



DRB-97-422

# LOVE RESERVOIR REPLACEMENT

**BUILDING INFORMATION**

OWNER: CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
WATER UTILITY DIVISION  
5501 PINO AVE. NE, BLDG. J  
ALBUQUERQUE, NM 87109  
TEL: (505) 857-8200

ADDRESS: 10611 LOMAS BLVD., NE  
ALBUQUERQUE, NM

ZONING: R-1

CONSTRUCTION: N/A

BUILDING (RESERVOIR) AREA: 41,300 SQ. FT.  
BUILDING (FUTURE CHLORINATION/FLUORIDATION) AREA: 640 SQ. FT.

LOT AREA: 244,200 SQ. FT. (5.61 AC)

EPC FILE NO.: Z-97-65

**INDEX OF DRAWINGS**

SHEET NO.	TITLE OF SHEET
1	TITLE SHEET
2	SITE LAYOUT PLAN
3	LANDSCAPE PLAN
4	GRADING AND DRAINAGE PLAN
5	SITE ELEVATIONS
6	CHLORINATION/FLUORIDATION BUILDING ELEVATIONS

*Kevin L. Dine*  
CHAIRMAN  
ALBUQUERQUE BERNALILLO COUNTY  
DEVELOPMENT REVIEW BOARD  
DATE: 10/28/97

*Tom J. Coyne* 10-28-97  
CITY ENGINEER  
DATE

*Tom J. Coyne* 10-28-97  
A.M.A.F.C.A.  
DATE

*Edward G. Stang*  
PARKS AND RECREATION SPECIAL SERVICES  
DATE: 10-28-97

*Natalie Davis*  
TRAFFIC ENGINEER  
DATE: 10-28-97

*Roger A. Shee*  
UTILITIES DEVELOPMENT DIVISION  
CITY OF ALBUQUERQUE PUBLIC WORKS  
DATE: 10-28-97

CITY PLANNER  
DATE

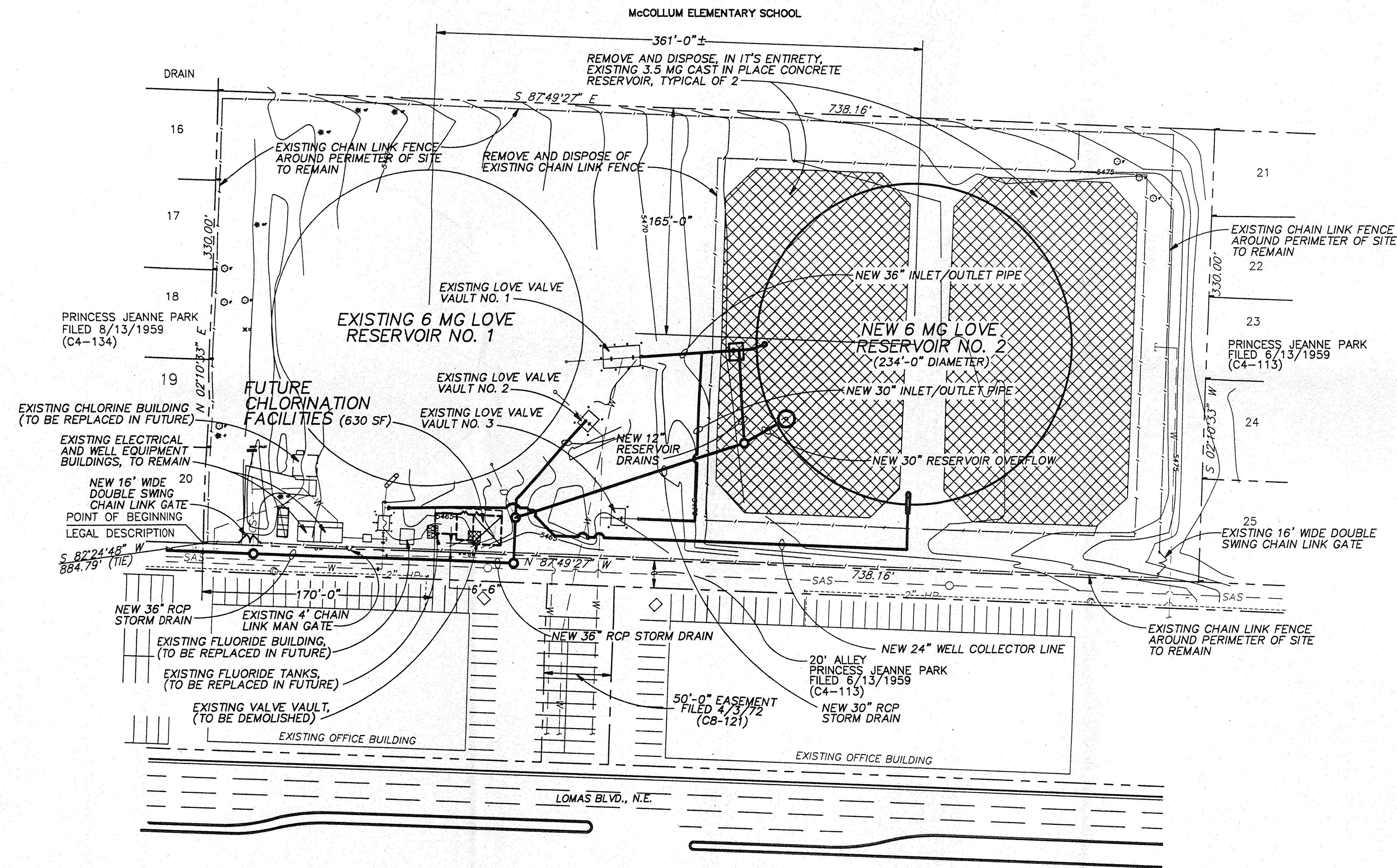
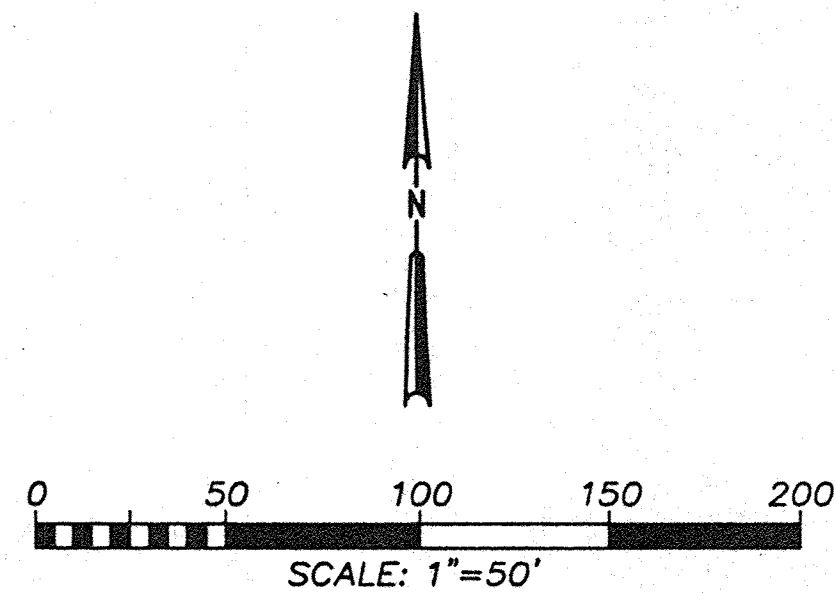
DRB-97-422



