



SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, CFM
Surveyor of Hamilton County
Phone (317) 776-8495
Fax (317) 776-9628

Suite 188
One Hamilton County Square
Noblesville, Indiana 46060-2230

November 15, 2007

To: Hamilton County Drainage Board

Re: W. R. Fertig Drain : 122nd Street Road Improvements

Attached are petition, plans and other information for the 122nd Street Road Improvement project petitioned by the City of Carmel. An inspection of the drainage facilities for this project has been made and the facilities were found to be complete and acceptable.

This report will serve as an initial and final report for this construction. This road project began approximately 400 feet West of Hancock Street and followed 122nd Street to its intersection with Carmel Dr. During this construction of this project affected the W. R. Fertig Drain. The changes are as follows:

WR Fertig Drain #176

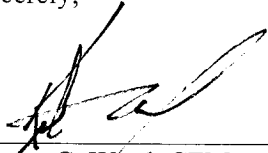
Carmel Science and Technology Park Arm:

The project replaced existing Structures 555 and 554 with a manhole. A new manhole was placed between existing Structures 553 and 554, noted on the plans as Structure 37. A new manhole (Structure 40A) was placed 58 feet east of existing Structure 553 and a manhole (Structure 43) was placed 196 feet east of new Structure 40A. A new round casting was placed on Structure 545. Structures 545 & 546 were converted from double to single curb inlets. A new manhole (Structure 57) was placed just 25 feet north of existing Structure 544. Also discovered was existing Carmel Science & Technology Park Drain between Structures 28, 35 and existing Structure 553. This added 460 feet of 42" RCP to this drain.

The project removed the following drain: existing stub – Structure 545, existing stub – Structure 551, Structure 551-549, Structure 549- 548, Structure 550 - 549, Structure 561 - 562, Structure 562 - 563 and Structure 563 – existing stub. As a result of this removal, there was a total of 228 feet removed from the Carmel Science and Technology Park Arm. Overall there was 232 feet of drain added to the Carmel Science and Technology Park Arm and to the Fertig west shed.

Upon approval of the reconstruction I recommend the Board approve the drain's construction as complete and acceptable.

Sincerely,

A handwritten signature in black ink, appearing to read 'K. Ward', written over a horizontal line.

Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/slm

HAMILTON COUNTY DRAINAGE BOARD
NOBLESVILLE, INDIANA

IN RE: R-27472)
Hamilton County, Indiana)

PETITION FOR RELOCATION AND RECONSTRUCTION

City of Carmel (hereinafter Petitioner"),

hereby petitions the Hamilton County Drainage Board for authority to relocate and improve a section of the W.R. Fertig Drain, and in support of said petition advises the Board that:

1. Petitioner owns real estate through which a portion of the W.R. Fertig Drain runs.
2. Petitioner plans to develop its real estate with roads, buildings, utilities, storm drains, sanitary sewers and other structures.
3. Petitioner's proposed development of its real estate will require relocation and reconstruction of a portion of the W.R. Fertig Drain, as specifically shown on engineering plans and specifications filed with the Hamilton County Surveyor.
4. The work necessary for the proposed relocation and reconstruction will be undertaken at the sole expense of the Petitioner and such work will result in substantial improvement to the W.R. Fertig Drain, without cost to other property owners on the watershed of the W.R. Fertig Drain.

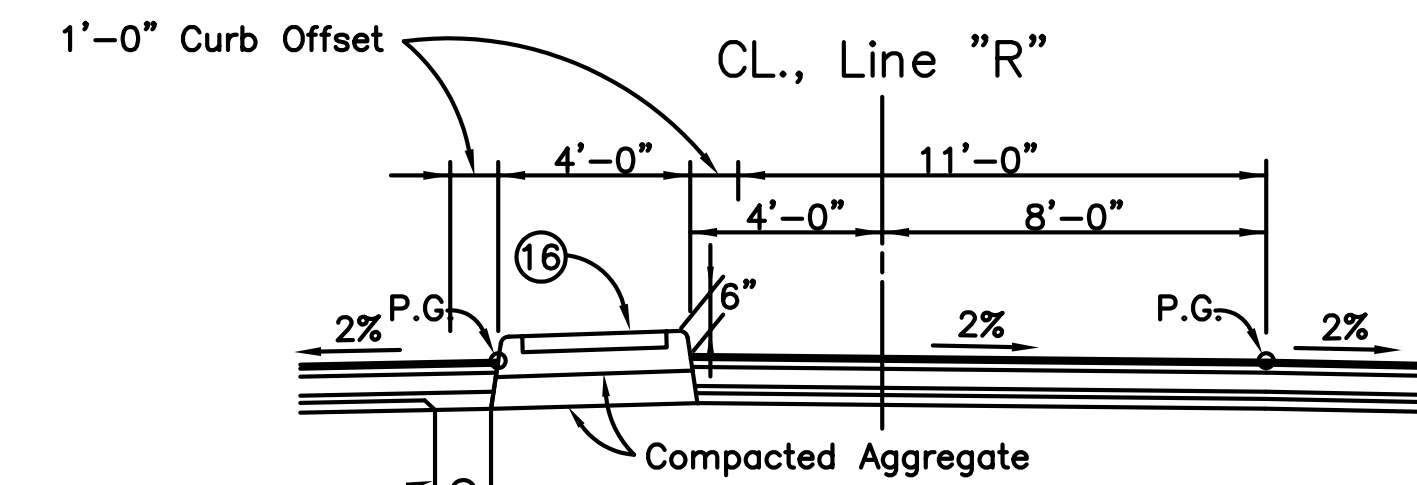
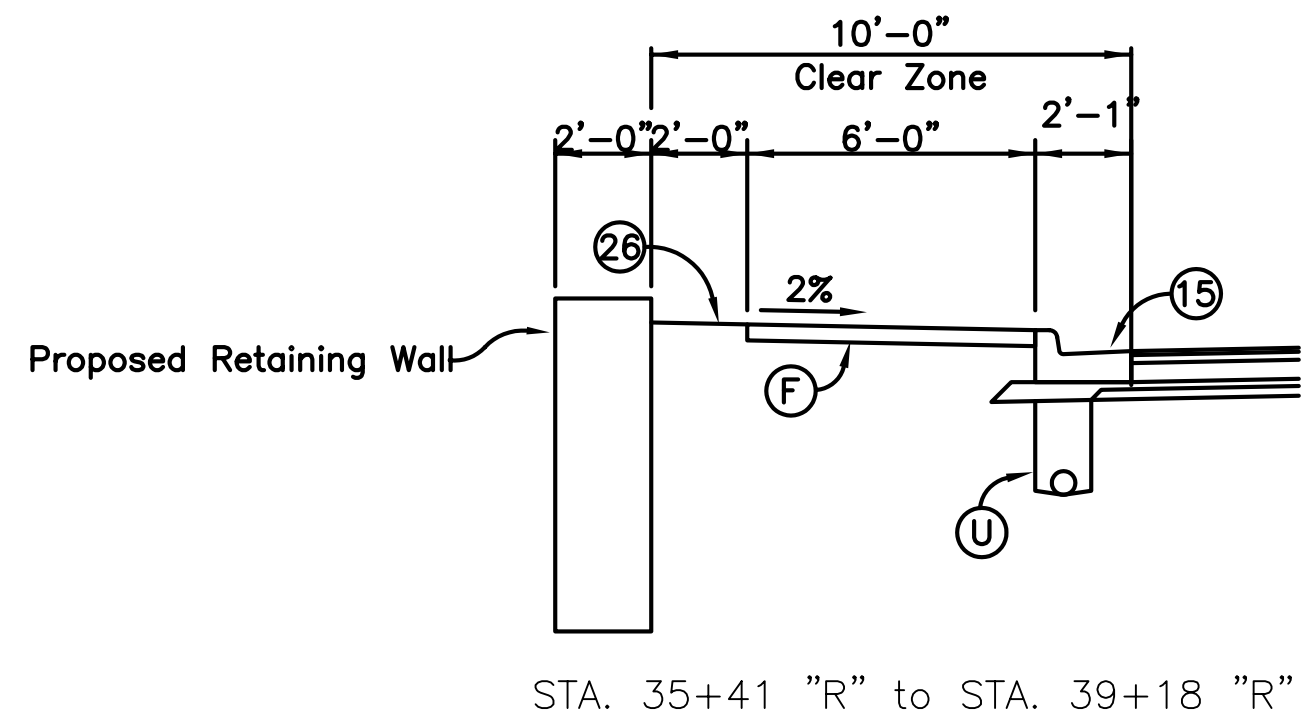
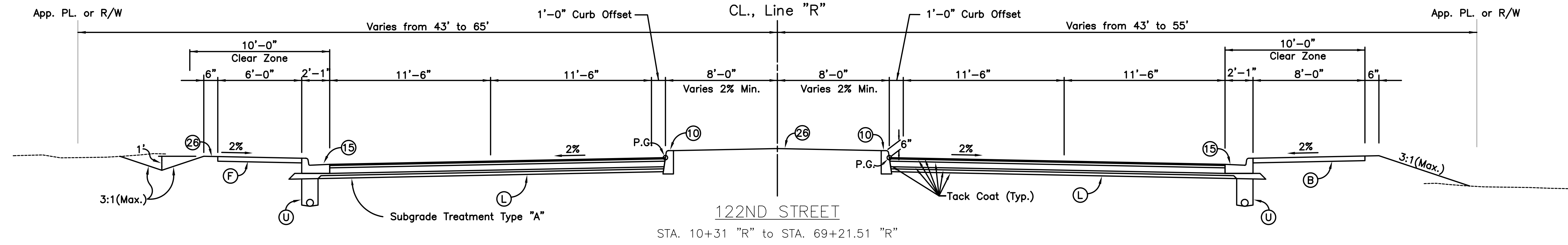
WHEREFORE, Petitioner requests that an Order issued from the Hamilton County Drainage Board authorizing relocation and reconstruction of the W.R. Fertig Drain, in conformance with applicable law and plans and specifications on file with the Hamilton County Surveyor.

Michael T. McBride
Signed

MICHAEL T. McBRIDE
Printed

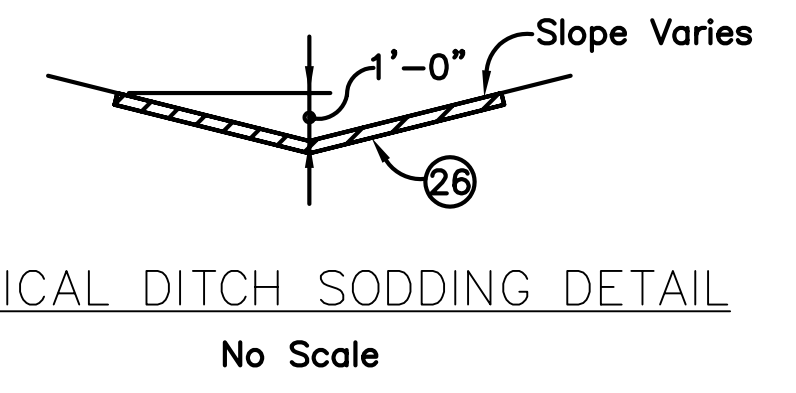
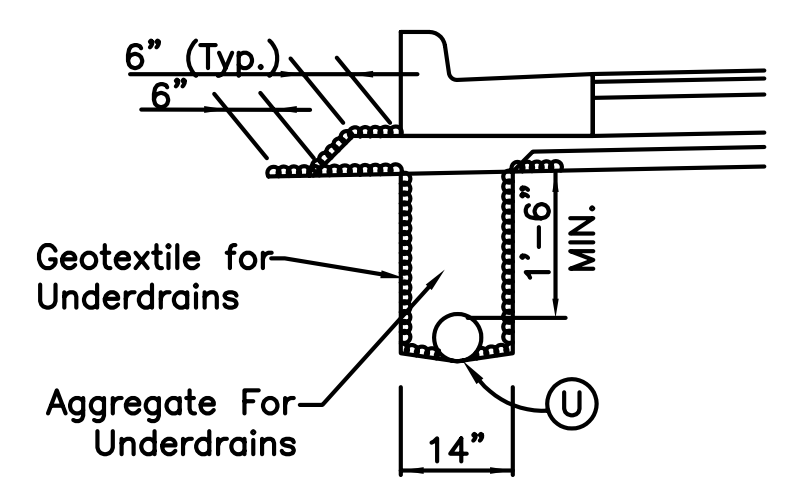
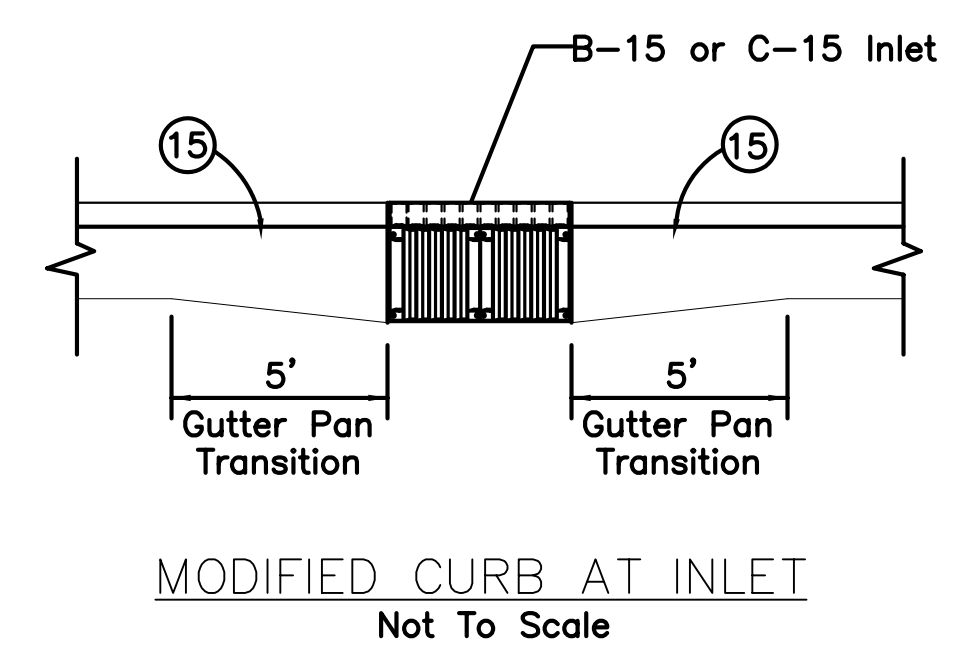
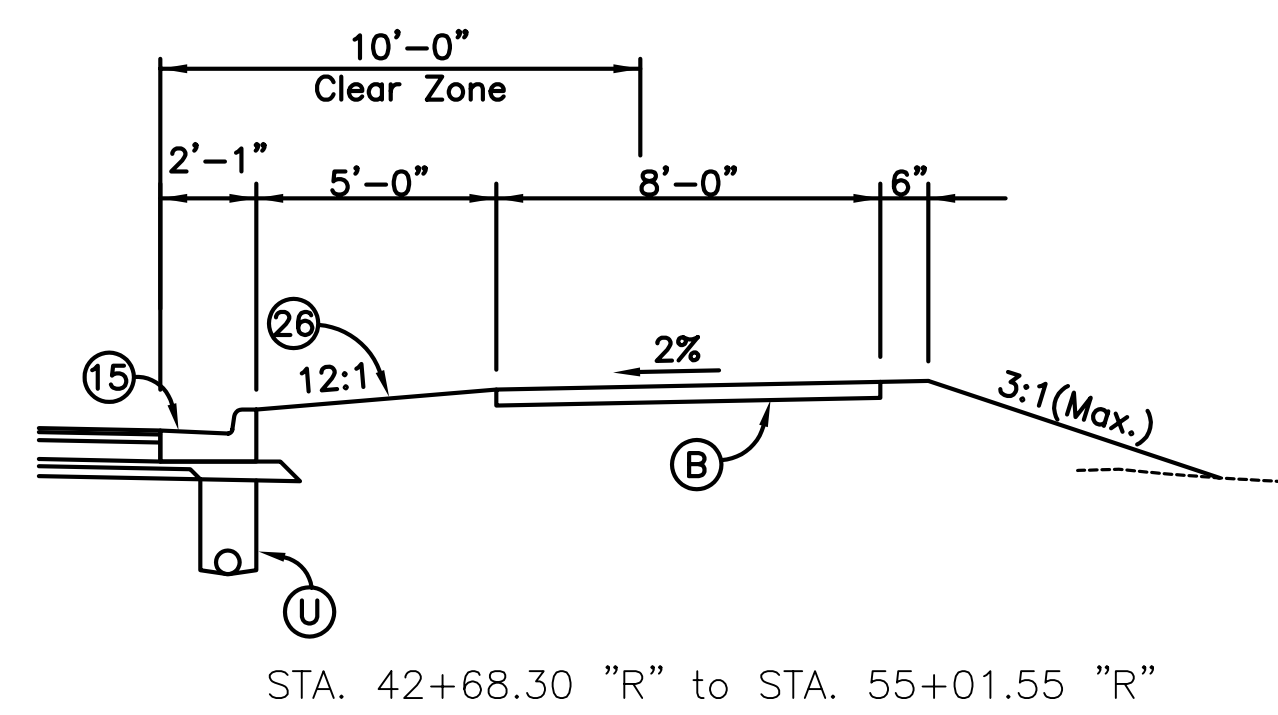
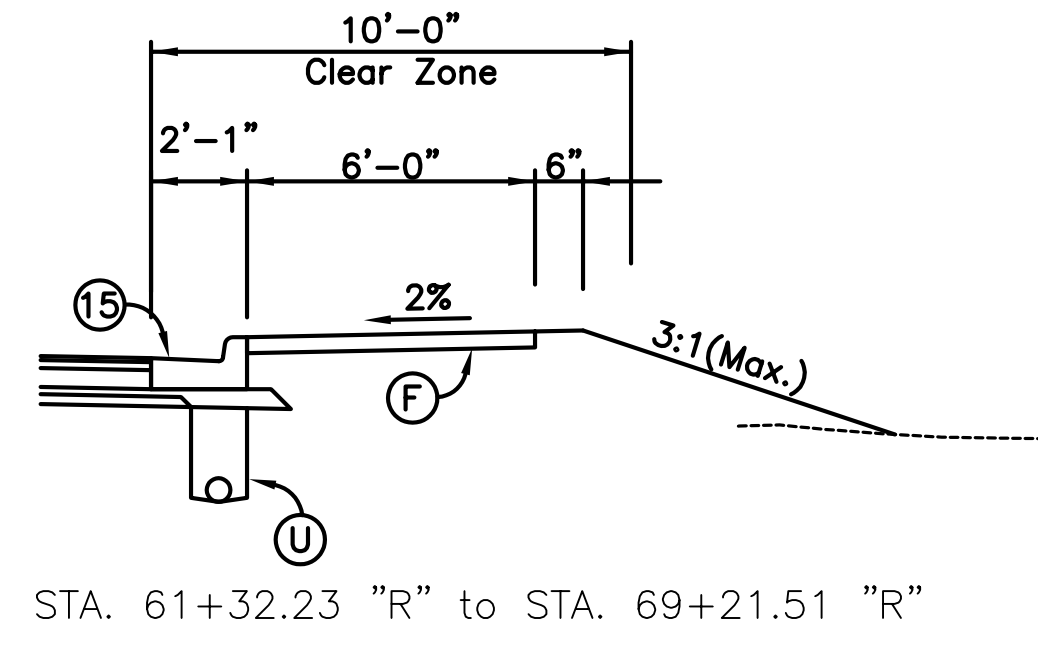
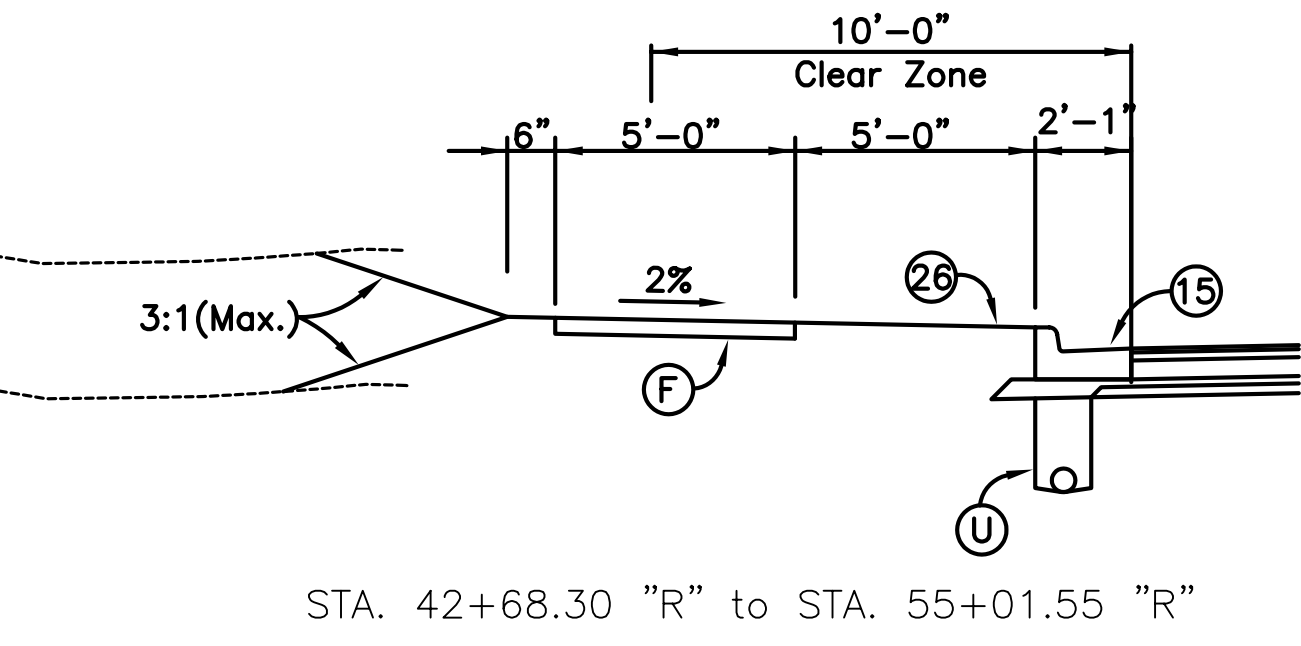
Adobe PDF Filable Form

