

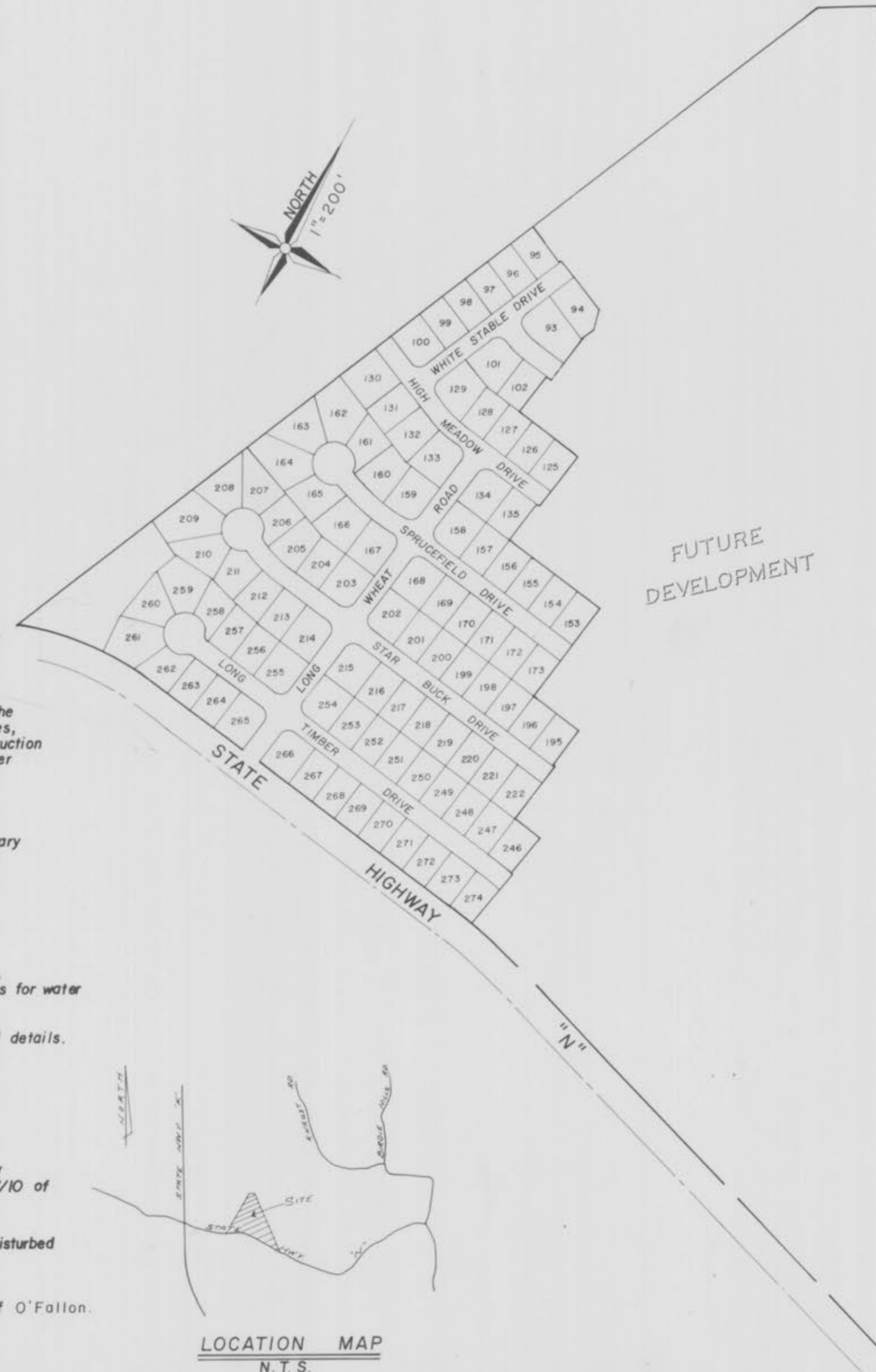
# WHEATFIELD

## PLAT ONE

INDEX

### GENERAL NOTES

- 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.
- Underground utilities have been plotted from available information and therefore their locations must 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 grading or construction of improvements.
- Polyvinyl Chloride (PVC) shall conform to the requirements of ASTM D-3034 Standard Specifications for the PSM Polyvinyl Chloride (PVC) Sewer Pipe and Fittings, SDR35.
- Storm sewers 18" diameter or smaller shall be A.S.T.M. C-14.
- Storm sewers 21" diameter or larger shall be A.S.T.M. C-76, Class II.
- All storm sewer pipe under pavement, regardless of size, shall be reinforced concrete pipe (A.S.T.M. C-76, Class III) unless noted otherwise on the plans.
- Corrugated metal pipe shall conform to the standard specifications for corrugated culvert pipe M 36, A.A.S.H.O. See plans for gauge.
- All filled places under buildings, proposed storm and sanitary sewer lines and/or paved areas including trench backfills shall be compacted to 90% of maximum density as determined by the "Modified A.A.S.H.O. T-180 Compaction Test" (A.S.T.M. D-1557) unless otherwise specified by local governing authority specifications. All tests shall be verified by a Soils Engineer.
- All filled places in paved State, County or City roads (Highways) shall be compacted to 90% of maximum density as determined by the "Standard Proctor Test A.A.S.H.O. T-99" (A.S.T.M. D-698) unless otherwise specified by local governing authority specifications. All tests shall be verified by a Soils Engineer.
- All storm and sanitary trench backfills will be water jetted. Granular backfill will be used under pavement areas.
- Easements shall be provided for storm sewers, sanitary sewers and all utilities on the record plat. See record plat for location and size of easements. This does not apply to house laterals.
- No area shall be cleared without permission of the developer.
- All grade shall be within 0.2 feet more or less of those shown on the grading plan.
- No slope shall be greater than 3:1 and shall be either sodded or seeded and mulched.
- ~~Barrieraes will consist of three standard 12" x 36" red and white striped sotchite hazard markers mounted on two pound "U" channel sign post, with bottom of marker seven feet above pavement surface.~~
- All manhole and catch basin tops built without elevations furnished by the Engineer will be the responsibility of the sewer contractor. At the time of construction stake-out of the sewer lines, all curb and grate inlets will be face staked. If normal face stakes fall in line with sewer construction the Engineer will set these stakes on a double offset. It shall be the responsibility of the sewer contractor to preserve all face stakes from destruction.
- All standard street curb inlets to have front of inlet 2 feet behind curb.
- The minimum vertical distance from the low point of the basement to the flowline of a sanitary sewer at the corresponding house connection shall not be less than the diameter of the sanitary sewer plus a vertical distance not less than two and one half feet (2-1/2').
- Water lines, valves, sleeves, meters and etc. shall meet all specifications and installation requirements of the local governing authority.
- All cast iron pipe for water mains shall conform to AWWA specification C-106 and/or C-108. The cast iron fittings shall conform to AWWA specification C-110. All rubber gasket joints for water cast iron pressure pipe and fittings shall conform to AWWA specification C-111.
- All water hydrants and valves shall be cast iron and installed in accordance with plans and details.
- All sanitary and storm sewers shall meet all specifications and installation requirements of the local governing authority.
- All P.V.C. water pipe shall have a minimum pressure rating of PR-200 or SDR-21.
- All P.V.C. sanitary sewer pipe to be DR-35 or equal with crushed stone bedding uniformly graded between 1" and 1/4" size. This bedding shall extend from 6" below the pipe to 7/10 of the pipe dia. above the bottom of the pipe.
- All grading on Missouri State Highway Right-of-Way shall be seeded and mulched and all disturbed Right-of-Way Markers shall be reset at the completion of grading.
- All streets must meet the specifications and installation requirements of the City of O'Fallon.
- This tract is served by
  - Duckett Creek Sewers
  - St. Charles County Water Dist. 2
  - Union Electric
  - Laclede Gas
  - Contel Telephone
  - Cottleville Fire Dist.



