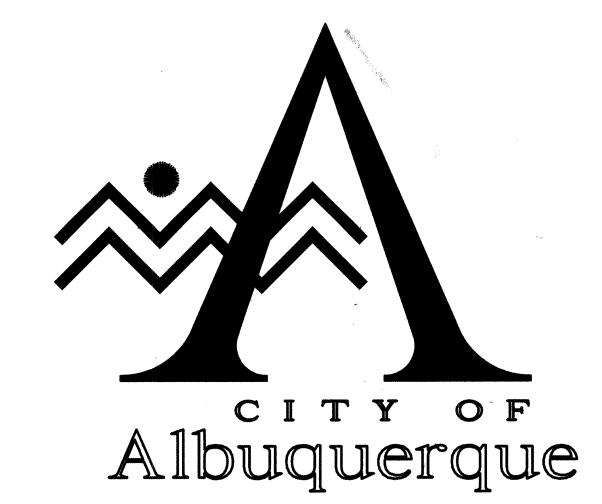
CITY OF ALBUQUERQUE

CHLORINE INJECTION VAULTS MODIFICATIONS

WATER SYSTEM REHABILITATION



INDEX OF DRAWINGS

٠	SHEET NO.	DRAWING NO.	TITLE OF SHEET
	1 2 3 4 5 6 7 8 △ 8A 9 10 11 12 △ 12A 13	G-1 C-2 C-3 C-4 C-5 C-6 C-7 C-8 M-1 M-2 M-3 M-4 M-5 S-1	TITLE SHEET ATRISCO AND DURANES-SITE PLANS LOMAS AND LOVE-SITE PLANS BURTON AND CHARLES WELLS-SITE PLANS LEYENDECKER AND PONDEROSA-SITE PLANS SANTA BARBARA AND VOL ANDIA-SITE PLANS RIDGECREST/CHARLES WELLS 5-SITE PLANS LOVE NO. 8 AND THOMAS NO. 5-SITE PLANS THOMAS AND WALKER - SITE PLANS MECHANICAL DETAILS MECHANICAL DETAILS MECHANICAL DETAILS MECHANICAL DETAILS WALKER FLUORIDE TANK DETAILS STRUCTURAL PLANS AND DETAILS
	*		

ABBREVIATIONS

© BRCP CI CPLA COPLA DI A EF EX ST EX ST FGAL X MB MHN	AT BEARING CONCRETE CYLINDER PIPE CAST IRON PIPE CENTERLINE CONTINUOUS COUPLING DIAMETER DUCTILE IRON PIPE EACH EACH FACE EACH WAY EXISTING FLANGE GALVANIZED ANGLE MAXIMUM MACHINE BOLT MANHOLE MINIMUM	NTS OC OD PJF PP RCP REQD SCH,SCHED SIM SST STL T&B TS TYP W W/Ø	NOT TO SCALE ON CENTER OUTSIDE DIAMETER PREMOLDED JOINT FILLER PLATE POWER POLE REINFORCED CONCRETE PIPI REQUIRED SCHEDULE SIMILAR STAINLESS STEEL STEEL TOP AND BOTTOM TUBE SHAPE TYPICAL WATER WITH DIAMETER
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LAYOUT PLAN LEGEND

FENCE LINE

GATE VALVE

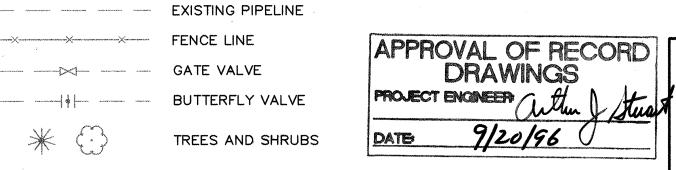
EXISTING STRUCTURE

PROPERTY LINE

RECORD DRAWINGS

Revisions Drawn by M. Brewer Date July 1996

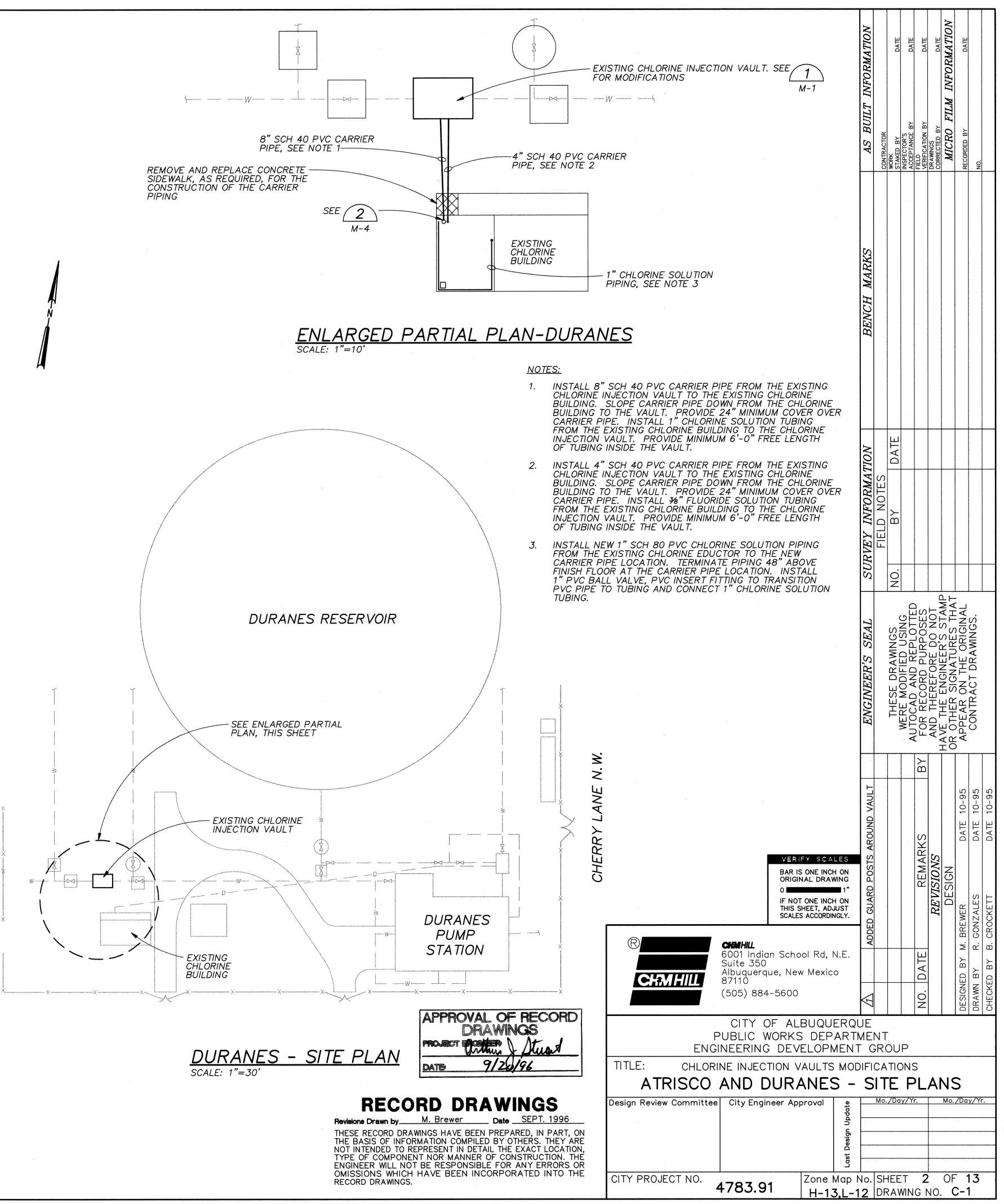
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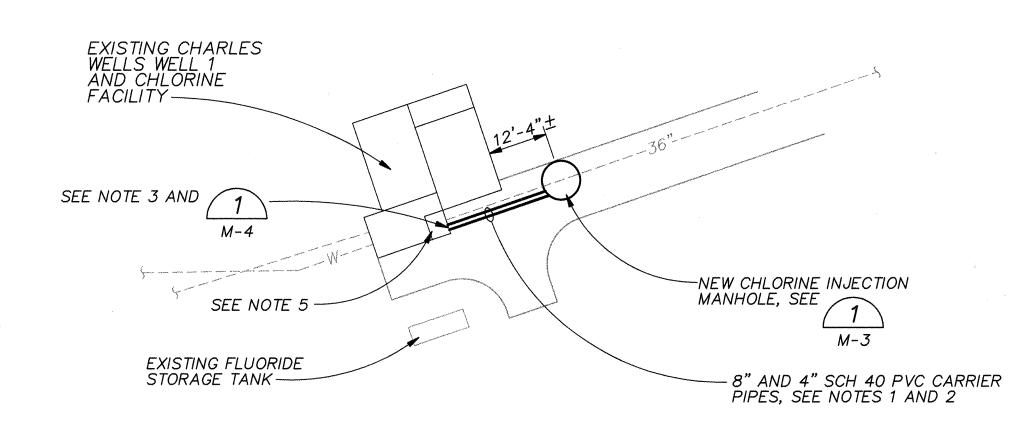
-WALKER PETROGLYPH PARK MONTANO ACADEMY VOL ANDIA -LEYENDECKER -THOMAS MONTGOMERY -PONDEROSA HOMAS⊸NO. 5 CANDELARIA BARBARA-CLAREMONT -DURANES CHARLES WELLS NO. 57 **ZICKERT** INDIAN SCHOOL LOVE NO. -LOVE LOMAS CENTRAL AVE ATRISCO--RIDGECREST **VICINITY MAP** SAN JOSE 131444A0\G001.DWG 9-3-96



BURTON - SITE PLAN

131444.A0

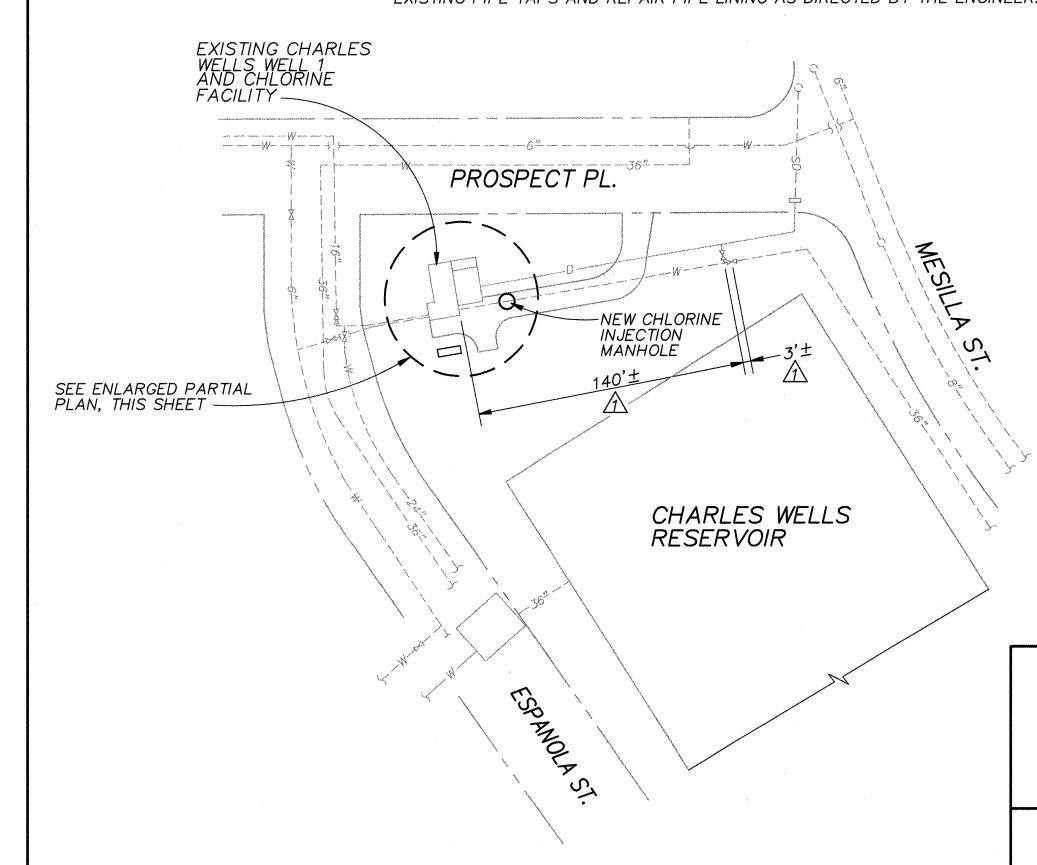
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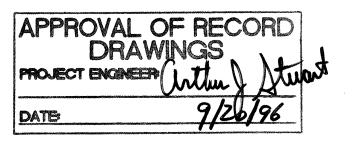
ENLARGED PARTIAL PLAN-CHARLES WELLS

