

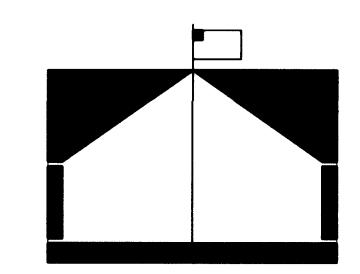
RECORD

DRAWING

CONSTRUCTION PLANS

for

A.P.S. 1997 WATERLINE EXTENSIONS





INDEX OF DRAWINGS

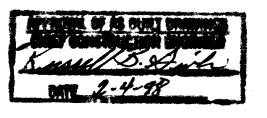
SHEET	CITY PROJECT NO.	DESCRIPTION
1	N/A	COVER SHEET, LEGEND AND INDEX OF DRAWINGS
2	N/A	A.P.S. 1997 WATERLINE EXTENSIONS LOCATION MAPS
3	N/A	TYPICAL TRAFFIC CONTROL AND SIGNING EXAMPLES
4	N/A	SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS
1-3	554781	KIT CARSON ELEMENTARY SCHOOL (BID LOT 3)
1-3	552781	MARK TWAIN ELEMENTARY SCHOOL (BID LOT 4)
1-4	560781	MISSION ELEMENTARY SCHOOL (BID LOT I)
1-3	549881	MONTEZUMA ELEMENTARY SCHOOL (BID LOT 2)
		`

