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PROJECT NO.:

C

B

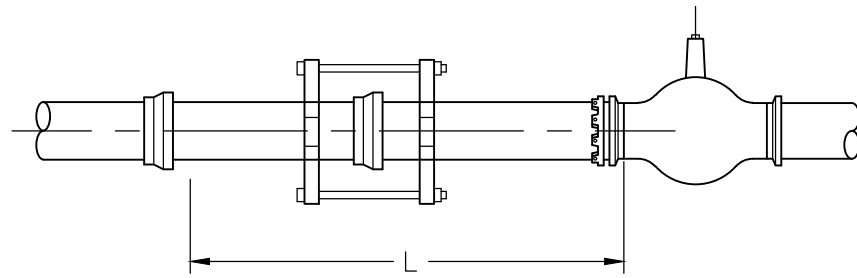
A

### REDUCER

RESTRAIN EITHER $L_s$ OR $L_l$ LENGTH	$(L_s)$ L SMALL or $(L_l)$ L LARGE	
	UNOBSTRUCTED STRAIGHT RUN LENGTH, FEET RESTRAINED	LARGE SIDE RESTRAINED LENGTH, FEET
6" x 4"	42	28
8" x 4"	39	30
8" x 6"	39	30
10" x 6"	87	53
10" x 8"	36	29
12" x 8"	81	54
12" x 10"	36	30
14" x 10"	78	55

LINE SIZE	RESTRAINED LENGTH $L_l$ , BOTH SIDES OF VALVE, FEET
4"	39
6"	55
8"	72
10"	86
12"	102
14"	116

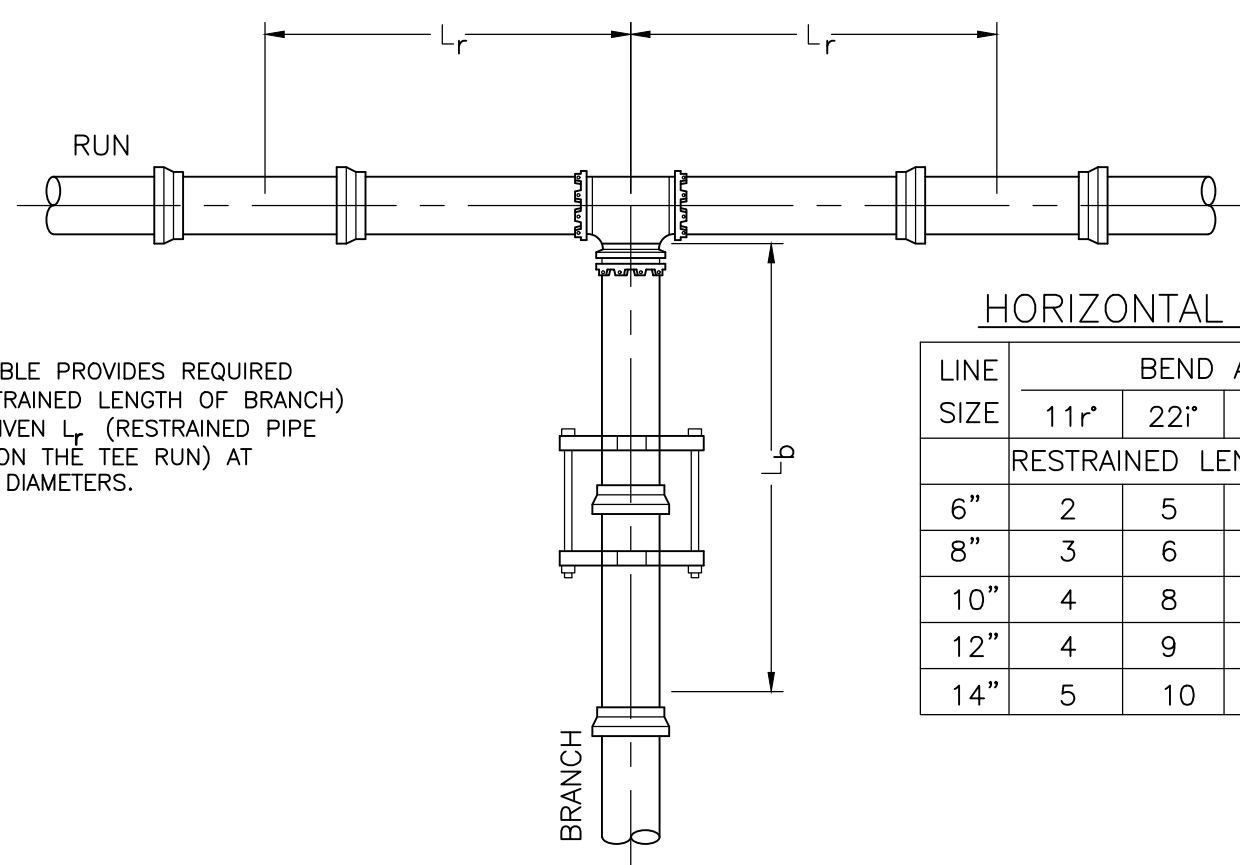
THESE LENGTHS MAY BE USED  
WHERE ENOUGH NEW PIPE EXISTS  
TO INSTALL THE RESTRAINT JOINTS  
ALONG A STRAIGHT PIPE RUN.



### TEES

LINE SIZE	BRANCH SIZE 6"				BRANCH SIZE 8"				BRANCH SIZE 10"				BRANCH SIZE 12"			
	$L_r=5'$	$L_r=10'$	$L_r=15'$	$L_r=20'$	$L=5'$	$L_r=10'$	$L_r=15'$	$L_r=20'$	$L=5'$	$L_r=10'$	$L_r=15'$	$L_r=20'$	$L=5'$	$L_r=10'$	$L_r=15'$	$L_r=20'$
6"																
8"																
10"																
12"																
14"																

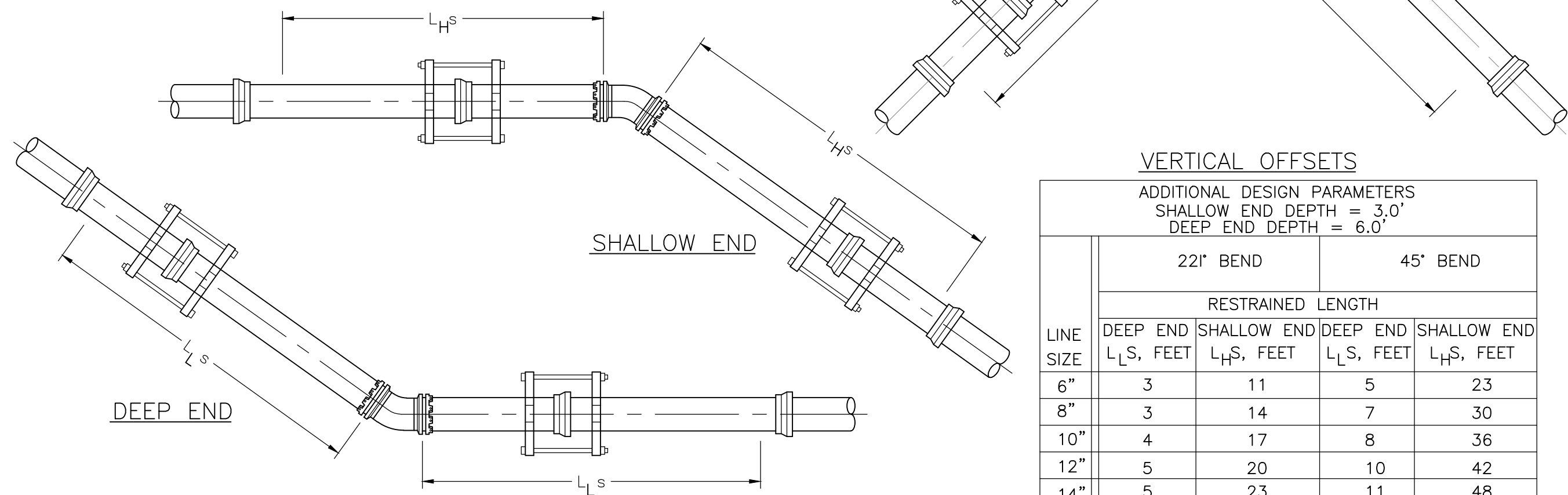
FJO: RESTRAINT REQUIRED AT FITTING JOINT ONLY



NOTE: TABLE PROVIDES REQUIRED  
 $L_b$  (RESTRAINED LENGTH OF BRANCH)  
FOR A GIVEN  $L_r$  (RESTRAINED PIPE  
LENGTH ON THE TEE RUN) AT  
VARIOUS DIAMETERS.

