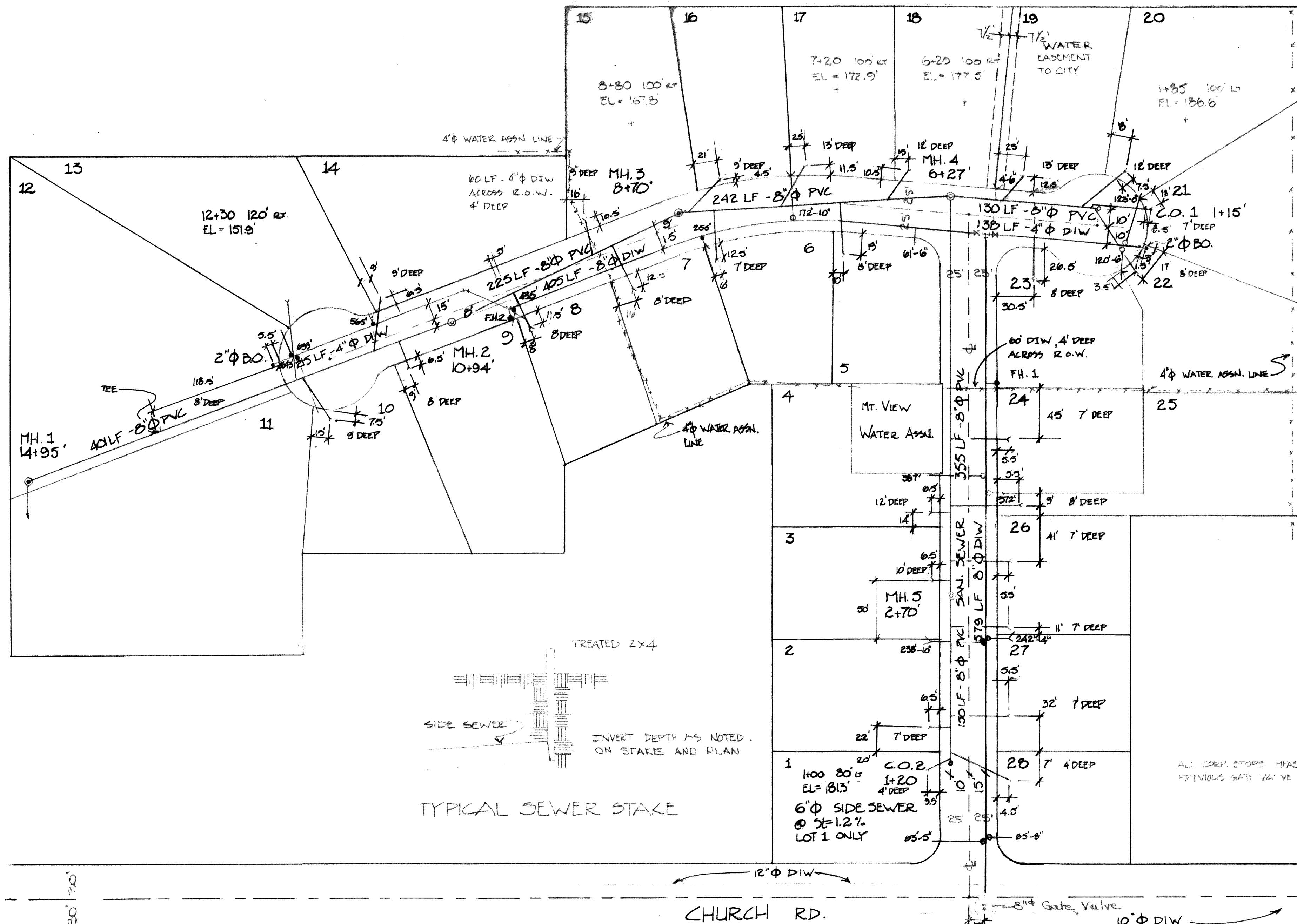




GENERAL SPECIFICATIONS

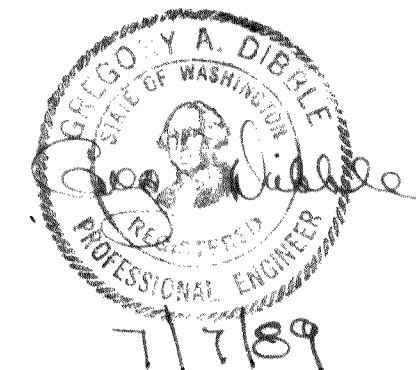
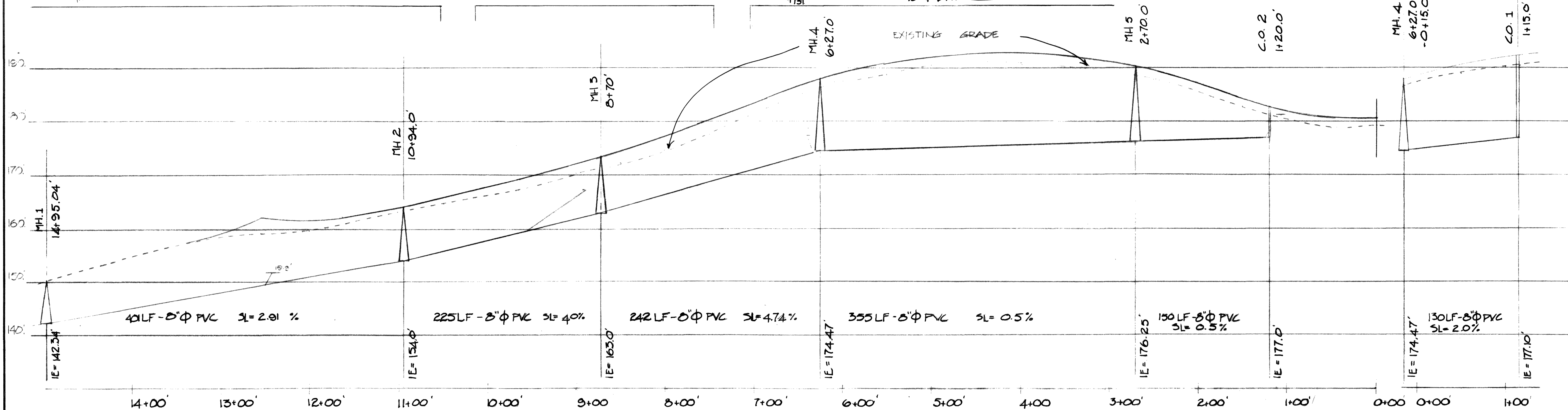
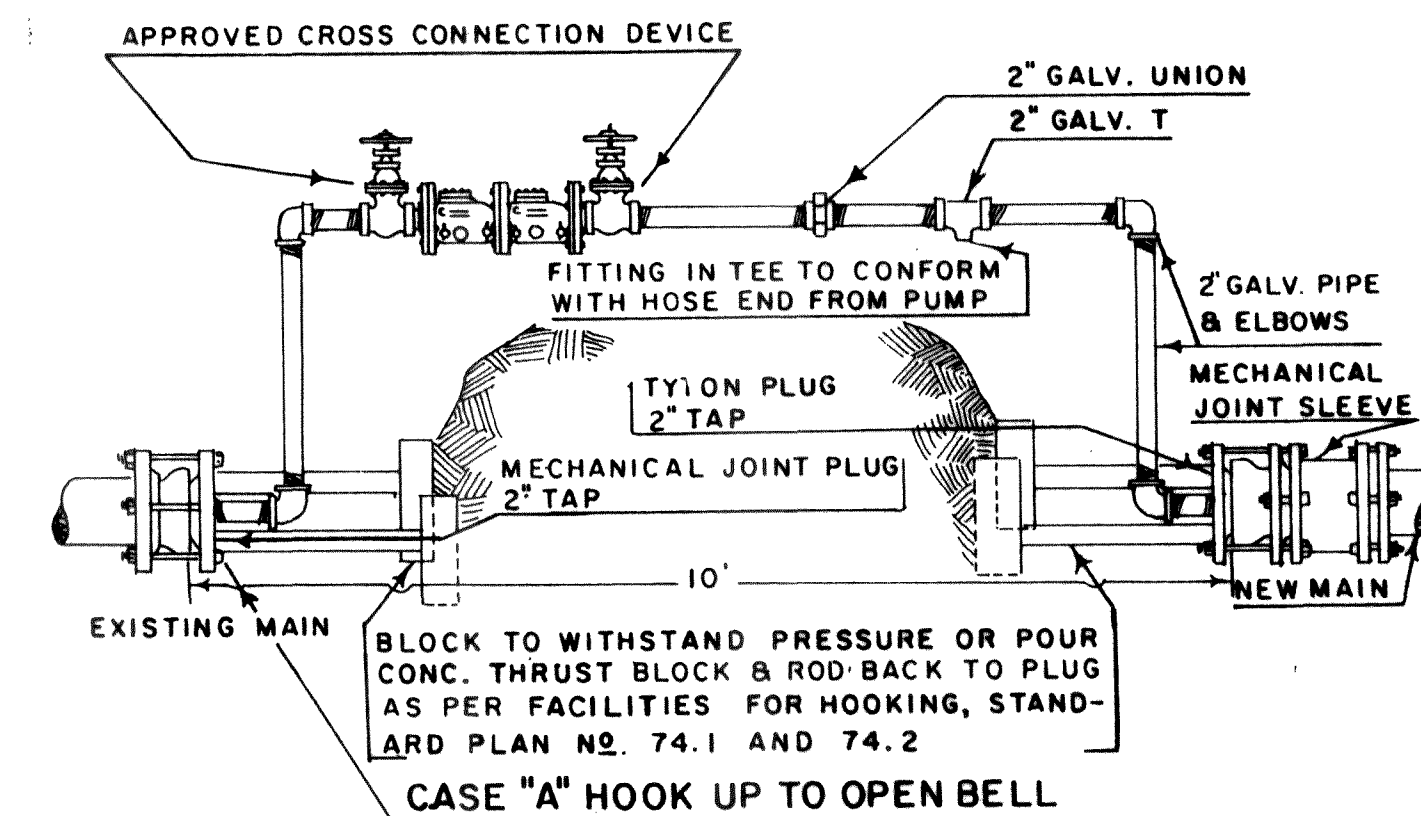
1. All work and materials shall be done in accordance with 1988 Standard Specifications for Road, Bridge and Municipal Construction by Washington State Department of Transportation.
2. Contractor will obtain a Public Work Project Permit prior to the commencement of construction. Contractor shall schedule a construction conference prior to beginning work and shall contact the Office of the City Engineer 24 hours prior to commencing work in the City right-of-way.
3. Contractor shall restore all public and private property disrupted by the project. Page - 1
4. Contractor shall submit a list of item costs to the City Engineer covering all costs of construction and submit a one-year maintenance bond covering defects in material and workmanship prior to City acceptance of the project.
5. Contractor shall inform the Engineer of any proposed changes in plan prior to construction of that change. Contractor shall keep record of deviations and forward to Engineer. Engineer will provide City with a certified As-Built mylar at the completion of the project.
6. Contractor shall contact Utilities Coordinating 48 hours in advance of construction (1-800-424-5555).
7. All subgrade embankment and trench backfill including sanitary sewer lines, side sewers, water mains, water services, and storm drains shall be City approved material compacted to a minimum of 95 percent of maximum density as determined by a Modified Proctor Test (ASTM D1559).

