

GENERAL NOTES

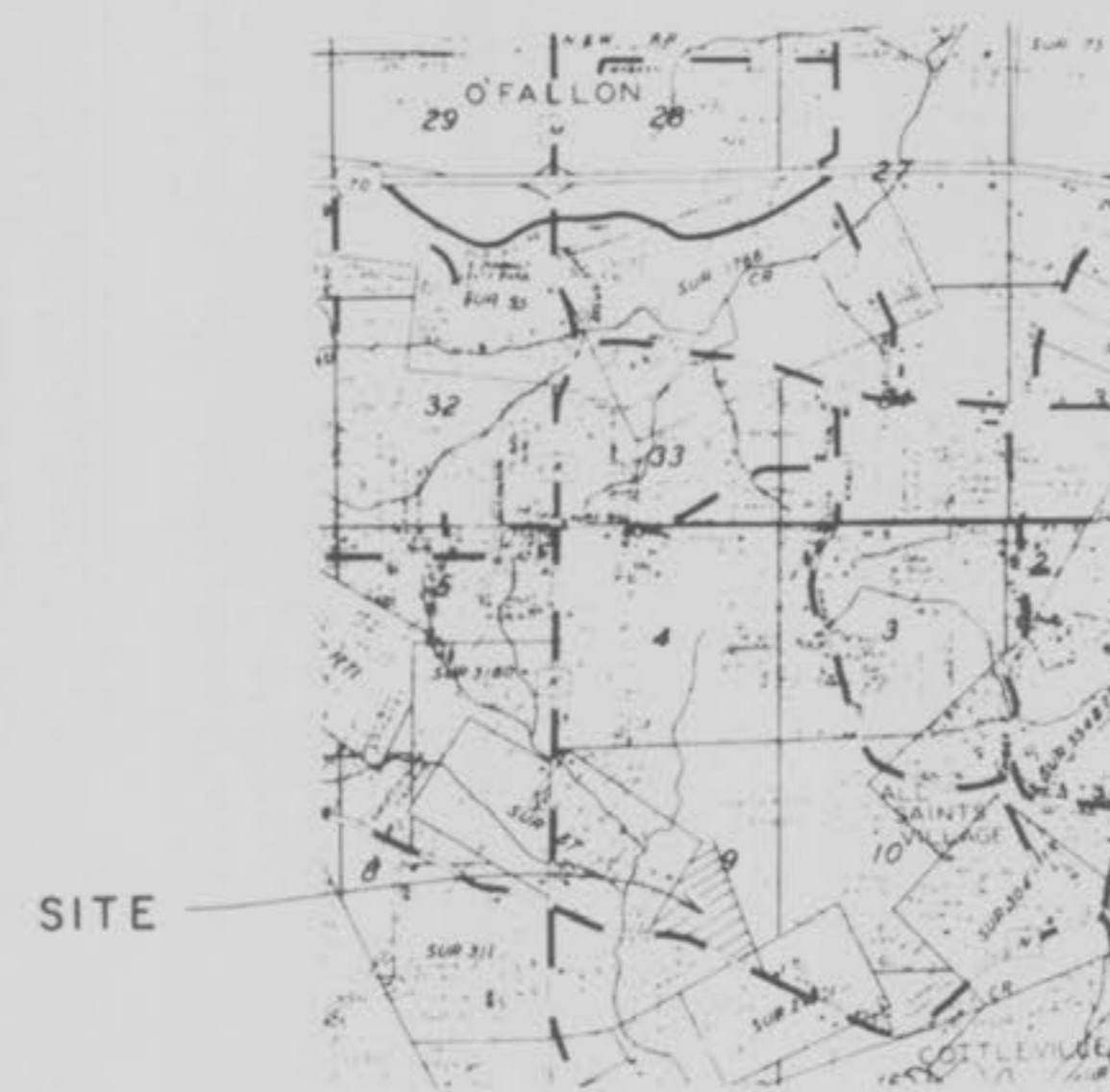
- 1 Gas, water and other underground utilities shall not conflict with the depth or horizontal location of existing and proposed sanitary and storm sewers including house laterals
- 2 Underground utilities have been plotted from available information and therefore their locations must be considered approximate 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.
- 3 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.
- 4 Storm sewers 18" diameter or smaller shall be ASTM C-14
- 5 Storm sewers 21" diameter or larger shall be ASTM C-76, Class II
- 6 All storm sewer pipe under pavement, regardless of size, shall be reinforced concrete pipe (ASTM C-76, Class II) unless noted otherwise on the plans
- 7 Corrugated metal pipe shall conform to the standard specifications for corrugated culvert pipe M36, AASHTO
- 8 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 AASHTO T-180 Compaction Test" (ASTM D-1557) unless otherwise specified by local governing authority specifications. All tests shall be verified by a Soils Engineer.
- 9 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 AASHTO T-99" (ASTM D-698) unless otherwise specified by local governing authority specifications. All tests shall be verified by a Soils Engineer.
- 10 A storm and sanitary trench backfills will be water lefted. Gravel backfill will be used under pavement areas
- 11 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
- 12 No area shall be cleared without permission of the developer
- 13 All grade shall be within 0.2 feet more or less of those shown on the grading plan
- 14 No slope shall be greater than 2:1 and shall be either sodded or seeded and mulched
- 15 Barricades will consist of three standard 12" x 36" red and white striped scotchlite hazard markers mounted on two pound "U" channel sign post, with bottom of marker seven feet above pavement surface
- 16 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, a curb and grate inlet 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
- 17 All standard street curb inlets to have front of inlet 2 feet behind curb
- 18 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')
- 19 Water lines, valves, sleeves, meters and etc. shall meet all specifications and installation requirements of the local governing authority
- 20 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
- 21 All water hydrants and valves shall be cast iron and installed in accordance with plans and details
- 22 All sanitary and storm sewers shall meet all specifications and installation requirements of the local governing authority
- 23 All PVC water pipe shall have a minimum pressure rating of PR-200 or SDR-21
- 24 All PVC sanitary sewer pipe to be PR-21 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
- 25 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
- 26 All streets must meet the specifications and installation requirements of the City of
- 27 This tract is served by