SHEET	DESCRIPTION
1	COVER SHEET
2-3	FLAT PLAN
4-5	GRADING PLAN
6-8	STREET PROFILES
9-10	SANITARY SEWER PROFILES
11-12	STORM SEWER PROFILES
13-14	DRAINAGE AREA MAPS
15-17	CONSTRUCTION DETAILS

### LEGEND

C.I.	Curb Inlet
D.C.I.	Double Curb Inlet
A.I.	Area Inlet
G.I.	Grate Inlet
M.H.	Manhole
F.E.	Flared end section
E.P.	End pipe
C.P.	Concrete pipe
R.C.P.	Reinforced concrete pipe
C.M.P.	Corrugated metal pipe
C.I.P.	Cast iron pipe
P.V.C.	Polyvinyl chloride pipe
V.C.P.	Vitrified clay pipe
C.O.	Clean out
V.T.	Vent trap
—●—	Storm sewer (proposed)
—○—	Sanitary sewer (proposed)
---	Existing contour
- - -	Proposed contour
+	Street sign
	End of lateral
	Lateral
5	Lot or building number
⊙	Test Hole
—x—	Existing fence line
—w—	Existing tree line
—w—	Storm sewer (existing)
—w—	Sanitary sewer (existing)
—w—	Water line
—w—	Tee and valve
—w—	Cap
⊙	Hydrant
▴	Thrust block

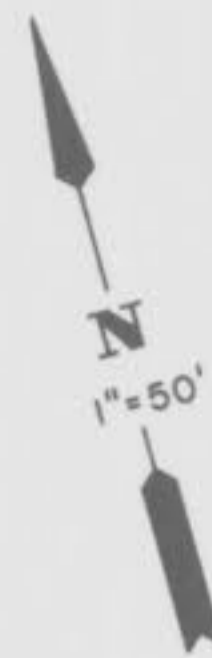
### PROJECT BENCHMARK:

Railroad Spike in West Side of 66"  
Sycamore Tree at Intersection of Fox  
Hollow Drive & Dardenne Drive,  
Dardenne Farms.  
Elev. 484.19

PROPERTY OF  
CITY OF O'FALLON  
BUILDING DEPARTMENT

	CIVIL ENGINEERS LAND SURVEYORS <b>Pickett</b> <b>Ray</b> <b>&amp; Silver</b>		PREPARED FOR: T. B. FARMS DEVELOPMENT CO. 661 BENT BROOK COURT ST. LOUIS, MISSOURI 63122 (314) 965-2889
	348 MID RIVERS DRIVE ST. PETERS, MO. 63376	278-1211 441-1211	DRAWN BY: [Signature] DATE: [Blank] CHECKED BY: [Signature] DATE: [Blank]

