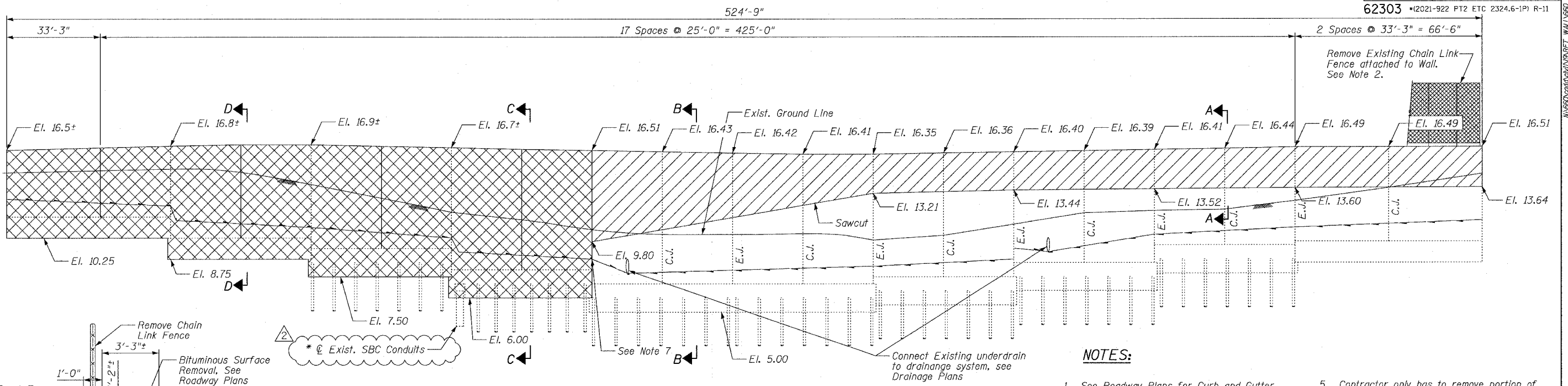


F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	415
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	(2021-922 PT2 ETC 2324.6-1P)	R-11		

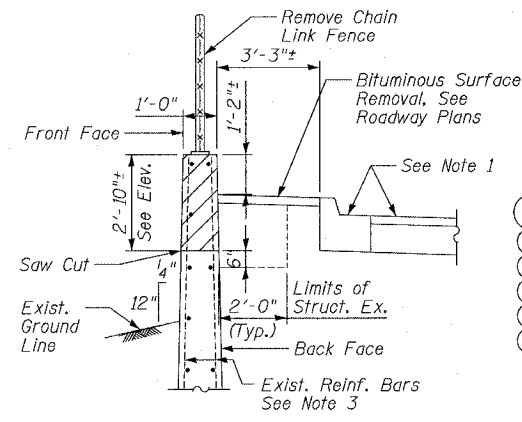


FRONT FACE ELEVATION - EXISTING RETAINING WALL (W-3)

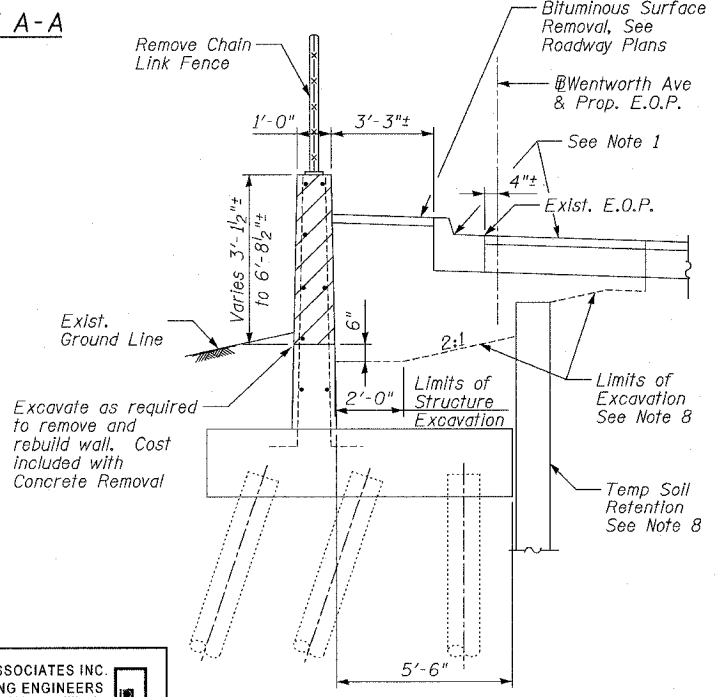
NOTES:

- See Roadway Plans for Curb and Gutter and Pavement Removal and Replacement limits.
- Cost of Chain Link Fence Removal included with Removal of Existing Structures No. 2 or Concrete Removal as appropriate.
- Existing vertical reinforcement bars shall be cleaned, straightened, and incorporated into new construction. Horizontal reinforcement bars shall be removed. Cost included with "Concrete Removal."
- See Roadway Plans for payment of excavations, not included in Structure Excavation.
- Contractor only has to remove portion of existing stem and footing in conflict with proposed wall construction.
- No Structure Excavation paid over limits of Removal of Existing Structures No. 2. Cost of any additional excavation needed to place soldier piles shall be included with Drilling and Setting Soldier Piles (in soil).
- Contractor shall maintain existing wall underdrain to remain and cap end as necessary.
- See Sheet 12 for details of Temp Soil Retention System.
- Saw Cut wall at front face along removal line. Cost of Saw Cuts included with Concrete Removal.

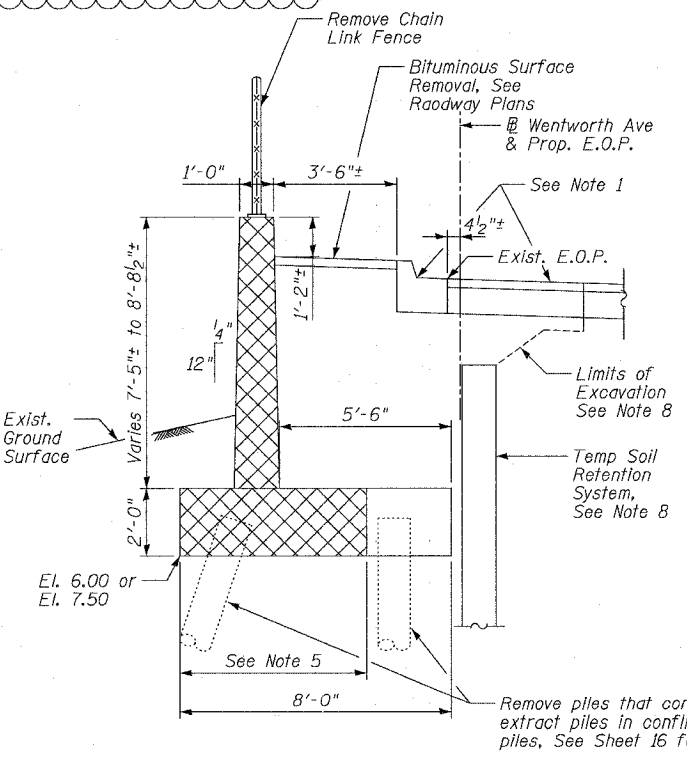
* The Contractor shall be required to locate the top edges of existing conduits by excavating a test pit to establish line and grade for this duct package as it passes under the proposed wall as soon as practical after award of Contract. The Contractor shall report this information to the Engineer and restore the test pit as directed. Cost included with Removal of Existing Structure No. 2.



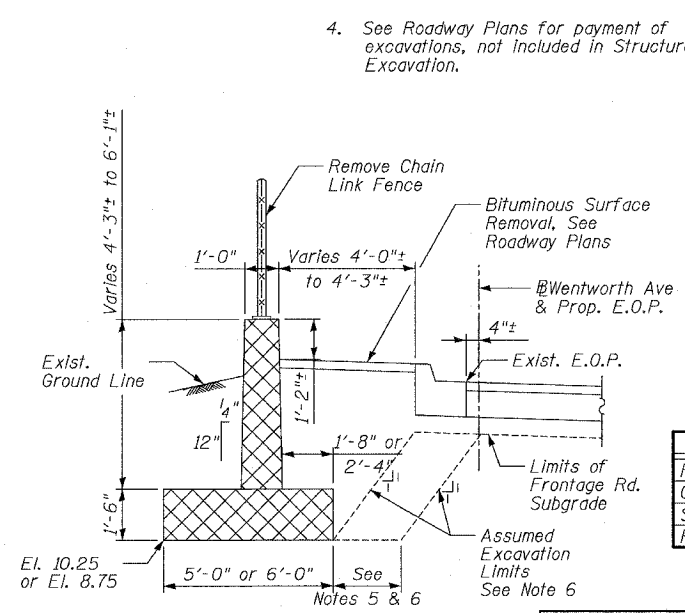
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

LEGEND

- Concrete Removal
- Removal of Existing Structures No. 2

BILL OF MATERIAL

ITEM	UNIT	QTY.
Removal of Existing Structures No. 2	Each	1
Concrete Removal	Cu. Yd.	44
Structure Excavation	Cu. Yd.	188
Pile Extraction	Each	2

SHEET 4 OF 24

REVISIONS	
NAME	DATE
REVISOR	6/14/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 COOK COUNTY
 STA. 3532+90.57 TO STA. 3543+57.42
 RETAINING WALL S-45S-F
 REMOVAL PLAN & DETAILS
 S.N. 016-W978
 SCALE: NTS
 DATE: JUNE 9, 2006
 DRAWN BY: MTR
 CHECKED BY: BLU

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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	416
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62303		*(2021-922 PT2 ETC 2324.6-1P) R-11		

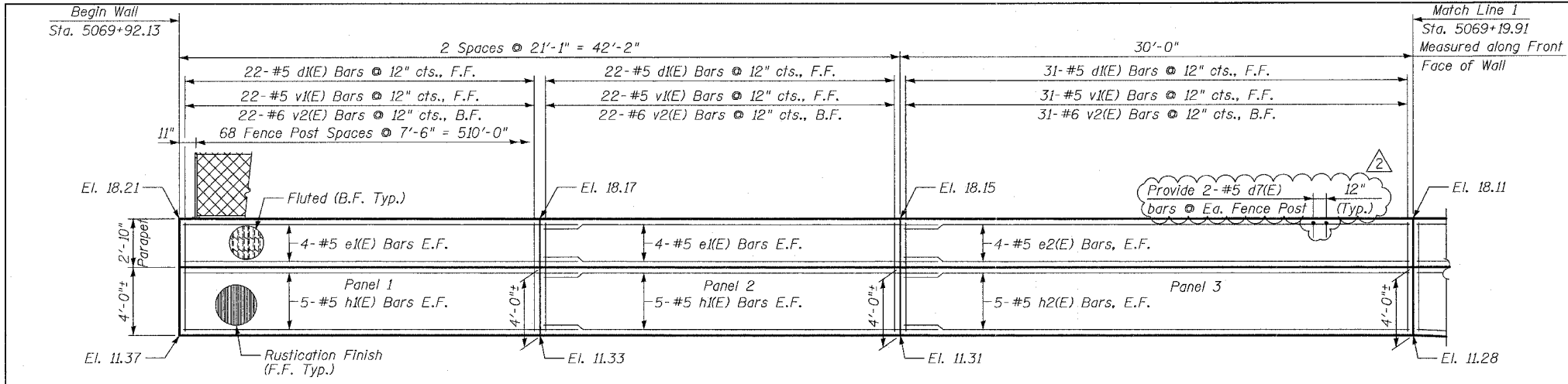
NOTES:

1. Facing in Plan Views is scaled 1:2 on an X:Y scale to show reinforcement.
 2. See details for reinforcing bar clearances.
 3. Stationing is @ Ramp 47A.
 4. See Sheet 16 for Section B-B
- * Order bars full length and cut as indicated in cutting diagram.
 ** Remaining Bars from Cutting Diagram

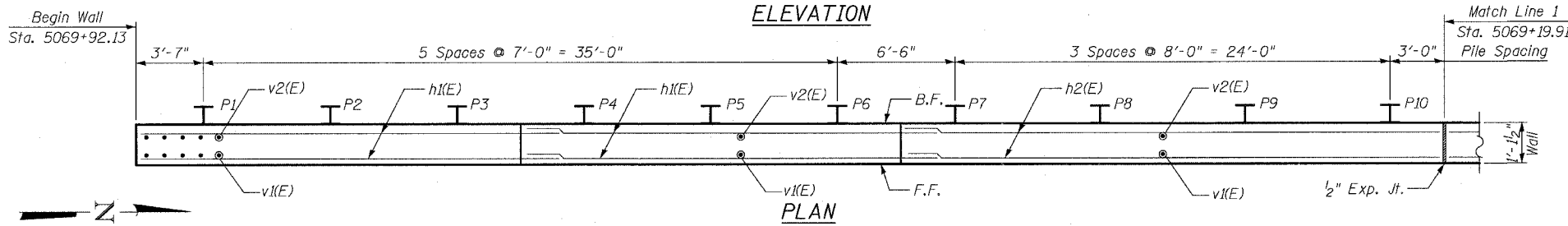
F.F. - denotes Front Face
 B.F. - denotes Back Face
 E.F. - denotes Each Face