MAR 13 2008



REVERSE AS NECESSARY

STA. 15+25 "R" to STA. 16+25 "R"	STA. 41+15 "R" to STA. 42+15 "R"
STA. 20+26 "R" to STA. 21+43 "R"	STA. 43+30 "R" to STA. 44+30 "R"
STA. 22+43 "R" to STA. 23+60 "R"	STA. 49+59 "R" to STA. 50+59 "R"
STA. 24+35 "R" to STA. 25+24 "R"	STA. 53+55 "R" to STA. 54+55 "R"
STA. 26+24 "R" to STA. 27+12 "R"	STA. 55+50 "R" to STA. 56+76 "R"
STA. 35+28 "R" to STA. 36+28 "R"	STA. 57+76 "R" to STA. 58+76 "R"
STA. 38+20 "R" to STA. 39+15 "R"	STA. 61+72 "R" to STA. 62+72 "R"



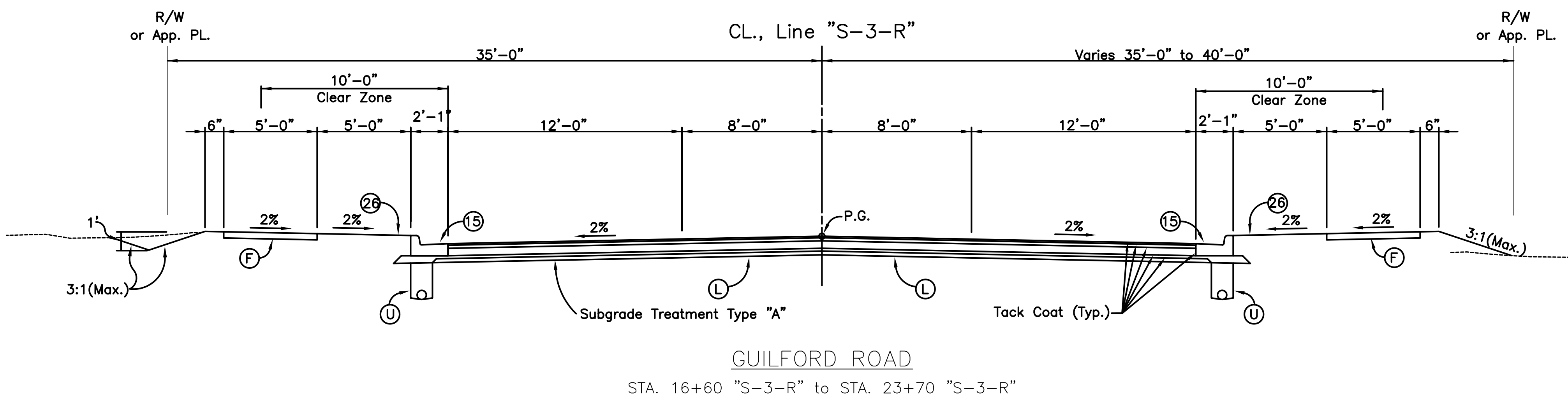
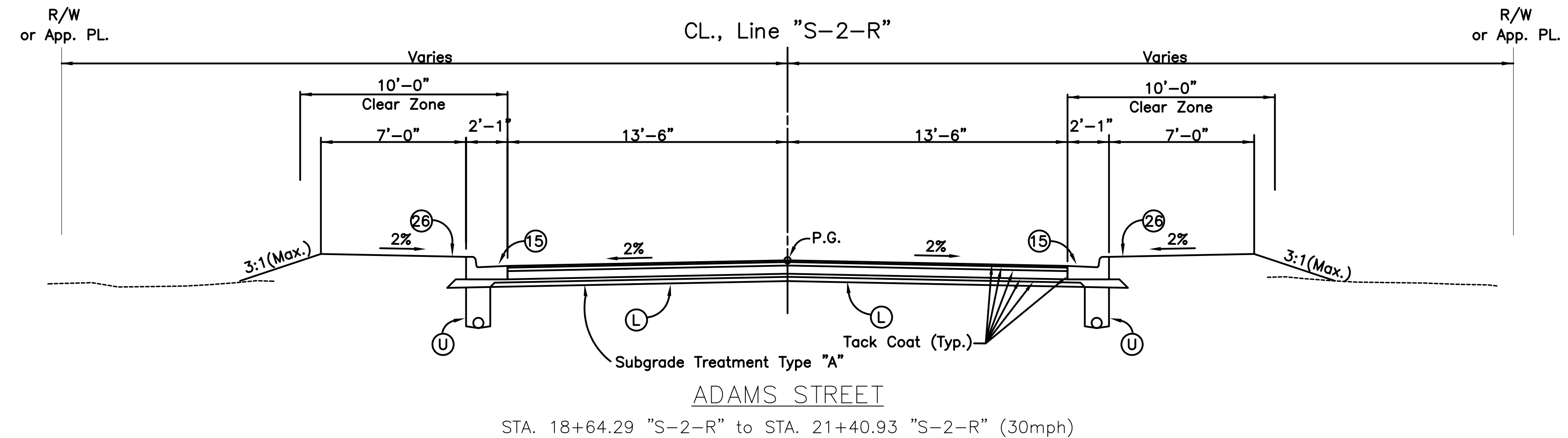
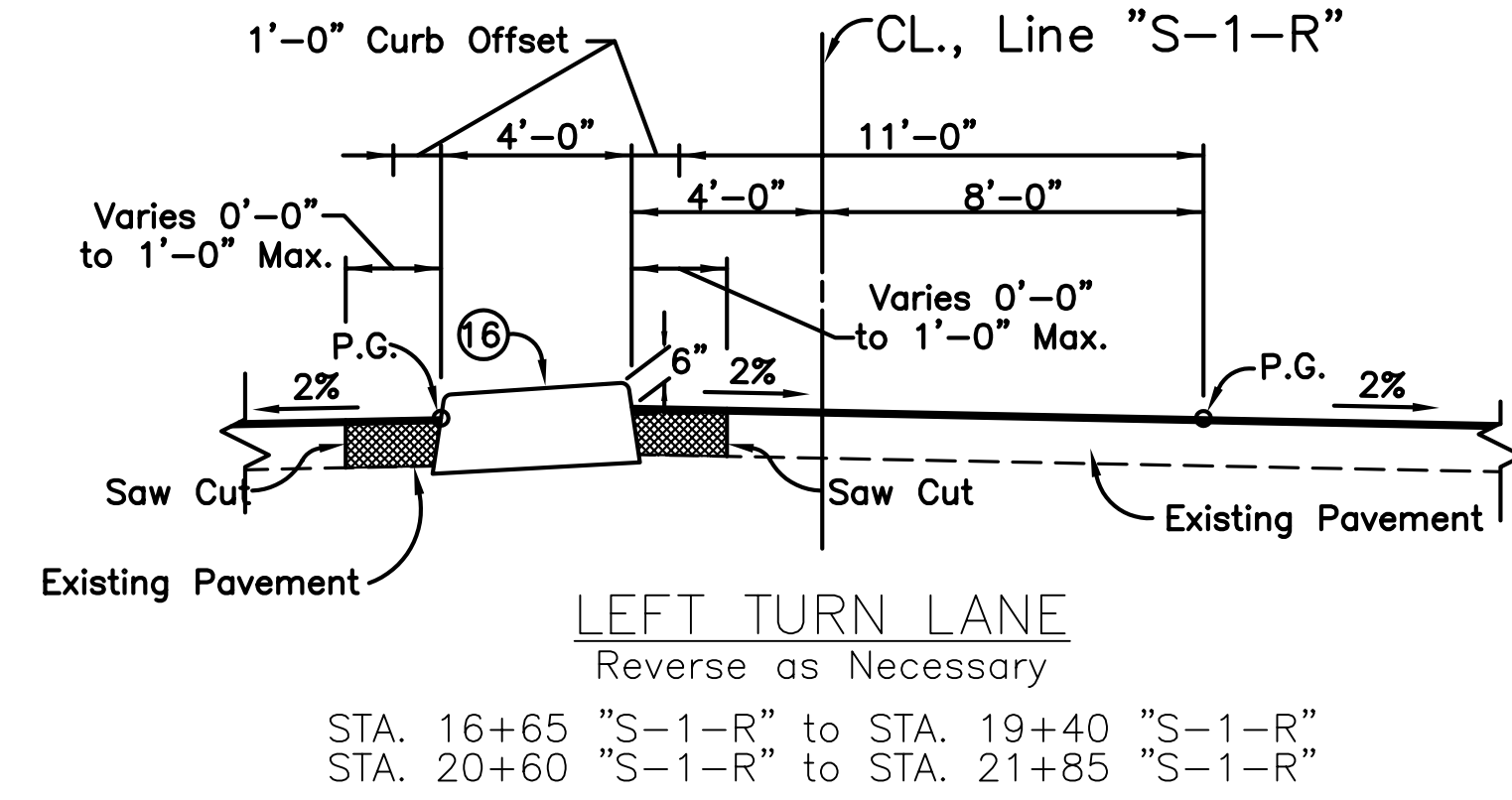
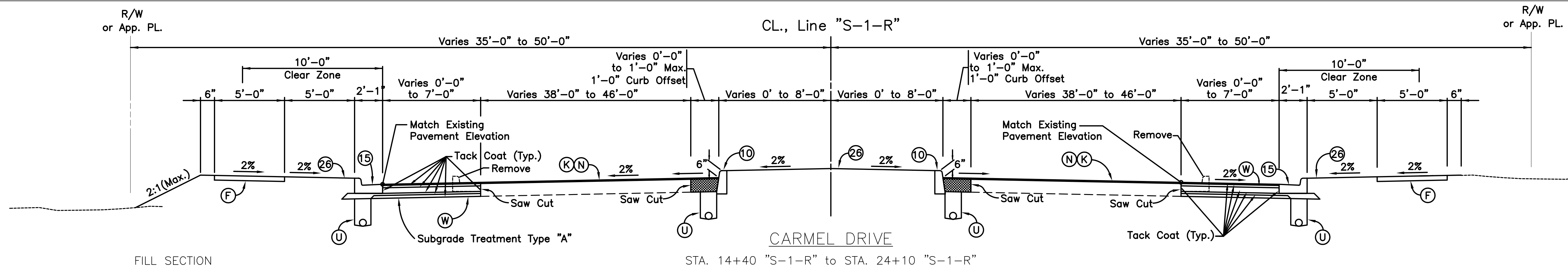
- ### LEGEND
- (B) BIKEPATH:
140#/SYD HMA, TYPE A, SURFACE ON
300#/SYD HMA, TYPE A, INTERMEDIATE ON
5" COMPACTED AGGREGATE, NO. 53, BASE
 - (C) 6" CEMENT CONCRETE PAVEMENT FOR DRIVEWAYS
6" COMPACTED AGGREGATE, NO. 53, BASE
 - (E) HMA, TYPE A, APPROACHES
140#/SYD HMA, TYPE A, SURFACE ON
300#/SYD HMA, TYPE A, INTERMEDIATE ON
860#/SYD HMA, TYPE A, BASE
 - (F) 4" CONCRETE SIDEWALK
 - (F) PATTERNED CONCRETE
 - (K) QC/QA-HMA RESURFACING
165#/SYD QC/QA - HMA, 2, 64, SURFACE, 9.5 mm
 - (L) FULL DEPTH QC/QA-HMA PAVEMENT:
165#/SYD QC/QA - HMA, 2, 64, SURFACE, 9.5 mm ON
275#/SYD QC/QA - HMA, 2, 64, INTERMEDIATE, 19 mm ON
440#/SYD QC/QA - HMA, 2, 64, BASE, 25 mm ON
300#/SYD QC/QA - HMA, 5, 76, INTERMEDIATE, C19.0 mm ON
330#/SYD QC/QA - HMA, 2, 64, BASE, 25 mm
 - (M) HMA, TYPE A, APPROACHES
140#/SYD HMA, TYPE A, SURFACE ON
300#/SYD HMA, TYPE A, INTERMEDIATE ON
8" COMPACTED AGGREGATE, NO. 53, BASE
 - (N) SURFACE MILLING 1 1/2"
 - (R) HANDICAP RAMP "AS DESIGNATED"
 - (W) WIDENING WITH QC/QA-HMA
275#/SYD QC/QA - HMA, 2, 64, INTERMEDIATE, 19 mm ON
440#/SYD QC/QA - HMA, 2, 64, BASE, 25 mm ON
300#/SYD QC/QA - HMA, 5, 76, INTERMEDIATE, C19.0 mm ON
330#/SYD QC/QA - HMA, 2, 64, BASE, 25 mm
 - (U) UNDERDRAIN
 - (10) CONCRETE CURB
 - (15) MODIFIED COMBINED CONCRETE CURB & GUTTER
 - (16) MODIFIED CONCRETE CENTER CURB (SEE SHEET NO. 4 FOR DETAILS)
 - (26) SODDING (NURSERY)
 - CONDUIT, 4", PVC
 - HANDHOLE

* Cost to be included in modified concrete curb, and gutter.