WATER MAIN & APPURTENANCES

1. Water main shall be Ductile Iron Pipe thickness Class 50. Minimum cover shall be 36 inches.
2. Concrete thrust blocking shall be the responsibility of the contractor, but shall not have less than 4 square feet of bearing against undisturbed earth.
3. Contractor shall confer with the City Engineer regarding method of filling and pressure testing pipe prior to proceeding with construction. Test Pressure shall be a minimum of 200 psi.
4. Fire Hydrant shall be 5-1/2" MVO subject to City Approval.
5. Blow-off shall be in accordance with APWA Standard Plan No. 74.
6. Water Service installation shall be the responsibility of the contractor. All work and materials shall be in accordance with current city standards.
7. Contractor shall contact the Engineer for the inspection and location of corp. stops and water service lines prior to backfilling trenches.

SANITARY SEWER SPECIFICATIONS

1. Eight and four inch sanitary sewer pipe shall be PVC ASTM D3034 SDR 35 with rubber gasket joints meeting ASTM D1839. PVC pipe bedding details shall be in accordance with City Standard Drawing SE-4.
2. Manholes shall be in accordance with City Drawing SE-6. Manholes shall be Type 48-1 or II as noted on profile.
3. Eight inch clean-out shall be in accordance with City Standard Plan SE-1.
4. Contractor shall contact the Engineer for inspection and location of tees and side sewers prior to backfilling trenches.



GREG DIBBLE, P.E.
CONSULTING ENGINEER
100 CENTRAL AVE. 734-1288
BELLINGHAM, WA 98225

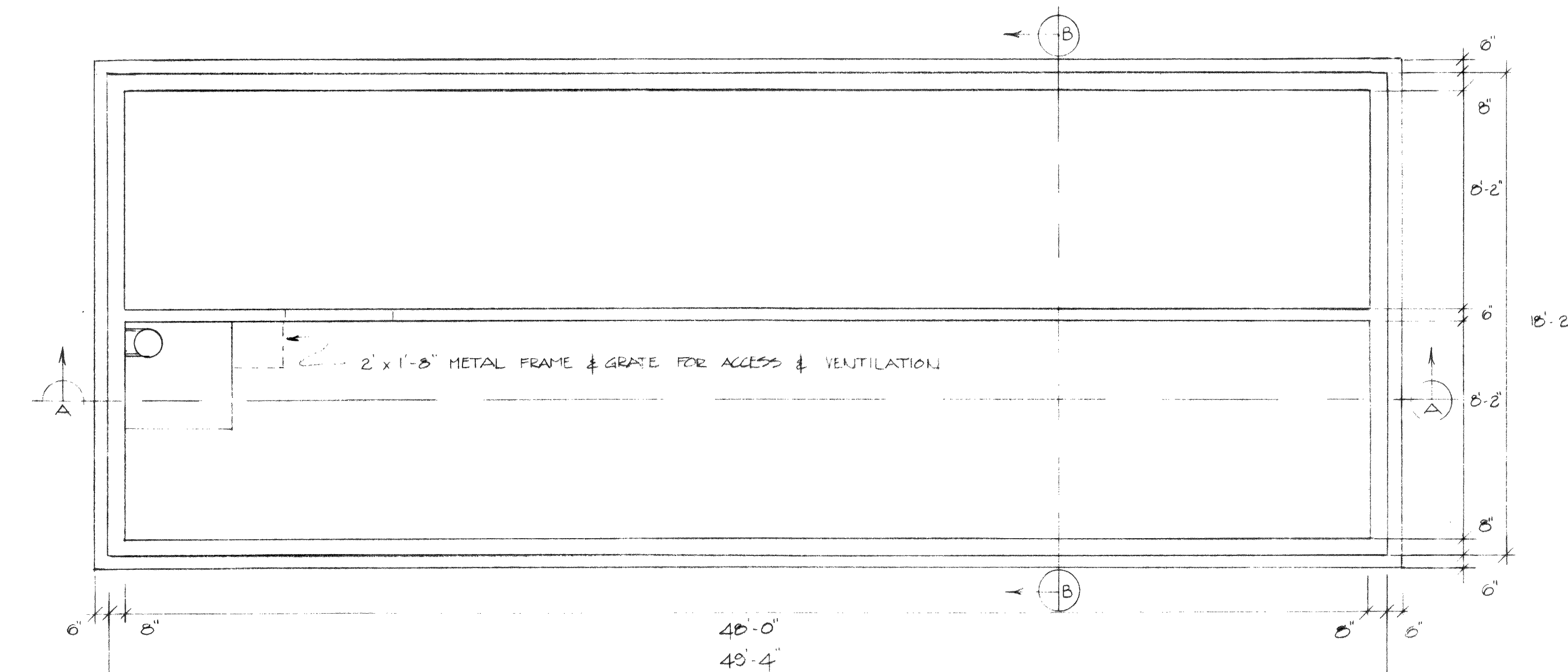
HOWARD VROMAN

SCALE: AS NOTED	APPROVED BY:	DRAWN BY: KG
DATE: 7/17/89		REVISED: 7/11/89
NUBGAARD RIDGE PLAT		
SANITARY SEWER & WATER		DRAWING NUMBER: 22489 2/3

