

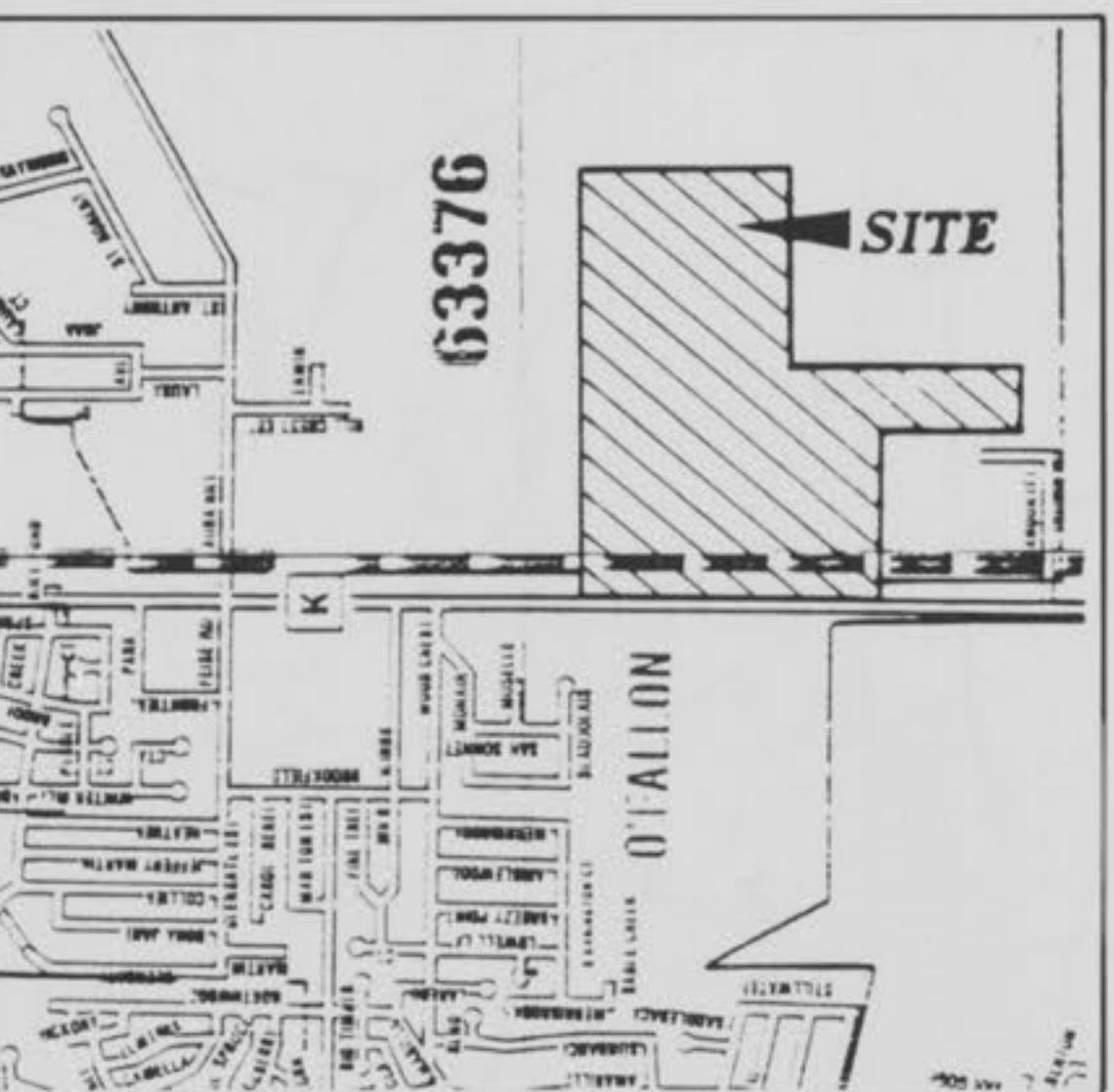
GENERAL NOTES

SPECIFICATIONS

- Underground utilities have been plotted from available information and therefore their locations shall be considered approximate only. The verification of the location of all underground utilities, either shown or not shown on these plans, shall be the responsibility of the contractor, and shall be located prior to any grading and/or construction of improvements.
- All standard curb inlets are to have front-of-inlet 2' (two feet) behind curb, within public right-of-way, unless otherwise noted.
- Storm sewers 18" diameter and smaller shall be A.S.T.M. C-14 unless otherwise shown on the plans.
- Storm sewers 21" diameter and larger shall be A.S.T.M. C-76, Class III minimum, unless otherwise shown on the plans.
- All storm sewer pipe in the right-of-way shall be reinforced concrete pipe (A.S.T.M. C-76, Class II minimum).
- Corrugated metal pipe shall conform to the standard specifications for corrugated culvert pipe AASHTO, M36, aluminized or asphalt polymer coated.
- R.P.V.C. sanitary sewer pipe shall meet the following standards: A.S.T.M. D-3034 SDR35, with wall thickness compression joint A.S.T.M. D-321. An appropriate rubber seal watertight as approved by the sewer district shall be installed between P.V.C. pipe and masonry structures.
- All filled places, including under paved areas, under buildings, under proposed storm and sanitary sewer lines, and/or paved areas, shall be compacted to 90% maximum density as determined by the "Modified AASHTO T-180 Compaction Test" (A.S.T.M. D-1557). Test shall be verified by a soils engineer.
- All trench backfills under paved areas shall be granular backfill, and water jetted. All other trench backfills may be earth material (free of large clods or stones) and shall be water jetted.
- No slope shall be steeper than 3:1. All slopes shall be seeded and mulched.
- Barricades will be constructed per the standard specifications as shown in the "Manual of Uniform Traffic Control Devices". End of roadway markers shall be mounted 4 feet above the pavement on two pound "U" channel sign posts. Each marker shall consist of an 18" diamond panel with red reflectors.
- All construction and materials used shall conform to current City of O'Fallon Standards and Specifications.
- Easements shall be provided for storm sewers, sanitary sewers, and all utilities on the record plat. See record plat for location size, and width of easements.
- All water line construction shall conform to current St. Charles Co. Water Dist. No. 2 Standards and Specifications.
- All sanitary sewer construction shall conform to current Duckett Creek Sewer District Standards and Specifications.
- The length of the concrete encasement around the P.V.C. sanitary sewers and the concrete storm sewers shall extend at least 5' into undisturbed soil to bridge the pipe across the french backfill. Reinforcing steel shall be placed in the concrete encasement for tensile strength.
- Erosion control shall not be limited to what is shown on the plan. The contractor shall take whatever means necessary to prevent siltation and erosion from entering adjacent roadways, properties, and ditches. Such control might include channeling runoff into sediment basins, channeling runoff into areas where an extra row of straw bales are used. A silt fence might be considered, if necessary.
- All construction and materials shall conform to O'Fallon Fire Protection District Standards.
- The minimum vertical distance from the low point of the basement to the flowline of the sanitary sewer at the corresponding house connection shall not be less than two and one half feet (2 1/2") plus the diameter of the sanitary sewer.
- The most stringent of the above requirements shall apply.
- All streets and right-of-ways shown on these improvement plans will be dedicated to the City of O'Fallon for public use forever.
- When grading operations are completed or suspended for more than 30 days, permanent grass must be established at sufficient density to provide erosion control on the site. Between permanent grass seeding periods, temporary cover shall be provided according to the City of O'Fallon Specifications.
- The contractor shall place all fire hydrants within (2) two feet of the street curb.
- The contractor shall place the "steamer" outlet of the fire hydrant toward the street.
- All sanitary sewer manholes shall be waterproofed on the exterior in accordance with Missouri D.N.R. Specification 10CSR.8.120 (7)(E).
- Any wells and/or springs which may exist on this property should be located and sealed in a manner acceptable to the City of O'Fallon.
- All existing trash and debris on-site must be removed and disposed of off-site.
- Debris and foundation material from any existing on-site building or structure which is scheduled to be razed for this development must be disposed of off-site.
- Soft soils in the bottom and banks of any existing or former pond sites or tributaries should be removed, spread out, and permitted to dry sufficiently to be used as fill. None of this material should be placed in proposed public right-of-way locations or on any storm sewer location.
- Concrete Pipe Joints shall be U.S.D. Type "A" Approved Compression Joints and shall conform to the requirements of the Specification for Joints and Circular Concrete Sewer and Culvert Pipe, using flexible, watertight, rubber-type gaskets A.S.T.M. C-443 Band-Type. Gaskets depending entirely on cement for adhesion and resistance to displacement during jointing shall not be used.
- All sewer tops built without elevations furnished by the Engineer will be the responsibility of the sewer contractor.
- Gas, water, and other underground utilities shall not conflict with the depth or horizontal location of existing and proposed sanitary and storm sewers including house laterals.
- No area shall be cleared without permission of the developer.
- All sanitary laterals shown on plan are to be constructed of 4 inch P.V.C. pipe.
- Brick shall not be used on manholes.
- All grout for rip-rap shall be high slump ready-mix concrete.
- The Duckett Creek Sewer District shall be notified at least 48 hours prior to construction of sanitary sewers for coordination and inspections.
- All PVC sanitary sewer pipe is to be SDR-35 or equal with "clean 1/2" to 1" granular stone bedding uniformly graded. This bedding shall extend from 4" below the pipe to springline of pipe to 6" above the top of pipe.
- All pipes shall have positive drainage through manholes. No flat base structures are allowed.
- All streets within this set of improvement plans shall be Publicly maintained.