MIN BAR LAP

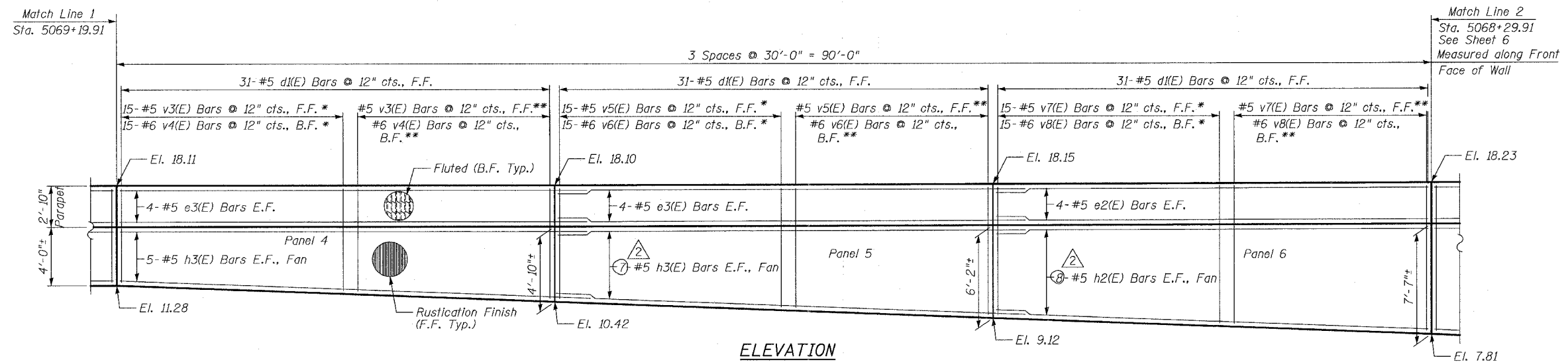
- #5 - 2'-2"
- #6 - 2'-7"



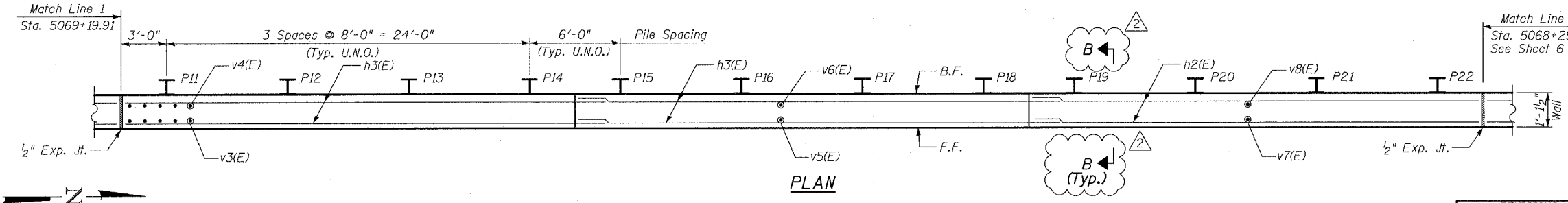
ELEVATION



PLAN



ELEVATION



PLAN

REVISIONS	
NAME	DATE
REVISOR	7/13/06
ADDENDUM 2	8/04/06

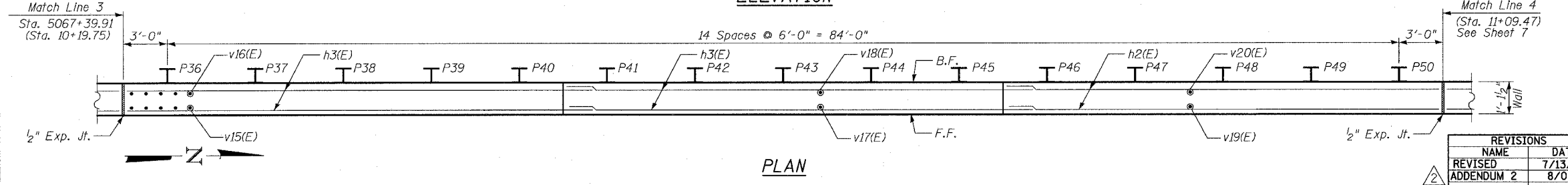
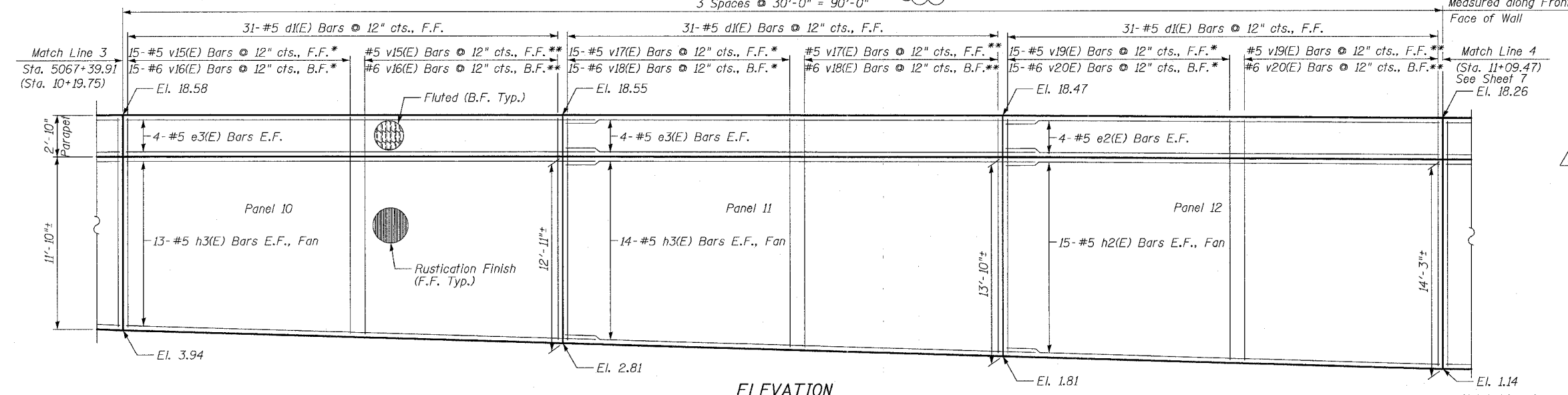
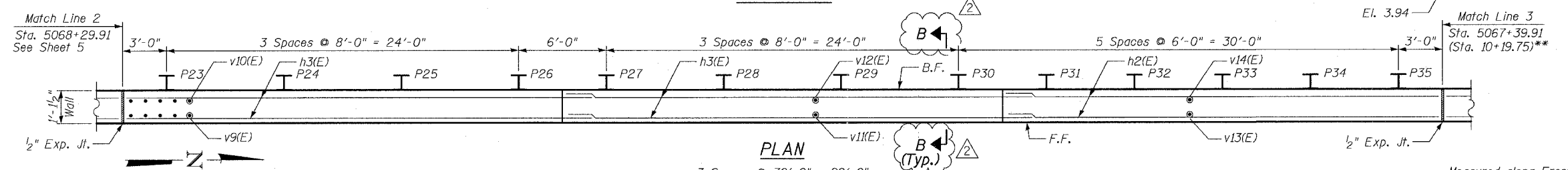
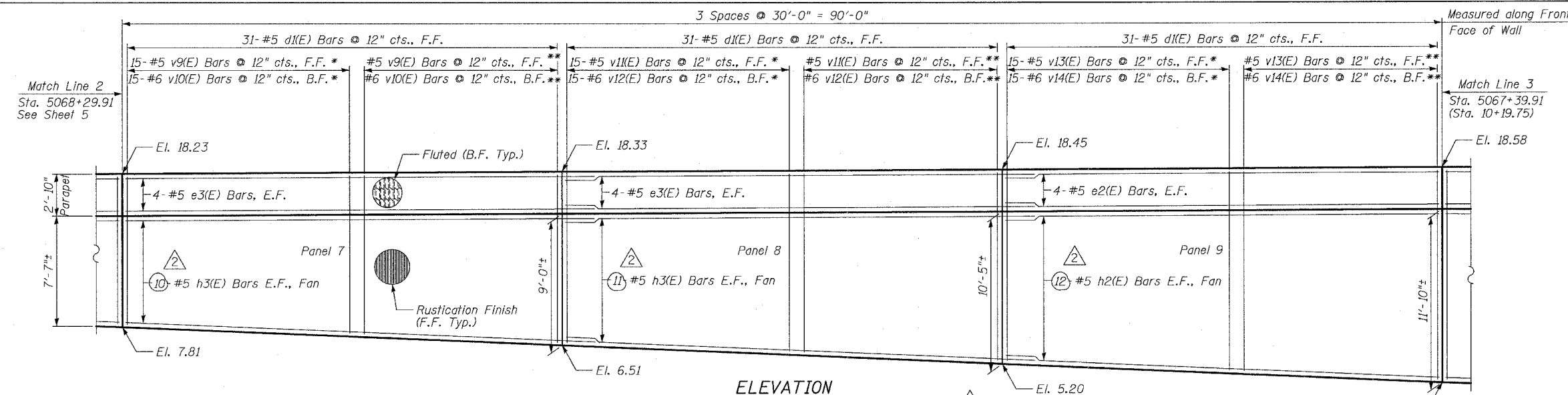
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 COOK COUNTY
 STA. 3532+90.57 TO STA. 3543+57.42
 RETAINING WALL S-45S-F
 WALL DETAILS 1
 S.N. 016-W978

SCALE: NTS
 DATE: JUNE 9, 2006
 DRAWN BY: MTR
 CHECKED BY: BLU

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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	417
STA.		TO STA.		
62303		+12021-922 PT2 ETC 2324.6-1P1 R-11		



- NOTES:**
1. Facing in Plan Views is scaled 1:2 on an X:Y scale to show reinforcement.
 2. See details for reinforcing bar clearances.
 3. Stationing is @ Ramp 47A. Stations in parentheses are @ Wentworth Ave.
 4. See Sheet 16 for Section B-B.

* Order bars full length and cut as indicated in cutting diagram.
 ** Remaining Bars from Cutting Diagram

F.F. - denotes Front Face
 B.F. - denotes Back Face
 E.F. - denotes Each Face

MIN BAR LAP
 #5 - 2'-2"
 #6 - 2'-7"

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 CONSULTING ENGINEERS
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REVISIONS	
NAME	DATE
REVISOR	7/13/06
ADDENDUM 2	8/04/06

SHEET 6 OF 24
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 COOK COUNTY
 STA. 3532+90.57 TO STA. 3543+57.42
 RETAINING WALL S-45S-F
 WALL DETAILS 2
 S.N. 016-W978
 SCALE: NTS
 DATE: JUNE 9, 2006
 DRAWN BY: MTR
 CHECKED BY: BLU

8/10/2006 3:23 PM

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	419
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	*2021-922 PT2 ETC 2324.6-1P) R-11			

NOTES:

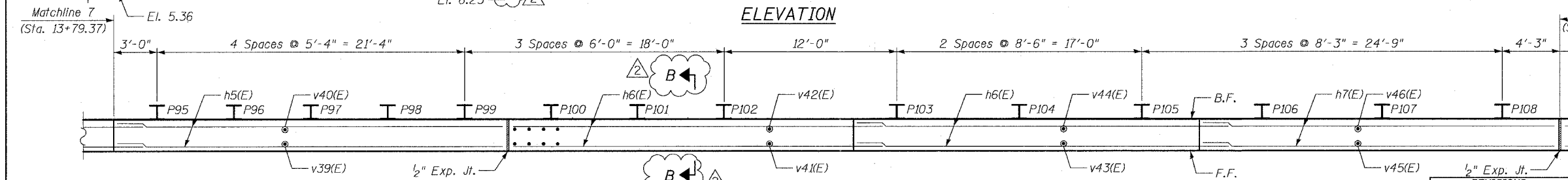
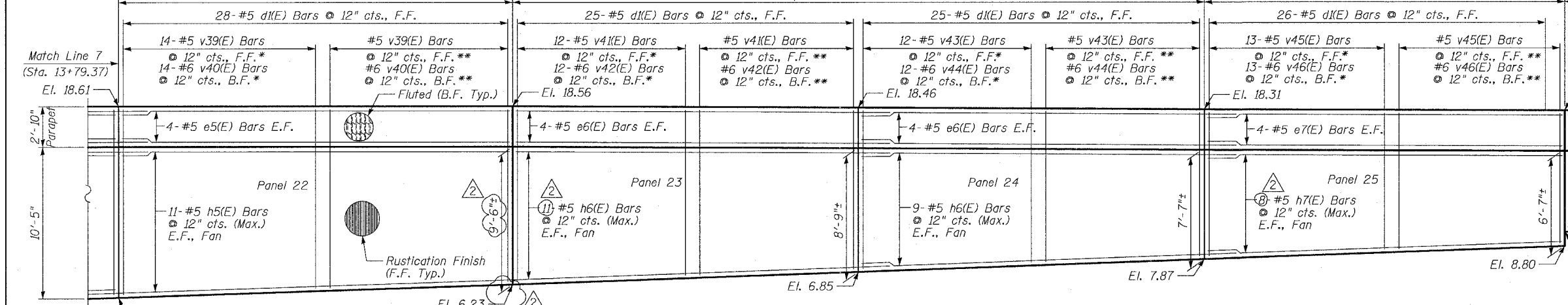
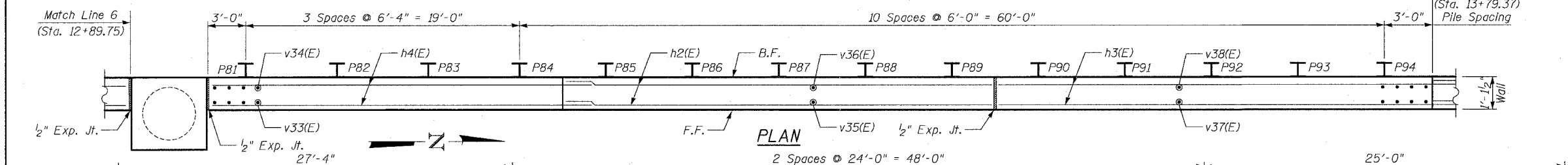
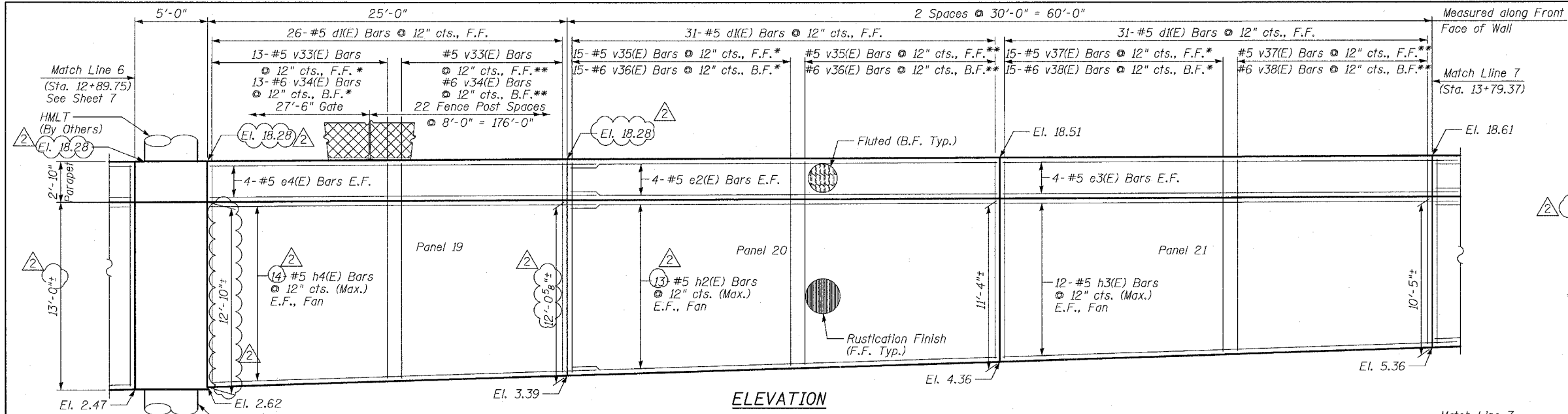
1. Facing in Plan Views is scaled 1:2 on an X:Y scale to show reinforcement.
2. See details for reinforcing bar clearances.
3. Stationing in parentheses is @ Wentworth Ave.
4. See Sheet 16 for Section B-B.