34 X 34 PRINTED ON NO. 1000H CLEARPRINT

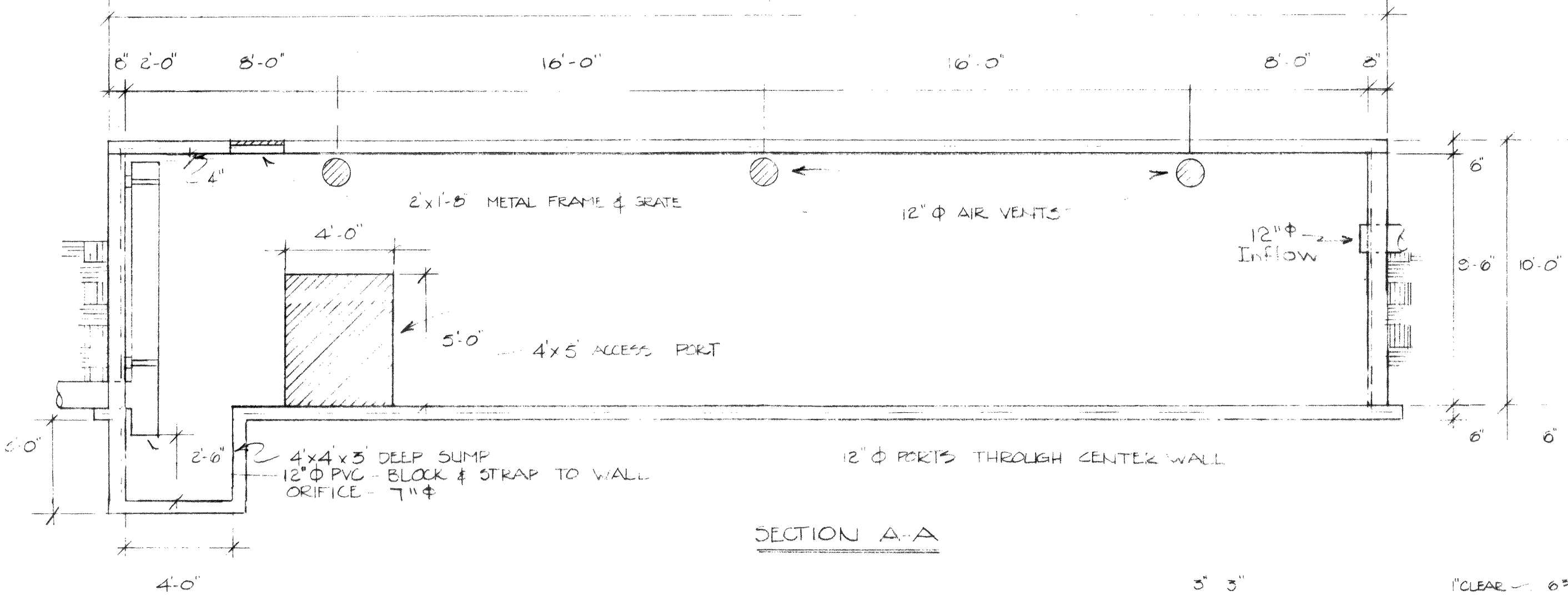
AS BUILT
Greg Dibble
8/10/10/89

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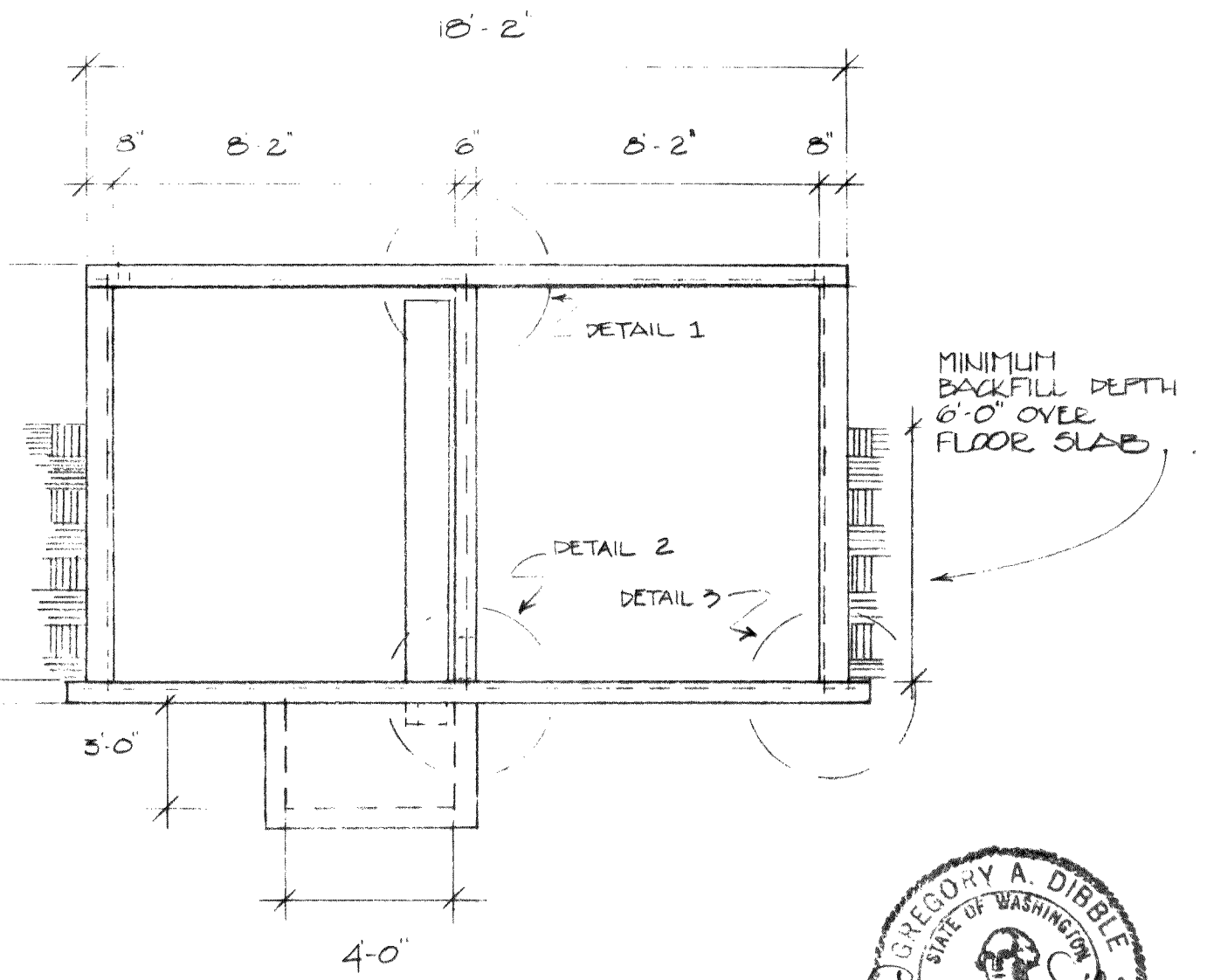


GENERAL NOTES

1. All concrete shall be 3,000 PSI compressive strength @ 28 days.
2. All steel reinforcement shall be Grade 40 unless noted otherwise.
3. Minimum clear cover of reinforcing steel in concrete in contact with earth will be 3". Minimum cover for reinforcing steel in concrete below grade but not in contact with earth shall be 2". All other reinforcing steel will have a minimum of 1.0" cover.
4. Soil shall be U.B.C. Class IV (silty sand) 1500 psf allowable bearing pressure.



