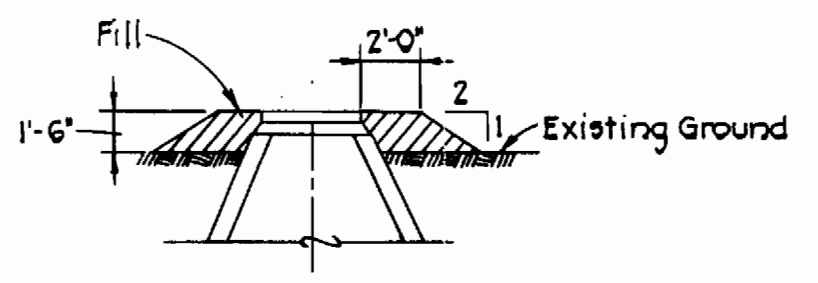


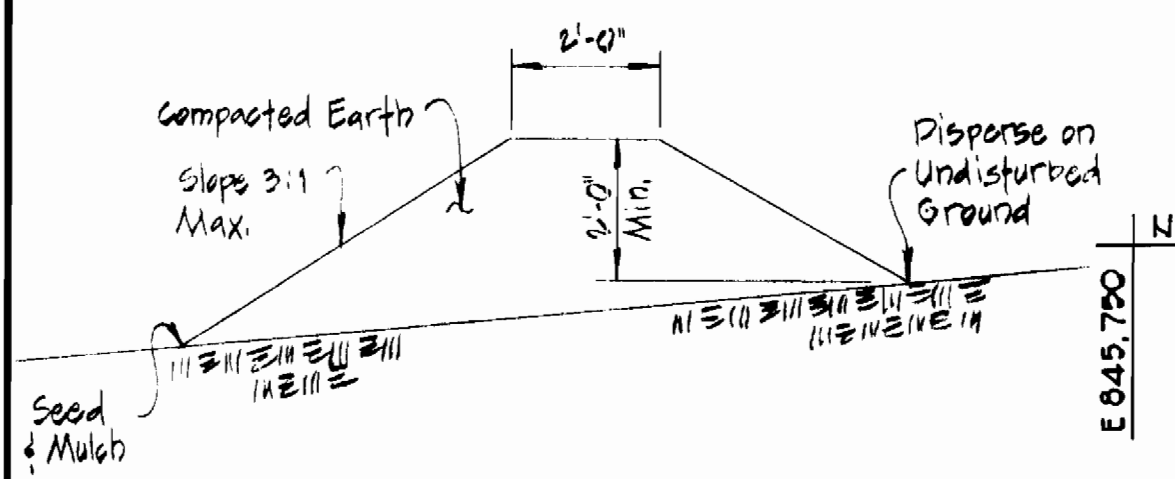
PLAN



SECTION A-A

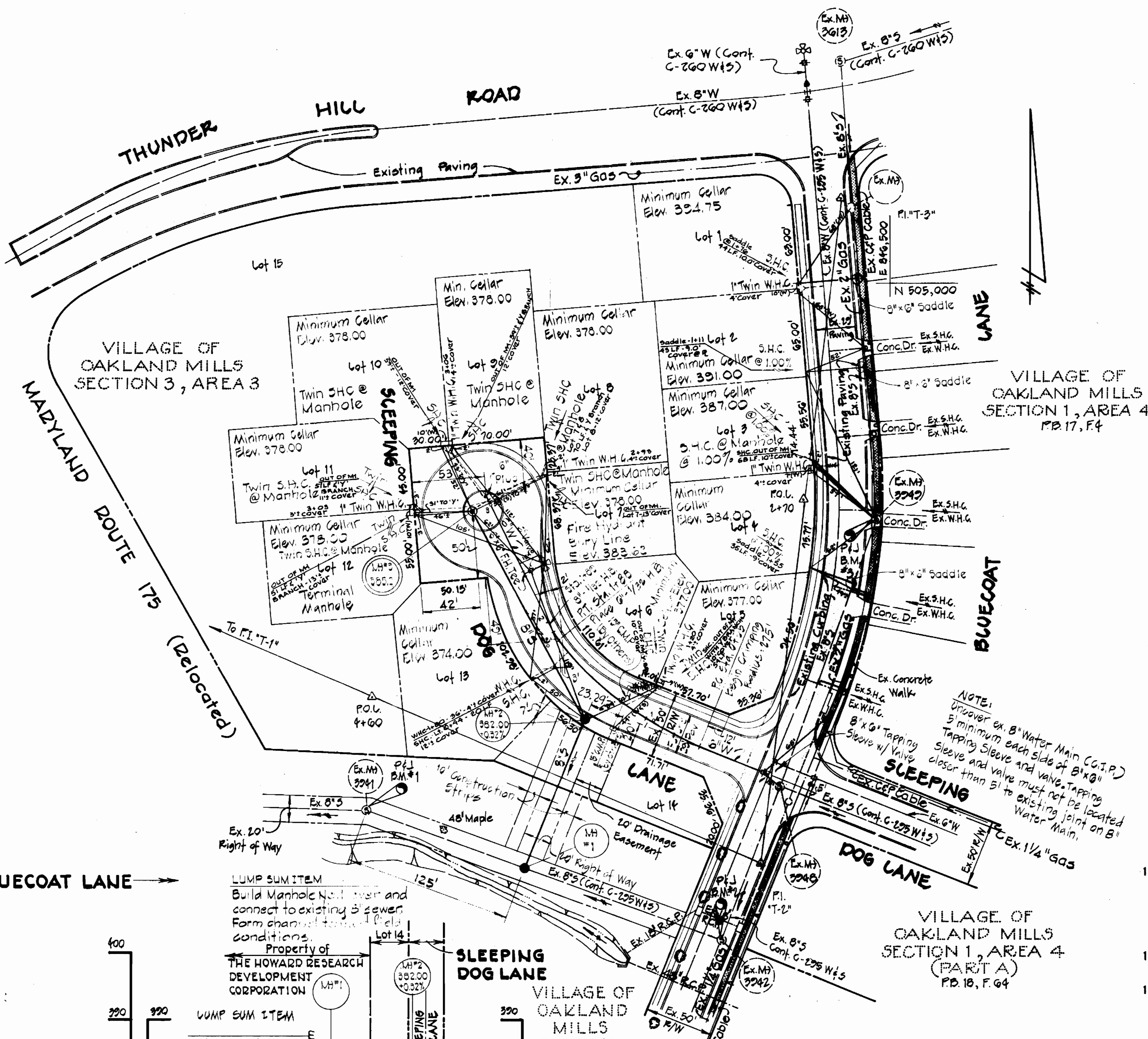
FILL AT MANHOLE  
No Scale

Diversion berms are required every 50 feet on continuous slopes of 4% or greater. The berms shall conform to the typical section shown hereon and shall be constructed across the construction areas immediately after the backfilling of the pipe trench and prior to placing stabilization in order to prevent erosion of the backfilled areas.