CHERRYWOOD PARC

A TRACT OF LAND BEING PART OF SECTION 4,
TOWNSHIP 46 N., RANGE 3 E.,
CITY OF O'FALLON, ST. CHARLES CO., MO.



LOCATION MAP
N.T.S.

PROJECT BENCHMARK
FIRE HYDRANT AT S.E. CORNER
OF DARDENNE ELEMENTARY SCHOOL
"M" IN MUELLER
U.S.G.S. DATUM ELEV. 574.74

DEVELOPMENT NOTES:

- AREA OF TRACT 95.01
- PRESENT ZONING R-4 SINGLE FAMILY RESIDENTIAL
- PROPOSED USE SINGLE FAMILY RESIDENTIAL SUBD.
- TOTAL LOTS PROPOSED 323
- MINIMUM LOT AREA 7,500 SQ.FT.
- SITE IS LOCATED IN OR IS SERVED BY THE FOLLOWING:

WATER DISTRICT - ST.CHARLES CO. WATER DISTRICT NO. 2
SANITARY - DUCKETT CRK. SEWER DISTRICT
ELECTRIC - UNION ELECTRIC CO.
GAS - ST. CHARLES GAS CO.
TELEPHONE - G.T.E.

ENGINEERS AUTHENTICATION

The responsibility for professional engineering liability on this project is hereby limited to the set of plans authenticated by the seal, signature, and date hereunder attached. Responsibility is disclaimed for all other engineering plans involved in the project and specifically excludes revisions after this date unless re-authenticated.

ST. CHARLES ENGINEERING AND SURVEYING

Micheal Newell Meiners
MICHAEL NEWELL MEINERS
MISSOURI PROFESSIONAL ENGINEER NUMBER E-22483

- 1
2 thru 4
5 thru 7
SILTATION PLAN (not part of improvement plans)
8 thru 9
10 thru 12
13 thru 14
15 thru 17
18 thru 23

PREPARED FOR

OWEN & SONS DEVELOPMENT CO.
235 JUNGERMAN RD. SUITE 207
ST. PETERS, MO. 63376

SANITARY & STORM AS-BUILTS
(AS SHOWN ON PROFILES)

Feb. 23, 1995
Dec. 2, 1994 A.D.S. note

Revised Oct. 5, 1994, Oct. 11, 1994 D.C.S. per City of O'Fallon

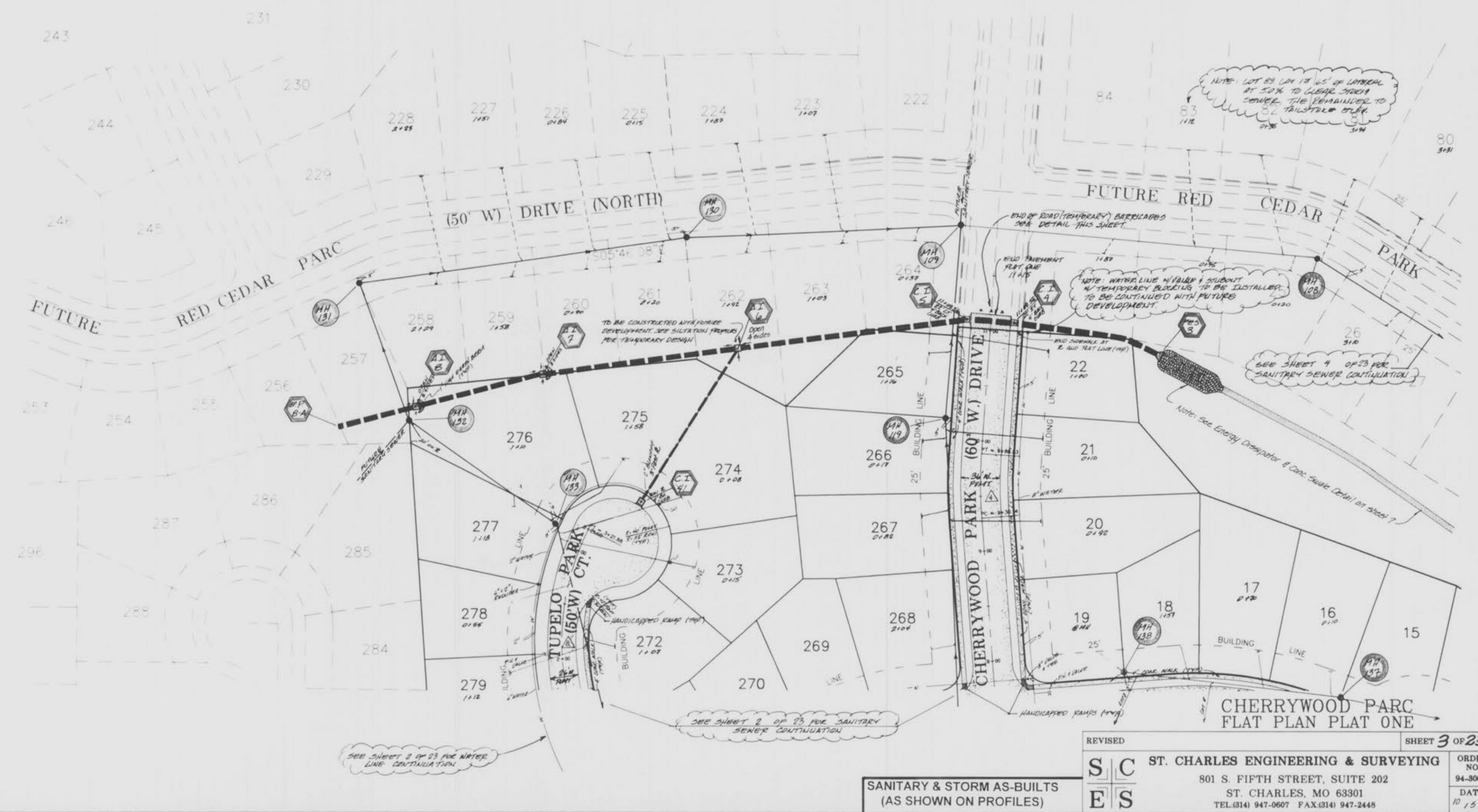
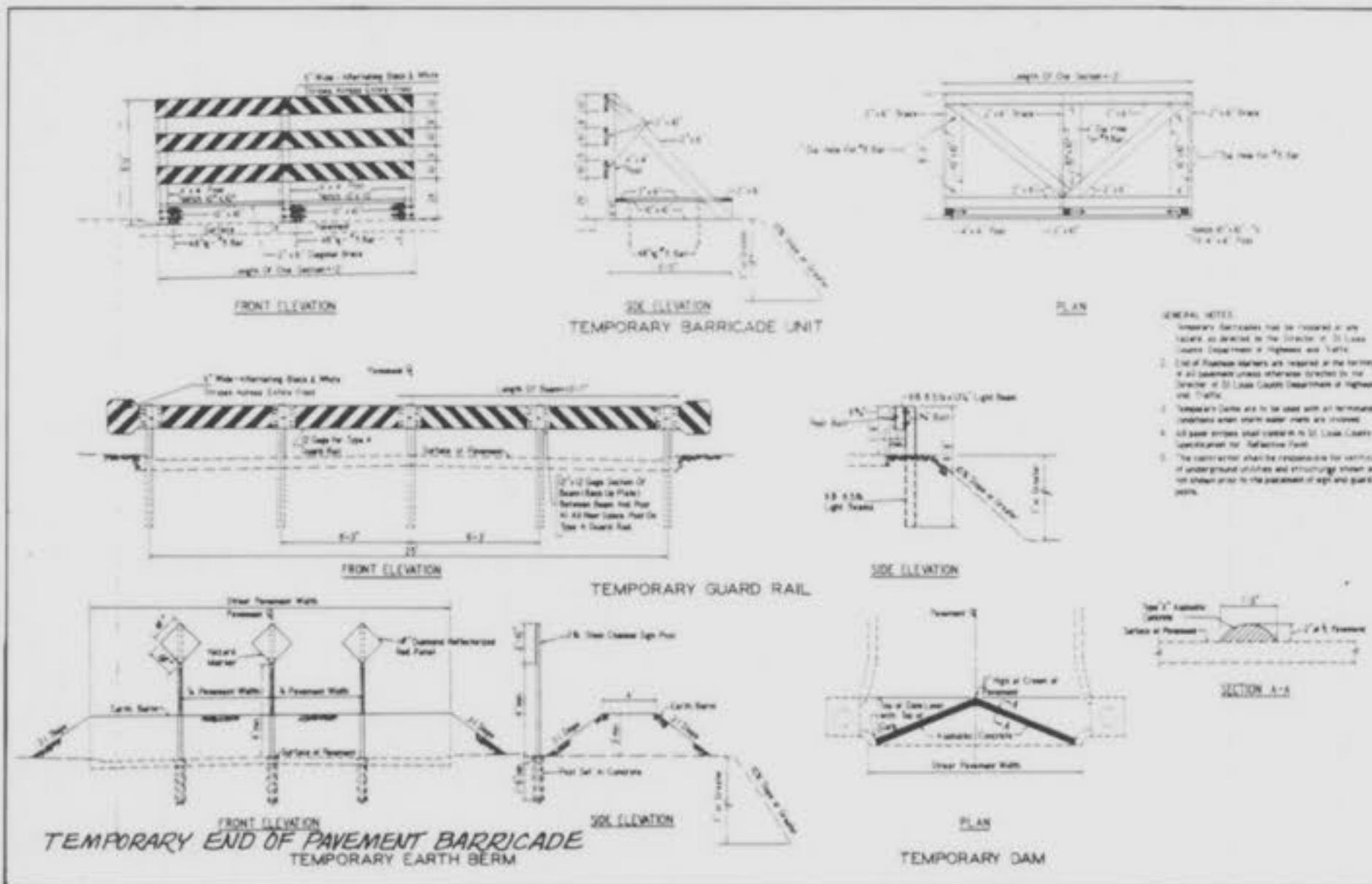
Sheet 1 of 23
Order No. 94-306
Date 7/12/94
S C ST. CHARLES ENGINEERING & SURVEYING
801 South Fifth Street, Suite 202
St. Charles, Missouri 63301
Off. 947-0607, Fax 947-2448