NOTES:

- 1. INSTALL 8" SCH 40 PVC CARRIER PIPE FROM THE EXISTING CHLORINE BUILDING TO THE NEW CHLORINE INJECTION MANHOLE. SLOPE CARRIER PIPE DOWN FROM CHLORINE BUILDING TO THE MANHOLE. PROVIDE 24" MINIMUM COVER OVER CARRIER PIPE. INSTALL 1" CHLORINE SOLUTION TUBING FROM THE EXISTING CHLORINE BUILDING TO THE NEW CHLORINE INJECTION MANHOLE. PROVIDE MINIMUM 6'-0" FREE LENGTH OF TUBING INSIDE THE MANHOLE.
- 2. INSTALL 4" SCH 40 PVC CARRIER PIPE FROM THE EXISTING CHLORINE BUILDING TO THE NEW CHLORINE INJECTION MANHOLE. SLOPE CARRIER PIPE DOWN FROM CHLORINE BUILDING TO THE MANHOLE. PROVIDE 24" MINIMUM COVER OVER CARRIER PIPE. INSTALL 36" FLUORIDE SOLUTION TUBING FROM THE EXISTING CHLORINE BUILDING TO THE NEW CHLORINE INJECTION MANHOLE. PROVIDE MINIMUM 6'-0" FREE LENGTH OF TUBING INSIDE THE MANHOLE.
- 3. CONNECT NEW 1" CHLORINE SOLUTION TUBING TO EXISTING 1" CHLORINE SOLUTION PIPING INSIDE THE CHLORINE BUILDING. CONNECT NEW 36" FLUORIDE SOLUTION TUBING TO THE EXISTING FLUORIDE METERING PUMP INSIDE THE CHLORINE BUILDING. PROVIDE PVC INSERT FITTING TO TRANSITION FROM PVC PIPE TO TUBING AS REQUIRED.
- 4. REPLACE ASPHALT PAVEMENT DISTURBED BY THE CONSTRUCTION OF THE CHLORINE INJECTION MANHOLE AND CARRIER PIPING.
- 5. REMOVE EXISTING PROPELLER METER ELEMENT AND INSTALL BLIND FLANGE. PLUG EXISTING PIPE TAPS AND REPAIR PIPE LINING AS DIRECTED BY THE ENGINEER.



CHARLES WELLS - SITE PLAN



RECORD DRAWINGS

Revisions Drawn by M. Brewer Date SEPT. 1996

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BAR IS ONE INCH ON

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: CHLORINE INJECTION VAULTS MODIFICATIONS

BURTON AND CHARLES WELLS - SITE PLANS

BUNTON AND	CHANLES WE	\	3 - 3116	PLANS
Design Review Committee	City Engineer Approval	· o	Mo./Day/Yr.	Mo./Day/Yr.
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CITY PROJECT NO.	7one	Map N	No. SHEET 4	4 OF 13

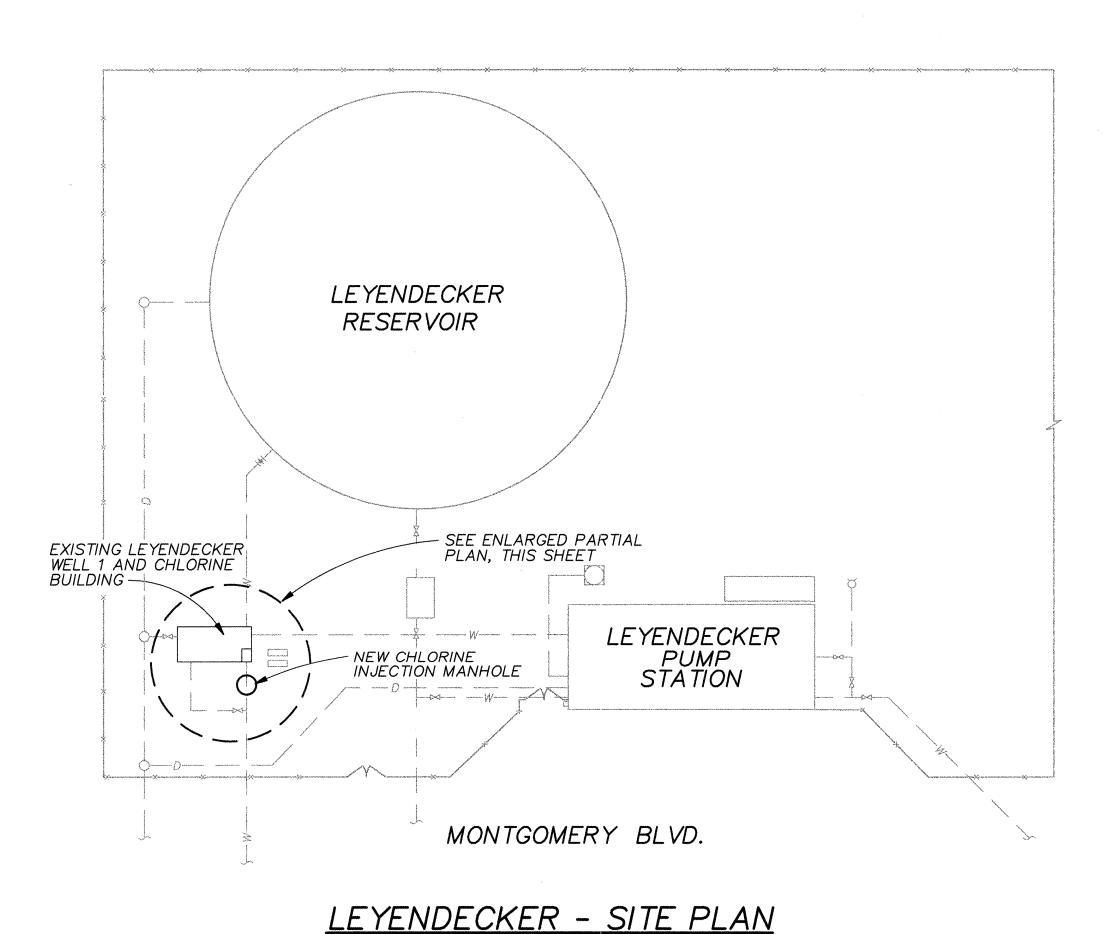
CITY PROJECT NO. **4783.91**

Zone Map No. SHEET 4 OF 13 H-19,L-16 DRAWING NO. C-3

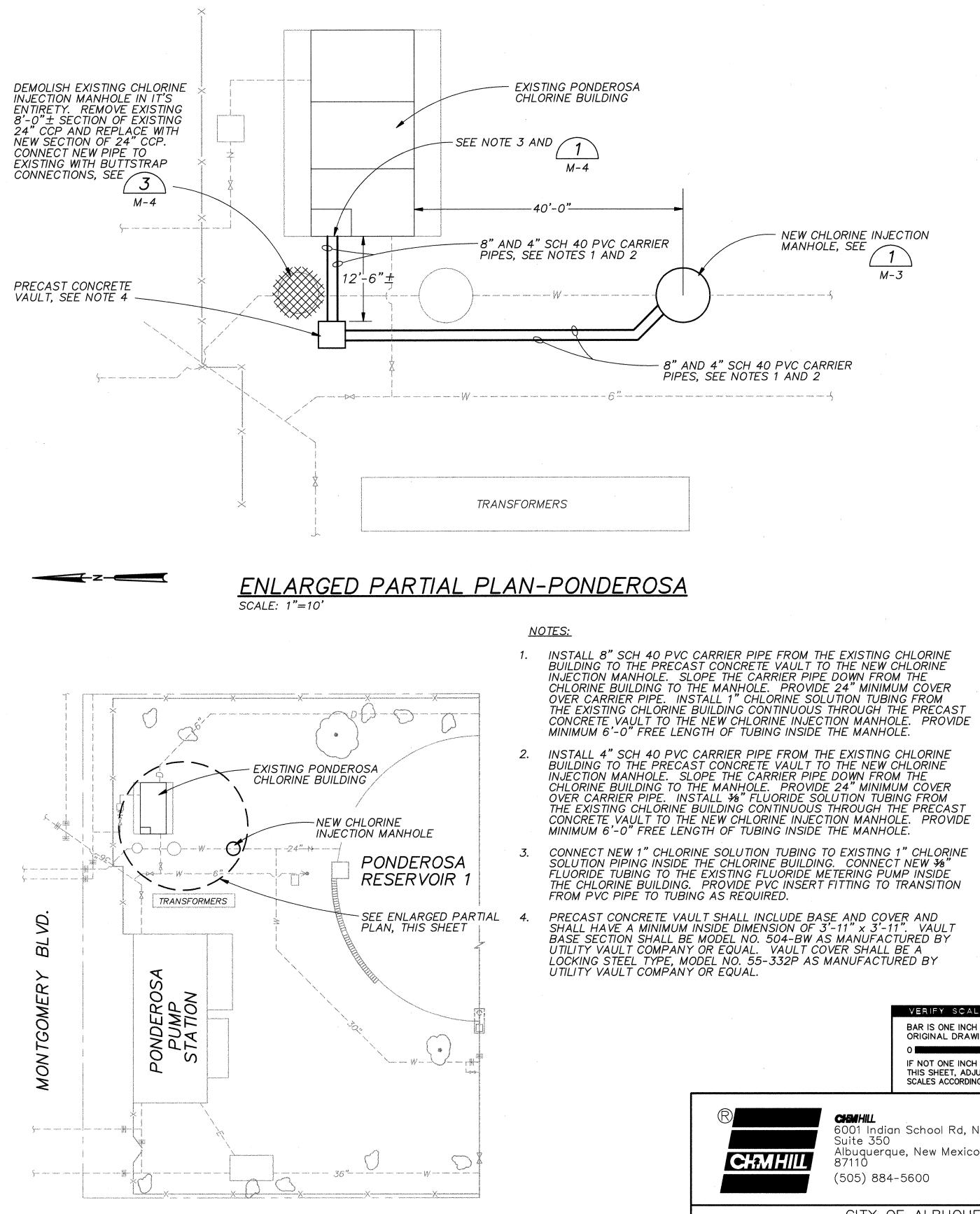
ENLARGED PARTIAL PLAN-LEYENDECKER SCALE: 1"=10'

NOTES:

- 1. INSTALL 8" SCH 40 PVC CARRIER PIPE FROM THE EXISTING CHLORINE BUILDING TO THE NEW CHLORINE INJECTION MANHOLE. SLOPE THE CARRIER PIPE DOWN FROM CHLORINE BUILDING TO THE MANHOLE. PROVIDE 24" MINIMUM COVER OVER CARRIER PIPE. INSTALL 1" CHLORINE SOLUTION TUBING FROM THE EXISTING CHLORINE BUILDING TO THE NEW CHLORINE INJECTION MANHOLE. PROVIDE MINIMUM 6'-0" FREE LENGTH OF TUBING INSIDE THE MANHOLE.
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SCALE: 1"=40'



PONDEROSA - SITE PLAN

APPROVAL OF RECORD DRAWINGS PROJECT ENGNEERY, H.