* Order bars full length and cut as indicated in cutting diagram.
 ** Remaining Bars from Cutting Diagram

F.F. - denotes Front Face
 B.F. - denotes Back Face
 E.F. - denotes Each Face

MIN BAR LAP

- #5 - 2'-2"
- #6 - 2'-7"



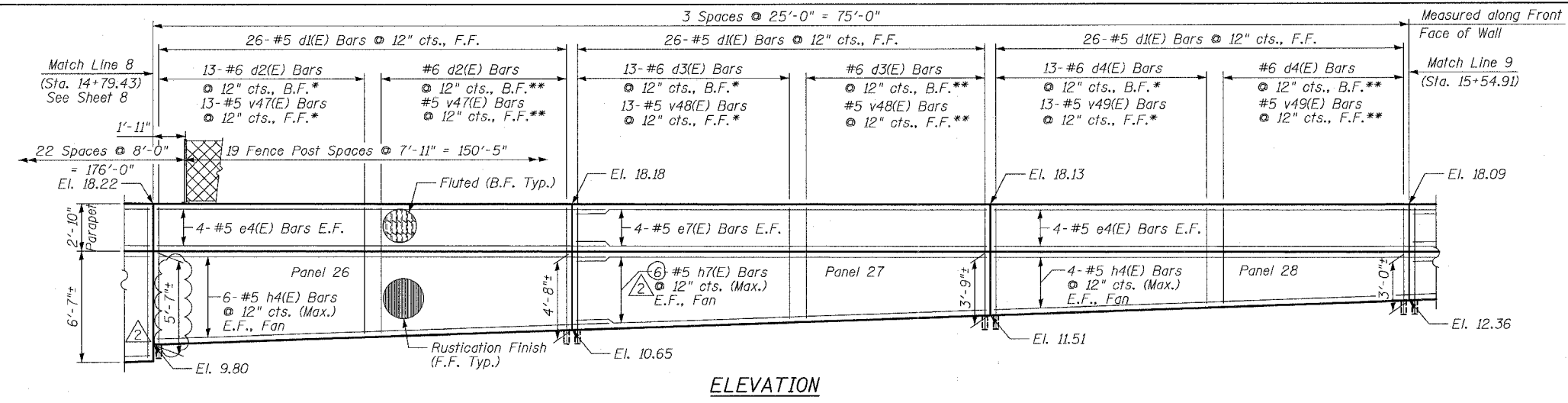
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REVISIONS	
NAME	DATE
REVISED	6/13/06
REVISED	7/13/06
ADDENDUM 2	8/04/06

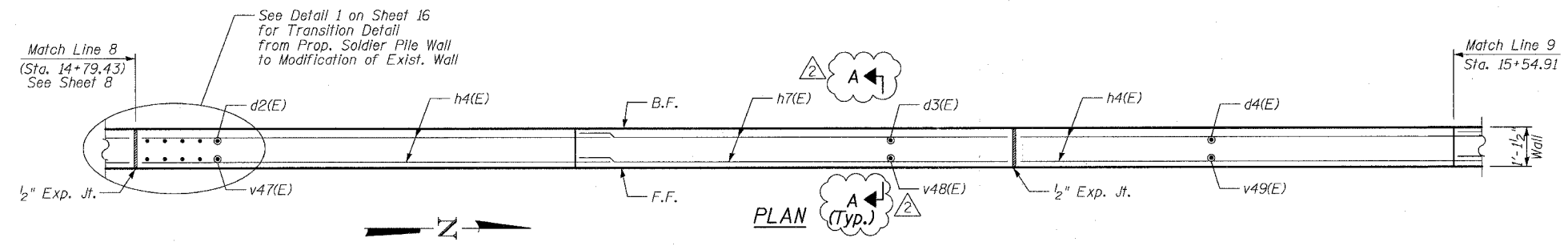
SHEET 8 OF 24
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 COOK COUNTY
 STA. 3532+90.57 TO STA. 3543+57.42
 RETAINING WALL S-45S-F
 WALL DETAILS 4
 S.N. 016-W978
 SCALE: NTS
 DATE: JUNE 9, 2006
 DRAWN BY: MTR
 CHECKED BY: BLU

R:\62303\94\90\99\RET WALL\SEC 4\SS45S-F_04.dwg 3/04/06

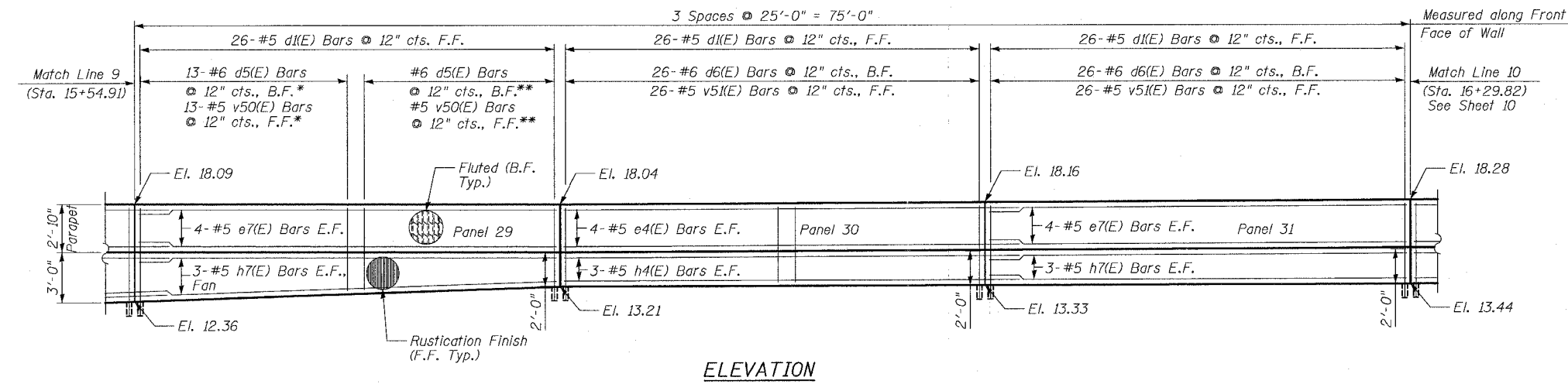
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	420
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62303		*12021-922 PT2 ETC 2324.6-1P) R-11		



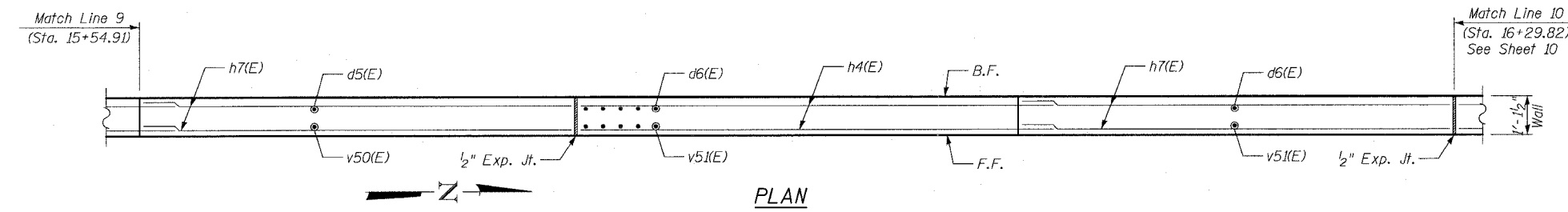
ELEVATION



PLAN



ELEVATION



PLAN

- NOTES:**
- Epoxy grout #6 d2(E) thru d6(E) bars in drilled holes with a min. depth of 9" in accordance with Art. 584 of the Std. Specs.
 - Facing in Plan Views is scaled 1:2 on an X:Y scale to show reinforcement.
 - See details for reinforcing bar clearances.
 - Stations in parentheses are @ Wentworth Ave.
 - See Sheet 16 for Section A-A.

* Order bars full length and cut as indicated in cutting diagram.
 ** Remaining Bars from Cutting Diagram

F.F. - denotes Front Face
 B.F. - denotes Back Face
 E.F. - denotes Each Face

MIN BAR LAP
 #5 - 2'-2"
 #6 - 2'-7"

SHEET 9 OF 24

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 COOK COUNTY
 STA. 3532+90.57 TO STA. 3543+57.42
 RETAINING WALL S-45S-F
 WALL DETAILS 5
 S.N. 016-W978

SCALE: NTS
 DATE: JUNE 9, 2006

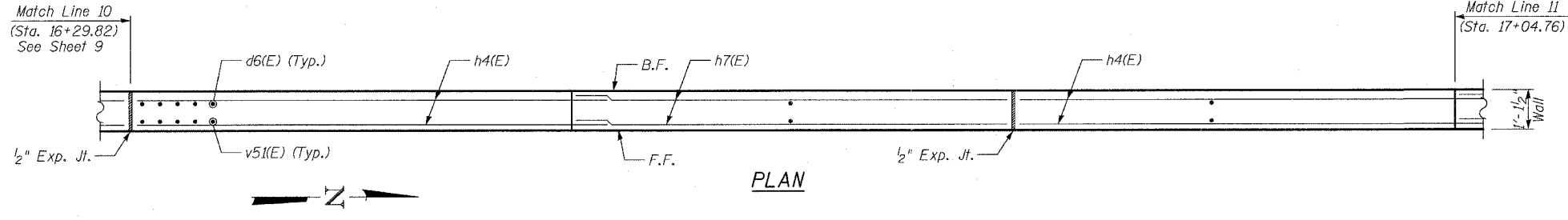
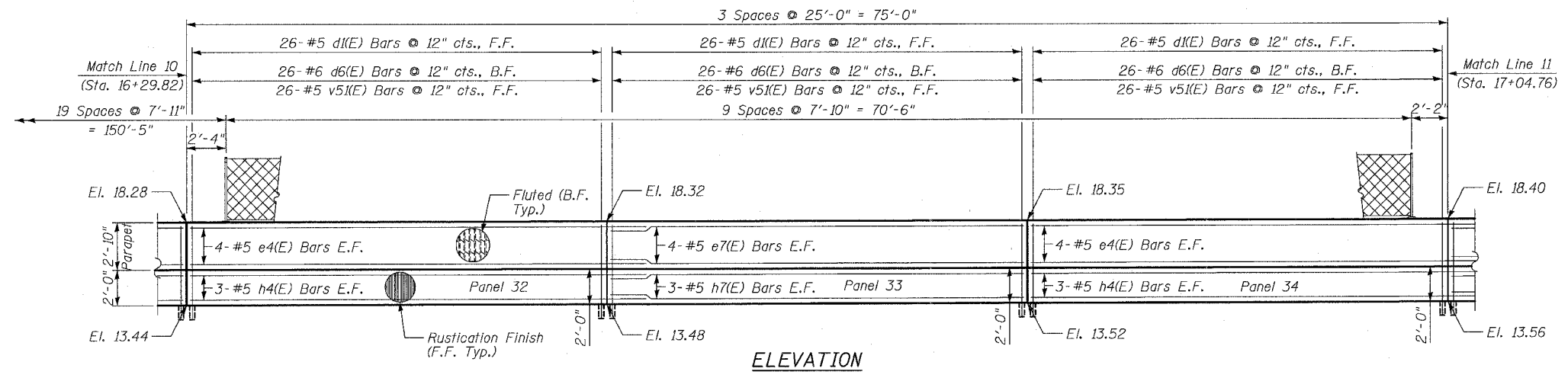
DRAWN BY: MTR
 CHECKED BY: BLU