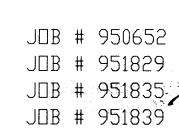


REV. SHEETS CITY ENGINEER DATE USER DEPARTMENT DATE USER DEPARTMENT DATE

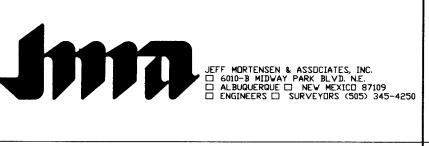
APPROVAL OF REVISIONS

SCHWIED BY







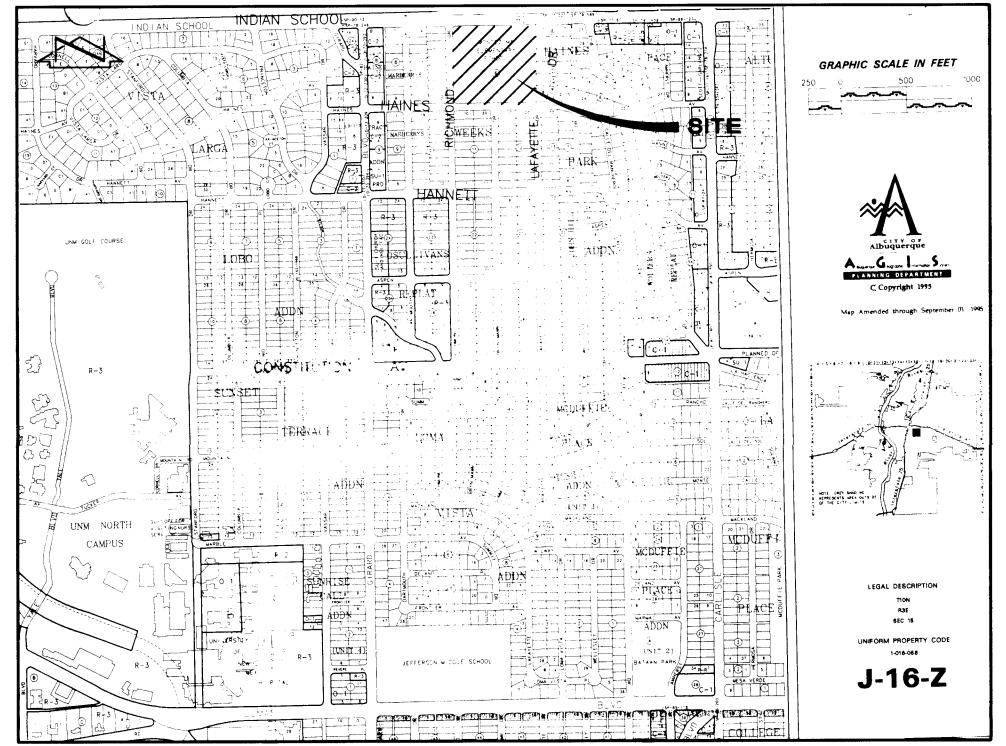