### HORIZONTAL BENDS

LINE SIZE	BEND ANGLE			RESTRAINED LENGTH, $L$ , FEET
	11°	22°	45°	
6"	2	5	10	25
8"	3	6	13	32
10"	4	8	16	38
12"	4	9	19	45
14"	5	10	21	51



### VERTICAL OFFSETS

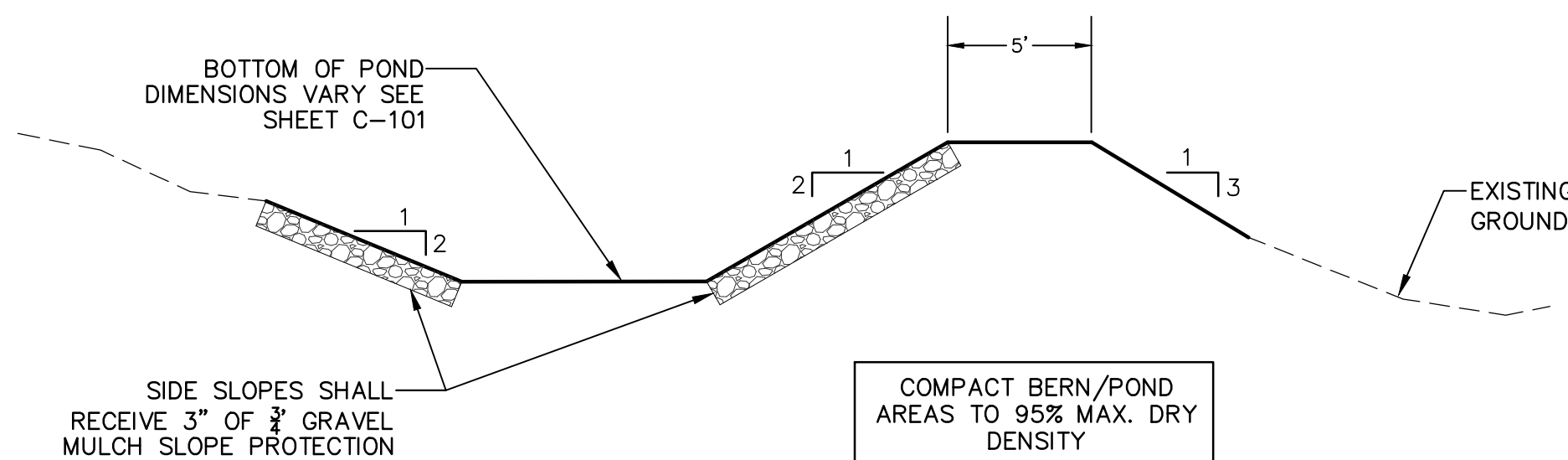
ADDITIONAL DESIGN PARAMETERS  
SHALLOW END DEPTH = 3.0'  
DEEP END DEPTH = 6.0'

LINE SIZE	22° BEND				45° BEND			
	RESTRAINED LENGTH				RESTRAINED LENGTH			
	DEEP END $L_L$ , FEET	SHALLOW END $L_H$ , FEET	DEEP END $L_L$ , FEET	SHALLOW END $L_H$ , FEET	DEEP END $L_L$ , FEET	SHALLOW END $L_H$ , FEET	DEEP END $L_L$ , FEET	SHALLOW END $L_H$ , FEET
6"	3	11	5	23				
8"	3	14	7	30				
10"	4	17	8	36				
12"	5	20	10	42				
14"	5	23	11	48				