A  
B  
C  
D  
E

# WHEATFIELD

PART OF U.S. SURVEY 293 & PART OF FRAC. SEC. 9  
T. 46 N., R. 3 E., ST. CHARLES COUNTY MISSOURI

## "AS-BUILTS"



SITE

LOCATION MAP

PROJECT BENCHMARK

SHEET	DESCRIPTION
1	TITLE SHEET
2-3	FLAT PLAN
4-6	SANITARY SEWER PROFILE
7-8	STORM SEWER PROFILE

LEGEND

CI	Curb Inlet
D.C.I.	Double Curb Inlet
A.I.	Area Inlet
G	Grate Inlet
M.H.	Manhole
FE	Flared end section
EP	End pipe
CP	Concrete pipe
RCP	Reinforced concrete pipe
CMP	Corrugated metal pipe
CIP	Cast iron pipe
PVC	Polyvinyl chloride pipe
VC.P	Vitrified clay pipe
CO	Clean out
VT	Vent trap
---	Storm sewer (proposed)
---	Sanitary sewer (proposed)
---	Existing contour
---	Proposed contour
---	Street sign
---	End of lateral
---	Lateral
5	Lot or building number
---	Tie Hole
---	Existing fence line
---	Existing tree line
---	Storm sewer (existing)
---	Sanitary sewer (existing)
---	Water line
---	Tree and valve
---	Hydrant
---	Thrust block

This is to certify to Duckett Creek Sewer Dist. that these "As-Built" San. Storm plans are based on actual field surveys conducted during April, 1992 and the results are shown here on.

by Pickett Ray & Silver

Delmar F. Vincent  
MO R.L.S. No 1869

Date

This is to certify to Duckett Creek Sewer Dist. that these "As-Built" San. Storm plans are based on actual field surveys conducted during Sept., 1991 and the results are shown here on.

by Pickett Ray & Silver

Delmar F. Vincent  
MO R.L.S. No 1869

Date

"AS-BUILTS"



T.B. FARMS DEVELOPMENT CO.  
661 BENT BROOK COURT  
ST. LOUIS, MO 63122  
314-965-2889

84-067

AS-BUILTS  
WHEATFIELD - PART 4

1/7

"AS-BUILTS"  
 12-19-89, DWL  
 9-3-91, KAW  
 4-24-92, KAW

WHEATFIELD PLAT TWO FLAT PLAN		84-067
Rev 2-1-85	DR	LAY. STATIONS
Rev 6-15-88	SA	WATER LINES
Rev 7-1-88	SA	STORM SEWER
Rev 7-2-88	SA	A.I. 11
Rev 7-25-88	SA	PLANS & NOTES
Rev 8-11-88	SA	PLAN & NOTES
Rev 11-15-84	KAW	PROJ. WHEATFIELD



NOTE: Shaded "balloons" indicate "As-Built" structures.

Typical "As-Built" Fire Hydrant

- MATERIALS TO BE USED ON STATE RIGHT-OF-WAY
- CONCRETE SURFACE**
- 6" Sack Mix 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'C-C)
- 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.

All Entrances Shall Have A Minimum Sight Distance OF 500' After Construction.

Note: 41.39 shall be type S-2 inlet Refer to sheet 604.27c pg 1-3 of Missouri Standard Plans for Highway Construction for details.

