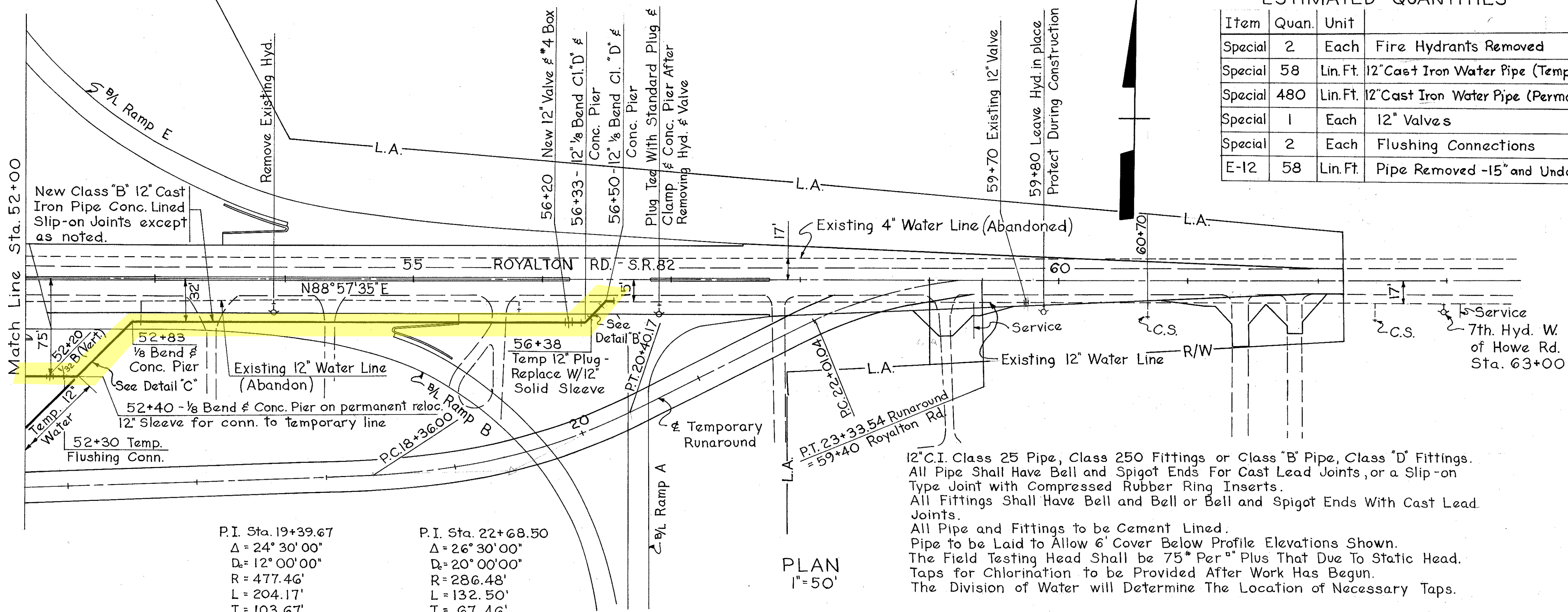


FED. RD. DIVISION	STATE	PROJECT
2	OHIO	I-71-5(15)233

237  
302

ESTIMATED QUANTITIES

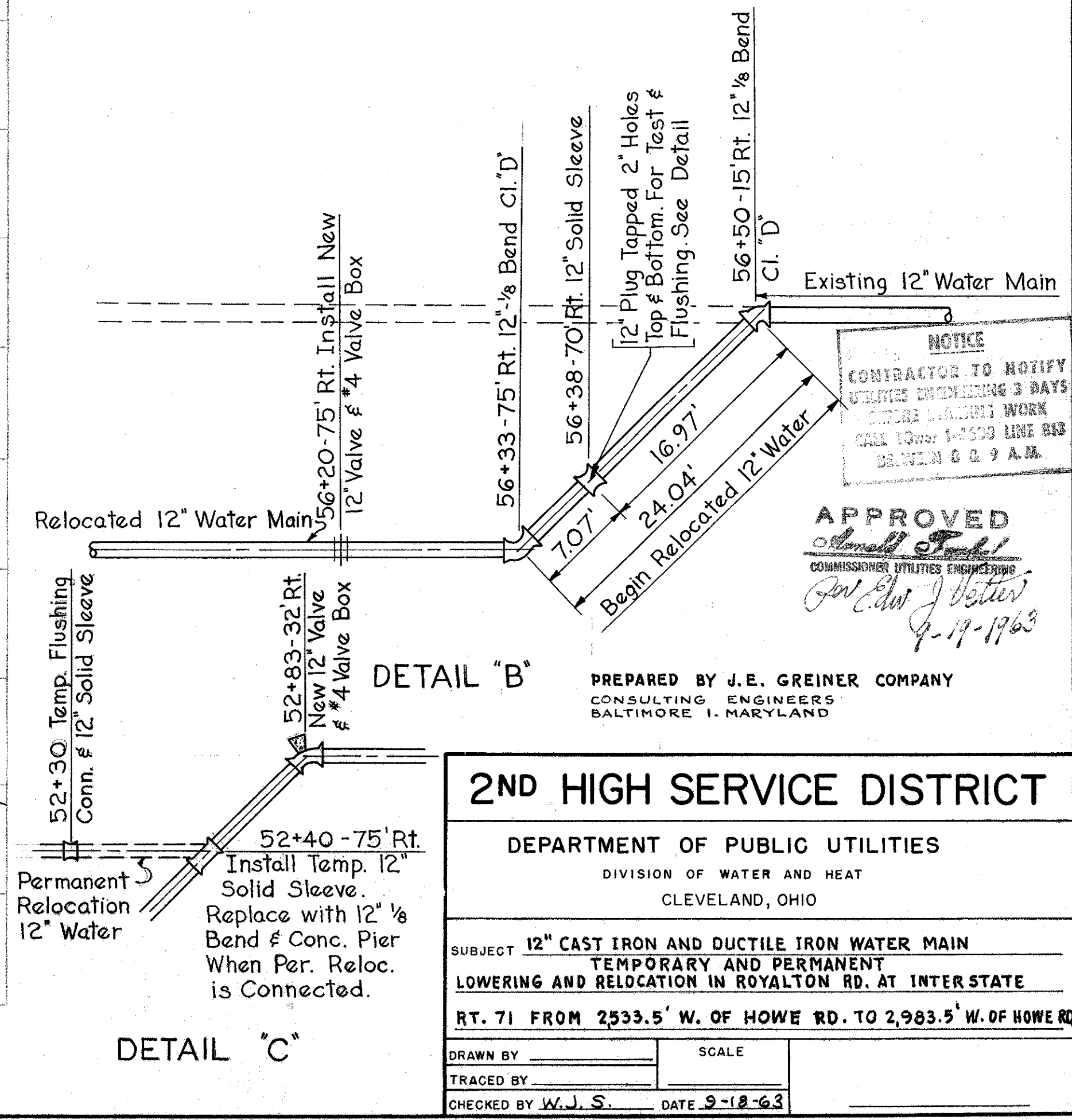