B1

### PIPE RESTRAINT LENGTHS

SCALE: NOT TO SCALE



C5

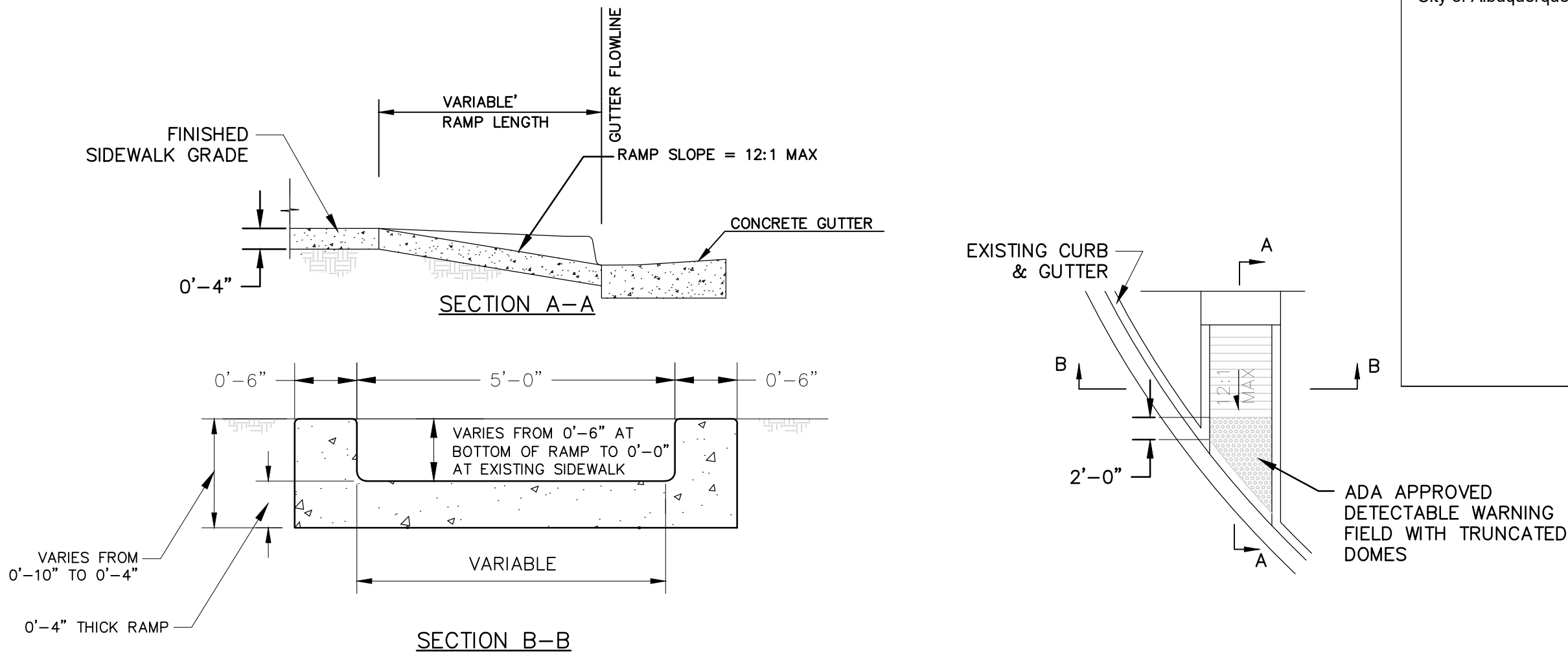
### TYPICAL WATER HARVEST AREA SECTION

SCALE: NOT TO SCALE

4

5

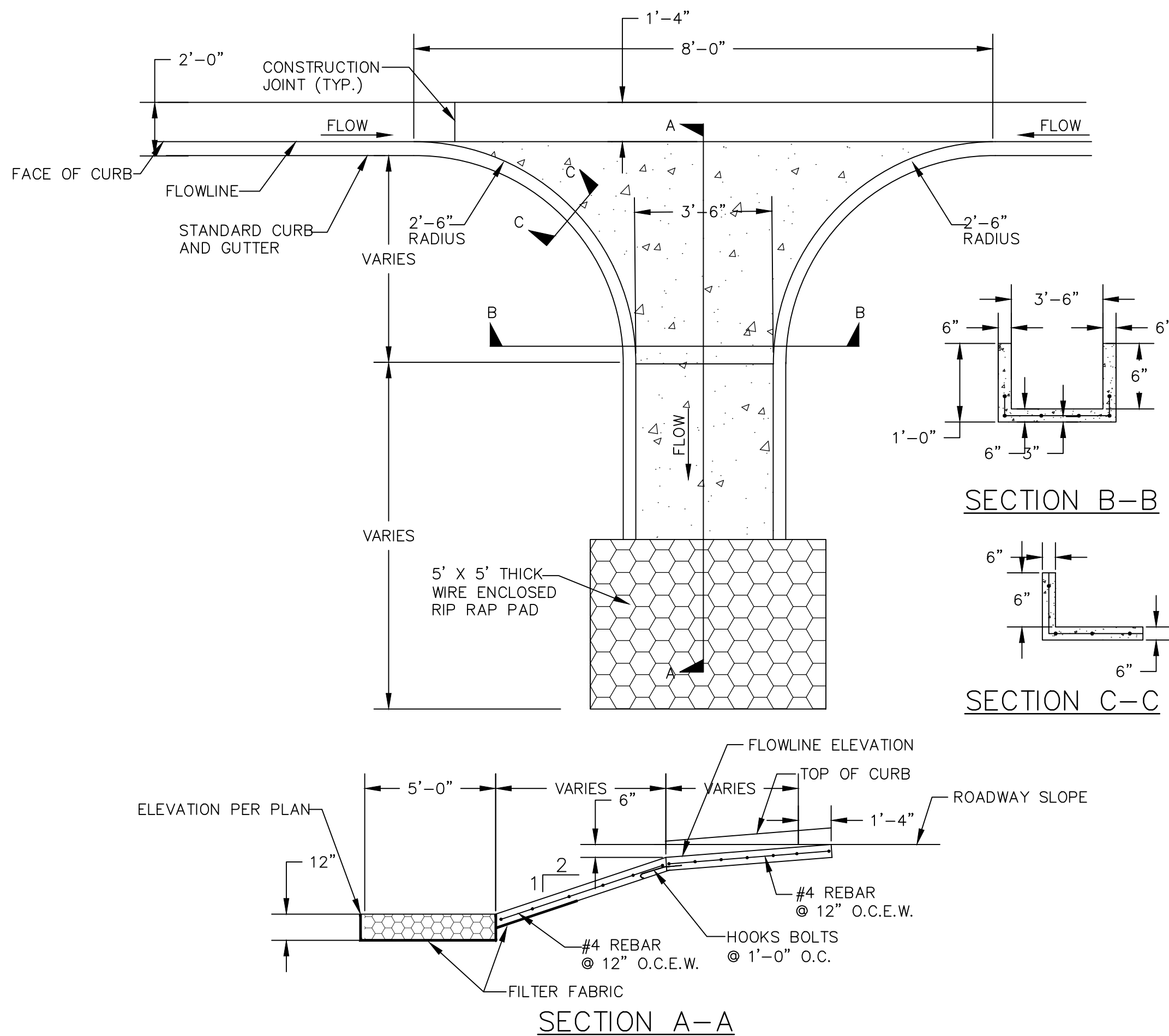
City of Albuquerque Electronic Stamp



D5

### HANDICAP RAMP DETAIL

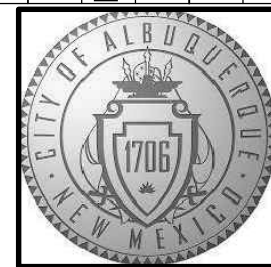
SCALE: NOT TO SCALE



A5

### CONCRETE RUNDOWN DETAIL

SCALE: NOT TO SCALE



### CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROGRAM

### AFD FIRE STATION 4

301 MCKNIGHT AVENUE, N.W.  
ALBUQUERQUE, NM 87123

Drawing Title

### MISCELLANEOUS DETAILS

Design Review Committee

City Engineer Approval

Issue Date:

JULY, 2025

City Project No.

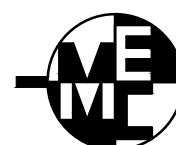
Last Design  
Update

Mo./Day/Yr.

7/24/18

Sheet

C-502



MILLER ENGINEERING CONSULTANTS

Engineers • Planners

3500 DOMINIQUE, NE  
BUILDING 1  
ALBUQUERQUE, NM 87107  
(505) 888-7200  
(505) 888-3800 (FAX)  
WWW.MECNM.COM



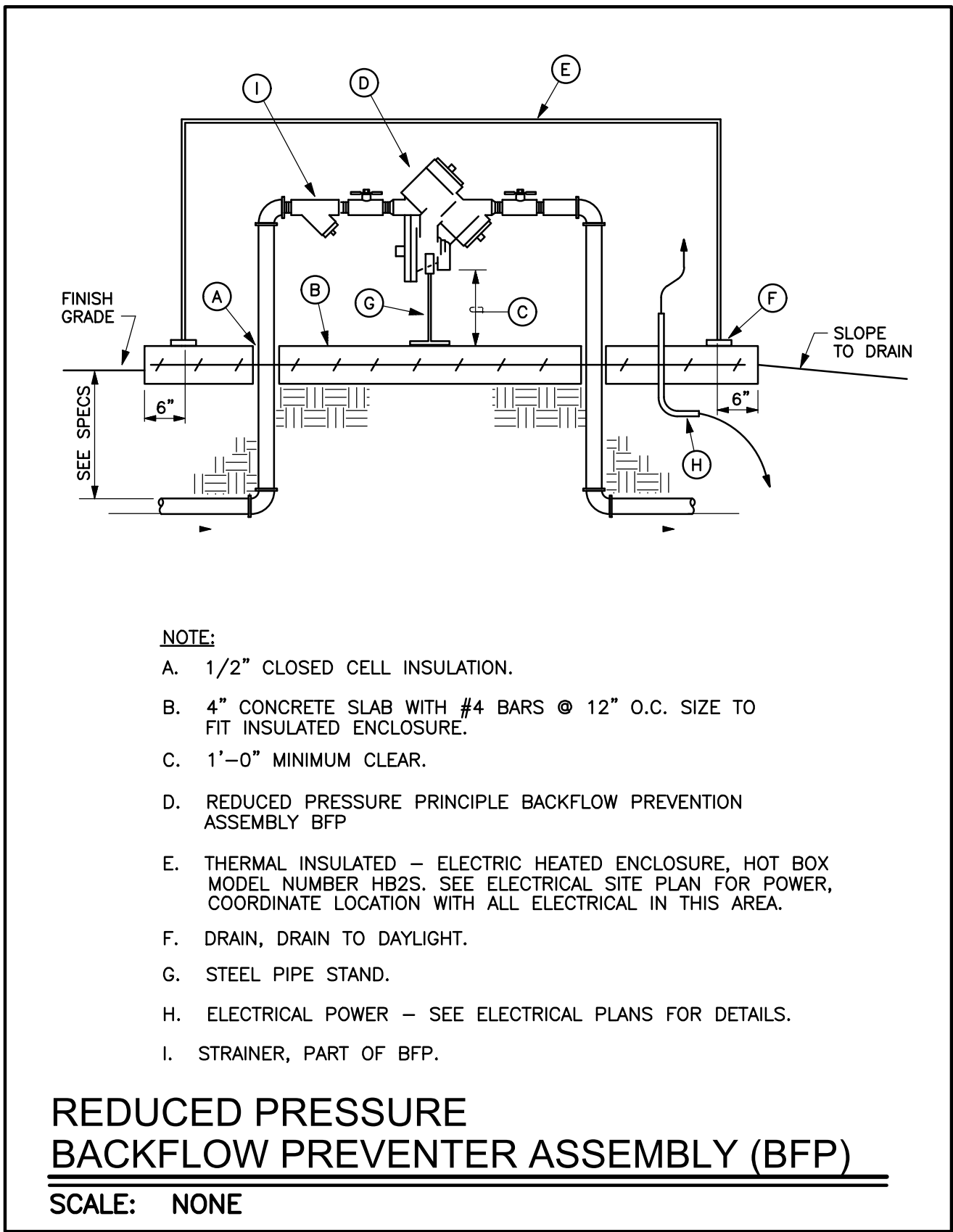
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D PROJECT NO.:

C

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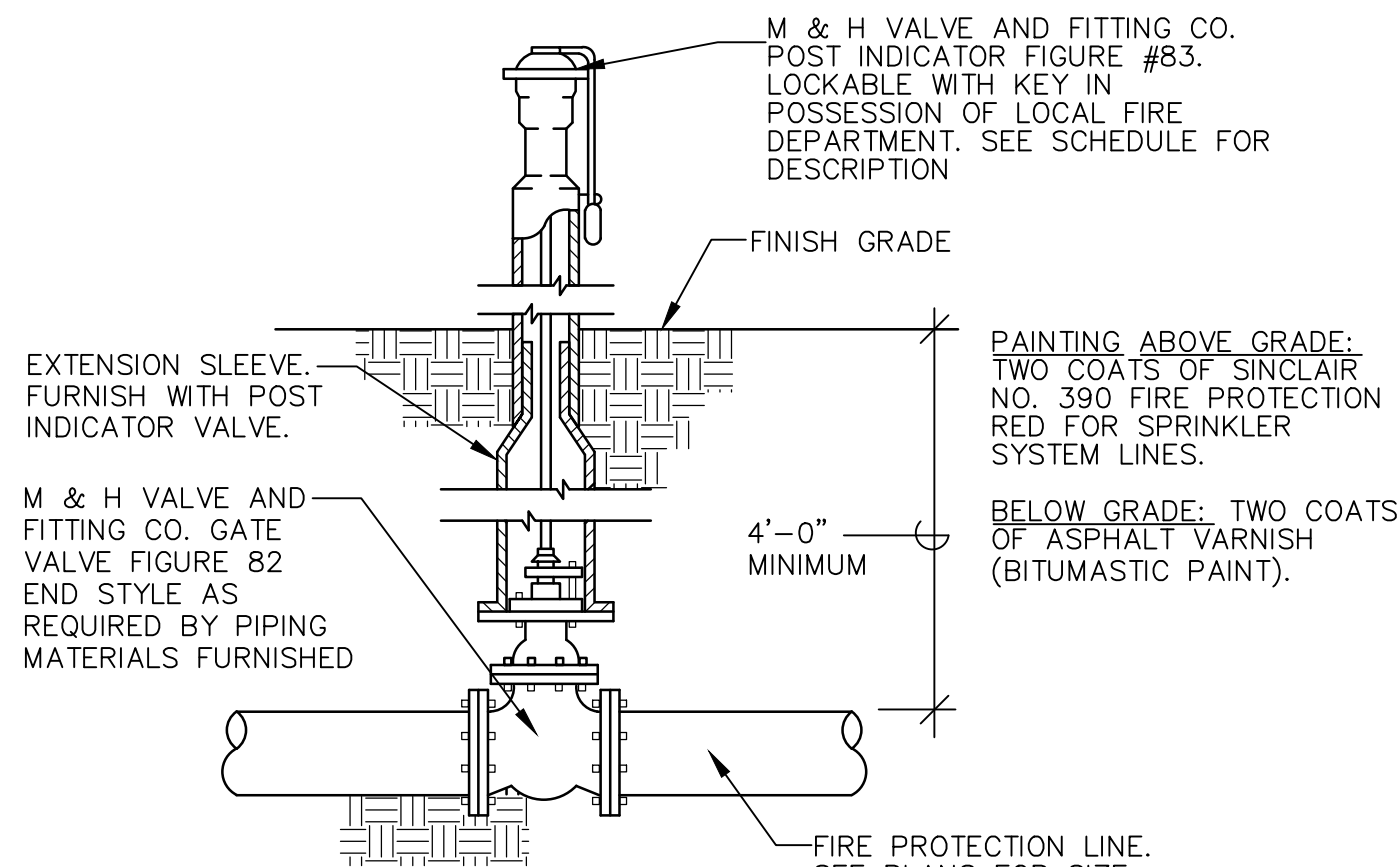
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**REDUCED PRESSURE  
BACKFLOW PREVENTER ASSEMBLY (BFP)**