CHERRYWOOD PARC
FLAT PLAN PLAT ONE

Oct. 5, 1994 94-306

Rev. 11/4/94

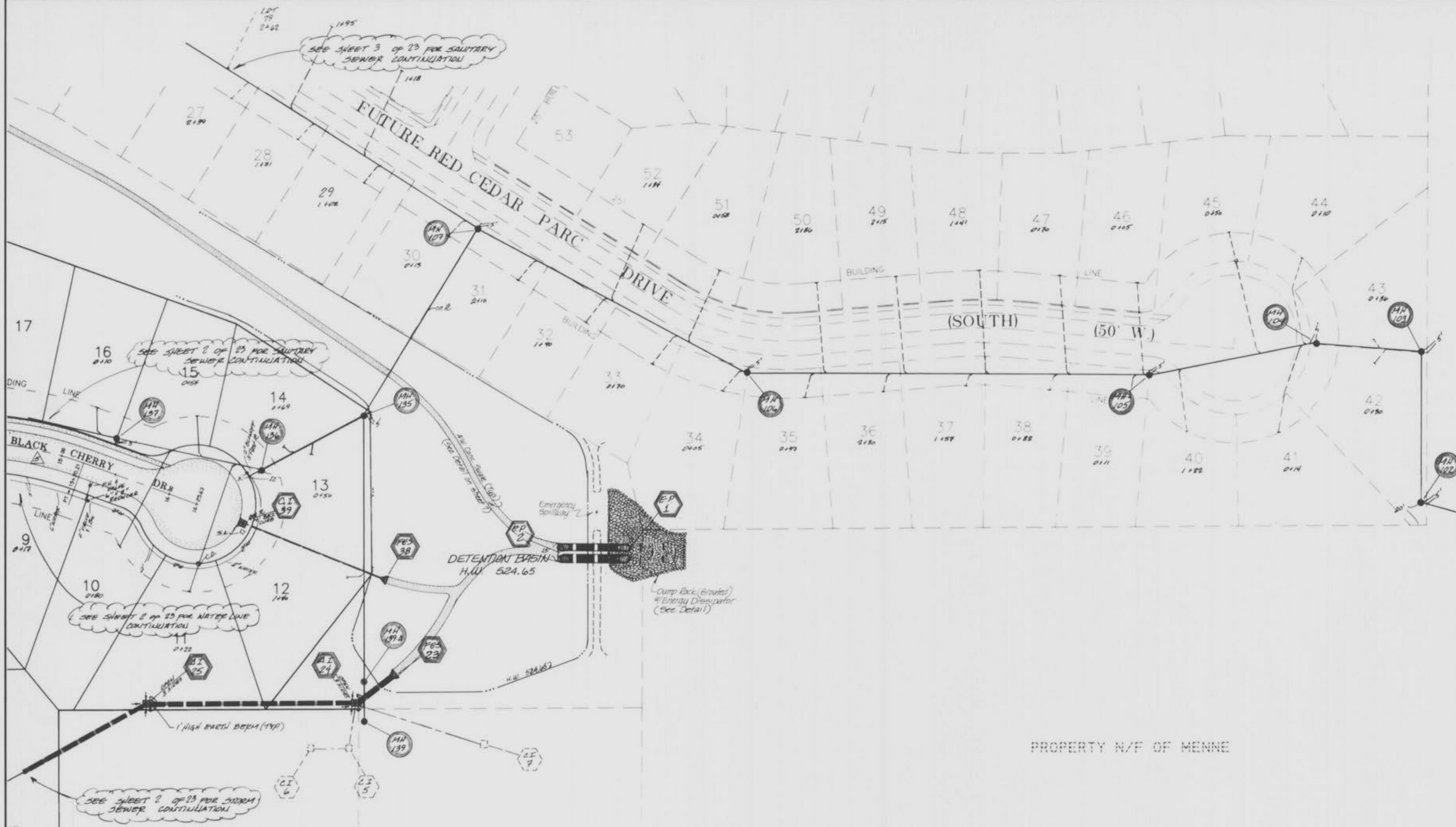
SCALE: 1" = 50'



CHERRYWOOD PARC
FLAT PLAN PLAT ONE
Oct. 5, 1994 94-306

Rev. 11/4/94

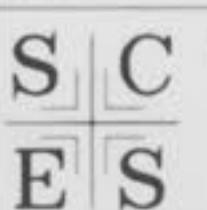
SCALE: 1" = 50'



PROPERTY N/F OF MENNE

PROPERTY N/F
OF ERKER/ROSSPROPERTY N/F
ST. CHARLES CITY/COUNTY
LIBRARYCHERRYWOOD PARC
FLAT PLAN PLAT ONE

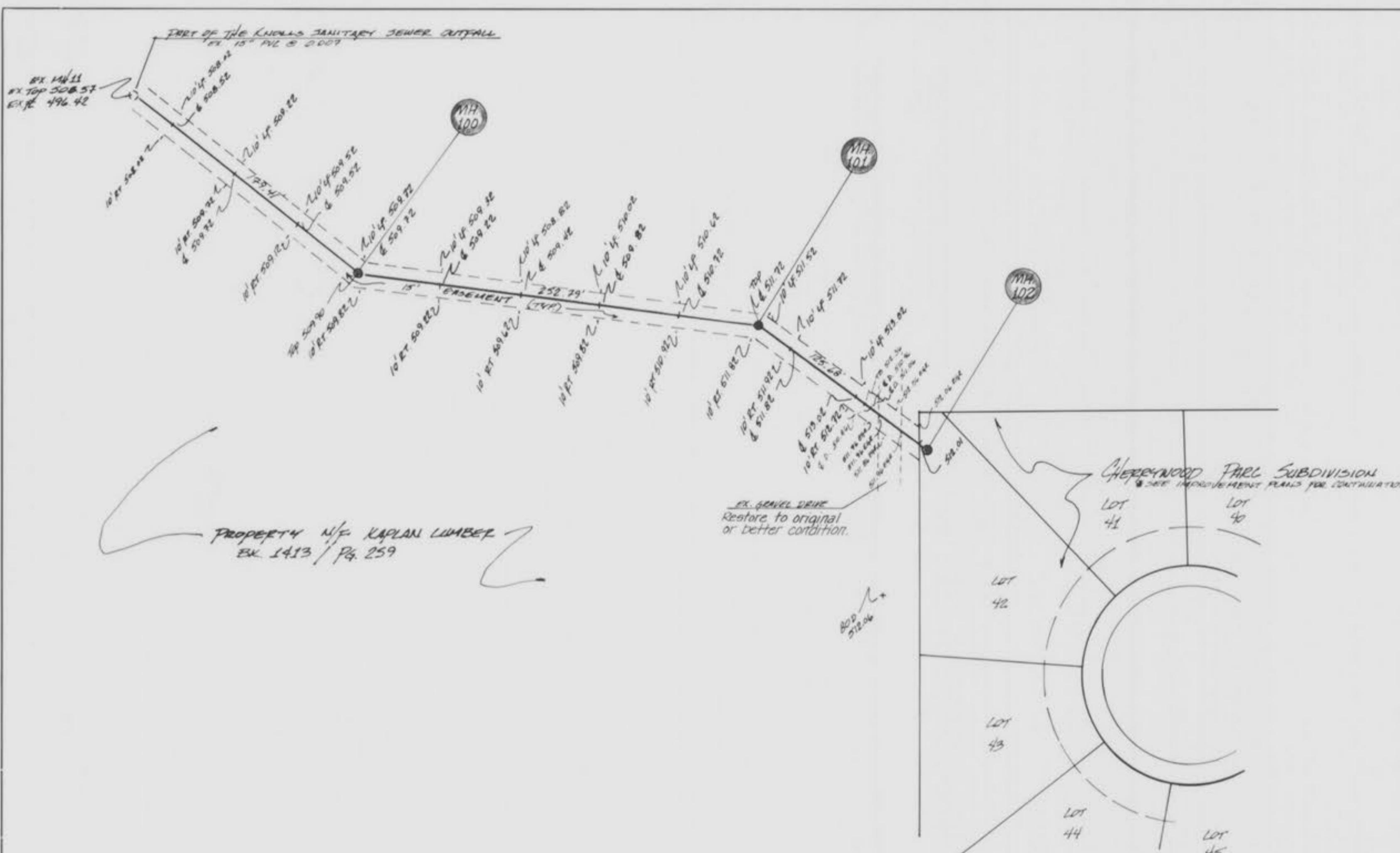
REVISED



ST. CHARLES ENGINEERING & SURVEYING
801 S. FIFTH STREET, SUITE 202
ST. CHARLES, MO 63301
TEL (314) 947-0607 FAX (314) 947-2448