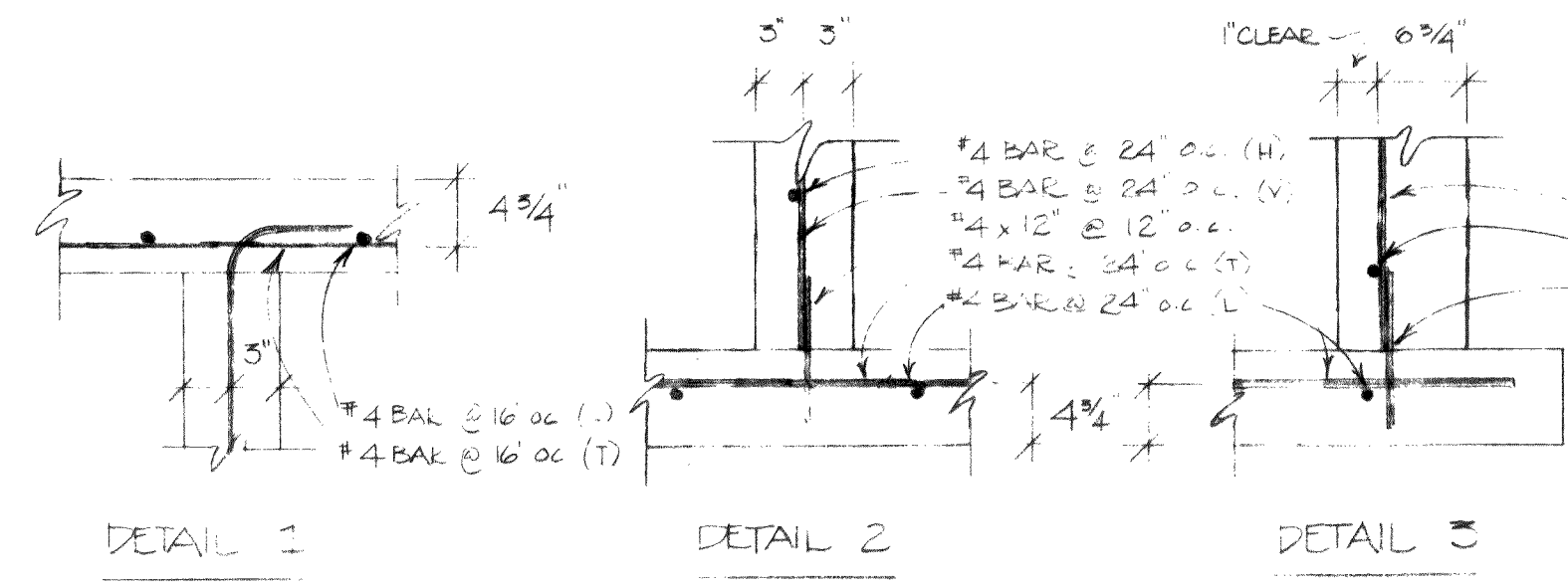
SECTION A-A



SECTION B-B

REBAR SCHEDULE:

- TOP OF SLAB: 1-#4 BAR @ 16" o.c. TRANSVERSE
1-#4 BAR @ 16" o.c. LONGITUDINAL
- EXTERIOR WALLS: 1-#4 BAR @ 12" o.c. VERT.
1-#4 BAR @ 20" o.c. HOR.
- INTERIOR WALL: 1-#4 BAR @ 24" o.c. VERT.
1-#4 BAR @ 24" o.c. HOR.
USE 2-#4 x 6" OVER ACCESS PORT
w/ 2" COVER.
- FLOOR SLAB: 1-#4 BAR @ 24" o.c. TRANSVERSE
1-#4 BAR @ 24" o.c. LONGITUDINAL



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STORM WATER DETENTION TANK			
SCALE: 1/4" = 1'-0"	APPROVED BY:		DRAWN BY KG
DATE: 8/17/89			REVISED
HOWARD YROMAN			
HUBGAARD RIDGE PLAT			DRAWING NUMBER 22489 3/3