RECORD DRAWINGS

Revisions Drawn by M. Brewer Date SEPT. 1996 THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

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60 Su All 87	MHIL 01 Indian School Rd, N.E. ite 350 ouquerque, New Mexico 110 05) 884-5600		NO. DATE			DESIGNED BY M. BR	DRAWN BY R GO
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PUBLIC WORKS DEPARTMENT

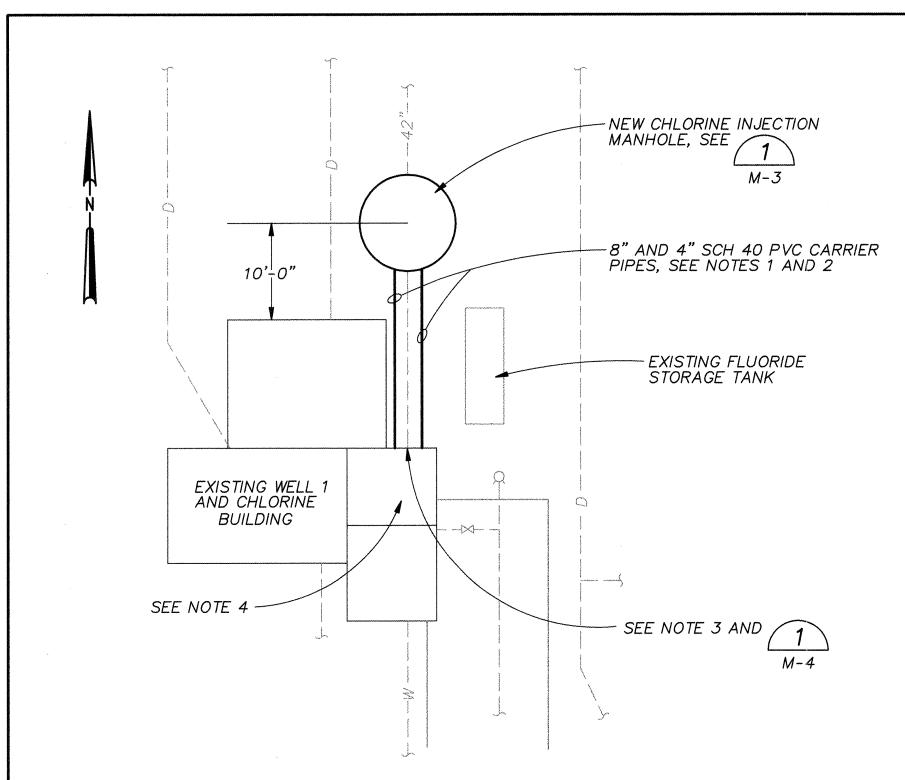
ENGINEERING DEVELOPMENT GROUP CHLORINE INJECTION VAULTS MODIFICATIONS

M-3

FYENDECKER AND PONDEROSA-SITE PLANS

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sign Review Committee	City Engineer	Approval	Design Update	Mo./Day/Yr.	Mo./Day/Yr.	-
			Last			_
TY PROJECT NO.	4783.91			No. SHEET 21 DRAWING		•

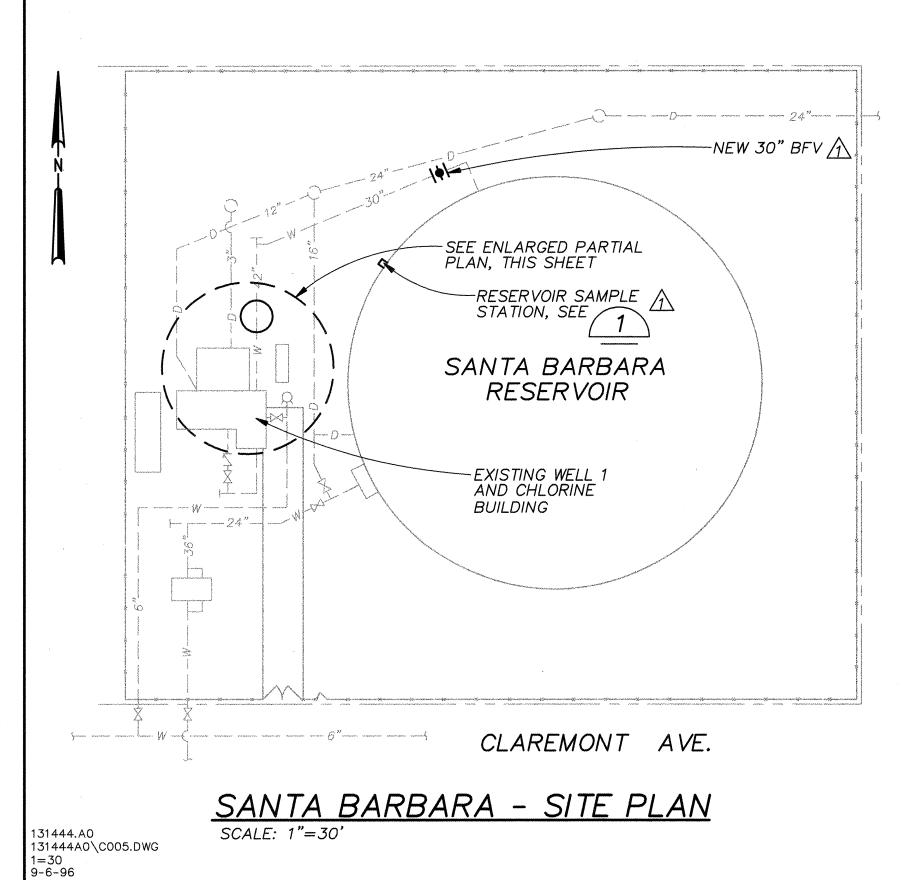
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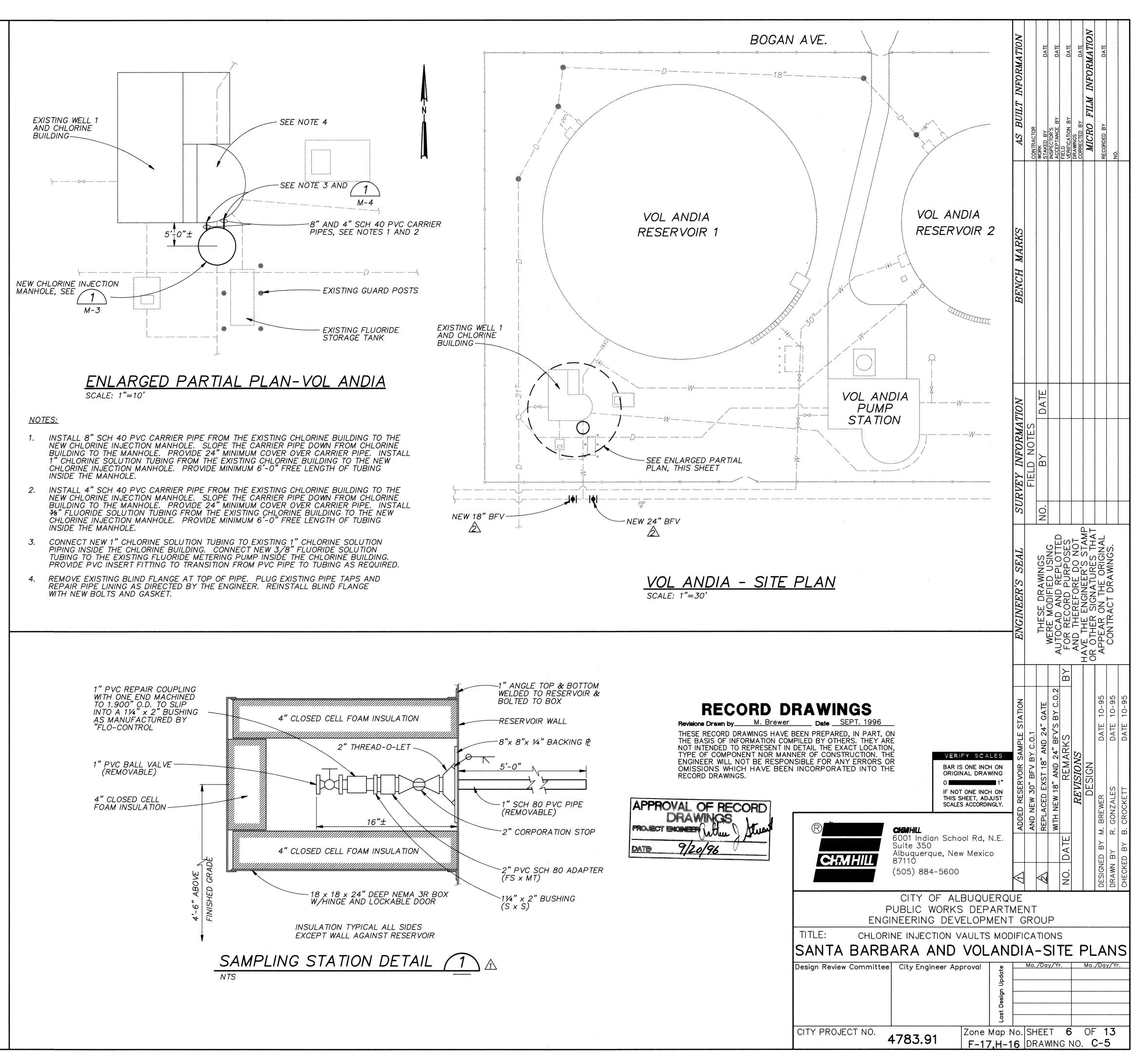