ORDER
NO.
94-306
DATE
10/15/94

SANITARY & STORM AS-BUILTS
(AS SHOWN ON PROFILES)

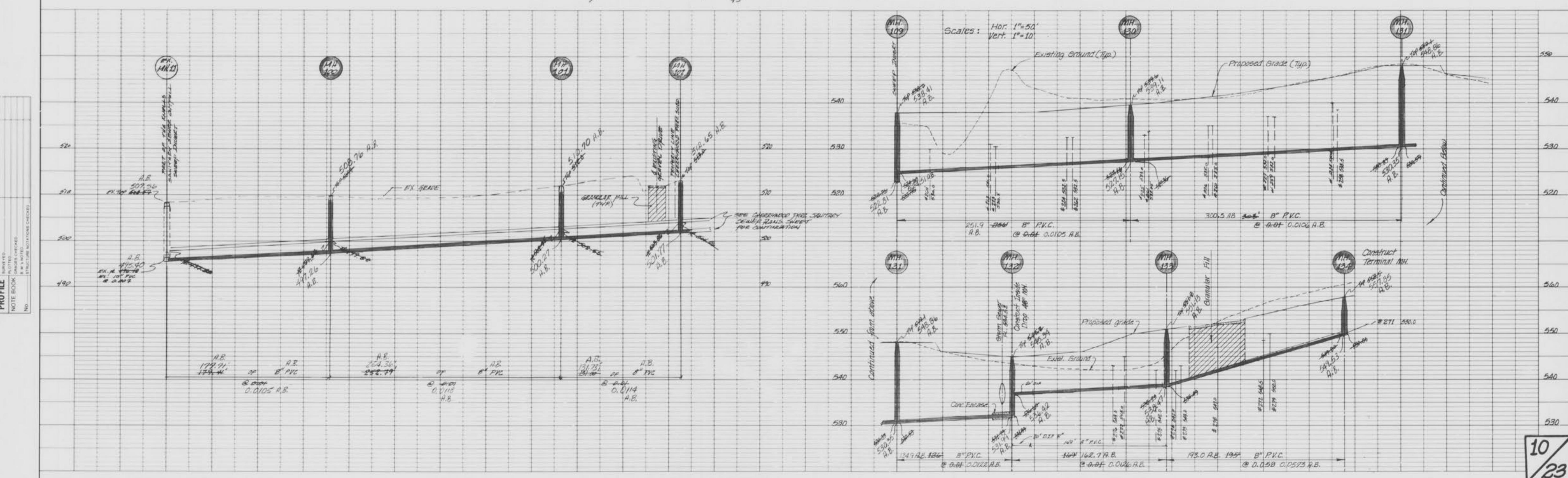


Cherrywood Parc

Off Site Sanitary Sewer Plan & Sanitary Sewer Profiles

Off Site Sanitary Sewer Plan & Sanitary Sewer Profiles

Rev. 10/5/94
Rev. 11/4/94

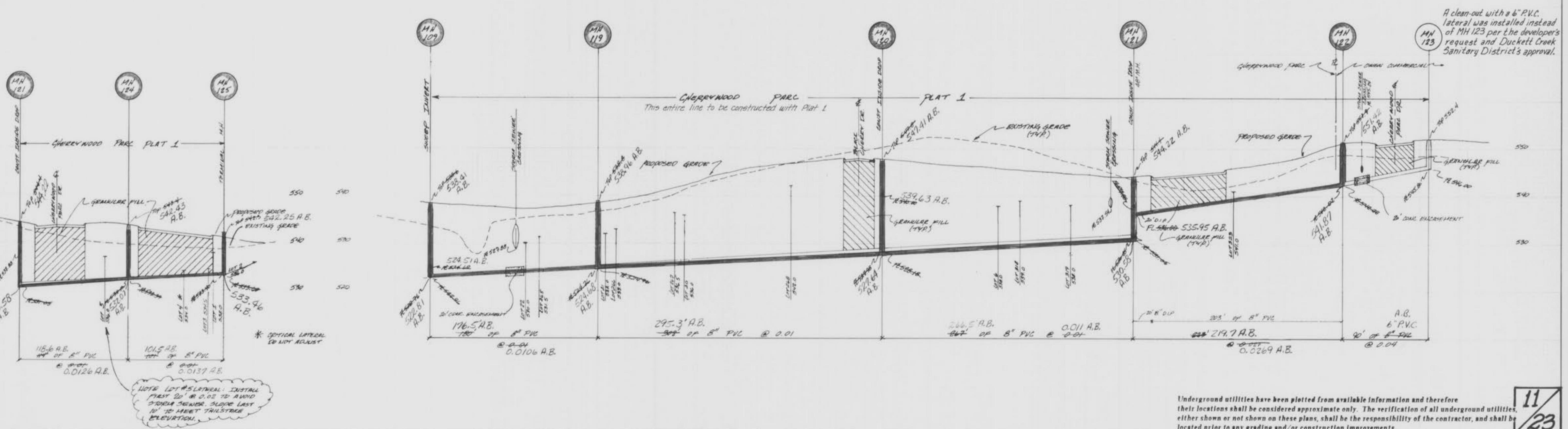
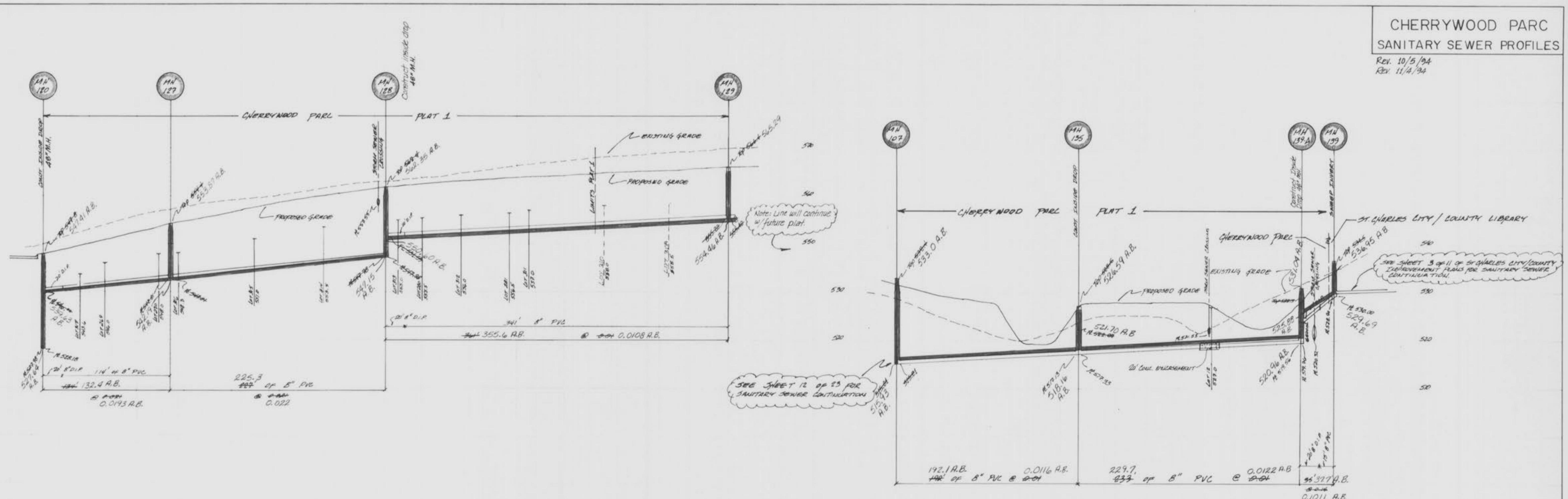


CHERRYWOOD PARC
SANITARY SEWER PROFILES

REV. 10/5/94
REV. 11/4/94

FINAL SURVEY	DATE
SURVEYED	
PLOTTED	
RECHECKED	
NOTE BOOKS	
TEMPERATE	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
SURVEYED	
PLOTTED	
RECHECKED	
NOTE BOOKS	
TEMPERATE	
AREAS CHECKED	
NO.	



Underground utilities have been plotted from available information and therefore their locations shall be considered approximate only. The verification of all underground utilities, either shown or not shown on these plans, shall be the responsibility of the contractor, and shall be located prior to any grading and/or construction improvements.

