY OF ALBUQUERQUE

PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION

TITLE: ROADWAY PLAN & PROFILE

SPAIN ROAD

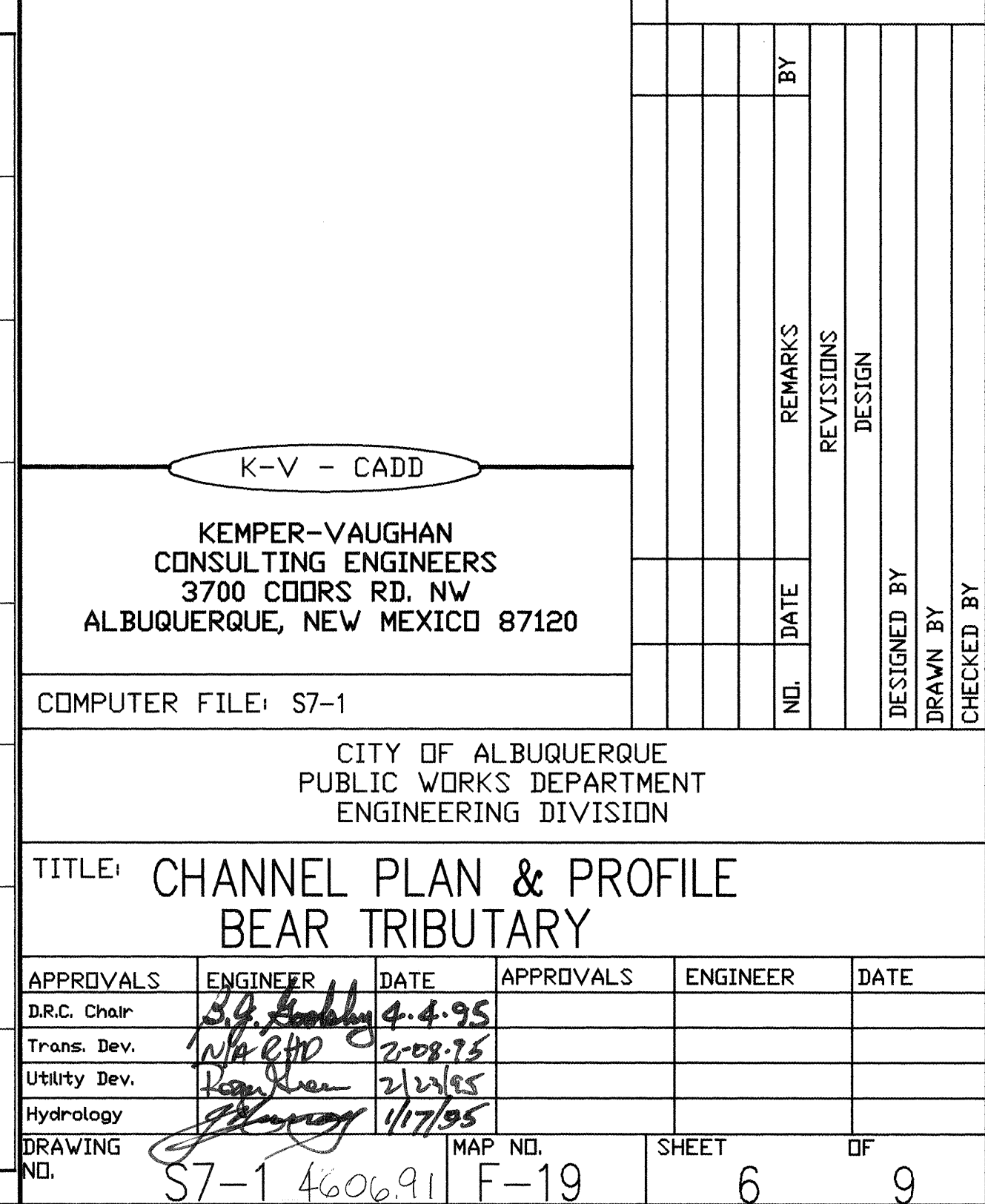
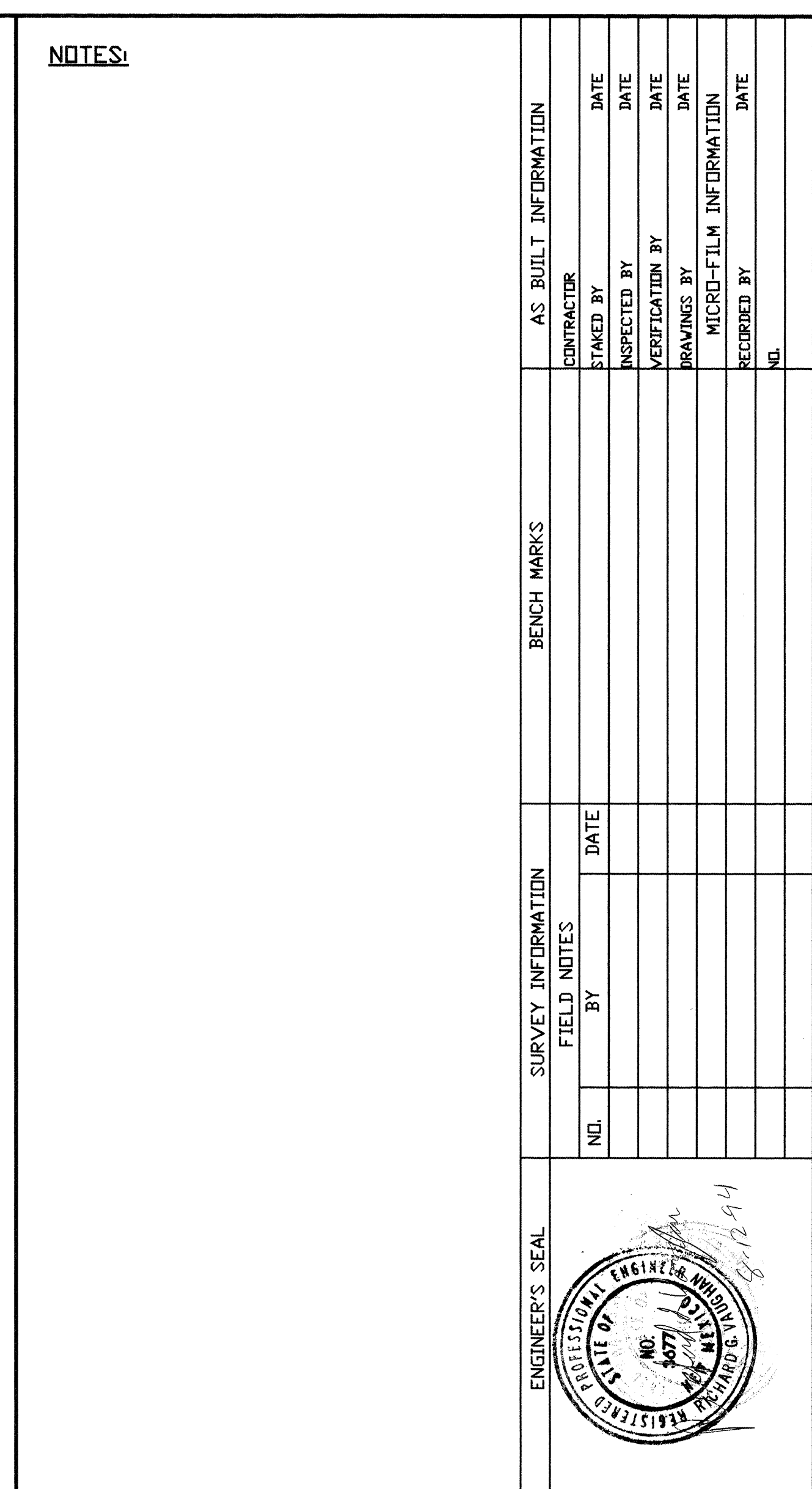
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>[Signature]</i>	4.4.95			
Trans. Dev.	<i>[Signature]</i>	6.28.95			
Utility Dev.	<i>[Signature]</i>	2.22.95			
Hydrology	<i>[Signature]</i>	6.17.95			