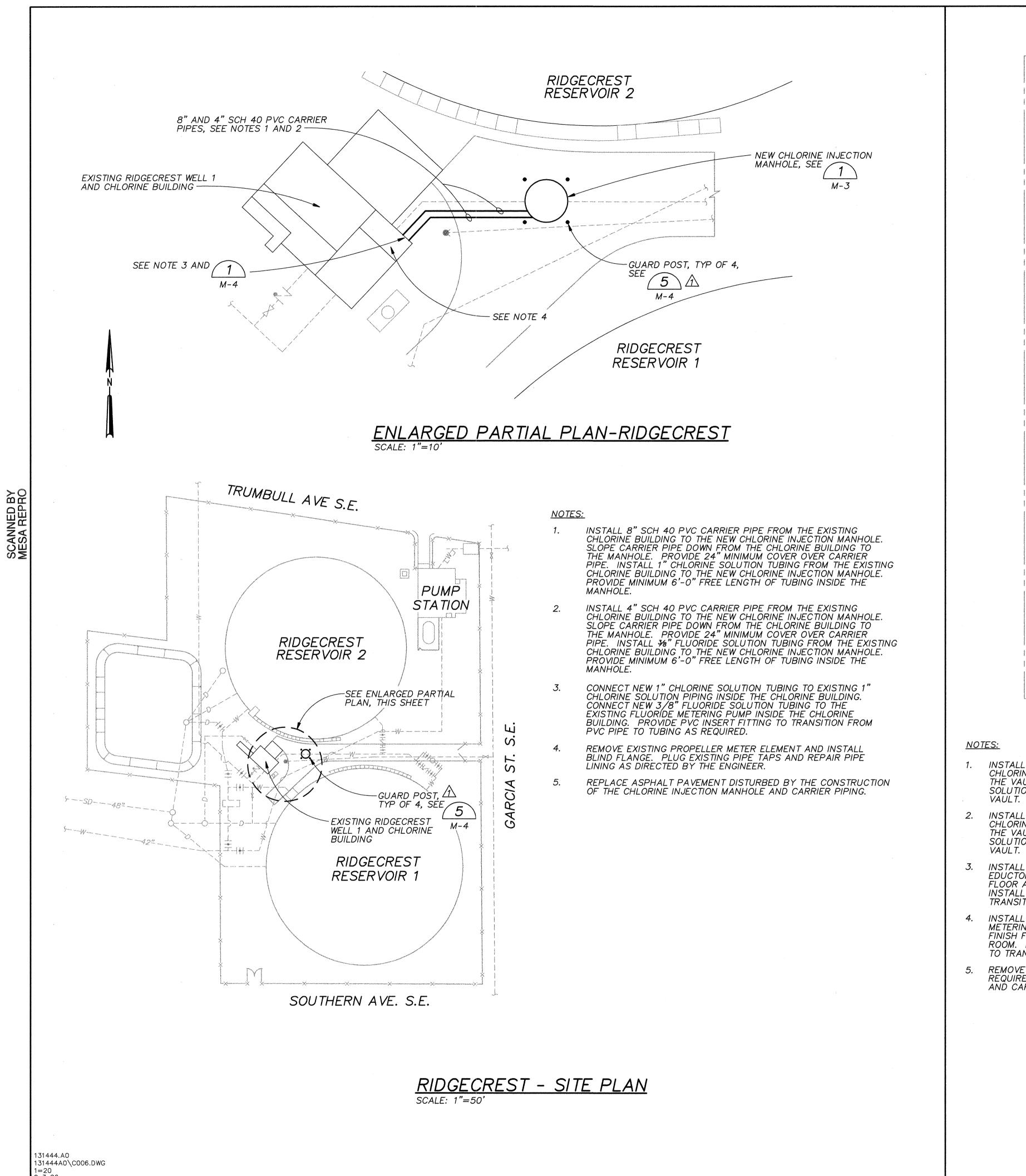
ENLARGED PARTIAL PLAN-SANTA BARBARA SCALE: 1"=10"

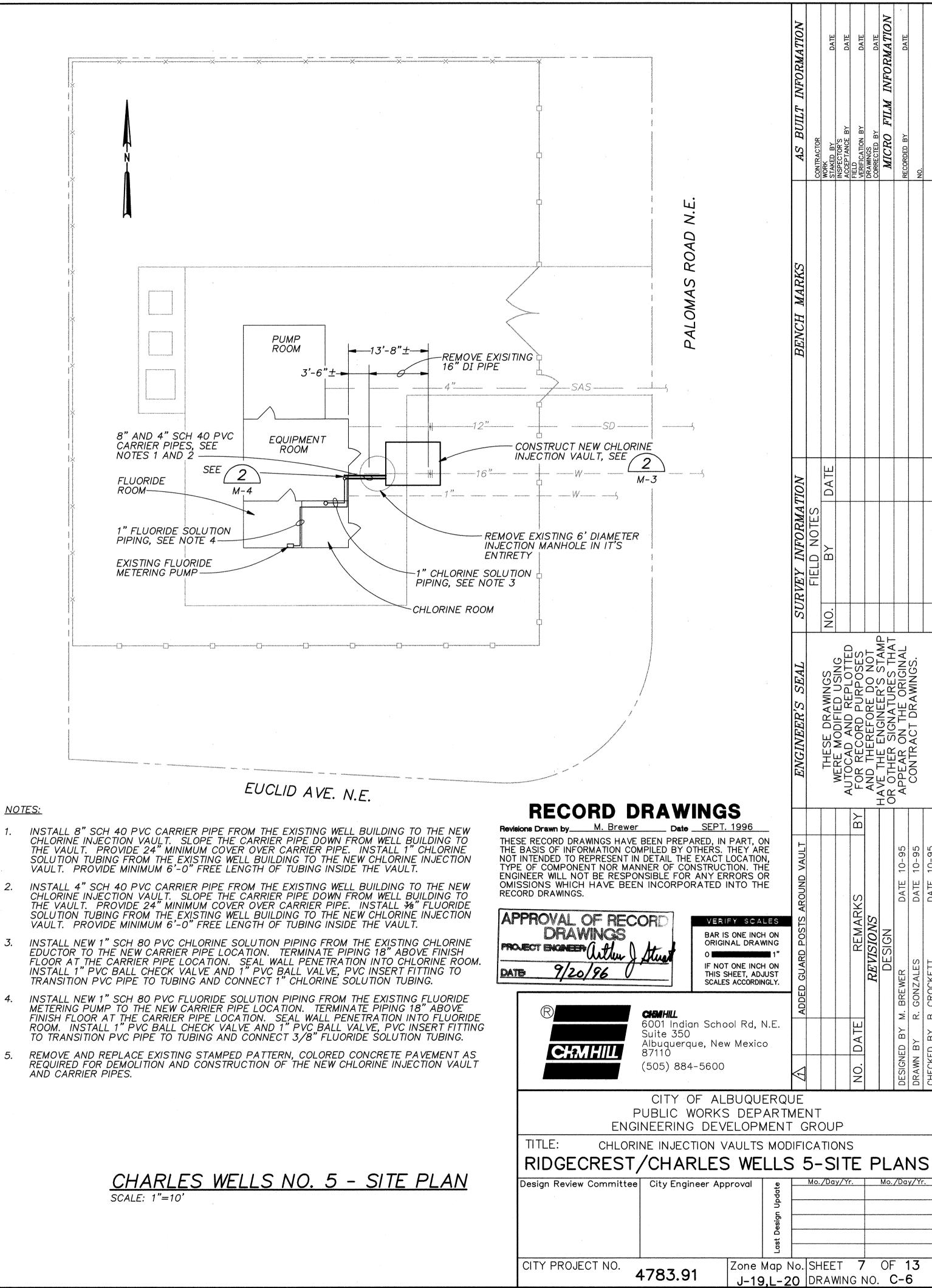
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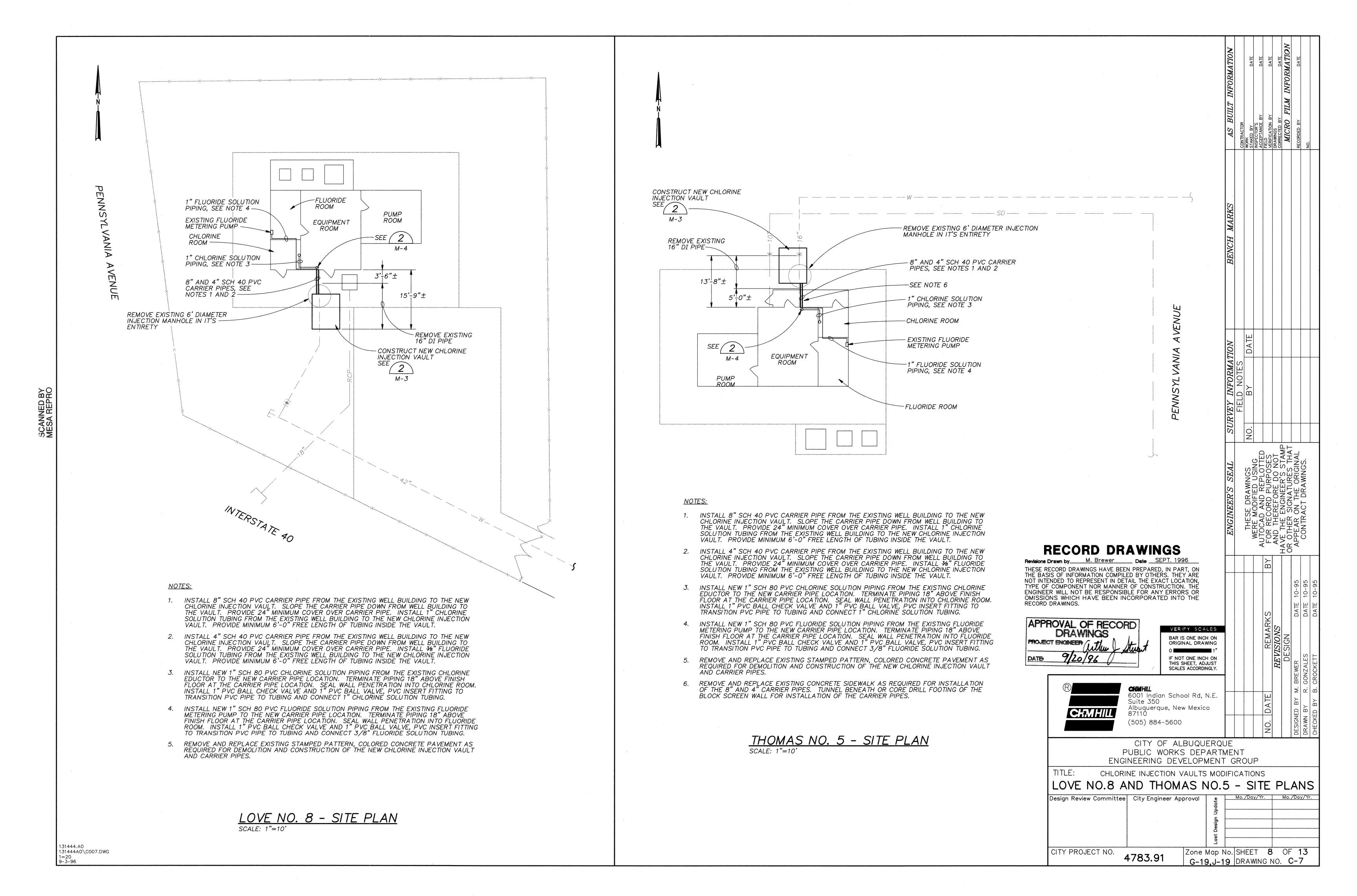
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- 4. REMOVE EXISTING PROPELLER METER ELEMENT AND INSTALL BLIND FLANGE. PLUG EXISTING PIPE TAPS AND REPAIR PIPE LINING AS DIRECTED BY THE ENGINEER.