INDIANA DEPARTMENT OF TRANSPORTATION TYPICAL CROSS SECTIONS

SCALE: 1/4"=1'-0"

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
STP-9929()	"R"	2	19	



For Legend See Sheet No. 2

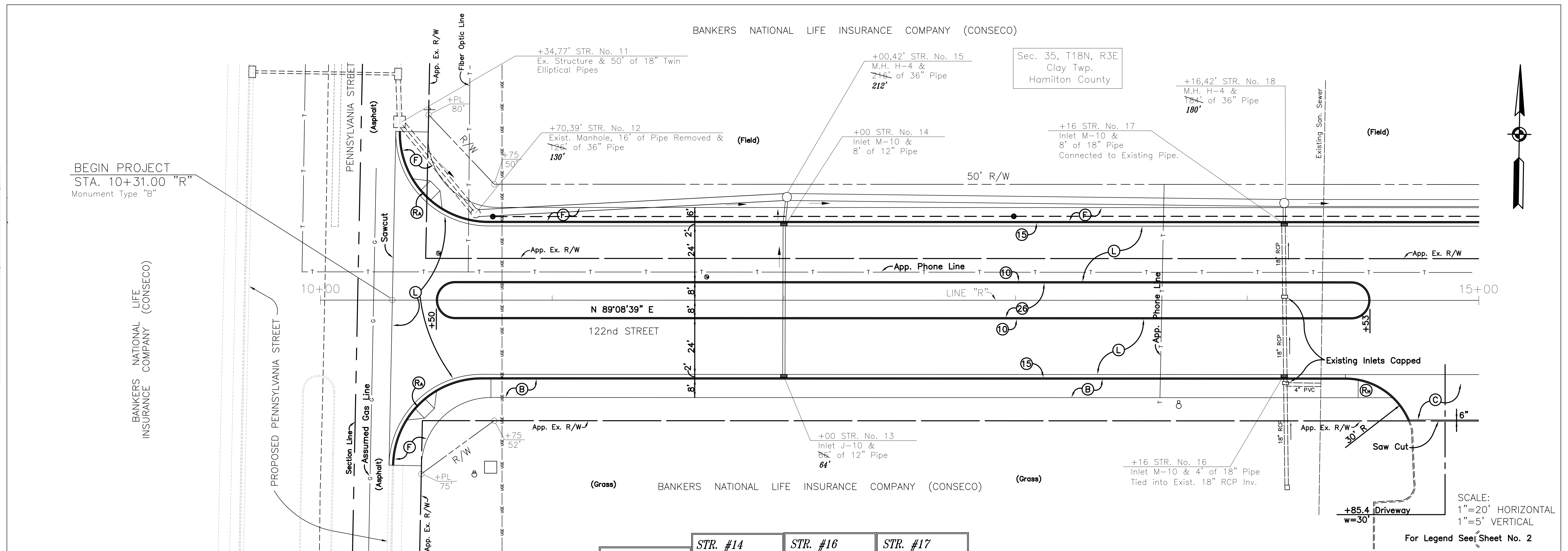
INDIANA DEPARTMENT OF TRANSPORTATION TYPICAL CROSS SECTIONS

SCALE: 1/4"=1'-0"

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
STP-9929(C)	"R"	3	19	

DATE	
BY	
PLAN	
NO.	
DATE	
BY	
PLAN	
NO.	
DATE	
BY	
PLAN	
NO.	

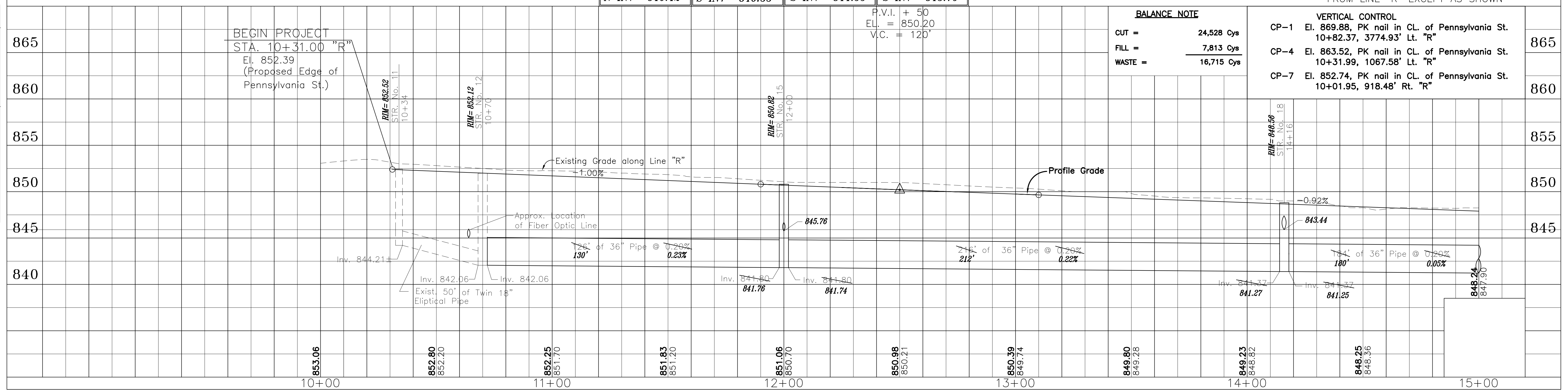
DATE	
BY	
PROFILE	
NO.	
DATE	
BY	
PROFILE	
NO.	
DATE	
BY	
PROFILE	
NO.	



STR. #13 RIM= 850.07 N INV= 846.42 S INV= 846.42	STR. #14 RIM= 850.12 N INV= 846.27 S INV= 846.33	STR. #16 RIM= 848.09 N INV= 844.48 S INV= 844.55	STR. #17 RIM= 848.07 N INV= 843.72 S INV= 843.79
--	--	--	--

SCALE:
1"=20' HORIZONTAL
1"=5' VERTICAL
For Legend See Sheet No. 2

All R/W ON THIS SHEET TO BE AS SHOWN
All R/W ON THIS SHEET DESCRIBED
FROM LINE "R" EXCEPT AS SHOWN



BALANCE NOTE

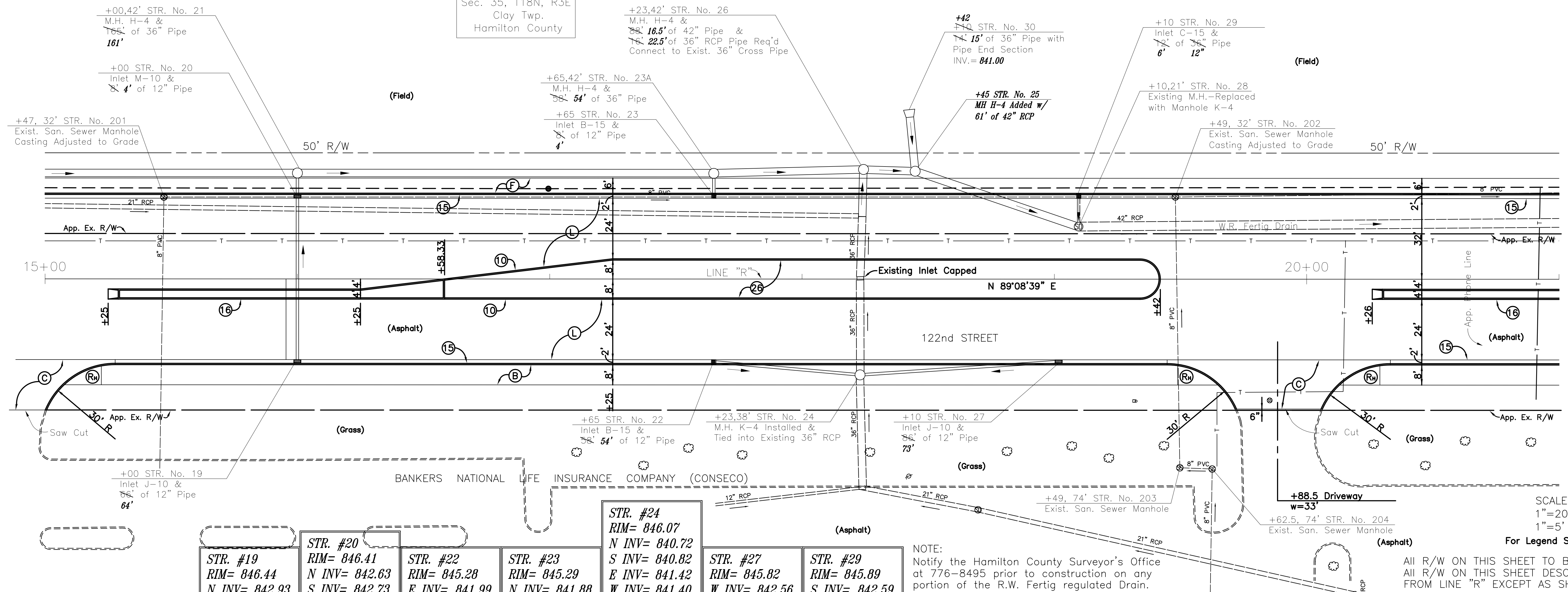
CUT =	24,528 Cys
FILL =	7,813 Cys
WASTE =	16,715 Cys

VERTICAL CONTROL

CP-1	El. 869.88, PK nail in CL. of Pennsylvania St. 10+82.37, 3774.93' Lt. "R"	865
CP-4	El. 863.52, PK nail in CL. of Pennsylvania St. 10+31.99, 1067.58' Lt. "R"	860
CP-7	El. 852.74, PK nail in CL. of Pennsylvania St. 10+01.95, 918.48' Rt. "R"	860

BANKERS NATIONAL LIFE INSURANCE COMPANY (CONSECO)

Sec. 35, T18N, R3E
Clay Twp.
Hamilton County



STR. #19 RIM= 846.44 N INV= 842.93	STR. #20 RIM= 846.41 N INV= 842.63 S INV= 842.73	STR. #22 RIM= 845.28 E INV= 841.99	STR. #23 RIM= 845.29 N INV= 841.88	STR. #24 RIM= 846.07 N INV= 840.72 S INV= 840.82 E INV= 841.42 W INV= 841.40	STR. #27 RIM= 845.82 W INV= 842.56	STR. #29 RIM= 845.89 S INV= 842.59
---	--	---	---	--	---	---

NOTE:
Notify the Hamilton County Surveyor's Office at 776-8495 prior to construction on any portion of the R.W. Fertig regulated Drain.

SCALE:
1"=20' HORIZONTAL
1"=5' VERTICAL
For Legend See Sheet No. 2
All R/W ON THIS SHEET TO BE AS SHOWN
All R/W ON THIS SHEET DESCRIBED FROM LINE "R" EXCEPT AS SHOWN

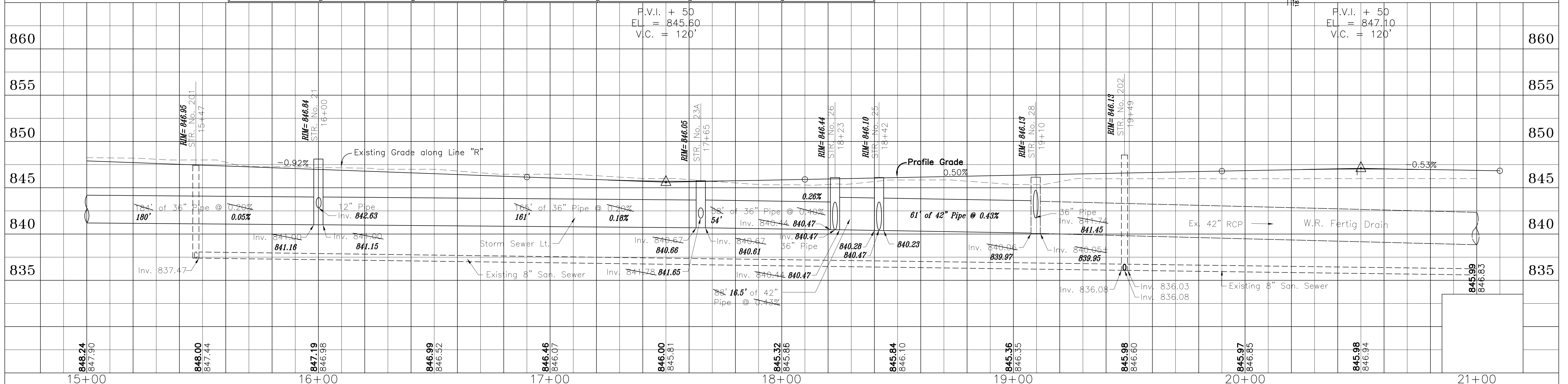


PLATE 3-PLAN-PROFILE B. R. R. STANDARD
1975

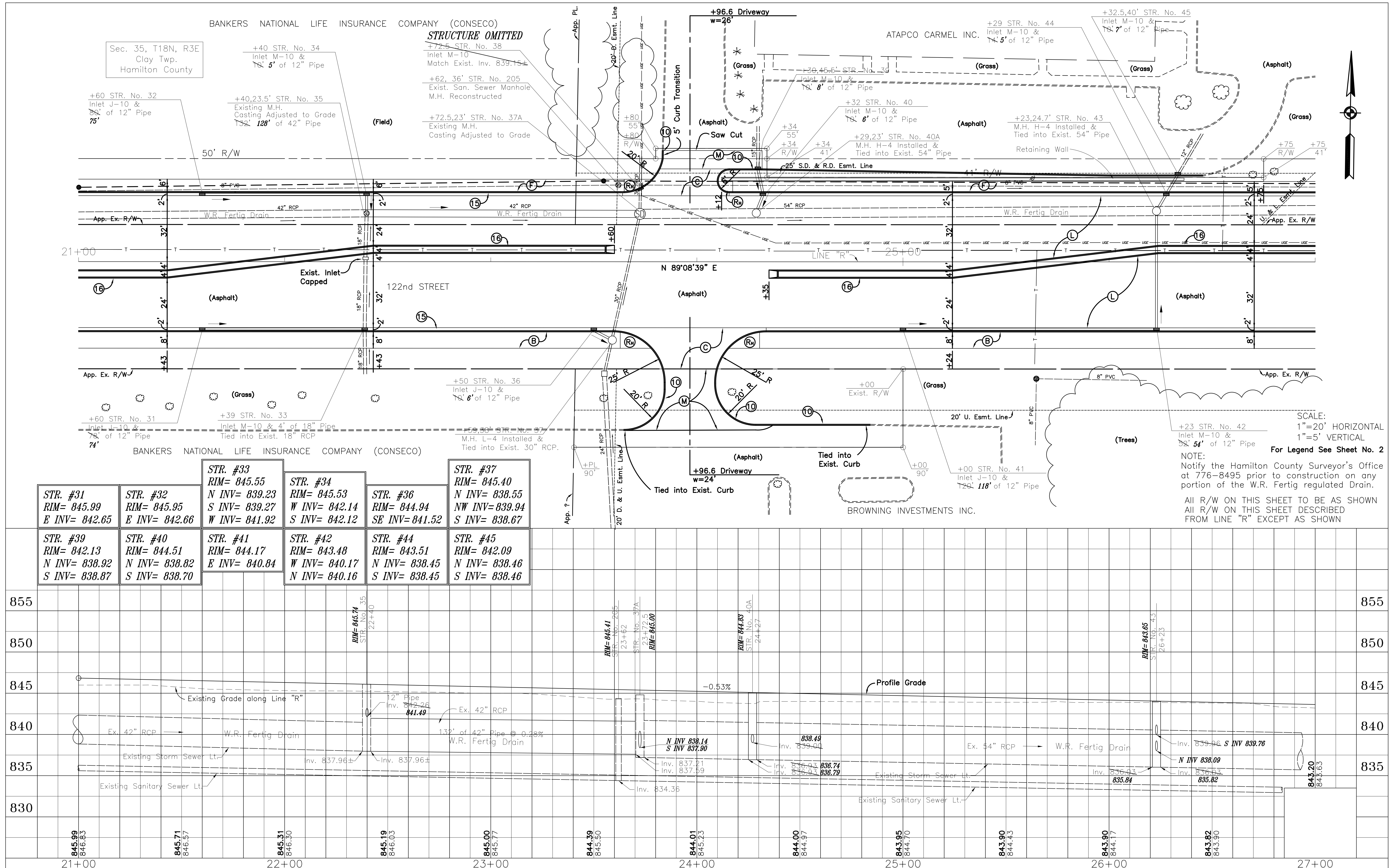
PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
STP-9929()	"R"	5	19	

DATE	BY	CHKD.
PLAN	DESIGNED	CHECKED
	PLOTTED	REVISIONS
	NOTE BOOK	ALIGNMENT CHECKED
		RT. OF WAY CHECKED
		No.