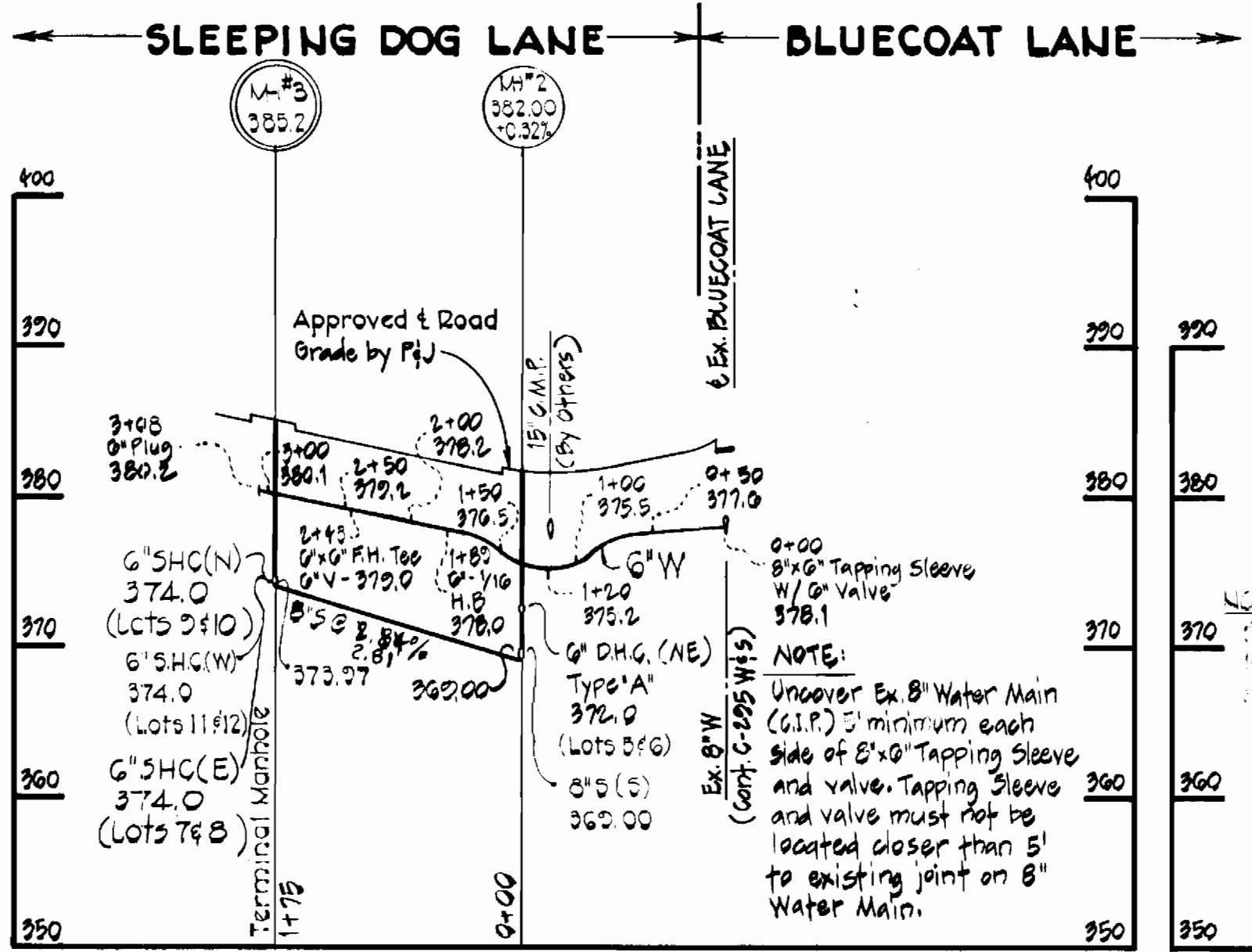


TEMPORARY EARTH DIVERSION BERM

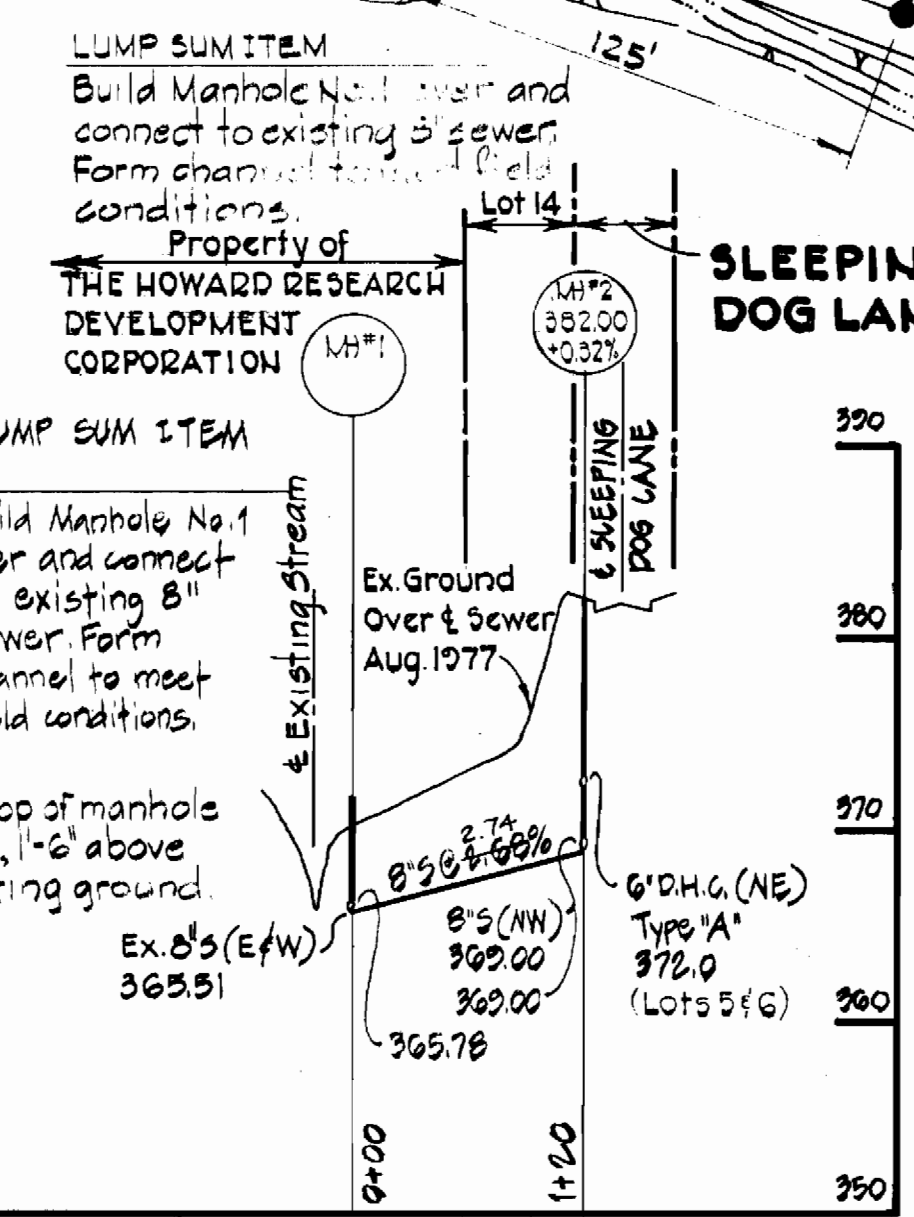