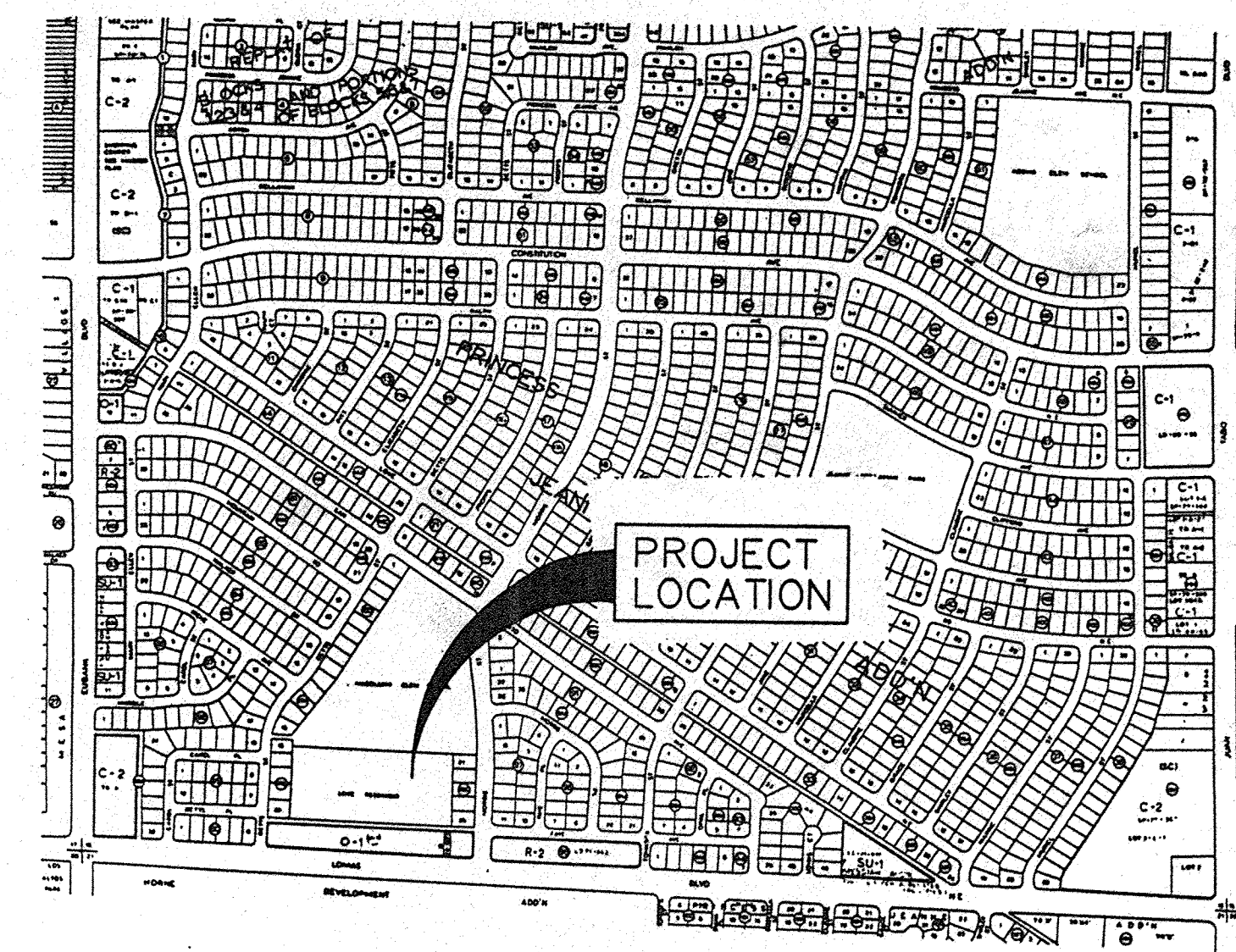
REV	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER	DATE	*****	
		DRC Chairman		APPROVED FOR CONSTRUCTION			
		Transportation					
		Water/Wastewater					
		Hydrology					
		Parks					
Const. Mngmt.		City Engineer		Date			
City Project No.		5511.91		Sheet 1 Of 6		DRAWING NO.	

DRB-97-422





LOVE RESERVOIR - SITE PLAN



VICINITY MAP  
SCALE: 1" = 750'  
ZONE ATLAS MAP J-21-Z

LEGEND

- EXISTING STRUCTURE
- CHAIN LINK FENCE
- DEMOLITION (TO BE REMOVED)
- PROPERTY LINE OR RIGHT-OF-WAY
- PROPOSED PIPE
- EXIST SANITARY SEWER
- EXIST WATER LINE
- EXIST GAS LINE
- EXIST UNDERGROUND TELEPHONE
- EXIST UNDERGROUND ELECTRIC
- EXIST STORM SEWER
- EXIST CABLE TELEVISION
- EXISTING MANHOLE
- NEW MANHOLE
- FIRE HYDRANT
- POWER POLE
- ANCHOR
- TREE (EVERGREEN)
- TREE (DECIDUOUS)
- DROP INLET
- OVERHEAD POWER LINE

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

AS BUILT INFORMATION	
CONTRACTOR	DATE
WORK STARTED BY	DATE
FIELD ACCEPTANCE BY	DATE
FIELD REVISION BY	DATE
DRAWINGS CORRECTED BY	DATE
MICRO FILM INFORMATION	DATE
RECORDED BY	DATE
NO.	