DATE	BY	CHKD.
PROFILE	DESIGNED	CHECKED
	PLOTTED	REVISIONS
	NOTE BOOK	GRADES CHECKED
		MAN. NOTES
		STRUCTURE NOTATIONS CHECKED
		No.

DATE	
BY	
REVISIONS	
PLAN	DESIGNED
	PLOTTED
	ALIGNED CHECKED
	BY: VV
	NO.:
	DATE:
	BY:
	REVISIONS:
	PLAN:
	DESIGNED:
	PLOTTED:
	ALIGNED CHECKED:
	BY: VV
	NO.:
	DATE:
	BY:
	REVISIONS:

DATE	
BY	
REVISIONS	
PROFILE	DESIGNED
	PLOTTED
	GRADES CHECKED
	BY: VV
	NO.:
	DATE:
	BY:
	REVISIONS:



STR. #31 RIM= 845.99 E INV= 842.65	STR. #32 RIM= 845.95 E INV= 842.66	STR. #33 RIM= 845.55 N INV= 839.23 S INV= 839.27 W INV= 841.92	STR. #34 RIM= 845.53 W INV= 842.14 S INV= 842.12	STR. #36 RIM= 844.94 SE INV= 841.52	STR. #37 RIM= 845.40 N INV= 838.55 NW INV= 839.94 S INV= 838.67
STR. #39 RIM= 842.13 N INV= 838.92 S INV= 838.87	STR. #40 RIM= 844.51 N INV= 838.82 S INV= 838.70	STR. #41 RIM= 844.17 E INV= 840.84	STR. #42 RIM= 843.48 W INV= 840.17 N INV= 840.16	STR. #44 RIM= 843.51 N INV= 838.45 S INV= 838.45	STR. #45 RIM= 842.09 N INV= 838.46 S INV= 838.46

SCALE:
1"=20' HORIZONTAL
1"=5' VERTICAL

For Legend See Sheet No. 2

NOTE:
Notify the Hamilton County Surveyor's Office at 776-8495 prior to construction on any portion of the W.R. Fertig regulated Drain.

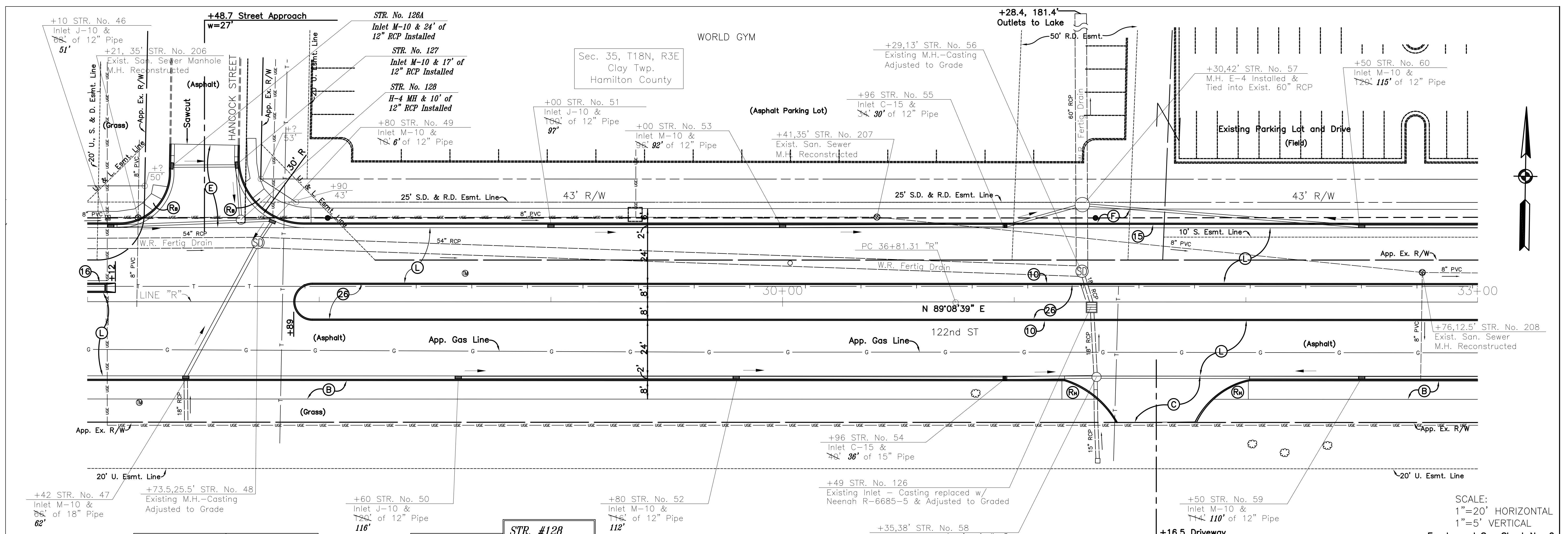
All R/W ON THIS SHEET TO BE AS SHOWN
All R/W ON THIS SHEET DESCRIBED FROM LINE "R" EXCEPT AS SHOWN

PLATE 3-PLAN-PROFILE B. R. R. STANDARD
1975

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
STP-9929()	"R"	6	19	

DATE	
BY	
REVISIONS	
1	REVISED
2	REVISED
3	REVISED
4	REVISED
5	REVISED
6	REVISED
7	REVISED
8	REVISED
9	REVISED
10	REVISED
11	REVISED
12	REVISED
13	REVISED
14	REVISED
15	REVISED
16	REVISED
17	REVISED
18	REVISED
19	REVISED
20	REVISED
21	REVISED
22	REVISED
23	REVISED
24	REVISED
25	REVISED
26	REVISED
27	REVISED
28	REVISED
29	REVISED
30	REVISED
31	REVISED
32	REVISED
33	REVISED
34	REVISED
35	REVISED
36	REVISED
37	REVISED
38	REVISED
39	REVISED
40	REVISED
41	REVISED
42	REVISED
43	REVISED
44	REVISED
45	REVISED
46	REVISED
47	REVISED
48	REVISED
49	REVISED
50	REVISED
51	REVISED
52	REVISED
53	REVISED
54	REVISED
55	REVISED
56	REVISED
57	REVISED
58	REVISED
59	REVISED
60	REVISED
61	REVISED
62	REVISED
63	REVISED
64	REVISED
65	REVISED
66	REVISED
67	REVISED
68	REVISED
69	REVISED
70	REVISED
71	REVISED
72	REVISED
73	REVISED
74	REVISED
75	REVISED
76	REVISED
77	REVISED
78	REVISED
79	REVISED
80	REVISED
81	REVISED
82	REVISED
83	REVISED
84	REVISED
85	REVISED
86	REVISED
87	REVISED
88	REVISED
89	REVISED
90	REVISED
91	REVISED
92	REVISED
93	REVISED
94	REVISED
95	REVISED
96	REVISED
97	REVISED
98	REVISED
99	REVISED
100	REVISED

DATE	
BY	
REVISIONS	
1	REVISED
2	REVISED
3	REVISED
4	REVISED
5	REVISED
6	REVISED
7	REVISED
8	REVISED
9	REVISED
10	REVISED
11	REVISED
12	REVISED
13	REVISED
14	REVISED
15	REVISED
16	REVISED
17	REVISED
18	REVISED
19	REVISED
20	REVISED
21	REVISED
22	REVISED
23	REVISED
24	REVISED
25	REVISED
26	REVISED
27	REVISED
28	REVISED
29	REVISED
30	REVISED
31	REVISED
32	REVISED
33	REVISED
34	REVISED
35	REVISED
36	REVISED
37	REVISED
38	REVISED
39	REVISED
40	REVISED
41	REVISED
42	REVISED
43	REVISED
44	REVISED
45	REVISED
46	REVISED
47	REVISED
48	REVISED
49	REVISED
50	REVISED
51	REVISED
52	REVISED
53	REVISED
54	REVISED
55	REVISED
56	REVISED
57	REVISED
58	REVISED
59	REVISED
60	REVISED
61	REVISED
62	REVISED
63	REVISED
64	REVISED
65	REVISED
66	REVISED
67	REVISED
68	REVISED
69	REVISED
70	REVISED
71	REVISED
72	REVISED
73	REVISED
74	REVISED
75	REVISED
76	REVISED
77	REVISED
78	REVISED
79	REVISED
80	REVISED
81	REVISED
82	REVISED
83	REVISED
84	REVISED
85	REVISED
86	REVISED
87	REVISED
88	REVISED
89	REVISED
90	REVISED
91	REVISED
92	REVISED
93	REVISED
94	REVISED
95	REVISED
96	REVISED
97	REVISED
98	REVISED
99	REVISED
100	REVISED



STR. #46 RIM= 843.15 E INV= 839.67	STR. #47 RIM= 842.77 N INV= 838.49 S INV= 838.86	STR. #49 RIM= 842.60 W INV= 839.19 S INV= 839.10	STR. #126A RIM= 842.55 E INV= 839.87	STR. #127 RIM= 842.33 W INV= 839.27 S INV= 839.27	STR. #128 RIM= 842.75 N INV= 839.19 E INV= 839.19 W INV= 839.19	STR. #50 RIM= 842.29 E INV= 838.78	STR. #51 RIM= 842.01 E INV= 838.73	STR. #52 RIM= 841.62 W INV= 838.26 E INV= 838.21	STR. #53 RIM= 841.53 W INV= 838.05 E INV= 838.03	STR. #54 RIM= 841.10 W INV= 837.52 E INV= 837.41	STR. #55 RIM= 841.16 W INV= 837.51 E INV= 837.31	STR. #57 RIM= 842.22 N INV= 833.65 S INV= 833.82 E INV= 837.33 W INV= 836.98	STR. #58 RIM= 841.26 N INV= 836.27 S INV= 836.42 E INV= 836.77 W INV= 836.54	STR. #59 RIM= 841.85 E INV= 838.09 W INV= 838.08	STR. #60 RIM= 841.93 E INV= 838.45 W INV= 838.42	STR. #126 RIM= 842.15 N INV= 835.96 S INV= 836.24
--	---	---	--	--	---	--	--	---	---	---	---	---	---	---	---	--

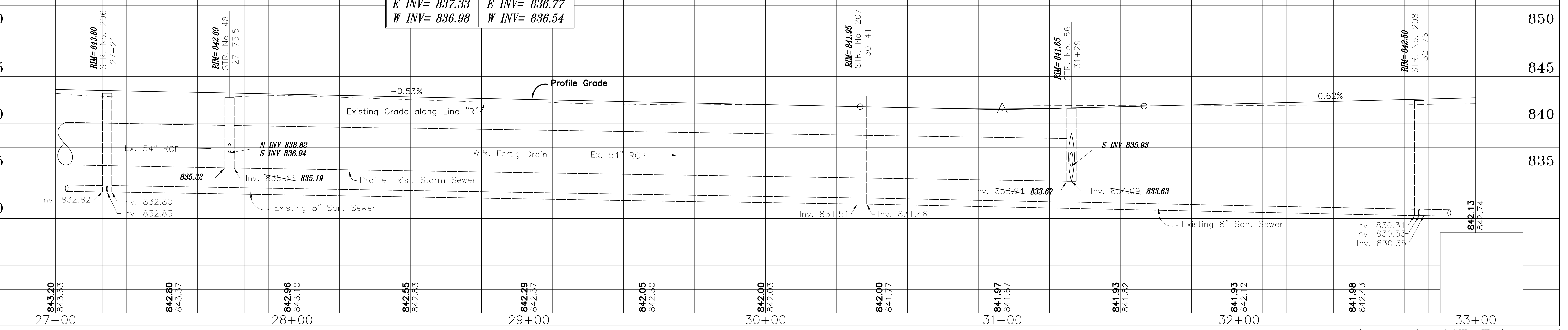


PLATE 3-PLAN-PROFILE B. R. R. STANDARD
1975

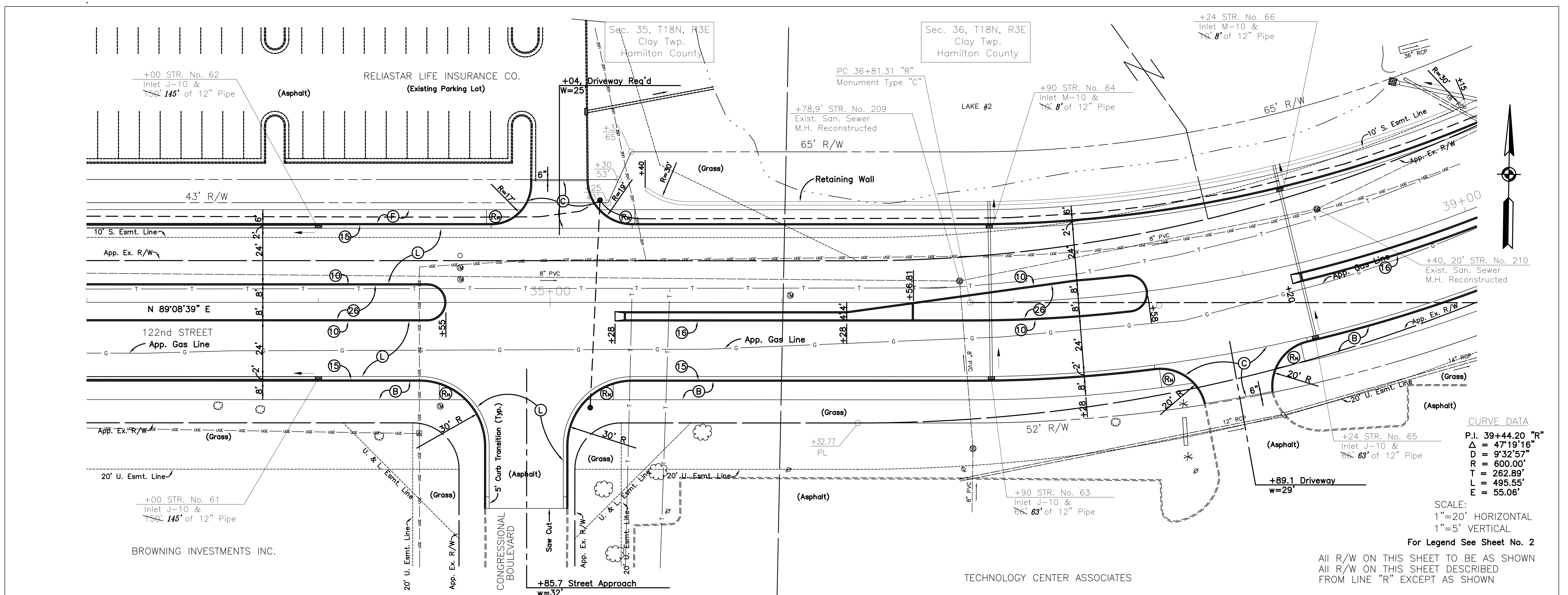
PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
STP-9929()	"R"	7	19	

SCALE:
1"=20' HORIZONTAL
1"=5' VERTICAL
For Legend See Sheet No. 2

NOTE:
Notify the Hamilton County Surveyor's Office at 776-8495 prior to construction on any portion of the W.R. Fertig regulated Drain.
All R/W ON THIS SHEET TO BE AS SHOWN
All R/W ON THIS SHEET DESCRIBED FROM LINE "R" EXCEPT AS SHOWN

DATE	
BY	
PROJECT	
PLUTER	
NOTE BOOK	
ALIGNMENT CHECKER	
RT. OF VAY CHECKER	
NO.	

DATE	
BY	
PROJECT	
PLUTER	
NOTE BOOK	
GRADES CHECKER	
SM'S NOTES	
STRUCTURE NOTATIONS CHECKER	
NO.	



