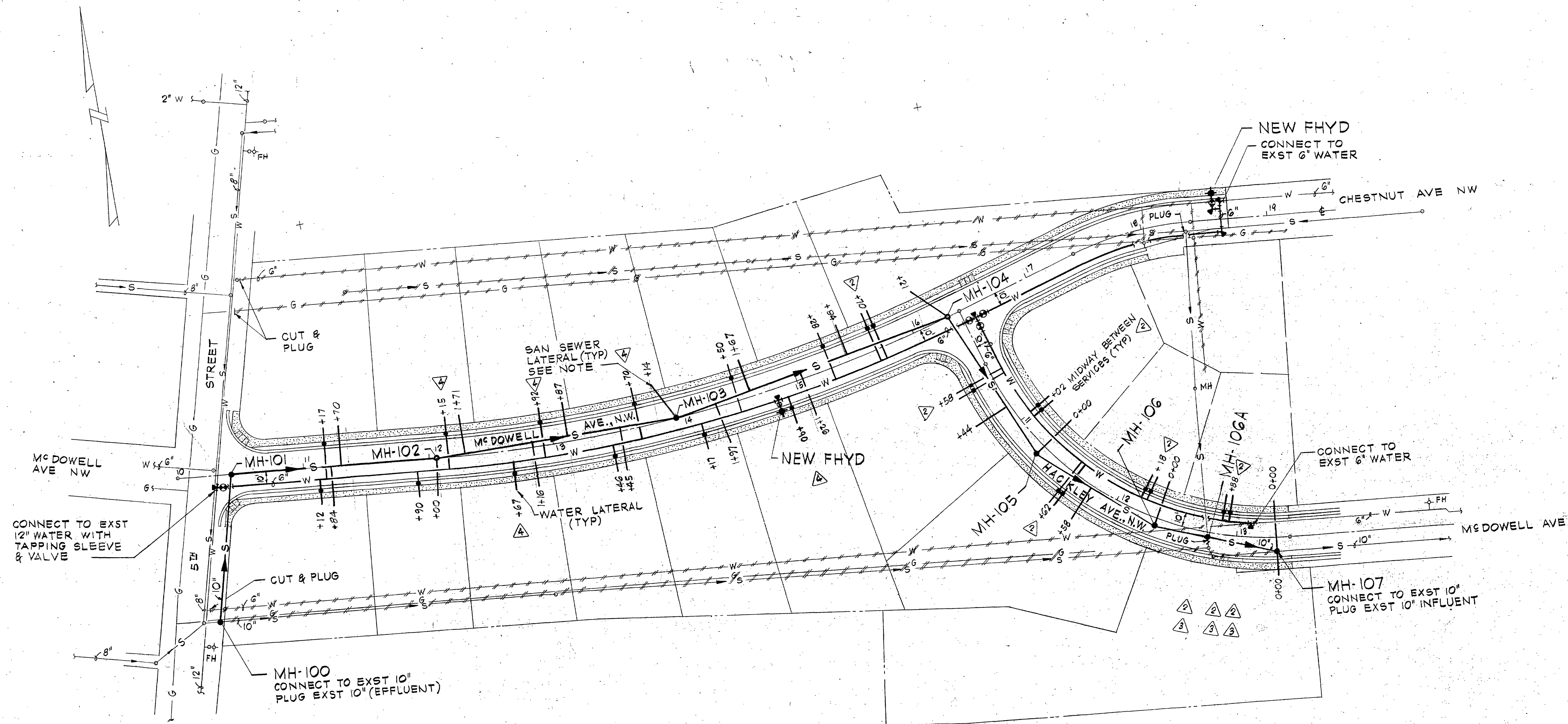




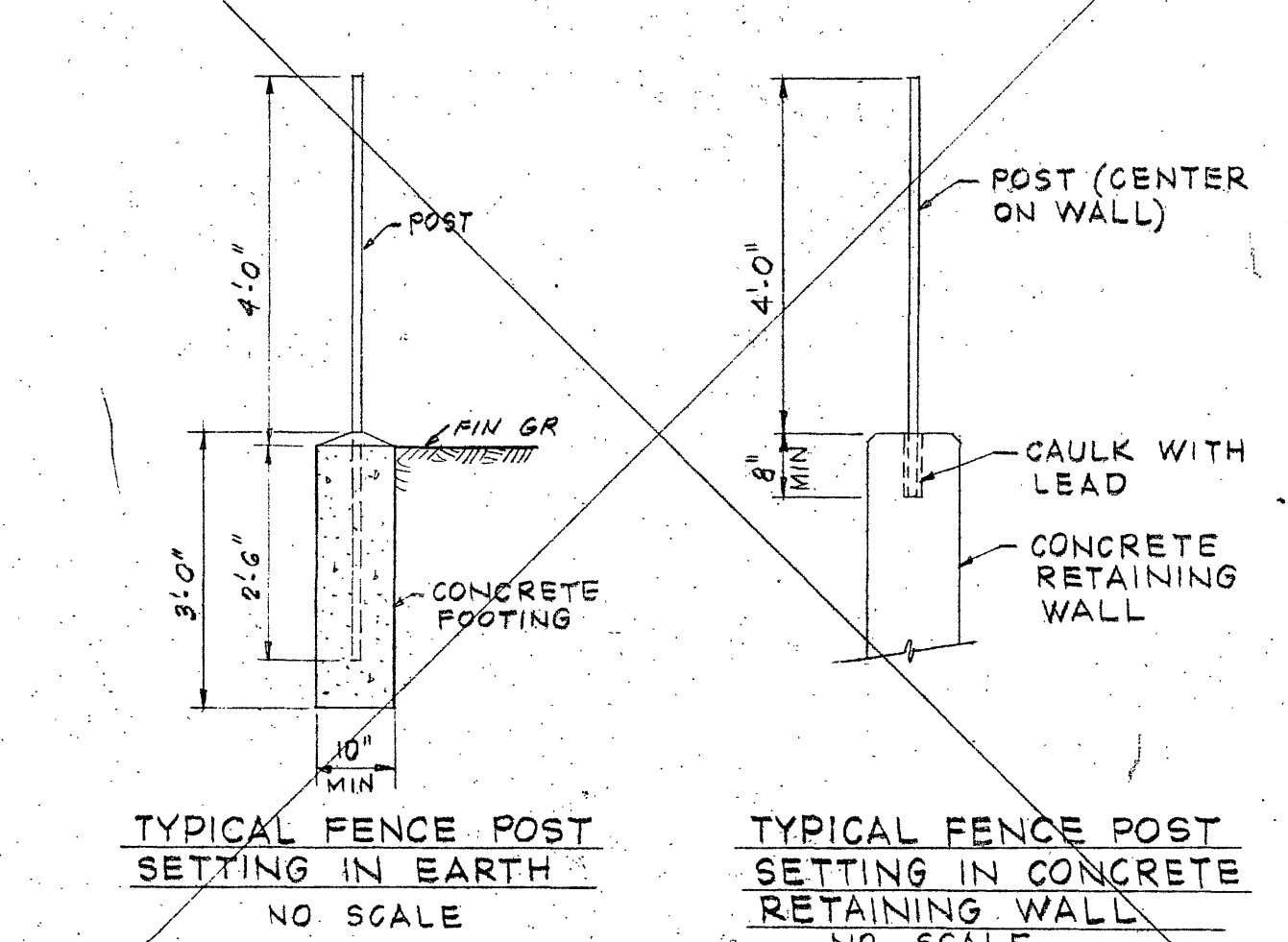