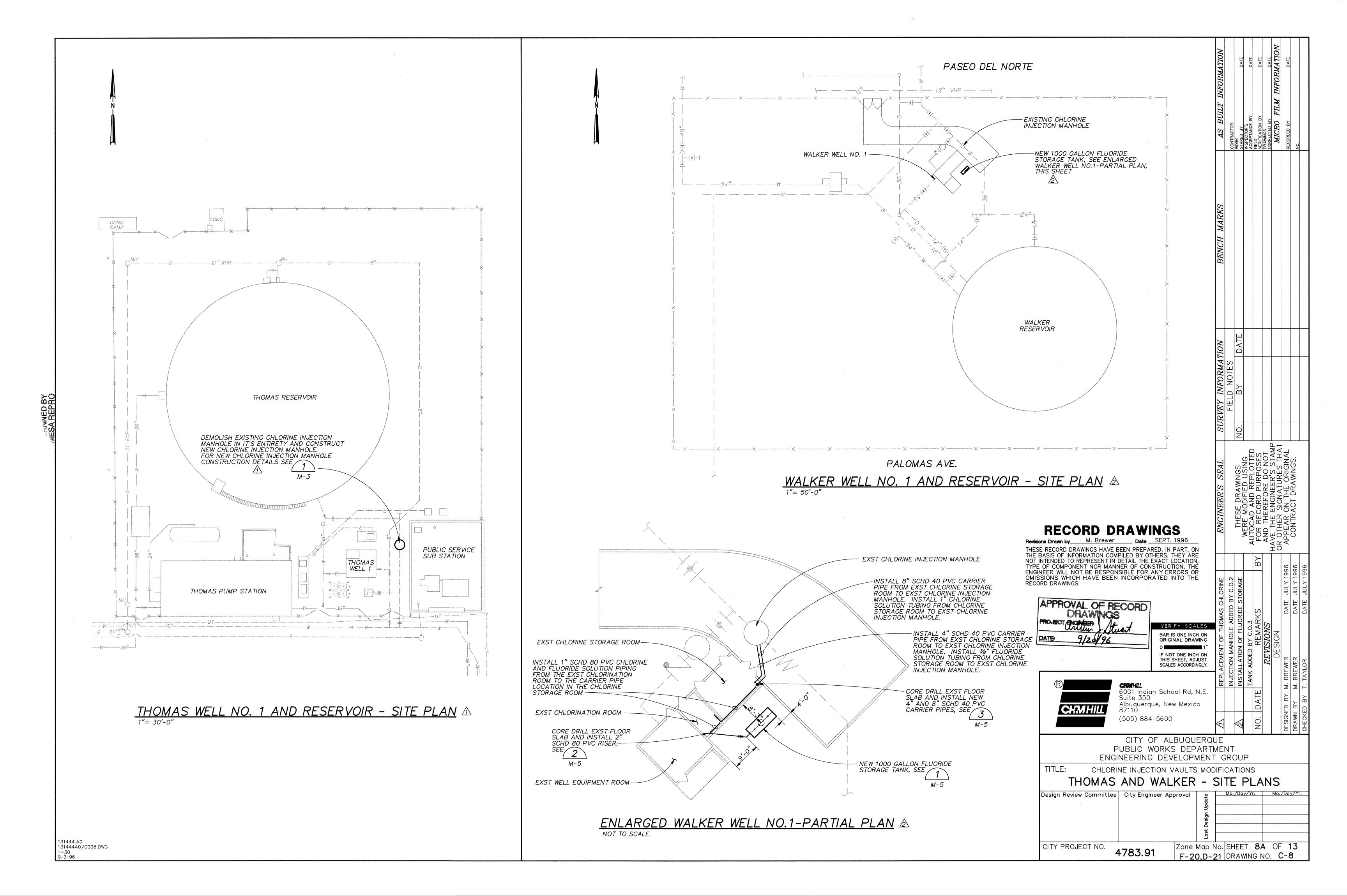


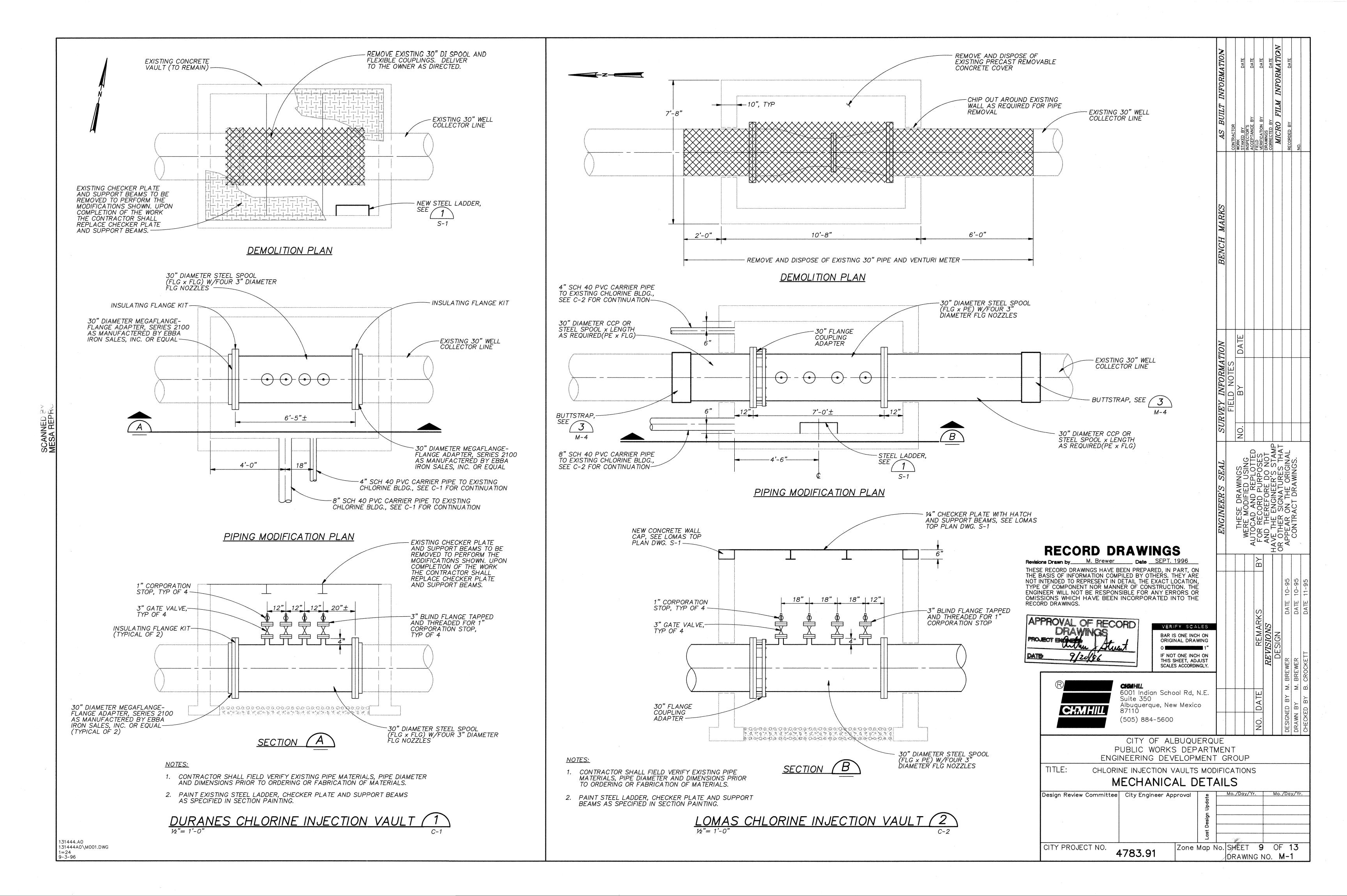


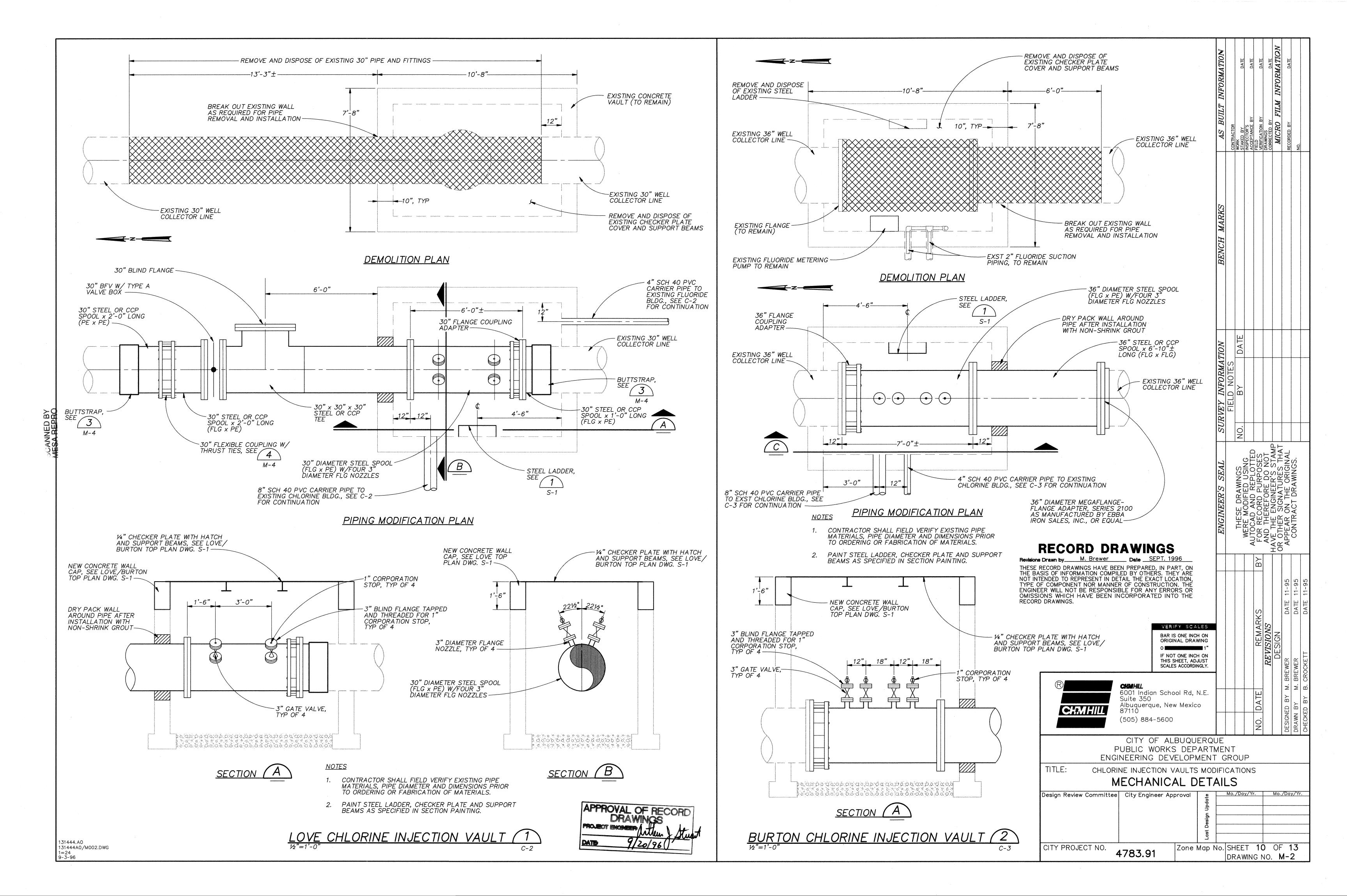


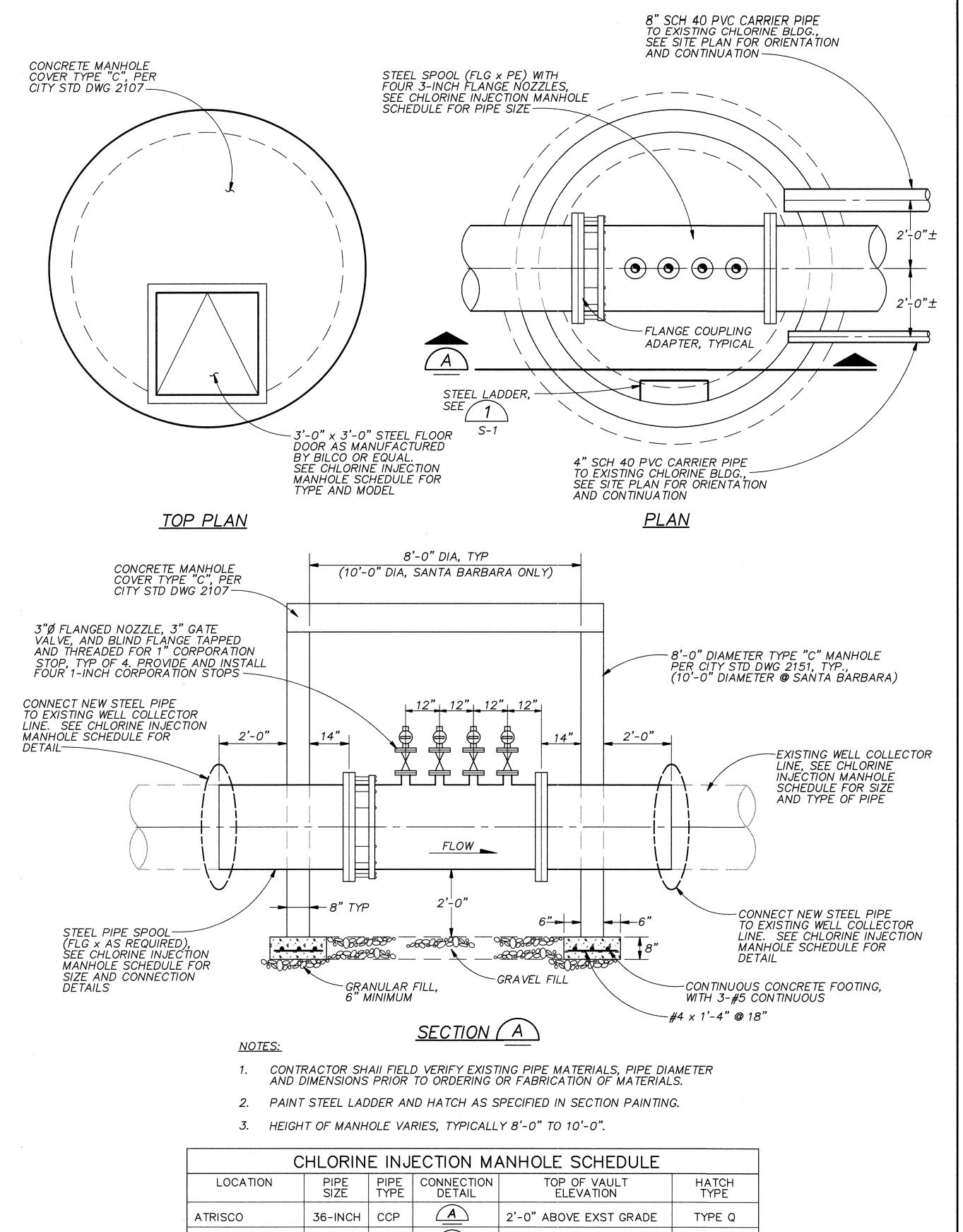












CHLORINE INJECTION MANHOLE SCHEDULE							
LOCATION	PIPE SIZE	PIPE TYPE	CONNECTION DETAIL	TOP OF VAULT ELEVATION	HATCH TYPE		
 ATRISCO	36-INCH	CCP	A	2'-0" ABOVE EXST GRADE	TYPE Q		
CHARLES WELLS	36-INCH	DI	B	MATCH EXISTING GRADE	TYPE J H-20		
LEYENDECKER	24-INCH	CCP	A	3'-0" ABOVE EXST GRADE	TYPE Q		
PONDEROSA	30-INCH	CCP	A	MATCH EXISTING GRADE	TYPE J H-20		