CURVE DATA

P.I.	39+44.20 "R"
Δ	47°19'16"
D	9°32'57"
R	600.00'
T	262.89'
L	495.55'
E	55.06'

SCALE:
 1"=20' HORIZONTAL
 1"=5' VERTICAL
 For Legend See Sheet No. 2

All R/W ON THIS SHEET TO BE AS SHOWN
 All R/W ON THIS SHEET DESCRIBED
 FROM LINE "R" EXCEPT AS SHOWN

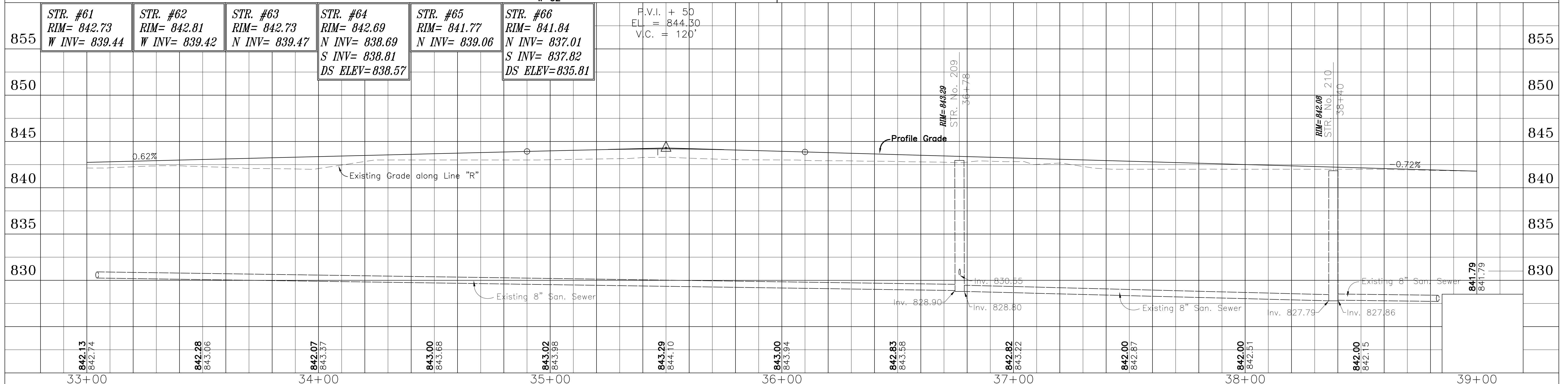
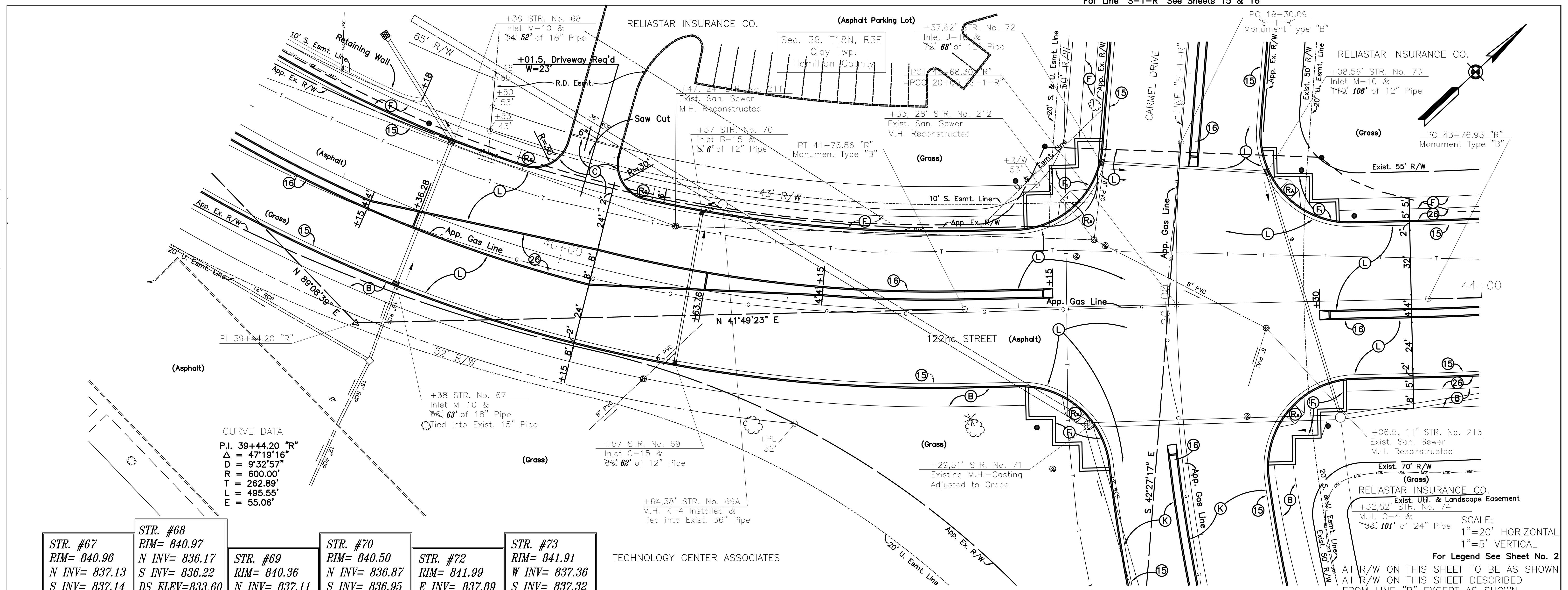


PLATE 3-PLAN-PROFILE B. R. R. STANDARD
 1975

PROJECT NO.	STP-9929()
LINE	"R"
SHEET NO.	8
TOTAL SHEETS	19
FILE	

PLAN
 SURVEYED
 NOTE BOOK ALIGNMENT CHECKED
 RT. BY VAN CHECKED
 No.

PROFILE
 SURVEYED
 NOTES CHECKED
 BY & NOTED
 STRUCTURE NOTATIONS CHECKED
 No.



STR. #67 RIM= 840.96 N INV= 837.13 S INV= 837.14	STR. #68 RIM= 840.97 N INV= 836.17 S INV= 836.22 DS ELEV=833.60	STR. #69 RIM= 840.36 N INV= 837.11	STR. #70 RIM= 840.50 N INV= 836.87 S INV= 836.95	STR. #72 RIM= 841.99 E INV= 837.89	STR. #73 RIM= 841.91 W INV= 837.36 S INV= 837.32
--	--	---	--	---	--

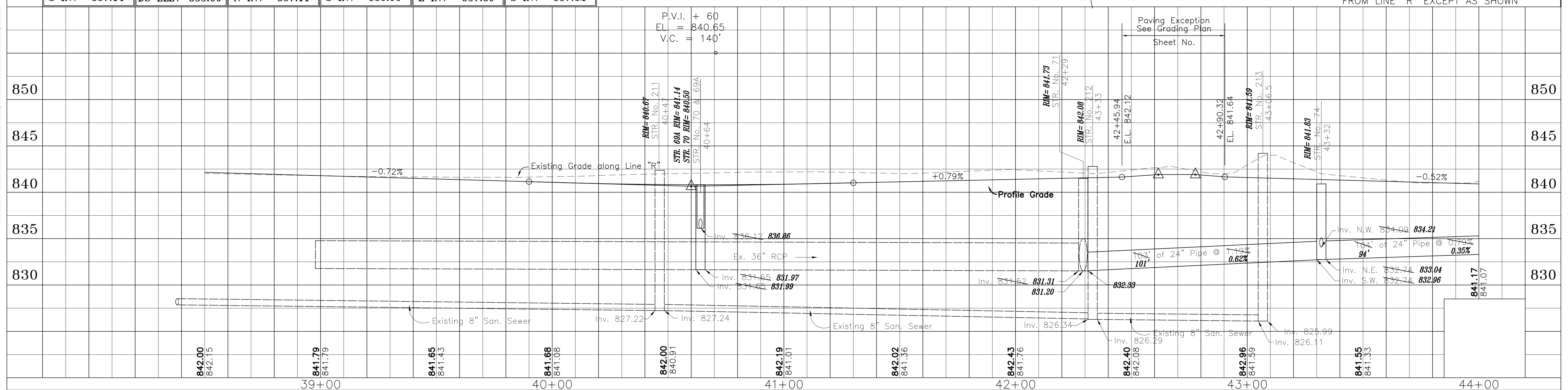


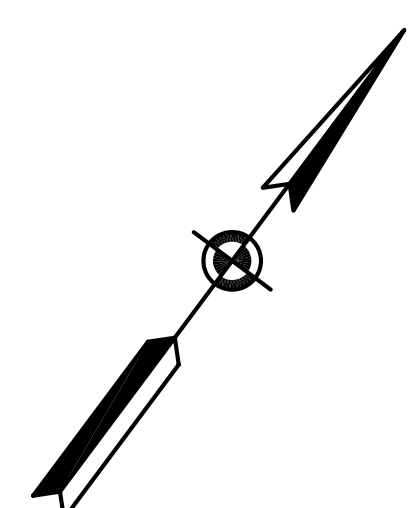
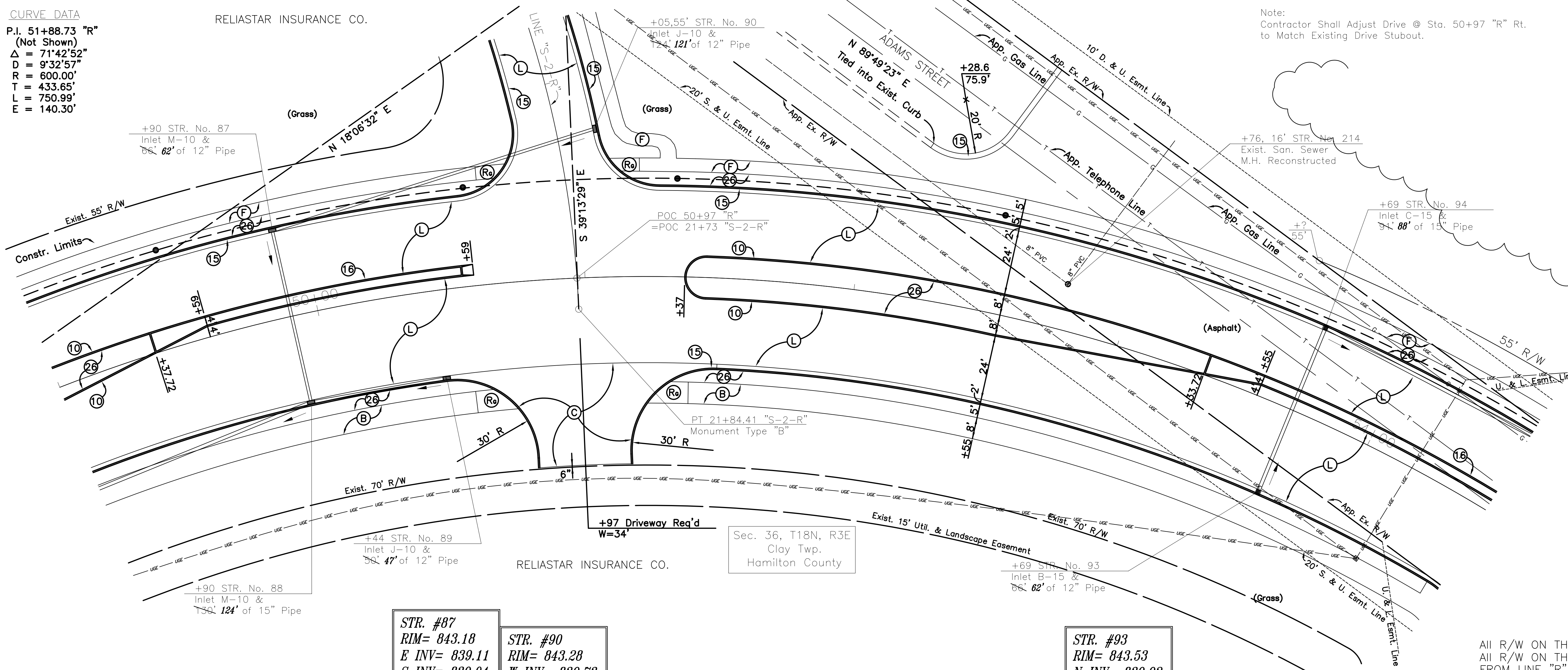
PLATE 3-PLAN-PROFILE 3. R. R. STANDARD
 1975

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
STP-9929()	"R"	9	19	

CURVE DATA
 P.I. 51+88.73 "R"
 (Not Shown)
 $\Delta = 71^{\circ}42'52''$
 $D = 9^{\circ}32'57''$
 $R = 600.00'$
 $T = 433.65'$
 $L = 750.99'$
 $E = 140.30'$

RELIASTAR INSURANCE CO.

Note:
 Contractor Shall Adjust Drive @ Sta. 50+97 "R" Rt.
 to Match Existing Drive Stubout.



SCALE:
 1"=20' HORIZONTAL
 1"=5' VERTICAL

For Legend See Sheet No. 2

All R/W ON THIS SHEET TO BE AS SHOWN
 All R/W ON THIS SHEET DESCRIBED
 FROM LINE "R" EXCEPT AS SHOWN

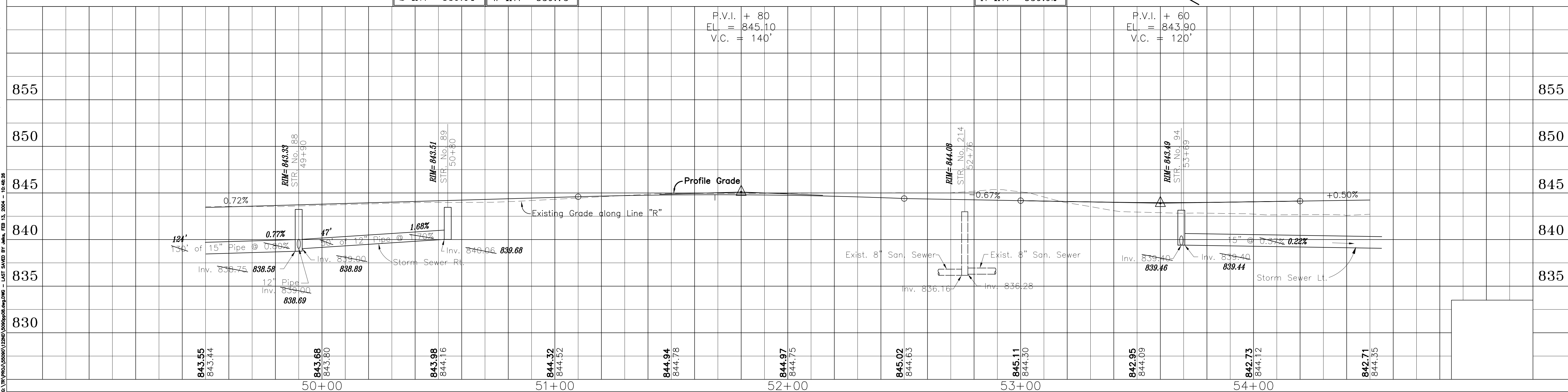
STR. #87
 RIM= 843.18
 E INV= 839.11
 S INV= 839.04

STR. #90
 RIM= 843.28
 W INV= 839.73

STR. #93
 RIM= 843.53
 N INV= 839.92

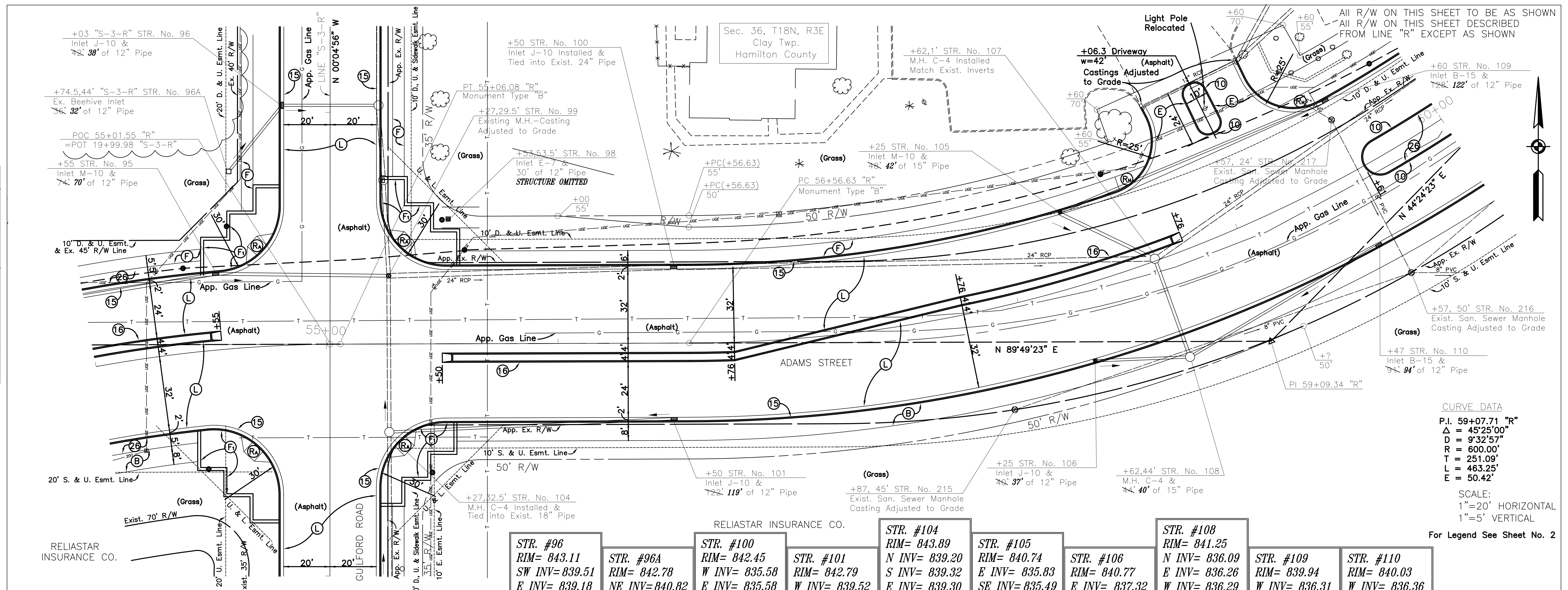
DATE	
BY	
REVISION	
PLAN	
NOTE BOOK	
NO.	