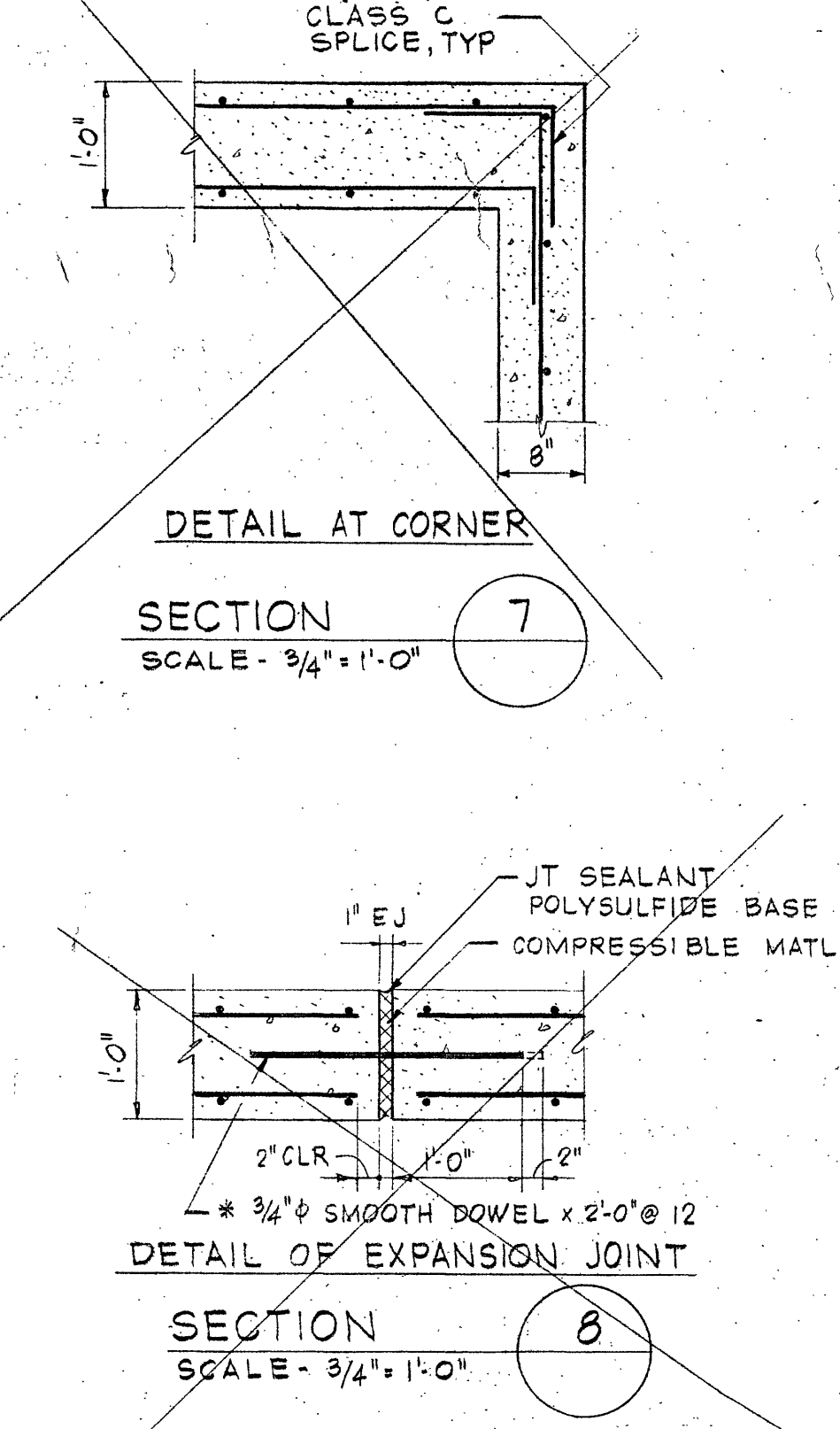
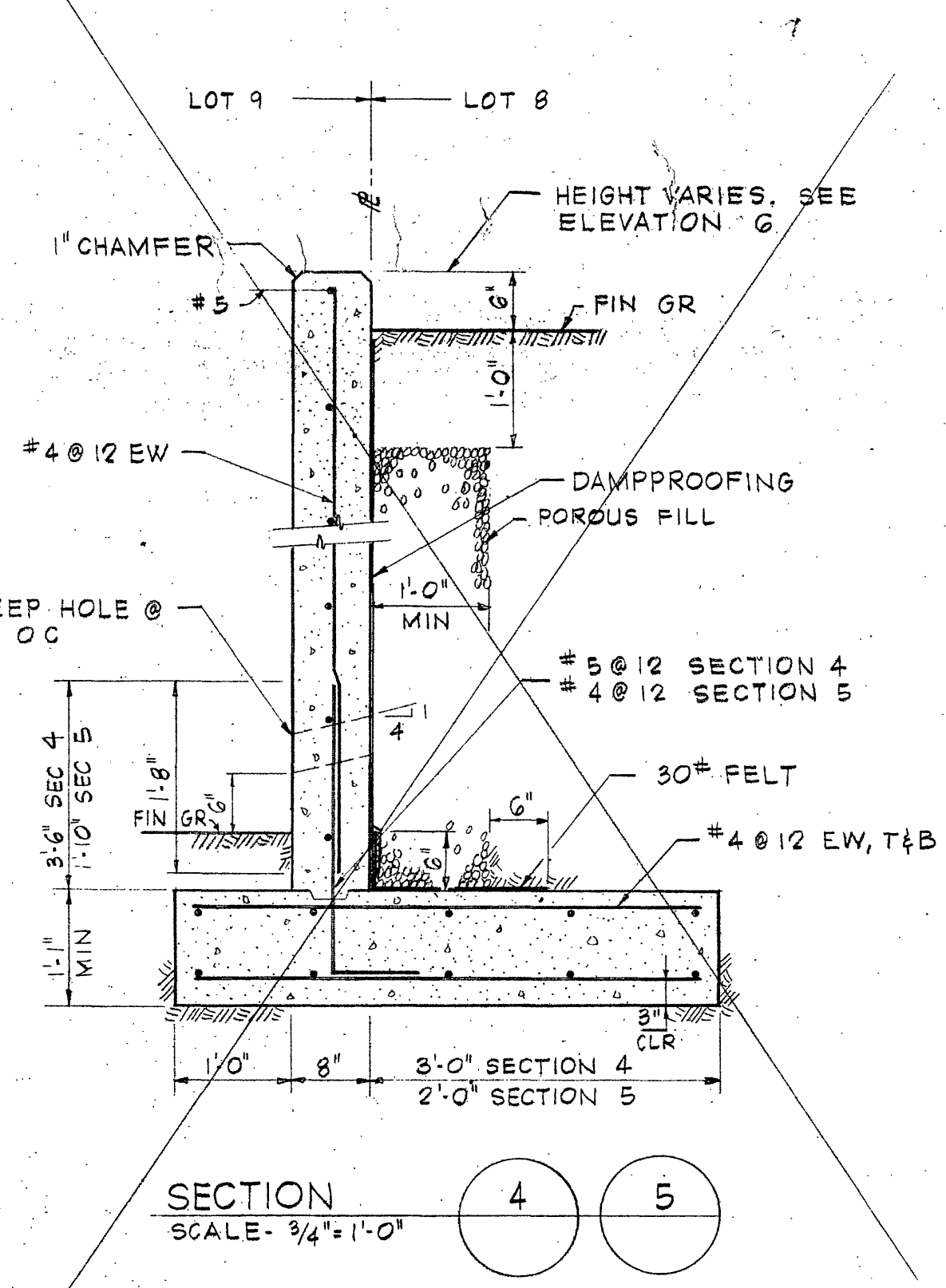
