

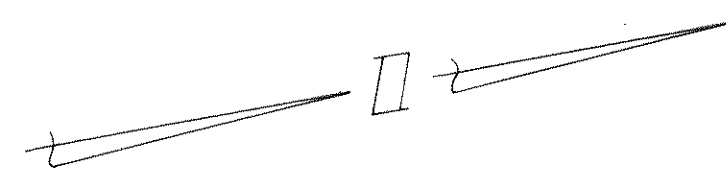




Remaining Property of Simmons

Appalachian Power Co.

ROUTE 604 (use discontinued)



NOTE: No wells are located within 50' of all proposed sewer.

DESIGN DATA:

Minimum line capacity: Sewer run from SMH 5 to SMH 6  
 Slope = 1.00%, n = 0.013  
 Q = 781,194 gpd  
 V = 3.5 fps

Line Flow Velocities:

| From SMH | to SMH | Capacity (gpd) | Velocity (fps) |
|----------|--------|----------------|----------------|
| 1        | 2      | 1,104,775      | 4.9            |
| 2        | 3      | 1,408,317      | 6.2            |
| 3        | 4      | 1,295,464      | 5.7            |
| 4        | 4A     | 956,763        | 4.2            |
| 4        | 5      | 1,171,791      | 5.2            |
| 5        | 6      | 781,194        | 3.5            |
| 6        | 7      | 1,171,791      | 5.2            |
| 7        | 8      | 873,401        | 3.9            |
| 8        | 9      | 2,209,550      | 9.8            |

"AS-BUILTS"  
7-24-91

DRAINAGE AREA MAP &  
GENERAL PLAN

| DATE      |   |   |   |   |   |   |  |  |  |
|-----------|---|---|---|---|---|---|--|--|--|
| REVISIONS | 6 | 5 | 4 | 3 | 2 | 1 |  |  |  |

DATE May 23, 1990 SCALE 1" = 100'

JOB No. 890216 CHKD. RGL

0 50' 100' 200' 400'