DATE	
BY	
REVISION	
PROFILE	
NOTE BOOK	
NO.	



PLAN
 SURVEYED
 NOTE BOOK
 ALIGNMENT CHECKED
 RT. OF WAY CHECKED

PROFILE
 SURVEYED
 NOTE BOOK
 GRADES CHECKED
 STRUCTURE NOTATIONS CHECKED



CURVE DATA
 P.I. 59+07.71 "R"
 $\Delta = 45^{\circ}25'00''$
 $D = 9^{\circ}32'57''$
 $R = 600.00'$
 $T = 251.09'$
 $L = 463.25'$
 $E = 50.42'$
 SCALE:
 1"=20' HORIZONTAL
 1"=5' VERTICAL
 For Legend See Sheet No. 2

STR. #96 RIM= 843.11 SW INV= 839.51 E INV= 839.18	STR. #96A RIM= 842.78 NE INV= 840.82	STR. #100 RIM= 842.45 W INV= 835.58 E INV= 835.58	STR. #101 RIM= 842.79 W INV= 839.52	STR. #104 RIM= 843.89 N INV= 839.20 S INV= 839.32 E INV= 839.30	STR. #105 RIM= 840.74 E INV= 835.83 SE INV= 835.49	STR. #106 RIM= 840.77 E INV= 837.32	STR. #108 RIM= 841.25 N INV= 836.09 E INV= 836.26 W INV= 836.29	STR. #109 RIM= 839.94 W INV= 836.31	STR. #110 RIM= 840.03 W INV= 836.36
--	--	--	---	---	---	---	---	---	---

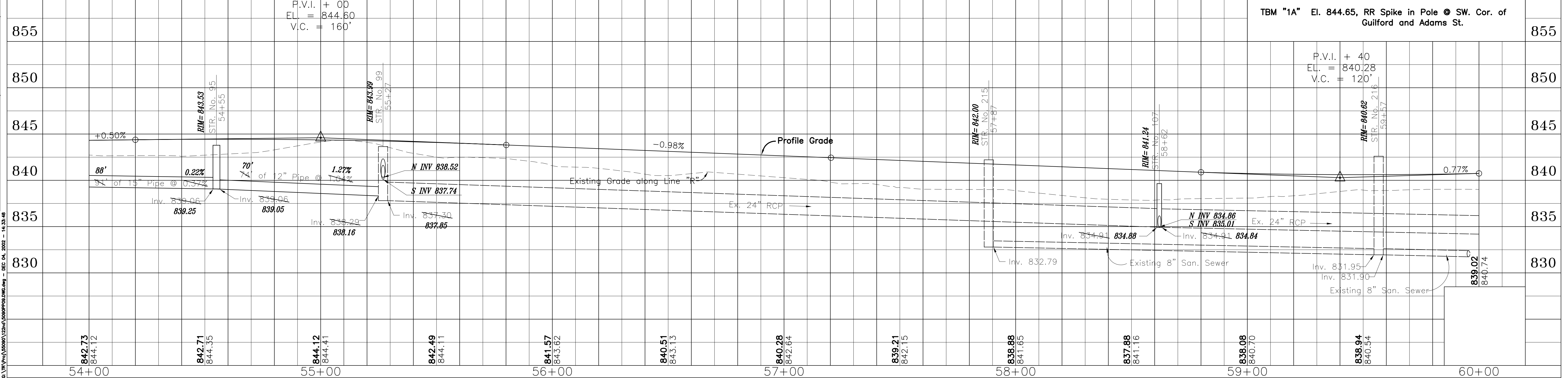
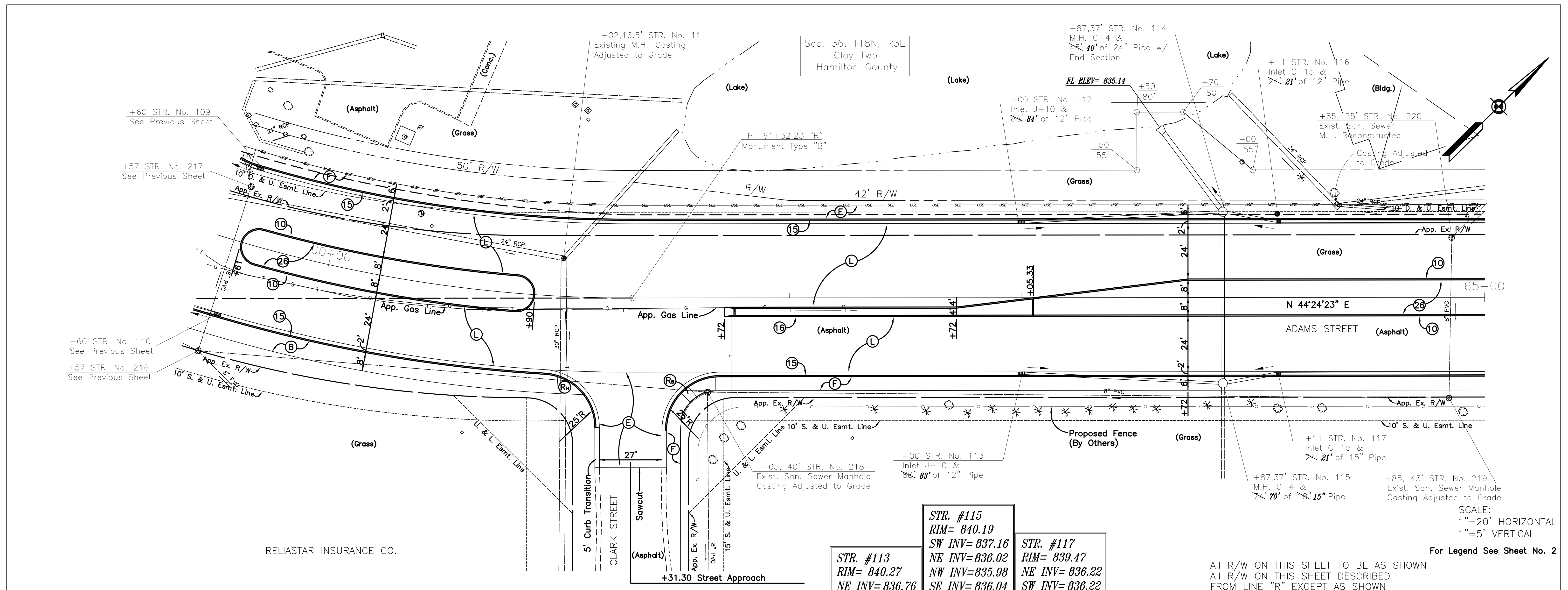


PLATE 3-PLAN-PROFILE B. R. R. STANDARD
 1975

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
STP-9929()	"R"	12	19	

DATE	
BY	
CHECKED	
REVISION	
PLAN	
NOTE BOOK	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
No.	

DATE	
BY	
CHECKED	
REVISION	
PROFILE	
NOTE BOOK	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
No.	



STR. #113 RIM = 840.27 NE INV = 836.76	STR. #115 RIM = 840.19 SW INV = 837.16 NE INV = 836.02 NW INV = 835.98 SE INV = 836.04	STR. #117 RIM = 839.47 NE INV = 836.22 SW INV = 836.22
--	---	---

All R/W ON THIS SHEET TO BE AS SHOWN
 All R/W ON THIS SHEET DESCRIBED
 FROM LINE "R" EXCEPT AS SHOWN

SCALE:
 1" = 20' HORIZONTAL
 1" = 5' VERTICAL

For Legend See Sheet No. 2

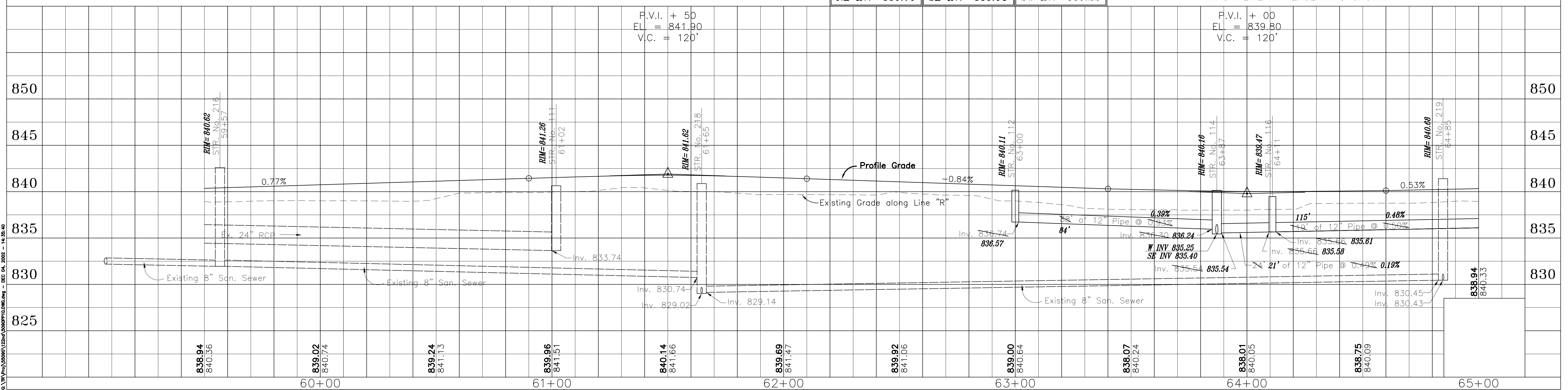
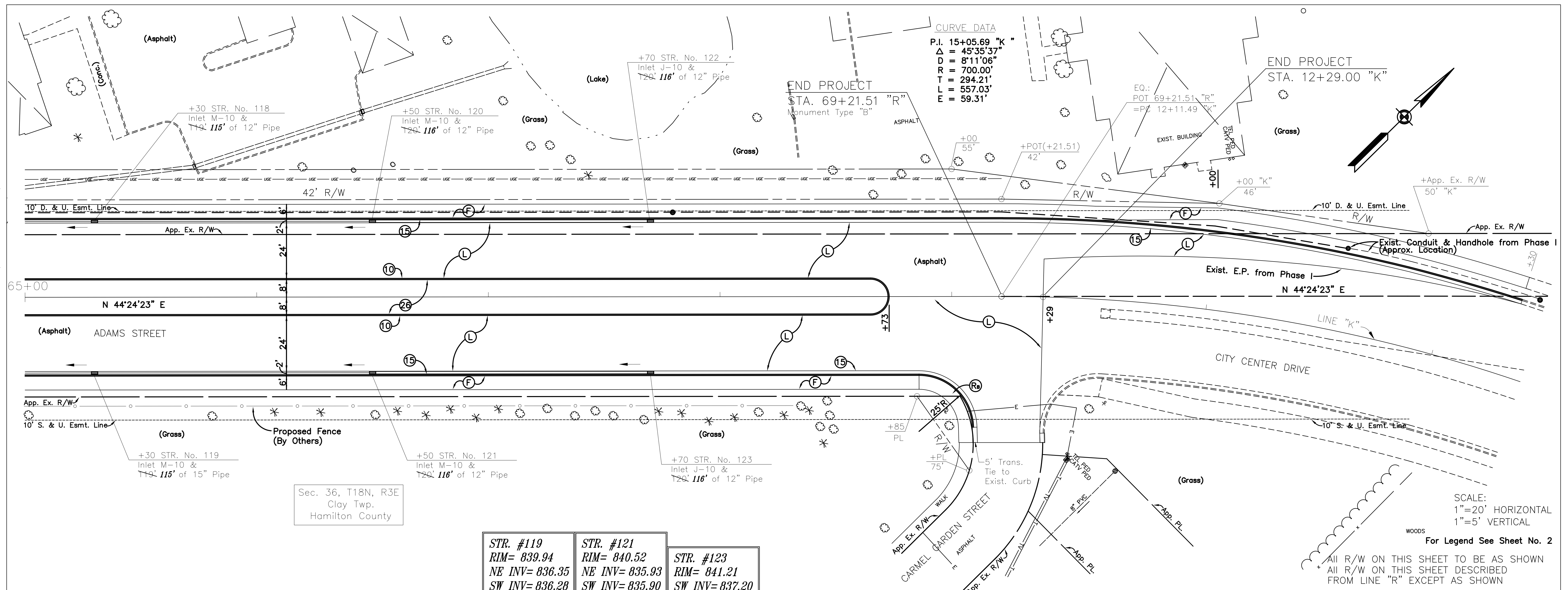


PLATE 3-PLAN-PROFILE B. R. R. STANDARD
 1975

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
STP-9929()	"R"	13	19	

DATE: _____ BY: _____
 PLAN
 REVISIONS:
 1. DATE: _____ BY: _____
 2. DATE: _____ BY: _____
 NOTE BOOK: _____
 ALIGNMENT CHECKED: _____
 RT. OF WAY CHECKED: _____
 No. _____

DATE: _____ BY: _____
 PROFILE
 REVISIONS:
 1. DATE: _____ BY: _____
 2. DATE: _____ BY: _____
 NOTE BOOK: _____
 GRADES CHECKED: _____
 BM'S NOTED: _____
 STRUCTURE NOTATIONS CHECKED: _____
 No. _____



STR. #119 RIM= 839.94 NE INV= 836.35 SW INV= 836.28	STR. #121 RIM= 840.52 NE INV= 835.93 SW INV= 835.90	STR. #123 RIM= 841.21 SW INV= 837.20
---	---	---

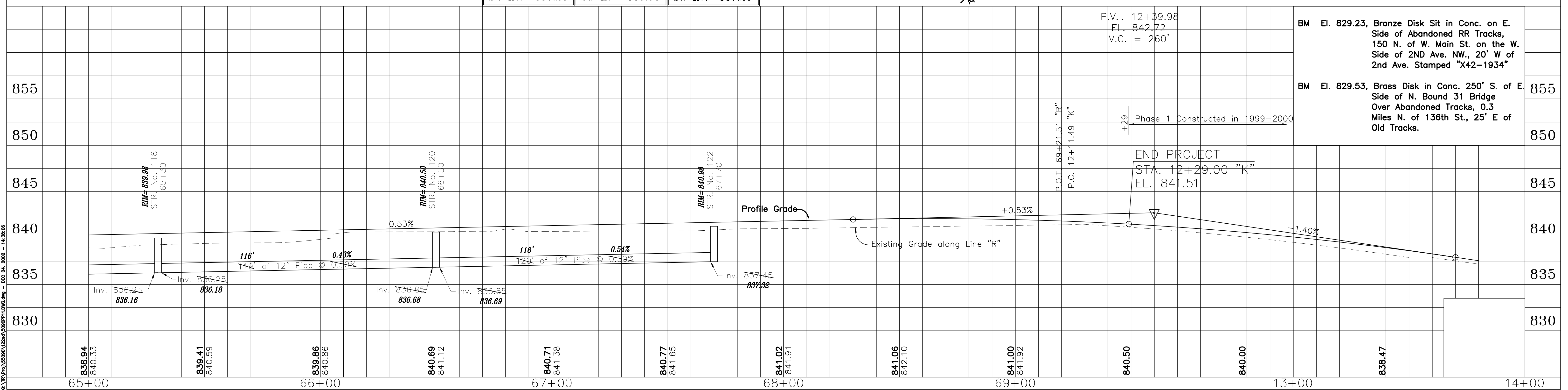


PLATE 3-PLAN-PROFILE B. R. R. STANDARD
 1975

PROJECT NO. STP-9929()	LINE "R"	SHEET NO. 14	TOTAL SHEETS 19	FILE
----------------------------	-------------	-----------------	--------------------	------

