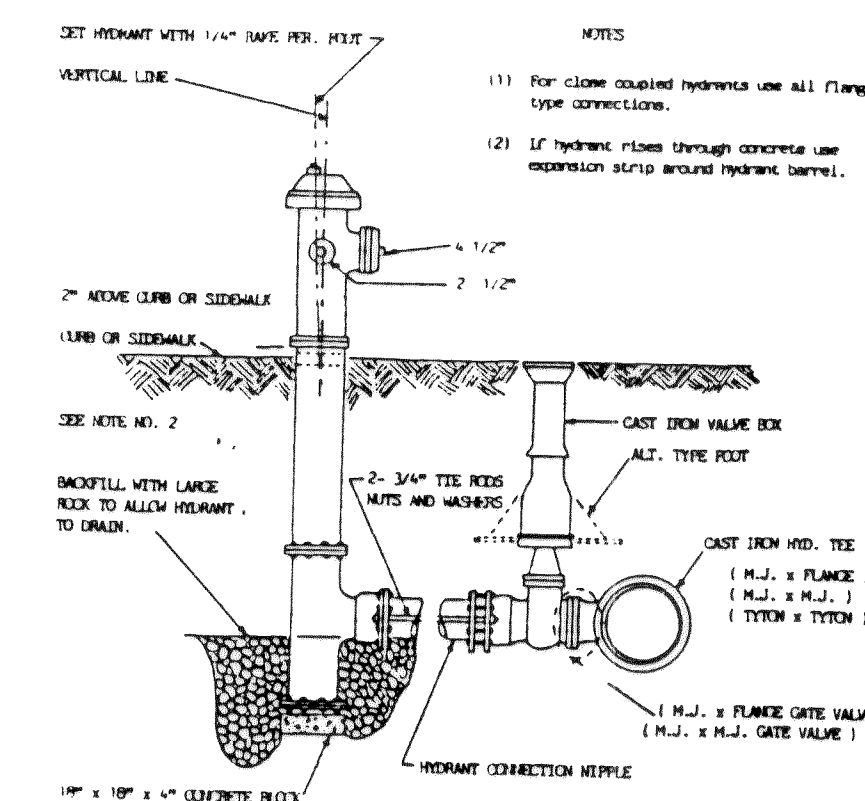