1-24-90  
 9-3-91  
 2/7  
 2/7

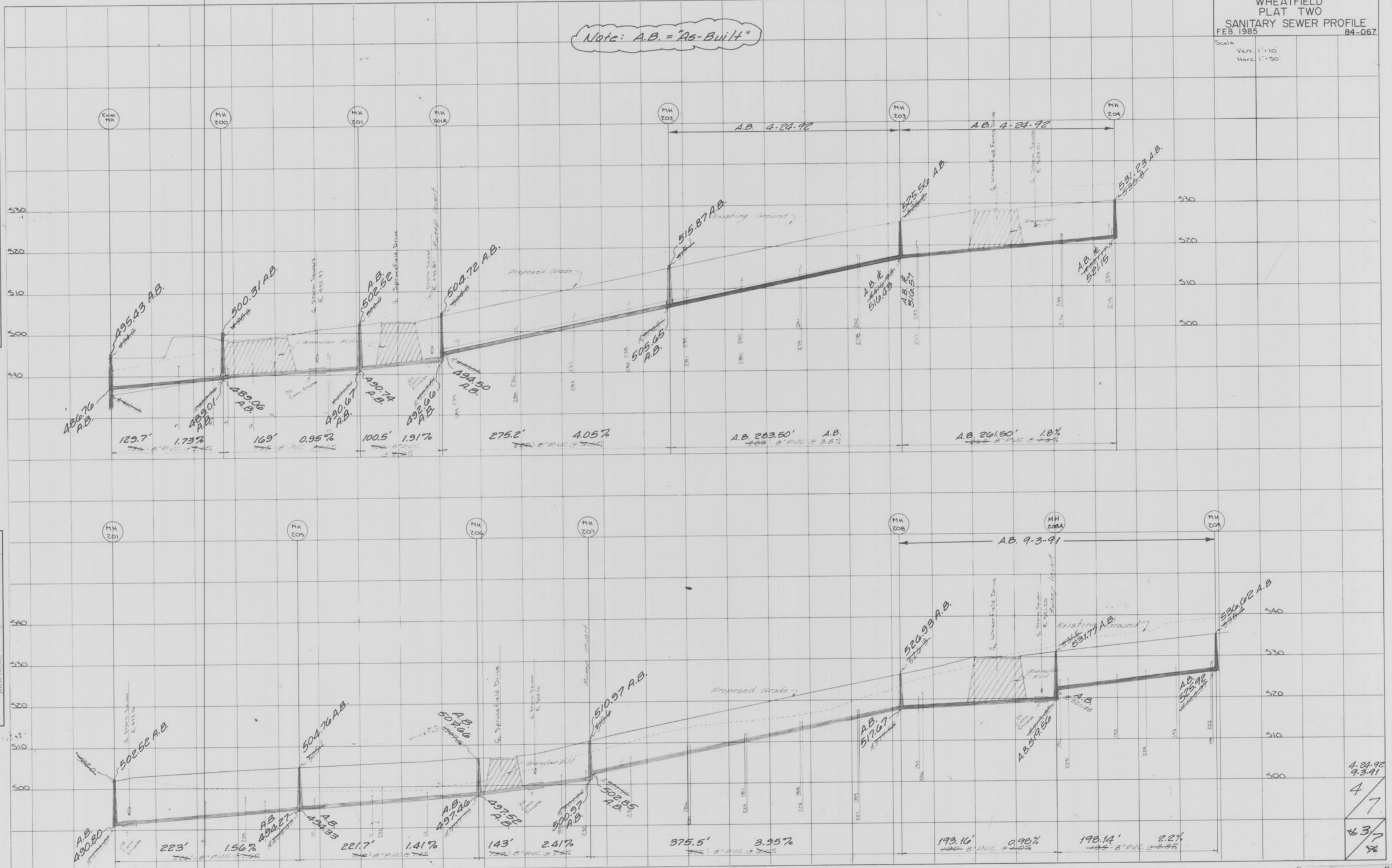
"AS-BUILTS"  
 WHEATFIELD PLAT 4



NOTE: SHADED "BALLOONS" INDICATE "AS-BUILT" STRUCTURES.

9.5.91
3/7
3/8

Note: A.B. = "As-Built"



FINAL SURVEY  
 DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 DATE: \_\_\_\_\_