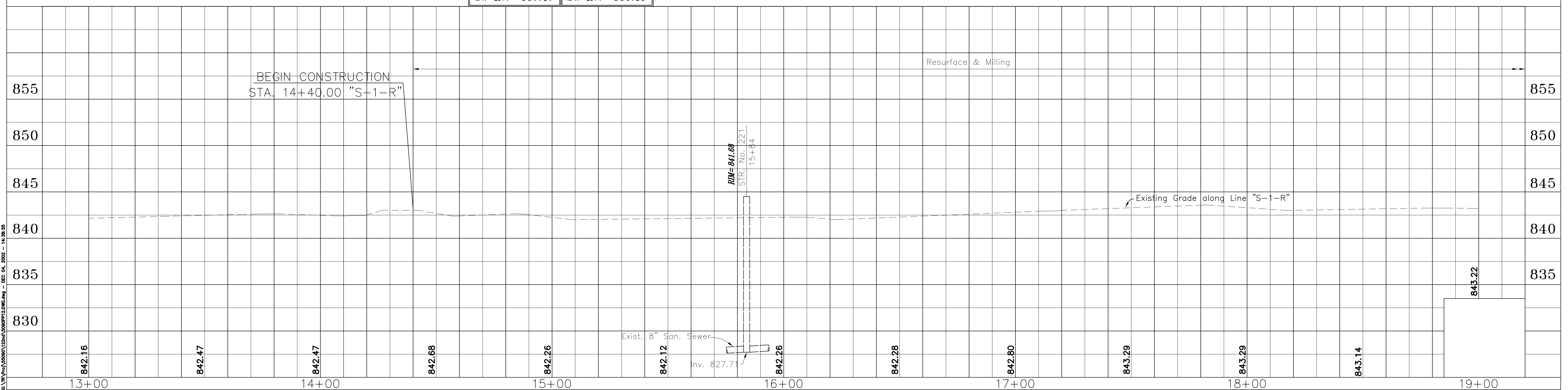
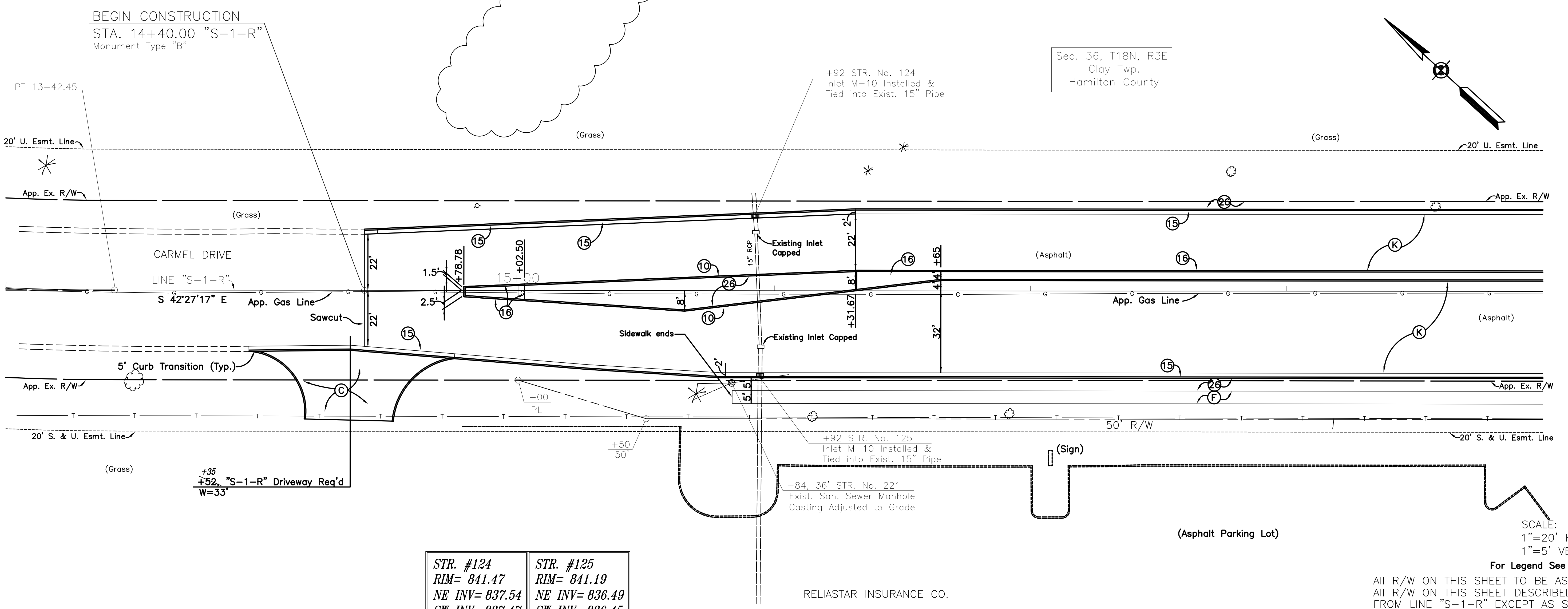
DATE	BY	REVISION

DATE	BY	REVISION

PLAN
 SURVEYED
 NOTE BOOK
 ALIGNMENT CHECKED
 RT. OF WAY CHECKED
 No.

PROFILE
 SURVEYED
 GRADES CHECKED
 B.M.'S NOTED
 STRUCTURE NOTATIONS CHECKED
 No.

© 2004 PWS (05000)1226A\00000913.dwg - DEC 04, 2003 - 14:38:05



PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
STP-9929()	"S-1-R"	15	19	

This copy is from the Digital Archive of the Hamilton County Surveyor's Office; Noblesville, In 46060

For Line "R" See Sheet No. 19

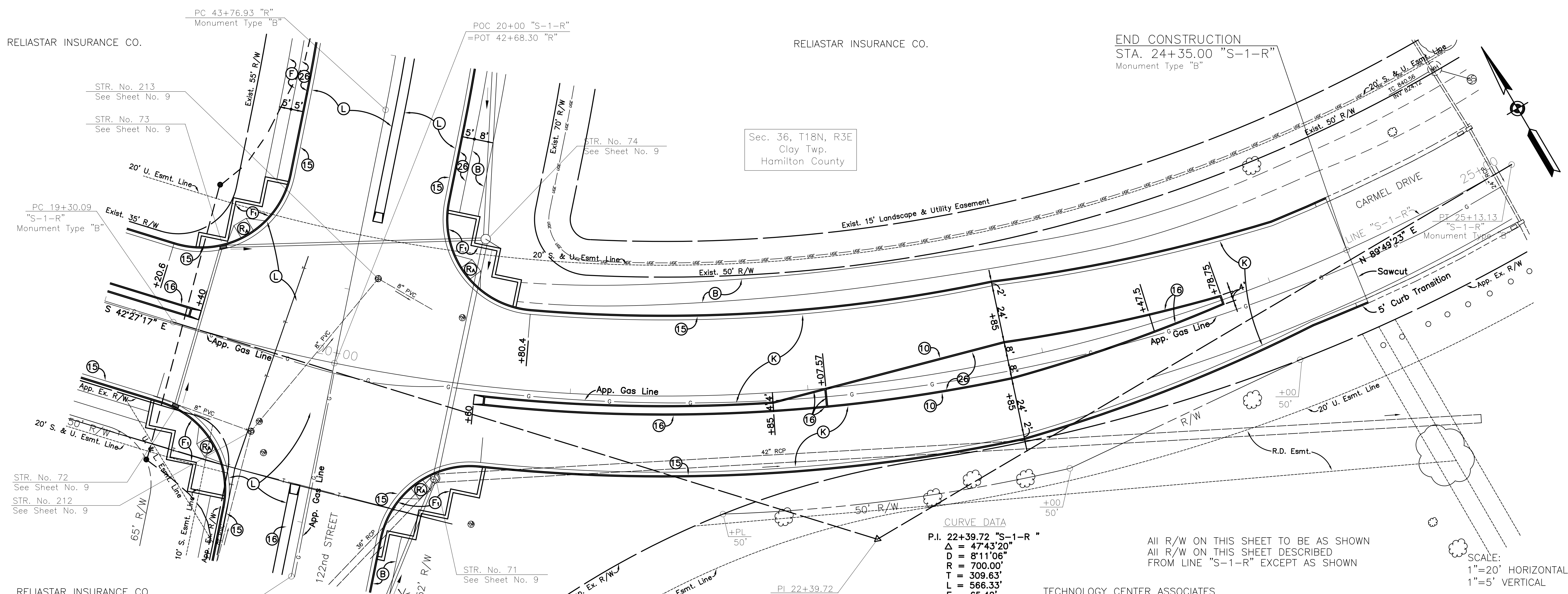
RELIASTAR INSURANCE CO.

RELIASTAR INSURANCE CO.

END CONSTRUCTION
STA. 24+35.00 "S-1-R"
Monument Type "B"

Sec. 36, T18N, R3E
Clay Twp.
Hamilton County

DATE	
BY	
PLAN	
REVISIONS	
NO. 1	DATE
NO. 2	DATE
NO. 3	DATE
NO. 4	DATE
NO. 5	DATE
NO. 6	DATE
NO. 7	DATE
NO. 8	DATE
NO. 9	DATE
NO. 10	DATE
NO. 11	DATE
NO. 12	DATE
NO. 13	DATE
NO. 14	DATE
NO. 15	DATE
NO. 16	DATE
NO. 17	DATE
NO. 18	DATE
NO. 19	DATE
NO. 20	DATE
NO. 21	DATE
NO. 22	DATE
NO. 23	DATE
NO. 24	DATE
NO. 25	DATE
NO. 26	DATE
NO. 27	DATE
NO. 28	DATE
NO. 29	DATE
NO. 30	DATE
NO. 31	DATE
NO. 32	DATE
NO. 33	DATE
NO. 34	DATE
NO. 35	DATE
NO. 36	DATE
NO. 37	DATE
NO. 38	DATE
NO. 39	DATE
NO. 40	DATE
NO. 41	DATE
NO. 42	DATE
NO. 43	DATE
NO. 44	DATE
NO. 45	DATE
NO. 46	DATE
NO. 47	DATE
NO. 48	DATE
NO. 49	DATE
NO. 50	DATE
NO. 51	DATE
NO. 52	DATE
NO. 53	DATE
NO. 54	DATE
NO. 55	DATE
NO. 56	DATE
NO. 57	DATE
NO. 58	DATE
NO. 59	DATE
NO. 60	DATE
NO. 61	DATE
NO. 62	DATE
NO. 63	DATE
NO. 64	DATE
NO. 65	DATE
NO. 66	DATE
NO. 67	DATE
NO. 68	DATE
NO. 69	DATE
NO. 70	DATE
NO. 71	DATE
NO. 72	DATE
NO. 73	DATE
NO. 74	DATE
NO. 75	DATE
NO. 76	DATE
NO. 77	DATE
NO. 78	DATE
NO. 79	DATE
NO. 80	DATE
NO. 81	DATE
NO. 82	DATE
NO. 83	DATE
NO. 84	DATE
NO. 85	DATE
NO. 86	DATE
NO. 87	DATE
NO. 88	DATE
NO. 89	DATE
NO. 90	DATE
NO. 91	DATE
NO. 92	DATE
NO. 93	DATE
NO. 94	DATE
NO. 95	DATE
NO. 96	DATE
NO. 97	DATE
NO. 98	DATE
NO. 99	DATE
NO. 100	DATE



CURVE DATA
 P.I. 22+39.72 "S-1-R"
 $\Delta = 47^{\circ}43'20"$
 $D = 8^{\circ}11'06"$
 $R = 700.00'$
 $T = 309.63'$
 $L = 566.33'$
 $E = 65.42'$

All R/W ON THIS SHEET TO BE AS SHOWN
 All R/W ON THIS SHEET DESCRIBED
 FROM LINE "S-1-R" EXCEPT AS SHOWN

TECHNOLOGY CENTER ASSOCIATES

SCALE:
 1"=20' HORIZONTAL
 1"=5' VERTICAL

For Legend See Sheet No. 2

DATE	
BY	
PROFILE	
REVISIONS	
NO. 1	DATE
NO. 2	DATE
NO. 3	DATE
NO. 4	DATE
NO. 5	DATE
NO. 6	DATE
NO. 7	DATE
NO. 8	DATE
NO. 9	DATE
NO. 10	DATE
NO. 11	DATE
NO. 12	DATE
NO. 13	DATE
NO. 14	DATE
NO. 15	DATE
NO. 16	DATE
NO. 17	DATE
NO. 18	DATE
NO. 19	DATE
NO. 20	DATE
NO. 21	DATE
NO. 22	DATE
NO. 23	DATE
NO. 24	DATE
NO. 25	DATE
NO. 26	DATE
NO. 27	DATE
NO. 28	DATE
NO. 29	DATE
NO. 30	DATE
NO. 31	DATE
NO. 32	DATE
NO. 33	DATE
NO. 34	DATE
NO. 35	DATE
NO. 36	DATE
NO. 37	DATE
NO. 38	DATE
NO. 39	DATE
NO. 40	DATE
NO. 41	DATE
NO. 42	DATE
NO. 43	DATE
NO. 44	DATE
NO. 45	DATE
NO. 46	DATE
NO. 47	DATE
NO. 48	DATE
NO. 49	DATE
NO. 50	DATE
NO. 51	DATE
NO. 52	DATE
NO. 53	DATE
NO. 54	DATE
NO. 55	DATE
NO. 56	DATE
NO. 57	DATE
NO. 58	DATE
NO. 59	DATE
NO. 60	DATE
NO. 61	DATE
NO. 62	DATE
NO. 63	DATE
NO. 64	DATE
NO. 65	DATE
NO. 66	DATE
NO. 67	DATE
NO. 68	DATE
NO. 69	DATE
NO. 70	DATE
NO. 71	DATE
NO. 72	DATE
NO. 73	DATE
NO. 74	DATE
NO. 75	DATE
NO. 76	DATE
NO. 77	DATE
NO. 78	DATE
NO. 79	DATE
NO. 80	DATE
NO. 81	DATE
NO. 82	DATE
NO. 83	DATE
NO. 84	DATE
NO. 85	DATE
NO. 86	DATE
NO. 87	DATE
NO. 88	DATE
NO. 89	DATE
NO. 90	DATE
NO. 91	DATE
NO. 92	DATE
NO. 93	DATE
NO. 94	DATE
NO. 95	DATE
NO. 96	DATE
NO. 97	DATE
NO. 98	DATE
NO. 99	DATE
NO. 100	DATE

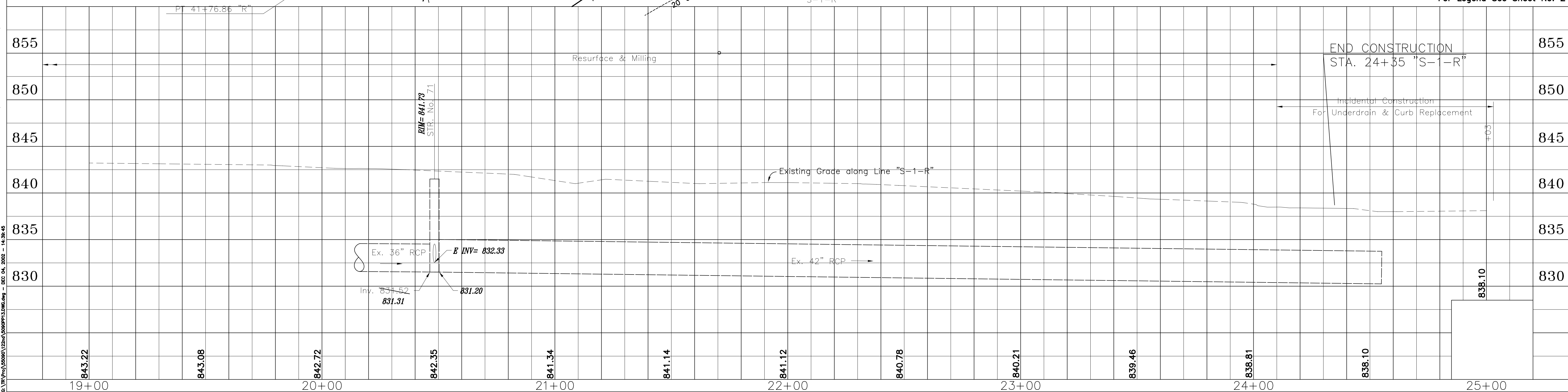
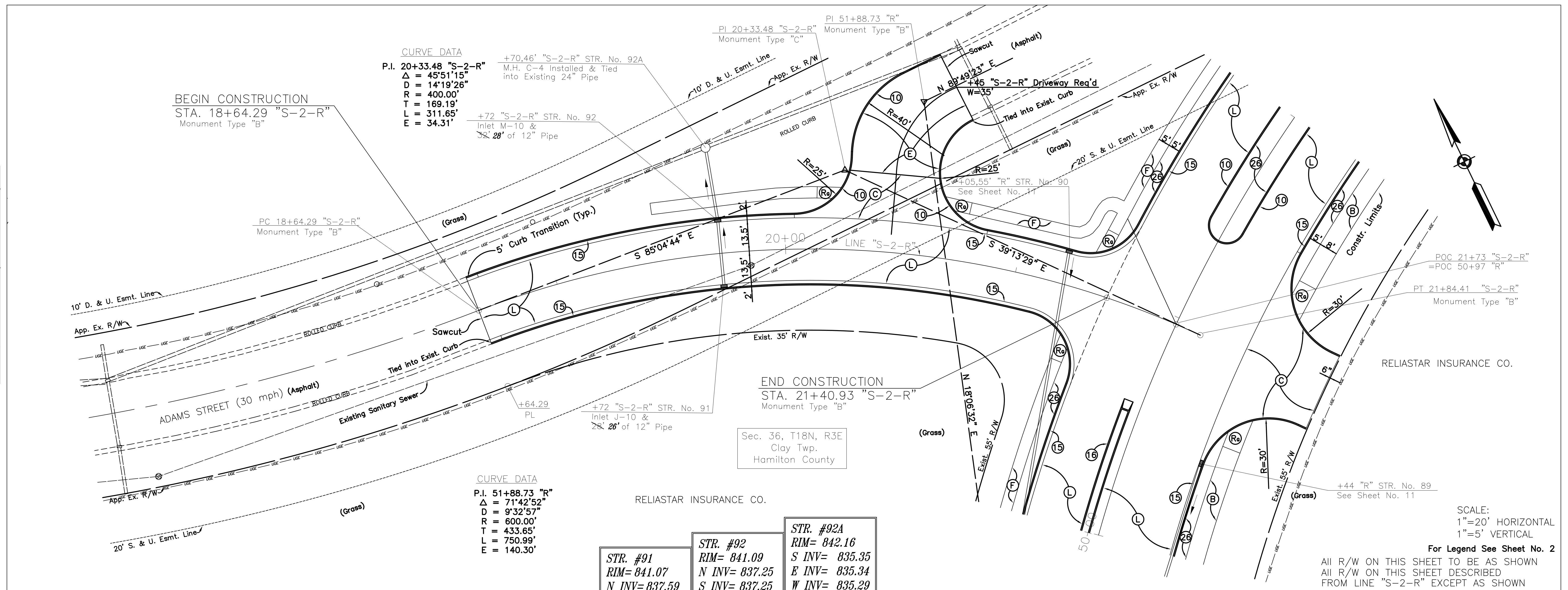