SURVEY INFORMATION	
FIELD NOTES	DATE
BY	
NO.	

ENGINEER'S SEAL	

NO.	DATE	REVISIONS	BY
		DESIGN	

DESIGNED BY	DATE
MGN	AUG 1997

DRAWN BY	DATE
MAB	AUG 1997

CHECKED BY	DATE
MAB	AUG 1997

**CH2M HILL**  
6001 Indian School Rd, N.E.  
Suite 350  
Albuquerque, New Mexico  
87110  
(505) 884-5600

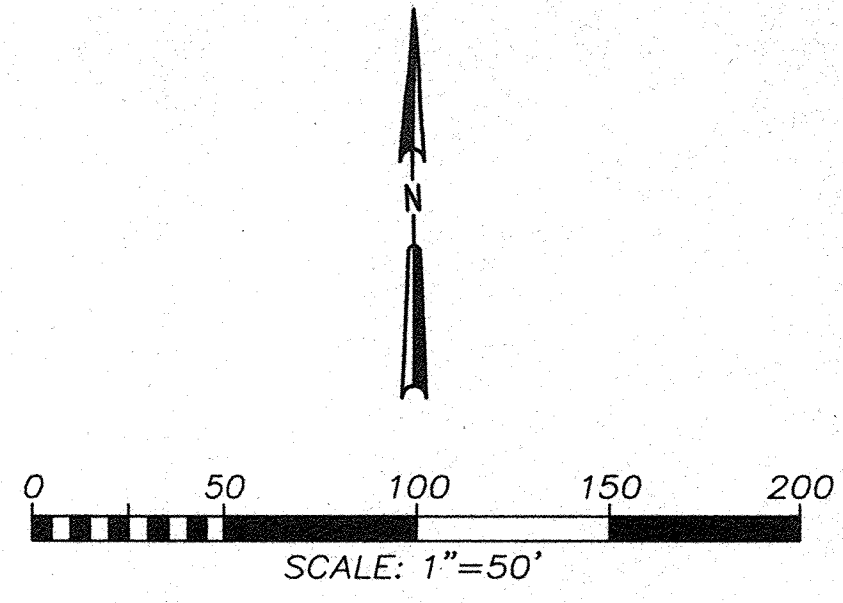
CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

TITLE: LOVE RESERVOIR REPLACEMENT  
SITE LAYOUT PLAN

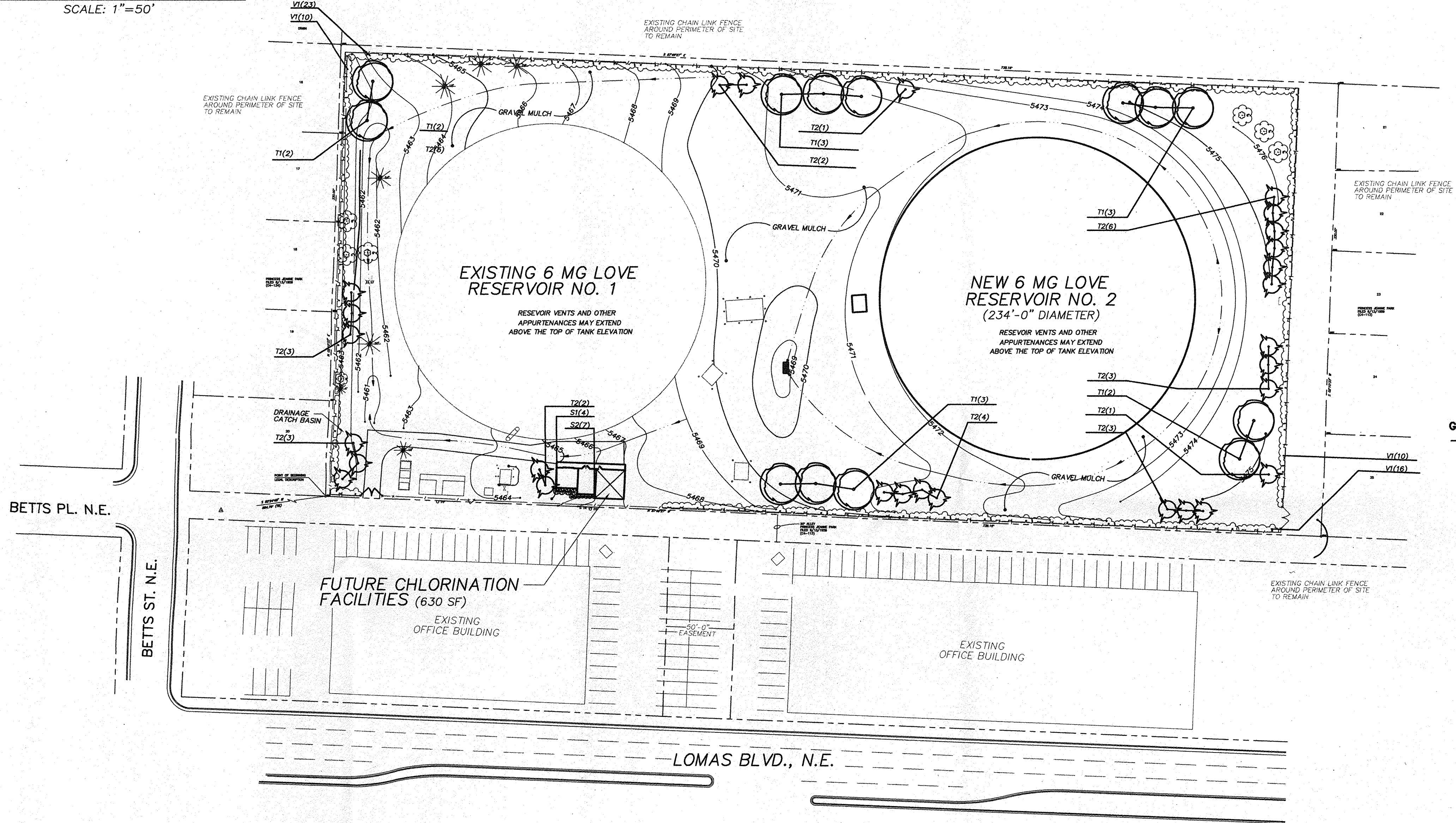
Design Review Committee	City Engineer Approval	Mo./Yr.	Mo./Yr.

CITY PROJECT NO. 5511.91      Zone Map No. J-21      SHEET 2 OF 6  
DRAWING NO.