APPROVED FOR CONSTRUCTION

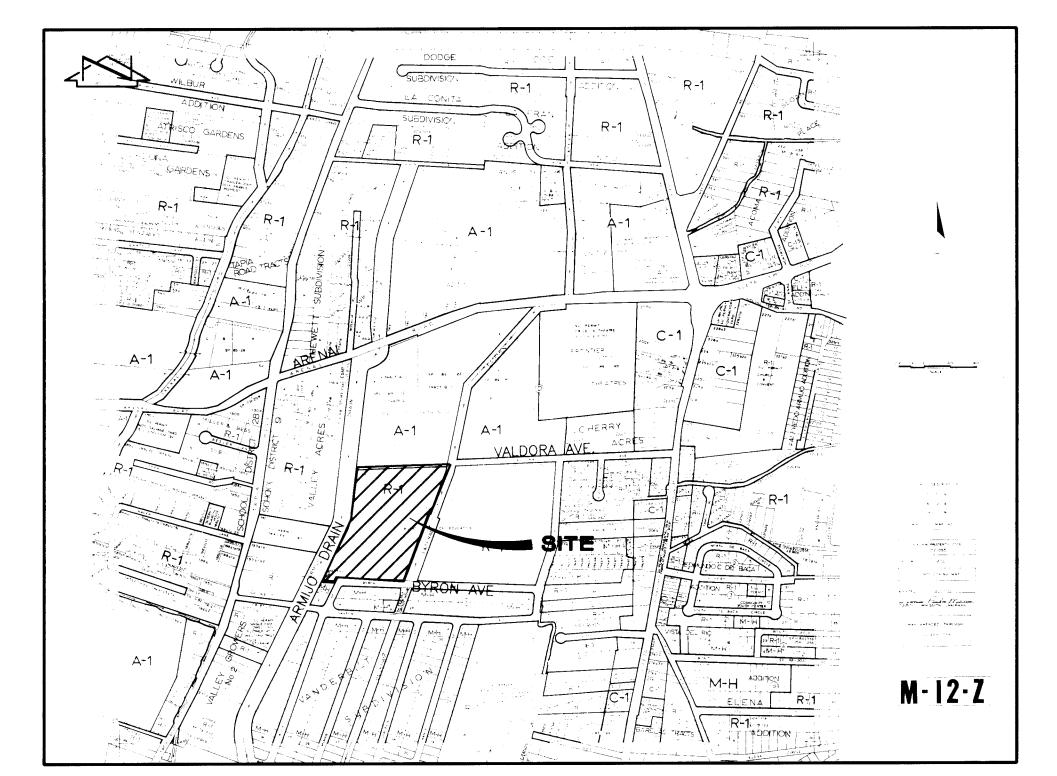
PROJECT NOS. 554781, 552781

SHEET 1 DF 17

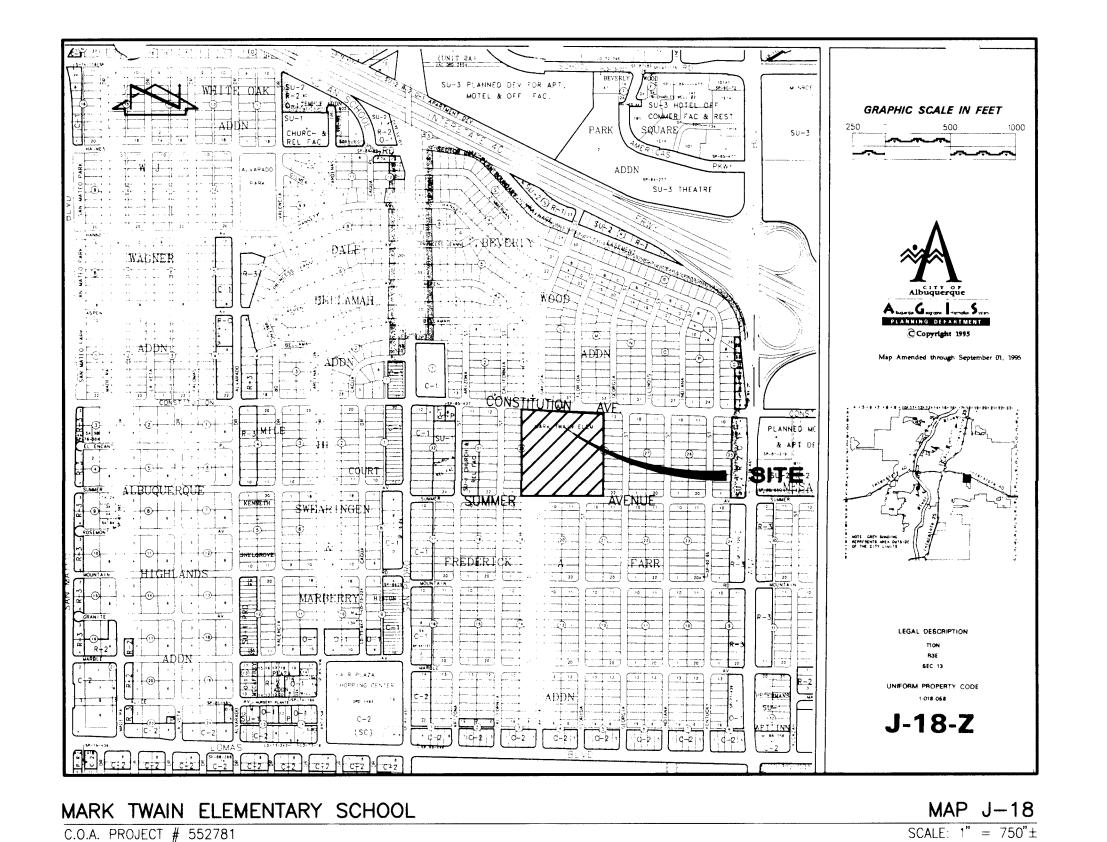
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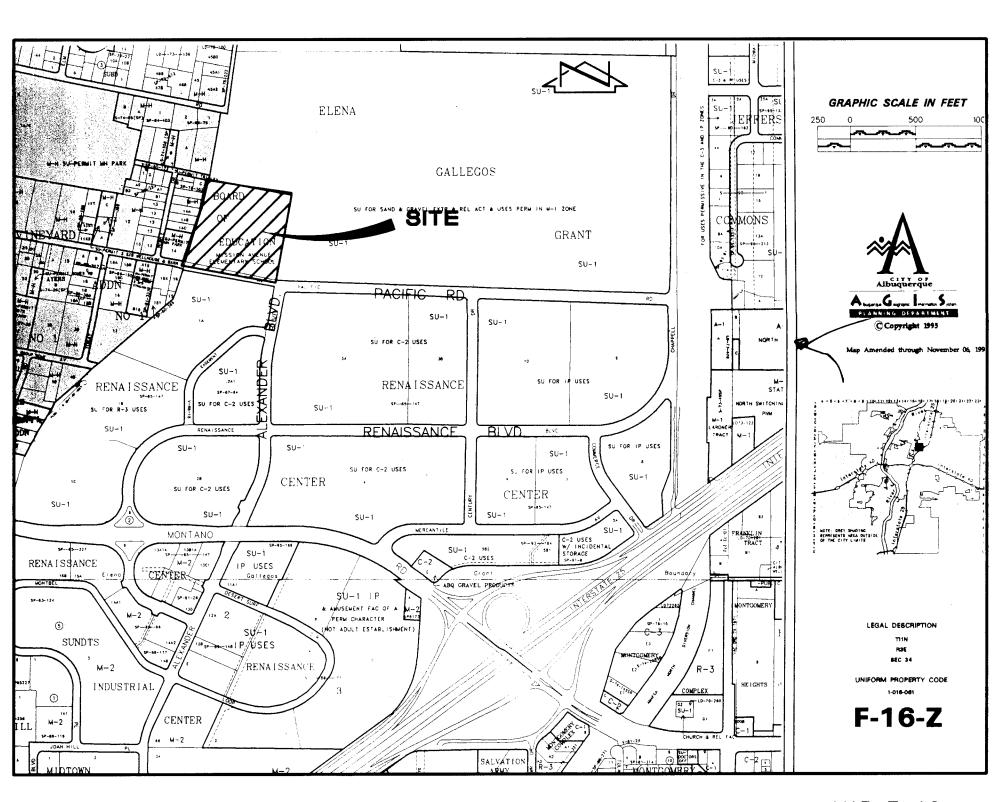