PLATE 3-PLAN-PROFILE B. R. R. STANDARD
 1975

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
STP-9929	"S-1-R"	16	19	

DATE	
BY	
REVISION	
PLAN	
NO.	
NOTE BOOK	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	

DATE	
BY	
REVISION	
PROFILE	
NO.	
NOTE BOOK	
GRADES CHECKED	
BM'S NOTED	
STRUCTURE NOTATIONS CHECKED	



CURVE DATA
 P.I. 20+33.48 "S-2-R"
 $\Delta = 45^{\circ}51'15''$
 $D = 14^{\circ}19'26''$
 $R = 400.00'$
 $T = 169.19'$
 $L = 311.65'$
 $E = 34.31'$

+70.46' "S-2-R" STR. No. 92A
 M.H. C-4 Installed & Tied into Existing 24" Pipe

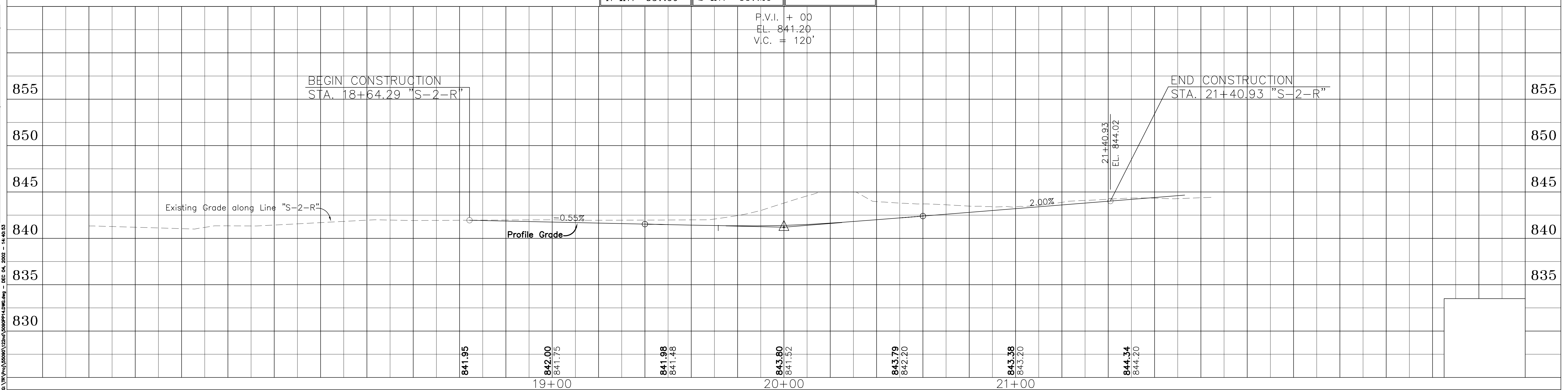
+72 "S-2-R" STR. No. 92
 Inlet M-10 & 2' 28" of 12" Pipe

CURVE DATA
 P.I. 51+88.73 "R"
 $\Delta = 71^{\circ}42'52''$
 $D = 9^{\circ}32'57''$
 $R = 600.00'$
 $T = 433.65'$
 $L = 750.99'$
 $E = 140.30'$

STR. #91	STR. #92	STR. #92A
RIM= 841.07	RIM= 841.09	RIM= 842.16
N INV= 837.59	N INV= 837.25	S INV= 835.35
	S INV= 837.25	E INV= 835.34
		W INV= 835.29

F.V.I. + 00
 EL. 841.20
 V.C. = 120'

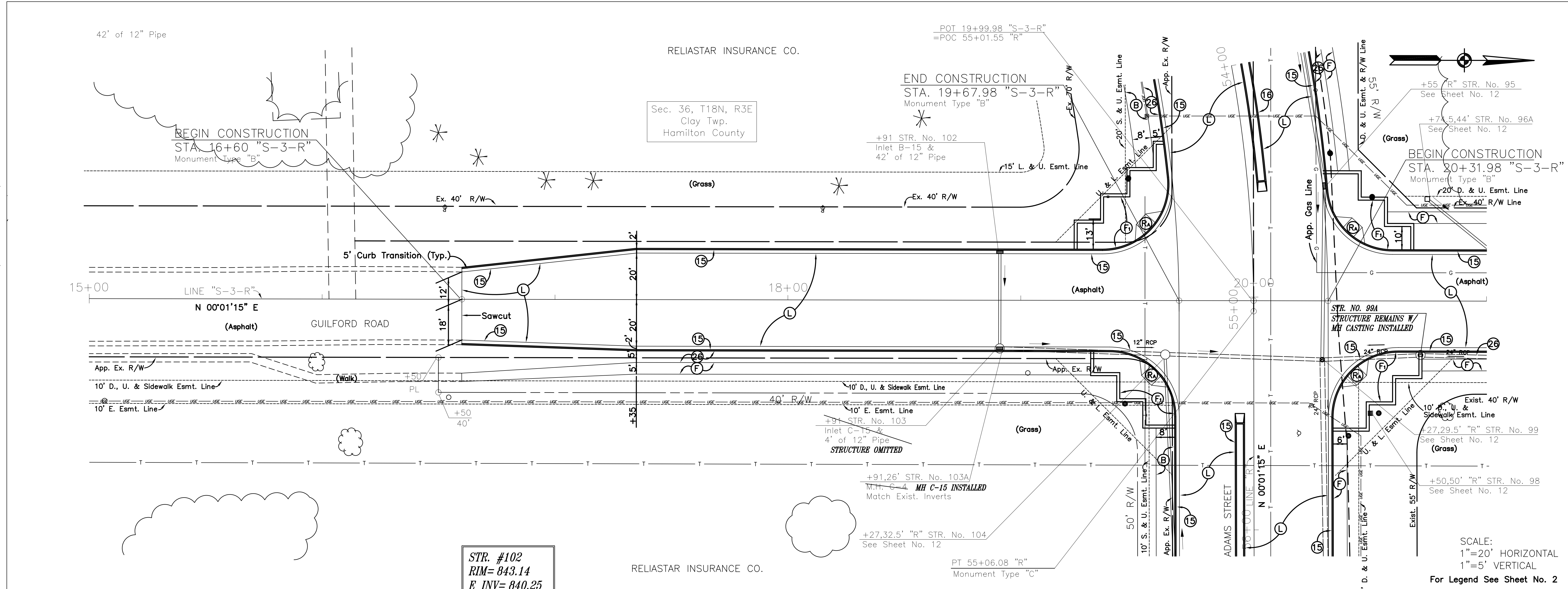
SCALE:
 1"=20' HORIZONTAL
 1"=5' VERTICAL
 For Legend See Sheet No. 2
 All R/W ON THIS SHEET TO BE AS SHOWN
 All R/W ON THIS SHEET DESCRIBED FROM LINE "S-2-R" EXCEPT AS SHOWN



© 1997 by Hamilton County Surveyor's Office
 DEC 04, 2008 - 14:00:53

PLATE 3-PLAN-PROFILE 3. R. R. STANDARD
 1975

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
STP-9929()	"S-2-R"	17	19	



STR. #102
RIM = 843.14
E INV = 840.25

SCALE:
1" = 20' HORIZONTAL
1" = 5' VERTICAL
For Legend See Sheet No. 2

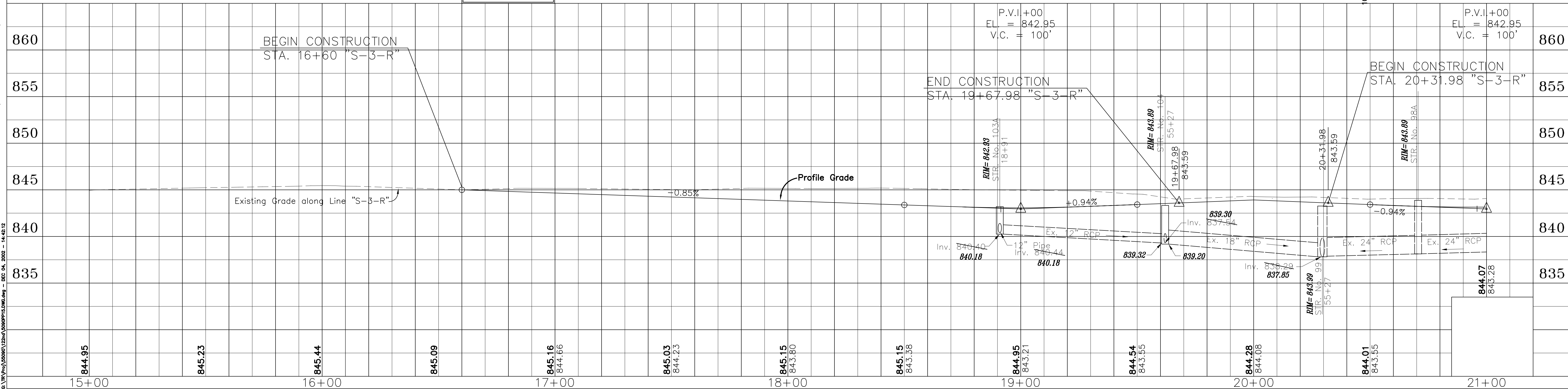


PLATE 3-PLAN-PROFILE B. R. R. STANDARD
1975

PROJECT NO.	LINE NO.	SHEET NO.	TOTAL SHEETS	FILE
STP-9929	S-3-R	18	19	

PLAN

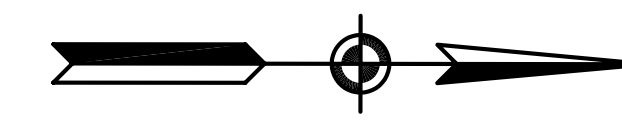
DATE	
BY	
CHECKED	
DESIGNED	
NOTED	
APP'D	
DATE	
BY	
CHECKED	
DESIGNED	
NOTED	
APP'D	
DATE	
BY	
CHECKED	
DESIGNED	
NOTED	
APP'D	
DATE	
BY	
CHECKED	
DESIGNED	
NOTED	
APP'D	

PROFILE

DATE	
BY	
CHECKED	
DESIGNED	
NOTED	
APP'D	
DATE	
BY	
CHECKED	
DESIGNED	
NOTED	
APP'D	
DATE	
BY	
CHECKED	
DESIGNED	
NOTED	
APP'D	

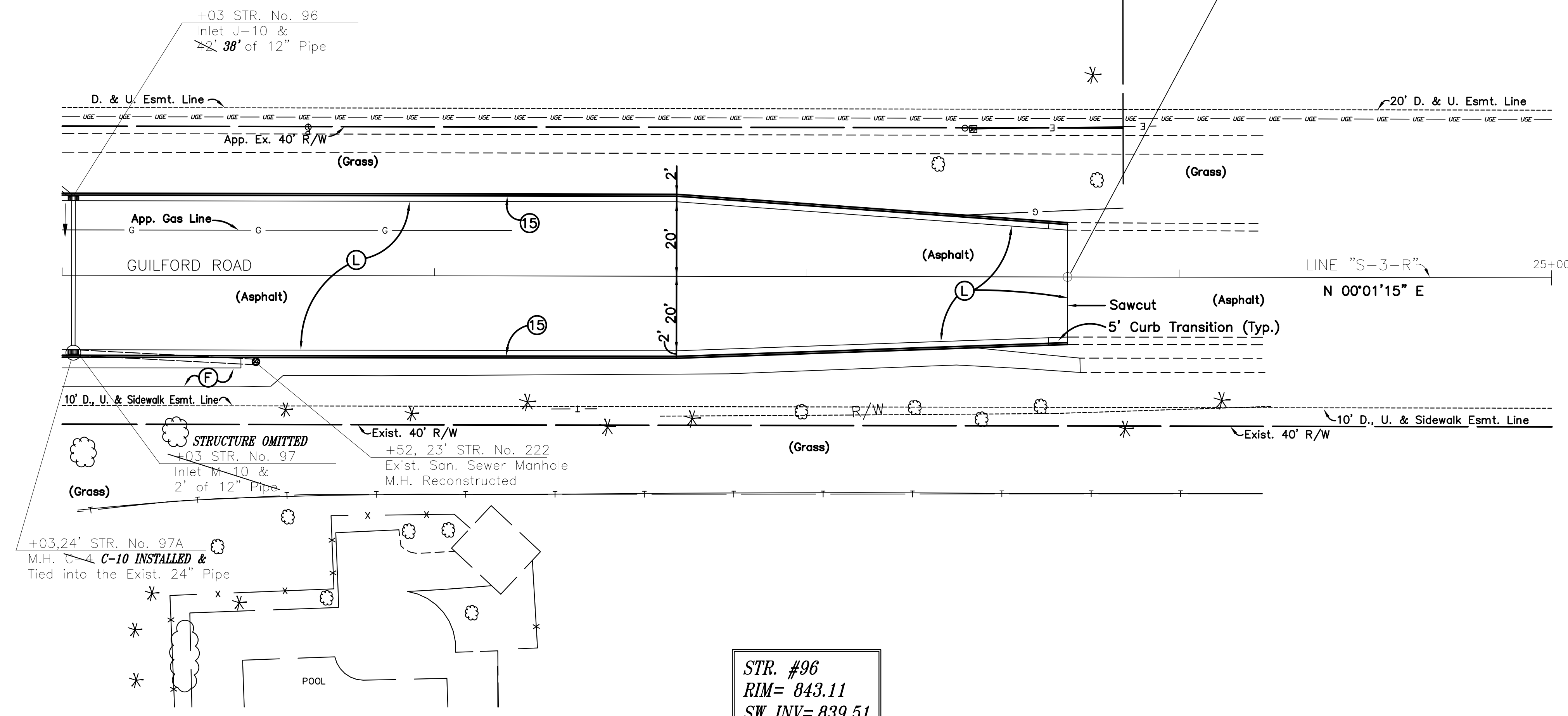
© 2014 by Hamilton County Surveyor's Office, Noblesville, Indiana

Sec. 36, T18N, R3E
Clay Twp.
Hamilton County



END CONSTRUCTION
STA. 23+70 "S-3-R"
Monument Type "B"

PLAN
SURVEYED
NOTE BOOK
ALIGNMENT CHECKED
RT. OF WAY CHECKED



STR. #96
RIM= 843.11
SW INV= 839.51
E INV= 839.18

SCALE:
1"=20' HORIZONTAL
1"=5' VERTICAL
For Legend See Sheet No. 2
All R/W ON THIS SHEET TO BE AS SHOWN
FROM LINE "S-3-R" EXCEPT AS SHOWN

PROFILE
SURVEYED
NOTE BOOK
GRADES CHECKED
BM'S NOTED
STRUCTURE NOTATIONS CHECKED

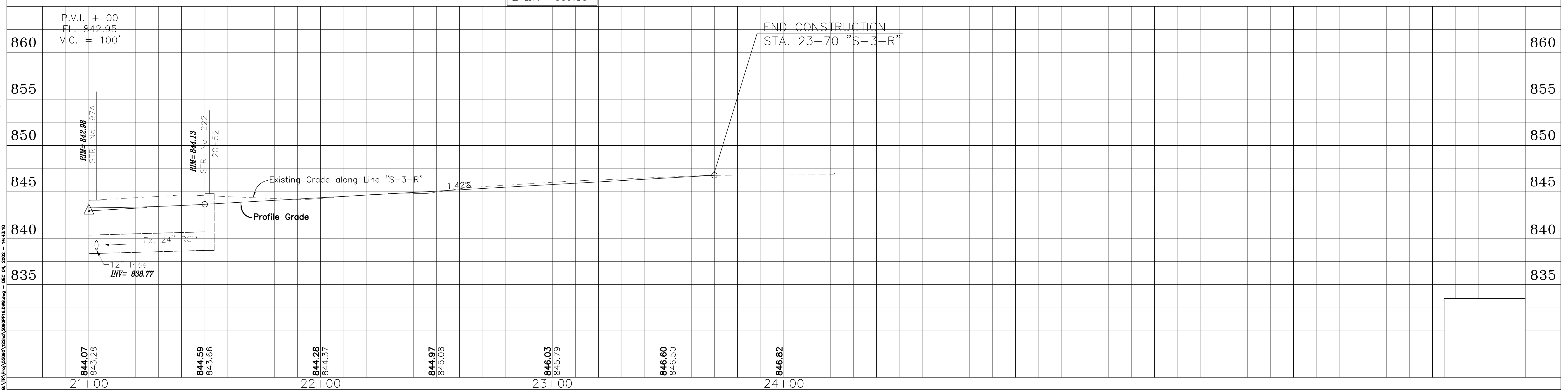


PLATE 3-PLAN-PROFILE 3. R. R. STANDARD
1975

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
STP-9929()	"S-3-R"	19	19	