McCOLLUM ELEMENTARY SCHOOL



LOVE RESERVOIR - LANDSCAPE PLAN

GENERAL NOTES

- EXISTING TREE TO REMAIN
- IRRIGATION:** AN UNDERGROUND IRRIGATION SYSTEM WILL BE INSTALLED FOR ALL PLANT MATERIALS. THE SYSTEM WILL BE A LOW FLOW BUBBLER SYSTEM DESIGNED FOR DROUGHT TOLERANT TREES AND VINES IN THIS LANDSCAPE. ALL IRRIGATION COMPONENTS INSTALLED WILL BE NEW, WITHOUT FLAWS, AND IN GOOD WORKING ORDER. THE IRRIGATION SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF THE UNIFORM PLUMBING CODE. A WEATHERPROOF AUTOMATIC CONTROLLER SHALL BE FURNISHED BY THE CONTRACTOR FOR THE IRRIGATION SYSTEM.
- MAINTENANCE:** RESPONSIBILITY FOR THE MAINTENANCE SHALL BE WITH THE OWNER OF THE SITE.
- LANDSCAPE AREA REQUIREMENT:** LANDSCAPED AREA REQUIREMENT - 24,237 SQUARE FEET  
 LANDSCAPED AREA PROVIDED - 33160 SQUARE FEET

PLANT SCHEDULE

Symbol	Common Name / Scientific Name	Size	Container	Quantity	Unit	Remark
T1	Chinese Pistache / <i>Pistacia chinenses</i>	2.5" Cal.	24"Box	13	Each	
	Honey Locust / <i>Cleditsia triacanthos</i>					
T2	Heitz's Columnaris / <i>Juniperus chinensis 'Hetzii Columnaris'</i>	2" Cal.	15 Gal.	28	Each	
	Keteleer Juniper / <i>Juniperus chinensis 'Keteleeri'</i>					
V1	Boston Ivy / <i>Parthenocissus tricuspidata</i>	1' Height	1 Gal.	59	Each	
	Woodbine / <i>Parthenocissus inserta</i>					
S1	Cranberry Cotoneaster / <i>Cotoneaster apiculatus</i>	1' Height	1 Gal.	4	Each	
	Dwarf Butterflybush / <i>Buddleia davidii nanhoensis</i>					
S2	Blue Mist / <i>Caryopteris x clandonensis</i>	1' Height	1 Gal.	7	Each	
	Hummingbird Trumpet / <i>Anisacanthus thunbergii</i>					

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CH2M HILL  
 6001 Indian School Rd, N.E.  
 Suite 350  
 Albuquerque, New Mexico 87110  
 (505) 884-5600

CITY OF ALBUQUERQUE  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING DEVELOPMENT GROUP

TITLE: LOVE RESERVOIRS REPLACEMENT  
**LOVE RESERVOIR - LANDSCAPE PLAN**

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.

CITY PROJECT NO. \_\_\_\_\_ Zone Map No. \_\_\_\_\_ SHEET 3 OF 6  
 J-21 DRAWING NO. \_\_\_\_\_

AS BUILT INFORMATION		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE

LCH-LS01.DWG  
 1=50  
 7-31-97



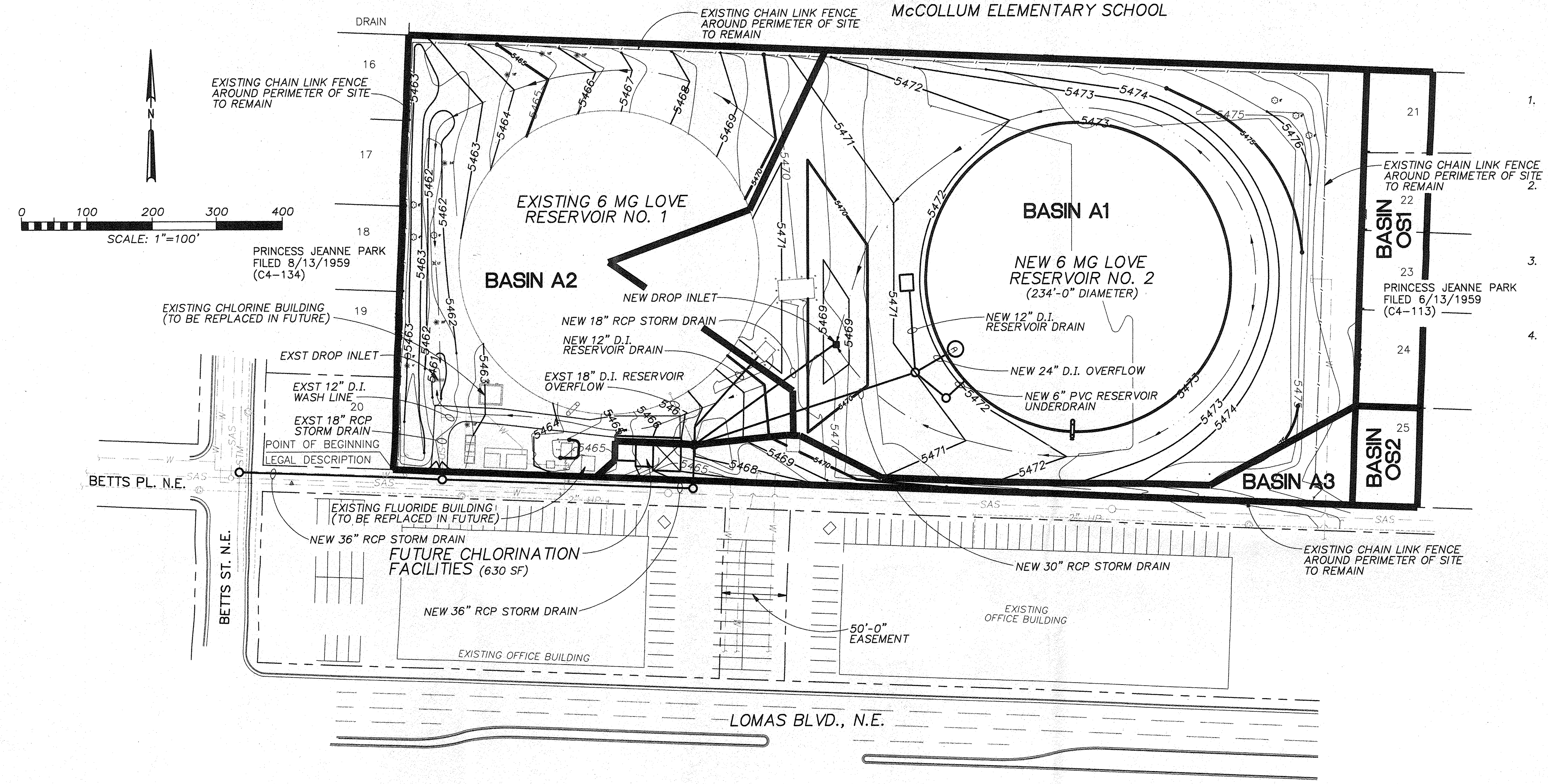
**LEGAL DESCRIPTION**  
 LOVE RESERVOIR SITE: TRACT A, BLOCK 85, PRINCESS JEANNE ADDITION, ZONED R-1 RESIDENTIAL, AND LOCATED NORTH OF LOMAS BOULEVARD, N.E. BETWEEN BETTS STREET, N.E. AND MORRIS STREET, N.E. CONTAINING APPROXIMATELY 5.6 ACRES.