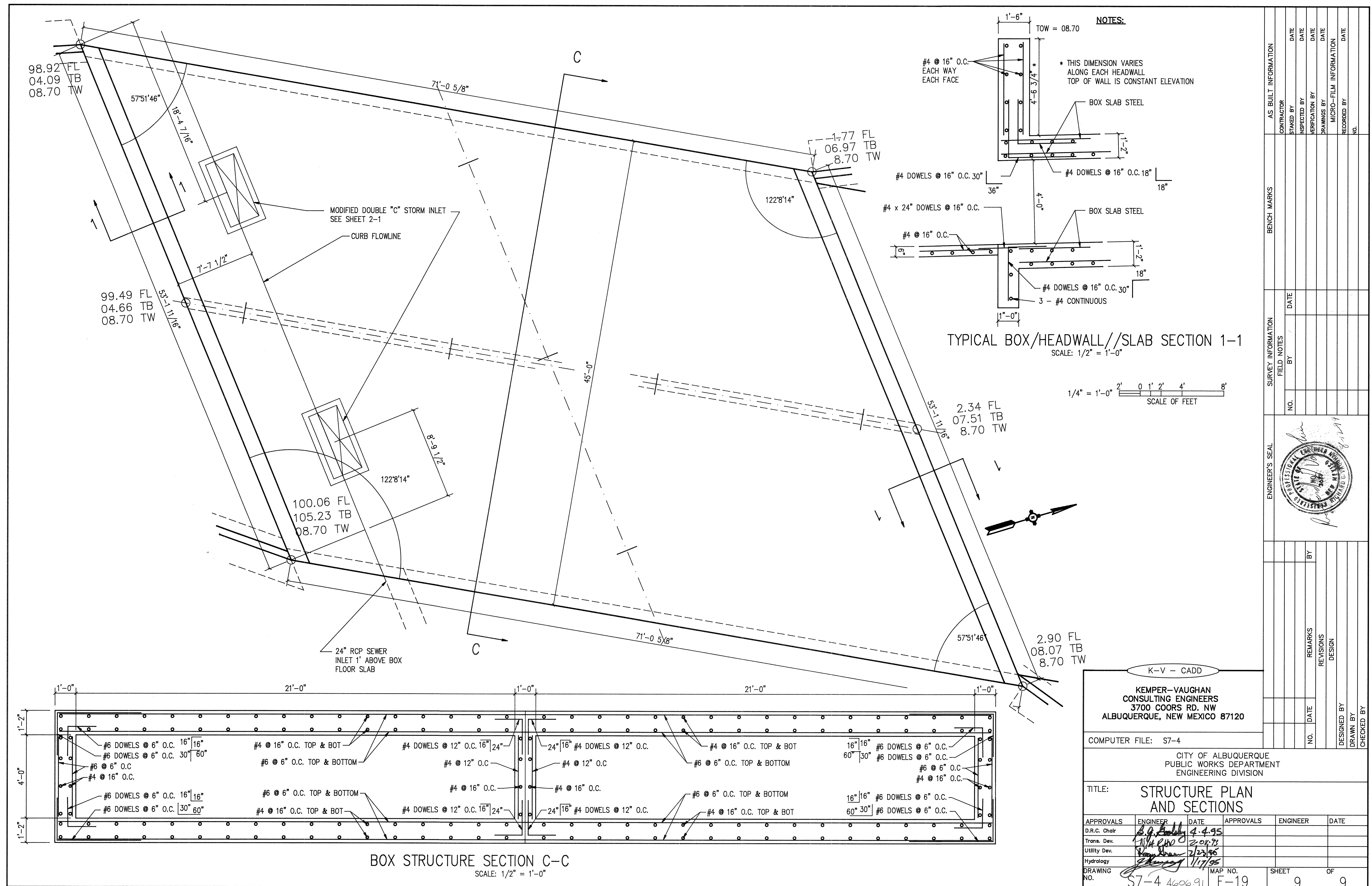
DRAWING NO. S3-1 4606.91

MAP NO. F-19

SHEET 4 OF 9

4606.91





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ALBUQUERQUE, NEW MEXICO 87120

COMPUTER FILE: S7-4

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: STRUCTURE PLAN
AND SECTIONS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chahr	<i>B.G. Chahr</i>	4.4.95			
Trans. Dev.	<i>M.H. Chahr</i>	2.08.95			
Utility Dev.	<i>B.G. Chahr</i>	2/23/96			
Hydrology	<i>Chahr</i>	1/17/95			
DRAWING NO.	S7-4 400691		MAP NO. F-19		SHEET 9 OF 9

4606.91

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. 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 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.