REVISIONS	
NAME	DATE
REVISOR	7/13/06
ADDENDUM 2	8/04/06

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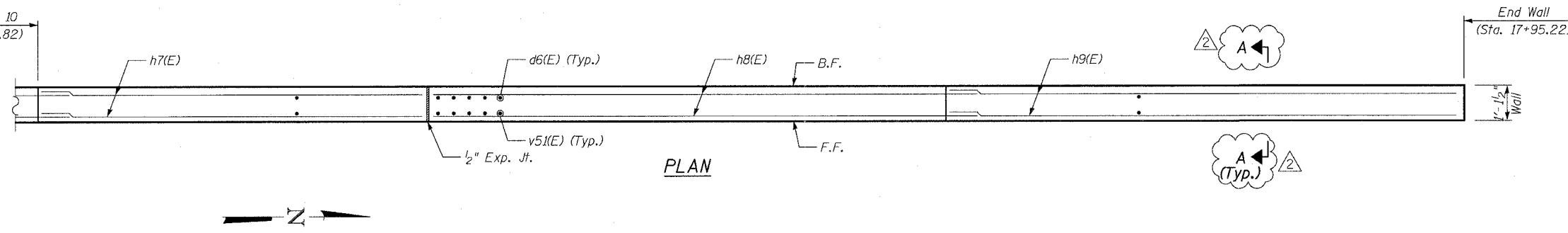
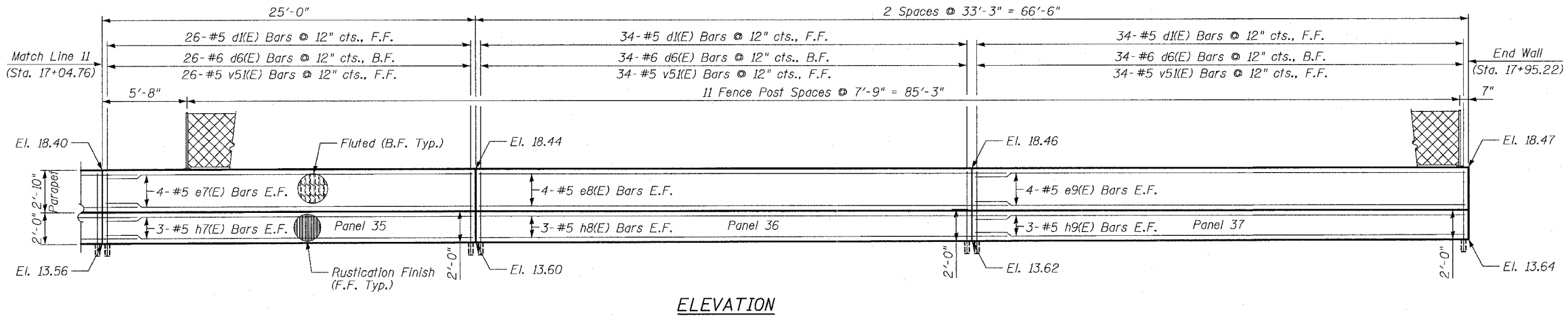
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	421
STA.		TO STA.		
62303		*(2021-922 PT2 ETC 2324.6-1P) R-11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



- NOTES:**
- Epoxy grout #6d2(E) thru d6(E) bars in drilled holes with a min. depth of 9" in accordance with Art. 584 of the Std. Specs.
 - Facing in Plan Views is scaled 1:2 on an X:Y scale to show reinforcement.
 - See details for reinforcing bar clearances.
 - Stations in parentheses are @ Wentworth Ave.
 - See Sheet 16 for Section A-A.

F.F. - denotes Front Face
 B.F. - denotes Back Face
 E.F. - denotes Each Face

MIN BAR LAP
 #5 - 2'-2"
 #6 - 2'-7"



SHEET 10 OF 24

REVISIONS	
NAME	DATE
REVISOR	7/13/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 COOK COUNTY
 STA. 3532+90.57 TO STA. 3543+57.42
 RETAINING WALL S-45S-F
 WALL DETAILS 6
 S.N. 016-W978
 SCALE: NTS
 DATE: JUNE 9, 2006
 DRAWN BY: MTR
 CHECKED BY: BLU

BOWMAN, BARRETT & ASSOCIATES INC.
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 Chicago, Illinois
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3/10/2006 3:09:49 PM

PILE LAYOUT

Pile	Offset (Ft.)	Top of Wall El.	Top of Pile Elevation	Bott. of Facing Elevation	Section	Pile Tip Elevation	Pile Length (Ft.)
P-1	4.66	15.37	14.37	11.36	W10x33	-3.81	18.18
P-2	4.66	15.35	14.35	11.35	W10x33	-3.81	18.17
P-3	4.66	15.34	14.34	11.34	W10x33	-3.81	18.15
P-4	4.66	15.33	14.33	11.33	W10x33	-4.34	18.67
P-5	4.66	15.32	14.32	11.32	W10x33	-4.34	18.66
P-6	4.66	15.32	14.32	11.32	W10x33	-4.34	18.66
P-7	4.66	15.31	14.31	11.30	W10x33	-5.40	19.71
P-8	4.66	15.30	14.30	11.30	W10x33	-5.40	19.70
P-9	4.66	15.29	14.29	11.29	W10x33	-5.40	19.69
P-10	4.66	15.28	14.28	11.29	W10x33	-5.40	19.69
P-11	4.83	15.28	14.28	11.14	W14x61	-10.65	24.93
P-12	4.83	15.28	14.28	10.99	W14x61	-10.65	24.92
P-13	4.83	15.27	14.27	10.85	W14x61	-10.65	24.92
P-14	4.83	15.27	14.27	10.71	W14x61	-10.65	24.92
P-15	4.83	15.28	14.28	10.16	W14x61	-11.95	26.23
P-16	4.83	15.29	14.29	9.94	W14x61	-11.95	26.24
P-17	4.83	15.30	14.30	9.73	W14x61	-11.95	26.25
P-18	4.83	15.31	14.31	9.51	W14x61	-11.95	26.26
P-19	5.36	15.32	14.32	8.86	W27x84	-16.64	30.96
P-20	5.36	15.34	14.34	8.64	W27x84	-16.64	30.98
P-21	5.36	15.36	14.36	8.42	W27x84	-16.64	31.00
P-22	5.36	15.39	14.39	8.20	W27x84	-16.64	31.02
P-23	5.36	15.40	14.40	7.55	W27x84	-17.94	32.35
P-24	5.36	15.43	14.43	7.33	W27x84	-17.94	32.37
P-25	5.36	15.46	14.46	7.12	W27x84	-17.94	32.40
P-26	5.36	15.49	14.49	6.90	W27x84	-17.94	32.43
P-27	5.36	15.51	14.51	6.25	W27x84	-19.25	33.76
P-28	5.36	15.54	14.54	6.03	W27x84	-19.25	33.79
P-29	5.36	15.57	14.57	5.81	W27x84	-19.25	33.82
P-30	5.36	15.60	14.60	5.59	W27x84	-19.25	33.85
P-31	5.37	15.63	14.63	4.95	W27x94	-18.91	33.54
P-32	5.37	15.65	14.65	4.74	W27x94	-18.91	33.57
P-33	5.37	15.68	14.68	4.53	W27x94	-18.91	33.59
P-34	5.37	15.71	14.71	4.32	W27x94	-18.91	33.62
P-35	5.37	15.74	14.74	4.11	W27x94	-18.91	33.65
P-36	2.03	15.75	14.75	3.71	W27x94	-20.04	34.79
P-37	2.04	15.74	14.74	3.52	W27x94	-20.04	34.78
P-38	2.05	15.73	14.73	3.34	W27x94	-20.04	34.77
P-39	2.05	15.73	14.73	3.15	W27x94	-20.04	34.77
P-40	2.06	15.72	14.72	2.96	W27x94	-20.04	34.76
P-41	2.04	15.71	14.71	2.61	W27x146	-21.25	35.96
P-42	2.03	15.69	14.69	2.44	W27x146	-21.25	35.94
P-43	2.03	15.68	14.68	2.28	W27x146	-21.25	35.93
P-44	2.02	15.66	14.66	2.11	W27x146	-21.25	35.91
P-45	2.02	15.65	14.65	1.95	W27x146	-21.25	35.90
P-46	2.01	15.62	14.62	1.68	W27x146	-21.92	36.54
P-47	2.01	15.58	14.58	1.57	W27x146	-21.92	36.50
P-48	2.01	15.53	14.53	1.45	W27x146	-21.92	36.45
P-49	2.00	15.49	14.49	1.34	W27x146	-21.92	36.41
P-50	2.00	15.45	14.45	1.23	W27x146	-21.92	36.37
P-51	2.03	15.41	14.41	1.04	W27x146	-22.41	36.82
P-52	2.11	15.38	14.38	0.96	W27x146	-22.41	36.79
P-53	2.19	15.35	14.35	0.88	W27x146	-22.41	36.76
P-54	2.27	15.32	14.32	0.79	W27x146	-22.41	36.74
P-55	2.34	15.29	14.29	0.71	W27x146	-22.41	36.71
P-56	2.49	15.27	14.27	0.58	W27x146	-22.29	36.55
P-57	2.71	15.24	14.24	0.52	W27x146	-22.29	36.53

From Ramp 47A

From Wentworth Ave.

PILE LAYOUT

Pile	Offset (Ft.)	Top of Wall El.	Top of Pile Elevation	Bott. of Facing Elevation	Section	Pile Tip Elevation	Pile Length (Ft.)
P-58	2.92	15.22	14.22	0.46	W27x146	-22.29	36.51
P-59	3.14	15.20	14.20	0.40	W27x146	-22.29	36.48
P-60	3.36	15.17	14.17	0.34	W27x146	-22.29	36.46
P-61	3.46	15.15	14.15	0.33	W27x146	-22.29	36.43
P-62	3.46	15.12	14.12	0.37	W27x146	-22.29	36.41
P-63	3.46	15.09	14.09	0.41	W27x146	-22.29	36.38
P-64	3.46	15.07	14.07	0.45	W27x146	-22.29	36.35
P-65	3.46	15.04	14.04	0.49	W27x146	-22.29	36.32
P-66	3.44	15.04	14.04	0.60	W27x129	-22.65	36.69
P-67	3.44	15.07	14.07	0.68	W27x129	-22.65	36.72
P-68	3.44	15.10	14.10	0.75	W27x129	-22.65	36.75
P-69	3.44	15.13	14.13	0.83	W27x129	-22.65	36.78
P-70	3.44	15.16	14.16	0.90	W27x129	-22.65	36.81
P-71	3.44	15.19	14.19	1.08	W27x129	-22.21	36.39
P-72	3.44	15.22	14.22	1.19	W27x129	-22.21	36.42
P-73	3.44	15.25	14.25	1.30	W27x129	-22.21	36.45
P-74	3.44	15.28	14.28	1.41	W27x129	-22.21	36.48
P-75	3.44	15.31	14.31	1.51	W27x129	-22.21	36.51
P-76	3.44	15.33	14.33	1.76	W27x129	-21.56	35.89
P-77	3.44	15.36	14.36	1.91	W27x129	-21.56	35.91
P-78	3.44	15.38	14.38	2.05	W27x129	-21.56	35.94
P-79	3.44	15.40	14.40	2.19	W27x129	-21.56	35.96
P-80	3.44	15.43	14.43	2.33	W27x129	-21.56	35.98
P-81	3.46	15.48	14.48	2.77	W27x114	-22.12	36.59
P-82	3.46	15.50	14.50	2.97	W27x114	-22.12	36.62
P-83	3.46	15.53	14.53	3.16	W27x114	-22.12	36.65
P-84	3.46	15.56	14.56	3.35	W27x114	-22.12	36.68
P-85	3.46	15.59	14.59	3.58	W27x114	-21.35	35.94
P-86	3.46	15.61	14.61	3.78	W27x114	-21.35	35.96
P-87	3.47	15.63	14.63	3.97	W27x114	-21.35	35.98
P-88	3.47	15.65	14.65	4.16	W27x114	-21.35	36.00
P-89	3.47	15.67	14.67	4.32	W27x114	-21.35	36.02
P-90	3.47	15.69	14.69	4.52	W27x114	-20.38	35.08
P-91	3.47	15.71	14.71	4.69	W27x114	-20.38	35.10
P-92	3.48	15.73	14.73	4.86	W27x114	-20.38	35.12
P-93	3.48	15.75	14.75	5.03	W27x114	-20.38	35.14
P-94	3.48	15.77	14.77	5.20	W27x114	-20.38	35.16
P-95	3.52	15.77	14.77	5.51	W27x114	-19.38	34.15
P-96	3.58	15.76	14.76	5.65	W27x114	-19.38	34.14
P-97	3.64	15.75	14.75	5.80	W27x114	-19.38	34.13
P-98	3.70	15.74	14.74	5.94	W27x114	-19.38	34.12
P-99	3.76	15.73	14.73	6.08	W27x114	-19.38	34.11
P-100	4.02	15.71	14.71	6.38	W24x76	-16.32	31.04
P-101	4.21	15.69	14.69	6.54	W24x76	-16.32	31.01
P-102	4.26	15.66	14.66	6.70	W27x102	-18.36	33.03
P-103	4.50	15.61	14.61	7.11	W27x102	-18.36	32.97
P-104	4.51	15.55	14.55	7.36	W24x76	-16.32	30.88
P-105	4.41	15.50	14.50	7.62	W24x76	-16.32	30.83
P-106	4.38	15.46	14.46	8.11	W24x76	-16.32	30.79
P-107	4.42	15.43	14.43	8.34	W24x76	-16.32	30.76
P-108	4.47	15.40	14.40	8.57	W24x76	-16.32	30.73

From Wentworth Ave.

OFFSET TABLE

PT.	Station	Offset	'A'
1	17+95.22	4.47'	-0.36'
2	17+28.72	4.64'	-0.26'
3	16+78.72	4.77'	-0.20'
4	16+28.83	4.87'	0.0'
5	15+79.06	5.09'	0.29'
6	15+29.26	5.29'	0.32'
7	14+79.47	5.49'	0.41'
8	14+30.54	5.67'	0.34'
8A	14+29.68	5.63'	0.33'
9	13+79.38	4.62'	0.38'
9A	13+79.90	4.63'	0.36'
9B	13+30.13	4.60'	0.44'
9C	12+72.08	4.57'	0.21'
10	11+69.25	4.65'	NA
11	11+09.44	3.14'	NA
12	10+23.13	3.21'	NA

'A' Distance between Exist. E.O.P. and @ Wentworth Ave and Prop. E.O.P. (Negative value equates to left offset)

NOTES

- All W10 and W14 piles have drilled shaft dia = 2'-0". All W24 and W27 piles have drilled shaft dia = 3'-0", except for W27x146, which has drilled shaft dia = 3'-6".