**SITE RUNOFF SUMMARY**

1. RUNOFF FLOWS FROM THE ONSITE BASIN A1 AND THE OFFSITE BASIN OS1 WILL DRAIN TO THE NEW DROP INLET STRUCTURE LOCATED NEAR THE CENTER OF THE SITE. THE RUNOFF FLOW FROM THESE AREAS, (18.92 cfs (100 YEAR) AND 11.91 cfs (10 YEAR)) WILL BE COLLECTED AT THE NEW DROP INLET STRUCTURE AND CARRIED OFFSITE TO THE EXISTING 36-INCH RCP STORM DRAIN ON BETTS STREET, N.E..
2. RUNOFF FLOWS FROM THE ONSITE BASIN A2 WILL DRAIN TO THE EXISTING DROP INLET STRUCTURE NEAR THE S.W. CORNER OF THE SITE. THE RUNOFF FLOW FROM THIS AREA, (8.79 cfs (100 YEAR) AND 5.71 cfs (10 YEAR)) WILL BE COLLECTED AT THE EXISTING DROP INLET STRUCTURE AND CARRIED TO THE EXISTING 36-INCH RCP STORM DRAIN ON BETTS STREET, N.E..
3. RUNOFF FLOWS FROM THE ONSITE BASIN A3 AND THE OFFSITE BASIN OS2 WILL DRAIN OFF THE SITE INTO THE EXISTING ALLEY ADJACENT TO THE SOUTH SIDE OF THE SITE. THE RUNOFF FLOW FROM THESE AREAS, TOTALLING 2.36 cfs (100 YEAR) AND 1.42 cfs (10 YEAR), WILL FLOW WEST IN THE ALLEY TO BETTS STREET, N.E. AND THEN SOUTH ALONG BETTS STREET TO LOMAS BLVD..
4. THE EXISTING 30 AND 36-INCH RCP STORM DRAIN, LOCATED IN THE ALLEY ALONG THE SOUTH SIDE OF THE SITE, WILL BE RECONSTRUCTED FROM BETTS STREET EAST TO THE END OF THE LINE IN ORDER TO ACCOMMODATE THE NEW RESERVOIR OVERFLOW AND DRAIN PIPING.

**LEGEND**

- BASIN BOUNDARY
- - - PROPERTY LINE
- 5474 — NEW GRADING CONTOUR
- 5474 — EXISTING CONTOUR
- NEW DRAIN PIPING
- - - SAS — EXISTING UTILITIES



**RUNOFF CALCULATION SUMMARY TABLE**

BASIN DESIGNATION	TREATMENT CLASSIFICATION	AREA OF BASIN (ACRES)	"C" FACTOR 10 YR/100 YR (SEE NOTE 1)	"R" (INCHES) 10 YEAR/100 YEAR (SEE NOTE 2)	T <sub>c</sub> (MINUTES)	"I" (IN/HR) 10 YEAR/100 YEAR (SEE NOTE 3)	Q (10 YEAR)	Q (100 YEAR)
<b>OFFSITE</b>								
OS1	B	.48	0.38/0.52	1.93/2.90	12	3.83/5.61	0.70	1.40
OS1	D	.65	0.93/0.94	1.93/2.90	12	3.83/5.61	2.32	3.43
<b>TOTAL OS1</b>		<b>1.13</b>					<b>3.02</b>	<b>4.83</b>
OS2	B	.20	0.38/0.52	1.93/2.90	12	3.83/5.61	0.29	0.58
OS2	D	.14	0.93/0.94	1.93/2.90	12	3.83/5.61	0.50	0.74
<b>TOTAL OS2</b>		<b>.34</b>					<b>0.79</b>	<b>1.32</b>
<b>ONSITE</b>								
A1	B	0.06	0.38/0.52	1.93/2.90	12	3.83/5.61	0.09	0.26
A1	C	2.27	0.59/0.66	1.93/2.90	12	3.83/5.61	5.13	8.40
A1	D	1.03	0.93/0.94	1.93/2.90	12	3.83/5.61	3.67	5.43
<b>TOTAL A1</b>		<b>3.36</b>					<b>8.89</b>	<b>14.09</b>
A2	B	0.07	0.38/0.52	1.93/2.90	12	3.83/5.61	0.10	0.20
A2	C	0.81	0.59/0.66	1.93/2.90	12	3.83/5.61	1.83	3.00
A2	D	1.06	0.93/0.94	1.93/2.90	12	3.83/5.61	3.78	5.59
<b>TOTAL A2</b>		<b>1.94</b>					<b>5.71</b>	<b>8.79</b>
A3	B	0.06	0.38/0.52	1.93/2.90	12	3.83/5.61	0.09	0.18
A3	C	0.22	0.59/0.66	1.93/2.90	12	3.83/5.61	0.50	0.81
A3	D	0.01	0.93/0.94	1.93/2.90	12	3.83/5.61	0.04	0.05
<b>TOTAL A3</b>		<b>0.29</b>					<b>0.63</b>	<b>1.04</b>

- NOTES:**
1. RATIONAL METHOD COEFFICIENT "C" FROM TABLE A-11, DPM SECTION 22.2.
  2. DEPTH (INCHES) "R" AT 100 YEAR STORM FROM TABLE A-2, DPM SECTION 22.2.
  3. PEAK INTENSITY (IN/HR) "I" FROM TABLE A-10, DPM SECTION 22.2.