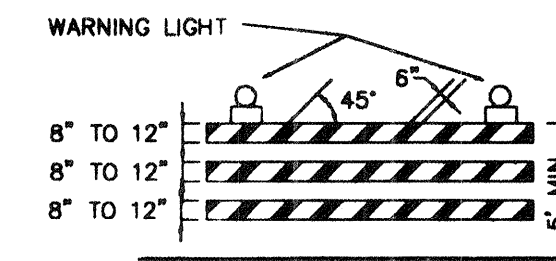
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

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

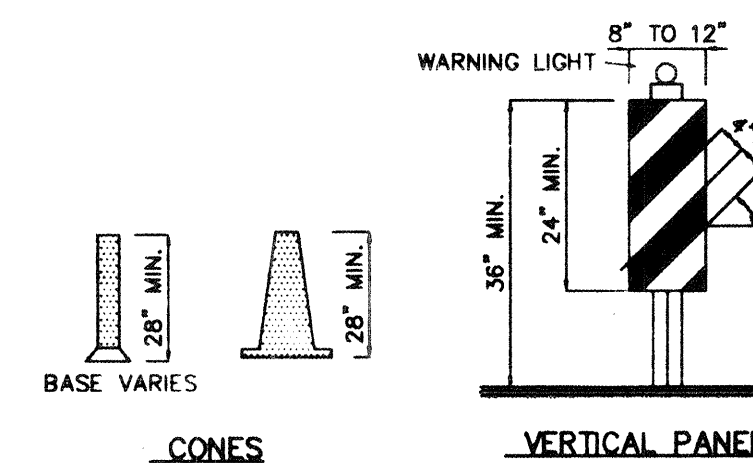
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

PROJECT CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

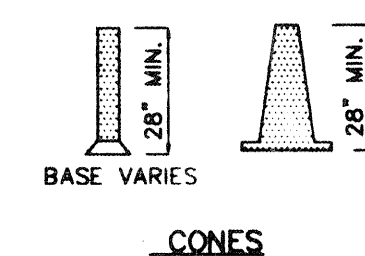
ADVANCE WARNING SIGNS TO BE 36" X 36" WITH SUPER ENGINEERING GRADE RETRO REFLECTIVE SHEETING. 48" X 48" SHALL NOT BE USED. PER RICARDO ROYBAL



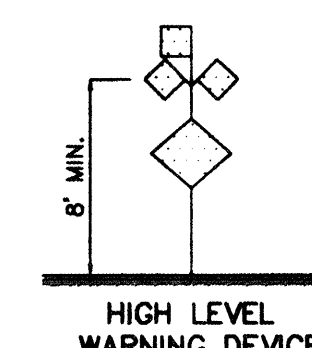
TYPE III BARRICADE



VERTICAL PANEL



CONES



HIGH LEVEL WARNING DEVICE

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 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

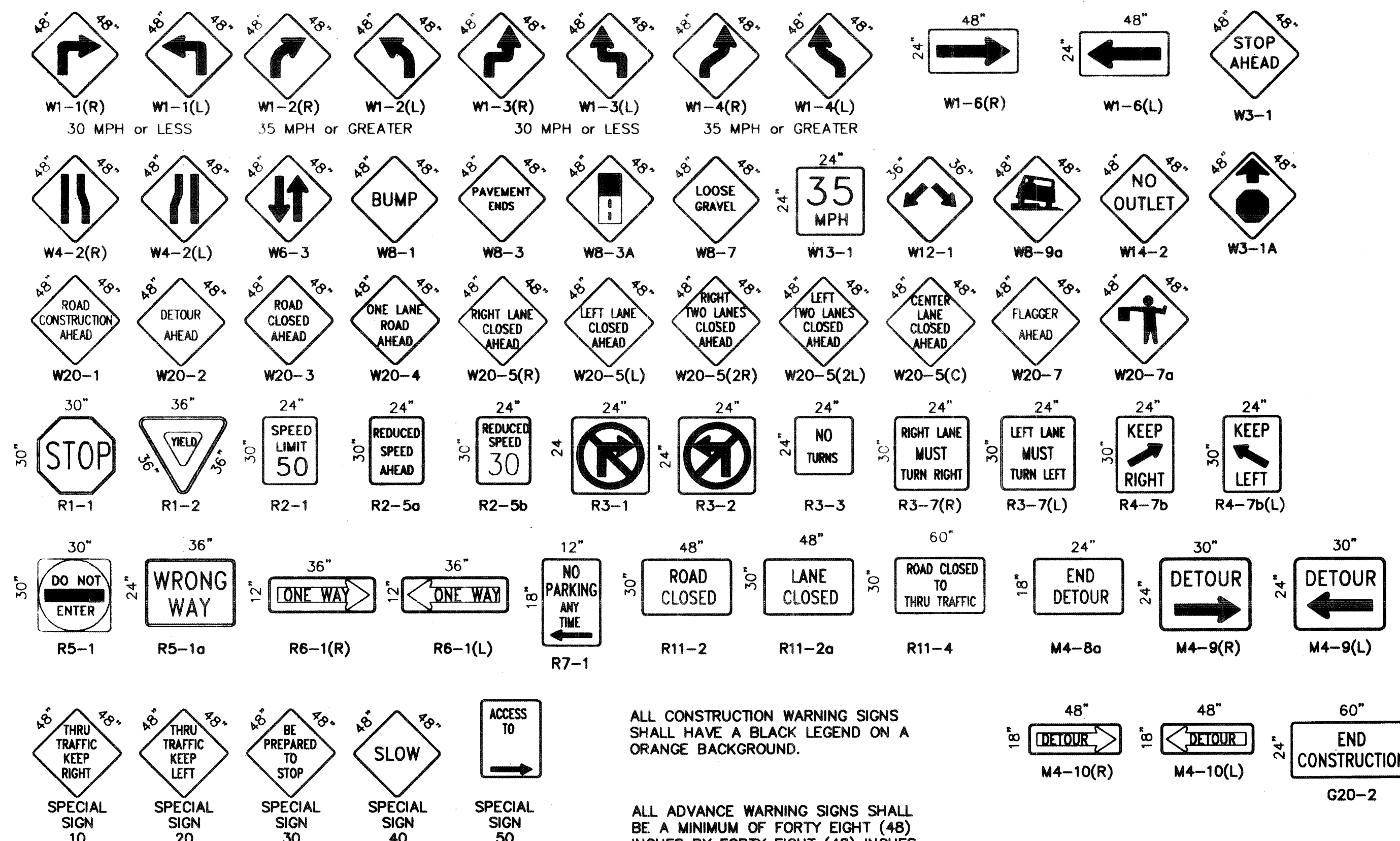
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT	L = WS ² / 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