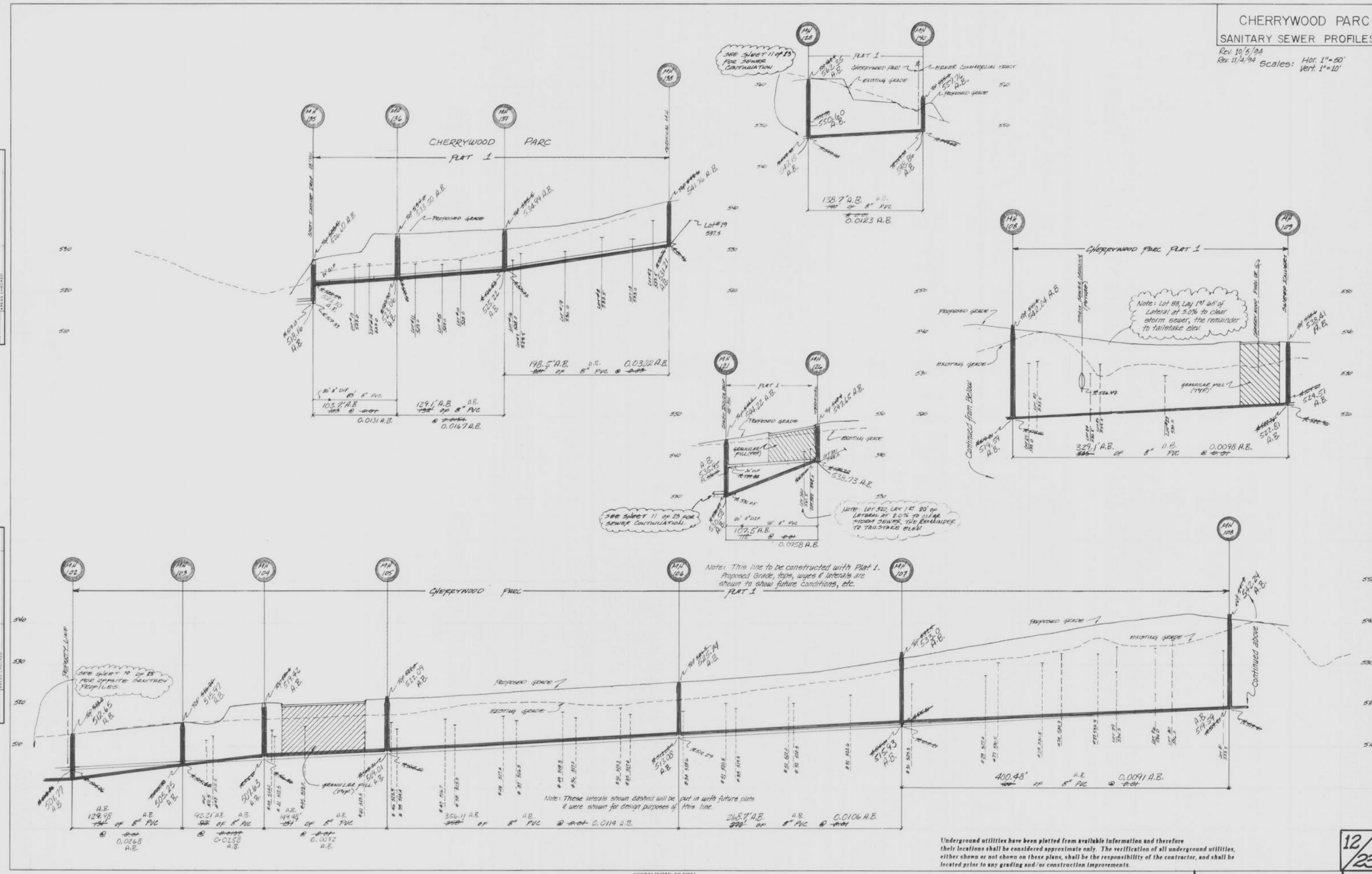
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23

SANITARY & STORM AS-BUILT
(AS SHOWN ON PROFILES)

Cherrywood Parc
Rev. Bui. 143
0/1

CHERRYWOOD PARC SANITARY SEWER PROFILES

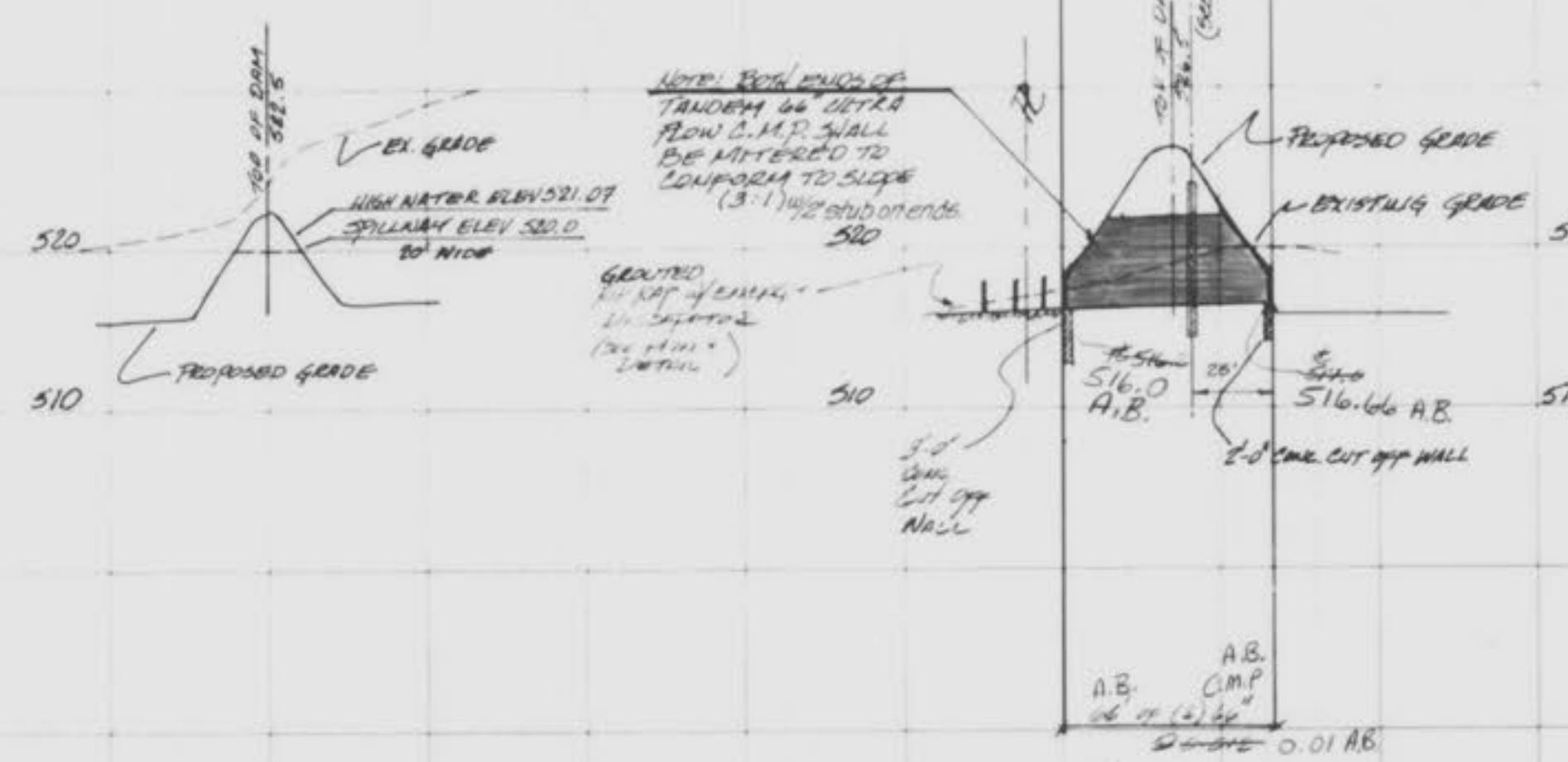
Rev. 10/5/94
Rev. 11/4/94 Scales: Hori. 1" = 50'
Vert. 1" = 10'



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Construction notes for the construction and placement of 86" tandem Ultra-Flow Pipes.

1. Manufacturers requirements shall be strictly adhered to.
 2. Soils Engineer shall observe and supervise the placement and backfilling procedures and test the compaction for compliance with project specifications.
 3. Rock bedding shall not be used for the outlet piping of the stormwater detention basin.
 4. A concrete collar shall be placed on each pipe as shown on the plans, and shall be supervised by Soils Engineer.
 5. The pipes shall be placed on a subgrade shaped to fit the pipe barrel and backfill materials should be properly compacted cohesive soils. The trench backfill materials above the concrete and pipe should be compacted cohesive soils.
 6. A minimum separation of 4' shall be maintained, and supervised by the soils engineer.



