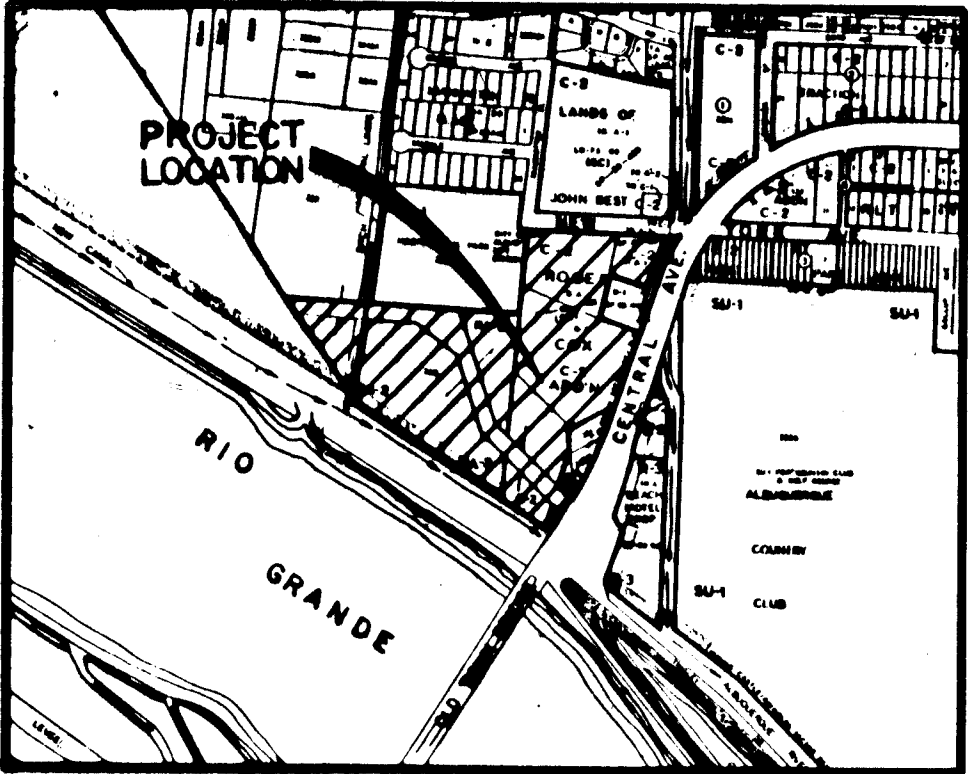


CONSTRUCTION PLANS
FOR
THE ALBUQUERQUE
BIOLOGICAL PARK (PHASE 1)
ALBUQUERQUE, NEW MEXICO
AS BUILTS

INDEX	
SHEET NUMBER	DESCRIPTION
1	TITLE SHEET
2	PLAT
3	CONTROL MATRIX
4	ROUGH GRADING AND CURB PLAN
5	UTILITY PLAN
6-8	UTILITY PLAN AND PROFILE
9	TRAFFIC CONTROL PLAN

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
Frank B. Smith
DATE 6-22-94

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26-4379-9 06/94



VICINITY MAP
NOT TO SCALE
8-12

NOTICE TO CONTRACTORS

- 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, w/ CURRENT UPDATES
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE 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.
- 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 ENGINEER. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS 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 THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☒ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☒ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- ☒ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☒ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- ☒ THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

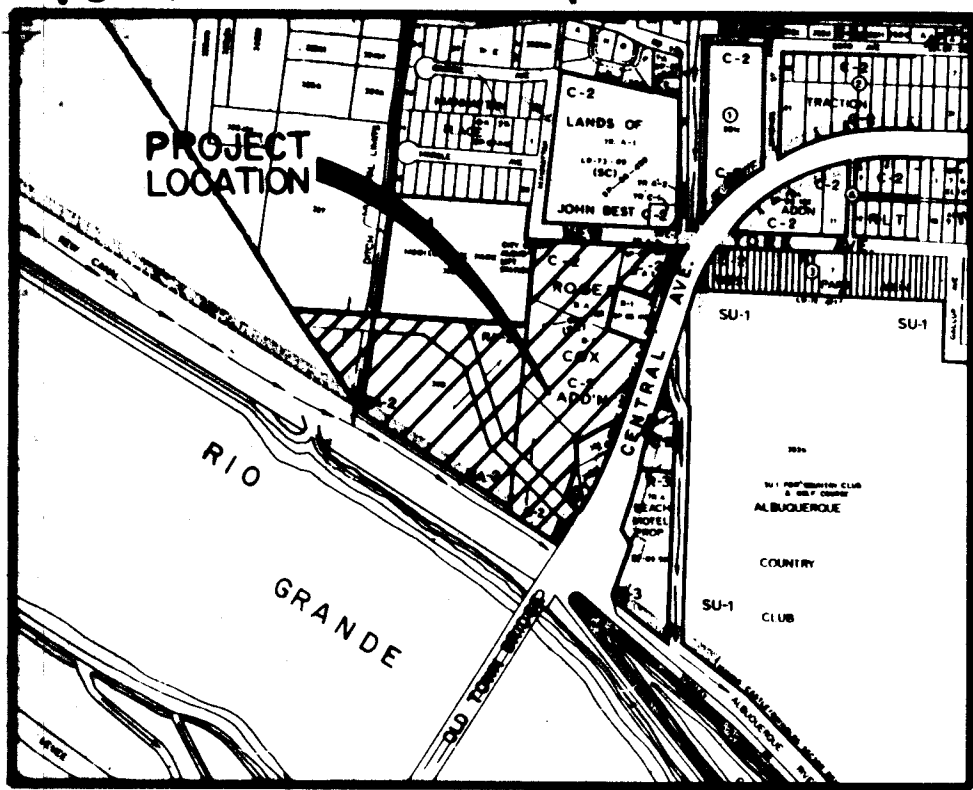
SCANNED BY LASON

REV	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
APPROVAL OF REVISIONS							

SCANNED BY LASON 02.20

<i>Daniel Bohannon</i> 7/15/93	 BOHANNAN HUSTON INC. ALBUQUERQUE, NEW MEXICO ENGINEERS PLANNERS PHOTOGRAMMETRISTS	APPROVED FOR CONSTRUCTION <i>Robert R. Smith</i> C.E.
	PROJECT NUMBER 4379.90	SHEET 1 OF 9

93061007370014



LOCATION MAP
ZONE ATLAS INDEX MAP No. J-12
NOT TO SCALE

NOTES

1. DRB No. 93-2/3
2. Basis of bearings New Mexico State Plane Grid Bearings (Central Zone).
3. Distances are ground distances.
4. This plat shows existing easements.
5. Date of survey: Autumn 1992.
6. Total number of tracts created: two tracts.
7. Gross subdivision acreage: 17.9051 acres.
8. This tract is located within Section 13, T10N, R2E, N.M.P.M.
9. 912 square feet of public street right-of-way dedicated with the filing of this plat.

DISCLOSURE STATEMENT

The purpose of this plat is to combine smaller tracts of land, dedicate public street right-of-way, and grant easements.

PUBLIC UTILITY EASEMENTS

PUBLIC UTILITY EASEMENTS shown on this plat are ten (10) feet wide and are for the common joint use of:

- A. The Public Service Company of New Mexico for the installation, maintenance, and service of overhead and underground electrical lines, transformers, and other equipment, fixtures, structures and related facilities reasonably necessary to provide electrical service.
- B. The Gas Company of New Mexico for installation, maintenance, and service of natural gas lines, valves and other equipment and facilities reasonably necessary to provide natural gas.
- C. U.S. West for the installation, maintenance, and service of all buried and aerial communication lines and other related equipment and facilities reasonably necessary to provide communication services, including but not limited to above ground pedestals and closures.
- D. Jones Interconnect for the installation, maintenance, and service of such lines, cable, and other related equipment and facilities reasonably necessary to provide Cable TV service.

Included is the right to build, rebuild, construct, reconstruct, locate, relocate, change, remove, modify, renew, operate, and maintain facilities for the purposes described above, together with free access to, from, and over said easements, including sufficient working area space for electric transformers, with the right and privilege to trim and remove trees, shrubs or bushes which interfere with the purposes set forth herein. No building, sign, pool (above ground or subsurface), hot tub, concrete or wood deck, or other structure shall be erected or constructed on said easements, nor shall any well be drilled or operated thereon. Property owners shall be solely responsible for correcting any violations of National Electric Safety Code caused by construction of pools, decking, or any structures adjacent to or near easements shown on this plat.