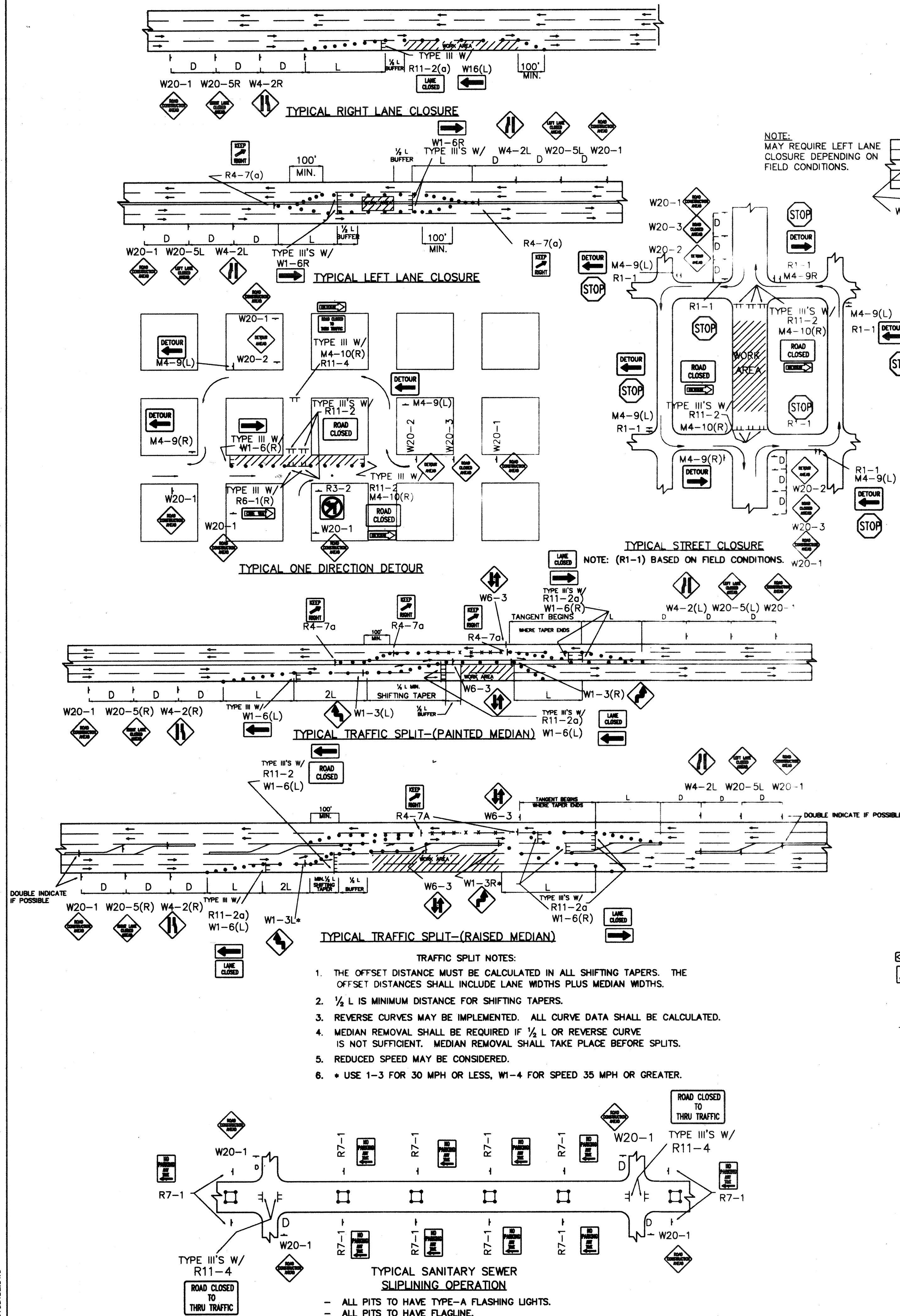
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

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.