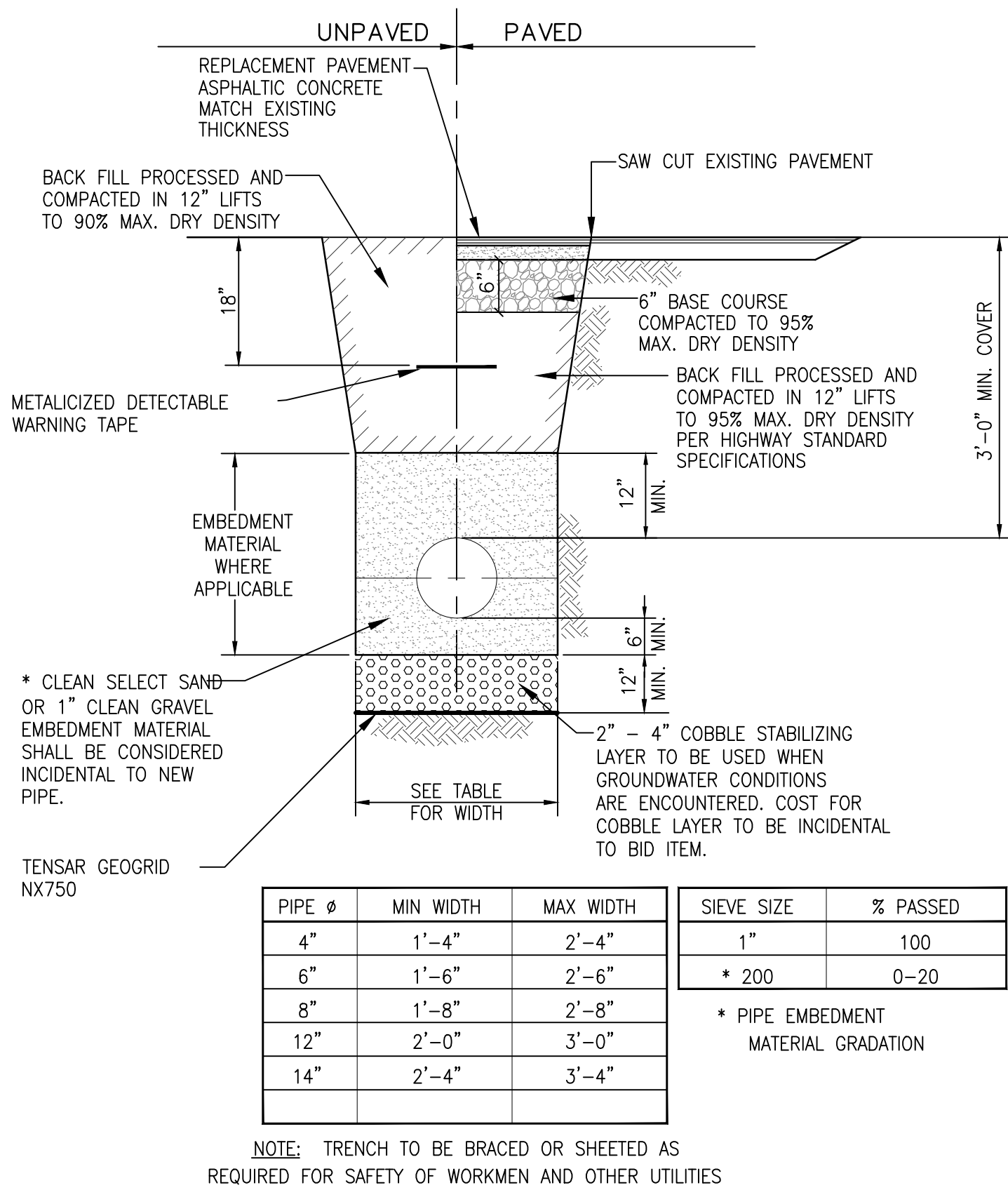
SCALE: NONE

FIRE PROTECTION EQUIPMENT SCHEDULE	
SYMBOL	DESCRIPTION
BFP-1	BACKFLOW PREVENTOR: FEBCO MODEL 860U REDUCED PRESSURE BACKFLOW PREVENTION DEVICE WITH UNION END BALL VALVES, CHECK VALVE ASSEMBLY WITH STAINLESS STEEL SPRINGS, BRONZE BODY, WORKING PRESSURE OF 175 PSI AND WATER TEMPERATURES OF 32 F TO 140 F, USC AND IAPMO APPROVED, FURNISH WITH AG-1 AIR GAP DRAIN AND PIPE FULL SIZE TO OUTSIDE, SIZE AS SHOWN ON DRAWING.
HE-1	HEATED ENCLOSURE: FLIP TOP FIBERGLASS UNIT WITH HEAT, MINIMUM 1/8" THICK THIXOTROPIC POLYESTER RESIN REINFORCED WITH FIBERGLASS, SMOOTH MOLDED EXTERIOR, UV PROTECTED FINISH, 1 1/4" INSULATION(R-8), LOCKABLE FLIP TOP, ONE WAY DRAIN OPENINGS, 2-1500 WATT HEATERS, UNIT SHALL BE ASSE 1060 CERTIFIED, SELECTION BASED ON HOT BOX MODEL HB2 OR APPROVED EQUAL.



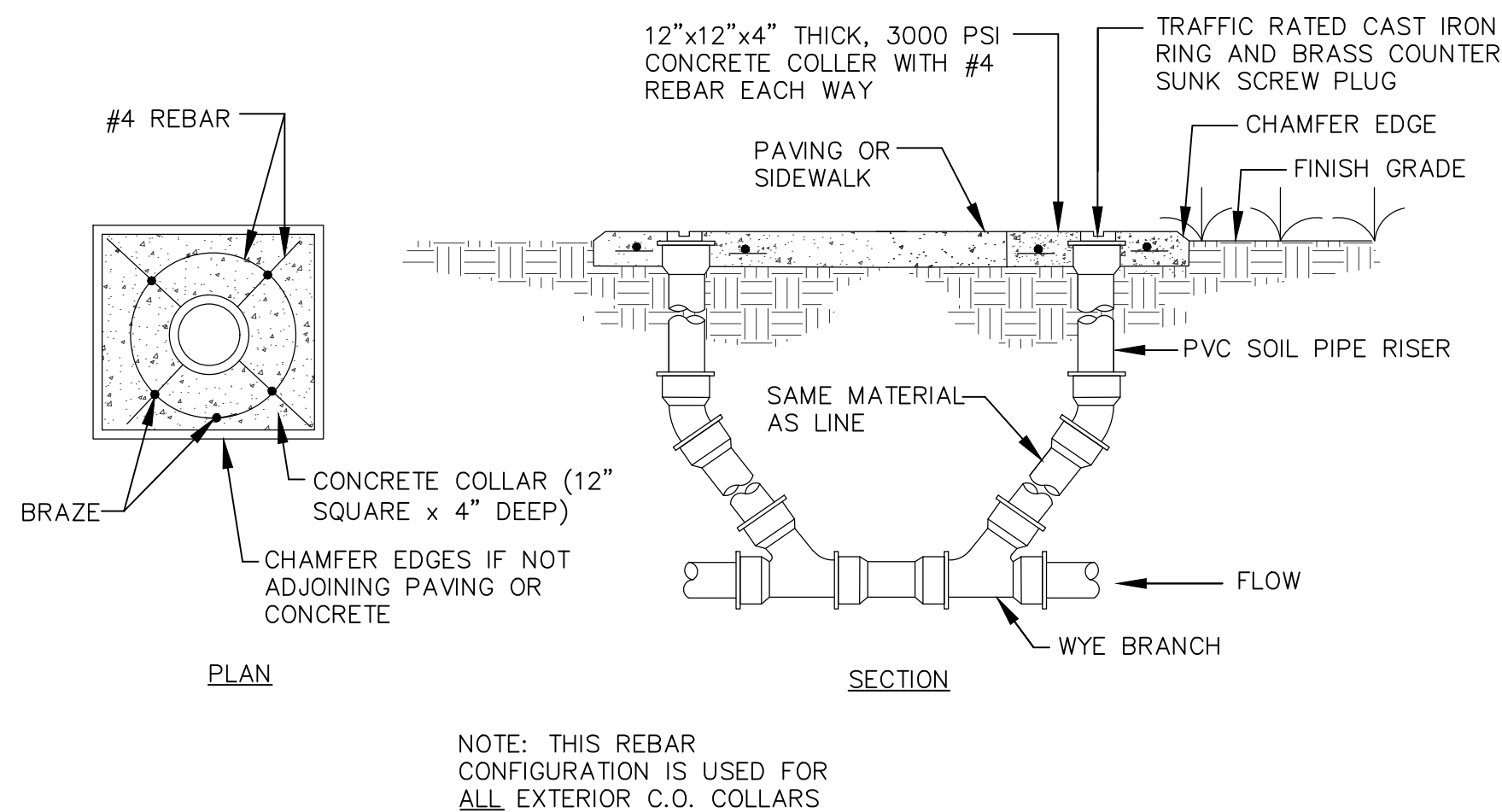
**A1 POST INDICATOR VALVE DETAIL**

SCALE: NOT TO SCALE



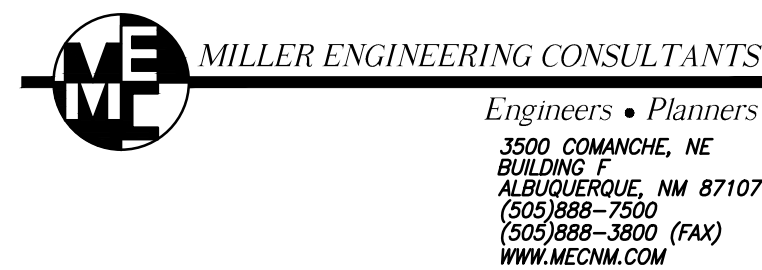
**C2 TYPICAL WATER & SEWER TRENCH SECTION**

SCALE: NOT TO SCALE



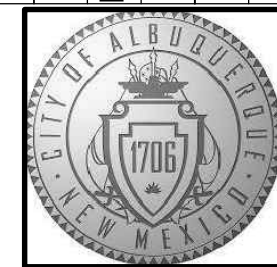
**B4 TYPICAL DOUBLE CLEANOUT TO GRADE DETAIL**

SCALE: NOT TO SCALE



City of Albuquerque Electronic Stamp

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		FIELD NOTES	
CONTRACTOR	DATE			NO.	BY		
WORKS BY	DATE						
SUBMITTALS	DATE						
ACCEPTANCE BY	DATE						
FIELD LOCATION BY	DATE						
DESIGNED BY	DATE						
CHECKED BY	DATE						
MICRO-FILM INFORMATION							
RECORDED BY	DATE						
NO.							