DESCRIPTION

A certain tract of land situated within Section 13, T10N, R2E, N.M.P.M., City of Albuquerque, Bernalillo County, New Mexico. Said tract being TRACT A-1 of the PLAT OF TRACTS A-1 AND A-2, ROGER COX ADDITION, as the same is shown and designated on the plat thereof filed for record in the office of the County Clerk of Bernalillo County, New Mexico on December 30, 1988 in Volume C29, folio 44, together with (1) TRACTS B-A and B-B of the ROGER COX ADDITION, as the same is shown and designated on the plat thereof filed for record in the office of the County Clerk of Bernalillo County, New Mexico on April 18, 1988 in Volume C30, folio 51; (2) TRACT 329-B1 as the same is shown and designated on Middle Rio Grande Conservancy District Map 38; (3) PARCEL 1 and PARCEL 2 as the same is described in a JUDGEMENT between the City of Albuquerque, Petitioner, and Jesse R. French, Respondent, filed in the office of the District Court of Bernalillo County, New Mexico on January 3, 1979, and filed in the office of the County Clerk of Bernalillo County, New Mexico on document no. 79-18583, on March 14, 1979, in Misc. Book 676, page 36. All of the above being more particularly described by New Mexico State Plane Grid Bearings and ground distances as follows:

BEGINNING at a PK nail with a survey washer stamped "LS 6446" at the northeast corner of said TRACT A-1, whence the City of Albuquerque survey monument "13-J12", an aluminum cap having New Mexico State Plane Grid Coordinates for the Central Zone, X=372,270.97, Y=1,489,903.68, bears N00°14'17"E a distance of 86.59 feet, and from said point of beginning running along the easterly boundary line of said TRACT A-1 and the westerly right-of-way line of the Alameda Drain, S21°36'18"W a distance of 14.32 feet to a 60d nail; thence, at the southeasterly corner of said TRACT A-1 and the northeasterly corner of LOT B-1 of the ROGER COX ADDITION, as the same is shown and designated on the plat filed in the office of the County Clerk of Bernalillo County, New Mexico on October 3, 1985 in Volume C29, folio 99; thence running along the southerly boundary line of said TRACT A-1, N67°43'06"W a distance of 153.44 feet to a 1/2" rebar at the northeasterly corner of said LOT B-1, thence running along the westerly boundary line of said LOT B-1, S14°52'44"W a distance of 171.58 feet to a 1/2" rebar at the southeasterly corner of said LOT B-1; thence running along the southerly boundary line of said LOT B-1, S63°49'23"E a distance of 168.27 feet to a 60d nail on the westerly right-of-way line of Central Avenue, and the southeasterly corner of said LOT B-1; thence running along the westerly right-of-way line of Central Avenue and the easterly boundary line of said LOT B-1, S22°29'17"W a distance of 284.47 feet to a 3/4" pipe at the southeasterly corner of said LOT B-B and the northeasterly corner of TRACT 361, as the same is shown and designated on Middle Rio Grande Conservancy District Map 38; thence running along the southerly boundary line of said LOT B-B and the northeasterly boundary line of said TRACT 361, S63°55'17"W a distance of 197.12 feet to a wood fence post at the most southerly corner of said LOT B-B and the northeasterly corner of said TRACT 329-B1; thence running along the easterly boundary line of said TRACT 329-B1, S07°59'01"W a distance of 88.56 feet to a 3/4" pipe; thence, S22°40'29"W a distance of 88.30 feet to a 5/8" rebar with a red plastic survey cap stamped "LS 5978" at a point on the northeasterly boundary line of said PARCEL 2; thence running along the said northeasterly boundary line of PARCEL 2, S47°34'45"E a distance of 66.12 feet to a 5/8" rebar as described above; thence, S05°24'01"E a distance of 23.88 feet to a 5/8" rebar, as described above, at a point on a curve on the said westerly right-of-way line of Central Avenue; thence running along said westerly right-of-way line, 106.53 feet along the arc of a curve to the right having a radius of 1922.84 feet and a chord bearing S35°06'25"W a distance of 106.52 feet to a 5/8" rebar, as described above, at a point of tangency; thence, S36°41'39"W a distance of 58.31 feet to a 5/8" rebar, as described above, at the most southerly corner of said PARCEL 1 and the tract herein described; thence running along the southerly boundary line of said PARCEL 1, N55°31'23"W a distance of 920.88 feet to a 5/8" rebar as described above; thence, N20°18'13"W a distance of 311.90 feet to a 5/8" rebar as described above; thence, N31°38'03"W a distance of 146.01 feet to a 5/8" rebar, as described above, at the northeasterly corner of said PARCEL 1; thence running along the northerly boundary line of said PARCEL 1, S63°33'21"E a distance of 869.16 feet to a 1/2" pipe at the northeasterly corner of said PARCEL 1, at a point on the westerly boundary line of said LOT B-B; thence running along the said westerly boundary line of LOT B-B and LOT B-A, N08°32'15"E a distance of 259.81 feet to a 1/2" rebar at the southwest corner of the City of Albuquerque Lift Station No. 5; thence running along the southerly boundary line of said Lift Station, S85°41'19"E a distance of 51.69 feet to a 1/2" rebar; thence running along the westerly boundary line of said Lift Station, N16°15'24"E a distance of 32.05 feet; thence, N04°19'24"E a distance of 13.65 feet to a 1/2" rebar on the southerly right-of-way line of New York Avenue N.W.; thence running along said southerly right-of-way line, S85°42'15"E a distance of 291.39 feet to a yellow plastic survey cap stamped "LS 6446"; thence, S85°44'43"E a distance of 26.02 feet to a PK nail with a survey washer stamped "LS 6446"; thence, S16°36'32"W a distance of 1.26 feet to a PK nail with a survey washer stamped "LS 6446"; thence, S83°02'42"E a distance of 79.57 feet to a PK nail with a survey washer stamped "LS 6446"; thence, 68.01 feet along the arc of a curve to the right having a radius of 221.00 feet and a chord bearing S74°09'48"E a distance of 67.74 feet to the point and place of beginning.

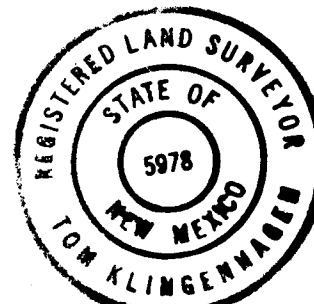
This tract contains 17.9051 acres, more or less.

SURVEYOR'S CERTIFICATION

I, Thomas G. Klingenhagen, a registered Professional New Mexico Surveyor, certify that this plat was prepared by me or under my supervision, meets all requirements of record, meets the minimum requirements for annotation and surveys contained in the Albuquerque Subdivision Ordinance, and is true and accurate to the best of my knowledge and belief.

Thomas G. Klingenhagen
New Mexico Surveyor 5978

Date: 6-10-93



PLAT OF
TRACTS A & B
ALBUQUERQUE
BIOLOGICAL PARK
ALBUQUERQUE, NEW MEXICO
JUNE, 1993

FREE CONSENT AND DEDICATION

The foregoing Replat of that certain tract of land situated within Section 13, T10N, R2E, N.M.P.M., City of Albuquerque, Bernalillo County, New Mexico, being TRACT A-1 of the PLAT OF TRACTS A-1 AND A-2, ROGER COX ADDITION, together with TRACTS B-A and B-B of the ROGER COX ADDITION, together with TRACT 329-B1 as the same is shown and designated on Middle Rio Grande Conservancy District Map 38; together with PARCEL 1 and PARCEL 2 as the same is described in a JUDGEMENT filed in the office of the District Court of Bernalillo County, New Mexico on January 3, 1979, and filed in the office of the County Clerk of Bernalillo County, New Mexico on document no. 79-18583, on March 14, 1979, in Misc. Book 676, page 36, and now hereto shown and comprising ALBUQUERQUE BIOLOGICAL PARK, is with the free, consent and in accordance with the desires of the undersigned owner and/or proprietor thereof, and said owner and/or proprietor hereby dedicates 912 square feet of public street right-of-way, and do also hereby grant all easements shown on this plat. Electrical Power and Communication easements are reserved for buried distribution lines, conduits, and pipes for underground utilities, and other related equipment where shown or indicated, and including the right of ingress and egress for construction and maintenance, and the right to trim interfering trees and shrubs.

CITY OF ALBUQUERQUE, NEW MEXICO, A MUNICIPAL CORPORATION

Arthur A. Blumenfeld
Chief Administrative Officer
City of Albuquerque

State of New Mexico
County of Bernalillo

The foregoing instrument was acknowledged before me this 14th day of June, 1993, by Arthur A. Blumenfeld, Chief Administrative Officer, in the presence of _____, and on behalf of the City of Albuquerque, a Municipal Corporation.