MAP M-12 KIT CARSON ELEMENTARY SCHOOL SCALE: $1'' = 750'' \pm$ C.O.A. PROJECT # 554781





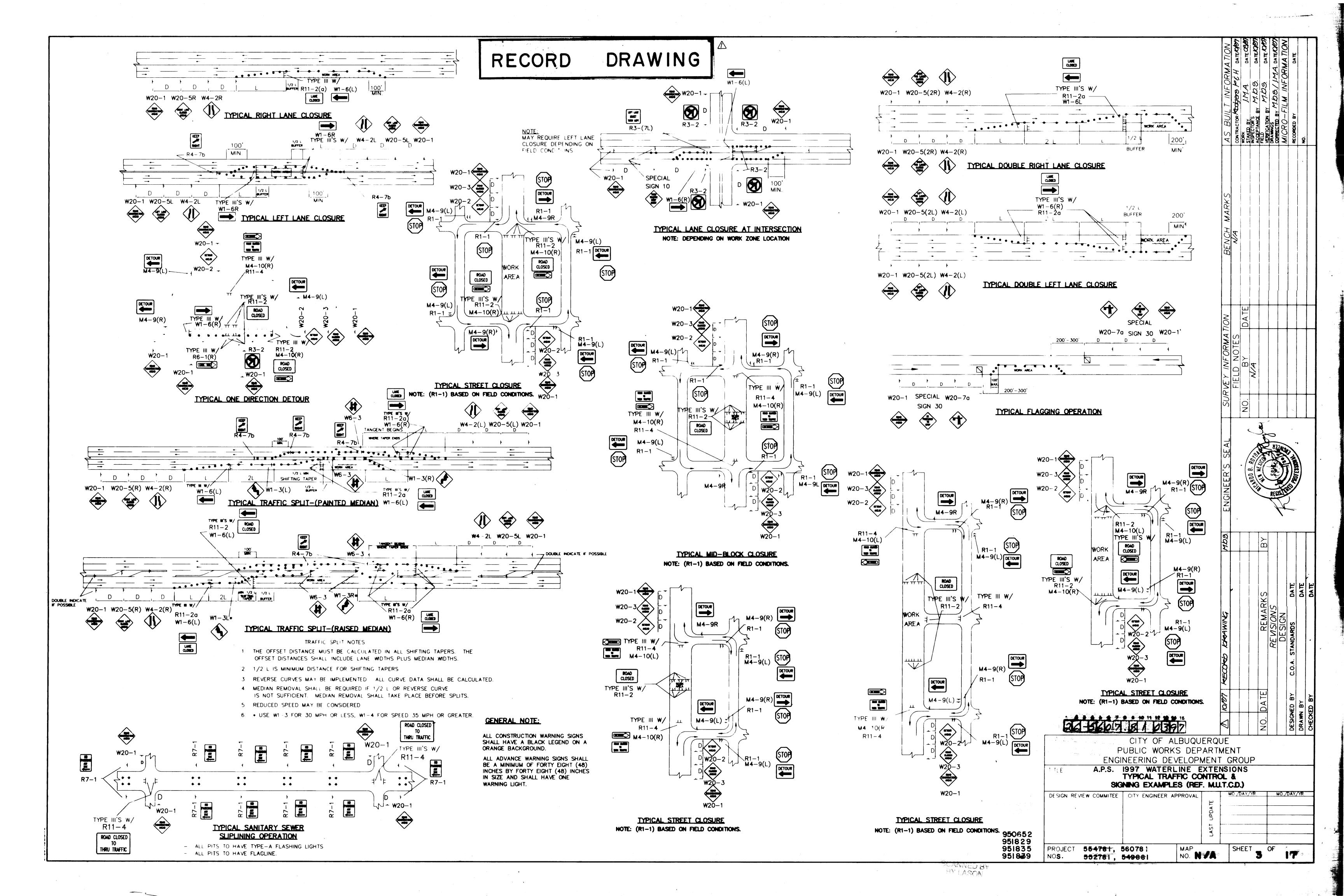
MAP F-16 MISSION ELEMENTARY SCHOOL SCALE: 1" = 750"± C.O.A. PROJECT # 560781

> 950652 951829 951835 SCARNED BY 7 951839

SEE ABOVE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP A.P.S. 1997 WATERLINE EXTENSIONS LOCATION MAPS Design Review Committee City Engineer Approval

City Project Nos. <u>55478</u>1, <u>55278</u>1 560781, 549881



CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AND EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUGERQUE'S RIGHTS-OF-WAY EMERGENCY WORK THAT WOULD PRESERVE LEE 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, SURM I FOR APPROVAL BY CONSTRUCTION COORDINATIN, A TRAFFIL CONTRIL PLAN DETAILING ALL EXISTING TOPOGRAPHY SCIEM AS LANE WIDTHS, I HOLEWAYS. AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFICE ONTROLES AN SHALL INCLUDE ALL PHASES OF WORK AND SCHELULES INVOLVED IN "" CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A DONSTHICTION. PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH BLANKET PERMITS WILL NO' BE ISSUED.

