

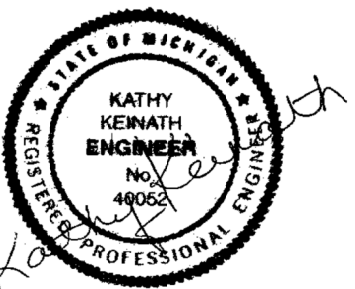


Know what's below. Call before you dig.

THE UNDERGROUND UTILITIES SERVICE HAS BEEN LOCATED FROM THIS SERVICE INFORMATION AND CONSTRUCTION OF THE UNDERGROUND UTILITIES SERVICE INFORMATION IS NOT GUARANTEED. THE SERVICE INFORMATION IS FOR INFORMATION ONLY. THE SERVICE INFORMATION DOES NOT GUARANTEE THE LOCATION, DEPTH, OR CONDITION OF ANY UTILITIES. THE SERVICE INFORMATION IS NOT TO BE USED AS A BASIS FOR ANY DESIGN OR CONSTRUCTION. ALL UTILITIES ARE OWNED BY THE CITY OF ANN ARBOR. THE SERVICE INFORMATION IS NOT TO BE USED AS A BASIS FOR ANY DESIGN OR CONSTRUCTION. ALL UTILITIES ARE OWNED BY THE CITY OF ANN ARBOR.

Macon Engineering, LLC.
PO Box 314, Chelsea, MI 48118 734-216-9941

AVALON HOUSING, INC.
HICKORY WAY
CIVIL CONSTRUCTION PLAN
UTILITIES
PHASE I



ENTIRE SANITARY SEWER REDESIGNED

BULLETIN 2	8-1-19
	7-17-19
	4-23-19
	4-3-19
DATE	1-9-19
SCALE	1" = 40'
SHEET NO.	C-06

SANITARY SEWER MITIGATION CALCULATIONS	
Phase I	
Proposed Units Apartments 800 sf	34
Design Dry Weather Flow Rate	250 gpd/unit
Dry Weather Flow	8,500 gpd
Peaking Factor	4
System Recovery Factor	10%
Flow to be mitigated	37400.0 gpd
Flow to be mitigated	26.0 gpm

The existing homes are on septic fields and were not credited in the mitigation calculations.

SANITARY SEWER MITIGATION CALCULATIONS	
Phase II	
Proposed Units Apartments 800-1200 sf	36
Design Dry Weather Flow Rate	250 gpd/unit
Dry Weather Flow	9,000 gpd
Peaking Factor	4
System Recovery Factor	10%
Flow to be mitigated	39604.0 gpd
Flow to be mitigated	27.5 gpm

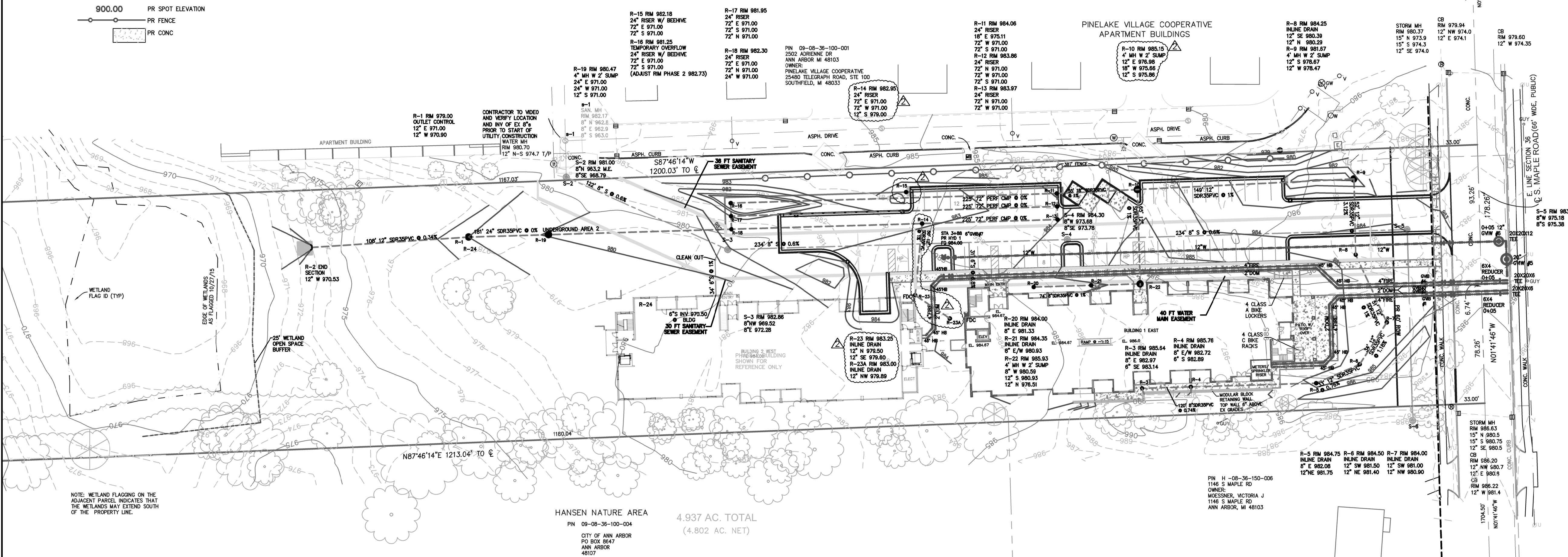
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PHASE I UNDERGROUND DETENTION AREA
(3*225)+(2* 18)= 711 FT 72" PERF CMP
6060 SF AGG AREA