My commission expires: _____

Notary Public

4-2-94

APPROVALS

PLAT NUMBER _____

PLANNING DIRECTOR _____ DATE _____

CITY ENGINEER _____ DATE _____

A.M.F.C.A. _____ DATE 6-29-93

TRAFFIC ENGINEER _____ DATE 06/19/93

CITY SURVEYOR _____ DATE _____

PROPERTY MANAGEMENT _____ DATE 6-29-93

UTILITY DEVELOPMENT DEPARTMENT _____ DATE 6/29/93

PARKS AND RECREATION DEPARTMENT _____ DATE _____

PUBLIC SERVICE COMPANY OF NEW MEXICO _____ DATE _____

U.S. WEST COMMUNICATIONS _____ DATE _____

GAS COMPANY OF NEW MEXICO _____ DATE _____

THIS IS TO CERTIFY THAT TAXES ARE CURRENT AND PAID

ON UPC# _____

PROPERTY OWNER OF RECORD: _____

BERNALILLO COUNTY TREASURER'S OFFICE _____ DATE _____

Behnen-Huston, Inc.
7500 Jefferson Street, N.E.
Albuquerque, New Mexico 87109

JOB NO. 9130200



SHEET 1 OF 2 SHEETS

SURV. (59130000) 000001-00-00

PLAT OF
TRACTS A & B
ALBUQUERQUE
BIOLOGICAL PARK
ALBUQUERQUE, NEW MEXICO
JUNE, 1993

ACS Aluminum Cap stamped "13-J12, 1989"
Geographic Position (NAD 1927)
N.M. State Plane Coordinates (Central Zone)
X=372,270.97 Y=1,489,903.68
Ground-to-Grid Factor = 0.99968183
GOC = -00°14'44"
Elevation = 4952.783

NOTE: TRACT B HAS RECIPROCAL ACCESS EASEMENTS WITH TRACT A AS PER EPC CASE Z-93-70.

LOT 1, BLOCK 1
NEWBRIDGE ADDITION
FILED: NOVEMBER 17, 1985
(81-81)
ALSO KNOWN AS TRACT 332B

PARCEL 2
JUDGEMENT FILED: MARCH 14, 1979
(MISC. BK. 676, PAGE 36)
DOCUMENT NO. 79-18583

CURVE DATA

NUMBER	ARC	RADIUS	DELTA	CHORD	CHORD BEARING	TANGENT
C1	68.01	1737.22	173°37'22"	67.74	574°09'48"E	34.27
C2	106.53	1922.84	31°10'27"	106.52	535°06'25"W	53.28

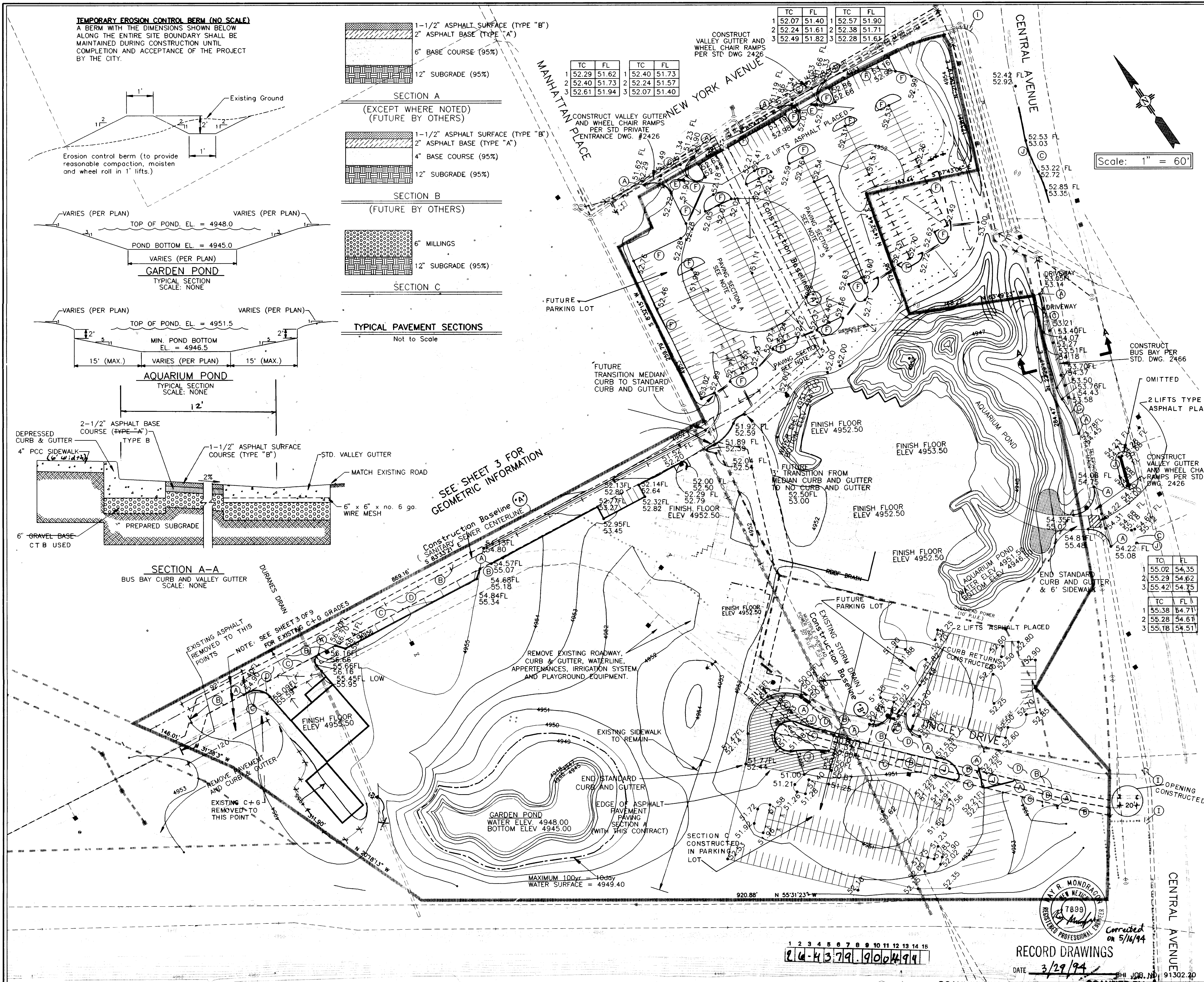
ACS Aluminum Cap stamped "14-J12, 1989"
Geographic Position (NAD 1927)
N.M. State Plane Coordinates (Central Zone)
X=371,719.02 Y=1,488,484.55
Ground-to-Grid Factor = 0.99968150
GOC = -00°14'47"
Elevation = 4962.832

SHEET 2 OF 2 SHEETS

JOB NO. 9130200



000130000 000001-00-00



GENERAL NOTES

- STANDARD AND MEDIAN CURB AND GUTTER SHALL BE CONSTRUCTED PER CITY STANDARD DRAWING 2415.
- VALLEY GUTTER SHALL BE CONSTRUCTED PER CITY STANDARD DRAWING 2420.
- SEE UTILITY PLAN AND PROFILE SHEETS FOR STORM DRAIN INSTALLATION NOTES.
- PAVEMENT SECTIONS IN THE NORTH PARKING LOT SHALL NOT BE CONSTRUCTED WITH THIS PROJECT. ROAD IMPROVEMENTS IN THE SERVICE ROAD FROM THE ENTRY COMPLEX TO THE CONSERVATORY SHALL NOT BE CONSTRUCTED WITH THIS PROJECT.
- TYPICAL PAVING SECTION A SHALL BE USED IN THE DRIVING AISLES WHERE INDICATED. ALL OTHER AREAS OF THE NORTH PARKING LOT SHALL USE SECTION B. (BY OTHERS)
- THE MILLINGS FOR PAVING SECTION C ARE STOCKPILED ON SITE FOR THE CONTRACTORS USE.
- THE BUS BAY SHALL BE CONSTRUCTED PER C.O.A. STD. DWG. 2466.
- WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED PER CITY STANDARD DWG. #2441 - CASE II.
- COORDINATE REMOVAL OF EXISTING IRRIGATION SYSTEM AND PLAYGROUND EQUIPMENT W/ THE CITY PARKS AND SERVICES DEPT CONTACT PETE TURPIN 875-8650.
- TREE REMOVAL WILL BE INCIDENTAL TO CLEARING AND GRUBBING.