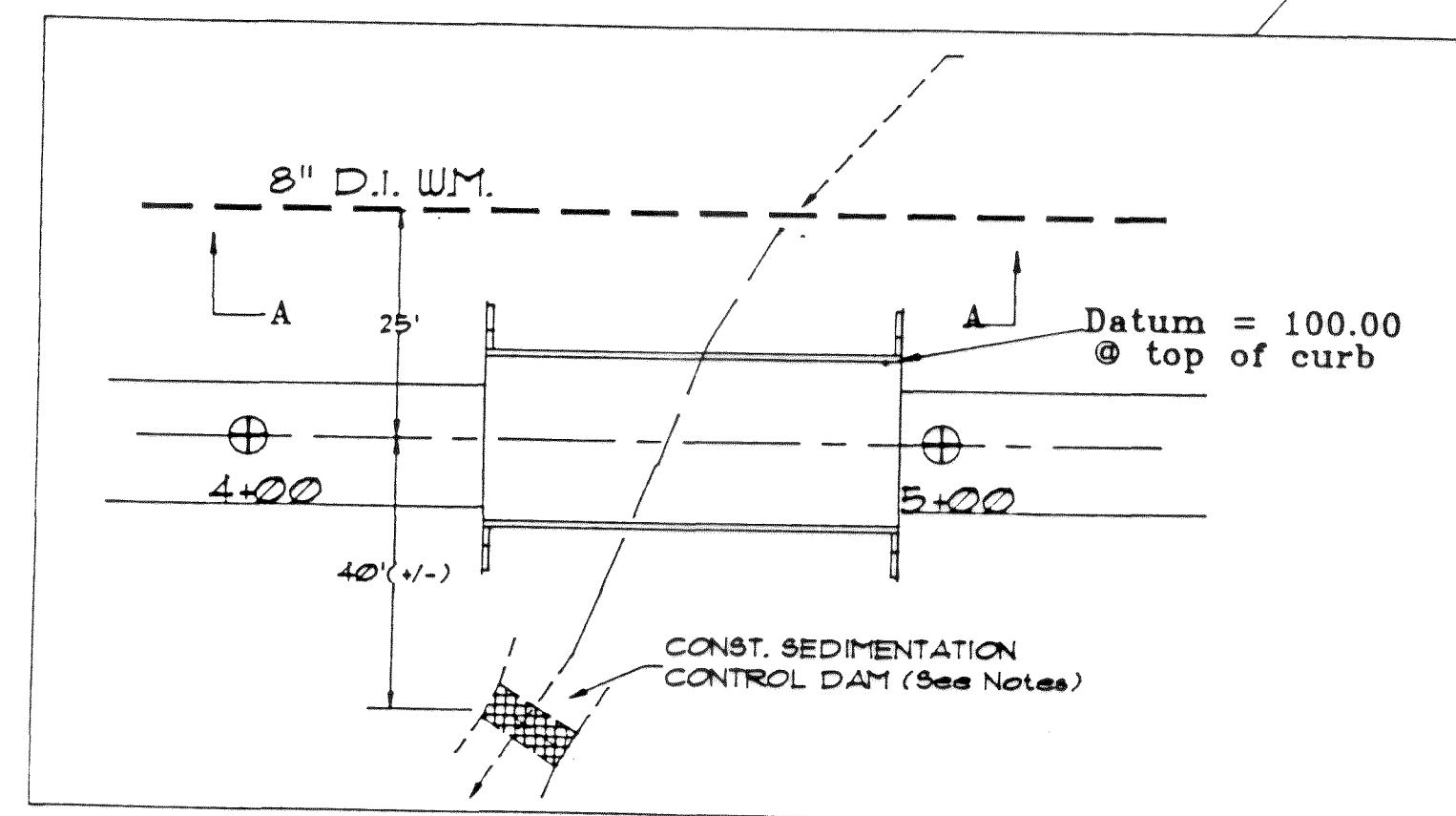
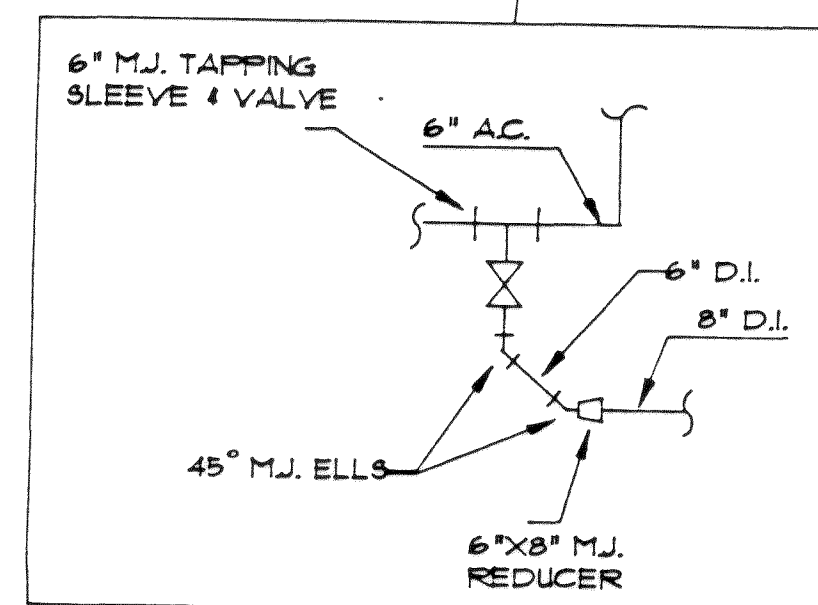