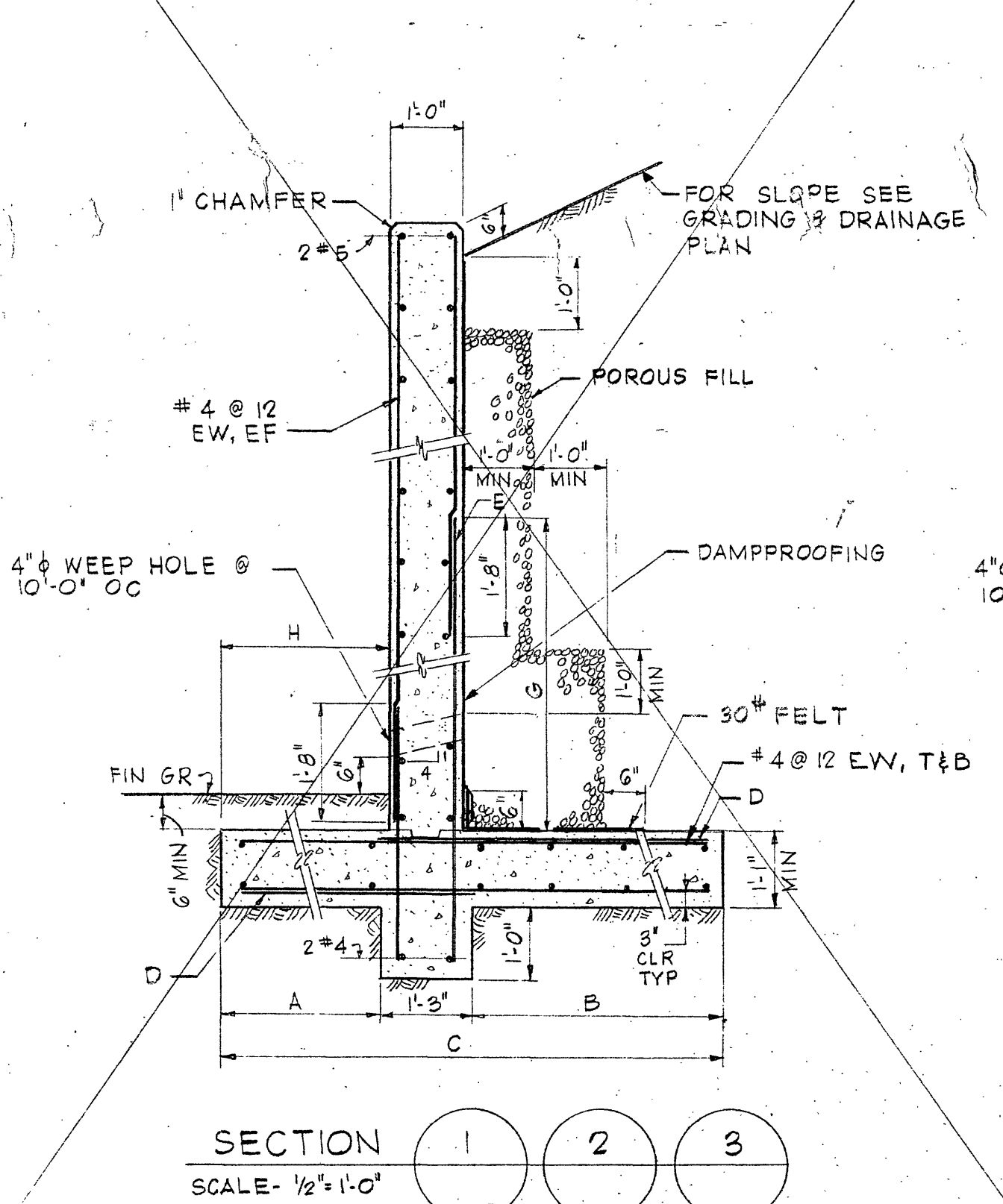