LEGEND

- 50.05FL 50.72 PROPOSED SPOT W/ FLOW LINE ELEVATION TOP OF CURB ELEVATION
- 50.05 PROPOSED TOP OF ASPHALT SPOT ELEVATION
- EXISTING CONTOUR
- 4955 FINISH GRADE CONTOUR
- 4955 FUTURE CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED GRADE CHANGE ELEVATION
- PROPOSED GRADE HIGH POINT
- PROPOSED SD MANHOLE
- PROPOSED SD INLET
- EXISTING SD MANHOLE
- FUTURE PHASE LIMITS
- [DETAIL] TEMPORARY EROSION CONTROL BERM (SEE DETAIL THIS SHEET)
- TRACT BOUNDARY

KEYED NOTES

- (A) MATCH EXISTING CURB AND GUTTER
- (B) EXISTING CURB AND GUTTER TO REMAIN
- (C) REMOVE EXISTING CURB AND GUTTER
- (D) EXISTING ASPHALT TO REMAIN
- (E) FUTURE TRANSITION FROM STD CURB & GUTTER TO MEDIAN CURB & GUTTER
- (F) FUTURE MEDIAN CURB & GUTTER
- (G) CONSTRUCT STANDARD CURB AND GUTTER
- (H) FUTURE TRANSITION FROM STD CURB AND GUTTER TO MEDIAN CURB
- (I) EXISTING WHEEL CHAIR RAMP
- (J) CONSTRUCT MEDIAN CURB & GUTTER

AS BUILT INFORMATION

CONTRACTOR	CONTRACT NO.	DATE
BHI		7/15/93

ENGINEER'S SEAL

NO.	DATE	REMARKS	REVISIONS	DESIGN	DATE	BY
	6/93					
	6/93					
	6/93					

CITY OF ALBUQUERQUE

PUBLIC WORKS DEPARTMENT

ENGINEERING GROUP

ALBUQUERQUE BIOLOGICAL PARK

ROUGH GRADING & CURB PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	R.W. Kame	7-19-93	WATER	R.W. Kame	7-16-93
TRANSPORTATION	R.W. Kame	7-16-93	WASTE WATER	R.W. Kame	7-16-93
HYDROLOGY	R.W. Kame	7-16-93			

DRAWING NO.	4379.90	MAP NO.	J-12	SHEET	4 OF 9
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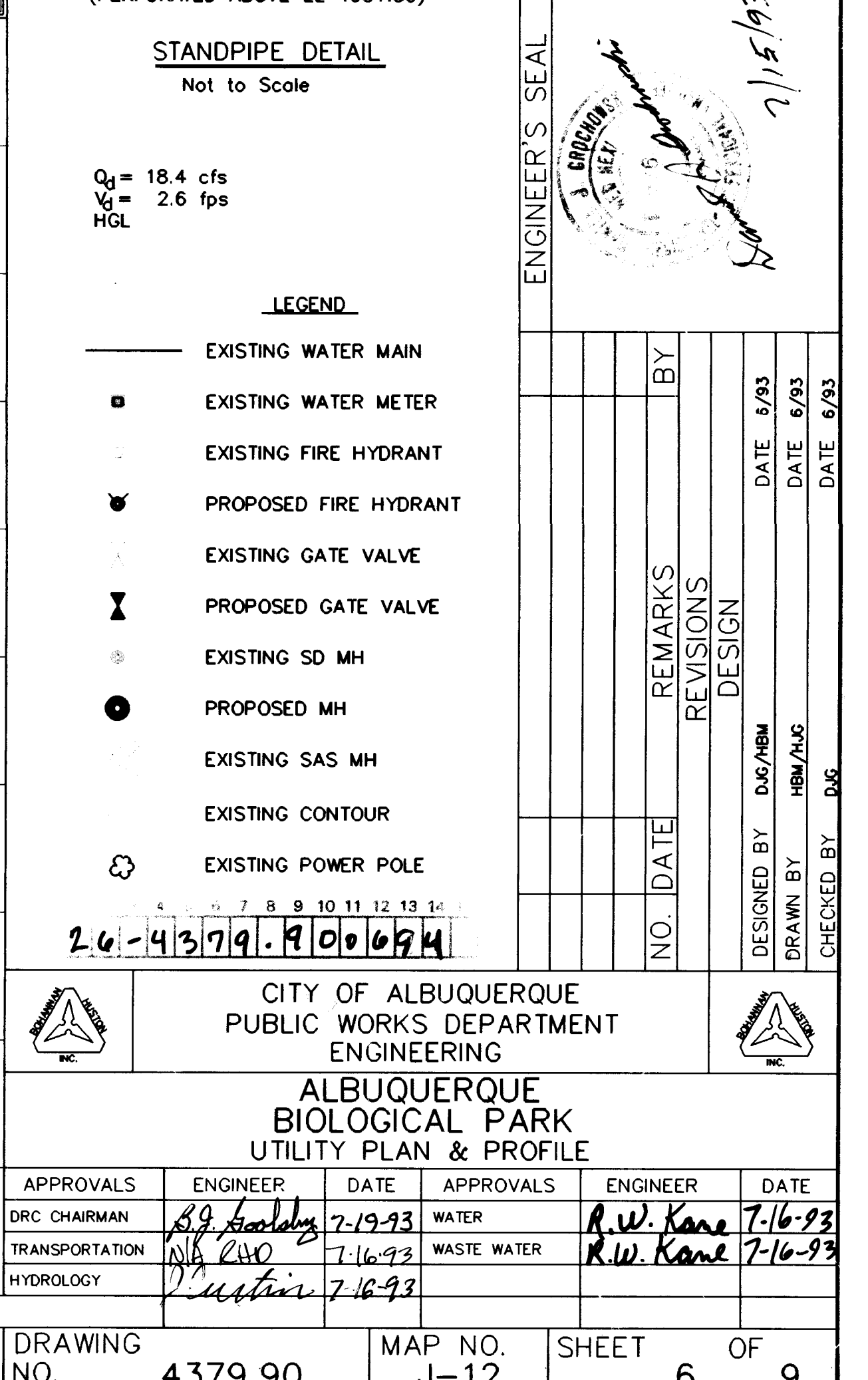
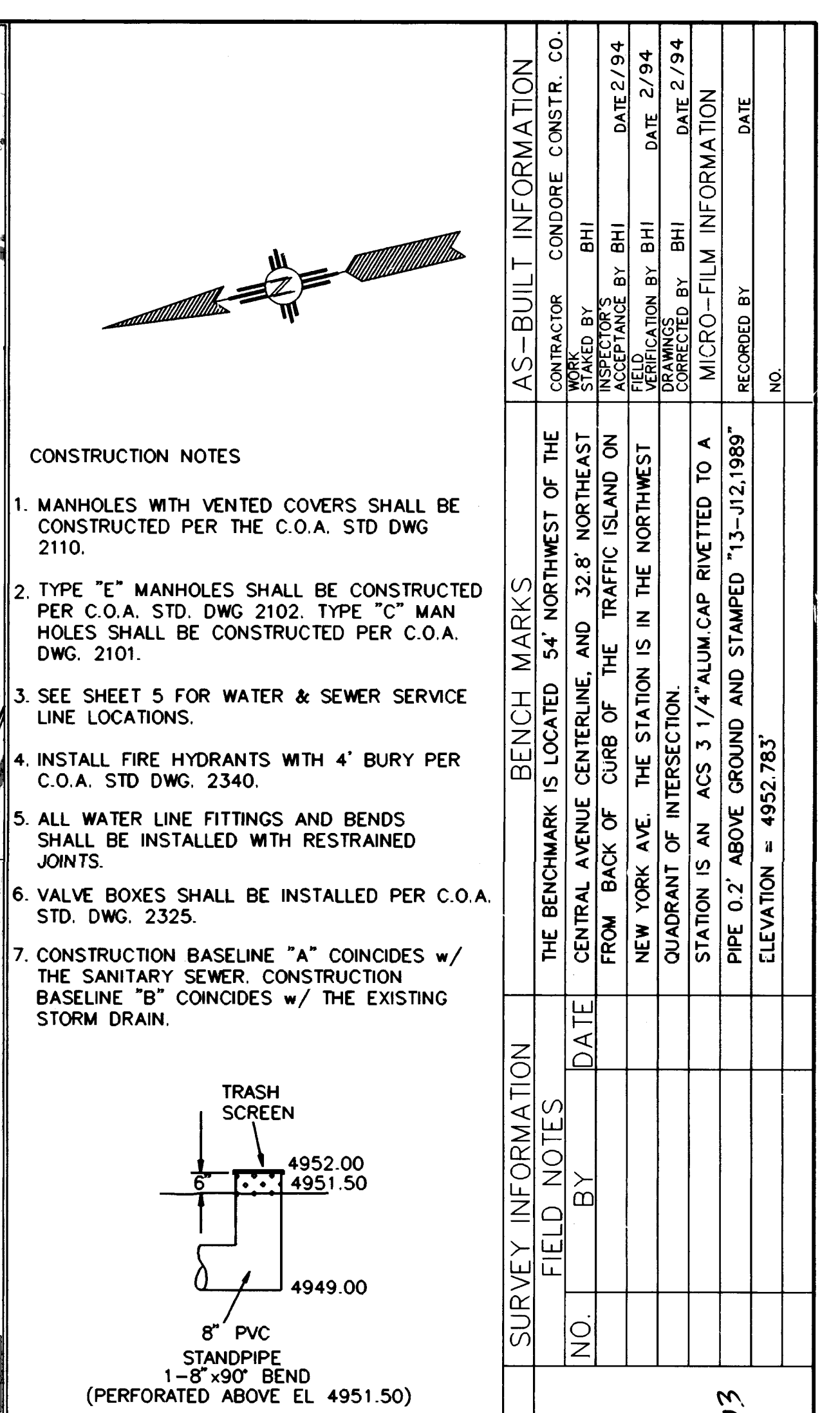
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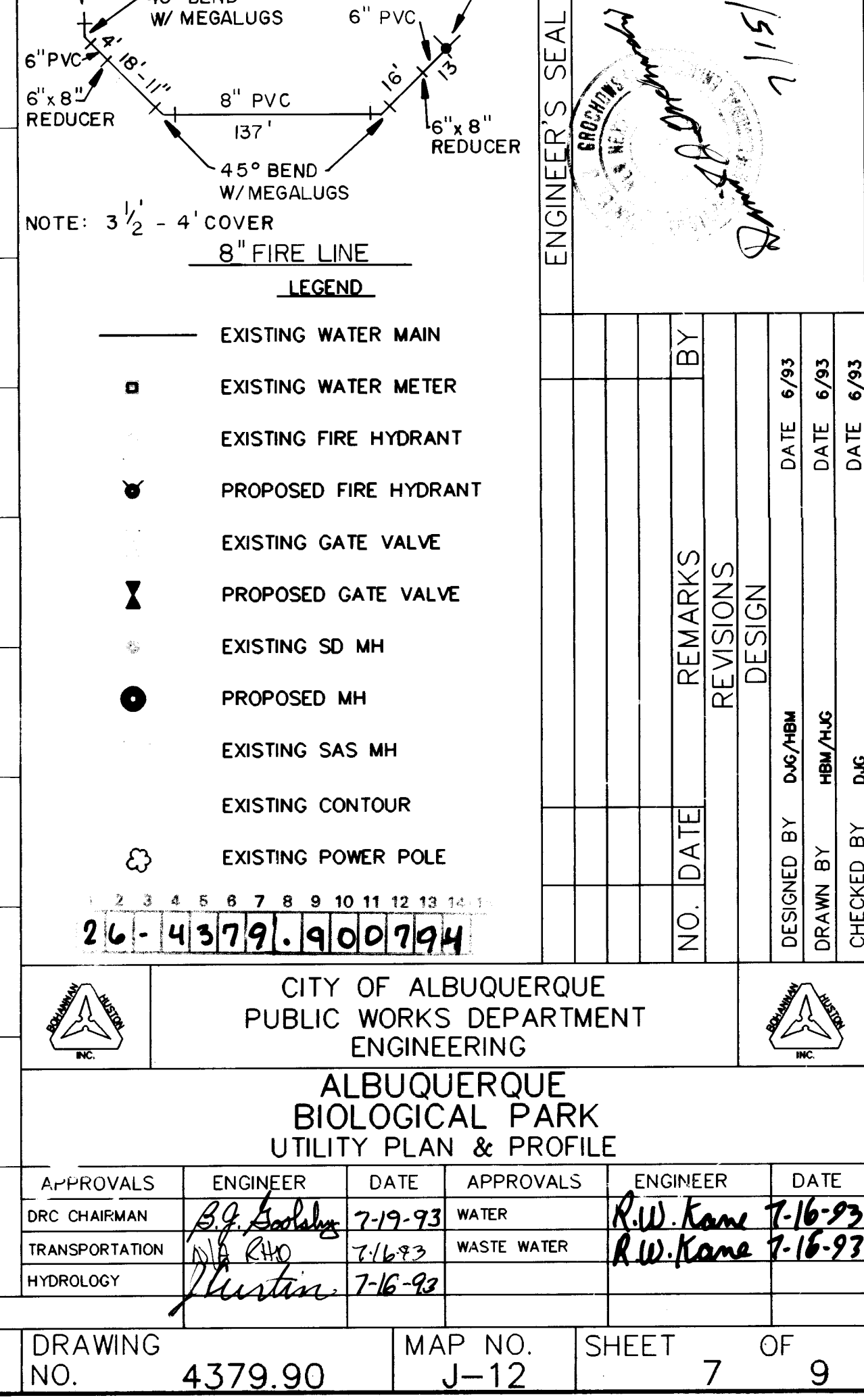
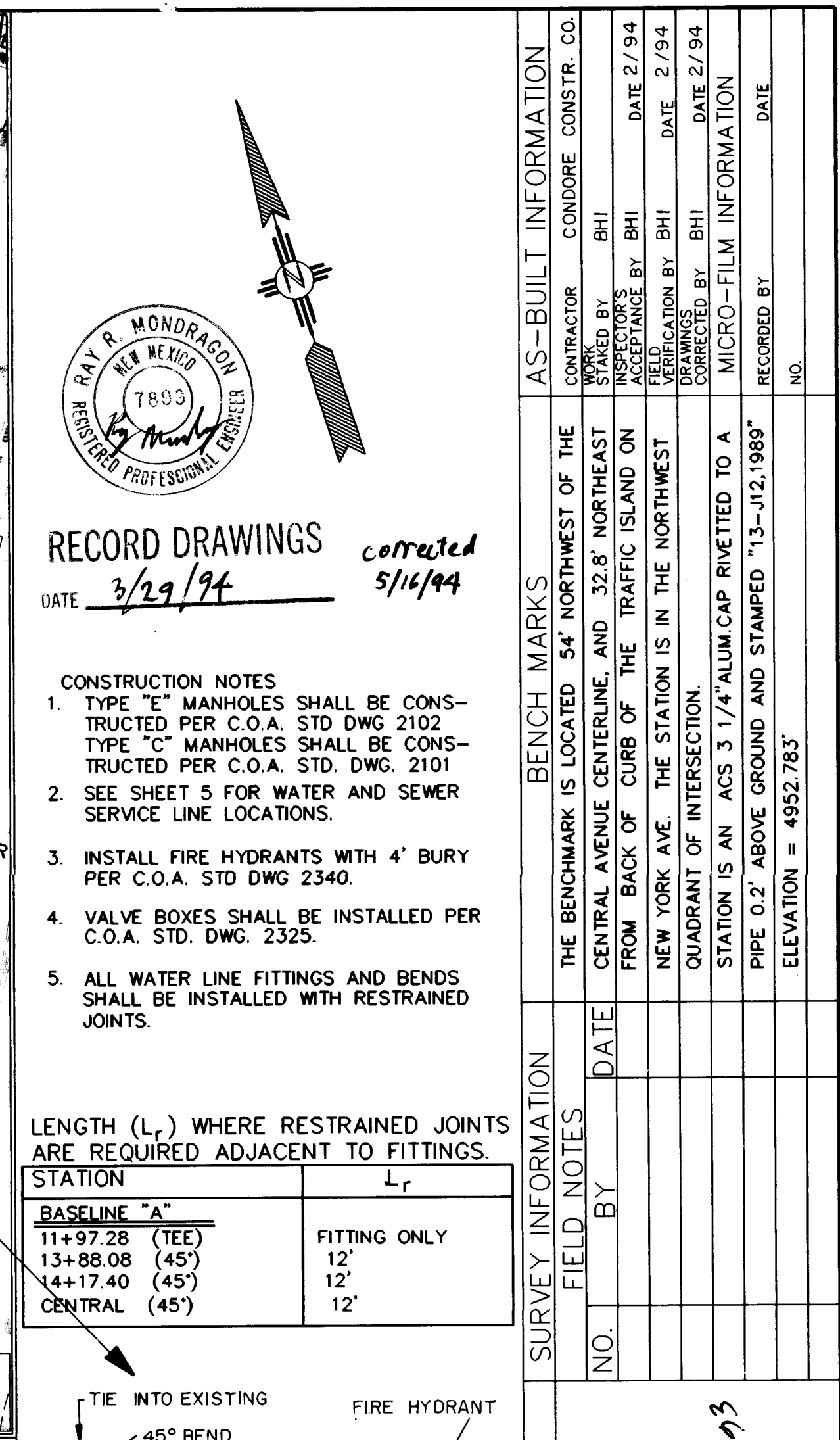
DATE 3/29/94