**VERIFY SCALES**  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

**CH2M HILL**  
 6001 Indian School Rd, N.E.  
 Suite 350  
 Albuquerque, New Mexico  
 87110  
 (505) 884-5600

CITY OF ALBUQUERQUE  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING DEVELOPMENT GROUP

**TITLE: LOVE RESERVOIR REPLACEMENT GRADING AND DRAINAGE PLAN**

DESIGNED BY: MAB DATE: AUG 1997  
 DRAWN BY: MAB DATE: AUG 1997  
 CHECKED BY: MGN DATE: AUG 1997

REVISIONS  
 NO. DATE BY

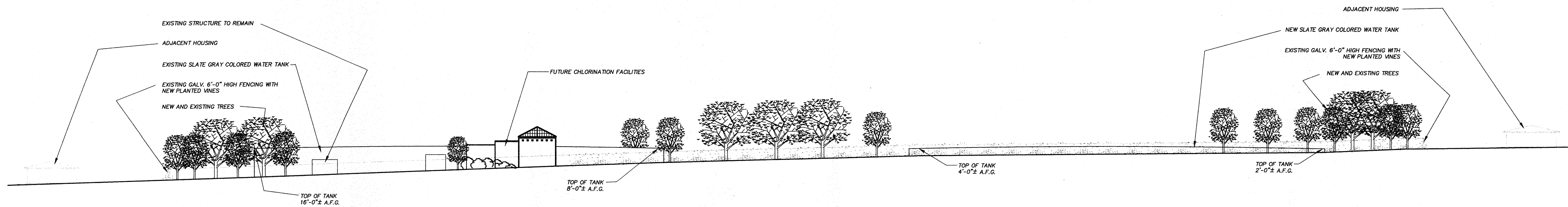
DESIGN

Design Review Committee City Engineer Approval

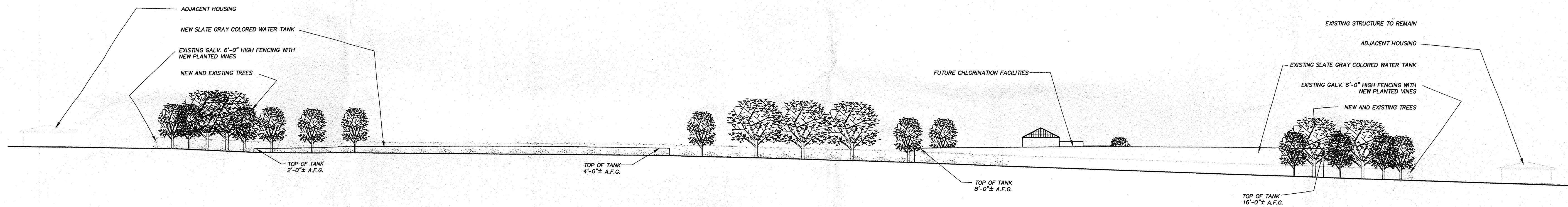
CITY PROJECT NO. **5511.91** Zone Map No. **J-21** SHEET **4** OF **6**  
 DRAWING NO.

**SITE DRAINAGE BASINS, PROPOSED IMPROVEMENTS AND RUNOFF FLOW SUMMARY**

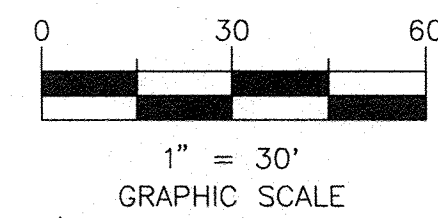




**LOVE RESERVOIR - SOUTH ELEVATION**  
SCALE: 1" = 30'



**LOVE RESERVOIR - NORTH ELEVATION**  
SCALE: 1" = 30'



VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1"  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

**CH2M HILL**  
6001 Indian School Rd., N.E.  
Suite 350  
Albuquerque, New Mexico  
87110  
(505) 884-5600

AS BUILT INFORMATION	
CONTRACTOR	DATE
WORKED BY	DATE
INSPECTOR'S	DATE
ACCEPTANCE BY	DATE
VERIFICATION BY	DATE
DRAWINGS BY	DATE
DESIGNED BY	DATE
RECORDED BY	DATE
NO.	

BENCH MARKS	

SURVEY INFORMATION	
FIELD NOTES	DATE
NO.	
BY	

ENGINEER'S SEAL  
  
 9/16/97

REVISIONS	
NO.	DATE
REMARKS	BY
DESIGN	DATE 4-97
	DATE 7-97
	DATE 7-97
DESIGNED BY D. DUNN	
DRAWN BY C. CARIAN	
CHECKED BY JOP	

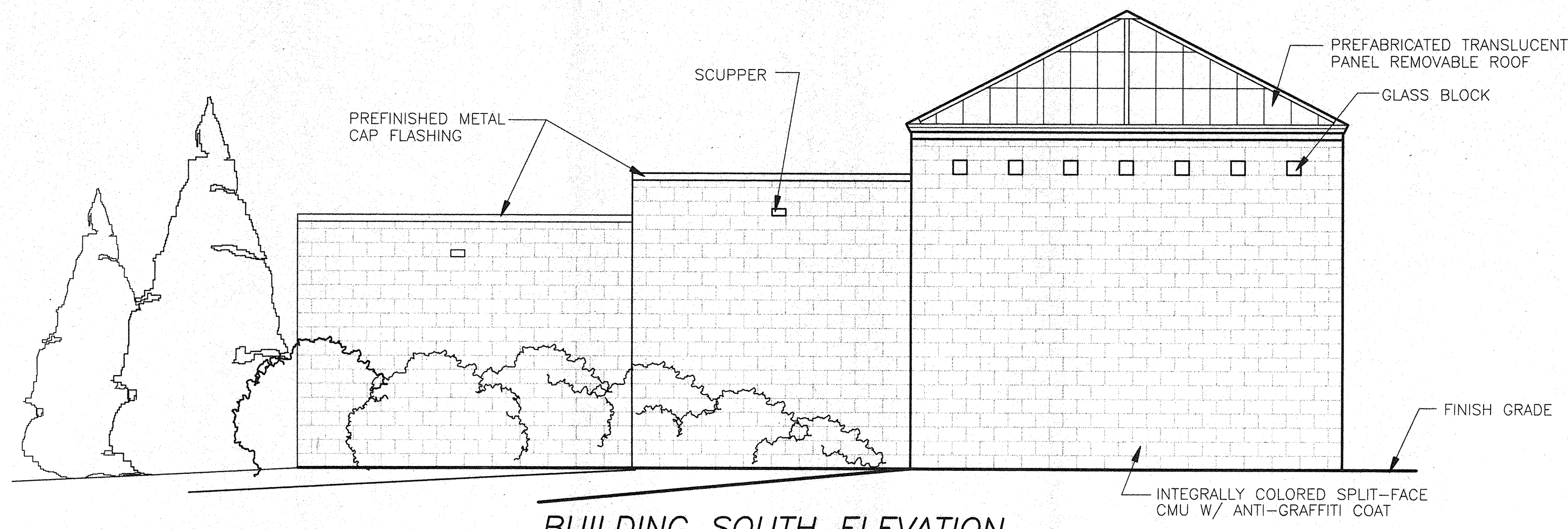
CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

TITLE: LOVE RESERVOIRS REPLACEMENT  
**LOVE RESERVOIR - SITE ELEVATIONS**

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.