**LANG ENGINEERING Co.**  
 Consulting Engineers • Land Planners

P.O. Box 565  
 Daleville, Va. 24083  
 (703) 992-5520

COMMONWEALTH OF VIRGINIA  
 RICHARD G. LANG  
 No. 16720  
 PROFESSIONAL ENGINEER

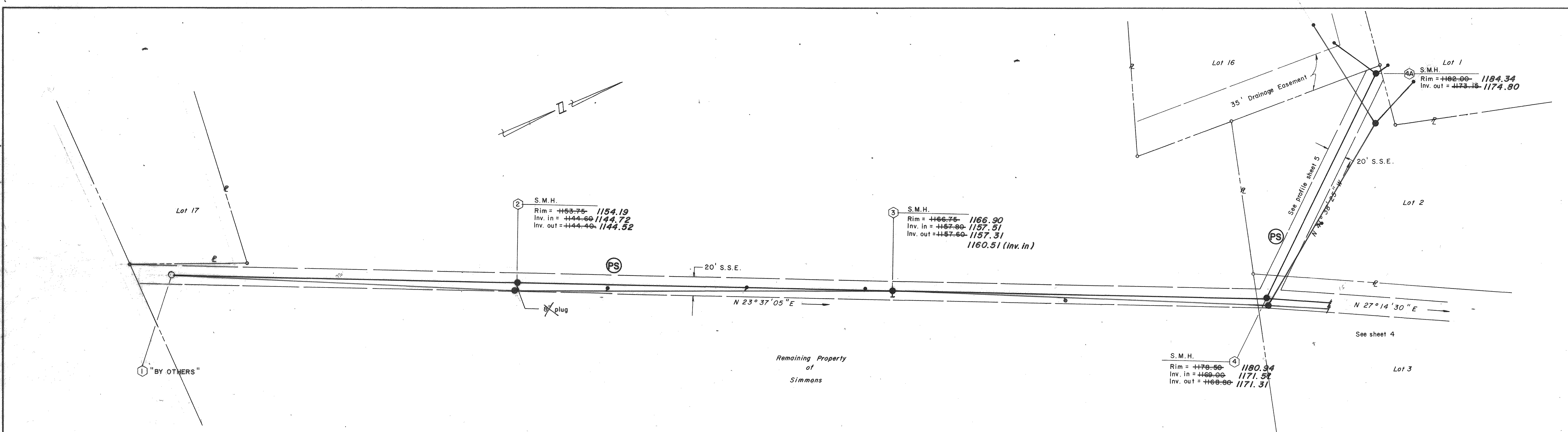
**SIMMONS**  
**INDUSTRIAL PARK**

SHEET NO. 2  
 OF 7



| PLAN               | DATE |
|--------------------|------|
| SURVEYED           |      |
| NOTE BOOK          |      |
| RT. OF WAY CHECKED |      |
| NO.                |      |

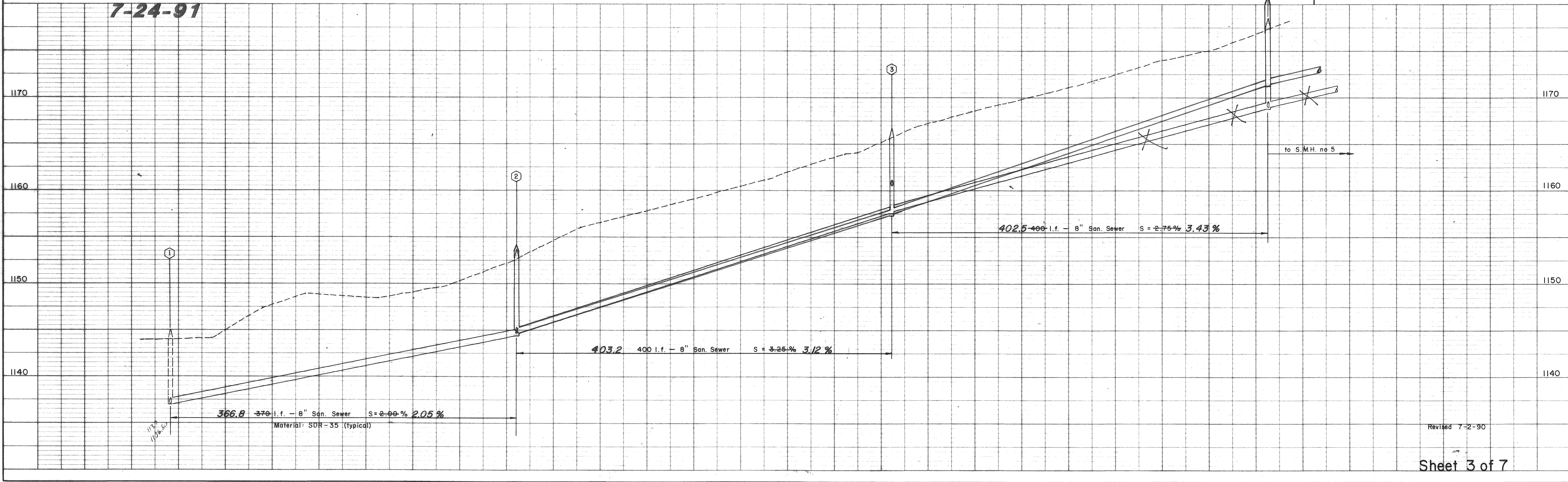
| PROFILE            | DATE |
|--------------------|------|
| SURVEYED           |      |
| NOTE BOOK          |      |
| RT. OF WAY CHECKED |      |
| NO.                |      |



**"AS-BUILTS"**  
**7-24-91**

SCALE  
Horiz. 1" = 50'  
Vert. 1" = 5'