Siltation Basin "A"

Detention Basin "A" Outfall

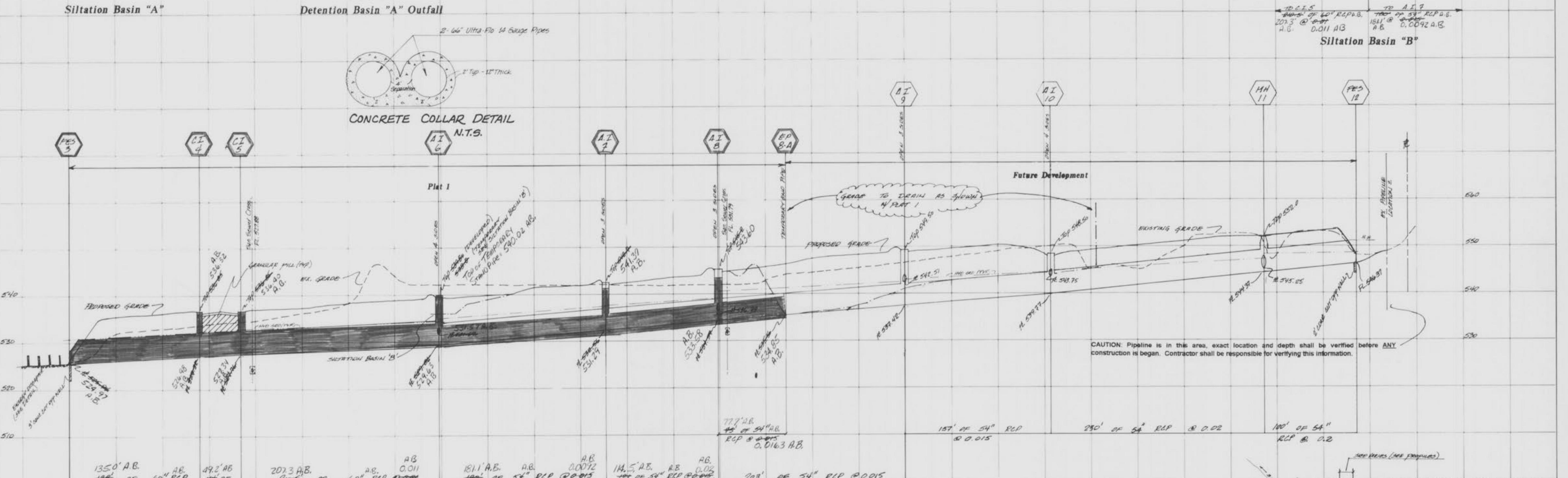
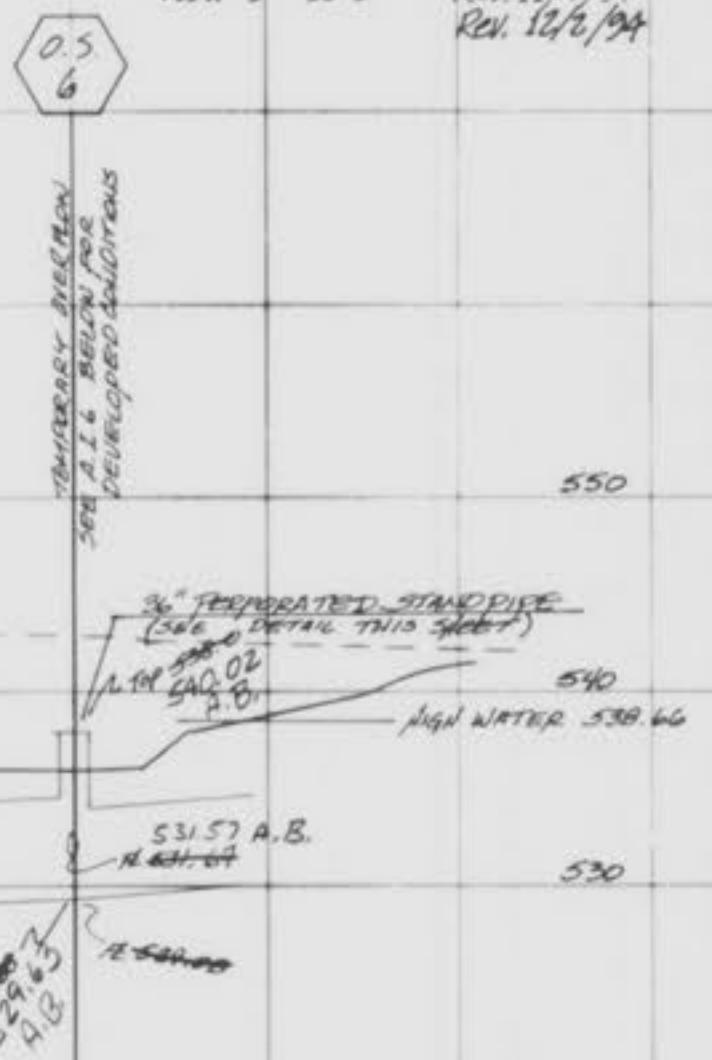
Siltation Basin "

Siltation Basin "

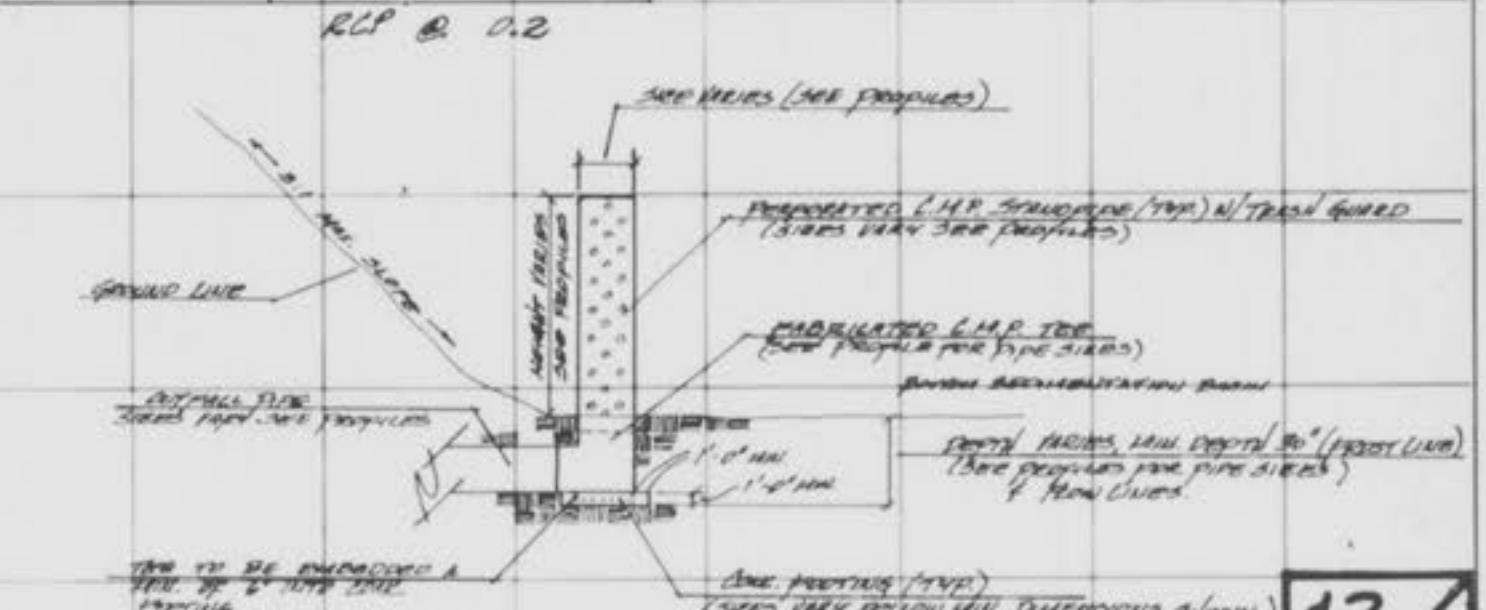
Cherrywood Parc

Storm Sewer Profiles

Horz. 1° - 50' 0" Rev. 10/5/94
Vert. 1° - 10' 0" Rev. 11/4/94
Rev. 12/2/94



The use of High Density Polyethylene Corrugated Pipe with smooth interior wall will be permitted as an acceptable alternative to R.C.P. outside Public R/W. Pipe shall meet A.S.T.M. D-2321 A.A.S.H.T.O. M-294-92 Concrete Flared End Sections & Inlet Structures shall be required.



Temporary Stand Pipe Detail (NTS)