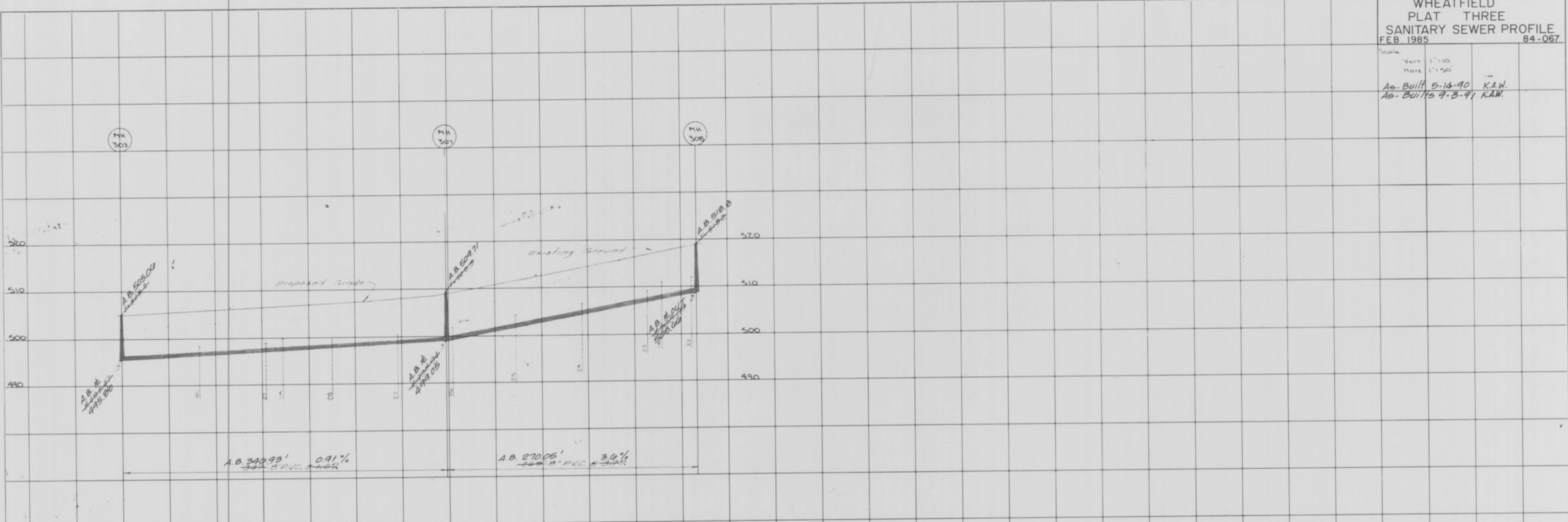
ORIGINAL SURVEY  
 DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
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 DATE: \_\_\_\_\_

WHEATFIELD  
PLAT THREE  
SANITARY SEWER PROFILE  
FEB 1985 84-067

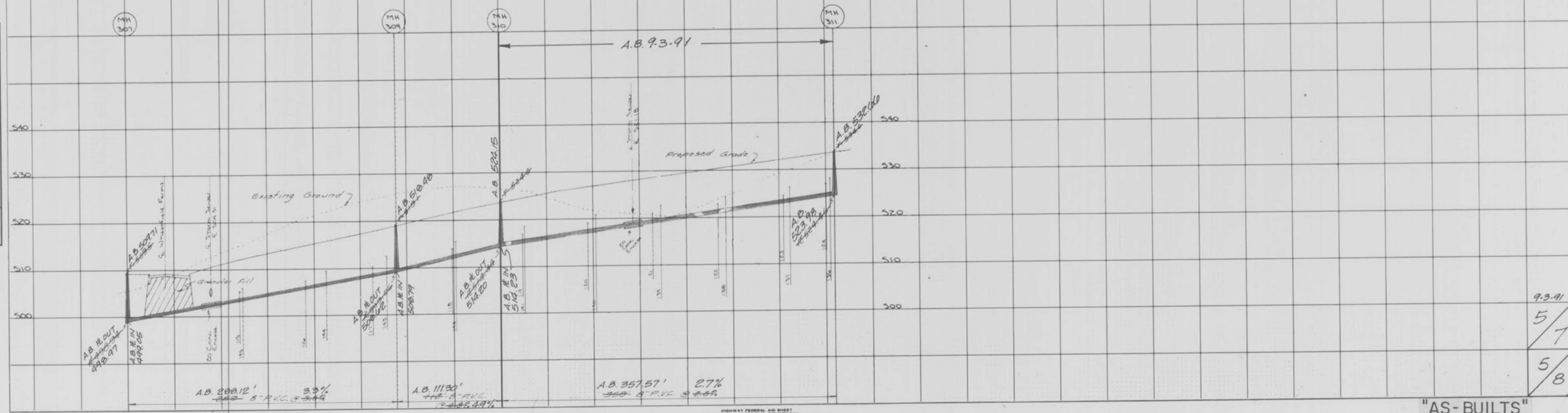
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Hori 1"=20'  
As-Built 5-14-90 K.A.W.  
As-Built 9-3-91 K.A.W.

FINAL SURVEY  
DATE  
BY  
PLANNING  
NOTED  
DATE  
NO.

ORIGINAL SURVEY  
DATE  
BY  
PLANNING  
NOTED  
DATE  
NO.