**SIMMONS**  
**INDUSTRIAL PARK**

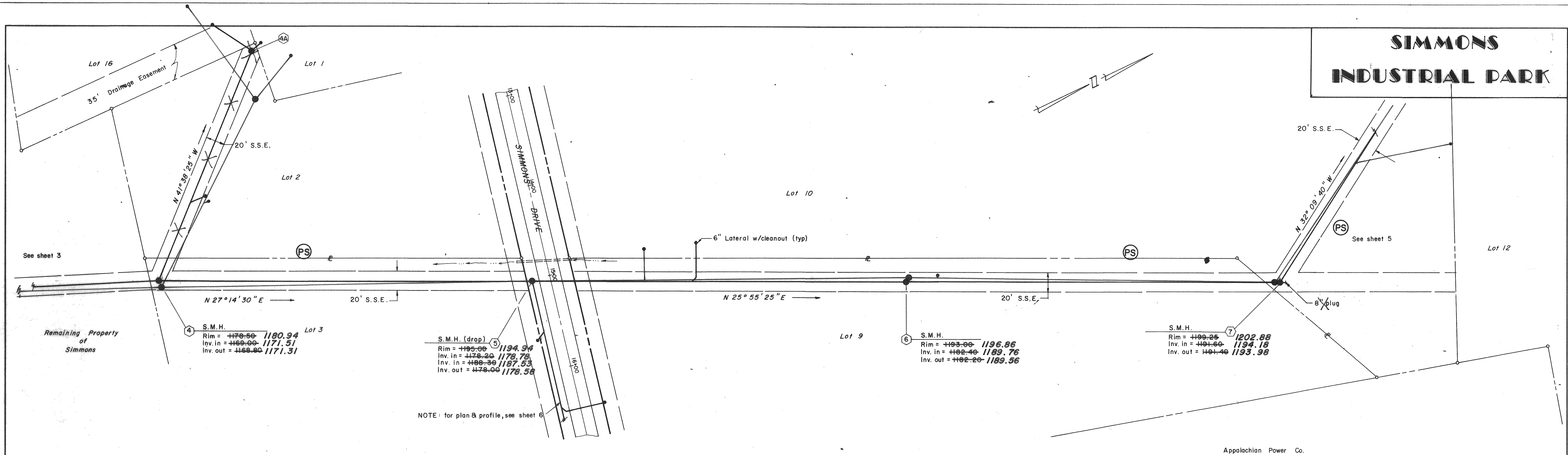


Revised 7-2-90



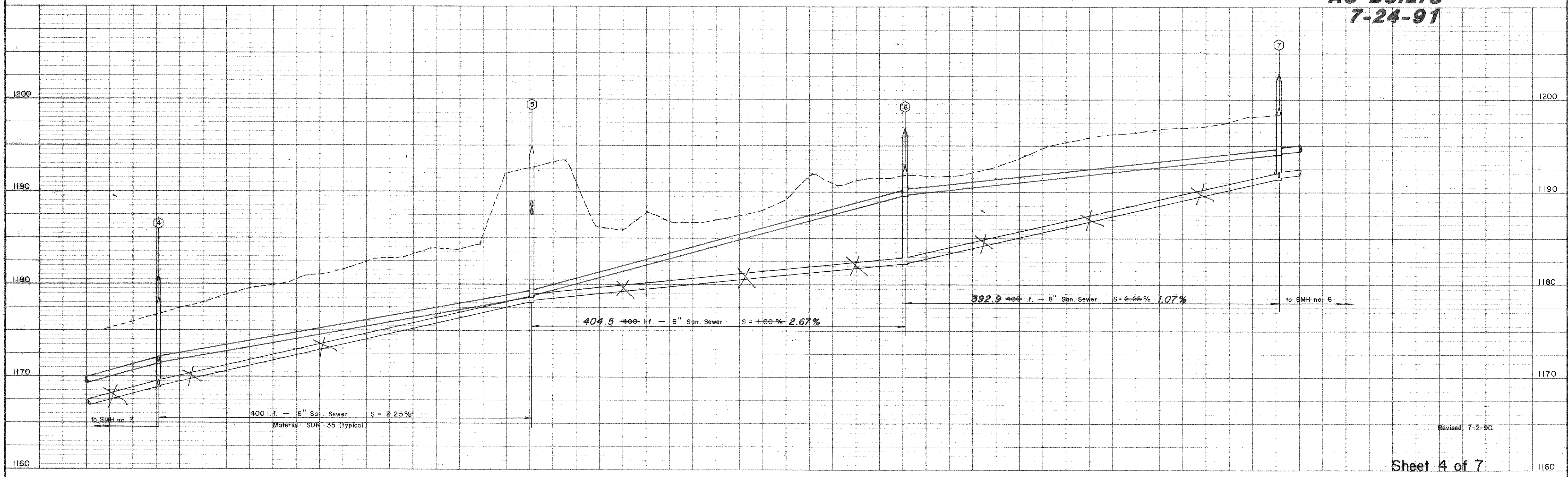
| PLAN       | DATE | BY |
|------------|------|----|
| SURVEYED   |      |    |
| NOTED      |      |    |
| ALIGNED    |      |    |
| CHECKED    |      |    |
| RT. OF WAY |      |    |
| CHECKED    |      |    |
| NO.        |      |    |