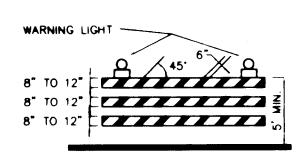
- 3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINED FRESTENTAL ACCESSES. EVERY LOCATION THAT REQUIRES LONSTR - TION THAT E CONTROL SHALL HAVE A DETAILED TRAFF (CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY
- '4 CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COMPTINATION
- 5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOUR HOUR 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 FLAN REFLECTING SUCH CHANGES.
- 6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION LIT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVILE 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 MUTICL LATEST EDITION.
- 7 THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET P SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR - THE MAINTENANCE AND SERVI No SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.
- 8 CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE A. 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 MUTCH, 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 WALL BY A ACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTET SPEED LIMIT NO EXCEPTIONS UNLESS APPROVED BY UNSTRUCTION COORDINATION PER MUTCH SECTION 64 4

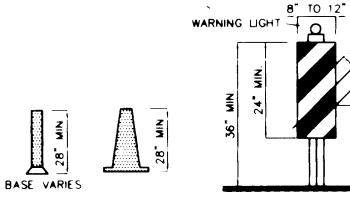
- 11 CONTRACTOR SHALL NOT BEGIN WORK BEFORE ' * AM * NE WORK AFTER 7.00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION - HONATON-
- 12. CONTRACTOR S RESPONSIBLE TO PH JIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY IN PECTIONS OF BARR AS AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER THE WILL DURATION
- 13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN THE TOP A TRAVELLED TRAFFIC LANE DURING NON WORKING HOURS WITH . THE APPROVAL OF CONSTRUCTION COORDINATION
- -14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ALEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THE CONSTRUCTION AREA
- 15. CONTRACTOR IS RESPONSIBLE FOR HEITERATION OF ANY MELICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING
- 16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, " NESSES AND/OR RESIDENTS AT ALL TIMES
- -17 CONTRACTOR SHALL PROVIDE ACCES SIGNS FOR BUSINES DOCATED -within the construction area under the supervision of \sim N -truction -COORDINATION EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE PAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND - A DESS SIGNS SHALL HE ONSIDERE! INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS STHERWISE -STATED. NO MORE THAN 3 BUSINESSES HALL BE LISTED ON A A LESS OF A SHOPPING CENTER , AND MALLS CHALL BE STED AS SWITH
- 18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REPLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERD E CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ACTUANCE WARNING SIGN PER SECTION 6A 4 OF THE MUTCD, LATEST EDITION
- 19. 24 HOURS PRIOR TO OCCUPTING OR COSING OF A RIGHT F WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOL. 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 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 "S PLACEMEN" AND MAINTENANCE.
- 25. TRAFFIC CONTROL STANDARDS APPLY UNLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC

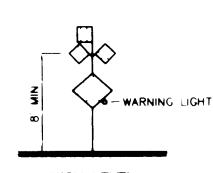
26. ADVANCE WARNING SIGNS SHALL BE 36" x36" WITH SUPER ENGINEERING GRADE SHEETING OR BETTER



TYPE III BARRICADE







HIGH LEVEL WARNING DEVICE

LEGEND

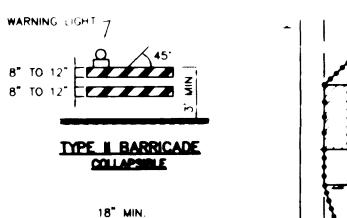
WORK AREA

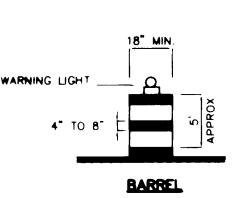
- BARRICADE TYPE I, TYPE II, OR BARREL
- BARRICADE TYPE III

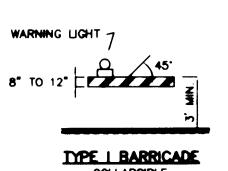
FLAGMAN POSITION

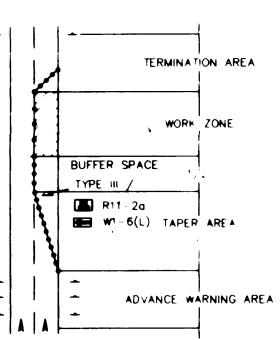
- VERTICAL PANEL
- WARNING SIGN
- DISTANCE BETWEEN SIGNS A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
- SPACING BETWEEN BARRICADES A DISTANCE MEASURED IN FEET
- EQUAL TO THE SPEED LIMIT OF THE STREET TAPER LENGTH - SEE CHART BELOW

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET









TRAFFIC CONTROL ELEMENTS

TAPER REQUIREMENTS

SPEED LIMIT	TAPER LENGTH (L) (FEET)			MINIMUM NUMBER	MAXIMUM DEVICE SPACING IN FEET		
(MPH)	10' ANE	11' LANE	12' LANE	OF DEVICES FOR TAPER	ALONG TAPER	AFTER TAPER	
20	'0	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

	ALYAN	<u> </u>	70	AKNII	<u> 46 2</u>	UN	_2		2
	SPEED			MINIM	UM DIS	TANC	Æ	IN FEE	r
į	MILES PER HOUR		(BETWEE! SIGNS				OM LAS	
	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 CRITERI	Δ
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