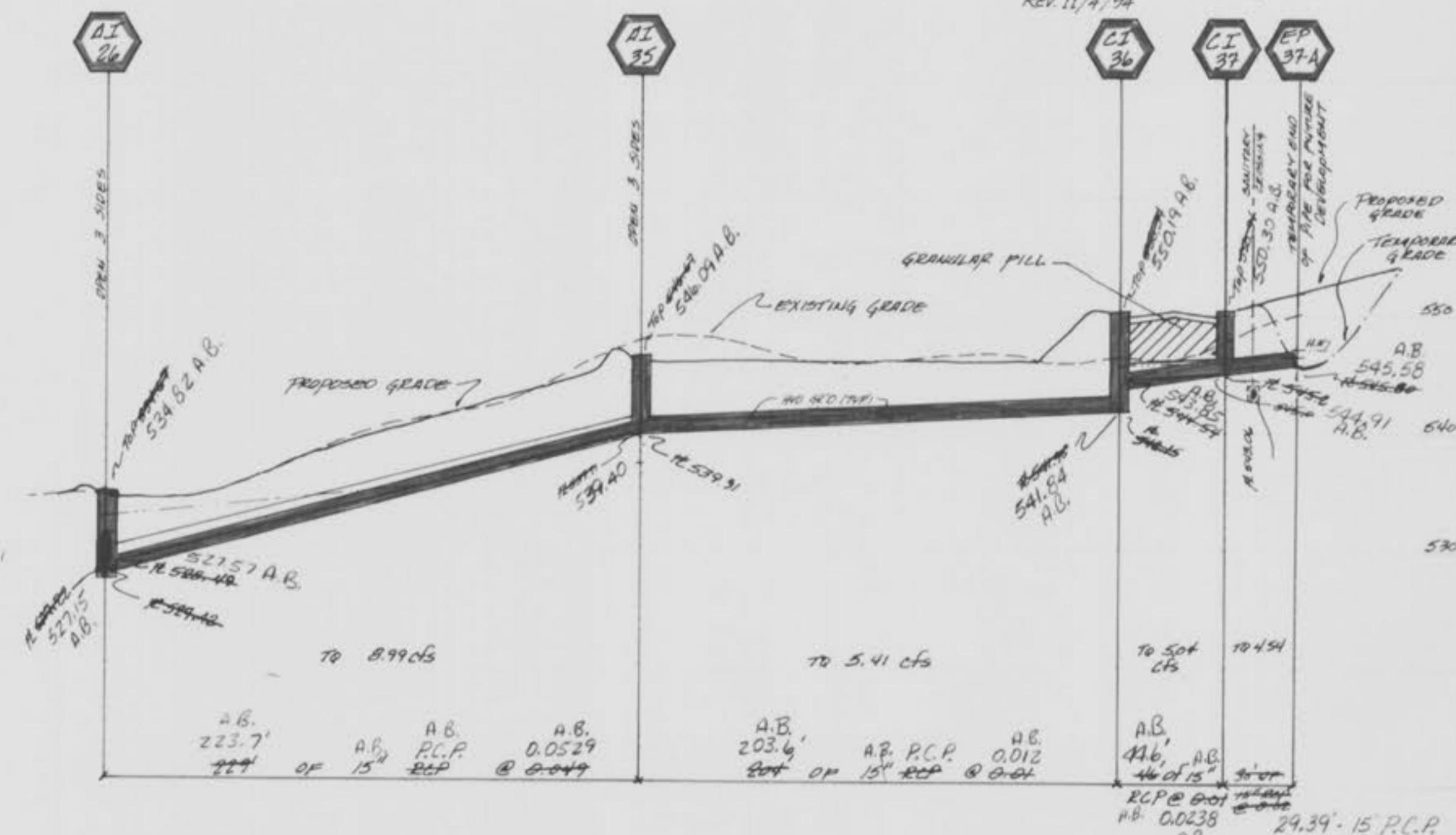
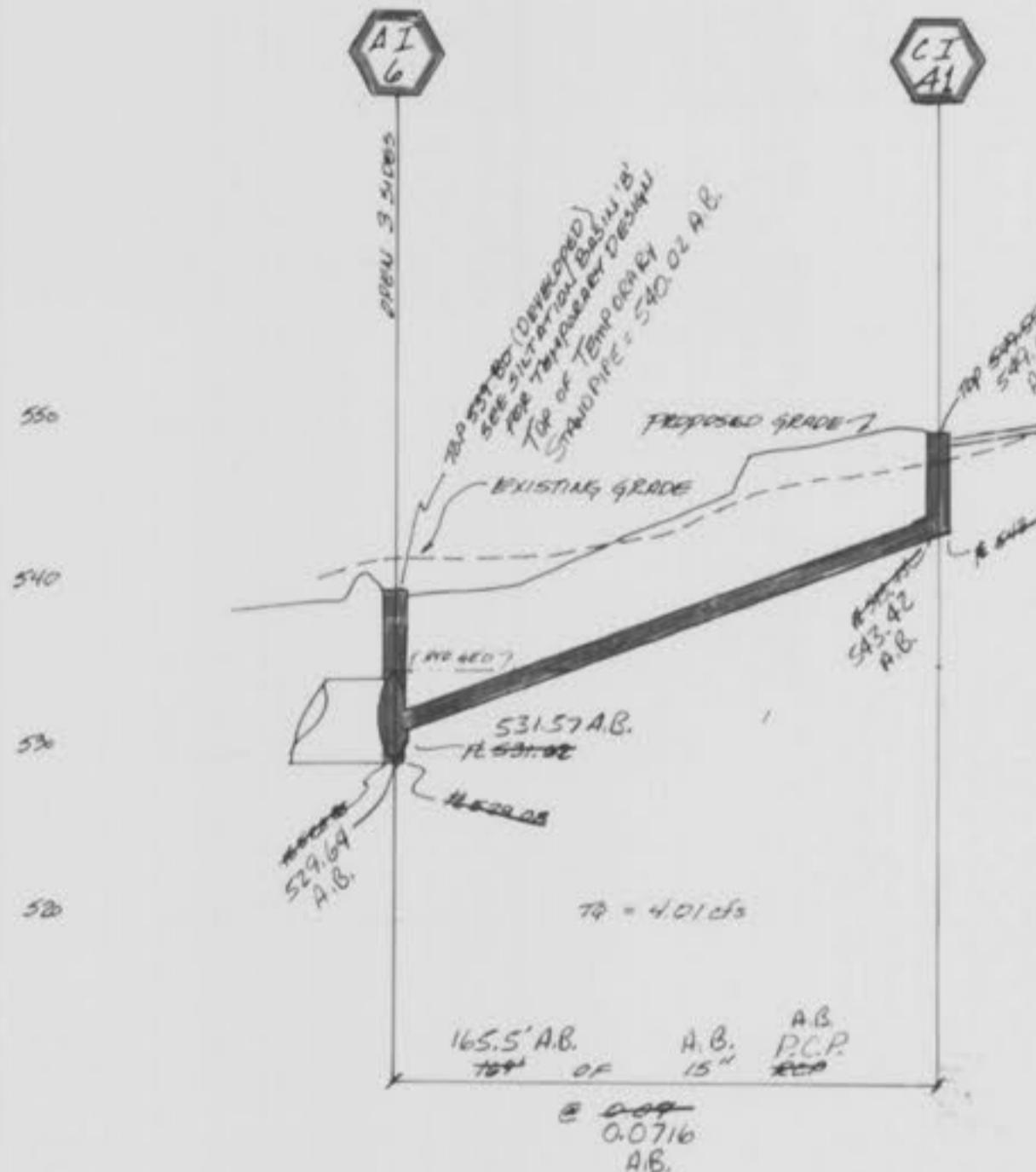
CHERRYWOOD PARC SUBD.
STORM WATER SEWER PROFILES
PLAT 1