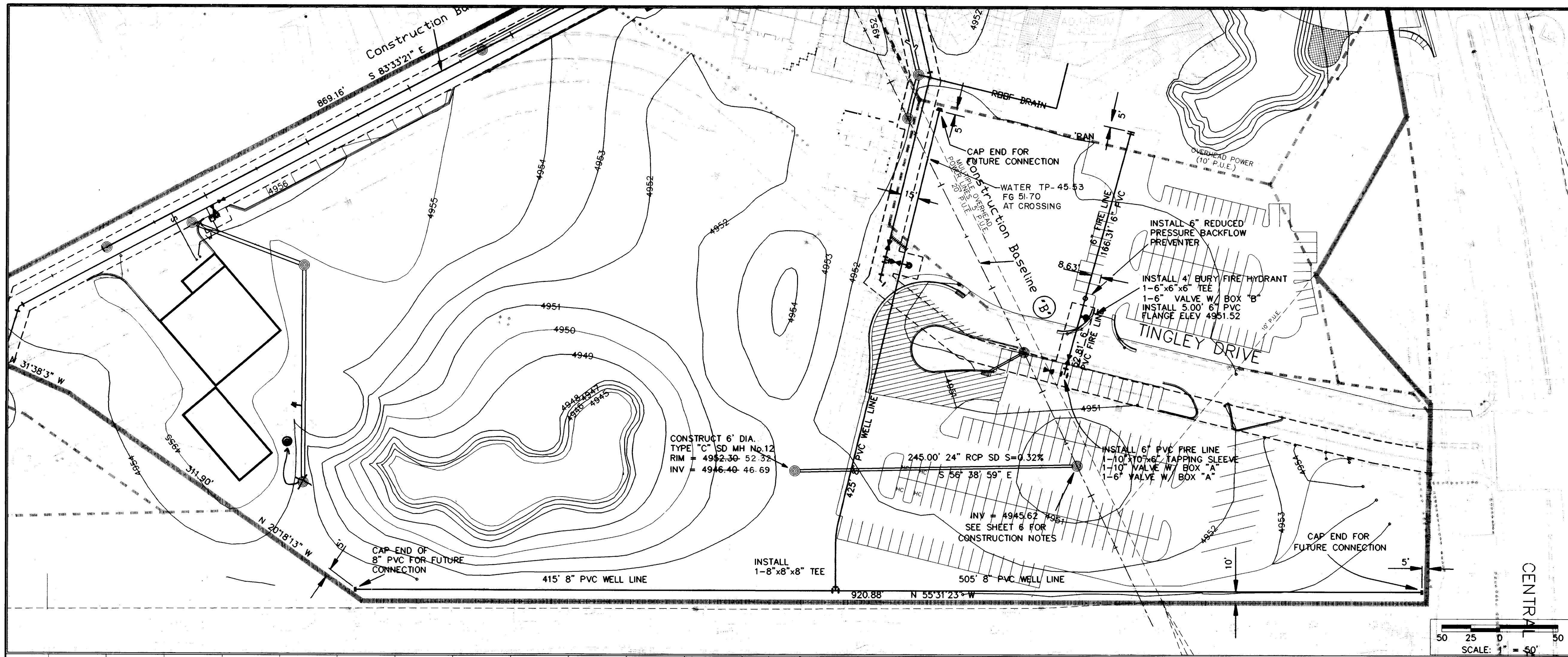
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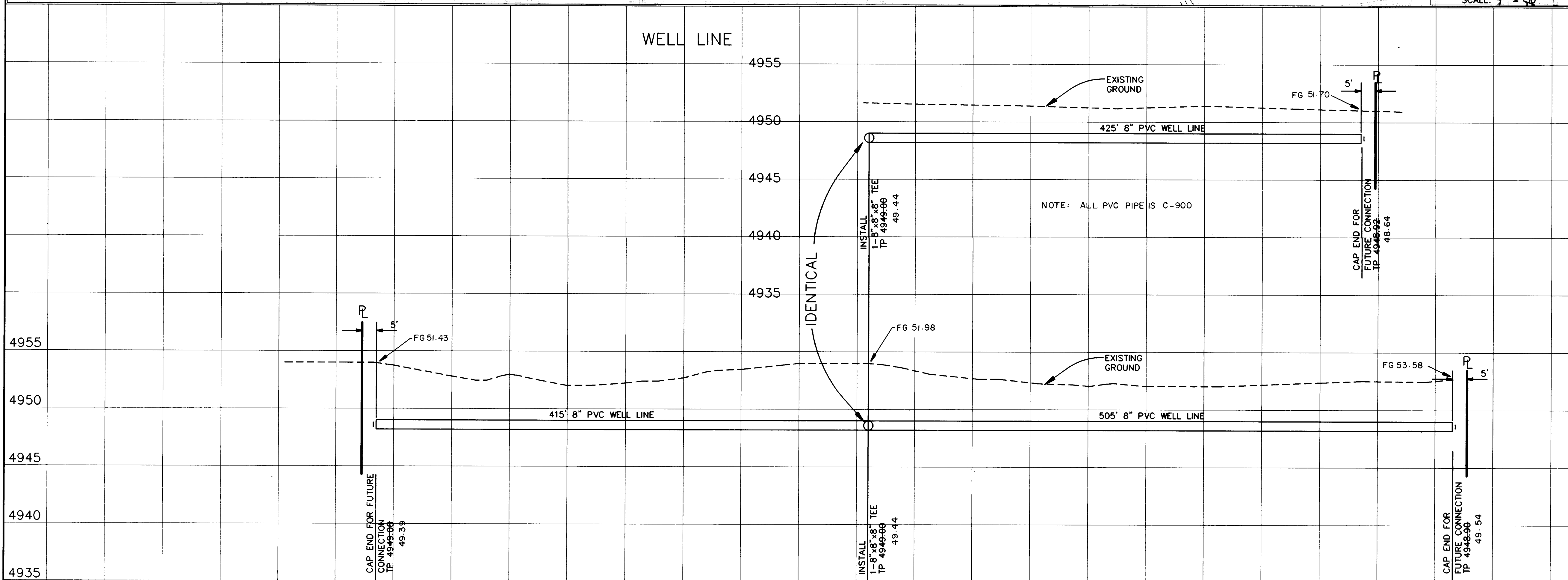