No Scale



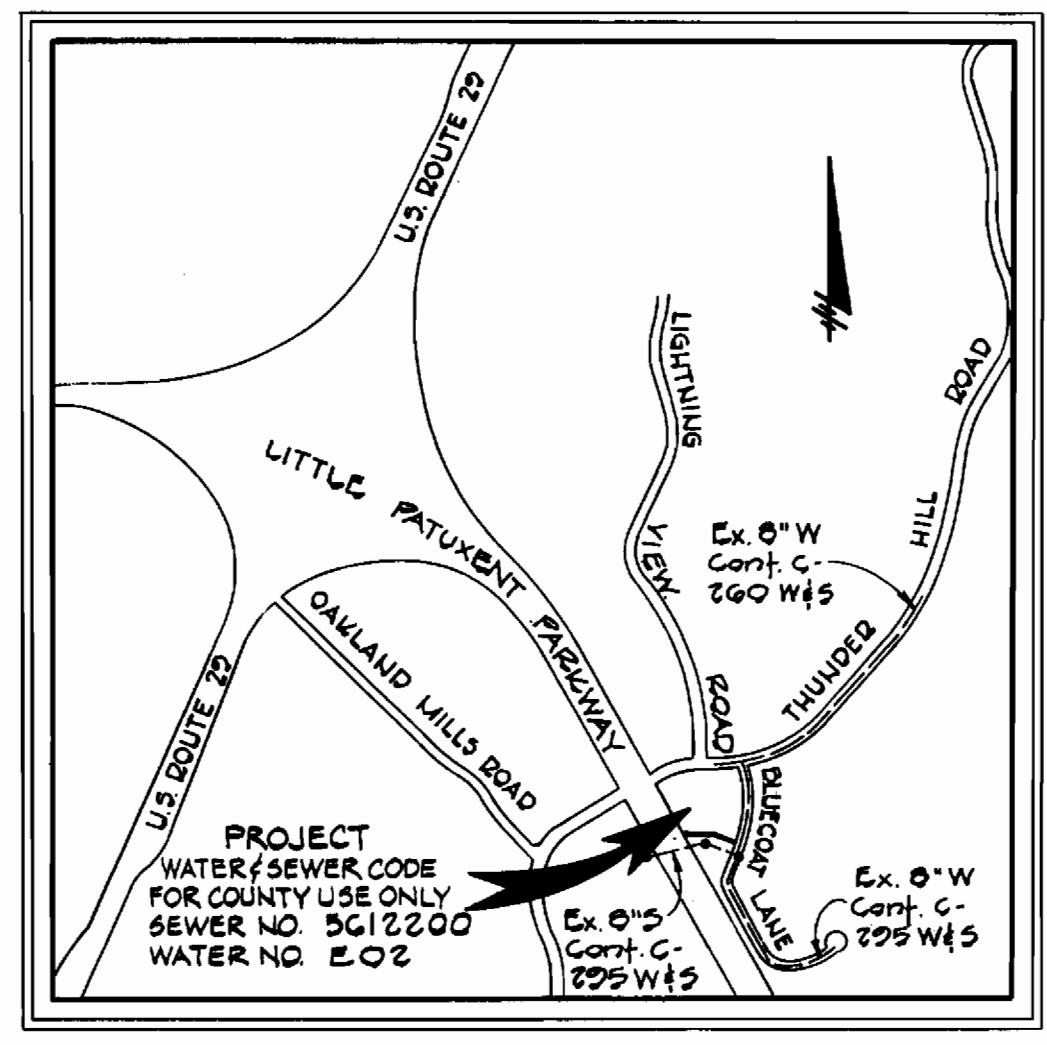
PLAN  
Scale: 1"=50'