84-067



PROPERTY N/F PAUL LOEFFLER 298/1111



DEVELOPMENT

FUTURE

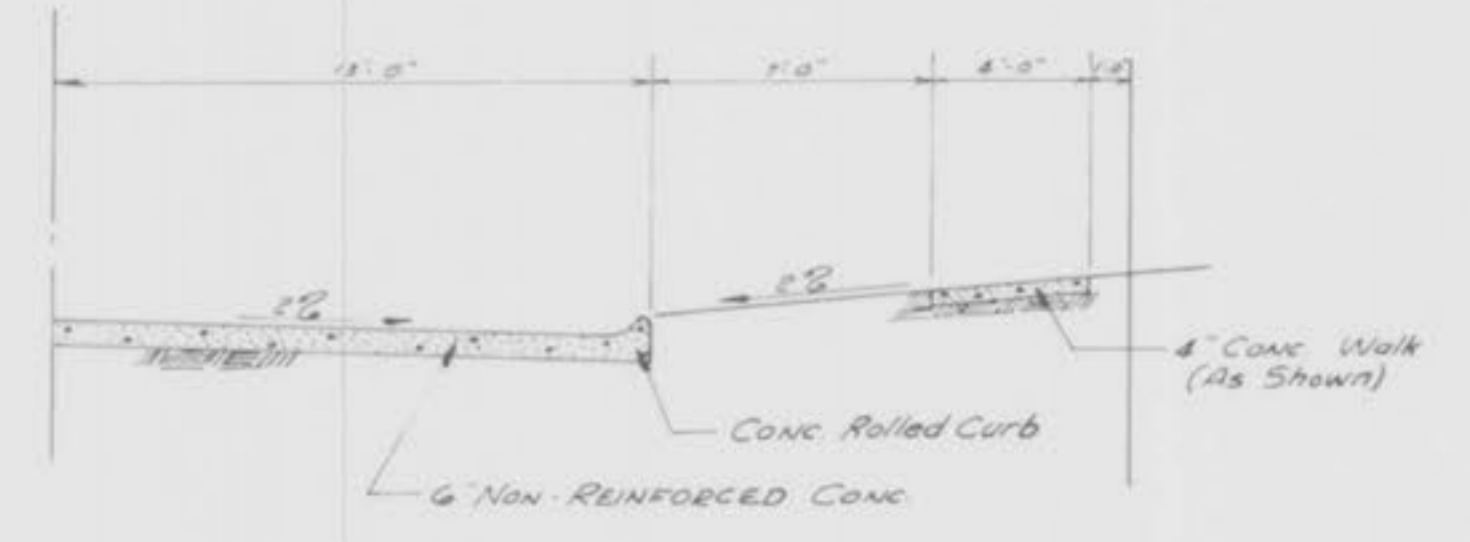
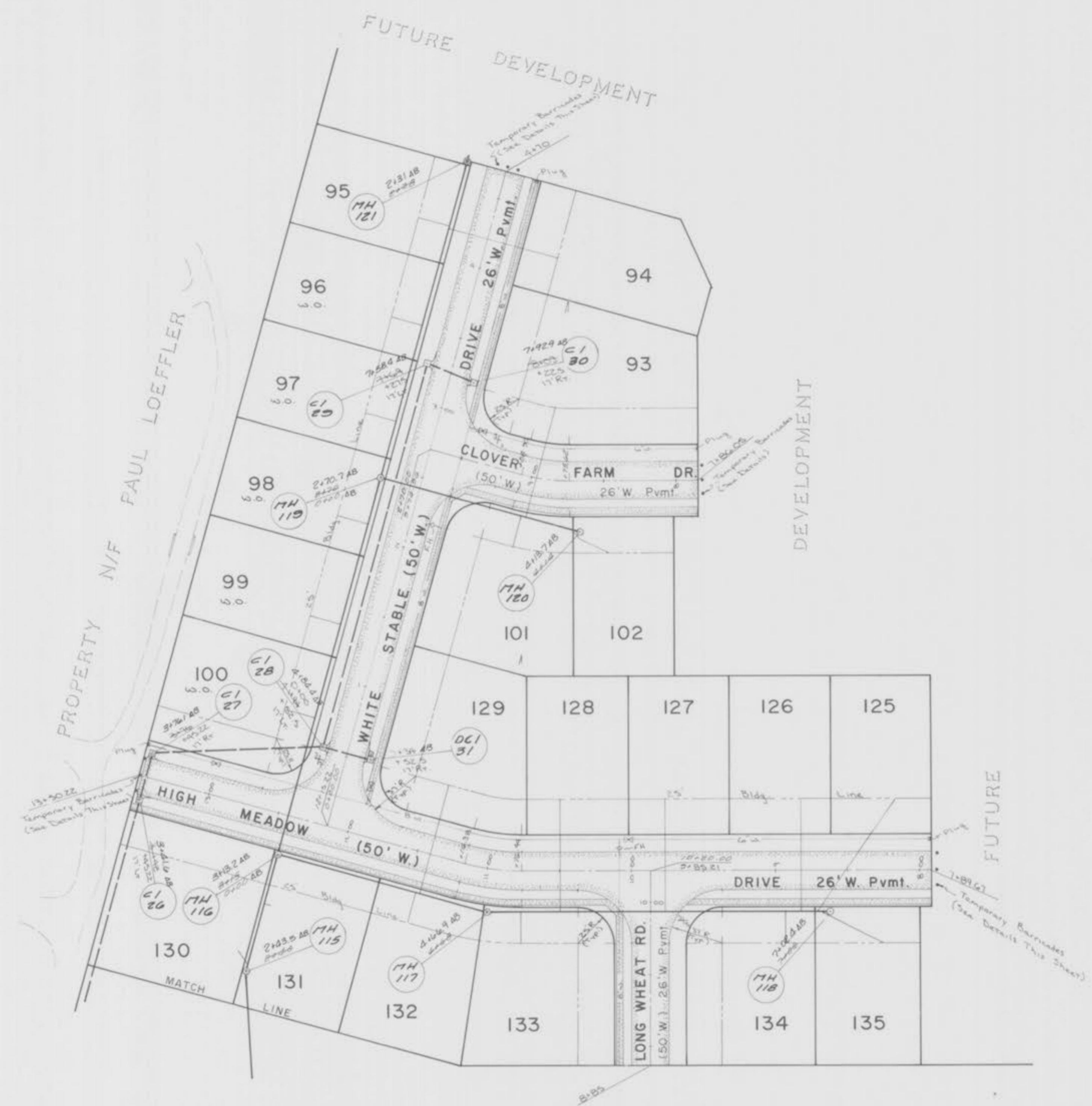
MATERIALS TO BE USED ON STATE RIGHT-OF-WAY  
**CONCRETE SURFACE**  
 6" Sack Mix  
 8" Concrete  
 6 x 6 x 6 Steel Mesh (3" below finished grade)  
 4" Rolled Stone Base  
 Integral Concrete Curb (6" Vertical) (5/8" Steel Dowels @ 2'-0")

**ASPHALT SURFACE**  
 8" Rolled Stone Base or 6" Type X (Black Base)  
 3" Asphalt Top (Type C)  
 Machine Laid  
 Asphalt Curb (6" Vertical)

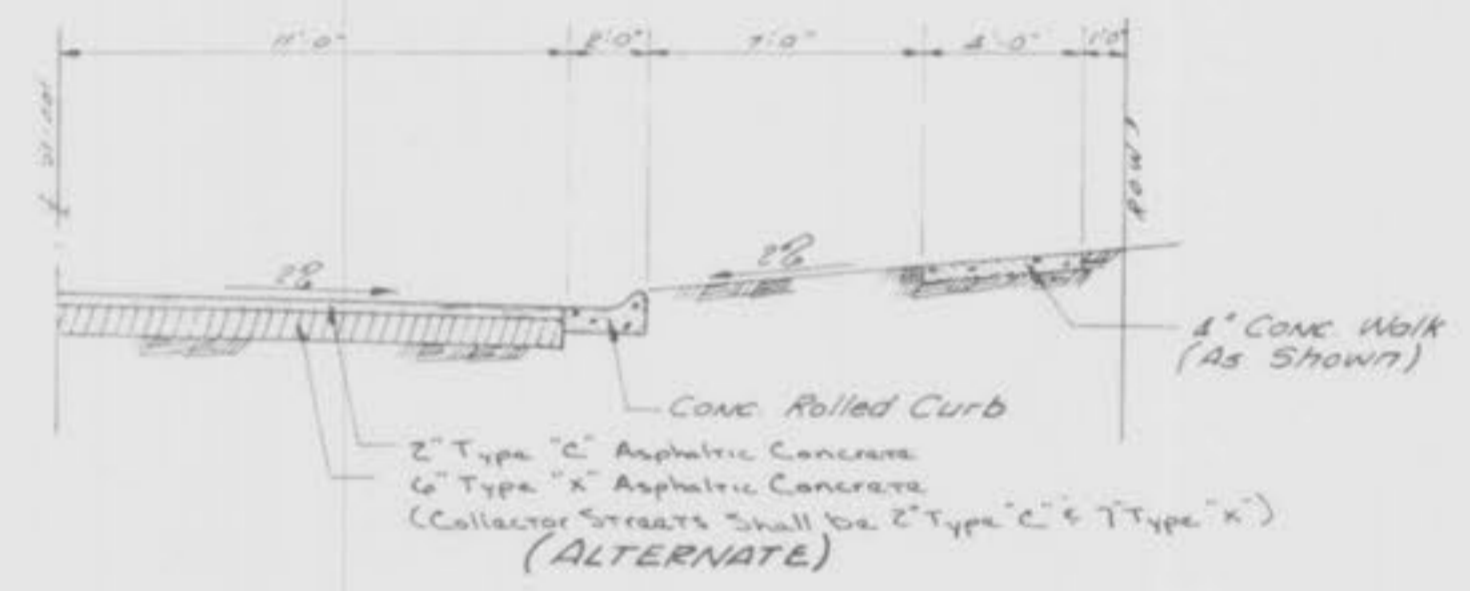
All entrances shall meet the specifications and installation requirements of the City of O'Fallon and the Missouri Highway & Transportation Department.