NOTE: A.B. = AS-BUILT



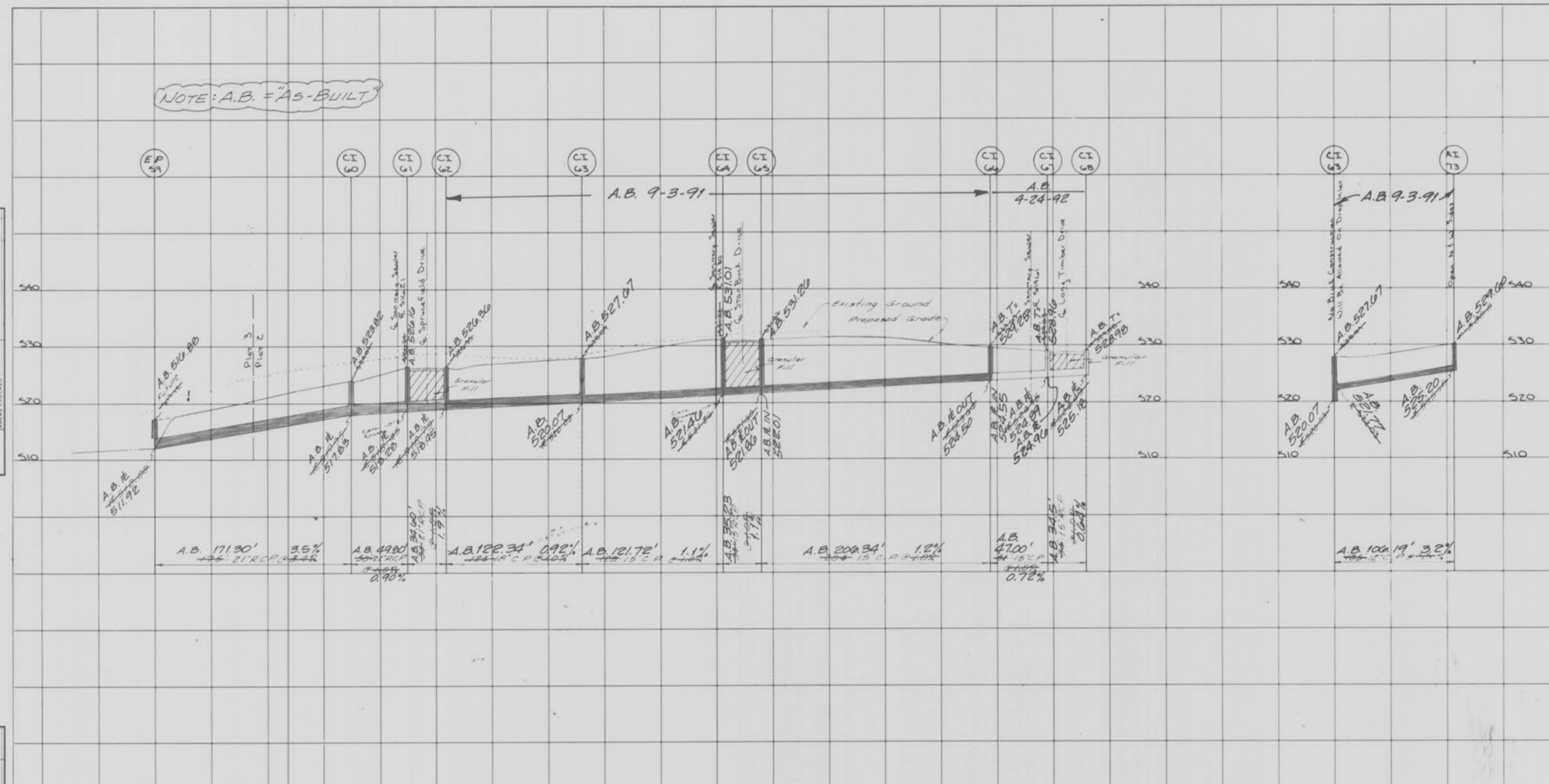
9-3-91  
5/7  
5/8

"AS-BUILTS"

Scale  
Vert 1"=10'  
Horiz 1"=50'