SANTA BARBARA	42-INCH	CCP	A	12" ABOVE EXISTING GRADE	TYPE J H-20		
VOL ANDIA	36-INCH	CCP	A A	3'-0" ABOVE EXST GRADE	TYPE Q		
RIDGECREST	36-INCH	CCP	A	2'-0" ABOVE EXST GRADE	TYPE J H-20		
THOMAS	36-INCH	CCP	A	MATCH EXISTING GRADE	TYPE J H-20		

CHLORINE INJECTION MANHOLE 1

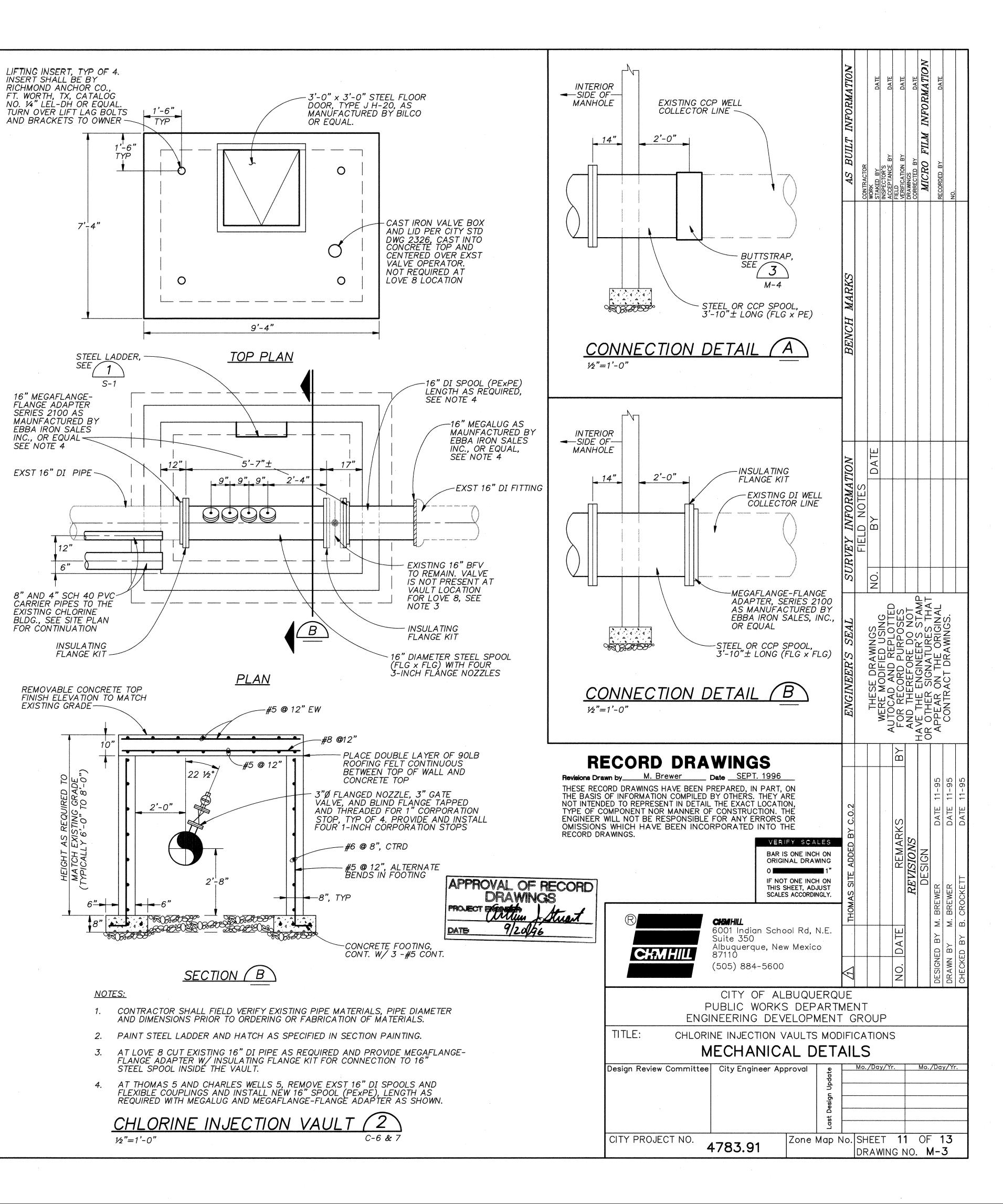
20"=1'-0"

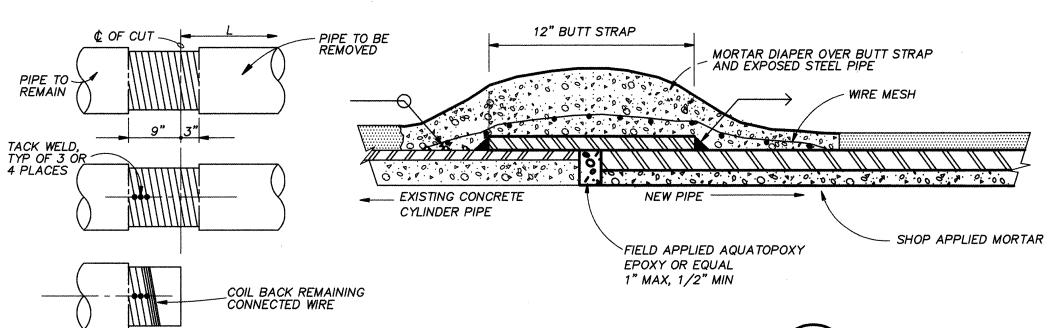
C-3,4,5,6&8

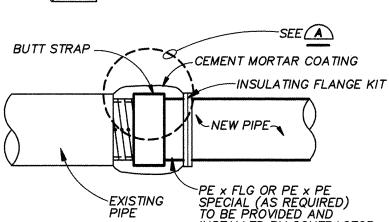
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BUTTSTRAP SEQUENCE:

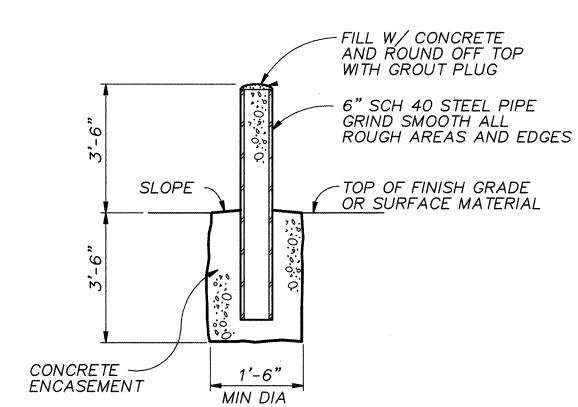
1. DETERMINE LENGTH "L" OF PIPE TO BE REMOVED AND MARK ON PIPE.