AS BUILTS

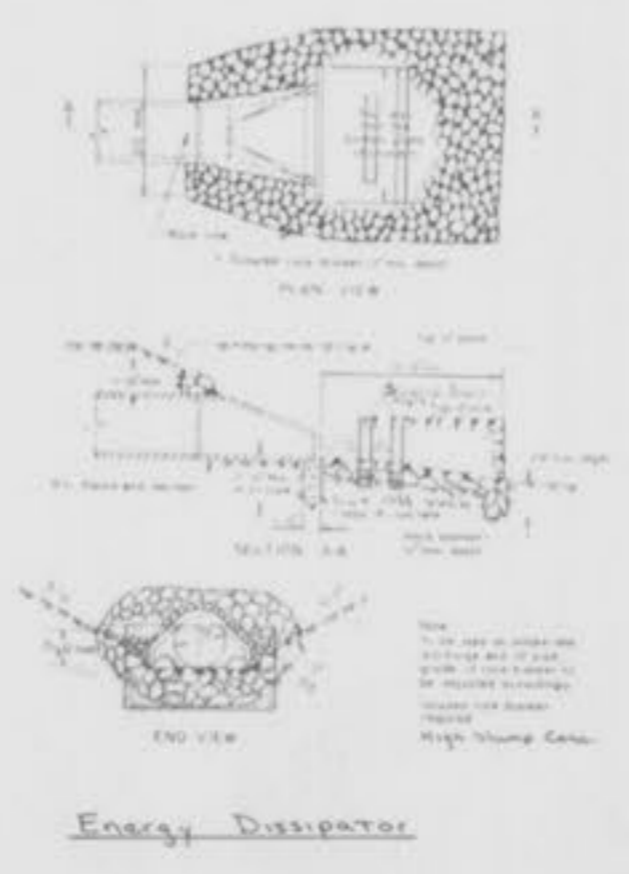
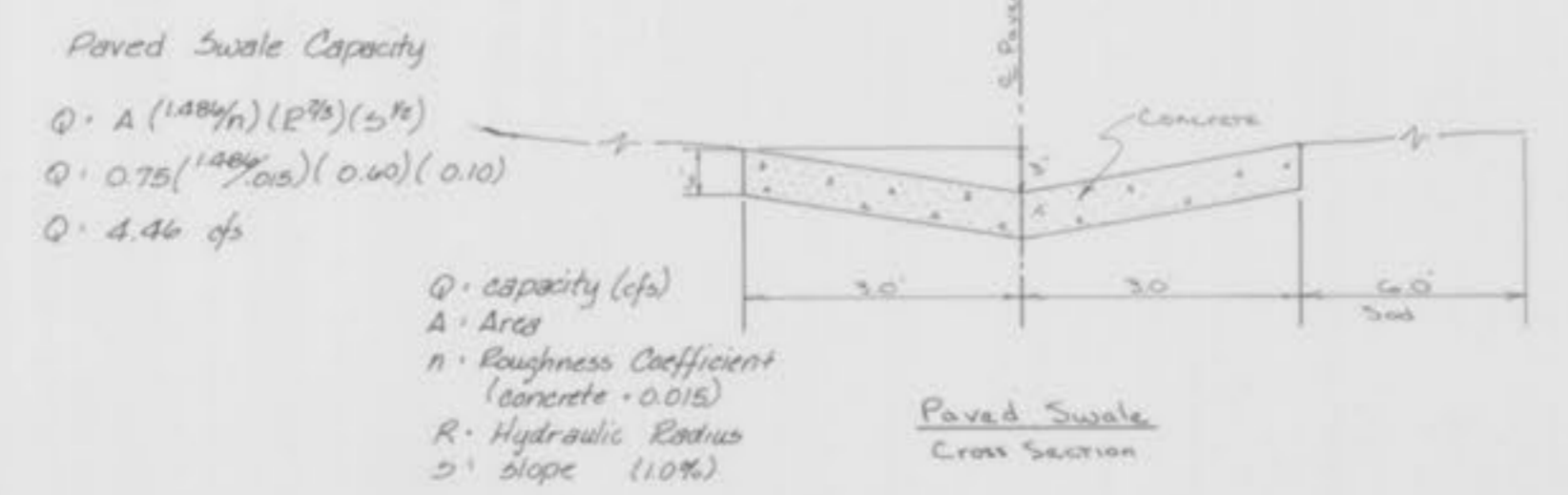
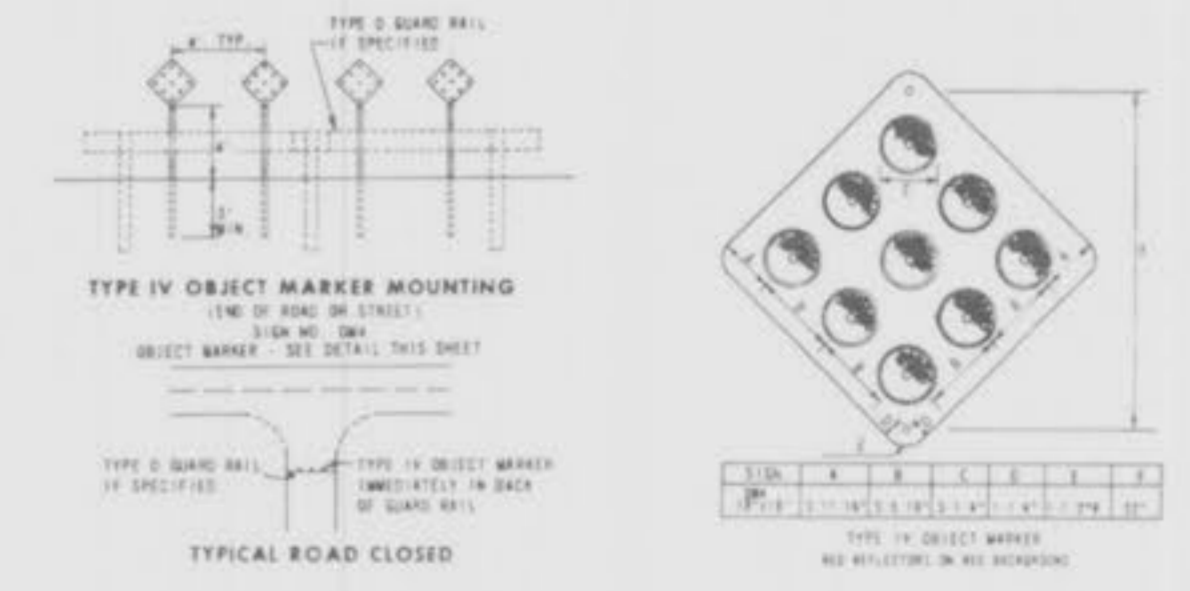
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TYPICAL PAVEMENT 1/2 SECTION