BILL OF MATERIAL

Item	Unit	Quantity
Furnishing Soldier Piles (W Sections)	Foot	3,536
Drill/Set Soldier Piles (In Soil)	Cu. Ft.	24,136

SHEET 11 OF 24

REVISIONS	
NAME	DATE
REVISOR	6/13/06
REVISOR	7/13/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 COOK COUNTY
 STA. 3532+90.57 TO STA. 3543+57.42
 RETAINING WALL S-45S-F
 PILE LAYOUT
 S.N. 016-W978
 SCALE: NTS DRAWN BY: MTR
 DATE: JUNE 9, 2006 CHECKED BY: BLU

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d1(E)	1060	#5/2	4'-7"	
d2(E)	13	#6	17'-2"	
d3(E)	13	#6	15'-3"	
d4(E)	13	#6	13'-6"	
d5(E)	13	#6	11'-10"	
d6(E)	224	#6	5'-5"	
d7(E)	272	#5	2'-4"	
e1(E)	16	#5	23'-3"	
e2(E)	56	#5	29'-8"	
e3(E)	88	#5	32'-2"	
e4(E)	48	#5	27'-2"	
e5(E)	8	#5	27'-0"	
e6(E)	16	#5	26'-2"	
e7(E)	48	#5	24'-8"	
e8(E)	8	#5	35'-5"	
e9(E)	8	#5	32'-11"	
h1(E)	20/2	#5	23'-3"	
h2(E)	168	#5	29'-8"	
h3(E)	266	#5	32'-2"	
h4(E)	66	#5	27'-2"	
h5(E)	22	#5	27'-0"	
h6(E)	40	#5	26'-2"	
h7(E)	52	#5	24'-8"	
h8(E)	6	#5	35'-5"	
h9(E)	6	#5	32'-11"	
v1(E)	75	#5	3'-8"	
v2(E)	75	#6	6'-6"	
v3(E)	15	#5	8'-2"	
v4(E)	15	#6	13'-10"	
v5(E)	15	#5	10'-4"	
v6(E)	15	#6	16'-0"	
v7(E)	15	#5	13'-1"	
v8(E)	15	#6	18'-9"	
v9(E)	15	#5	15'-11"	
v10(E)	15	#6	21'-7"	
v11(E)	15	#5	18'-9"	
v12(E)	15	#6	24'-5"	
v13(E)	15	#5	21'-7"	
v14(E)	15	#6	27'-3"	
v15(E)	15	#5	24'-1"	
v16(E)	15	#6	29'-9"	
v17(E)	15	#5	26'-1"	
v18(E)	15	#6	31'-9"	
v19(E)	15	#5	27'-5"	
v20(E)	15	#6	33'-1"	
v21(E)	15	#5	28'-3"	
v22(E)	15	#6	33'-11"	
v23(E)	15	#5	28'-10"	
v24(E)	15	#6	34'-6"	
v25(E)	15	#5	28'-8"	
v26(E)	15	#6	34'-4"	
v27(E)	15	#5	28'-0"	
v28(E)	15	#6	33'-8"	
v29(E)	15	#5	27'-4"	
v30(E)	15	#6	33'-0"	
v31(E)	15	#5	26'-1"	
v32(E)	15	#6	31'-9"	
v33(E)	15	#5	24'-2"	
v34(E)	15	#6	29'-10"	
v35(E)	15	#5	22'-8"	
v36(E)	15	#6	28'-4"	
v37(E)	15	#5	21'-1"	
v38(E)	15	#6	26'-9"	
v39(E)	15	#5	19'-3"	
v40(E)	15	#6	24'-11"	
v41(E)	15	#5	17'-7"	
v42(E)	15	#6	23'-3"	
v43(E)	15	#5	15'-9"	
v44(E)	15	#6	21'-5"	
v45(E)	15	#5	13'-7"	
v46(E)	15	#6	19'-3"	
v47(E)	15	#5	9'-7"	
v48(E)	15	#6	7'-9"	
v49(E)	15	#5	6'-0"	
v50(E)	15	#6	4'-3"	

Bar	No.	Size	Length	Shape
v30(E)	15	#6	33'-0"	
v31(E)	15	#5	26'-1"	
v32(E)	15	#6	31'-9"	
v33(E)	13	#5	24'-2"	
v34(E)	13	#6	29'-10"	
v35(E)	15	#5	22'-8"	
v36(E)	15	#6	28'-4"	
v37(E)	15	#5	21'-1"	
v38(E)	15	#6	26'-9"	
v39(E)	14	#5	19'-3"	
v40(E)	14	#6	24'-11"	
v41(E)	12	#5	17'-7"	
v42(E)	12	#6	23'-3"	
v43(E)	12	#5	15'-9"	
v44(E)	12	#6	21'-5"	
v45(E)	13	#5	13'-7"	
v46(E)	13	#6	19'-3"	
v47(E)	13	#5	9'-7"	
v48(E)	13	#5	7'-9"	
v49(E)	13	#5	6'-0"	
v50(E)	13	#5	4'-3"	
v51(E)	224	#5	1'-8"	

Reinforcement Bars, Epoxy Coated Pound 58,690

Concrete Structures Cu. Yd. 322.7

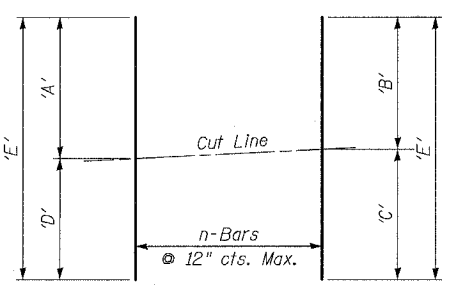
Concrete Superstructure Cu. Yd. 130.7

Chain Link Fence, 42" Attached to Structure (Special) Foot 1,000

Chain Link Gate Assembly (Special) Each 1

Rustication Finish Sq. Ft. 9,125

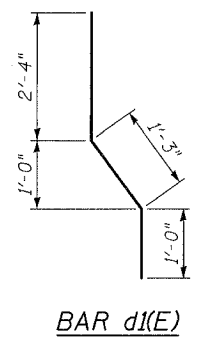
Protective Coat Sq. Yd. 1,339



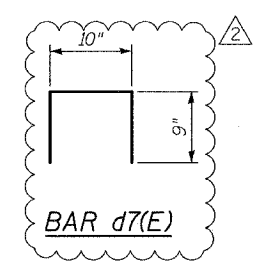
*** BAR CUTTING DIAGRAM**
 * Order bars d2(E) thru d5(E) and v3(E) thru v50(E) full length, cut as shown and use remainder where indicated.

TABLE OF DIMENSIONS

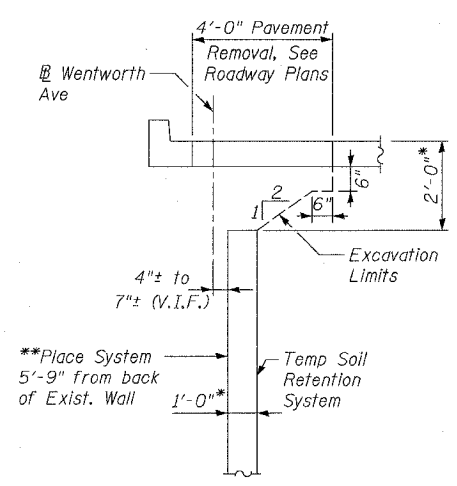
Bar	'A'	'B'	'C'	'D'	'E'	n
d2(E)	9'-1"	8'-7"	8'-7"	8'-1"	17'-2"	13
d3(E)	8'-1"	7'-8"	7'-7"	7'-2"	15'-3"	13
d4(E)	7'-2"	6'-9"	6'-9"	6'-4"	13'-6"	13
d5(E)	6'-5"	5'-11"	5'-11"	5'-5"	11'-10"	13
v3(E)	3'-8"	4'-1"	4'-1"	4'-6"	8'-2"	15
v4(E)	6'-6"	6'-11"	6'-11"	7'-4"	13'-10"	15
v5(E)	4'-6"	5'-2"	5'-2"	5'-10"	10'-4"	15
v6(E)	7'-4"	8'-0"	8'-0"	8'-8"	16'-0"	15
v7(E)	5'-10"	6'-6"	6'-7"	7'-3"	13'-1"	15
v8(E)	8'-8"	9'-4"	9'-5"	10'-1"	18'-9"	15
v9(E)	7'-3"	7'-11"	8'-0"	8'-8"	15'-11"	15
v10(E)	10'-1"	10'-9"	10'-10"	11'-6"	21'-7"	15
v11(E)	8'-8"	9'-4"	9'-5"	10'-1"	18'-9"	15
v12(E)	11'-6"	12'-2"	12'-3"	12'-11"	24'-5"	15
v13(E)	10'-1"	10'-9"	10'-10"	11'-6"	21'-7"	15
v14(E)	12'-11"	13'-7"	13'-8"	14'-4"	27'-3"	15
v15(E)	11'-6"	12'-0"	12'-1"	12'-7"	24'-1"	15
v16(E)	14'-4"	14'-10"	14'-11"	15'-5"	29'-9"	15
v17(E)	12'-7"	13'-0"	13'-1"	13'-6"	26'-1"	15
v18(E)	15'-5"	15'-10"	15'-11"	16'-4"	31'-9"	15
v19(E)	13'-6"	13'-8"	13'-9"	13'-11"	27'-5"	15
v20(E)	16'-4"	16'-6"	16'-7"	16'-9"	33'-1"	15
v21(E)	13'-11"	14'-1"	14'-2"	14'-4"	28'-3"	15
v22(E)	16'-9"	16'-11"	17'-0"	17'-2"	33'-11"	15
v23(E)	14'-4"	14'-5"	14'-5"	14'-6"	28'-10"	15
v24(E)	17'-2"	17'-3"	17'-3"	17'-4"	34'-6"	15
v25(E)	14'-6"	14'-4"	14'-4"	14'-2"	28'-8"	15
v26(E)	17'-4"	17'-2"	17'-2"	17'-0"	34'-4"	15
v27(E)	14'-2"	14'-0"	14'-0"	13'-10"	28'-0"	15
v28(E)	17'-0"	16'-10"	16'-10"	16'-8"	33'-8"	15
v29(E)	13'-10"	13'-8"	13'-8"	13'-6"	27'-4"	15
v30(E)	16'-8"	16'-6"	16'-6"	16'-4"	33'-0"	15
v31(E)	13'-6"	13'-1"	13'-0"	12'-7"	26'-1"	15
v32(E)	16'-4"	15'-11"	15'-10"	15'-5"	31'-9"	15
v33(E)	12'-6"	12'-1"	12'-1"	11'-8"	24'-2"	13
v34(E)	15'-4"	14'-11"	14'-11"	14'-6"	29'-10"	13
v35(E)	11'-8"	11'-4"	11'-4"	11'-0"	22'-8"	15
v36(E)	14'-6"	14'-2"	14'-2"	13'-10"	28'-4"	15
v37(E)	11'-0"	10'-7"	10'-6"	10'-1"	21'-1"	15
v38(E)	13'-10"	13'-5"	13'-4"	12'-11"	26'-9"	15
v39(E)	10'-1"	9'-8"	9'-7"	9'-2"	19'-3"	14
v40(E)	12'-11"	12'-6"	12'-5"	12'-0"	24'-11"	14
v41(E)	9'-2"	8'-10"	8'-9"	8'-5"	17'-7"	12
v42(E)	12'-0"	11'-8"	11'-7"	11'-3"	23'-3"	12
v43(E)	8'-5"	7'-11"	7'-10"	7'-4"	15'-9"	12
v44(E)	11'-3"	10'-9"	10'-8"	10'-2"	21'-5"	12
v45(E)	7'-4"	6'-10"	6'-9"	6'-3"	13'-7"	13
v46(E)	10'-2"	9'-8"	9'-7"	9'-1"	19'-3"	13
v47(E)	5'-3"	4'-10"	4'-9"	4'-4"	9'-7"	13
v48(E)	4'-4"	3'-11"	3'-10"	3'-5"	7'-9"	13
v49(E)	3'-5"	3'-0"	3'-0"	2'-7"	6'-0"	13
v50(E)	2'-7"	2'-2"	2'-1"	1'-8"	4'-3"	13



BAR d1(E)



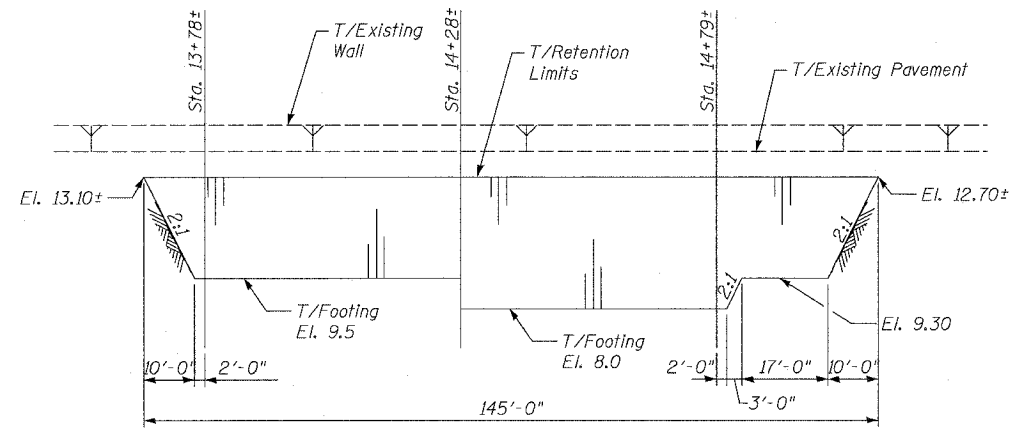
BAR d7(E)



SECTION X-X

** Contractor should be aware of existing footing. See removal cross sections.

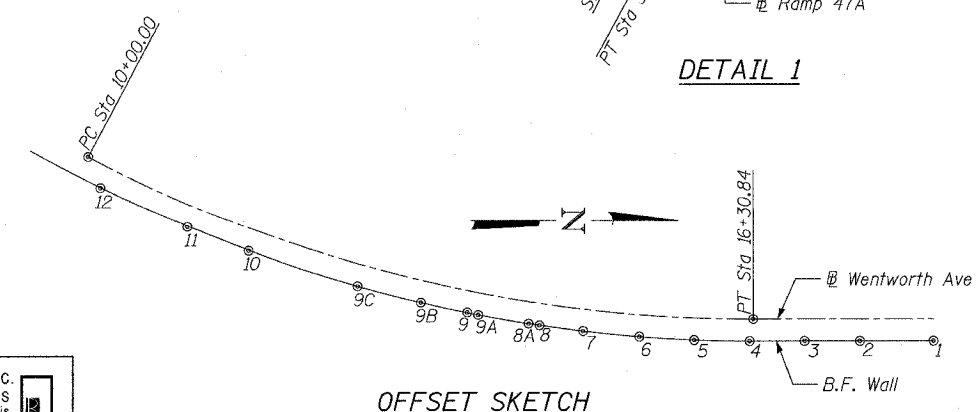
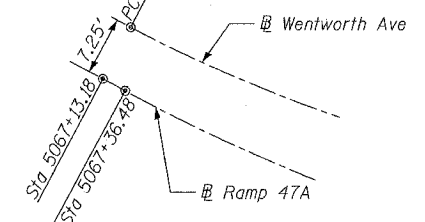
* Assumed dimensions. Contractor shall adjust as necessary based on actual design.