INSTALLED BY CONTRACTOR

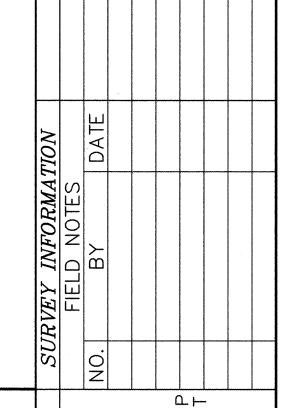
- 2. CAUTIOUSLY CHIP OFF THE COATING 9" FROM THE MARKED POINT OF PIPE TO REMAIN, THEN CHIP OFF THE COATING OF THE PORTION OF PIPE TO BE REMOVED 3" FROM THE MARKED POINT.
- 3. MARK THE CUT LOCATION ON THE EXPOSED WIRE WRAPPED CYLINDER.
- 4. TACK WELD EXPOSED WIRE ALONG A HORIZONTAL LINE ON THREE OR FOUR CIRCUMFERENTIAL WRAPS OF THE PIPE TO REMAIN 6" IN FROM THE CUT MARK.

BUTTSTRAP SEQUENCE (CONTINUED):

- 5. CUT CYLINDER AND WIRE WRAP ALONG MARK AND REMOVE PIPE AND ANY WIRE NOT STILL CONNECTED TO THE REMAINING CYLINDER WRAP.
- 6. COIL BACK PORTION OF UNTACKED WIRE WRAP.
- 7. PLACE NEW CONNECTING PIPE AND INSTALL BOTTOM HALF OF 12" BUTT STRAP AND WELD.
- 8. EPOXY LINE THE INSIDE BOTTOM OF THE BUTT STRAP.
- 9. PLACE THE TOP HALF OF THE BUTT STRAP ON THE PIPE AND WELD.
- 10. EPOXY LINE THE TOP HALF OF THE BUTT STRAP.
- 11. PULL TAUGHT THE REMAINING WIRE WRAP (STEP 6) BACK TO WITHIN 1" OF BUTT STRAP OVERLAP AND TACK WELD.
- 12. PLACE CEMENT MORTAR COATING OVER BUTT STRAP AND EXPOSED WIRE WRAPPED CLINDER IN ACCORDANCE WITH AWWA C303 USING 2 X 4 X 13 GA WELDED WIRE FABRIC HELD 3/8" FROM THE STEEL.





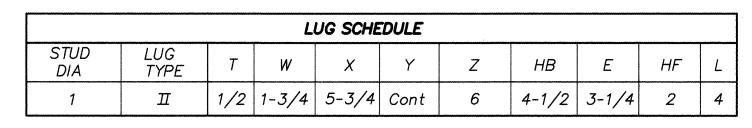


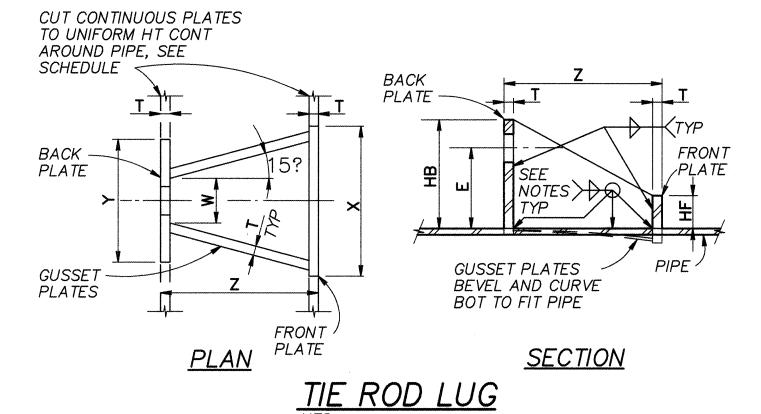
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CONTRACT DRAWINGS

REMARKS
REVISIONS
DESIGN

DRAWING NO. M-4

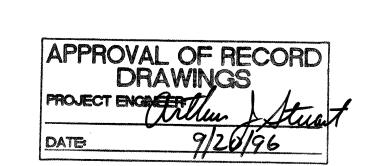
BUTTSTRAP DETAIL (3)





GRADE B7.

- 1. LUG SCHEDULE DIMENSIONS IN INCHES. TIE RODS SHALL CONFORM TO ASTM A193
- 3. NUTS SHALL CONFORM TO ASTM A194
- 4. PLATE SHALL CONFORM TO ASTM A283 GRADE D.
- 5. TIE ROD NUTS SHALL BE TIGHTENED GRADUALLY AND EQUALLY IN STAGES TO PREVENT UNEVEN ALIGNMENT AND TO ALLOW EQUAL STRESS ON ALL TIE RODS UNDER PRESSURE. TIGHTEN UNTIL SNUG. THREADS SHALL PROTRUDE FROM NUTS. PEEN THREADS AFTER TIGHTENING NUTS.
- TIE ROD LUGS SHALL BE SPACED EQUALLY AROUND PIPE.
- FILLET WELDS SHALL MEET THE MINIMUM REQUIREMENTS OF THE AISC SPECIFICATION EXCEPT AS FOLLOW: FILLET WELDS SHALL BE 14-INCH MINIMUM EXCEPT WHEN WELDING 3/16-INCH PLATE WHERE THEY SHALL BE *₹*16−INCH.
- 8. LUG TYPE I IS AS SHOWN IN DETAIL. LUG TYPE II HAS A CONTINUOUS BACK PLATE AROUND PIPE.
- 9. FOR ALL BURIED ASSEMBLIES, COAT ALL TIE RODS, AND EXPOSED STEEL WITH 16 MILS OF BITUMASTIC.



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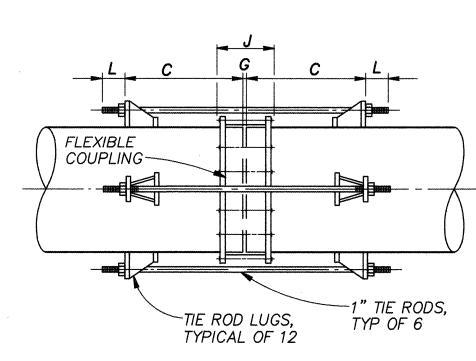
CHEMHILL 6001 Indian School Rd, N.E. Suite 350 Albuquerque, New Mexico 87110 (505) 884-5600

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT

ENGINEERING DEVELOPMENT GROUP CHLORINE INJECTION VAULTS MODIFICATIONS

MECHANICAL DETAILS Design Review Committee | City Engineer Approval

CITY PROJECT NO. Zone Map No. SHEET 12 OF 13 4783.91



NOTES:

- 1. THE MIDDLE RING LENGTH OF THE FLEXIBLE COUPLING SHALL BE AS SPECIFIED.
- 2. THE CONTRACTOR SHALL DETERMINE THE LENGTH
 "." (COUPLING BOLT LENGTH) FROM MANUFACTURE (COUPLING BOLT LENGTH) FROM MANUFACTURER'S CATÀLOGS USÍNG THE SPECIFÍED MIDDLE RING LENGTH.
- 3. "G" = MANUFACTURER'S RECOMMENDED SPACE BETWEEN ENDS OF PIPE. 4. "C" = J+Z+1 INCH, (ROUND THIS VALUE UP TO NEXT EVEN
- INCH), MINIMUM. (FÒR Z DIMENSIONS, SEE LUG SCHEDULE.)
- 5. TIE ROD LENGTH = 2L+2C+G.

THRUST TIE DETAIL FOR STEEL PIPE 4

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EXISTING CONCRETE

8" AND 4" SCHD 40

PVC 90° ELBOW, TYP

EXISTING CONCRETE FOOTING

DRY PACK WALL PENETRATION AROUND CARRIER PIPE WITH

NON-SHRINK GROUT

FLOOR SLAB -

CHIP CONCRETE ON 45° ANGLE, ROUGHEN TO 1/4"

AMPLITUDE AND CLEAN

NOTES:

NON-SHRINK GROUT_

1. SLOPE CARRIER PIPE DOWN FROM CHLORINE BUILDING TO CHLORINE INJECTION VAULT OR MANHOLE.

SEE SITE PLANS FOR LOCATION OF PIPE PENETRATION INTO BUILDING, VAULTS AND GENERAL ROUTING.