- NOTES:
- PER CHAPTER 49, SECTION 4:58 OF THE CITY CODE, ALL SIDEWALKS ARE TO BE KEPT AND MAINTAINED IN GOOD REPAIR BY THE OWNER OF THE LAND ADJACENT TO AND ABUTTING THE SAME. PRIOR TO THE ISSUANCE OF THE FINAL CERTIFICATE OF OCCUPANCY FOR THIS SITE, ALL EXISTING SIDEWALKS IN NEED OF REPAIR MUST BE REPAIRED IN ACCORDANCE WITH CITY STANDARDS.
 - FIRE WALLS DO NOT EXIST TO SEPARATE UNITS.
 - THE BUILDINGS ARE CURRENTLY NOT OCCUPIED.
 - NO BOOSTER PUMPS ARE REQUIRED FOR THE WATER SERVICE LEAD.
 - THE CITY WILL PARTICIPATE IN COST SHARING FOR THE CONSTRUCTION OF THE 20" GVWV ON THE EXISTING WATER MAIN IN SOUTH MAPLE ROAD.
 - THE OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE, REPAIR AND REPLACEMENT OF THE FENCE WITHIN THE SANITARY SEWER EASEMENT IN THE EVENT OF ANY DISTURBANCE DUE TO THE CITY'S NEED TO MAINTAIN, REPAIR OR REPLACE THE SEWER.
 - ADDRESS SHALL BE CLEARLY VISIBLE WHEN APPROACHING THE BUILDING.
 - KNOX BOXES SHALL BE MOUNTED ON AN EXTERIOR LOCATION FOR EMERGENCY ACCESS TO THE BUILDING. THERE SHALL BE TWO: ONE LOCATED AT THE SPRINKLER RISER ROOM AND ONE AT THE FRONT ENTRANCE.
 - WATER SERVICE METERING SHALL OCCUR AT THE POINT THE SERVICE LEADS ENTER THE BUILDING.
 - NO PART OF THE BUILDINGS OR THE FOUNDATIONS WILL BE LOCATED WITHIN THE PUBLIC UTILITY EASEMENTS.
 - NO PART OF THE UNDERGROUND STORM WATER MANAGEMENT SYSTEM WILL BE LOCATED WITHIN THE PUBLIC UTILITY EASEMENTS.
 - SANITARY SERVICE LEADS AND WATER SERVICE LEADS TO BOTH BUILDINGS ARE TO BE CONSTRUCTED IN PHASE I. IF FOR ANY REASON BUILDING 2 IS NOT CONSTRUCTED, THEN THE LEADS FOR BUILDING 2 ARE TO BE CUT AND CAPPED AT THE MAIN AT THE OWNER'S EXPENSE.

LEGEND

- SECTION CORNER
- FOUND IRON PIPE
- FOUND IRON ROD
- SET IRON PIPE
- SET MAG NAIL
- FOUND MAG NAIL
- SET WOOD LATH
- CONTROL POINT
- MEASURED DIMENSION
- RECORDED DIMENSION
- SURFACE FLOW
- WATER MANHOLE
- FIRE HYDRANT
- GATE VALVE
- BEEHIVE CATCH BASIN
- CURB CATCH BASIN
- STORM MANHOLE
- CULVERT/END SECTION
- SANITARY MANHOLE
- UTILITY POLE
- TELEPHONE RISER
- GAS MAIN RISER
- ELECTRIC LINE
- GAS MAIN
- WATER MAIN
- STORM LINE
- SANITARY LINE
- CABLE TV LINE
- PHONE LINE
- CHAIN LINK FENCE
- WOOD FENCE
- BARRIED WIRE FENCE
- PR WATER MAIN
- PR SANITARY SEWER
- PR STORM SEWER
- PR LIMITS OF DISTURBANCE
- PR SILT FENCE
- PR INLET FILTER
- PR CONTOUR LINE
- PR SPOT ELEVATION
- PR FENCE
- PR CONC



NOTE: WETLAND FLAGGING ON THE ADJACENT PARCEL INDICATES THAT THE WETLANDS MAY EXTEND SOUTH OF THE PROPERTY LINE.