| PROFILE     | DATE | BY |
|-------------|------|----|
| SURVEYED    |      |    |
| NOTED       |      |    |
| GRADES      |      |    |
| CHECKED     |      |    |
| B. M. NOTED |      |    |
| STRUCTURE   |      |    |
| NOTATIONS   |      |    |
| CHECKED     |      |    |
| NO.         |      |    |



SCALE  
 Horiz. 1" = 50'  
 Vert. 1" = 5'

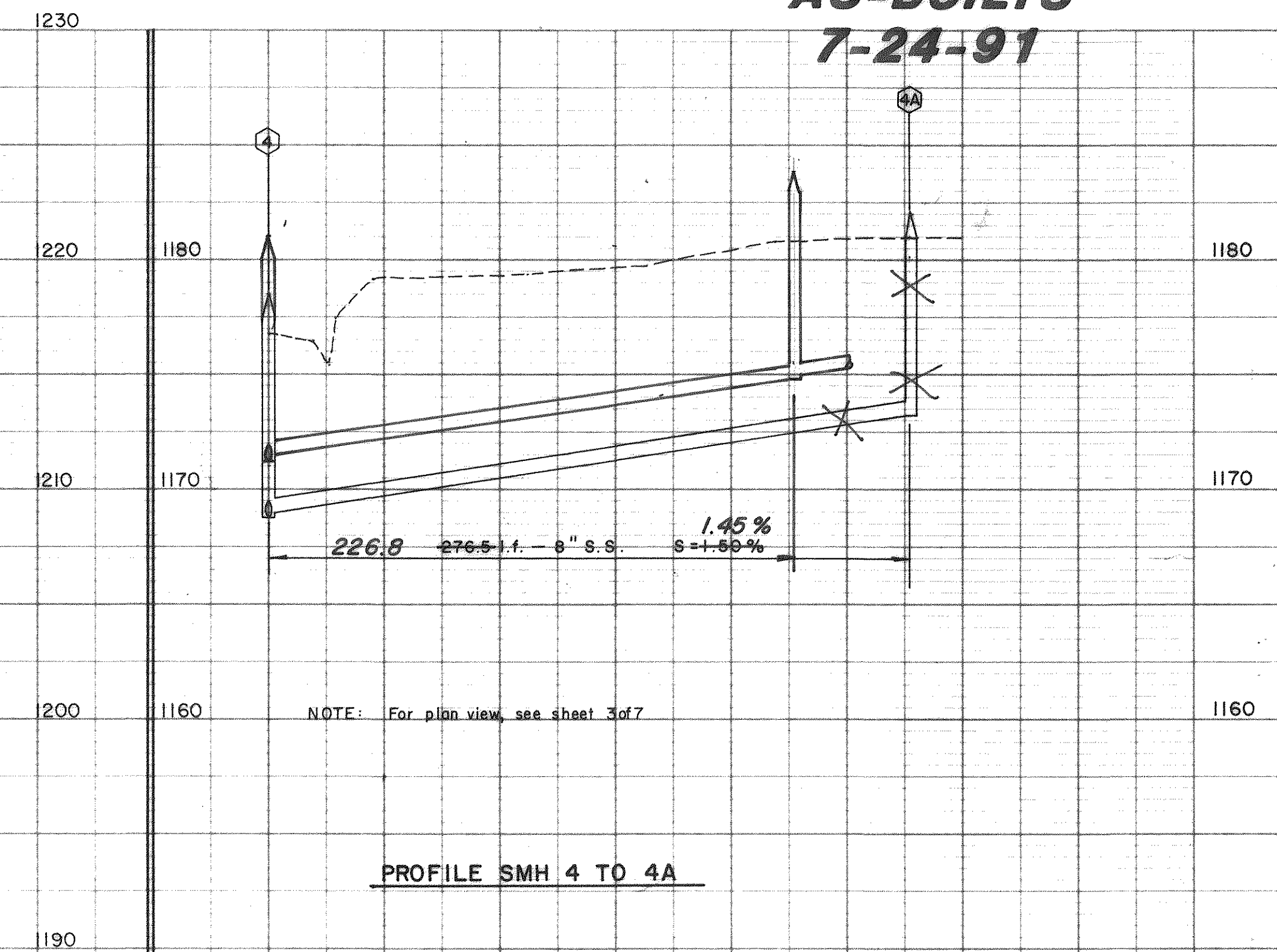
"AS-BUILTS"  
 7-24-91



Revised 7-2-90



|   |                          |          |            |
|---|--------------------------|----------|------------|
| <b>PLAN</b><br><br>NOTE BOOK<br><br>NO. _____ | SURVEYED _____           | BY _____ | DATE _____ |
|   | PLOTTED _____            |          |            |
|   | ALIGNMENT CHECKED _____  |          |            |
|   | RT. OF WAY CHECKED _____ |          |            |