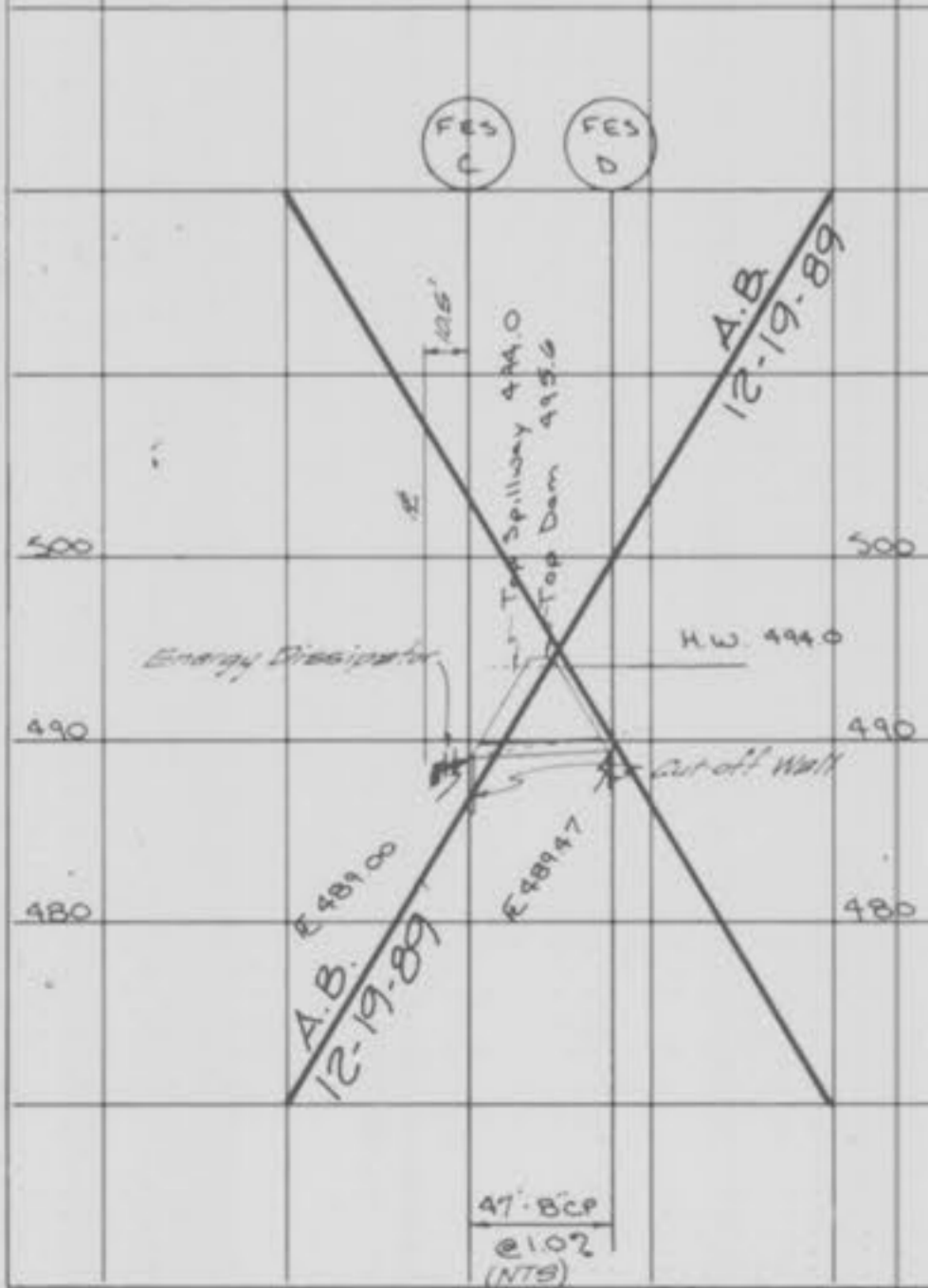
As-Built 5-18-90 K.A.W.  
As-Built 9-3-91 K.A.W.  
As-Built 4-24-92 K.A.W.

NOTE: A.B. = "AS-BUILT"



FINAL SURVEY  
DATE  
BY  
SURVEYED  
NOTED  
PLATTED  
NOTES  
NO. CHECKED  
AREAS

ORIGINAL SURVEY  
DATE  
BY  
SURVEYED  
NOTED  
PLATTED  
NOTES  
NO. CHECKED  
AREAS



**DETENTION CALCULATIONS**

Developed Q to Pond: 14.18 x 2.4 = 34.02 cfs  
Undeveloped Q to Pond: 2.42 x 1.7 = 4.11 cfs  
Differential Runoff: 29.91 cfs

Storage Required: 29.91 x 1800 (30 min.) = 53,838 cu. ft.

**Detention Pond (Dry)**

**Overflow Calculations**

Capacity of 8" opening as an orifice

$Q = C_d A \sqrt{2gh}$   
 $Q = 0.6 \times 0.349 \times \sqrt{2(32.2)4.27}$   
 $Q = 0.21 \times \sqrt{274.99}$   
 $Q = 3.47 \text{ cfs}$

Constant: C = 0.6  
Area: A = 0.349  
Gravity: g = 32.2  
Head: h = 4.27

Quantity to Pond: 34.02 cfs  
Overflow of 8" opening: 3.47 cfs  
Differential: 30.55 cfs

30.55 x 1800 (30 min) = 54,990 cu. ft.