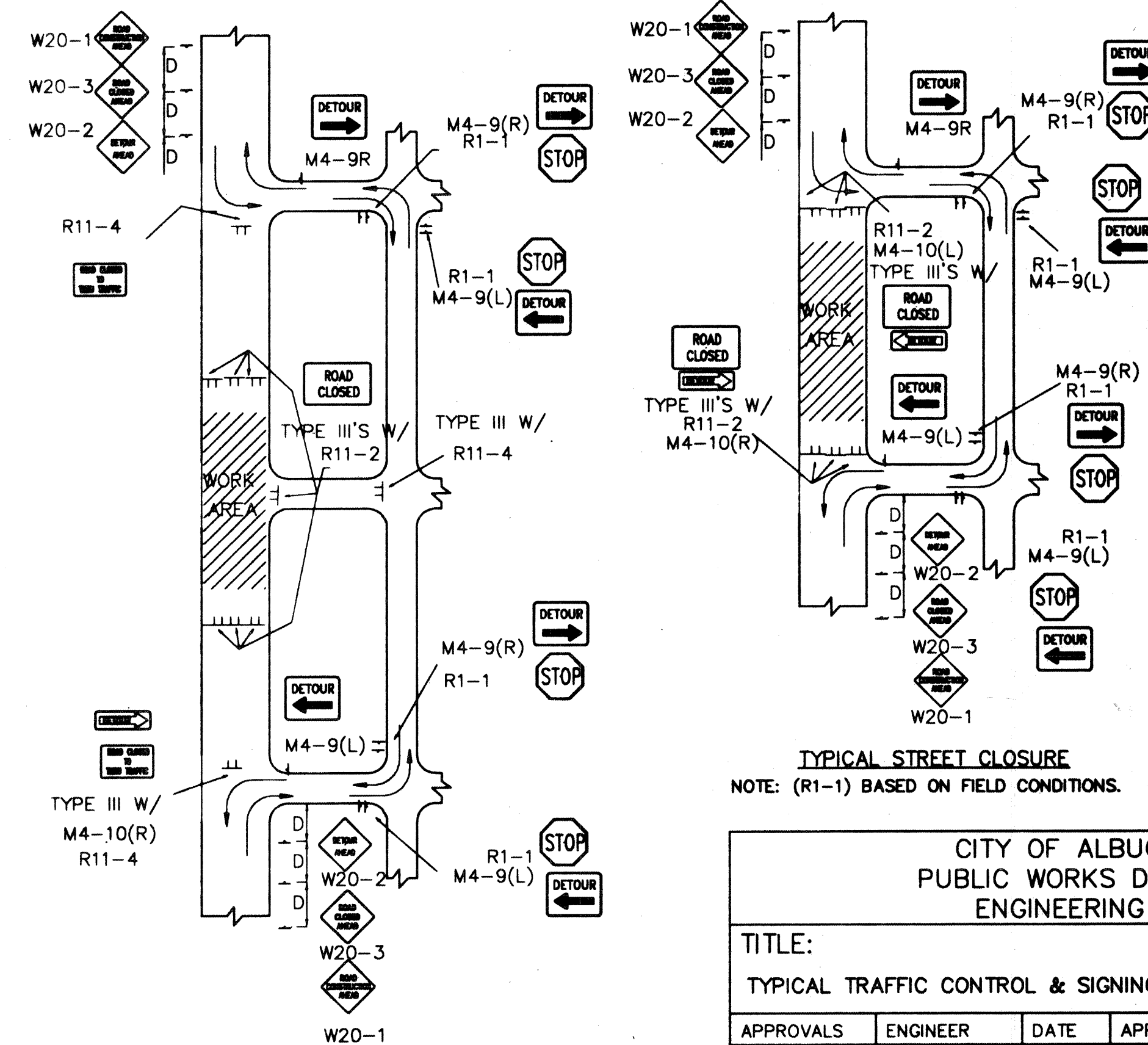
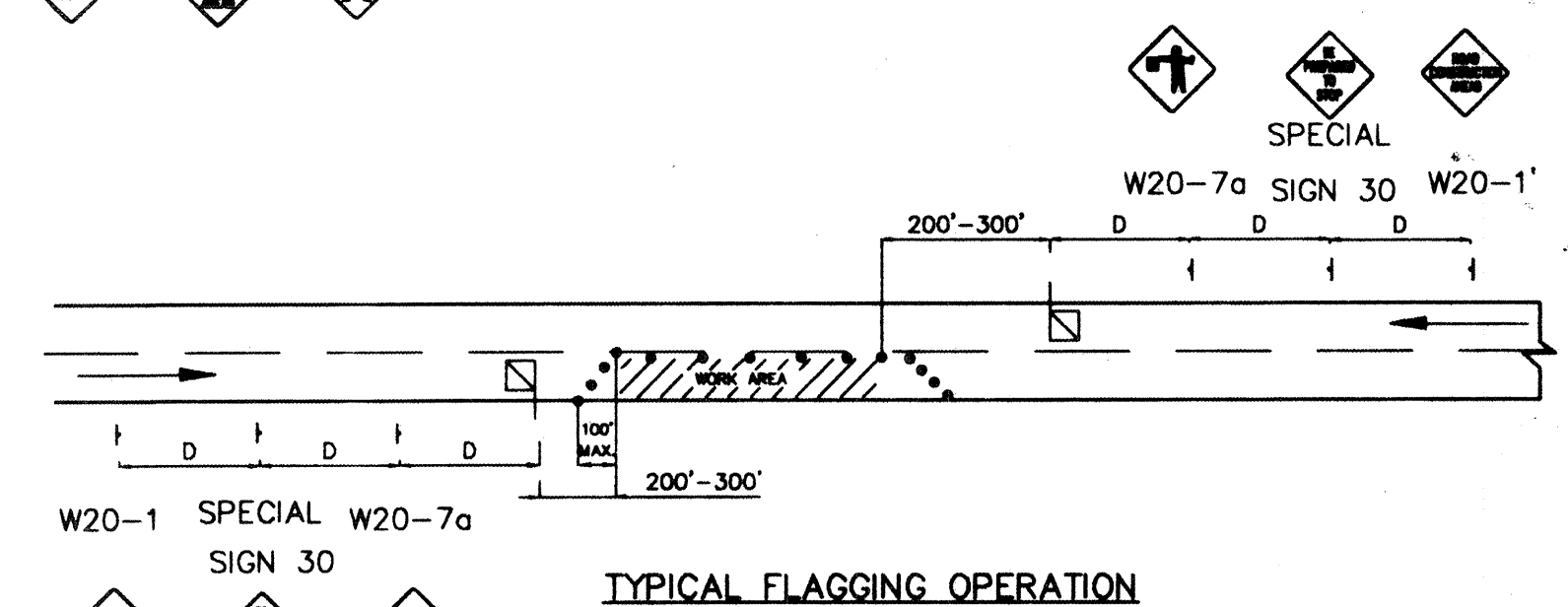
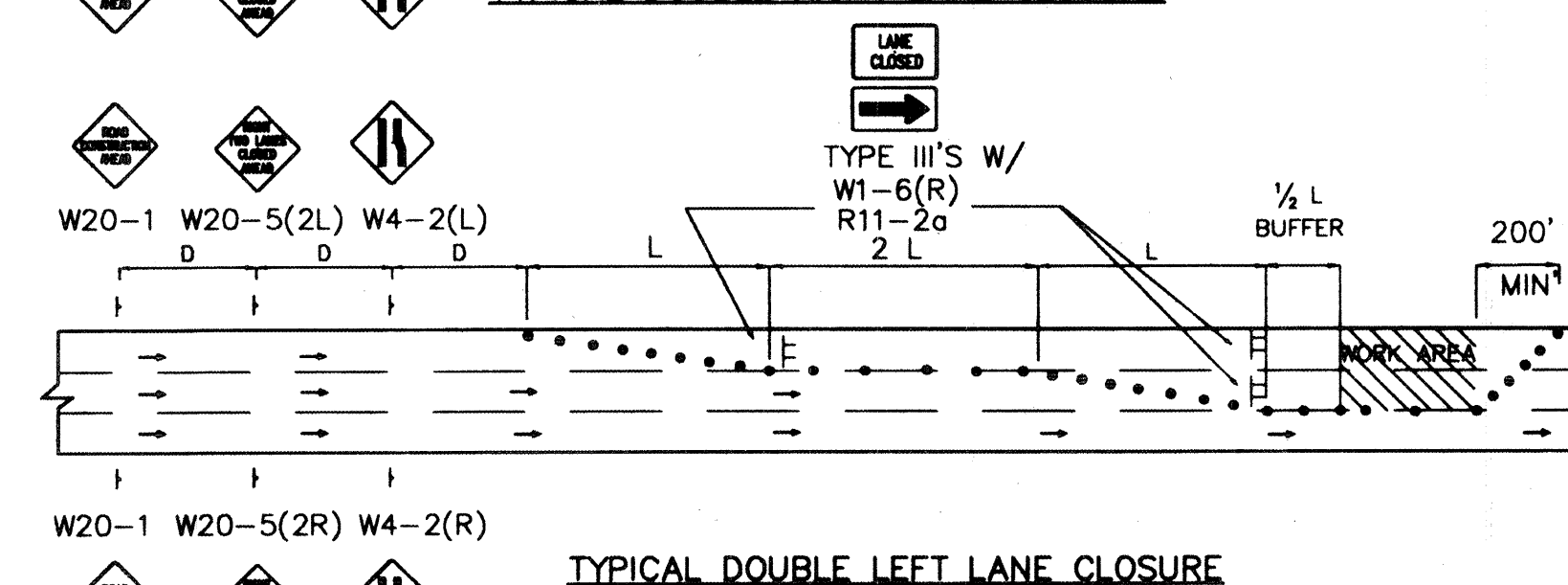
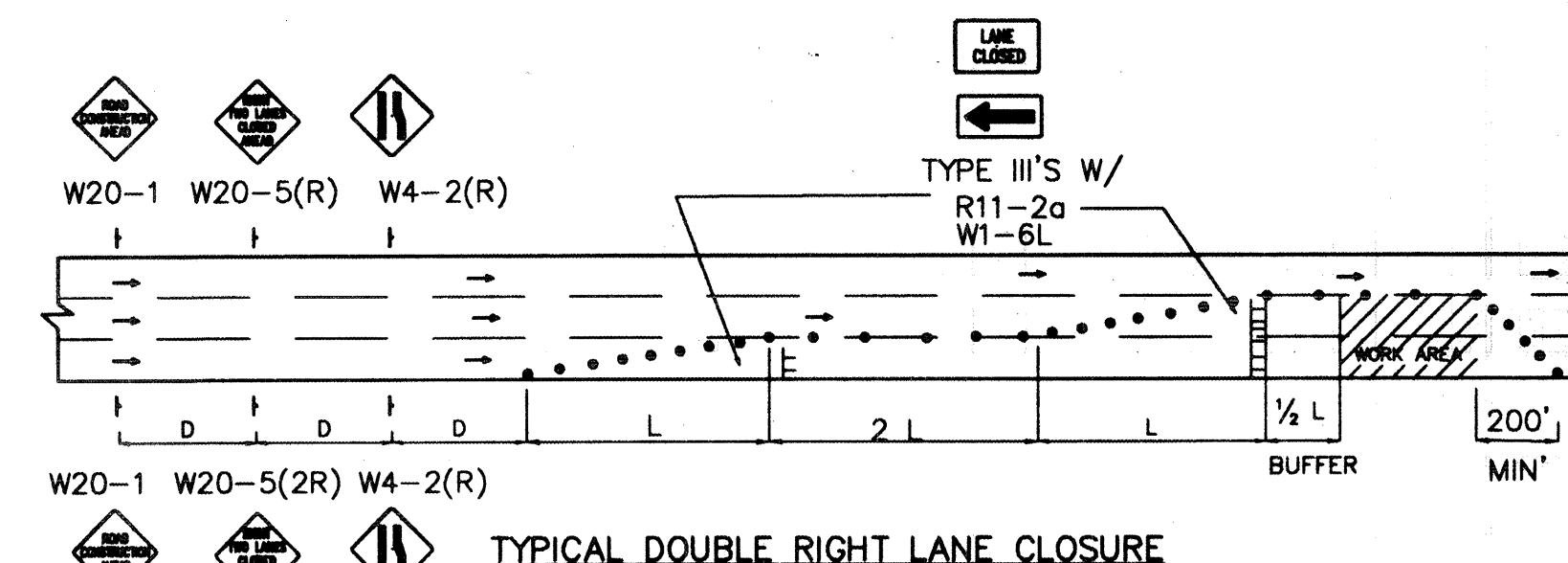
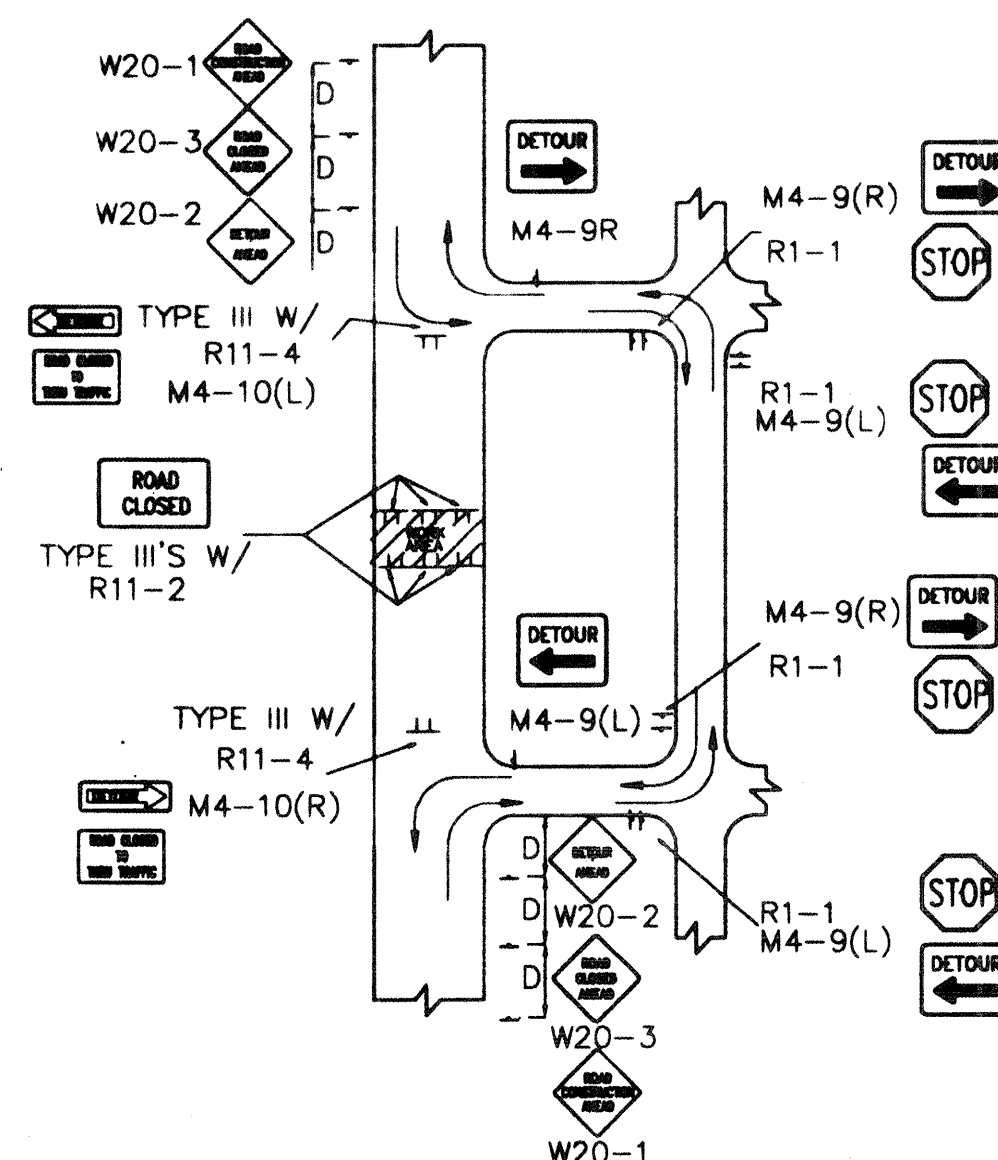
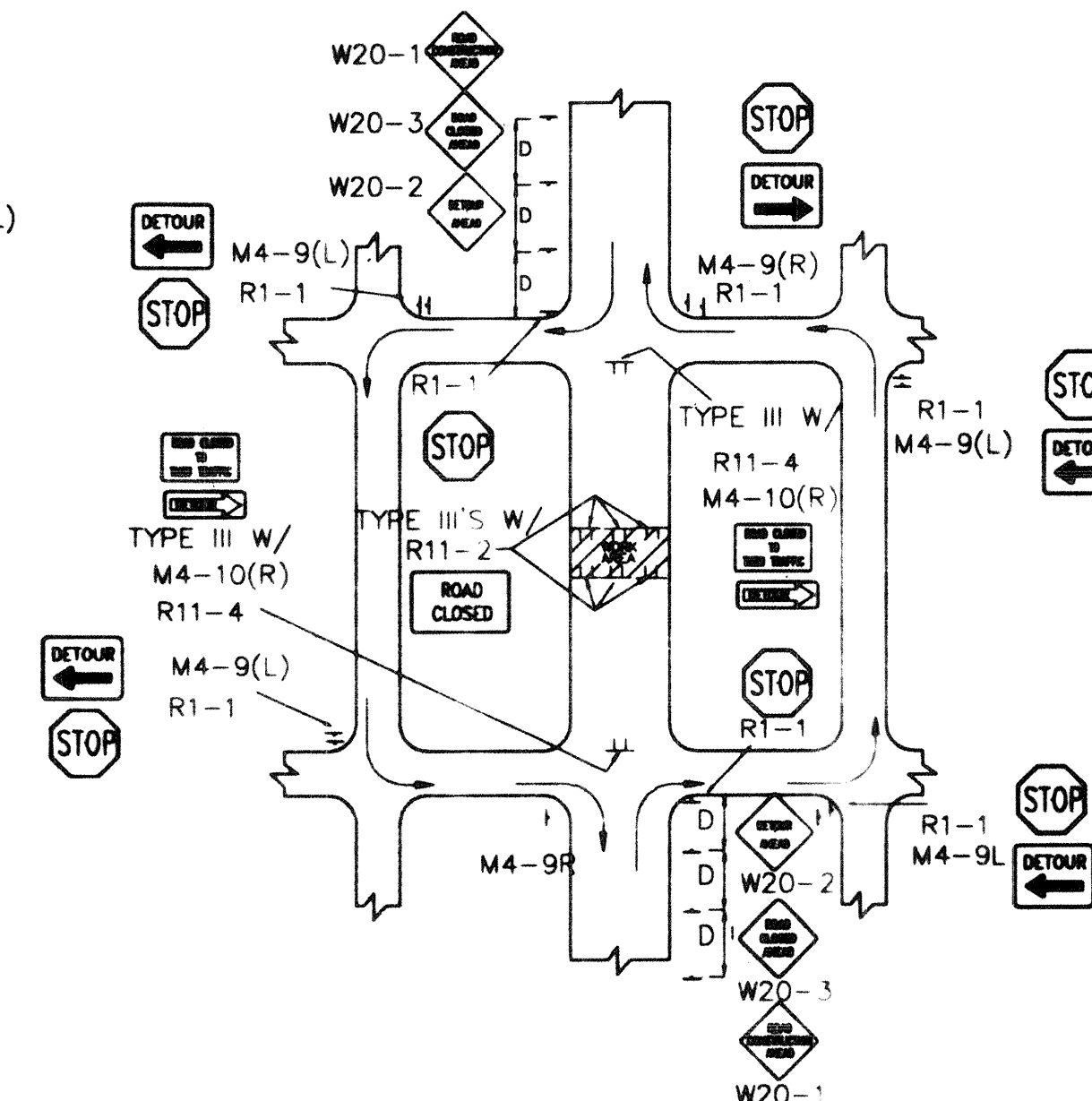
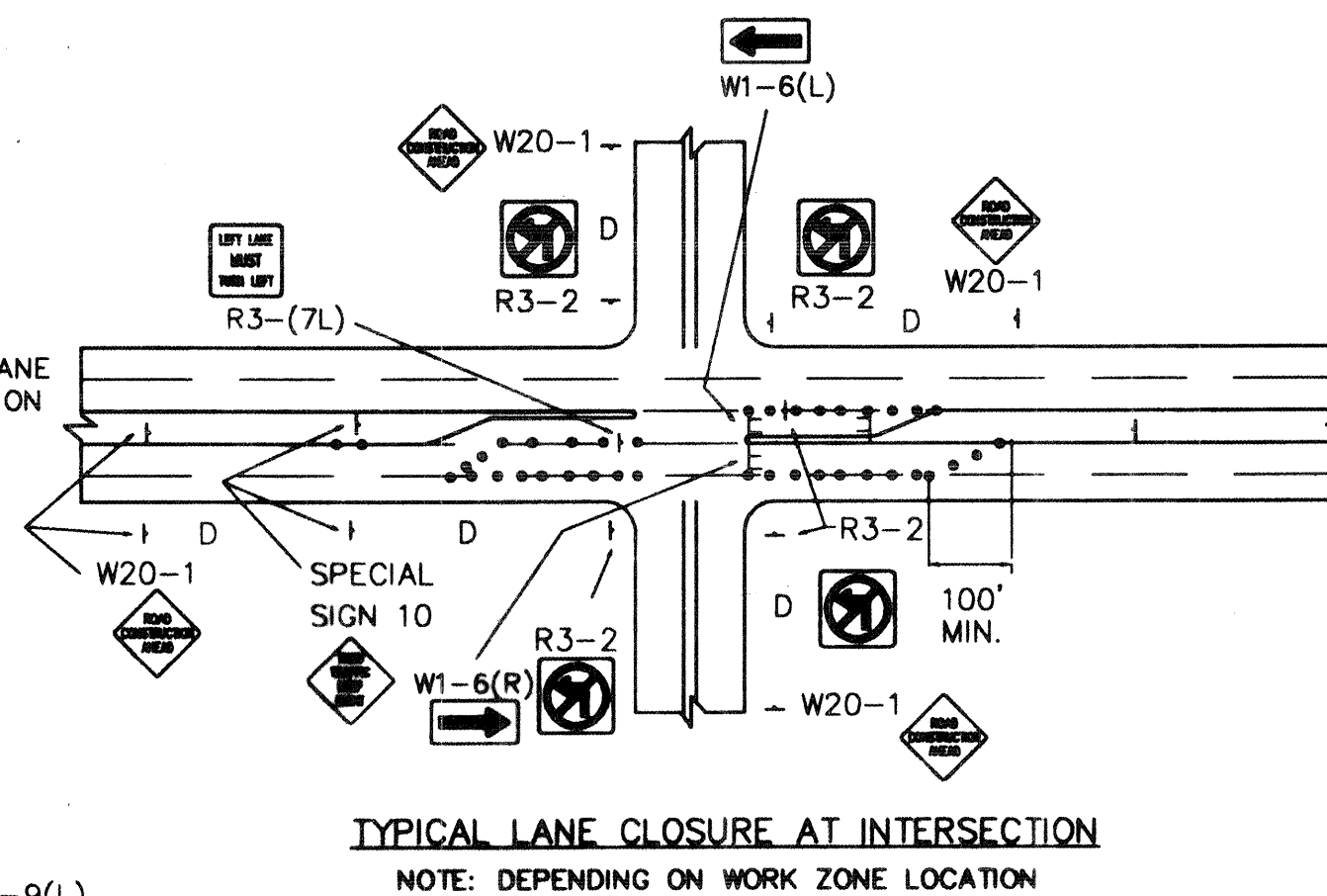
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE
WORK	DATE	BY	DATE	BY	DATE	BY	DATE