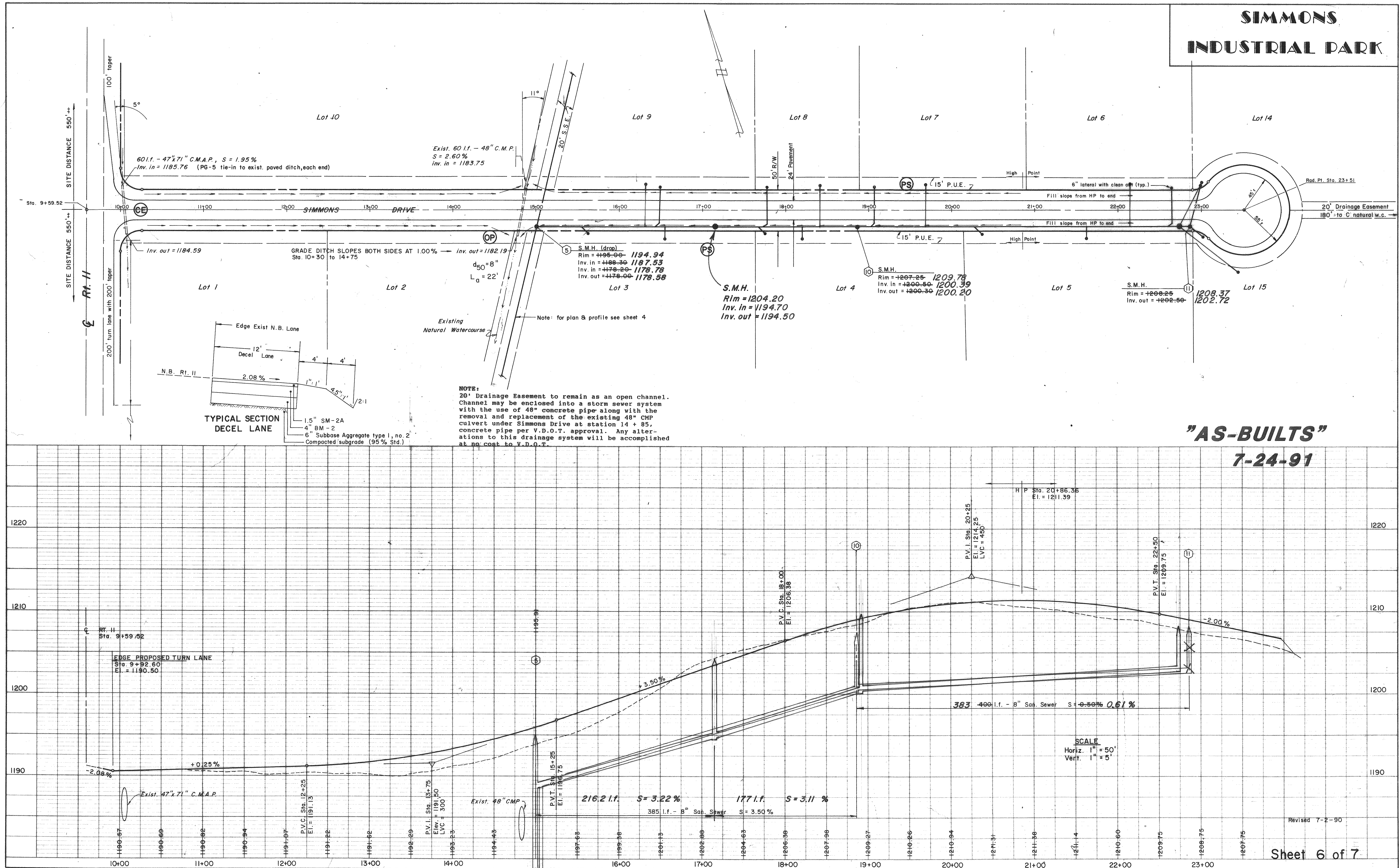
PROFILE SMH 4 TO 4A

Sheet 5 of 7



| PLAN      | DATE |
|-----------|------|
| SURVEYED  |      |
| PLOTTED   |      |
| CHECKED   |      |
| NOTE BOOK |      |
| NO.       |      |

| PROFILE   | DATE |
|-----------|------|
| SURVEYED  |      |
| PLOTTED   |      |
| CHECKED   |      |
| NOTE BOOK |      |
| NO.       |      |