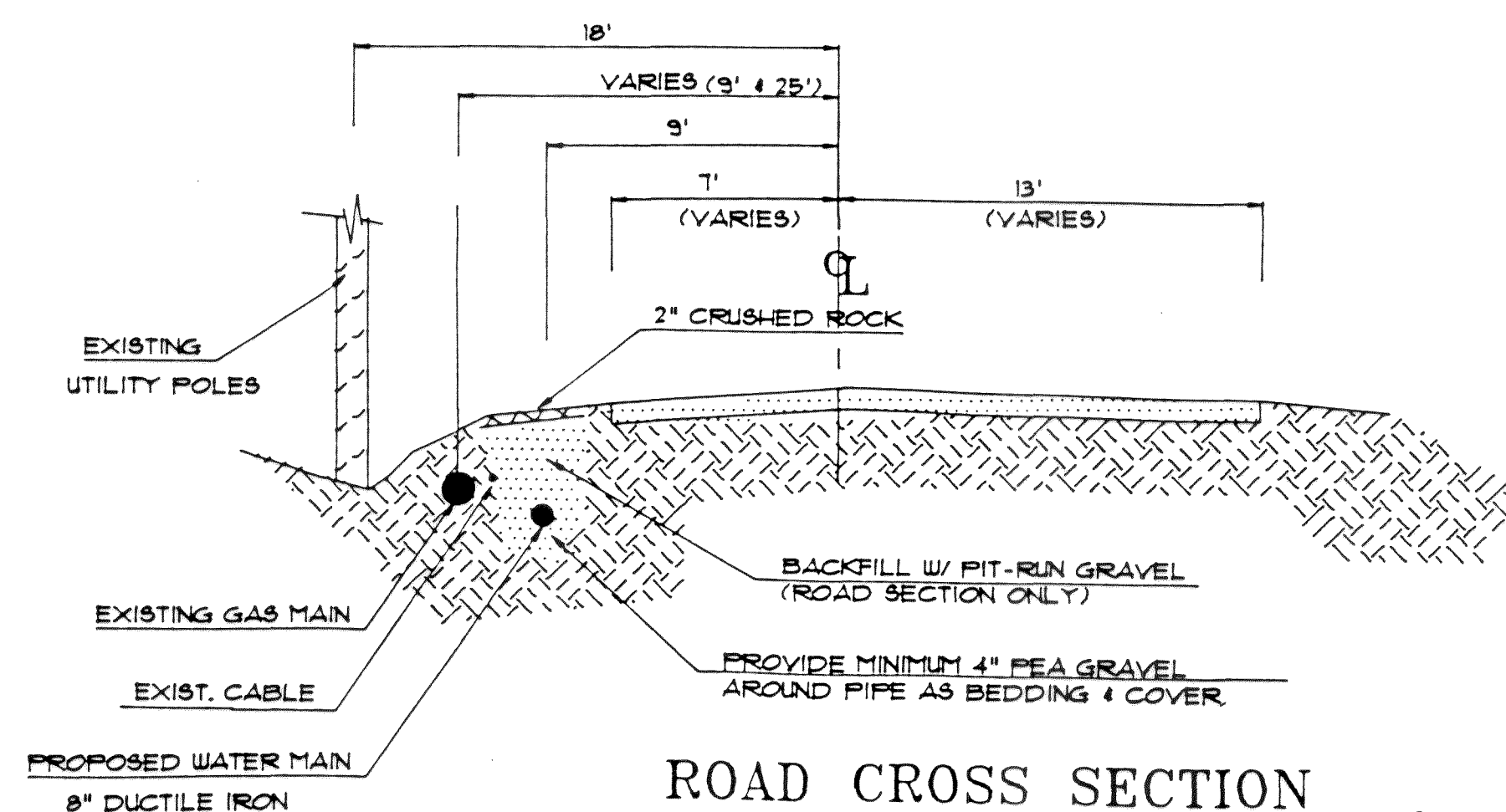