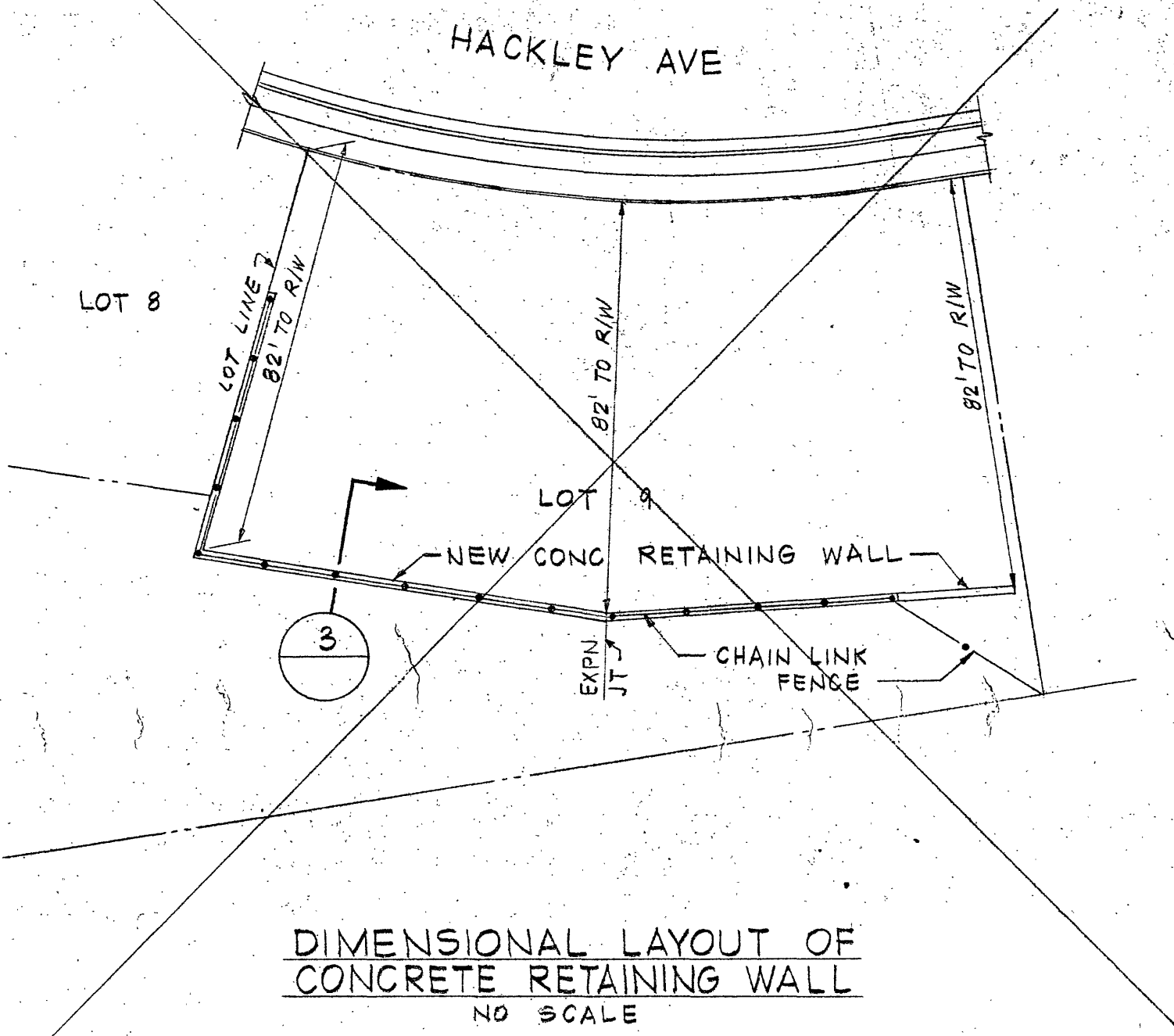
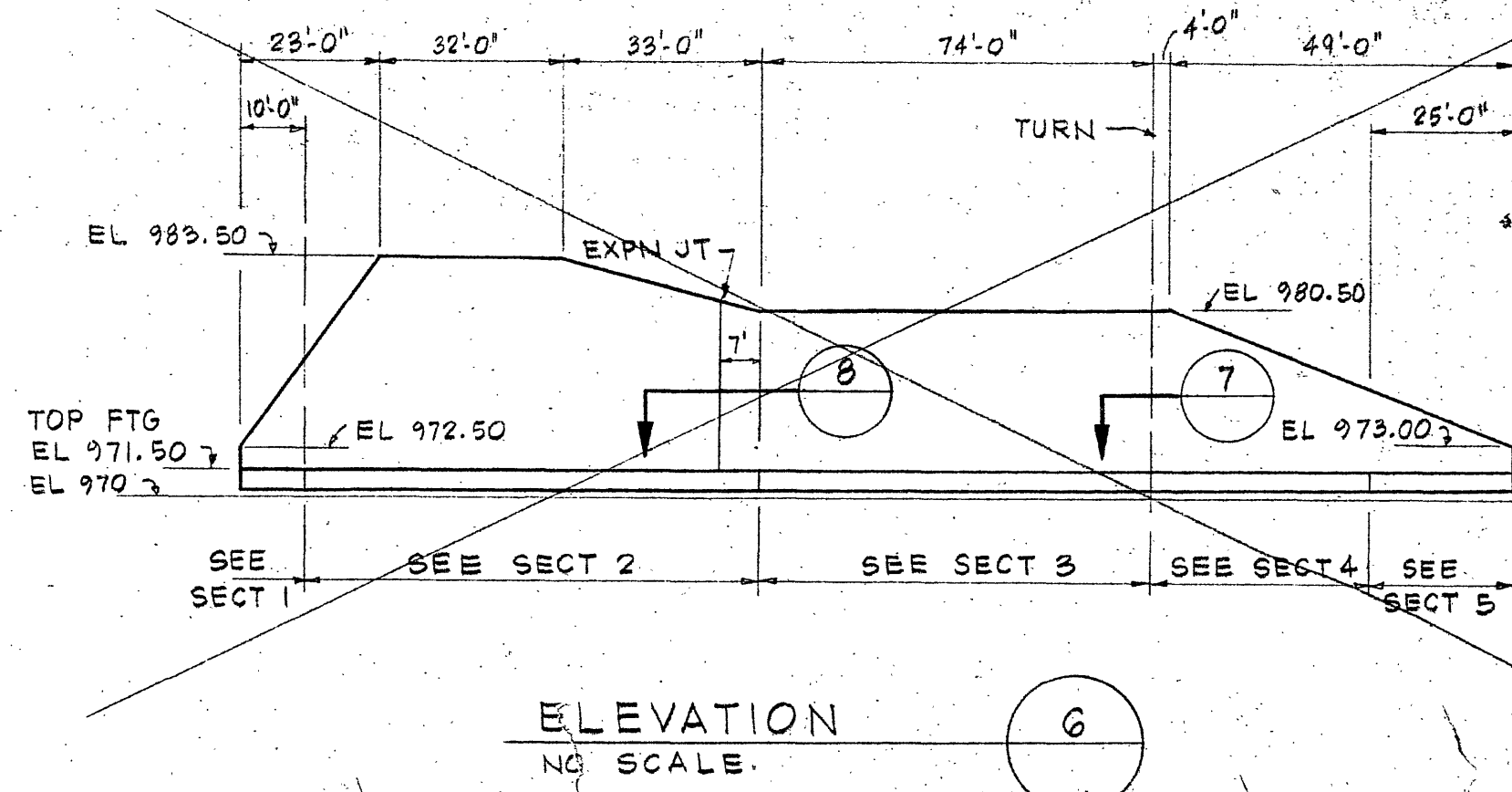