- CONSTRUCTION NOTES
1. TYPE "C" MANHOLES SHALL BE CONSTRUCTED PER C.O.A. STD. DWG. 2101.
 2. INSTALL FIRE HYDRANTS WITH 4' BURY PER C.O.A. STD. DWG. 2340.
 3. VALVE BOXES SHALL BE INSTALLED PER C.O.A. STD. DWG. 2325.
 4. ALL WATER LINE FITTINGS AND BENDS SHALL BE INSTALLED WITH RESTRAINED JOINTS. FOR THE TWO TEES SHOWN ON THIS SHEET THE RESTRAINED JOINTS ARE REQUIRED ONLY AT THE FITTINGS.



RECORD DRAWINGS
DATE 3/29/94

- LEGEND
- EXISTING WATER MAIN
 - EXISTING WATER METER
 - EXISTING FIRE HYDRANT
 - PROPOSED FIRE HYDRANT
 - EXISTING GATE VALVE
 - ⌵ PROPOSED GATE VALVE
 - EXISTING SD MH
 - PROPOSED MH
 - EXISTING SAS MH
 - EXISTING CONTOUR
 - ⊙ EXISTING POWER POLE



26-4379.90-89.4

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

ALBUQUERQUE
BIOLOGICAL PARK
UTILITY PLAN & PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B. J. Boudreau	7-19-93	WATER	R. W. Kane	7-16-93
TRANSPORTATION	N/A	7-16-93	WASTE WATER	R. W. Kane	7-16-93
HYDROLOGY	N/A	7-16-93			

DESIGNED BY DGC/MBM DATE 6/93
DRAWN BY HBM/MSG DATE 6/93
CHECKED BY DGC DATE 6/93

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

- 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.
- 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.
- 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.
- CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.
- 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.
- 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 GA-4 OF THE MUTCD, LATEST EDITION.
- 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.
- 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.
- 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.
- 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 GA-4.
- CONTRACTOR SHALL NOT BEGIN WORK BEFORE 8:30 A.M. OR END WORK AFTER 4:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.
- 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.
- 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.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.
- CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.
- 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 LETTERING ON BLUE REFLECTORIZED BACKGROUND WITH A 5/8" WHITE BORDER INSET 3/8". 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 AN ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH. WHITE LETTERING SHALL BE OPAQUE.
- 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 GA-4 OF THE MUTCD, LATEST EDITION.
- 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.
- ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

- 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.
- CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
 - STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
 - THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
 - SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.
- 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.

PROJECT CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

SEE TRAFFIC CONTROL PHASING PLAN FOR PROJECT SPECIFIC CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES.