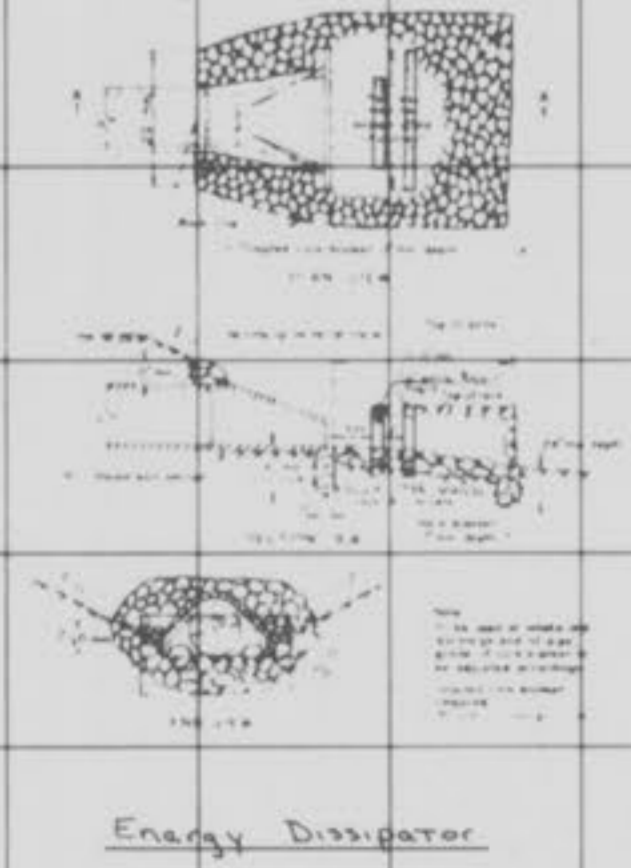
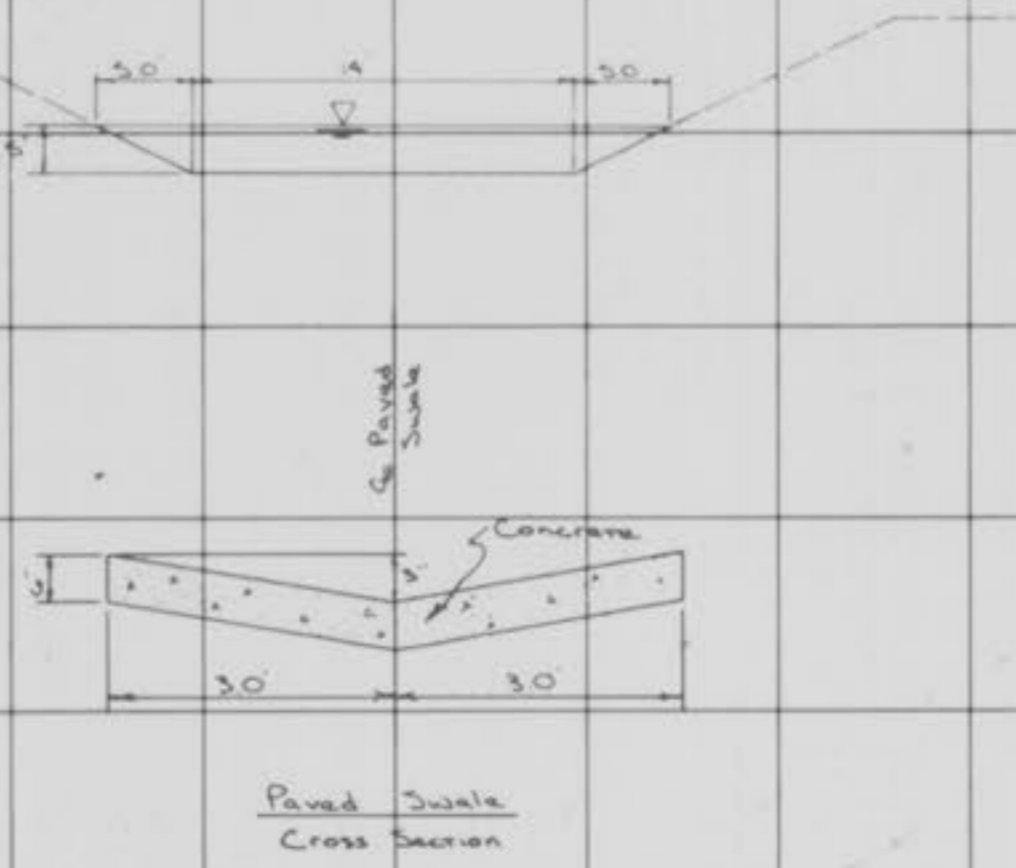
Storage of Pond at 494.00 = 67,768 cu. ft.