TEMPORARY SOIL RETENTION SYSTEM

A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

DETAIL 1



OFFSET SKETCH

Points Shown are Wall Joints

NOTES

1. Build wall parallel to @ Wentworth Ave. & at constant offset beyond Pt. 12 U.N.O. (Chords)
2. Utilize Back Face of existing wall as W.P. for top modification.
3. Pts 8A, 9A, etc. are on existing wall to be removed.

SHEET 12 OF 24

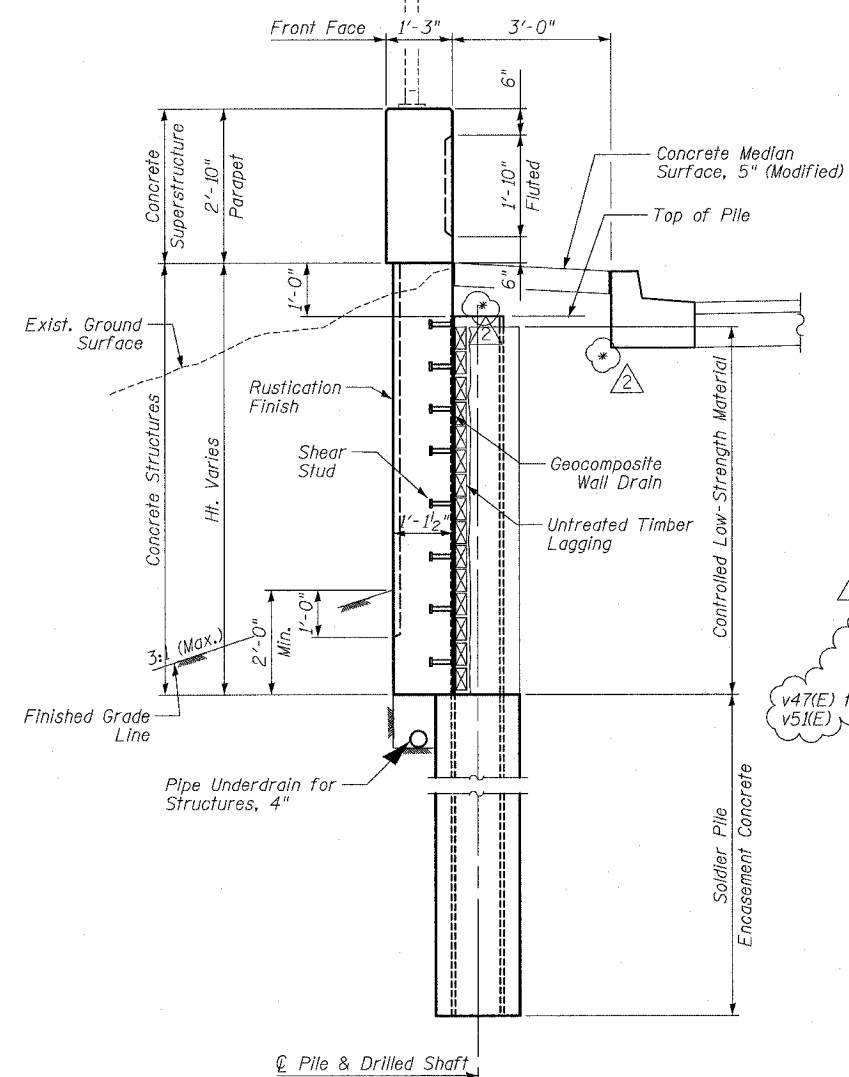
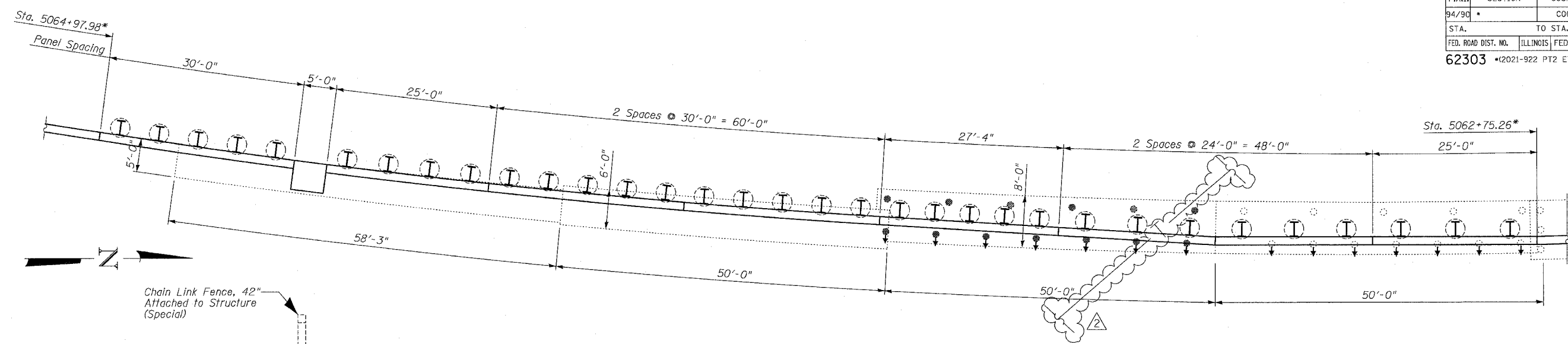
REVISIONS	
NAME	DATE
REVISOR	6/14/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 COOK COUNTY
 STA. 3532+90.57 TO STA. 3543+57.42
 RETAINING WALL S-45S-F
 BILL OF MATERIAL
 S.N. 016-W978

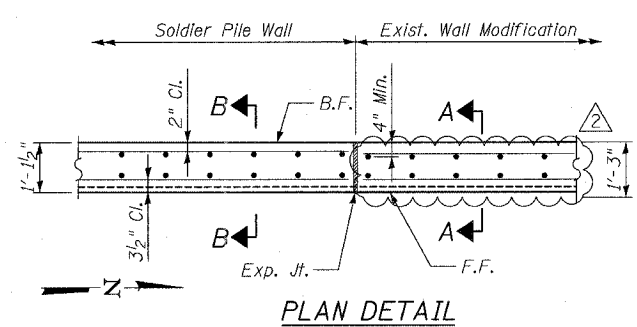
SCALE: NTS DRAWN BY: MTR
 DATE: JUNE 9, 2006 CHECKED BY: BLU

BOWMAN, BARRETT & ASSOCIATES INC.
 CONSULTING ENGINEERS
 Chicago, Illinois
 312.228.0100
 www.bbainc.com

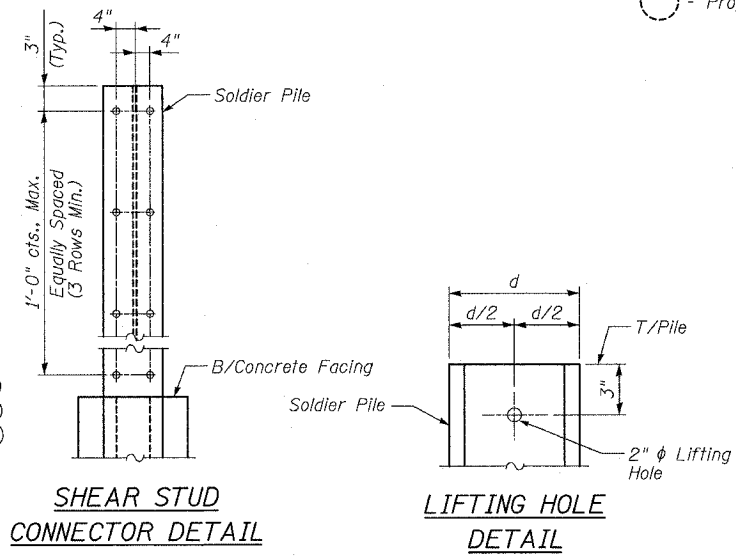
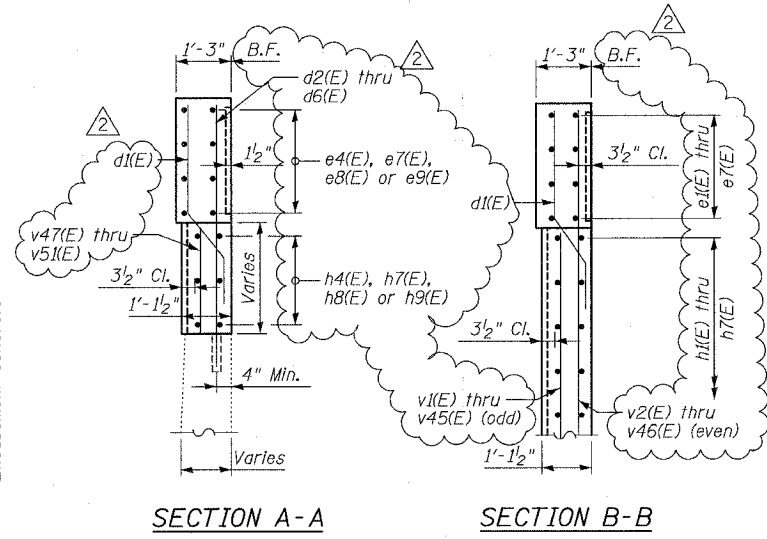
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	427
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62303		*(2021-922 PT2 ETC 2324.6-1P) R-11		



PILE REMOVAL LAYOUT
* Ramp 47A Stationing



- LEGEND:**
- - Existing Pile to be removed as part of "Removal of Existing Structures, No.2"
 - - Existing Pile to be Extracted
 - - Existing Pile to Remain
 - ↘ - Indicates 1 (Horiz) :3 (Vert) Batter Pile
 - - Proposed Soldier Pile Encasement



SHEET 16 OF 24

REVISIONS	
NAME	DATE
REVISION 1	6/14/06
REVISION 2	7/13/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
COOK COUNTY
STA. 3532+90.57 TO STA. 3543+57.42
RETAINING WALL S-45S-F
PILE REMOVAL LAYOUT & TYP. DETAILS
S.N. 016-W978
SCALE: NTS
DATE: JUNE 9, 2006
DRAWN BY: MTR
CHECKED BY: BLU

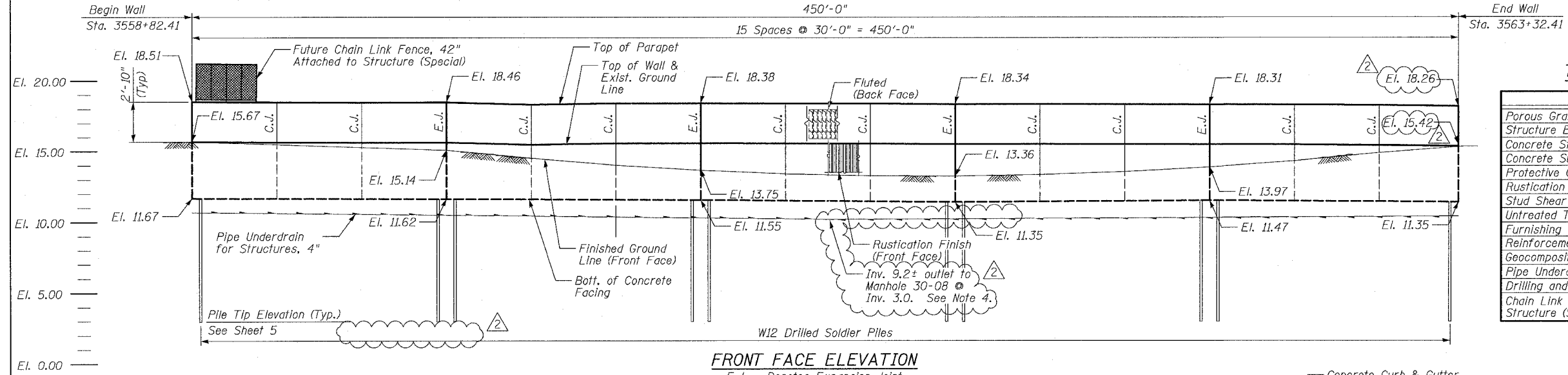
BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbainc.com

TYP. SECTION THRU PROPOSED WALL
See Specific Station Sections for Modifications to this Section
*In areas where curb and gutter are directly above pile, clip pile as needed to give adequate clearance below curb and gutter.