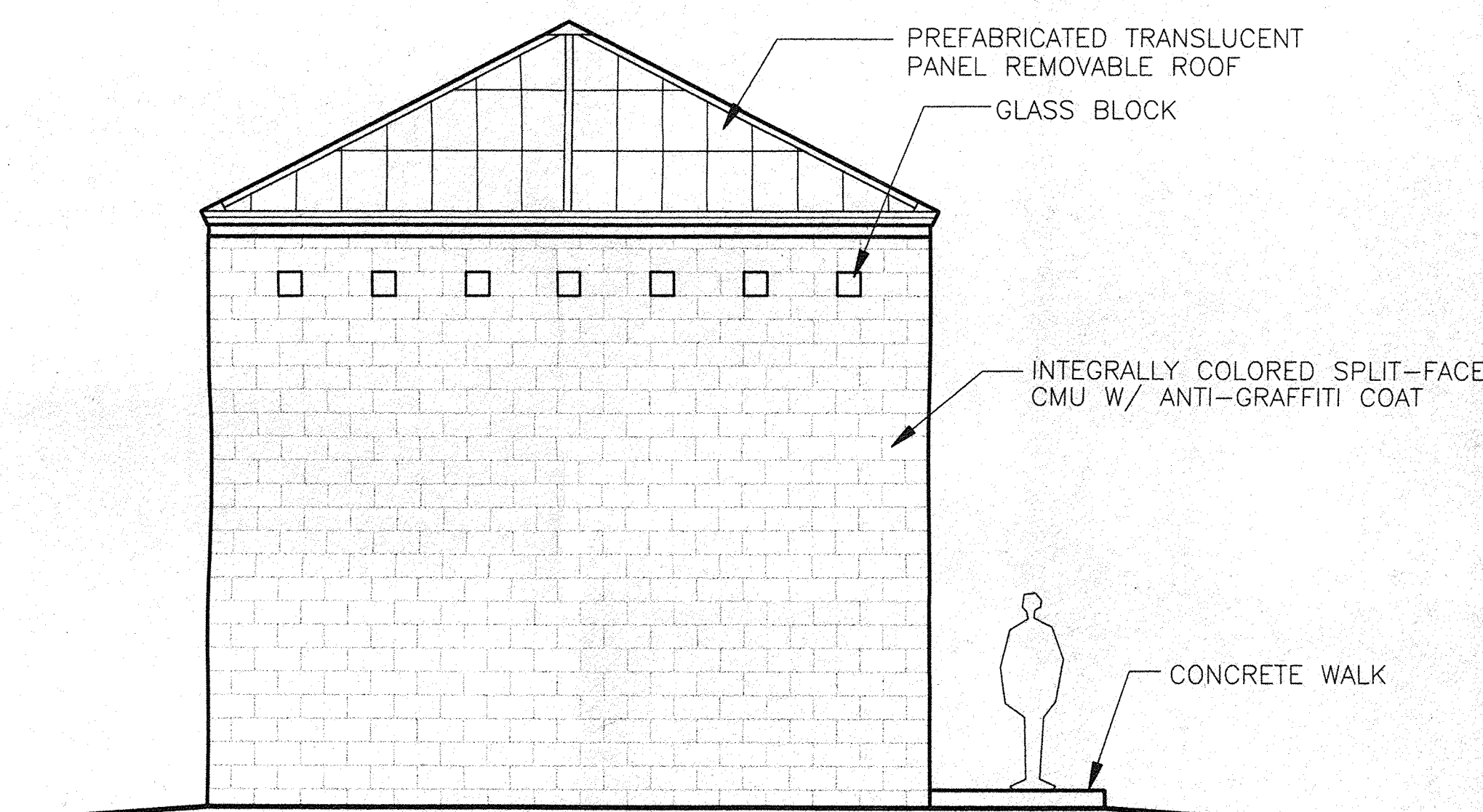
CITY PROJECT NO. Zone Map No. SHEET 5 OF 6  
J-21 DRAWING NO.