**Spillway**

Area = 9.5  
WP = 24.05  
S = 1.0%

$S^{1/2} = 0.10$   
 $R^{2/3} = \frac{9.5}{24.05} = 0.40$   $R^{2/3} = .543$

$Q = A \times 1.486 \times R^{2/3} \times S^{1/2}$   
 $Q = 9.5 \times 66.04 \times .543 \times .1$   
 $Q = 34.07 \text{ cfs}$

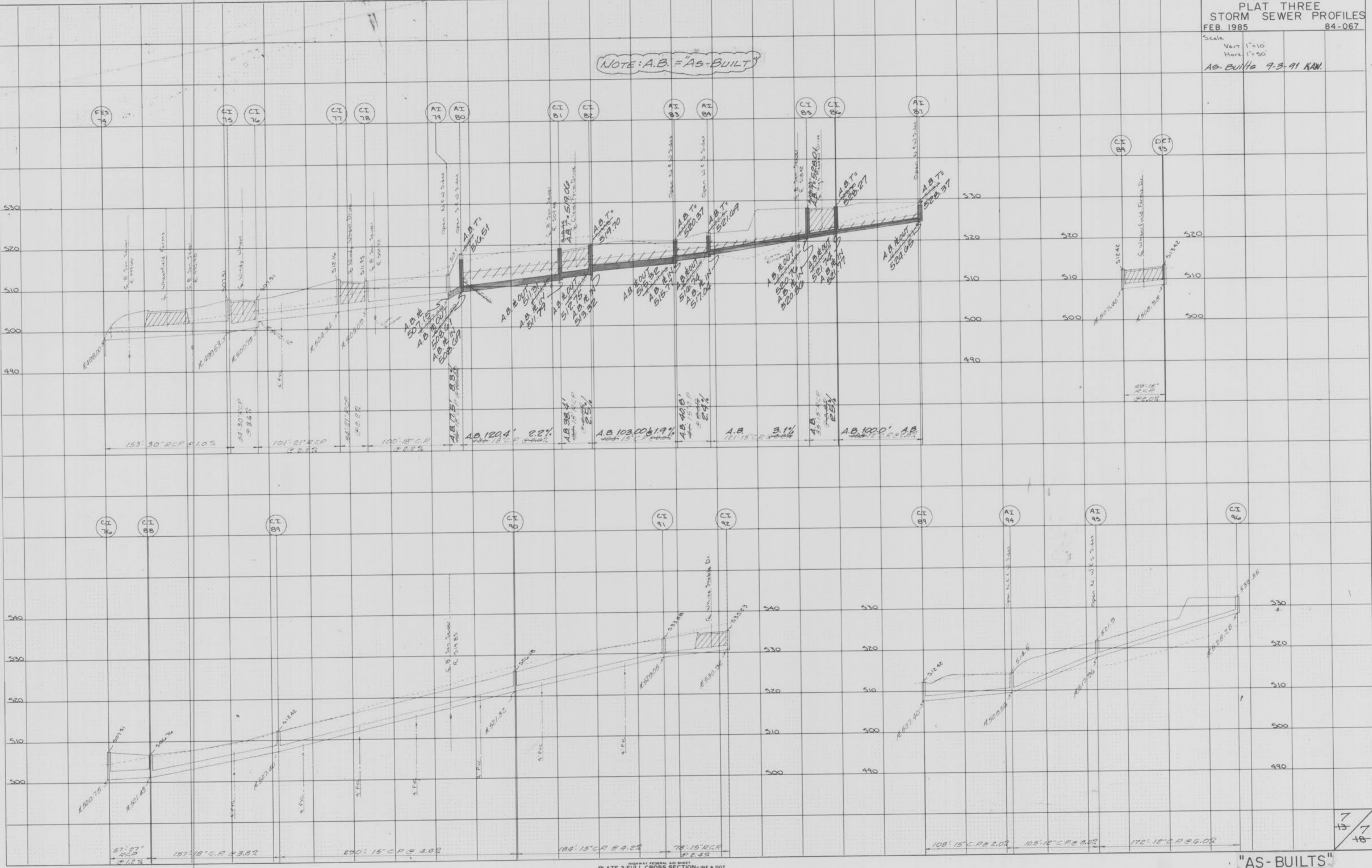


4-24-92  
7-3-91  
6  
7  
8  
8

NOTE: A.B. = "AS-BUILT"

FINAL SURVEY  
 DRAWN BY  
 CHECKED BY  
 DATE

ORIGINAL SURVEY  
 DRAWN BY  
 CHECKED BY  
 DATE



HIGHWAY FEDERAL AID SHEET  
 PLATE 3-FULL CROSS SECTION LINE & DOT  
 W/TELEPHONE  
 PRINTED IN U.S.A.

"AS-BUILTS"