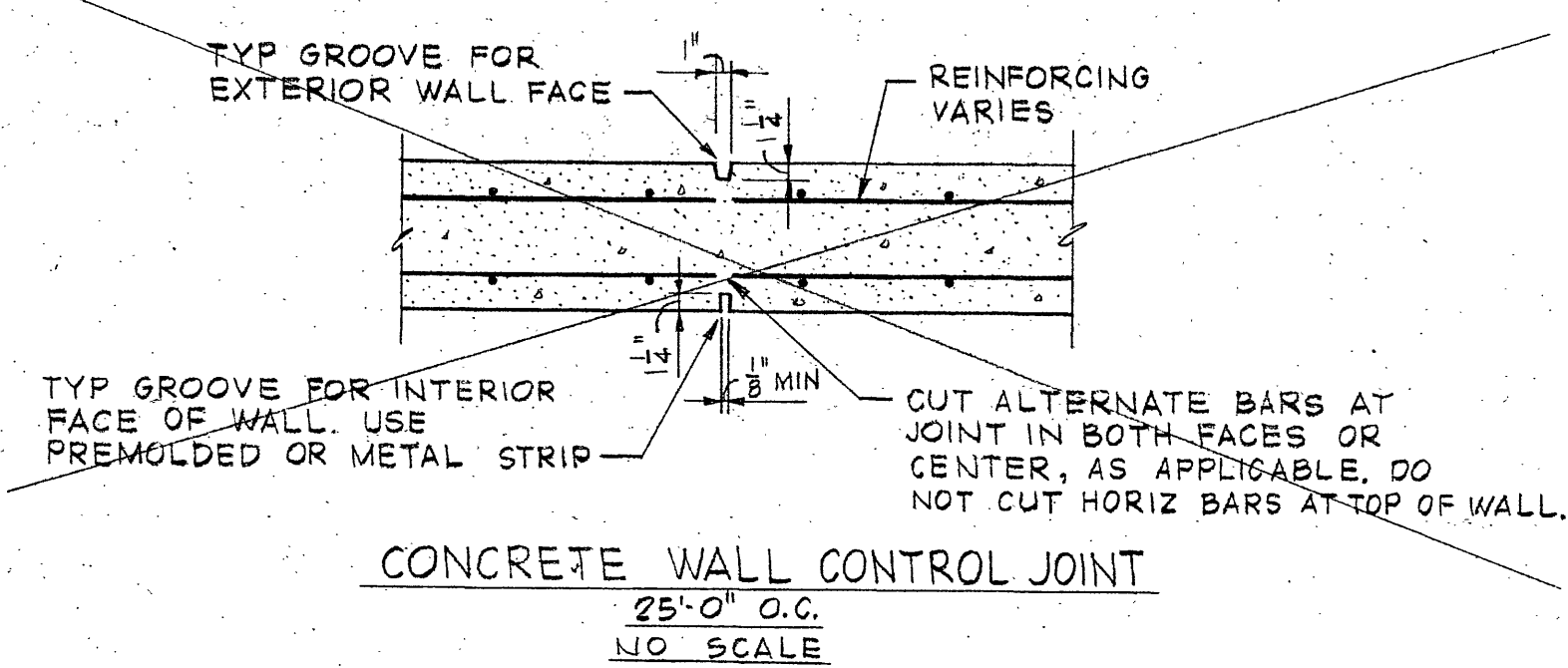
SANITARY SEWER & WATER PLAN
SCALE - 1" = 50'

- NOTES:**
1. SANITARY SEWER SERVICE LATERALS SHALL BE 6" DIAMETER AND SHALL BE INSTALLED AT A UNIFORM GRADE OF 1/4" RISE PER FOOT FROM THE SEWER MAIN.