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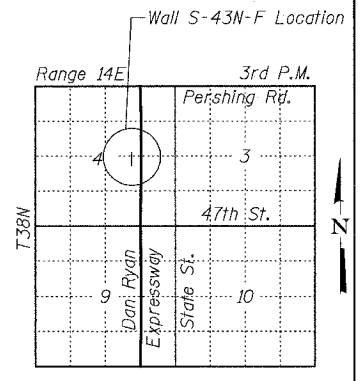
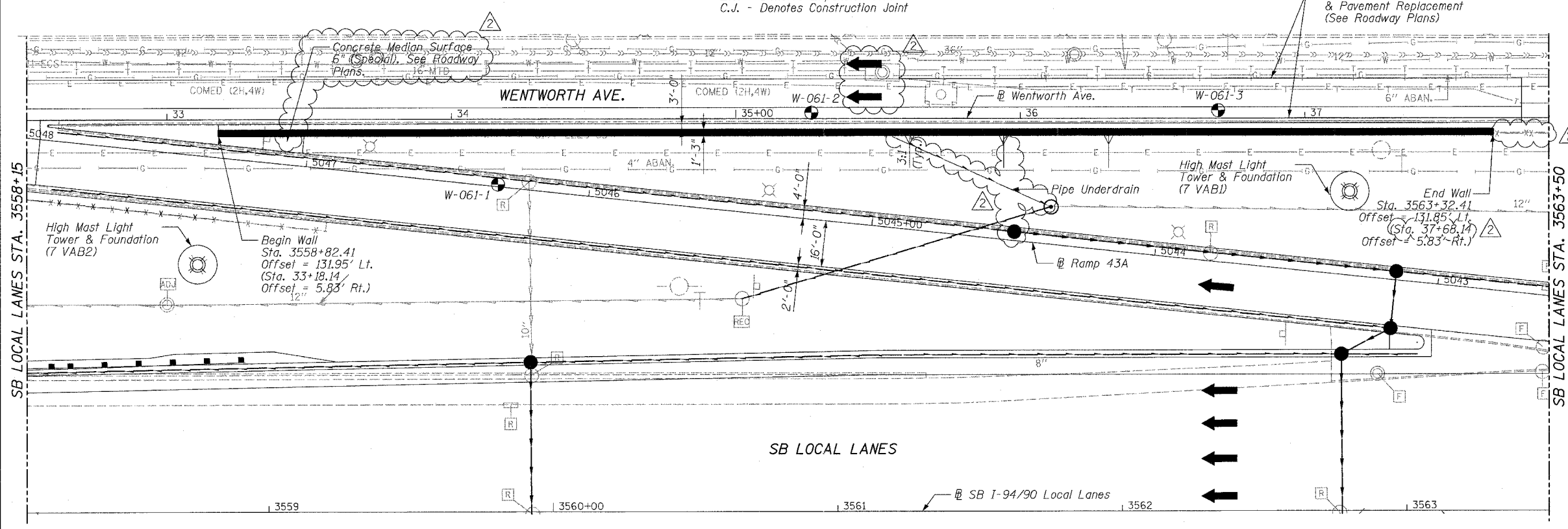
F.A.I.	SECTION	COUNTY	TOTAL SHEET NO.
94/90	*	COOK	588 436
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
62303	*2021-922 PT2 ETC 2324.6-1P1 R-11		

Benchmark: BM No. 3527
 "X" Cut on Northerly flange bolt of fire hydrant at the NW corner of Root St. and Wentworth Ave. El. 15.63
 All elevations are based on the Chicago City Datum (C.C.D.)



TOTAL BILL OF MATERIAL

Item	Unit	Quantity
Porous Granular Embankment (Special)	Cu. Yd.	34.72
Structure Excavation	Cu. Yd.	129
Concrete Structures	Cu. Yd.	73.6
Concrete Superstructure	Cu. Yd.	257.2
Protective Coat	Sq. Yd.	292
Rustication Finish	Sq. Ft.	1,681
Stud Shear Connectors	Each	360
Untreated Timber Lagging	Sq. Ft.	1,363
Furnishing Soldier Piles (W Section)	Foot	1,254
Reinforcement Bars, Epoxy Coated	Pound	17,670
Geocomposite Wall Drain	Sq. Yd.	12
Pipe Underdrains for Structures 4"	Foot	505
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	3,951
Chain Link Fence, 42" Attached to Structure (Special)	Foot	448



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- Notes:
- Offsets given to Front Face of Wall. Station and offsets in parentheses are along Frontage Road or ramp.
 - HMLT, foundations and work pads by others. See Special Provisions for Contractor Cooperation.
 - Min. Facing in contact with soldier pile shall be 3'-0".

- Coordinate pipe underdrain outlet with Drainage Contractor. Outlet shall slope 1% min. See Drainage Plans. Cost included with Pipe Underdrains for Structures, 4".
- See Sheet 5 for PGL along @ Ramp 43A.

- LEGEND**
- Soil Boring Location
 - Proposed Drainage Structure
 - High Mast Lighting Foundation and Tower (See Notes)
 - Proposed Underdrain
 - Proposed Storm Sewer

DESIGN SPECIFICATIONS
 2002 AASHTO

DESIGN STRESSES

FIELD UNITS
 f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 fy = 36,000 psi (M270 Gr 36) Soldier Piles

REVISIONS

NAME	DATE
REVISOR	6/21/06
ADDENDUM 2	8/04/06

SHEET 1 OF 9

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

**RETAINING WALL S-43N-F
 GENERAL PLAN AND ELEVATION**

SCALE: NTS
 DATE: JUNE 9, 2006

DRAWN BY: LAM
 CHECKED BY: BLU

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	437
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
62303		*12021-922 PT2 ETC 2324.6-1P1 R-11		

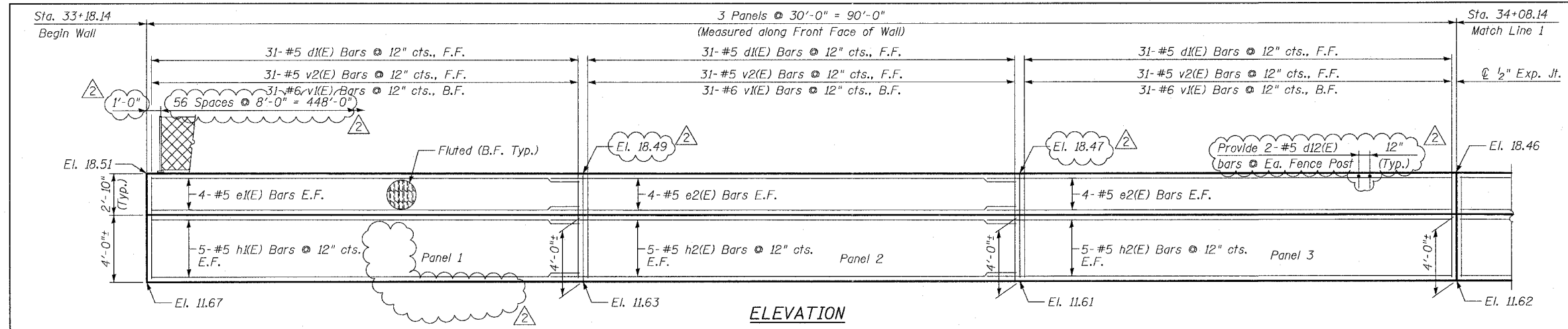
NOTES:

1. Stationing given is @ S. Wentworth Ave. stationing.
2. Facing in Plan Views is scaled 1:2 on an X:Y scale to show reinforcement.
3. See details for reinforcing bar clearances.
4. No rustication finish on front face of Panels 1, 2 & 3.

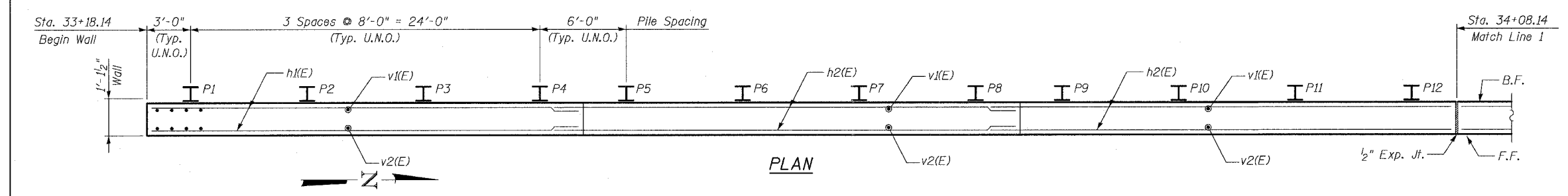
F.F. - denotes Front Face
 B.F. - denotes Back Face
 E.F. - denotes Each Face

MIN BAR LAP

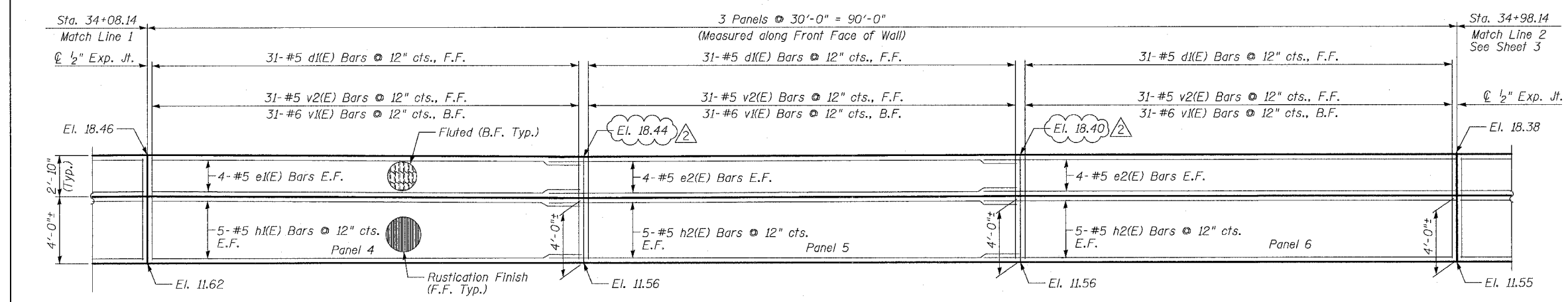
- #5 - 2'-2"
- #6 - 2'-7"



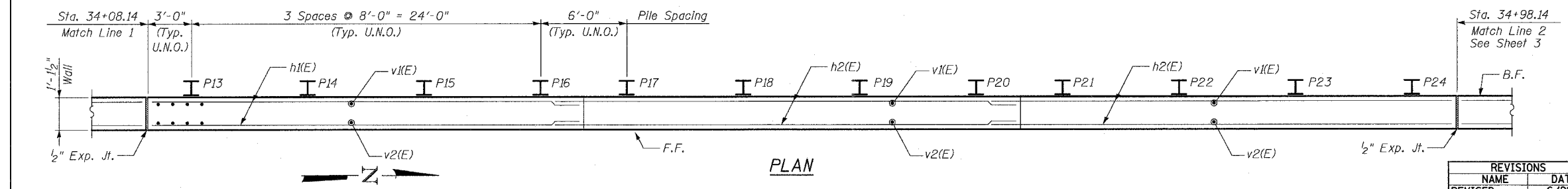
ELEVATION



PLAN



ELEVATION



PLAN

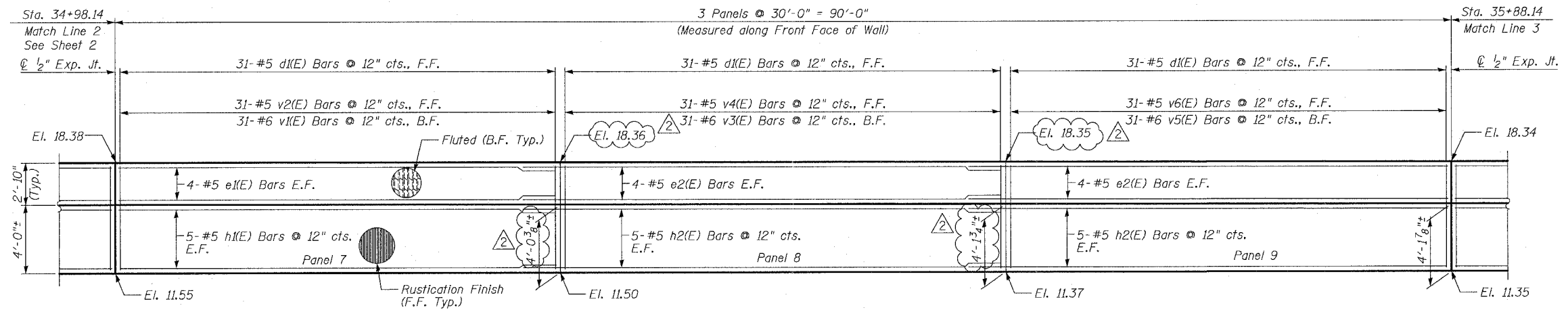
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REVISIONS	
NAME	DATE
REVISOR	6/21/06
ADDENDUM 2	8/04/06

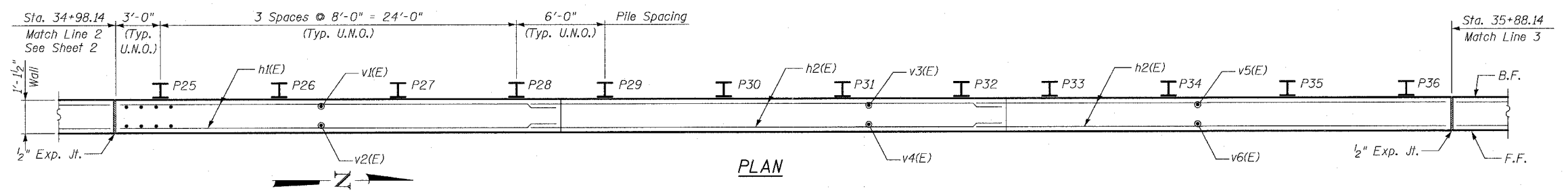
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 RETAINING WALL S-43N-F
 WALL DETAILS 1
 SCALE: NTS
 DATE: JUNE 9, 2006
 DRAWN BY: KMW
 CHECKED BY: BLU

14448 7/14/06

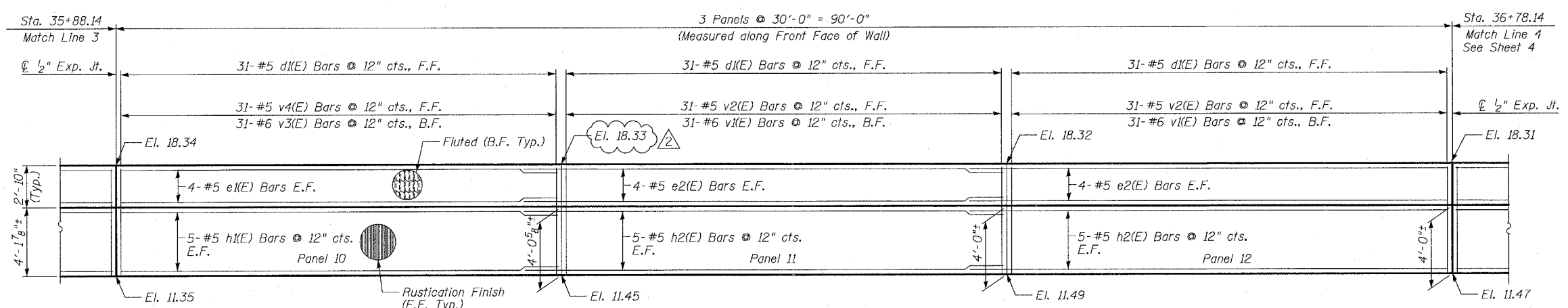
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	438
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62303 • (2021-922 PT2 ETC 2324.6-1P) R-11				



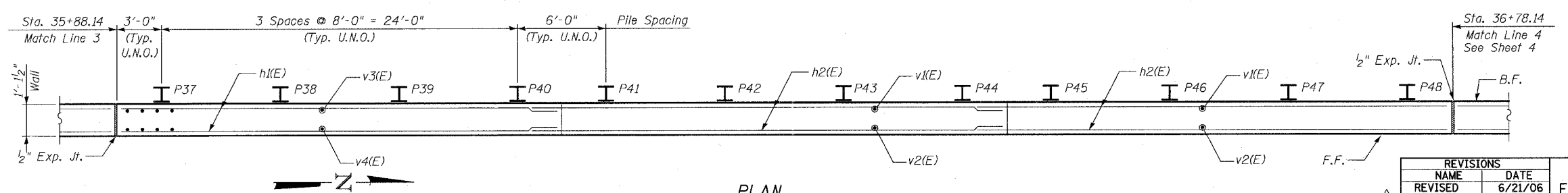
ELEVATION



PLAN



ELEVATION



PLAN

NOTES:

1. Stationing given is @ S. Wentworth Ave. stationing.
2. Facing in Plan Views is scaled 1:2 on an X:Y scale to show reinforcement.
3. See details for reinforcing bar clearances.