NEW 8" AND 4" SCHD 40 PVC CARRIER PIPES FROM CHLORINE

INJECTION VAULT, SEE SITE

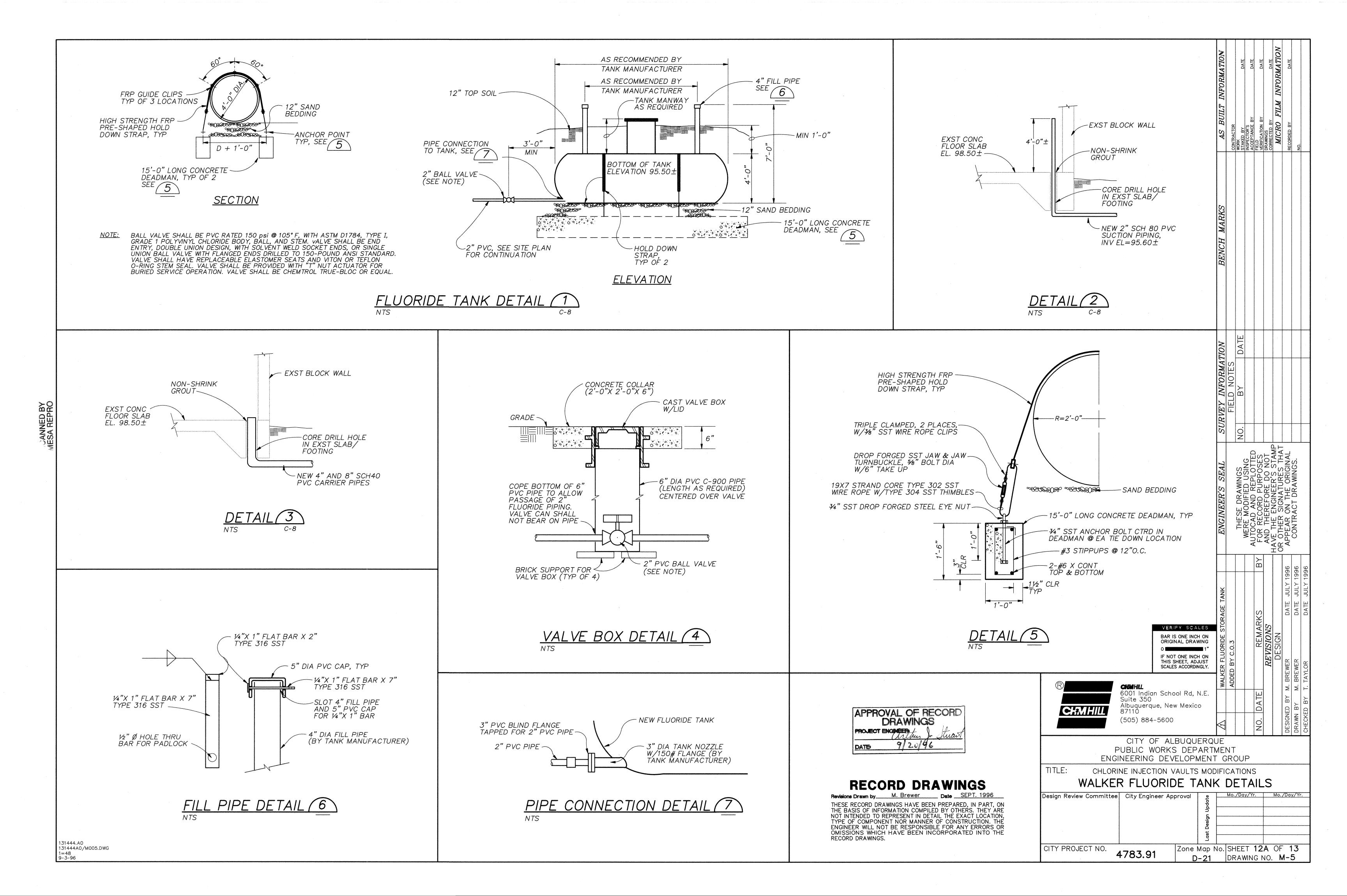
PLANS FOR CONTINUATION

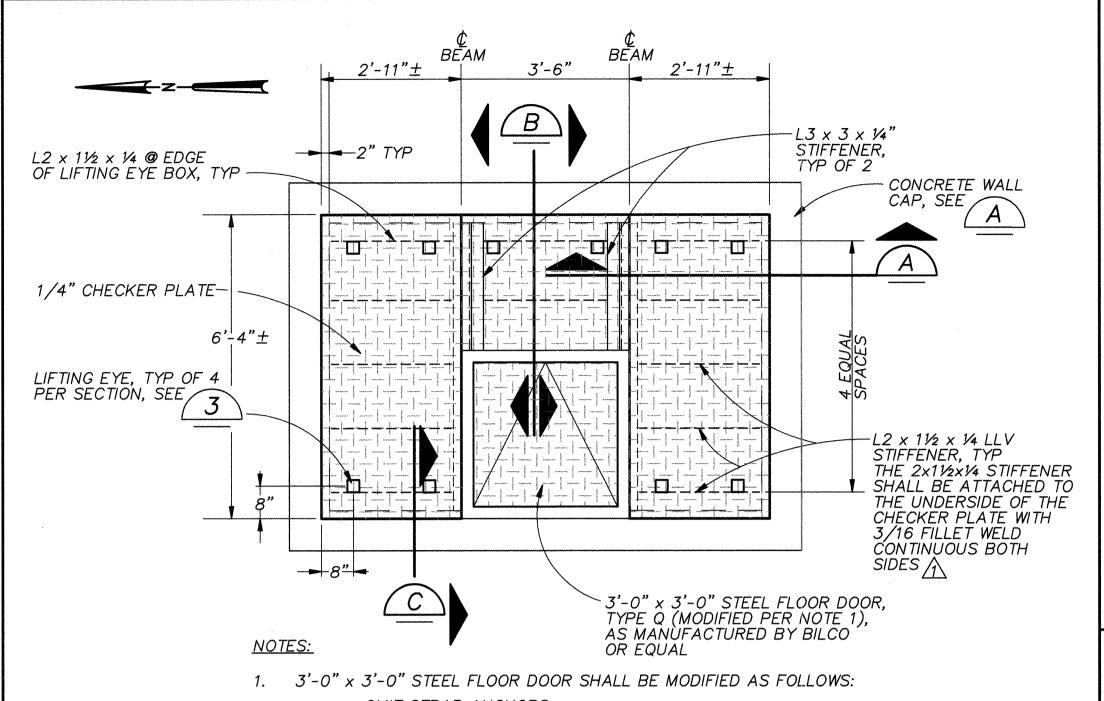
CORE DRILL EXISTING WALL

-EXST CONCRETE WALL

FOR NEW CARRIER PIPES,

PIPE 0D + 2"





HATCH COVER FLOOR DOOR AS SPECIFIED

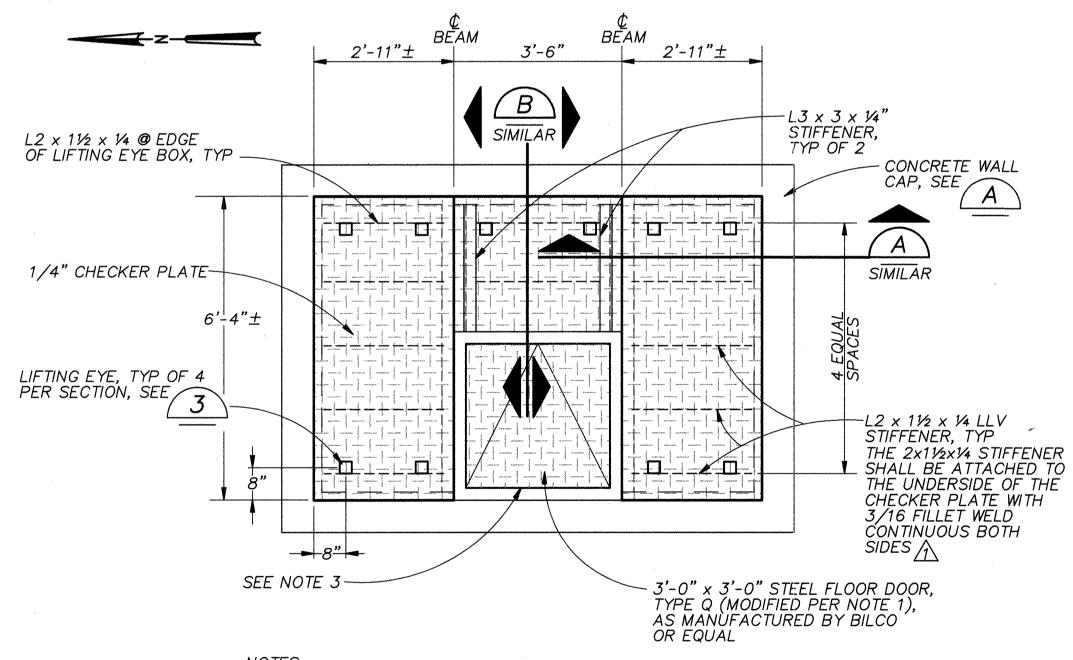
EQUALLY SPACED @ 1'-0" OC MAX

PROVIDE ADDITIONAL

DIAGONAL/BRACKETS

- OMIT STRAP ANCHORS
- COPE ANGLE FRAME CORNERS WELD L3"x 3"x 1/4" TO HINGE SIDE OF FRAME SO THAT TOP LEG OF THE ANGLE IS 1/4" BELOW TOP OF ANGLE FRAME
- FINISH PAINT CHECKER PLATE, STRUCTURAL STEEL SUPPORTS, LADDER AND FLOOR AS SPECIFIED UNDER SECTION PAINTING.
- CONTRACTOR SHALL FIELD VERIFY DIMENSIONS OF EXISTING CONCRETE VAULT PRIOR TO ORDERING OR FABRICATION OF MATERIALS.

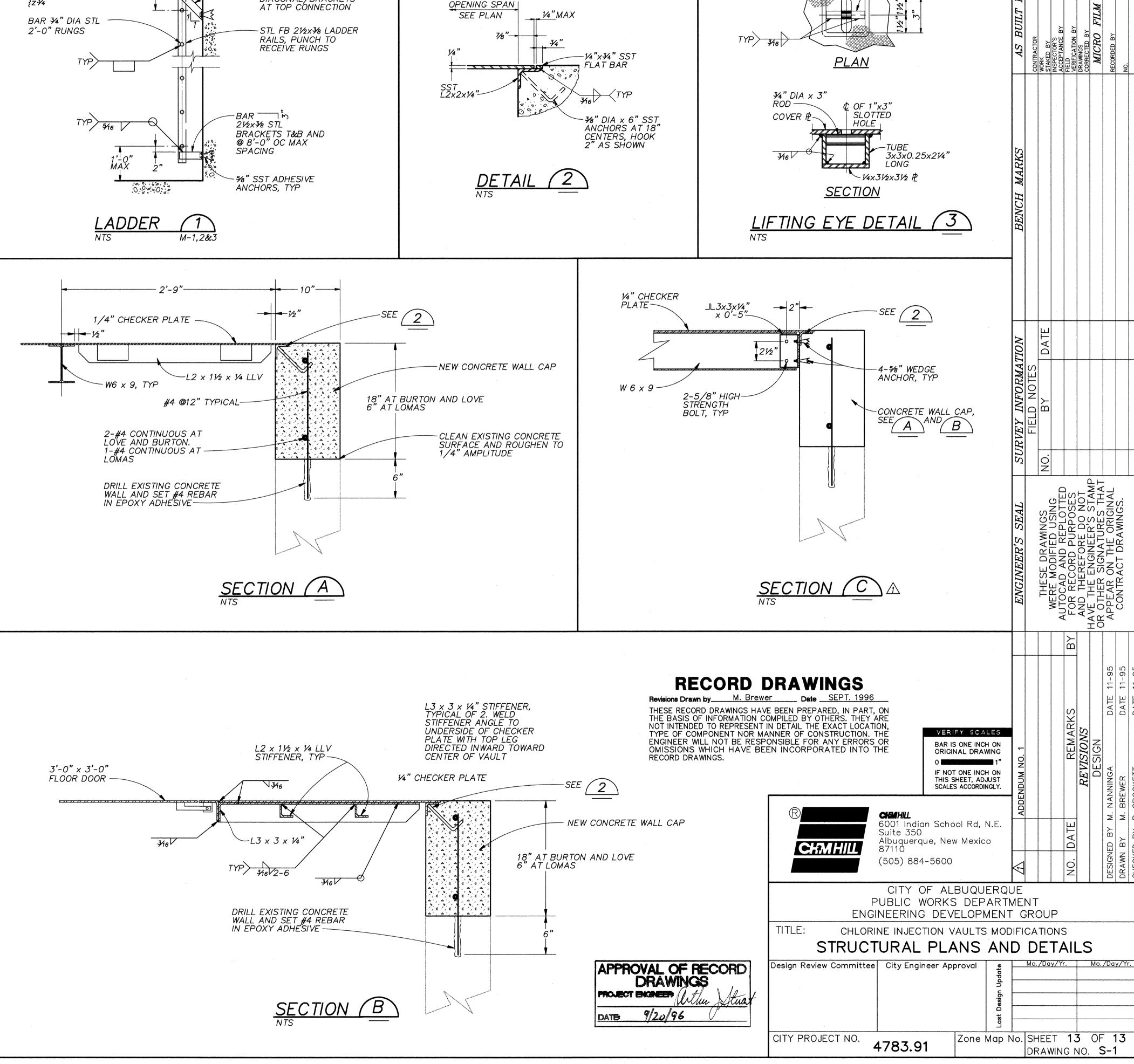
LOMAS TOP PLAN



NOTES:

- 1. 3'-0" x 3'-0" STEEL FLOOR DOOR SHALL BE MODIFIED AS FOLLOWS:
 - OMIT STRAP ANCHORS COPE ANGLE FRAME CORNERS WELD L3"x 3"x 1/4" TO HINGE SIDE OF FRAME SO THAT TOP LEG OF THE ANGLE IS 1/4" BELOW TOP OF ANGLE FRAME
- FINISH PAINT CHECKER PLATE, STRUCTURAL STEEL SUPPORTS, LADDER AND FLOOR AS SPECIFIED UNDER SECTION PAINTING.
- PLAN SHOWN IS FOR LOVE. BURTON IS A MIRROR IMAGE WITH FLOOR DOOR ON OPPOSITE SIDE OF VAULT.
- CONTRACTOR SHALL FIELD VERIFY DIMENSIONS OF EXISTING CONCRETE VAULT PRIOR TO ORDERING OR FABRICATION OF MATERIALS.

LOVE/BURTON TOP PLAN



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