 2. EXISTING SANITARY SEWERS SERVING AREAS OUTSIDE THE PROJECT SHALL BE MAINTAINED IN SERVICE UNTIL NEW REPLACEMENT SEWERS ARE CONSTRUCTED AND PLACED IN OPERATION.

NOTES FOR RETAINING WALL

1. Material Strength
Concrete Reinforcement ASTM A615
f'c = 4000 psi
fy = 60,000 psi
2. Top of footing elevation shown represents the minimum depth to which top of footing shall be carried. Bottom of footings shall be lowered as required to obtain suitable bearing. All unstable foundation material shall be removed and footings shall rest on undisturbed soil with a minimum bearing capacity of 1000 psi.
3. Unless otherwise noted, provide concrete protection for all reinforcing in accordance with paragraph 7.7 of Building Code Requirements for Reinforced Concrete (ACI 318-77).
4. All reinforcement shall be detailed and placed in accordance with ACI 318-74, unless otherwise shown.
 - a. Unless otherwise shown, all reinforcement shall be treated as tension reinforcement.
 - b. Continuous reinforcing in walls and footings may be spliced, as required, providing bars are of longest practicable length. Wherever possible, splices shall be staggered. Splices shall be in accordance with ACI 318-77.
5. Major construction joints are shown on the drawings. Intermediate joints in walls and footings are not shown. Construction joints may be added, omitted, or relocated if approved by the A.E.

RETAINING WALL SCHEDULE							
SECTION	A	B	C	D	E	G	H
1	1'-4 1/2"	2'-4 1/2"	5'-0"	—	#4 @ 6"	2'-0"	1'-6"
2	2'-10 1/2"	3'-10 1/2"	8'-0"	#4 @ 12"	#5 @ 6"	5'-0"	3'-0"
3	1'-10 1/2"	2'-10 1/2"	6'-0"	—	#4 @ 6"	2'-0"	2'-0"



- A. SANITARY SEWER LATERAL PLUSES ARE FROM THE NEAREST DOWNSTREAM MANHOLE.
- B. WATER LATERAL PLUSES ARE BASED ON CENTERLINE OF STREET STATIONING.

**AS BUILT
DRAWING**

△	10-15-79	AS BUILT	JHW
△	12-8-78	RELOCATED VARIOUS WATER SERVICE LINES	JHW
△	11-22-78	VOIDED RETAINING WALL DETAILS AND UTILITY SERVICE LINES FOR LOT 9, BLOCK 2.	JHW
△	10-31-78	ADDED 9 ADDITIONAL WATER SERVICE LINES, ONE SANITARY LATERAL & DETAILS OF CONC RETAINING WALL.	JHW
1	6-2-78	ADDED NEW STREET NAMES PER CITY OF ROKE PLANNING DEPT	JHW
REVISION	DATE	DESCRIPTION	BY

DESIGNED	J.H.W.	SITE IMPROVEMENTS CONTRACT SI-3 SECTION FIVE GAINSBORO NEIGHBORHOOD DEVELOPMENT PROGRAM SANITARY SEWER & WATER PLAN
DRAWN	J.H.W.	
CHECKED	JHW	
APPROVED	JHW	
SUBMITTED	JHW	

HAYES, SEAY, MATTERN & MATTERN ARCHITECTS - ENGINEERS - PLANNERS ROANOKE, VIRGINIA RICHMOND, VIRGINIA WASHINGTON, D.C.		SCALE AS NOTED DATE 24 MAR 1978	COMM. NO. 3756C SHEET 2
--	--	------------------------------------	----------------------------