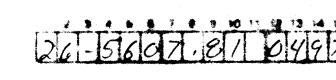
100 FEET PER LANE

TAPER LENGTH COMPUTATION

DWNSTREAM TAPERS

SPEED LIMIT

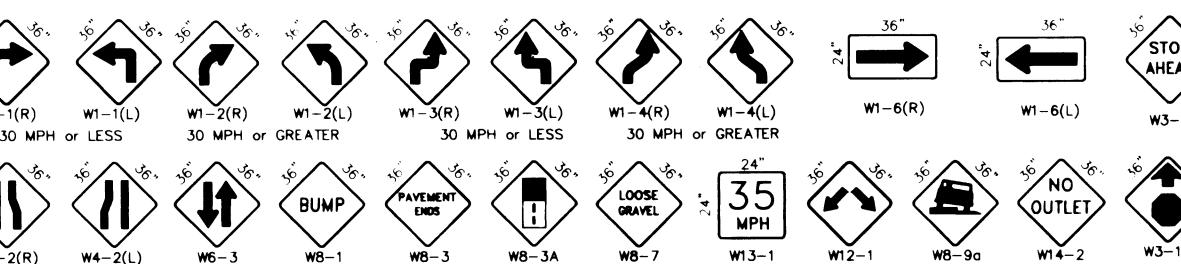
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR GREATER	$L = W \times S$
= TAPER LENGTH w = width of offset i S = Posted speed or 85-percentile spe	OFF-PEAK

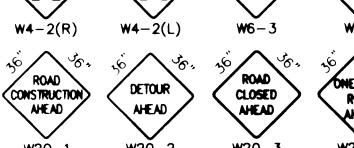


CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP A.P.S. 1997 WATERLINE EXTENSIONS SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL 950652 951829 SHEET PROJECT **554781**, **56078!** 951835 NO. N/A NOS. 951839 552781. 549881

SIGN FACE DETAILS





WAY

THRU TRAFFIC KEEP

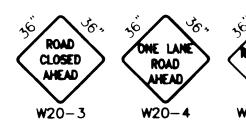
SPECIAL

SIGN

DO NOT

TRAFFIC KEEP

SPECIAL



11MIT

ONE WAY

PREPARED TO

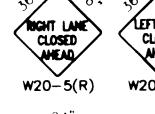
STOP

SIGN

REDUCED

SPEED

AHEAD



PARKING

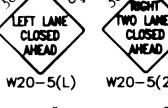
REDUCED SPEED 30

ONE WAY

ACCESS

TO

SPECIAL SIGN





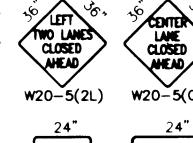
R3 - 2

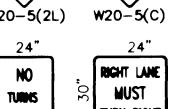
CLOSED

ALL CONSTRUCTION WARNING SIGNS

ORANGE BACKGROUND.

SHALL HAVE A BLACK LEGEND ON A



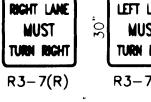


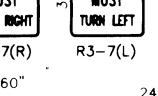


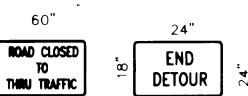


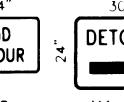


R11-4

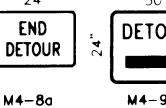


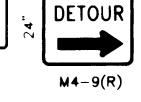


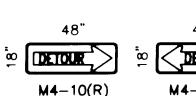


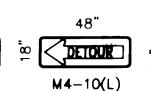


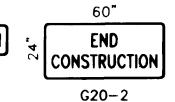
KEEP











M4-9(L)