PLAN VIEW

SCALE: 1" = 40'

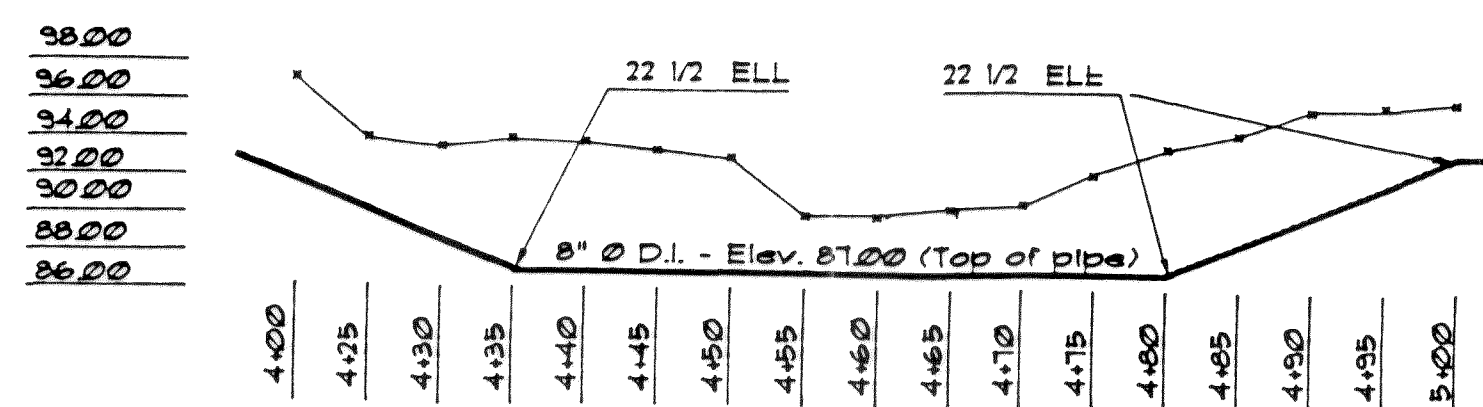


FIRE HYDRANT DETAIL



ROAD CROSS SECTION

SCALE: 1" = 6'



SECTION A-A  
CREEK PROFILE

# GENERAL NOTES:

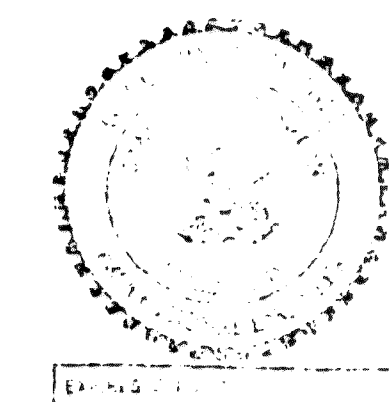
1. All work and materials shall be done in accordance with 1988 Standard Specifications for Road, Bridge and Municipal Construction by Washington State Department of Transportation and Standard Plans provided by the City of Ferndale. All work shall be subject to approval of the Director of Public Works.
2. Contractor shall restore all public and private property disrupted by the project.
3. 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 street and utility improvements.
4. Contractor shall contact Utilities Coordinating 48 hours in advance of construction (1-800-424-555).
5. All subgrade embankment and trench backfill including sanitary sewer lines, side sewers, water mains, water services, and storm drains shall be Engineer-approved material compacted to a minimum of 95 percent of maximum density as determined by a Modified Proctor Test (ASTM D1558).
6. All locations of utilities shown are approximate. It shall be the responsibility of the Contractor to verify the true and correct location.

## SPECIAL NOTES:

1. A concrete valve-marker post shall be furnished and installed with each gate valve. The marker post shall have a 4" minimum square section, a minimum length of 42", with beveled edges, and contain at least one 3/8" diameter steel reinforcing bar.
2. Two fire hydrant crash posts shall be furnished and installed. Crash posts shall be 4-inch, cement-filled pipe minimum 3 feet in height with 2 feet of piping below grade. The crash posts shall be installed 1 foot in front and 3 feet to each side of the fire hydrant center.
3. Edge-of-pavement of Laurel Road varies in distance from indicated centerline of road.
4. A sedimentation dam shall be constructed in the creek downstream of the bridge as shown on the Drawing. The dam shall be constructed of 1.5" drain rock installed in the creek bed to a height of approximately 2' below the top of the existing banks or approximately 3' above the creek bottom.

## WATER MAIN & APPURTENANCES.

1. Water main shall be ductile iron pipe thickness Class 50. Minimum cover shall be 36 inches. 42" dia.
2. All Gate Valves to be AWWA C509-87. All Valve Boxes to be 2 piece Cast Iron.
3. Fittings shall be cast or ductile iron flanged or mechanical joint. Concrete thrust blocking shall be the responsibility of the contractor, but shall not have less than 4 square feet of bearing against undisturbed earth.
4. Contractor shall confer with the City of Ferndale Department of Public Works regarding method of filling and pressure testing pipe prior to proceeding with construction. Test Pressure shall be a minimum of 200 psi.
5. Fire Hydrant assemblies shall be Iowa F 5110 or M&H 929 with 5-1/2" MVO, subject to City of Ferndale approval.
6. Connection to existing City water main shall be by the contractor after satisfactory completion of pressure and sanitary testing.
7. All sterilization and testing (as required) shall be conducted under the supervision of the City Public Works Office.
8. Contractor shall contact the Engineer for inspection and location of corporation stops and water service lines prior to backfilling trenches.
9. All Work and Material shall be in accordance with City of Ferndale Standards.



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AL GITTS

SCALE: As shown APPROVED BY: DATE: 10-15-92 DRAWN BY: H.A.B. REVISION:

WATER MAIN EXTENSION  
WEST LAUREL ROAD  
DRAWING NUMBER: 92-944-01