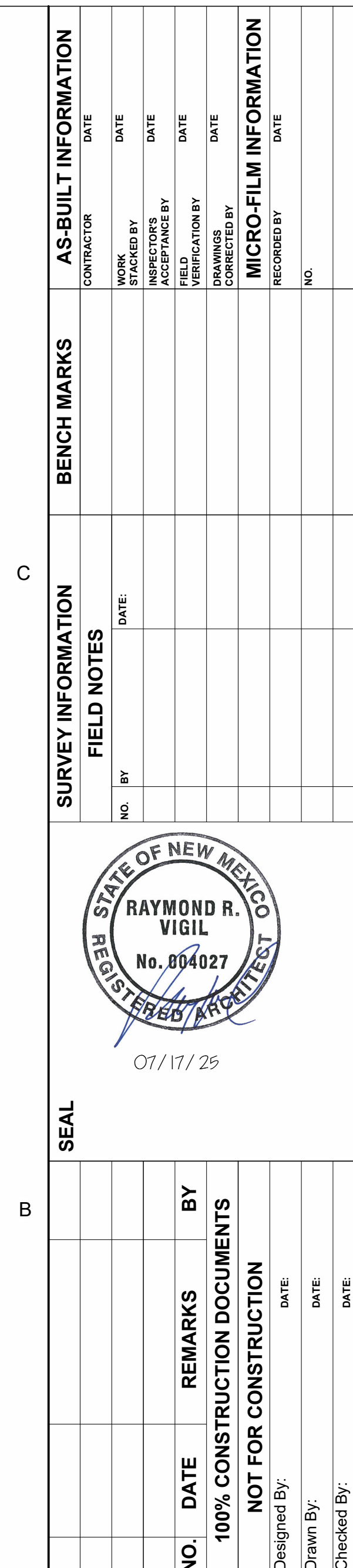
**CITY OF ALBUQUERQUE  
CAPITAL IMPLEMENTATION PROGRAM**

**AFD FIRE STATION 4**

301 McKNIGHT AVENUE N.W.,  
ALBUQUERQUE, NM 87123

MISCELLANEOUS DETAILS			
Drawing Title			
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr. 7/24/18
Issue Date:	City Project No.	Sheet	
<b>JULY, 2025</b>	.		<b>C-503</b>







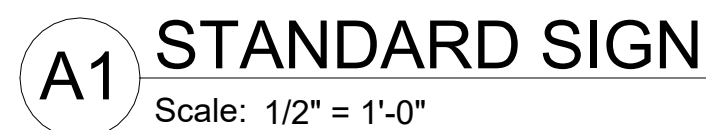
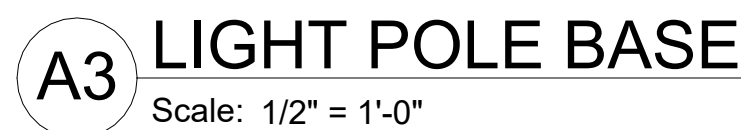



NOTE: FOR REFERENCE ONLY; UTILIZE INDUSTRY  
STANDARDS FOR TYPICAL  
SIZE/COLOR/STYLIZATION

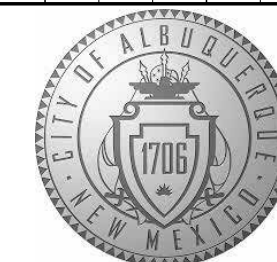
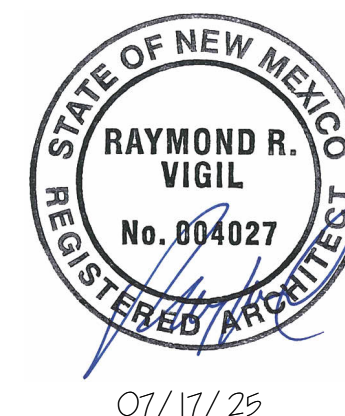
**B1** **TRAFFIC SIGNS**  
Scale: 1" = 1'-0"



* POLE BASE LENGTH (L) BELOW FINISHED GRADE AND DIAMETER (D) AS FOLLOWS	
TOP OF POLE HEIGHT (HT) AFG	CONCRETE BASE LENGTH BELOW GRADE & DIAMETER
0' < HT ≤ 15'	→ 48" L x 16" D
15' < HT ≤ 29'	→ 60" L x 20" D
29' < HT ≤ 40'	→ 72" L x 24" D



SEAL				SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
				FIELD NOTES					
NO.	DATE	REMARKS	BY	NO.	DATE				
<b>100% CONSTRUCTION DOCUMENTS</b>  <b>NOT FOR CONSTRUCTION</b>									
				Designed By: _____ DATE: _____ Drawn By: _____ DATE: _____ Checked By: _____ DATE: _____					



**CITY OF ALBUQUERQUE**  
CAPITAL IMPLEMENTATION PROGRAM

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**FIRE STATION #4**

Drawing Title
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## SITE DETAILS - EPC

Design Review Committee

City Engineer Approval

Issue Date:

JULY 2025

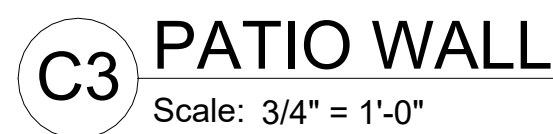
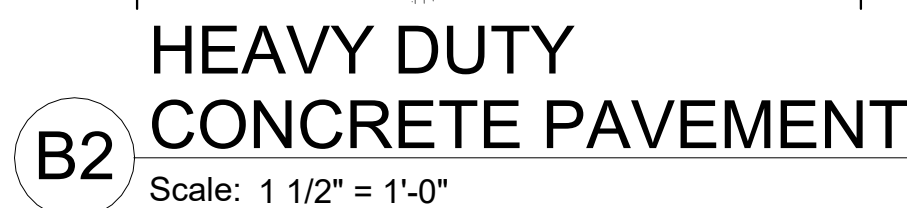
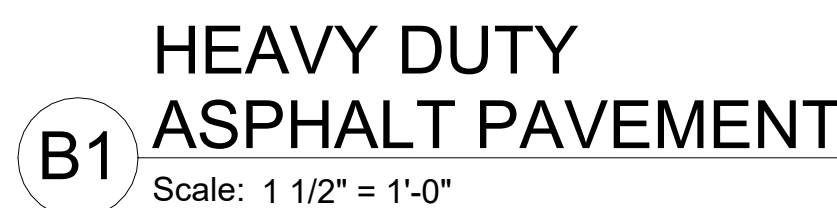
City Project No	
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**587895**

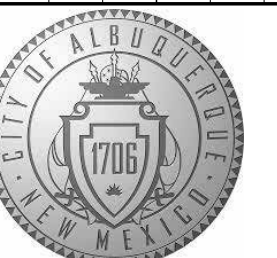
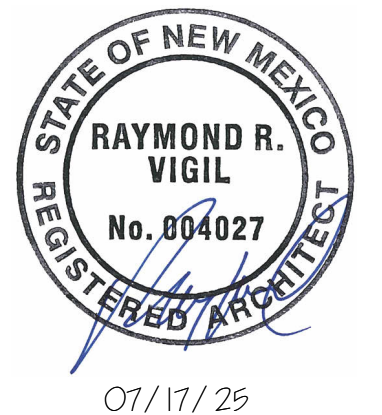
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# EPC-AS-502





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Designed By:						DATE:	
Drawn By:						DATE:	
Checked By:						DATE:	
						NO.	
						RECORDED BY	DATE
						<b>MICRO-FILM INFORMATION</b>	
						DATE	



**CITY OF ALBUQUERQUE**  
**CAPITAL IMPLEMENTATION PROGRAM**  
**FIRE STATION #4**

Drawing Title
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## SITE DETAILS - EPC

Design Review Committee

City Engineer Approval

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1

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[illegible]

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10. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

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[illegible]


Age Group	Percentage of Respondents
18-29	85%
30-49	80%
50-69	75%
70+	70%

Issue Date:

City Project No.