# SIMMONS INDUSTRIAL PARK

"AS-BUILTS"  
7-24-91



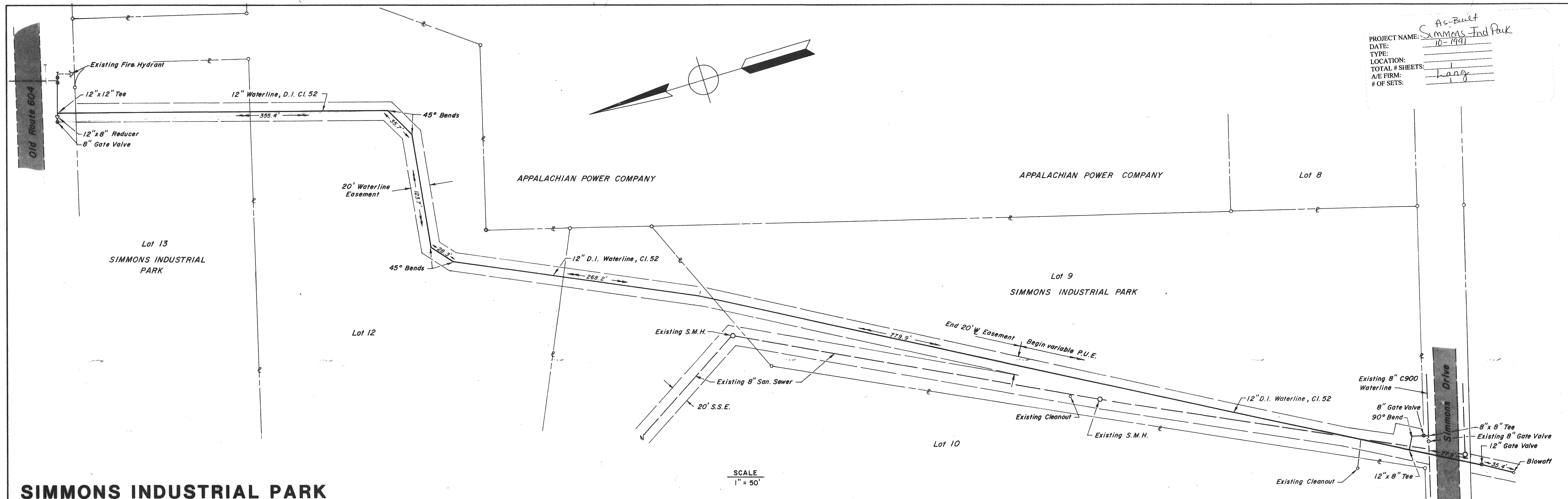
- "AS-BUILTS"**  
**7-24-91**



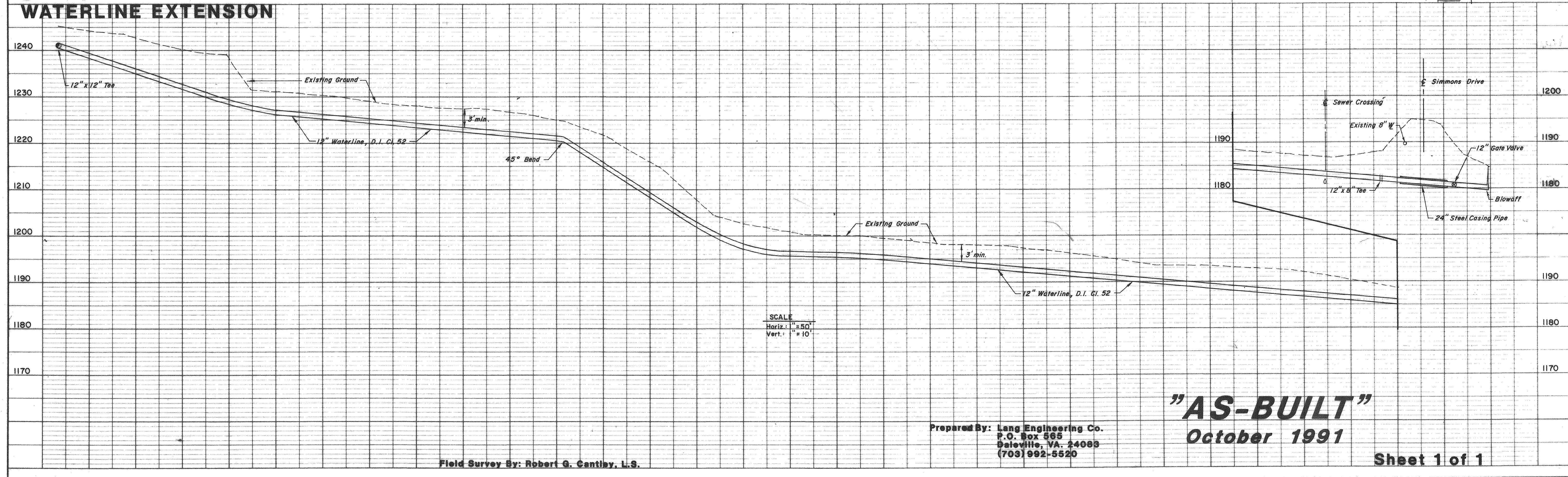
| PLAN               | DATE | BY | NO. |
|--------------------|------|----|-----|
| SURVEYED           |      |    |     |
| PLOTTED            |      |    |     |
| NOTE BOOK          |      |    |     |
| ALIGNMENT CHECKED  |      |    |     |
| RT. OF WAY CHECKED |      |    |     |

| PROFILE         | DATE | BY | NO. |
|-----------------|------|----|-----|
| SURVEYED        |      |    |     |
| PLOTTED         |      |    |     |
| NOTE BOOK       |      |    |     |
| GRADES CHECKED  |      |    |     |
| S. M. NOTED     |      |    |     |
| ENCLOSURE NOTED |      |    |     |

PROJECT NAME: As-Built Simmons Ind Park  
DATE: 10-1991  
TYPE:   
LOCATION:   
TOTAL # SHEETS:   
A/E FIRM: Lang  
# OF SETS:



## SIMMONS INDUSTRIAL PARK WATERLINE EXTENSION



Field Survey By: Robert G. Cantlay, L.S.

Prepared By: Lang Engineering Co.  
P.O. Box 565  
Oaleville, VA. 24083  
(703) 992-5520

**"AS-BUILT"**  
**October 1991**

Sheet 1 of 1