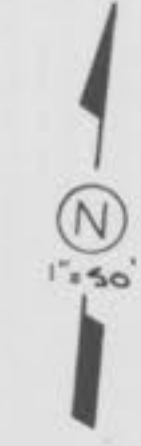
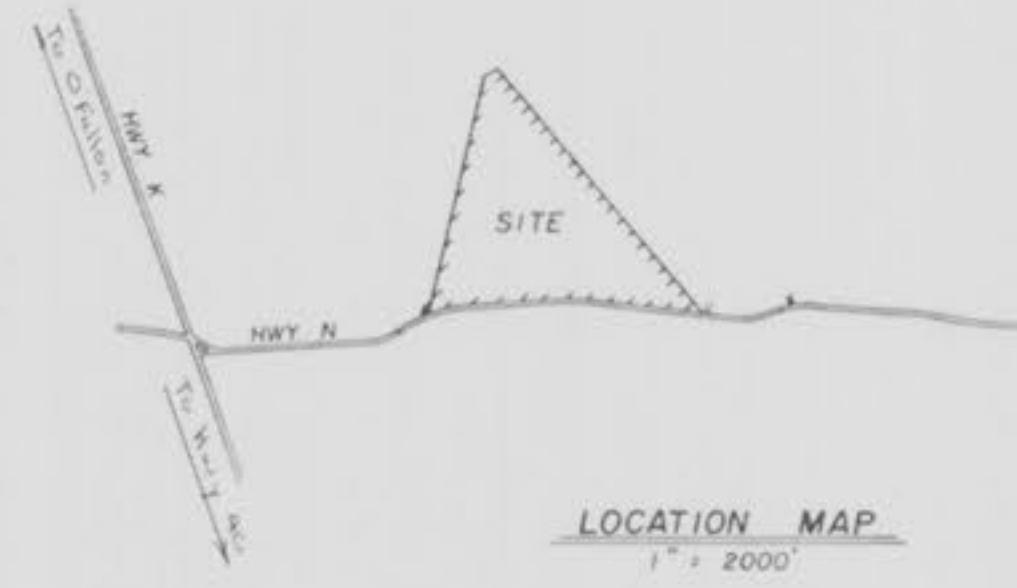
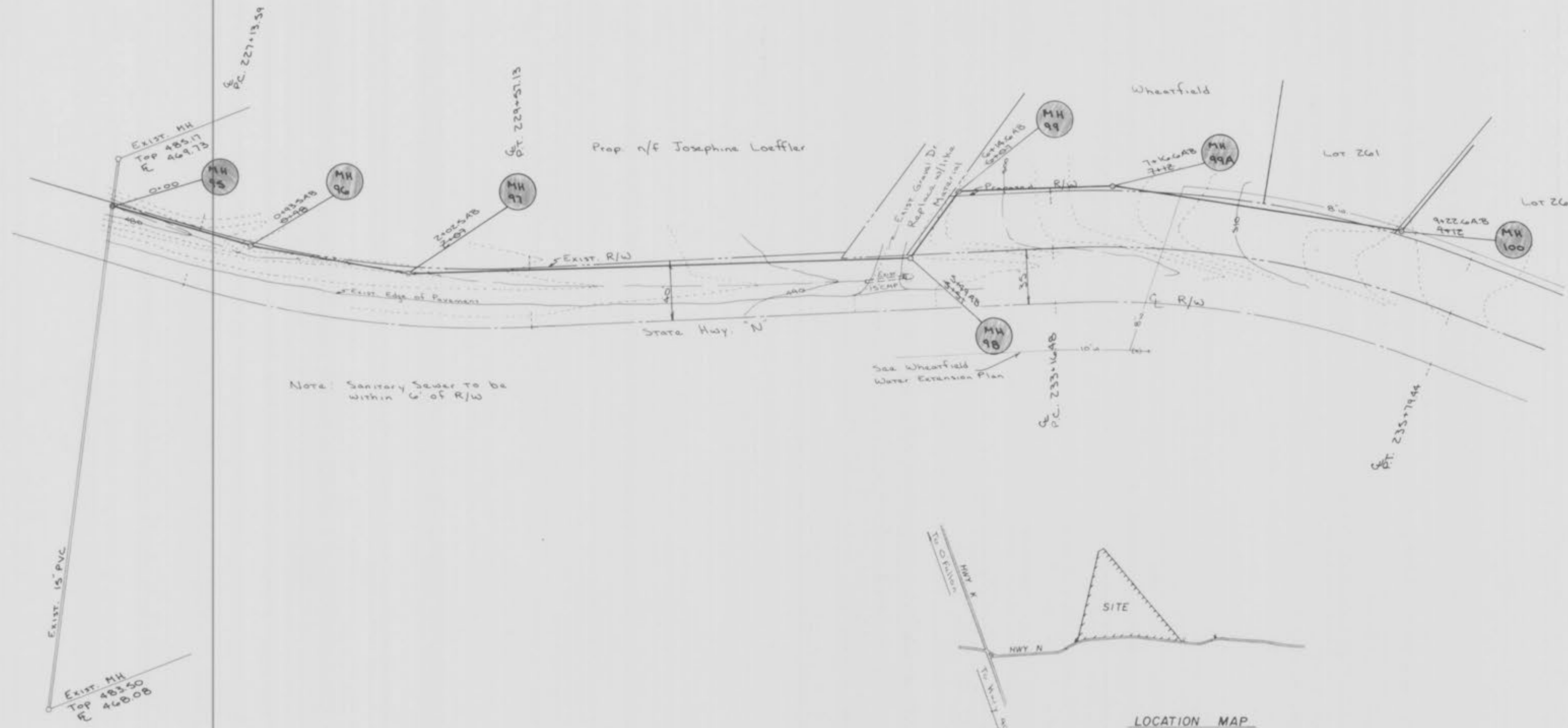


TYPICAL PAVEMENT 1/2 SECTION (ALTERNATE)



DATE	
BY	
CHECKED	
PLANNING	
DESIGNED	
NOTED	
NO.	