PROFILES: Horiz.: 1"=100'  
Vert.: 1"=10'



PLAN  
Scale: 1"=50'



VICINITY MAP  
Scale: 1"=1200'

GENERAL NOTES

- Approximate locations of existing utilities are shown. The Contractor shall take all necessary precautions to protect the existing utilities and to maintain uninterrupted service. Any damage incurred due to the Contractor's operation shall be repaired immediately at the Contractor's expense.
- All pipe elevations shown are Invert elevations.
- The Contractor shall locate existing utilities well in advance of construction activities.
- See standard details bound in specifications.
- Clear all utilities by a minimum of 6 inches. Clear all utility poles by 2'-0" minimum or tunnel as required. Any costs incurred to the Contractor for tunneling or bracing poles shall be included in the unit price bid for excavation.
- The Contractor shall provide a pipe joint in all sewer mains within 2'-0" of exterior manhole walls.
- All manholes shall be 4'-0" inside diameter, unless otherwise noted.
- Butress or anchor all water main fittings with concrete. All valves shall be strapped to tees in accordance with standard details.
- All water mains to have a minimum of 3.5' cover unless otherwise noted.
- All fire hydrants shall be strapped to the tee and shall be butressed with concrete in accordance with standard details. Cost of strapping fire hydrants and valves to be included in the unit price bid for furnishing and installing fire hydrants. Soil around the fire hydrant to be compacted in accordance with Section 5-15 of the Standard Specifications.
- Bury line elevations on fire hydrants shall be set to the elevations shown on the plan.
- All horizontal controls are based on Maryland State Coordinates.

BENCH MARKS

- P&J B.M.#1 Elev. 369.71  
+ Cut on North edge of rim of sanitary manhole # 3241, 82.15' South of P.O.L. 4+60 P.I. T-1' to P.I. T-2'.
- P&J B.M.#2 Elev. 381.50  
+ Cut on North edge of rim of sanitary manhole # 3242, 62.53' South of P.I. T-2'.
- P&J B.M.#3 Elev. 392.91  
+ Cut on West edge of rim of sanitary manhole # 3242, 58.25' Southeast of P.O.L. 2+70 P.I. T-2' to P.I. T-3'.

QUANTITIES		
ITEM	ESTIMATED	AS BUILT
8" Sewer	295 L.F.	285 L.F.
Manholes	20 V.F.	22 V.F.
6" Water	305 L.F.	323 L.F.
Fire Hydrants	1 each	
6" S.H.C.	423 L.F.	
1" W.H.C.	190 L.F.	
3/4" W.H.C.	90 L.F.	

Sewer: ACP Class 2400 Transit - Johns Manville  
Water: DIP

CONTRACT NO. 2731-D-W&S  
VILLAGE OF OAKLAND MILLS - SECTION 3, AREA 3  
WATER & SEWER MAIN EXTENSION

PURDUM & JESCHKE  
ENGINEERS  
1023 N. CALVERT ST.  
BALTIMORE, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
9-10-77  
DIRECTOR OF PUBLIC WORKS DATE

CONTRACT NO. 2731-D-W&S

PLAN, PROFILES & DETAILS  
OF WATER & SEWER MAINS

VILLAGE OF OAKLAND MILLS  
SECTION 3, AREA 3  
ELECTION DISTRICT NO. 2  
HOWARD COUNTY, MARYLAND

DRAWING NO. 1 OF 1  
SCALE AS SHOWN  
Designed: RDB  
Drafted: REC  
Checked: TAF