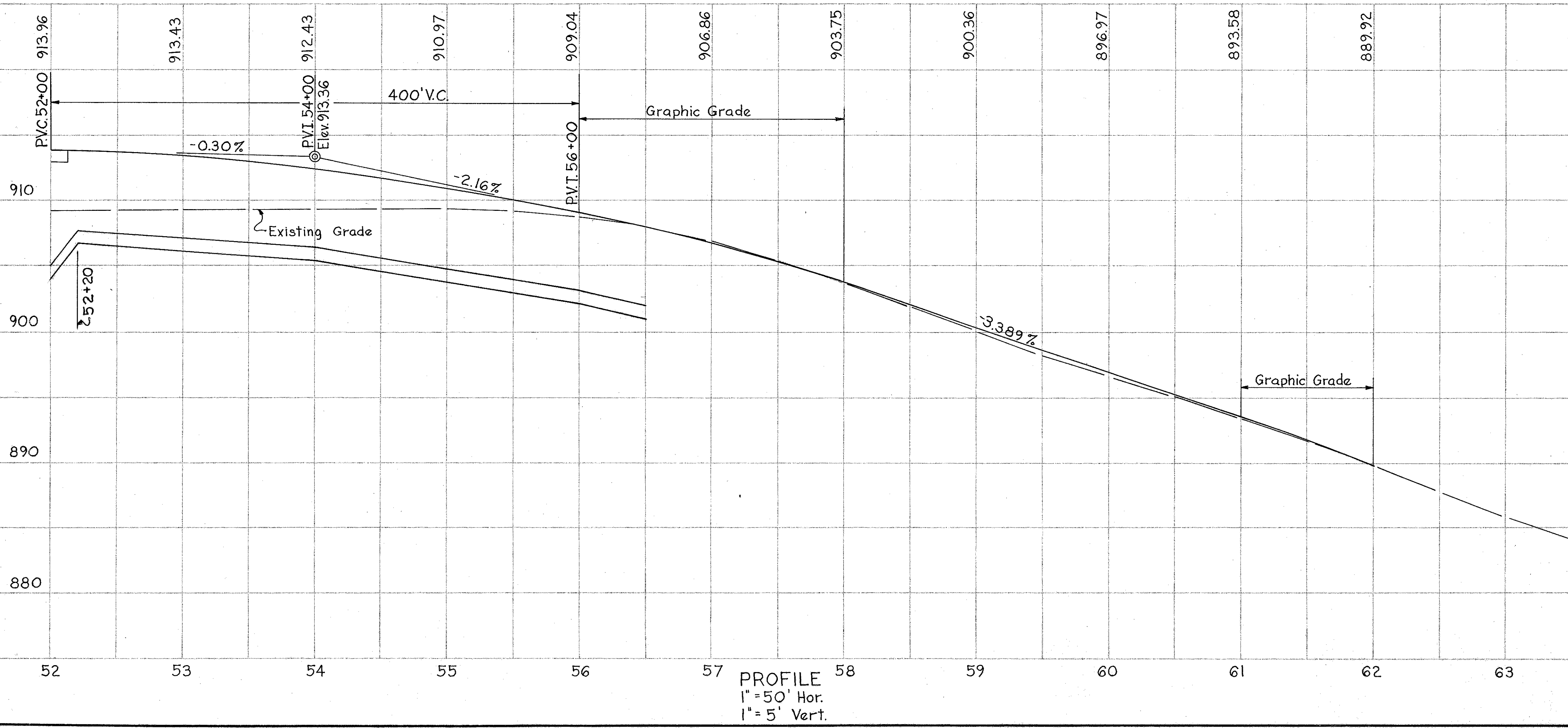
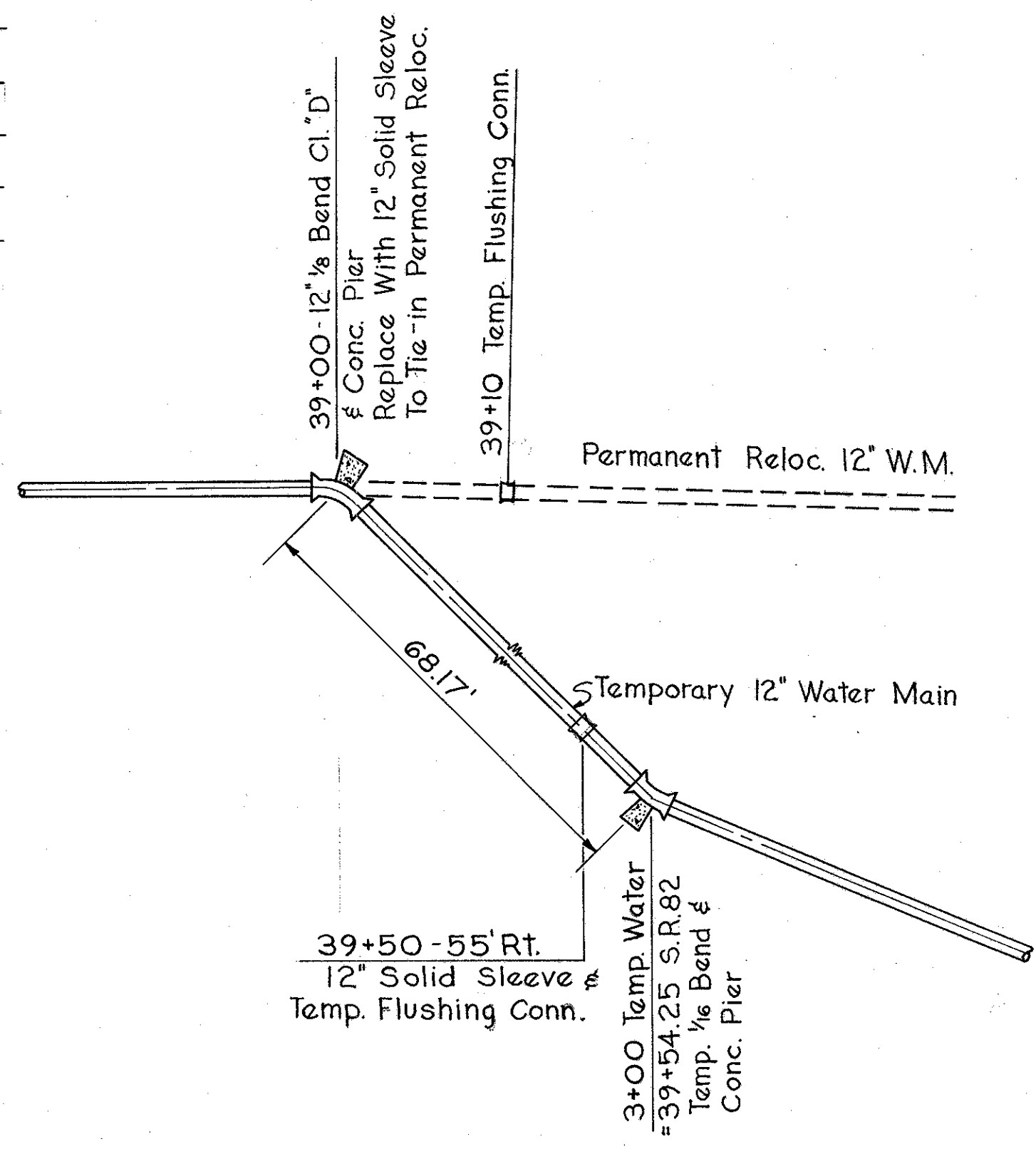
Item	Quan.	Unit	Description
Special	2	Each	Fire Hydrants Removed
Special	58	Lin. Ft.	12" Cast Iron Water Pipe (Temporary)
Special	480	Lin. Ft.	12" Cast Iron Water Pipe (Permanent)
Special	1	Each	12" Valves
Special	2	Each	Flushing Connections
E-12	58	Lin. Ft.	Pipe Removed -15" and Under