BARRICADES

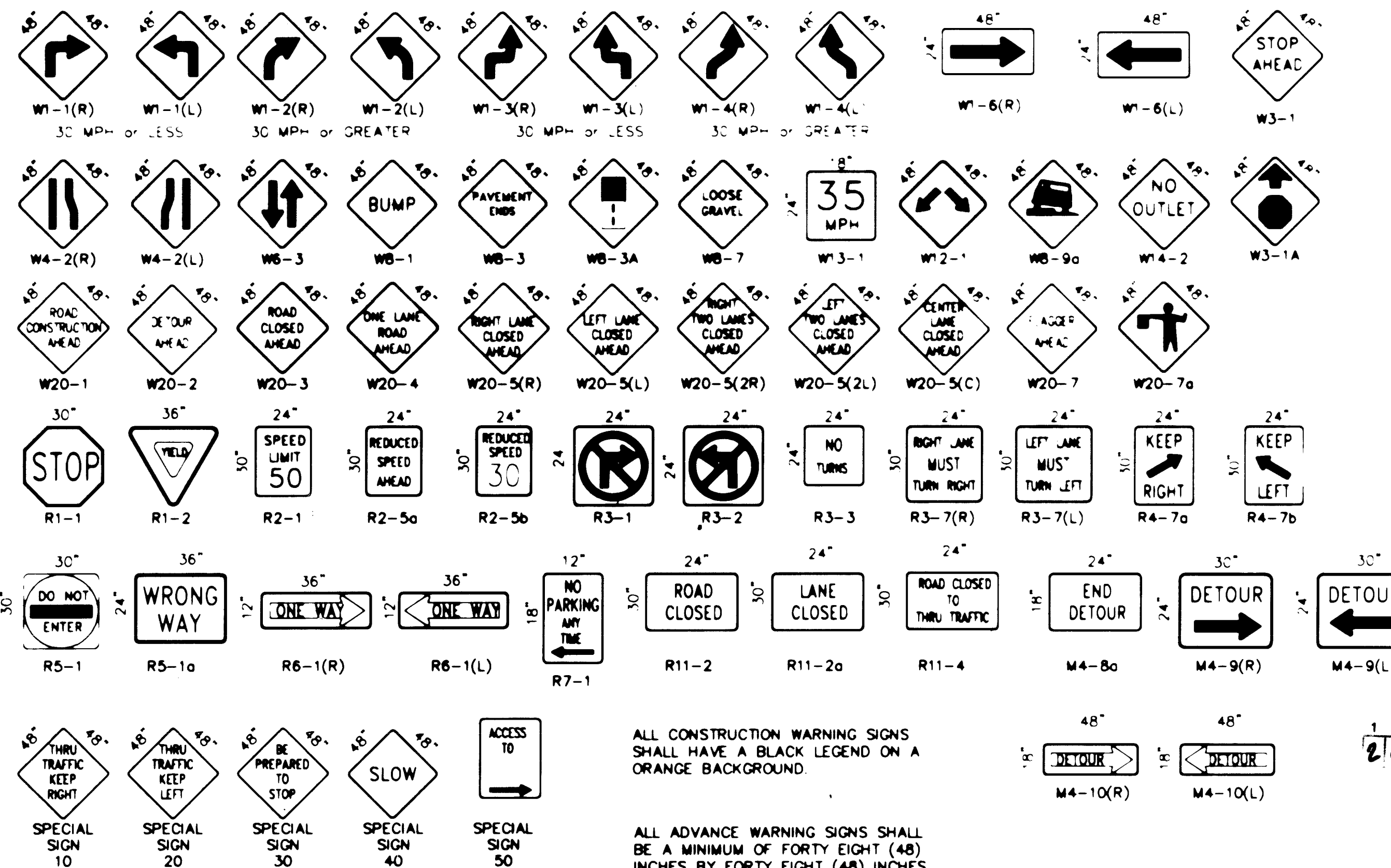
BARRICADES WITH STRIPES THAT BEGIN AT THE UPPER RIGHT SIDE AND SLOPE DOWNWARD TO THE LOWER LEFT SIDE ARE TO BE DESIGNATED AS "RIGHT" (R) BARRICADES. BARRICADES WITH STRIPES THAT BEGIN AT THE UPPER LEFT SIDE AND SLOPE DOWNWARD TO THE LOWER RIGHT SIDE ARE TO BE DESIGNATED AS "LEFT" (L) BARRICADES.

BARRICADE STRIPES SHALL SLOPE DOWNWARD IN THE DIRECTION TOWARD WHICH TRAFFIC MUST TURN IN DETOURING. WHERE BOTH RIGHT AND LEFT TURNS ARE PROVIDED FOR, THE CHEVRON STRIPING SHALL SLOPE DOWNWARD IN BOTH DIRECTIONS FROM THE CENTER OF THE BARRICADE.

VERTICAL PANELS

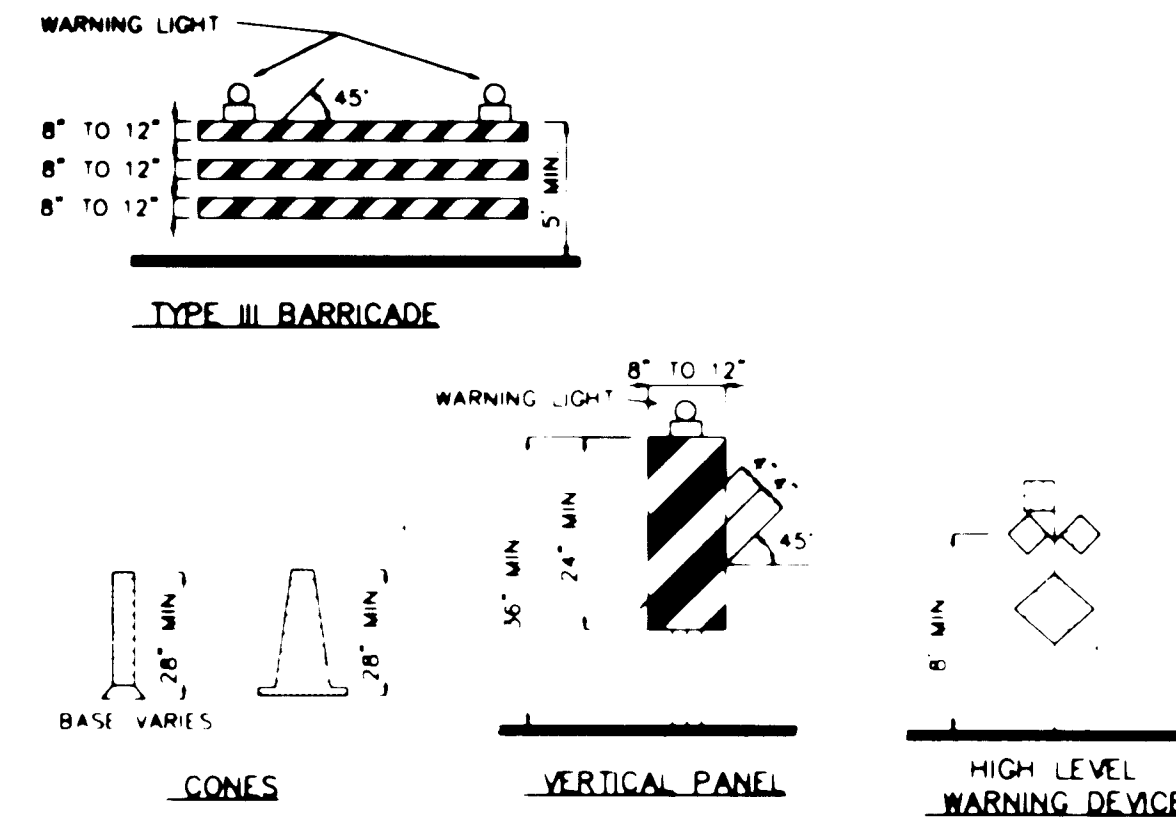
VERTICAL PANELS WITH STRIPES BEGINNING AT THE UPPER RIGHT SIDE AND SLOPING DOWN TO THE LEFT ARE DESIGNATED AS "RIGHT PANELS" AND SHALL BE UTILIZED WHEN VERTICAL PANELS ARE PLACED TO THE RIGHT OF TRAFFIC. VERTICAL PANELS WITH STRIPES BEGINNING AT THE UPPER LEFT SIDE AND SLOPING DOWN TO THE RIGHT ARE DESIGNATED AS "LEFT PANELS" AND SHALL BE UTILIZED WHEN VERTICAL PANELS ARE PLACED TO THE LEFT OF TRAFFIC.

SIGN FACE DETAILS



ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON AN 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.



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	50
25	105	115	125	6	25	60
30	150	165	180	7	30	70
35	205	225	245	8	35	80
40	270	295	320	9	40	90
45	450	495	540	13	45	100
50	500	550	600	13	50	100
55	550	605	660	13	55	40

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	200	200
25-30	300	250
30-35	300	300
40-45	500	400
50-60	500-1600	500-1000

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
DOWNSIDE TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT	
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 GROUP