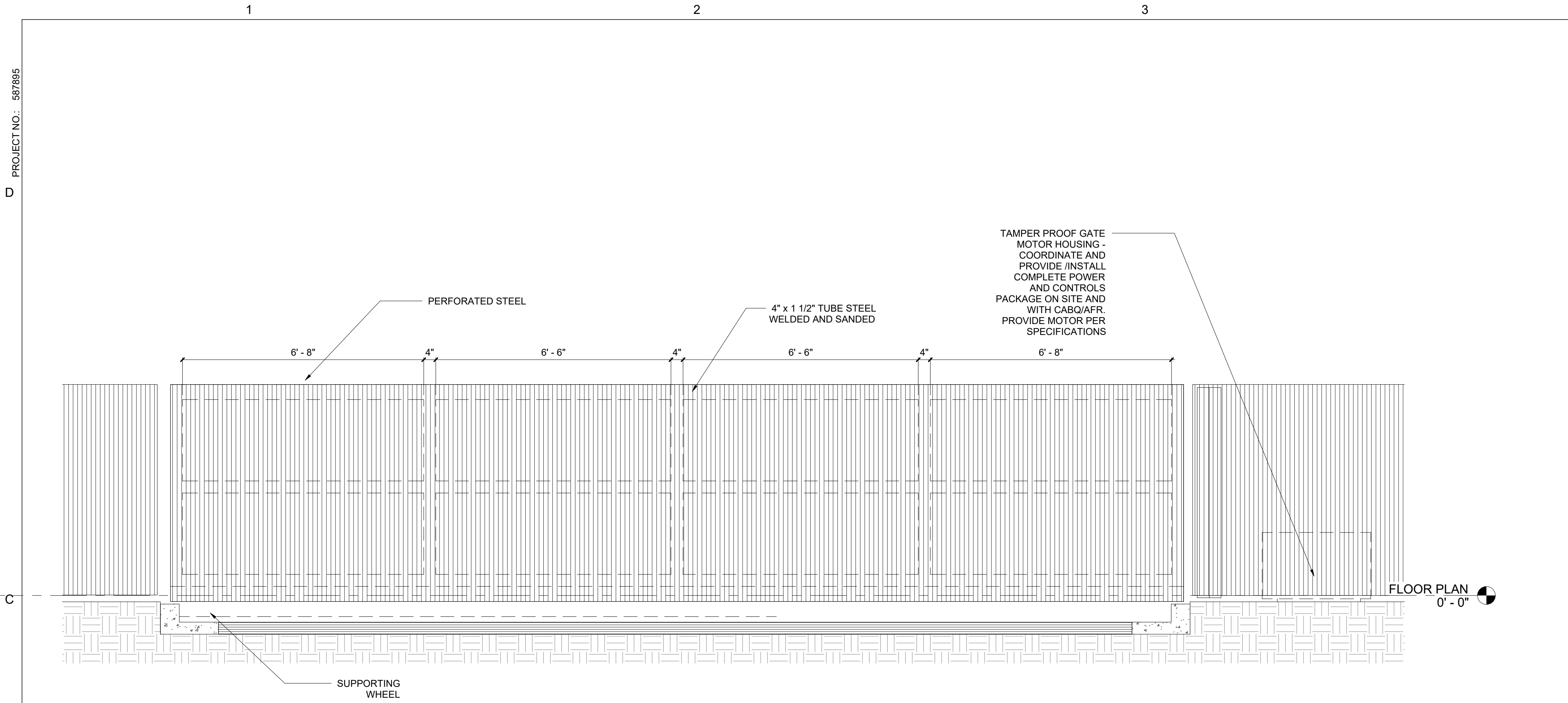
JULY 2025

5878

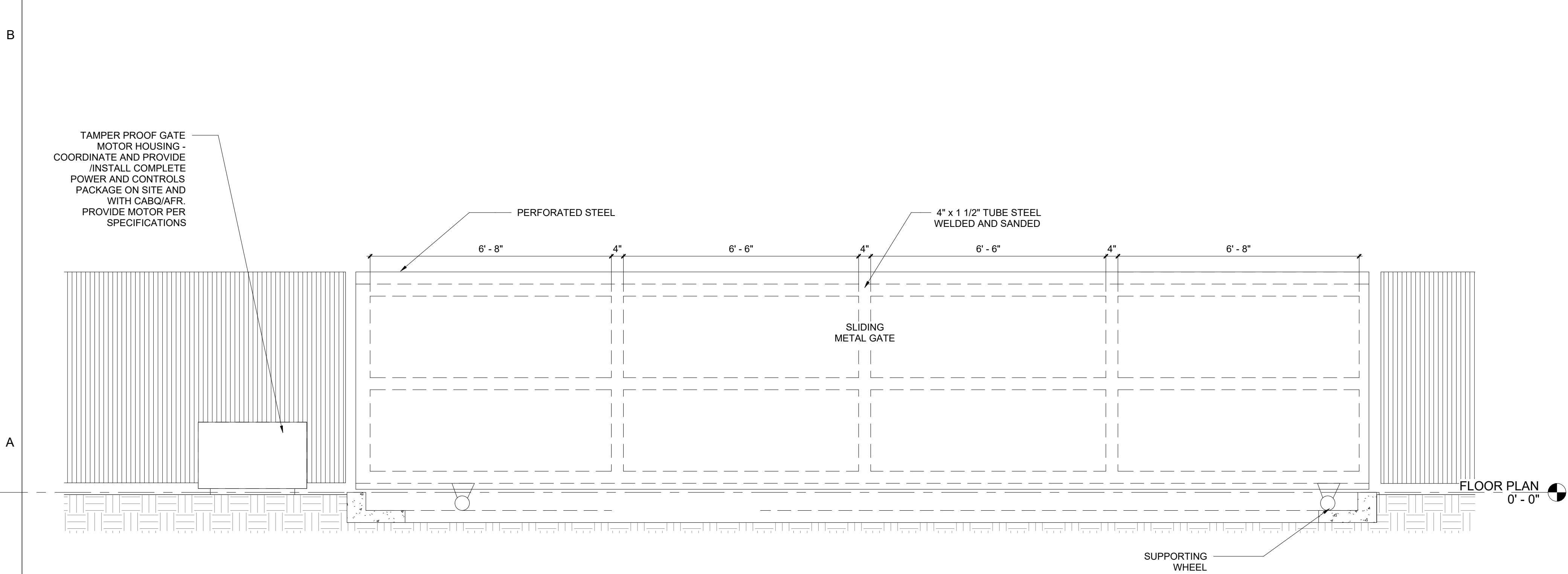
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**EPC-AS- 503**





**C1 SLIDING GATE - FRONT ELEVATION**  
Scale: 1/2" = 1'-0"



**A1 SLIDING GATE- REAR ELEVATION**  
Scale: 1/2" = 1'-0"

City of Albuquerque Electronic Stamp

SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
FIELD NOTES					
NO.	BY	DATE	CONTRACTOR	WORK	DATE
				STACKED BY	DATE
				INSTALLATION BY	DATE
				FIELD	DATE
				VERIFICATION BY	DATE
				COMPLETED BY	DATE
MICRO-FILM INFORMATION					
				RECORDED BY	DATE
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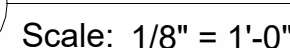
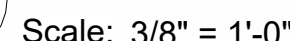