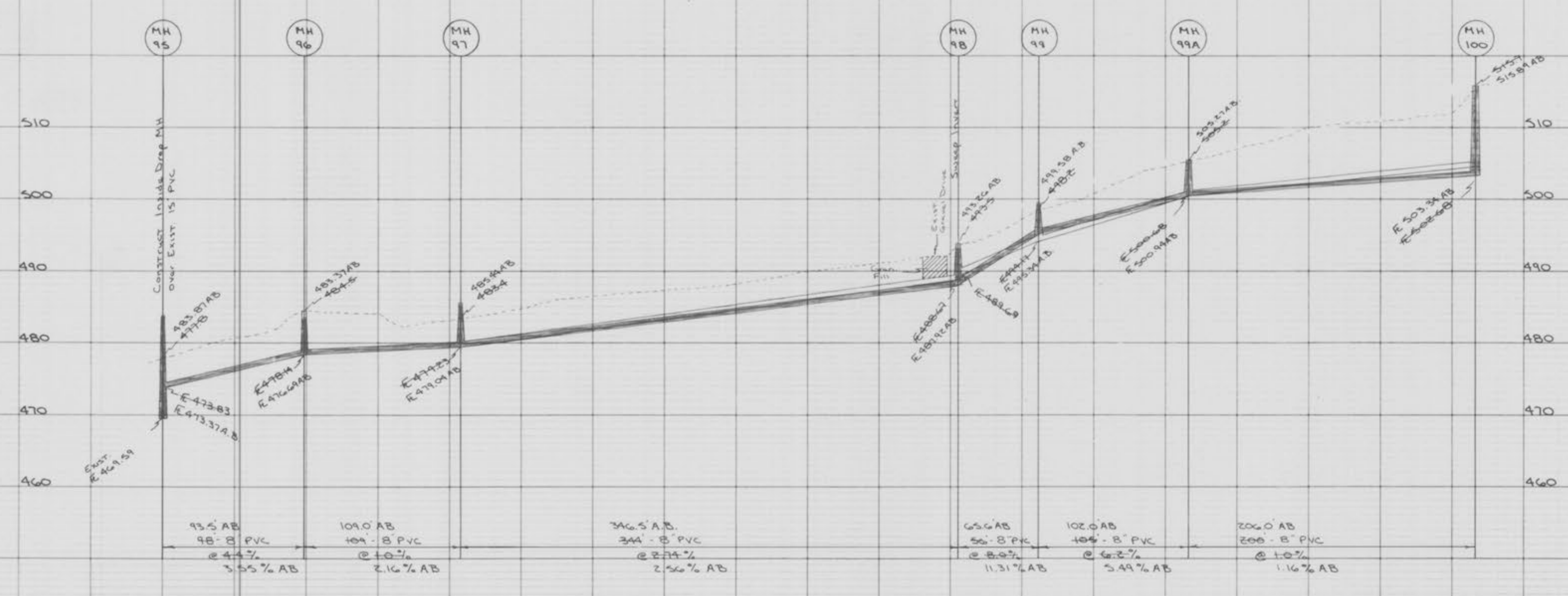
DATE	
BY	
CHECKED	
PLANNING	
DESIGNED	
NOTED	
NO.	



<b>Pickett, Ray &amp; Silver, Inc.</b>		Sanitary Sewers To Wheatfield	
ENGINEERS	LAND SURVEYORS	DRAWN BY	DATE April 1982
2701 W. RIVERS DRIVE	2701 W. RIVERS DRIVE	CHECKED	DATE
ST. PETERS, MO. 65076	ST. PETERS, MO. 65076	FIELD BOOK	PROJECT NUMBER 8A-067

Revised April 13. Added MH  
May 15. 8" PVC  
July 2. Added Water Line  
Sept. 16. Av. Builts (AB)

Scale  
Vert. 1" = 10'  
Horz. 1" = 50'

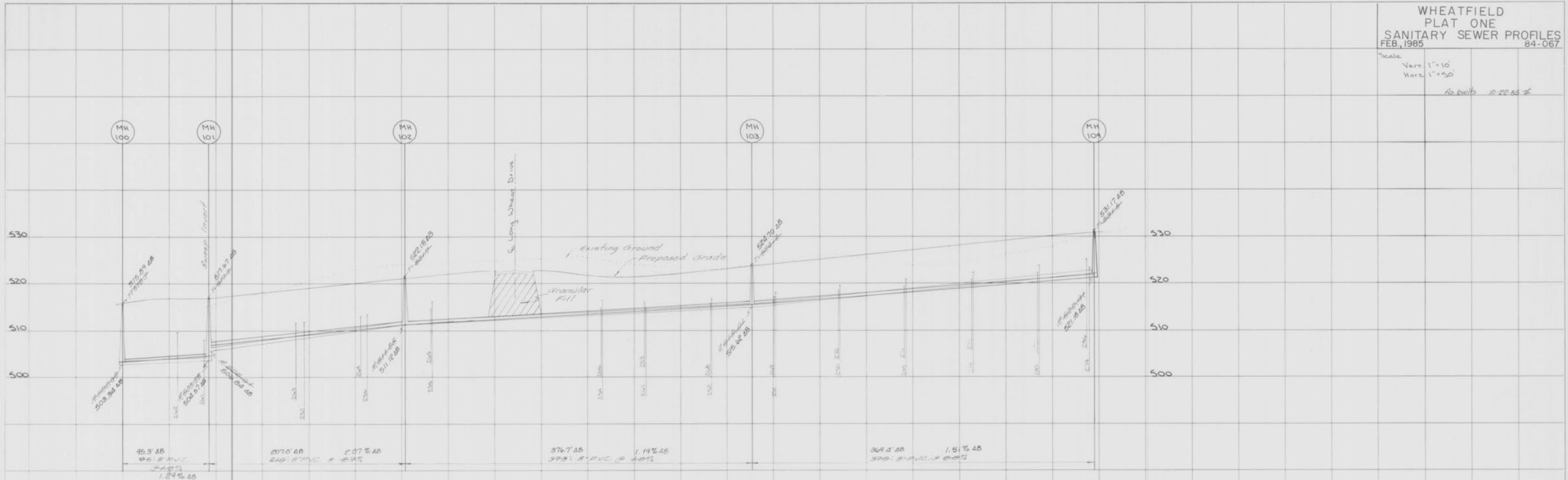


- NOTES:
1. The verification of the location of all underground utilities shall be the responsibility of the contractor, and shall be located prior to construction of improvements.
  2. Polyvinyl Chloride (PVC) shall conform to the requirements of ASTM D-3034 Standard Specifications for the PSM Polyvinyl Chloride (PVC) Sewer Pipe and Fittings, SDR35.
  3. All Sanitary Trench backfills will be water jetted. Granular backfill will be used under pavement areas.
  4. All Manhole top built without elevations furnished by the Engineer will be the responsibility of the sewer contractor.
  5. All Sanitary Sewer shall meet all specifications and installation requirements of the local governing authority.
  6. All PVC Sanitary Sewer pipe to be DR-35 or equal with crushed stone bedding uniformly graded between 1" and 1" size. The bedding shall extend 6" below the pipe to 7/10 of the pipe diameter above the bottom of the pipe.

WHEATFIELD  
PLAT ONE  
SANITARY SEWER PROFILES  
FEB, 1985 84-067

Scale  
Vert. 1"=10'  
Horiz. 1"=50'  
As built 10-22-85

FINAL SURVEY  
DATE: 10/1/84  
BY: [Signature]



ORIGINAL SURVEY  
DATE: 10/1/84  
BY: [Signature]