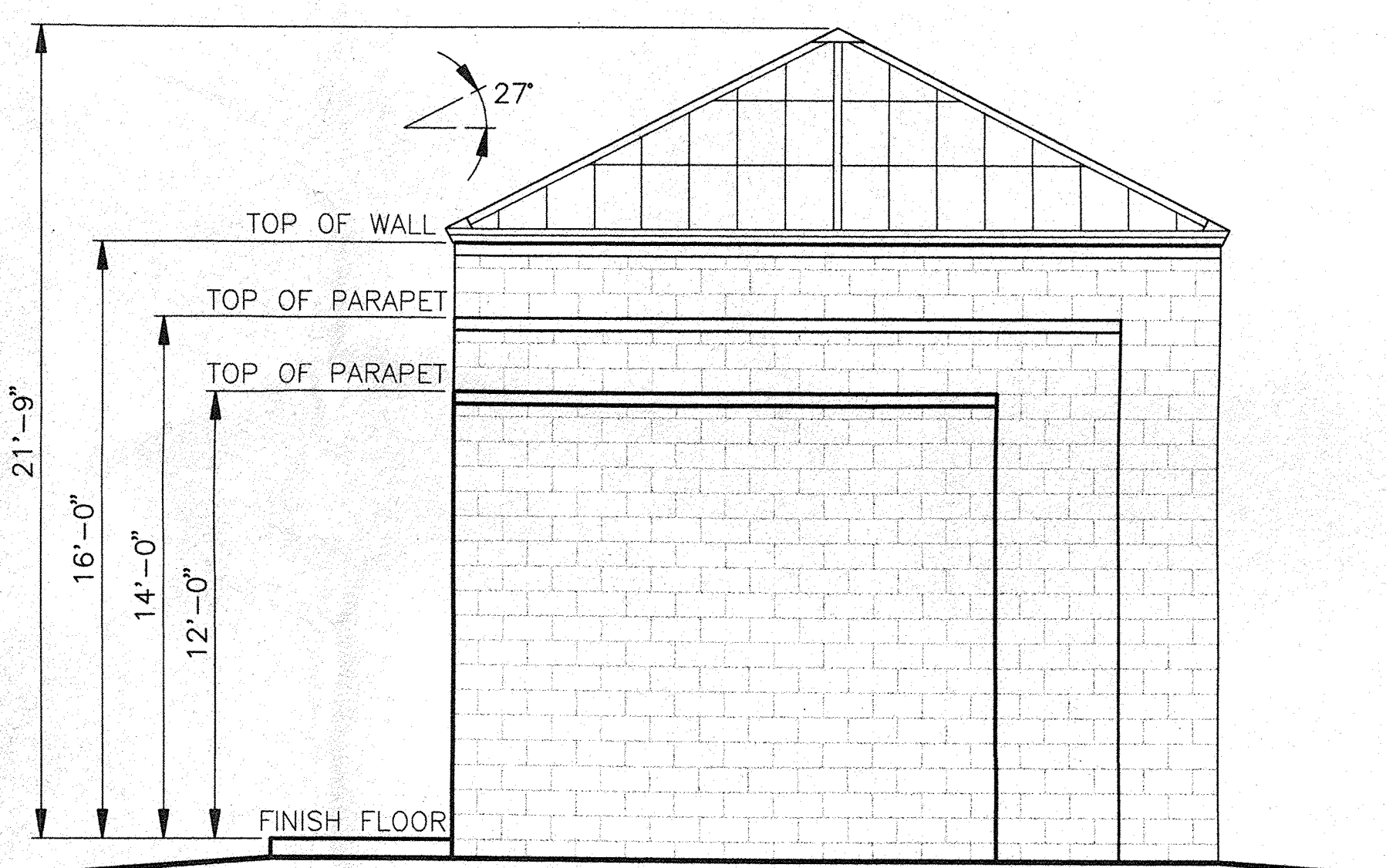
**BUILDING SOUTH ELEVATION**

SCALE: 1/4" = 1'-0"



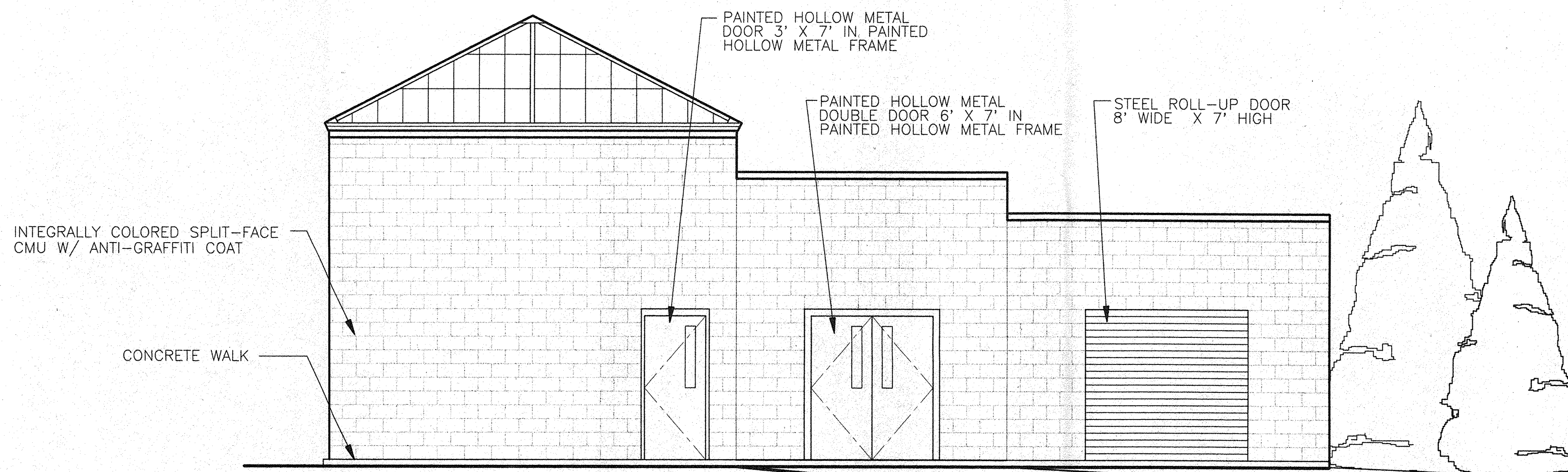
**BUILDING EAST ELEVATION**

SCALE: 1/4" = 1'-0"



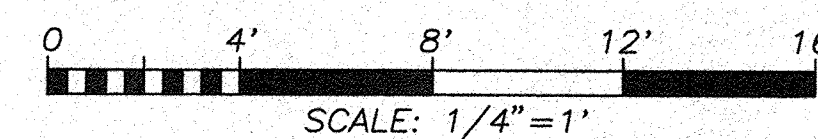
**BUILDING WEST ELEVATION**

SCALE: 1/4" = 1'-0"



**BUILDING NORTH ELEVATION**

SCALE: 1/4" = 1'-0"



MOLZEN-CORBIN & Associates

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

**CH2M HILL**  
 6001 Indian School Rd, N.E.  
 Suite 350  
 Albuquerque, New Mexico  
 87110  
 (505) 884-5600

CITY OF ALBUQUERQUE  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING DEVELOPMENT GROUP

TITLE: LOVE RESERVOIR REPLACEMENT  
**CHLORINATION/FLUORIDATION BUILDING ELEVATIONS**

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.

CITY PROJECT NO. Zone Map No. SHEET 6 OF 6  
 J-21 DRAWING NO.

AS BUILT INFORMATION

CONTRACTOR	DATE
INSPECTOR'S NAME	DATE
INSPECTOR'S FIELD CHANGE BY	DATE
VERIFICATION BY	DATE
CORRECTED BY	DATE
MICRO FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS

NO.	DATE

SURVEY INFORMATION

FIELD NOTES	DATE
NO.	
BY	

ENGINEER'S SEAL

REVISIONS	BY	DATE
DESIGN		7-31-97
		7-31-97