**CITY OF ALBUQUERQUE**  
CAPITAL IMPLEMENTATION PROGRAM  
**FIRE STATION #4**

SLIDING GATE ELEVATIONS - EPC			
Drawing Title	Design Review Committee	City Engineer Approval	Mo./Day/Yr.
			Mo./Day/Yr.
Issue Date:	City Project No.	Sheet	
JULY 2025	587895		

**EPC-AS-504**





CODE	MATERIAL	STYLE	COLOR
EXTERIOR FINISHES			
CMU-1	BURNISHED - CMU	BURNISHED BLOCK	OFF WHITE
STO	STUCCO 01	SAND STUCCO FINISH	TAUPE
FCP	FIBER CEMENT PANEL	SMOOTH	LIGHT GRAY
PC-#	WALL COPING CAP	METAL	CHARCOAL
SSR-1	STANDING SEAM METAL ROOF	RAWHIDE	CHARCOAL
STEEL-1	SUNSHADE STRUCTURAL STEEL	MATTE	CHARCOAL
STEEL-2	METAL SCREEN	MATTE	BRIGHT RED
AL-1	ALUMINUM FRAMED OPENINGS	EXTERIOR: TRIFAB VG451T INTERIOR: TRIFAB 450	CLEAR ANODIZED ALUMINUM (SILVER)
OH1	HIGH SPEED OVERHEAD DOOR	MODEL #: EPI 300	BRIGHT RED
OH2	OVERHEAD SECTIONAL DOOR	MODEL #: 904U	CLEAR ANODIZED ALUMINUM (SILVER)
HM-D	HOLLOW METAL DOORS AND FRAMES	MATTE	FLAT GREY

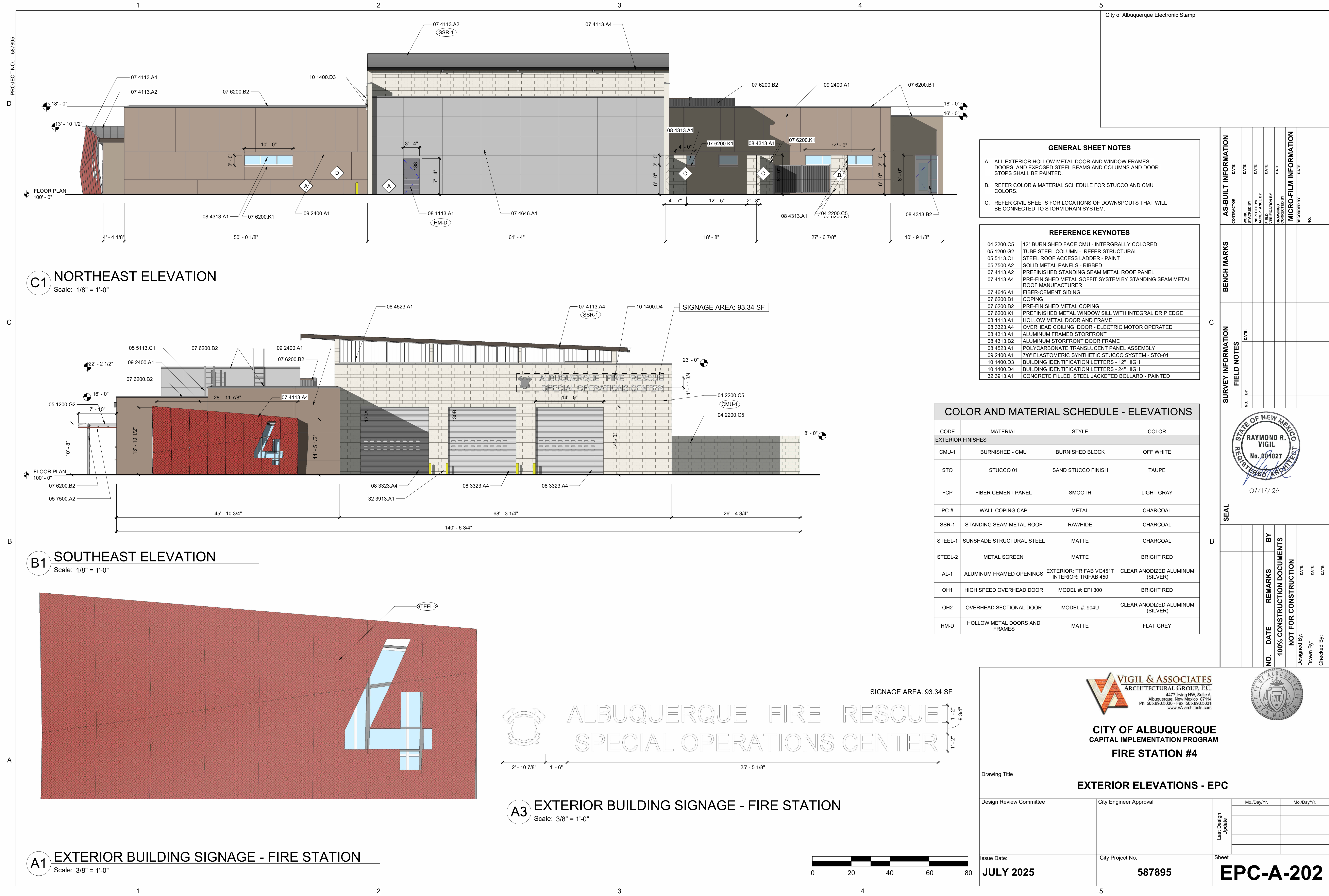
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Sheet

# EPC-A-201





PROJECT NO.: 587895

City of Albuquerque Electronic Stamp

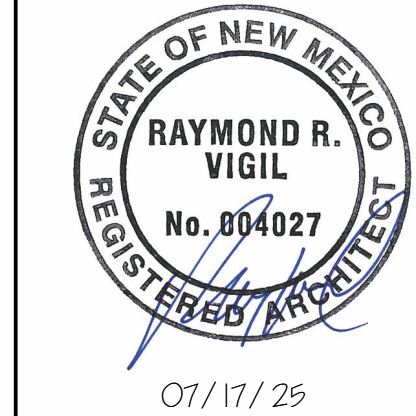
- GENERAL SHEET NOTES
A. ALL EXTERIOR HOLLOW METAL DOOR AND WINDOW FRAMES, DOORS, AND EXPOSED STEEL BEAMS AND COLUMNS AND DOOR STOPS SHALL BE PAINTED.
B. REFER COLOR & MATERIAL SCHEDULE FOR STUCCO AND CMU COLORS.
C. REFER CIVIL SHEETS FOR LOCATIONS OF DOWNSPOUTS THAT WILL BE CONNECTED TO STORM DRAIN SYSTEM.

Table with 2 columns: Item, Description. Contains reference keynotes for materials like CMU, Stucco, Metal, and Doors.

COLOR AND MATERIAL SCHEDULE - ELEVATIONS

Table with 4 columns: CODE, MATERIAL, STYLE, COLOR. Lists exterior finishes like CMU-1, STUCCO 01, FCP, etc.

AS-BUILT INFORMATION, BENCH MARKS, SURVEY INFORMATION, FIELD NOTES, SEAL, and project status table.



CITY OF ALBUQUERQUE
CAPITAL IMPLEMENTATION PROGRAM
FIRE STATION #4

Table with project details: Drawing Title (EXTERIOR ELEVATIONS - EPC), Design Review Committee, Issue Date (JULY 2025), City Project No. (587895), and Sheet (EPC-A-202).















# PR-2024-010349\_SI-2024-01085\_Site Plan\_EPC Final Sign-Approved-SignatureSheet

Final Audit Report

2025-08-15

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