AS BUILTS

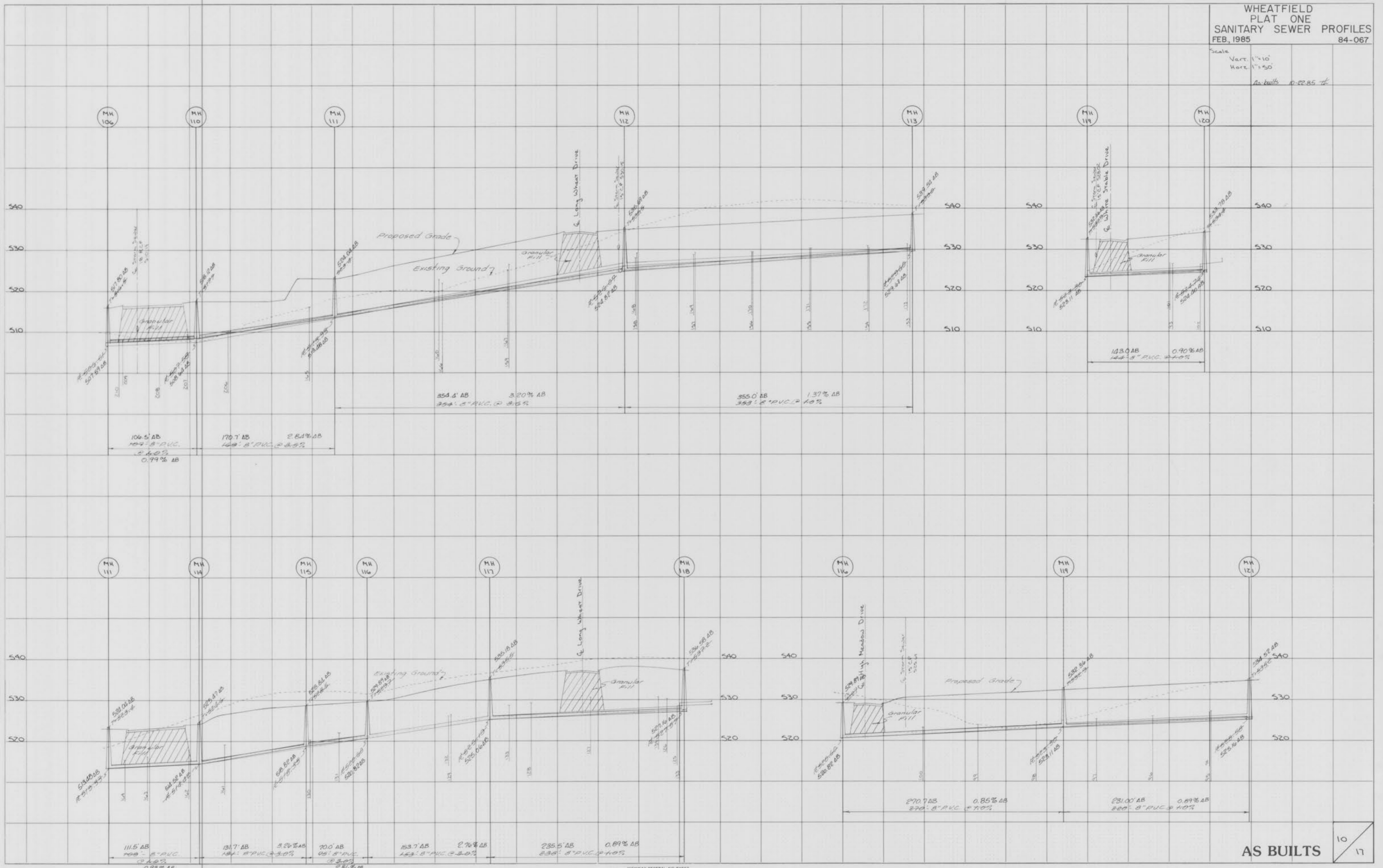
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WHEATFIELD  
PLAT ONE  
SANITARY SEWER PROFILES  
FEB, 1985 84-067

Scale  
Vert. 1"=10'  
Hori. 1"=50'  
As-built 0-22.85%

FINAL SURVEY  
DRAWN BY  
CHECKED BY  
DATE

ORIGINAL SURVEY  
DRAWN BY  
CHECKED BY  
DATE



AS BUILTS

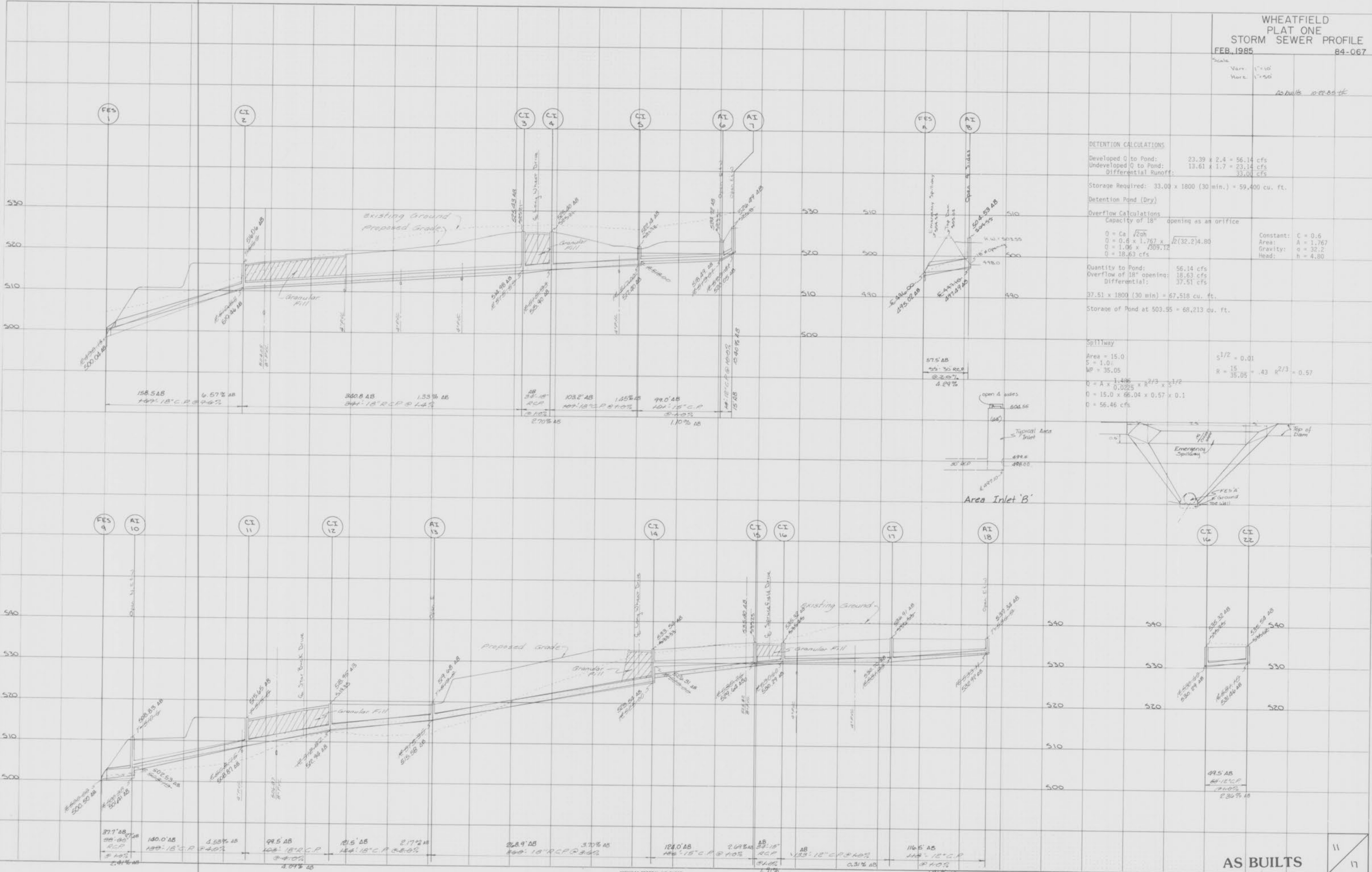
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WHEATFIELD  
PLAT ONE  
STORM SEWER PROFILE  
FEB. 1985 84-067