Rev. 10/6/94
Rev. 11/4/94

Rev. 10/2/94

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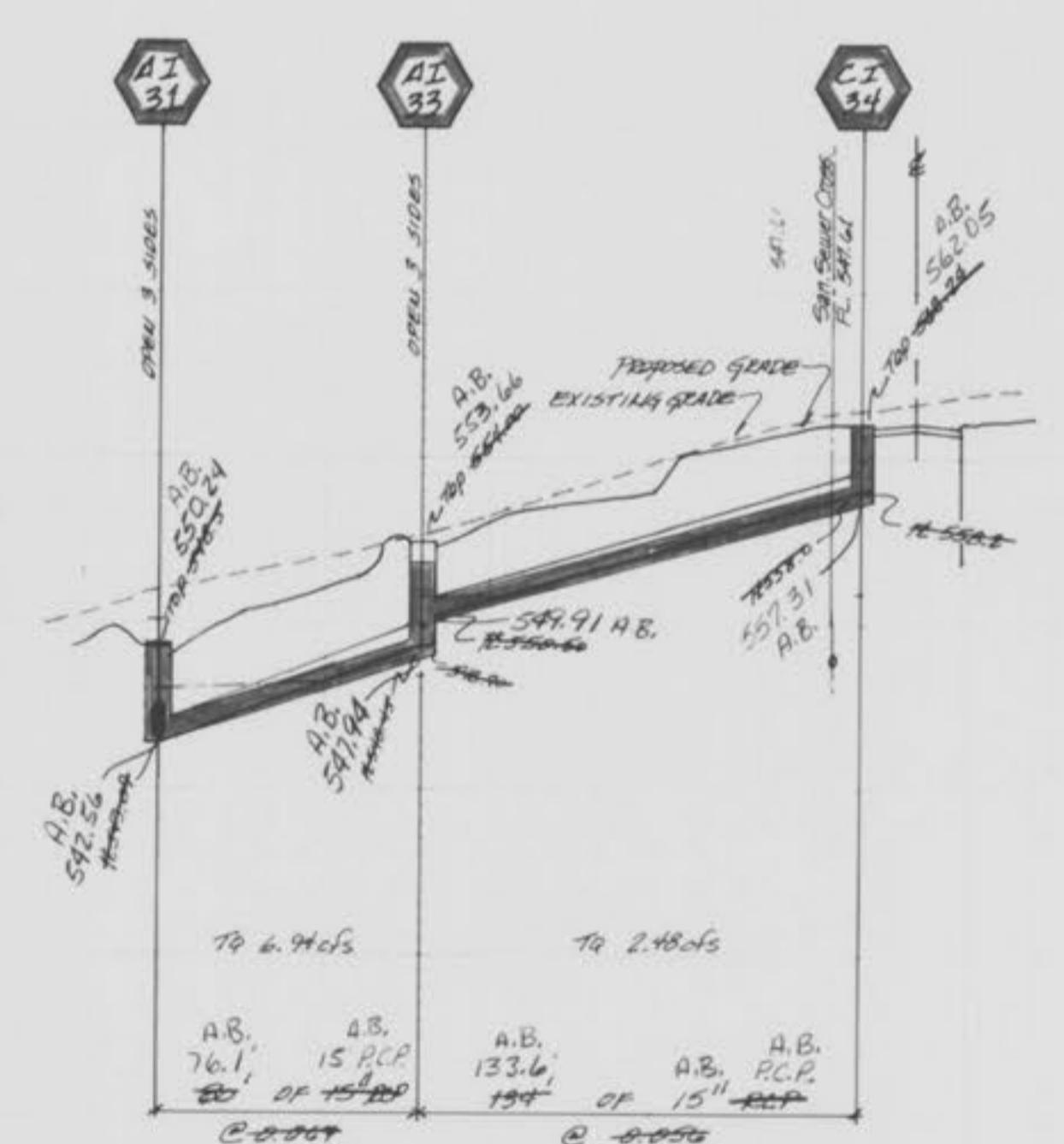
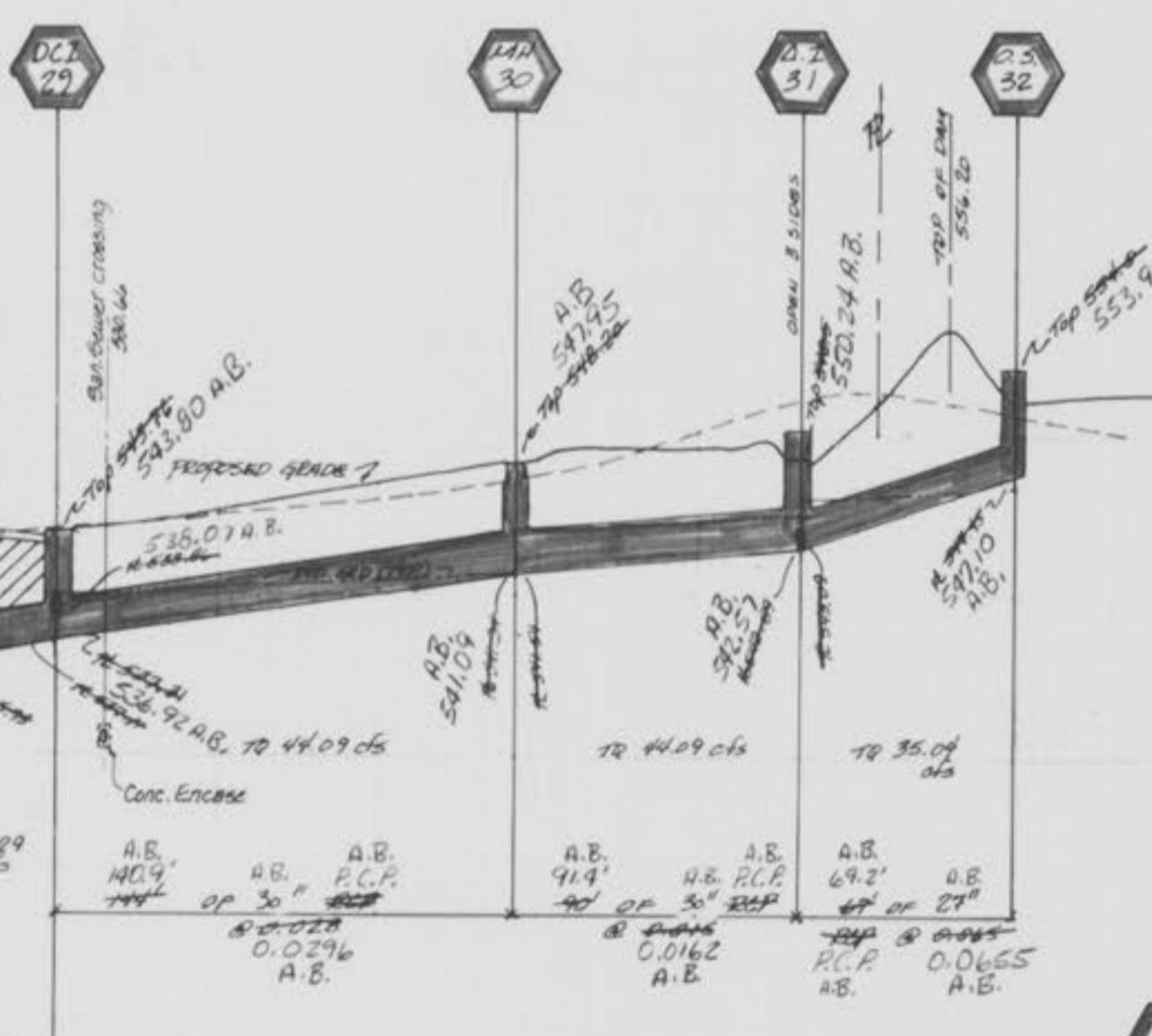
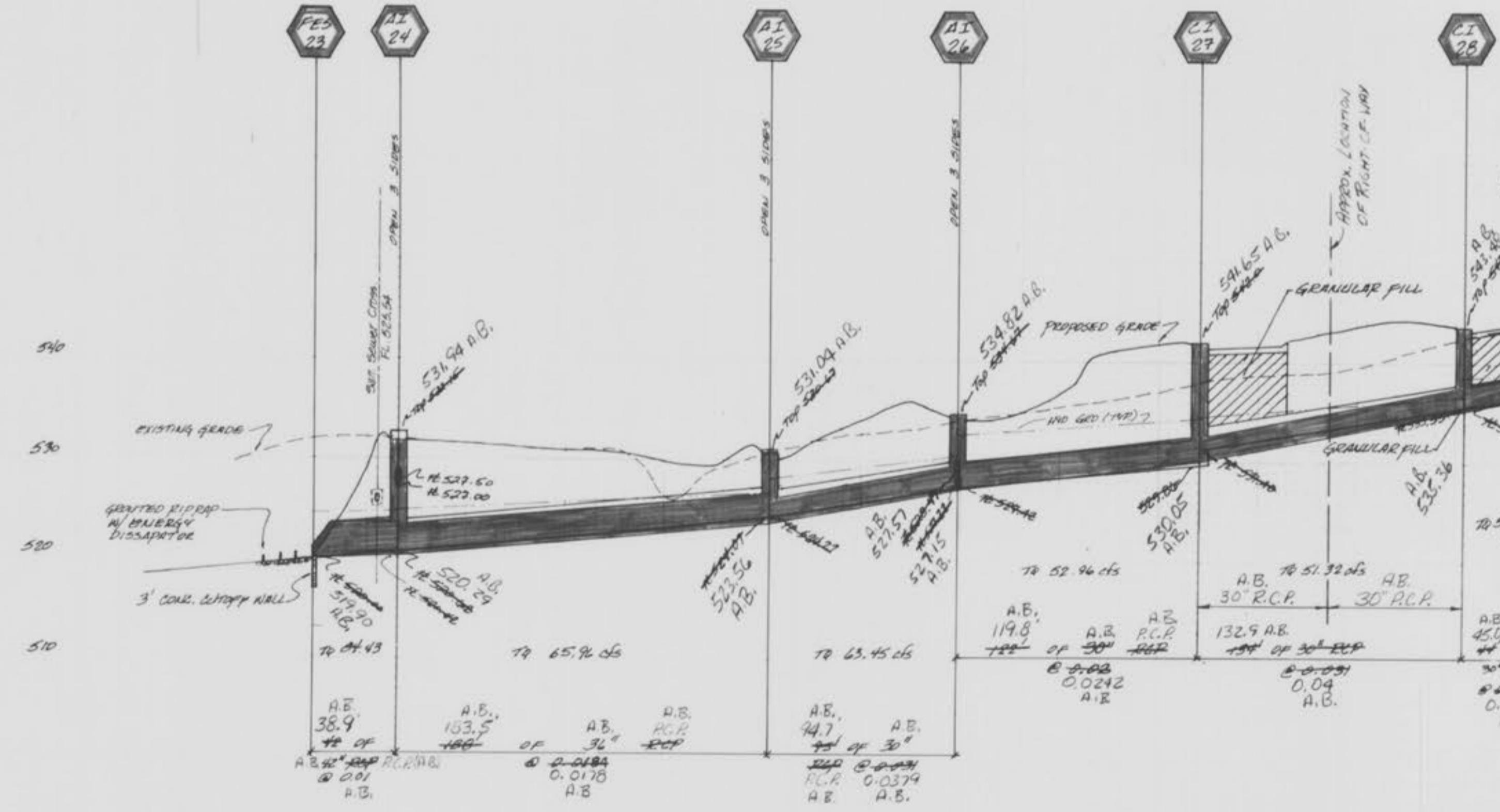
FINAL SURVEY	DATE
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PLOTTED	
NOTE BOOK	TEMPORARY
AREAS CHECKED	AREAS CHECKED
NO	NO



Note!
P.C.P. = High Density Polyethylene
Corrugated Pipe

29.39 - 15 P.C.P.
@ 0.0228/ft
A.B.

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	TEMPORARY
AREAS CHECKED	AREAS CHECKED
NO	NO



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