KEEP

LEFT

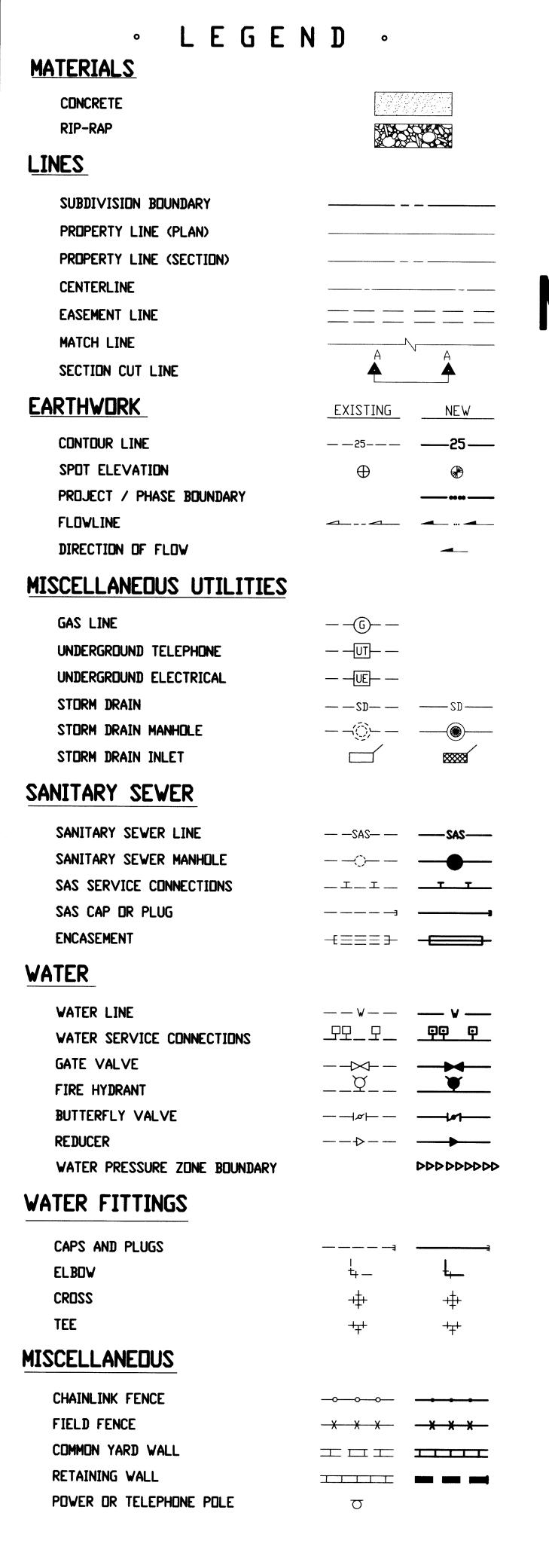
R4 - 7b(L)