12" C.I. Class 25 Pipe, Class 250 Fittings or Class "B" Pipe, Class "D" Fittings.  
All Pipe Shall Have Bell and Spigot Ends For Cast Lead Joints, or a Slip-on Type Joint with Compressed Rubber Ring Inserts.  
All Fittings Shall Have Bell and Bell or Bell and Spigot Ends With Cast Lead Joints.  
All Pipe and Fittings to be Cement Lined.  
Pipe to be Laid to Allow 6' Cover Below Profile Elevations Shown.  
The Field Testing Head Shall be 75" Per " Plus That Due To Static Head.  
Taps for Chlorination to be Provided After Work Has Begun.  
The Division of Water will Determine The Location of Necessary Taps.

P.I. Sta. 19+39.67  
Δ = 24° 30' 00"  
D = 12° 00' 00"  
R = 477.46'  
L = 204.17'  
T = 103.67'

P.I. Sta. 22+68.50  
Δ = 26° 30' 00"  
D = 20° 00' 00"  
R = 286.48'  
L = 132.50'  
T = 67.46'



**2ND HIGH SERVICE DISTRICT**  
DEPARTMENT OF PUBLIC UTILITIES  
DIVISION OF WATER AND HEAT  
CLEVELAND, OHIO

SUBJECT: 12" CAST IRON AND DUCTILE IRON WATER MAIN LOWERING AND RELOCATION IN ROYALTON RD. AT INTER STATE RT. 71 FROM 2533.5' W. OF HOWE RD. TO 2,983.5' W. OF HOWE RD.

DRAWN BY: \_\_\_\_\_ SCALE: \_\_\_\_\_  
TRACED BY: \_\_\_\_\_  
CHECKED BY: W.J.S. DATE: 9-18-63