Scale:  
Vert. 1"=10'  
Hori. 1"=50'

FINAL SURVEY  
DATE: 11/11/84  
BY: [Signature]  
CHECKED: [Signature]  
APPROVED: [Signature]

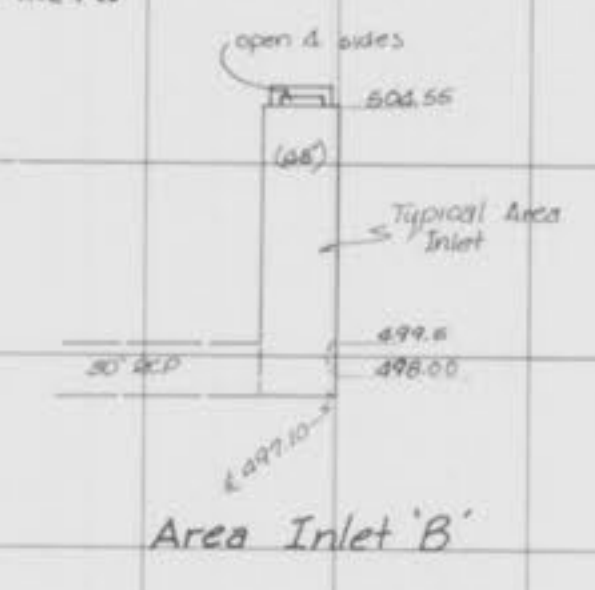
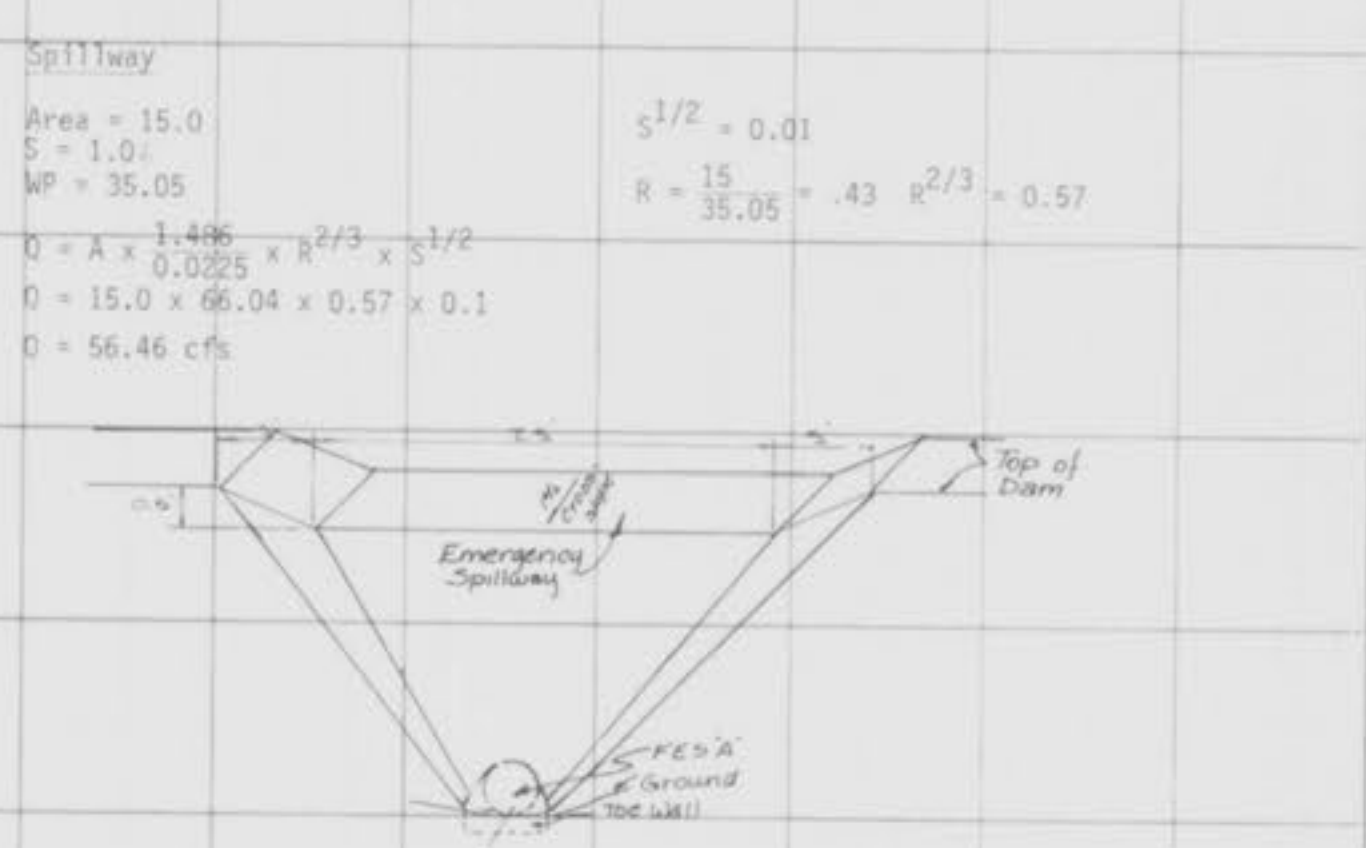
ORIGINAL SURVEY  
DATE: 11/11/84  
BY: [Signature]  
CHECKED: [Signature]  
APPROVED: [Signature]



**DETENTION CALCULATIONS**  
 Developed Q to Pond: 23.39 x 2.4 = 56.14 cfs  
 Undeveloped Q to Pond: 13.61 x 1.7 = 23.14 cfs  
 Differential Runoff: 33.00 cfs  
 Storage Required: 33.00 x 1800 (30 min.) = 59,400 cu. ft.

**Detention Pond (Dry)**  
**Overflow Calculations**  
 Capacity of 18" opening as an orifice  
 $Q = C_a \sqrt{2gh}$   
 $Q = 0.6 \times 1.767 \times \sqrt{2(32.2)(4.80)}$  Constant:  $C = 0.6$   
 $Q = 1.05 \times \sqrt{309.12}$  Area:  $A = 1.767$   
 $Q = 18.63$  Gravity:  $g = 32.2$   
 Head:  $h = 4.80$

Quantity to Pond: 56.14 cfs  
 Overflow of 18" opening: 18.63 cfs  
 Differential: 37.51 cfs  
 Storage of Pond at 503.55 = 68,213 cu. ft.



WHEATFIELD  
PLAT ONE  
STORM SEWER PROFILE  
FEB. 1985 84-067

Scale  
Vert. 1"=10'  
Hori. 1"=50'  
As built 10-22-85

FINAL SURVEY  
NUMBERED  
PLOTTED  
NOTE BOOK  
NO. 1  
AREAS CHECKED