RECORD

CLOSED

R11-2a

DRAWING



RECORD DRAWING

CONSTRUCTION PLANS

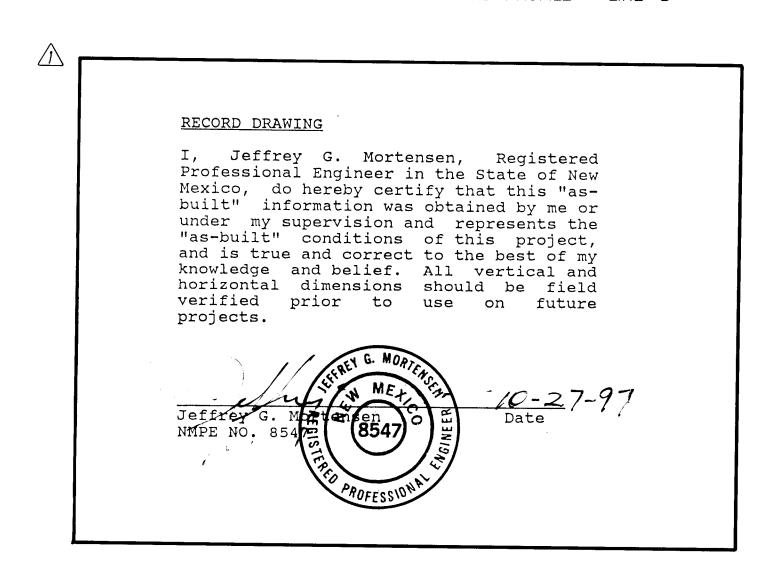
MISSION AVENUE ELEMENTARY SCHOOL WATERLINE EXTENSIONS

ALBUQUERQUE, NEW MEXICO DECEMBER, 1996

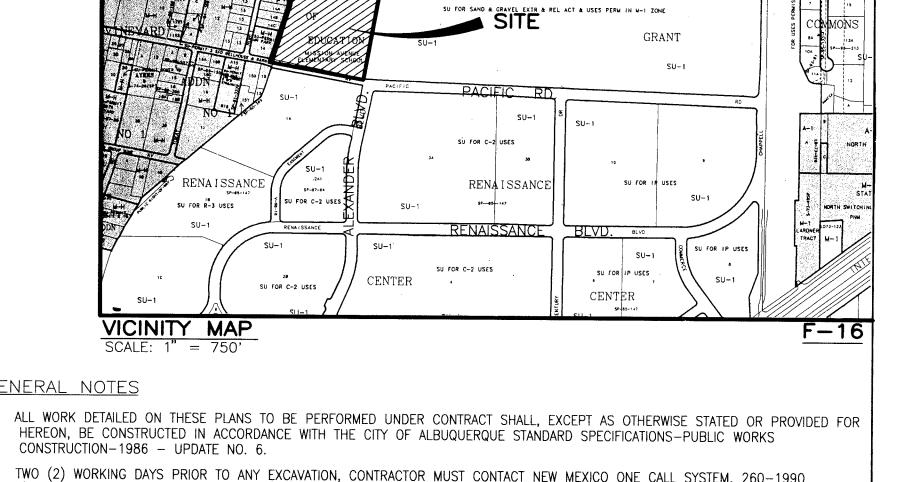


INDEX OF DRAWINGS

SHEET	DESCRIPTION
1	COVER SHEET, VICINITY MAP, GENERAL NOTES, LEGEND AND INDEX OF DRAWINGS
2	SITE PLAN, INSTALLATION SEQUENCE, WATER VALVE SHUTOFF PLAN, SECTIONS AND DETAILS
3	WATERLINE EXTENSION PLAN AND PROFILE - LINE 'A'
4	WATERLINE EXTENSION PLAN AND PROFILE - LINE 'B'



BID LOT 1

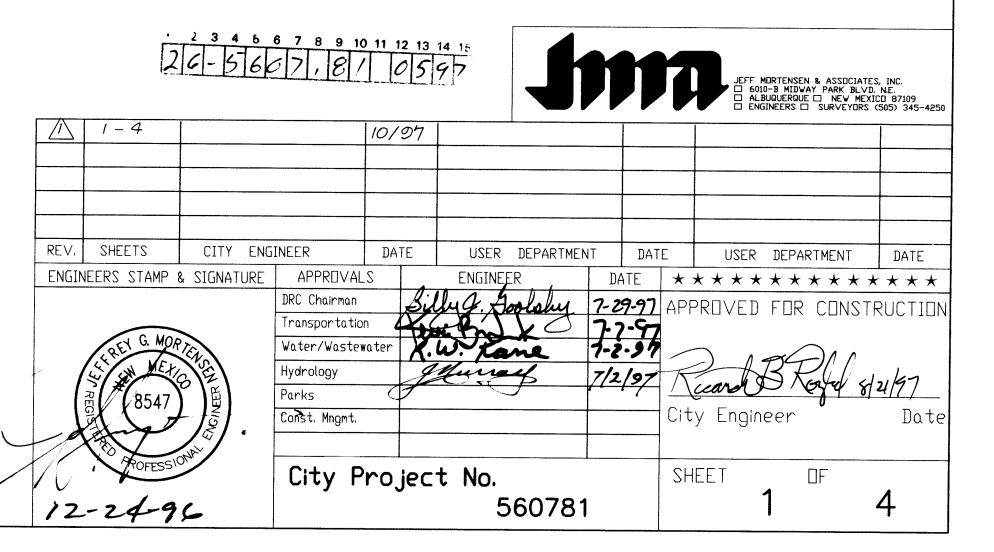


GALLEGOS

GENERAL NOTES

- HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS-PUBLIC WORKS
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM. 260-1990 (ALBUQUERQUE AREA), 1-800-321-ALERT (2537) (STATEWIDE) AND APS MAINTENANCE AND OPERATIONS
- 3. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS. PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
- SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
- 5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION
- 6. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
- 7. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- 8. BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- 9. TACK COAT REQUIREMENTS SHALL BE DETERMINED DURING CONSTRUCTION BY THE PROJECT ENGINEER
- 10. SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS
- 11. IF CURB IS DEPRESSED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
- 12. ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- 13. CONTRACTOR SHALL COORDINATE WITH THE WATER SYSTEM DIVISION FOR THE EXECUTION OF THE VALVE SHUT OFF PLAN, NOT LESS THAN FIVE (5) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT THE EXISTING PUBLIC WATER UTILITIES. ONLY WATER SYSTEM DIVISION PERSONNEL SHALL OPERATE EXISTING VALVES. REFER TO SECTION 18 OF THE SPECIFICATION. THE WATER SYSTEM DIVISION PHONE NUMBER IS 857-8200.
- 14. CONTRACTOR SHALL NOTIFY THE CITY SURVEYOR NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED 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 THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE SPECIFICATIONS.
- FIVE (5)

 THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION CO-ORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION CO-ORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. CONTRACTOR MUST REFER TO SECTION 19 OF THE STANDARD SPECIFICATION FOR TRAFFIC CONTROL.
- 16. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED STRIPING BY CONTRACTOR TO EXISTING LOCATION OR AS INDICATED BY THIS PLAN SET.
- 17. CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
- 18. ANY WORK OCCURRING WITHIN AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.



SCANNED BY BYLASON