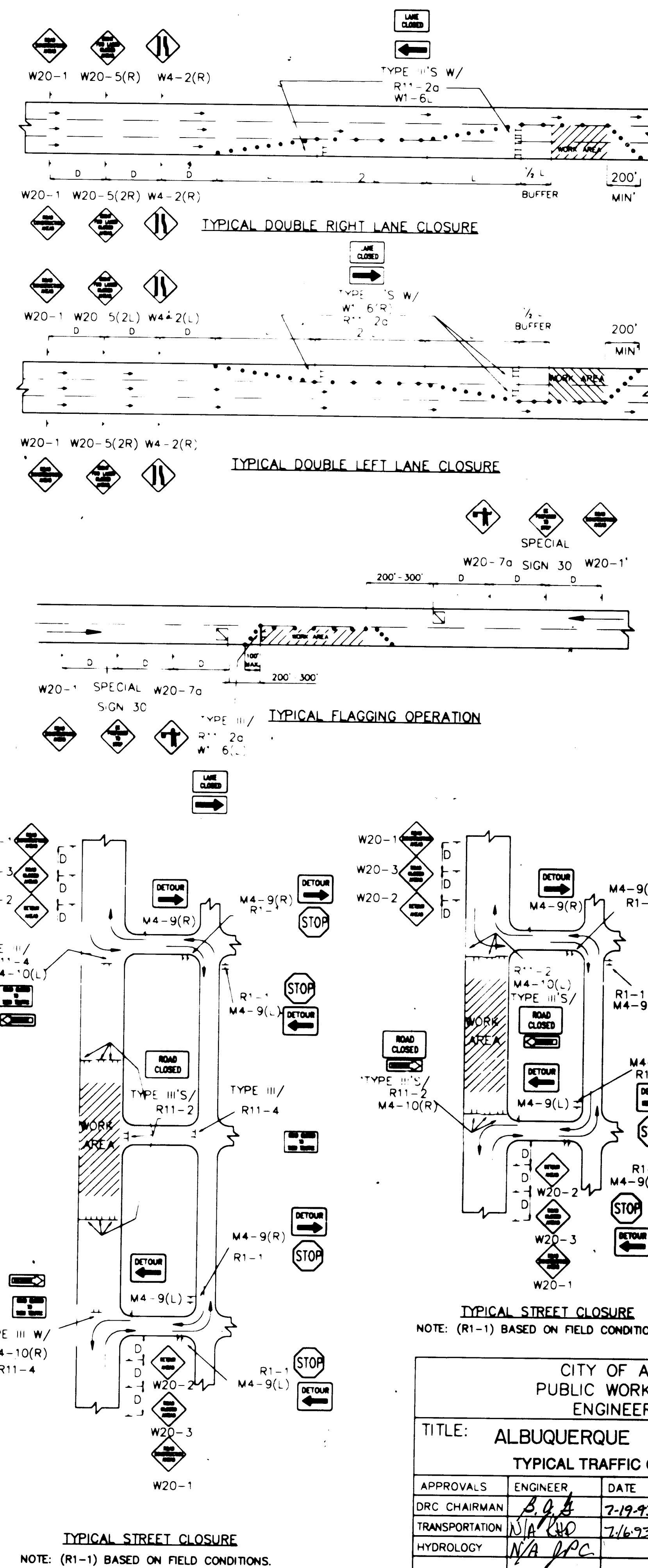
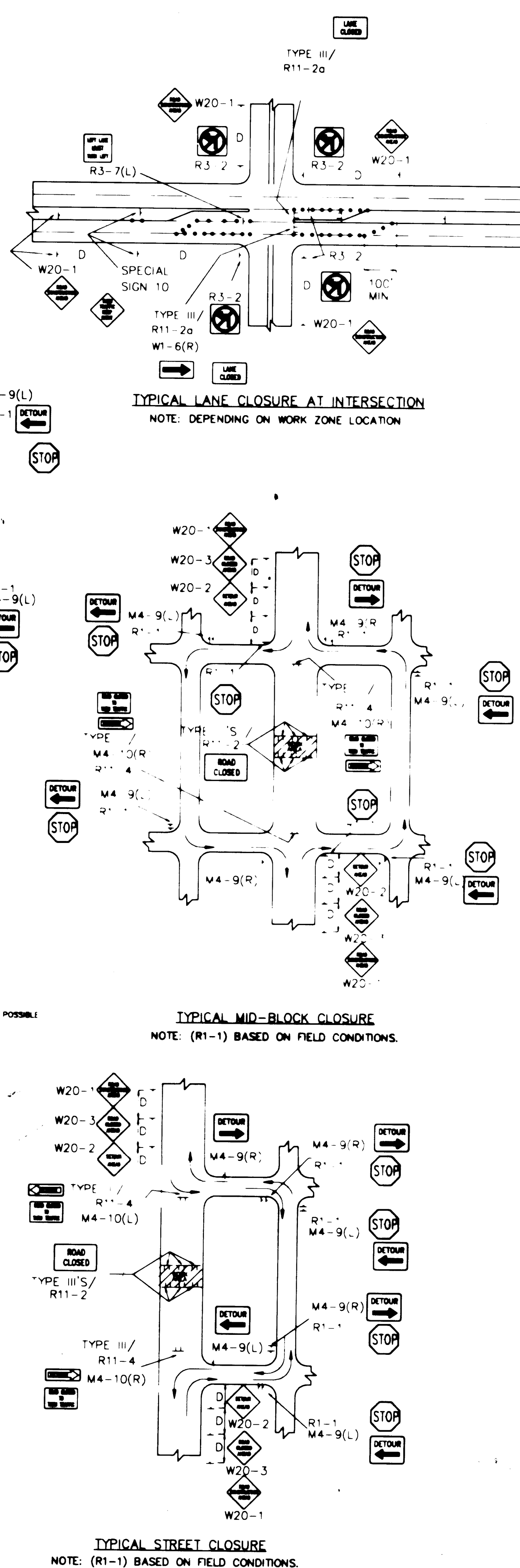
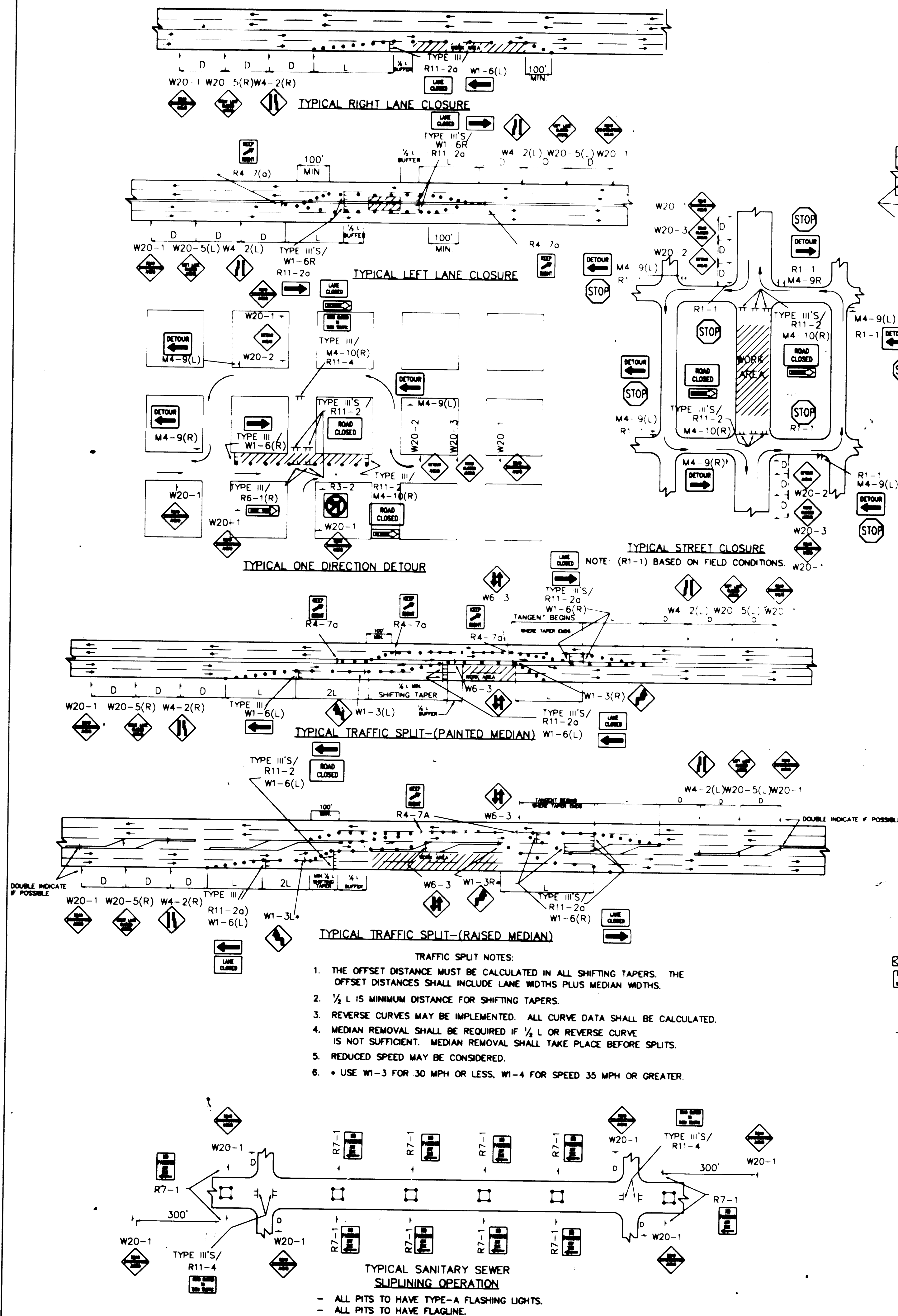
TITLE: ALBUQUERQUE BIOLOGICAL PARK
TRAFFIC CONTROL PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	SAE	7-19-93	WATER	R.W. Kane	7-16-93
TRANSPORTATION	NA	7-16-93	WASTE WATER	R.W. Kane	7-16-93
HYDROLOGY	NA		CONSTR.COORD.		

PROJECT NO. 4379.90

MAP NO. J-12

SHEET OF 9 9

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