DESIGNED BY	DATE	REVISIONS	DATE	REVISIONS	DATE	REVISIONS	DATE
APPROVED BY	DATE	DESIGN	DATE	DESIGN	DATE	DESIGN	DATE
CHECKED BY	DATE	CADD - A.F.V.	DATE	CADD - A.F.V.	DATE	CADD - A.F.V.	DATE
RECORDED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
MICRO-FILM INFORMATION	DATE	NO.	DATE	NO.	DATE	NO.	DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY					
PROJECT NO. 4606.91		MAP NO. F-19		SHEET OF 1 2	



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



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
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY					
PROJECT NO. 4606.91		MAP NO. F-19		SHEET OF 2 2	

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	DATE					NO.	DATE				
STANDARD	DATE										
INSPECTOR	DATE										
FIELD	DATE										
REVISION	DATE										
CORRECTION	DATE										
RECORDED BY	DATE										
NO.											

REMARKS
DESIGN
NO. DATE
BY
REVISIONS
NO. DATE
BY
DESIGNED BY RICARDO ROYAL P.E. DATE NOV. 1991
DRAWN BY C.A.D.D./WLB/A.F.V. DATE NOV. 1991
CHECKED BY DATE

ENGINEER'S SEAL
Ricardo Roybal
Professional Engineer
No. 10000
State of New Mexico