F.F. - denotes Front Face
 B.F. - denotes Back Face
 E.F. - denotes Each Face

MIN BAR LAP

#5 - 2'-2"
 #6 - 2'-7"

REVISIONS	
NAME	DATE
REVISED	6/21/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

RETAINING WALL S-43N-F
 WALL DETAILS 2

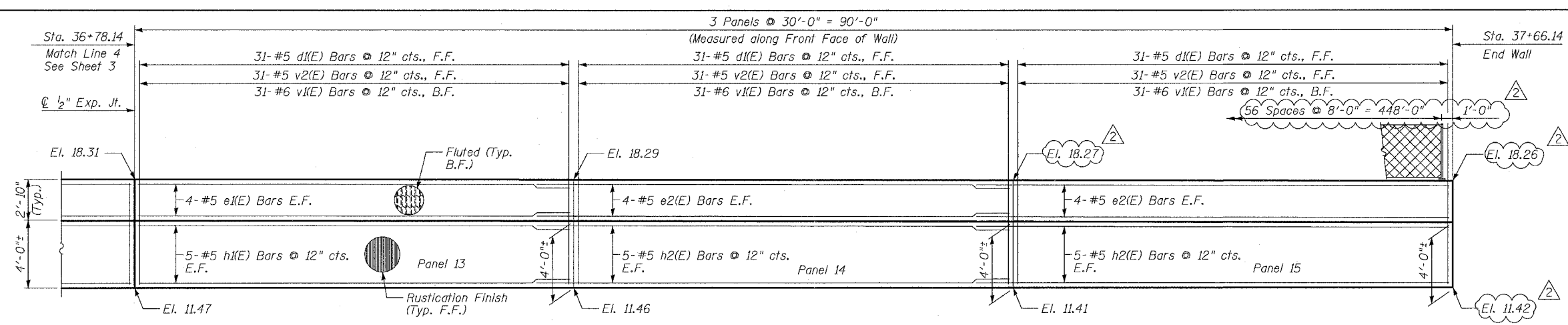
SCALE: NTS
 DATE: JUNE 9, 2006

DRAWN BY: MTR
 CHECKED BY: BLU

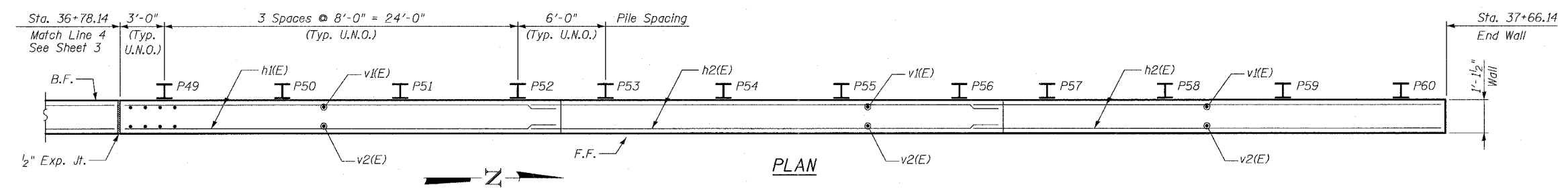
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 Chicago, Illinois
 312.228.0100
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I:\PROJECTS\94\90\WALL\62303\FINAL\62303-438.dwg

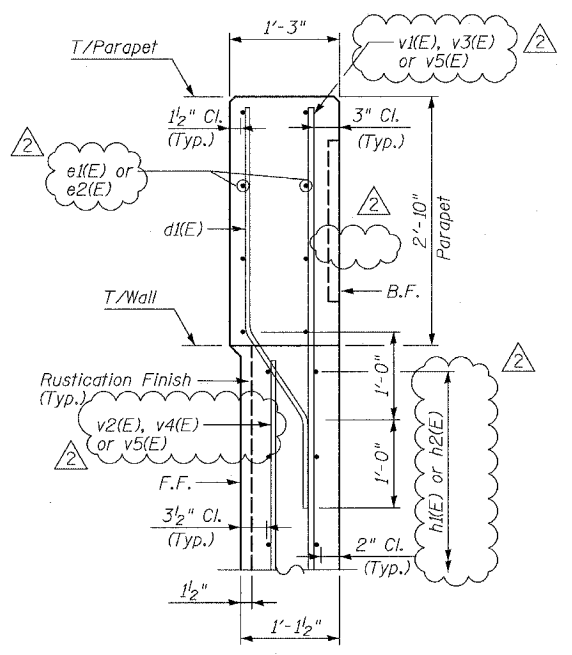
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	439
STA.		TO STA.		
62303		*I2021-922 PT2 ETC 2324.6-1P) R-11		



ELEVATION



PLAN



PARAPET DETAIL

- NOTES:**
1. Stationing given is @ S. Wentworth Ave. stationing.
 2. Facing in Plan Views is scaled 1:2 on an X:Y scale to show reinforcement.
 3. See details for reinforcing bar clearances.
 4. No rustication on Front Face of Panel 15.

F.F. - denotes Front Face
 B.F. - denotes Back Face
 E.F. - denotes Each Face

MIN BAR LAP
 #5 - 2'-2"
 #6 - 2'-7"

SHEET 4 OF 9

REVISIONS	
NAME	DATE
REVISOR	6/21/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 RETAINING WALL S-43N-F
 WALL DETAILS 3
 SCALE: NTS
 DATE: JUNE 9, 2006
 DRAWN BY: MTR
 CHECKED BY: BLU

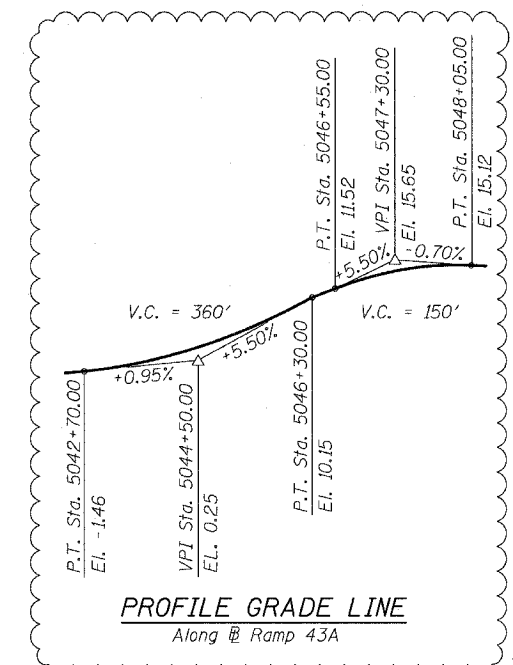
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I-4652 8/2/2006

PILE LAYOUT

Pile	Offset* (Ft.)	Top of Wall El.	Top of Pile Elevation	Bott. of Facing Elevation	Section	Pile Tip Elevation	Pile Length (Ft.)
P-1	3.98	15.67	14.67	11.66	W12x40	-4.53	19.13
P-2	3.98	15.66	14.66	11.66	W12x40	-4.53	19.12
P-3	3.98	15.65	14.65	11.65	W12x40	-4.53	19.11
P-4	3.98	15.64	14.64	11.64	W12x40	-4.53	19.09
P-5	3.99	15.63	14.63	11.63	W12x40	-4.55	19.12
P-6	3.99	15.63	14.63	11.62	W12x40	-4.55	19.11
P-7	3.99	15.62	14.62	11.62	W12x40	-4.55	19.10
P-8	3.99	15.61	14.61	11.62	W12x40	-4.55	19.10
P-9	3.99	15.61	14.61	11.61	W12x40	-5.02	19.63
P-10	3.99	15.62	14.62	11.61	W12x40	-5.02	19.63
P-11	3.99	15.62	14.62	11.62	W12x40	-5.02	19.63
P-12	3.99	15.62	14.62	11.62	W12x40	-5.02	19.64
P-13	3.99	15.62	14.62	11.61	W12x40	-5.59	20.20
P-14	3.99	15.60	14.60	11.60	W12x40	-5.59	20.19
P-15	3.99	15.59	14.59	11.59	W12x40	-5.59	20.17
P-16	3.99	15.57	14.57	11.58	W12x40	-5.59	20.16
P-17	4.00	15.56	14.56	11.56	W12x40	-6.05	20.62
P-18	4.00	15.56	14.56	11.56	W12x40	-6.05	20.62
P-19	4.00	15.56	14.56	11.56	W12x40	-6.05	20.61
P-20	4.00	15.56	14.56	11.56	W12x40	-6.05	20.61
P-21	4.00	15.56	14.56	11.55	W12x40	-7.36	21.92
P-22	4.00	15.55	14.55	11.55	W12x40	-7.36	21.91
P-23	4.00	15.55	14.55	11.55	W12x40	-7.36	21.91
P-24	4.00	15.55	14.55	11.55	W12x40	-7.36	21.91
P-25	4.00	15.55	14.55	11.54	W12x40	-7.61	22.16
P-26	4.00	15.55	14.55	11.53	W12x40	-7.61	22.15
P-27	4.00	15.55	14.55	11.52	W12x40	-7.61	22.15
P-28	4.00	15.54	14.54	11.52	W12x40	-7.61	22.15
P-29	4.01	15.54	14.54	11.48	W12x40	-7.74	22.28
P-30	4.01	15.53	14.53	11.46	W12x40	-7.74	22.27
P-31	4.01	15.52	14.52	11.43	W12x40	-7.74	22.26
P-32	4.01	15.51	14.51	11.41	W12x40	-7.74	22.25
P-33	4.01	15.51	14.51	11.37	W12x40	-7.76	22.27
P-34	4.01	15.51	14.51	11.37	W12x40	-7.76	22.27
P-35	4.01	15.51	14.51	11.36	W12x40	-7.76	22.27
P-36	4.01	15.51	14.51	11.36	W12x40	-7.76	22.26
P-37	4.01	15.51	14.51	11.37	W12x40	-7.15	21.65
P-38	4.01	15.51	14.51	11.39	W12x40	-7.15	21.65
P-39	4.01	15.51	14.51	11.40	W12x40	-7.15	21.65
P-40	4.01	15.51	14.51	11.42	W12x40	-7.15	21.65
P-41	4.02	15.50	14.50	11.45	W12x40	-7.05	21.56
P-42	4.02	15.50	14.50	11.46	W12x40	-7.05	21.55
P-43	4.02	15.50	14.50	11.47	W12x40	-7.05	21.55
P-44	4.02	15.49	14.49	11.48	W12x40	-7.05	21.55
P-45	4.02	15.49	14.49	11.49	W12x40	-6.85	21.34
P-46	4.02	15.49	14.49	11.48	W12x40	-6.85	21.33
P-47	4.02	15.48	14.48	11.48	W12x40	-6.85	21.33
P-48	4.02	15.48	14.48	11.48	W12x40	-6.85	21.33
P-49	4.02	15.47	14.47	11.47	W12x40	-6.53	21.00
P-50	4.02	15.47	14.47	11.47	W12x40	-6.53	21.00
P-51	4.02	15.47	14.47	11.46	W12x40	-6.53	20.99
P-52	4.02	15.46	14.46	11.46	W12x40	-6.53	20.99
P-53	4.03	15.46	14.46	11.45	W12x40	-6.10	20.56
P-54	4.03	15.45	14.45	11.44	W12x40	-6.10	20.55
P-55	4.03	15.43	14.43	11.43	W12x40	-6.10	20.53
P-56	4.03	15.42	14.42	11.42	W12x40	-6.10	20.52
P-57	4.03	15.41	14.41	11.40	W12x40	-5.56	19.97
P-58	4.03	15.39	14.39	11.39	W12x40	-5.56	19.95
P-59	4.03	15.37	14.37	11.38	W12x40	-5.56	19.93
P-60	4.03	15.35	14.35	11.37	W12x40	-5.56	19.91

*Offset from @ Wentworth Ave.



NOTES

1. All piles have drilled shaft dia = 2'-0".

BILL OF MATERIAL

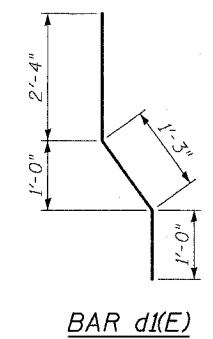
Item	Unit	Quantity
Furnishing Soldier Piles (W Sections)	Foot	1,254
Drill/Set Soldier Piles (In Soil)	Cu. Ft.	(3,951)

SHEET 5 OF 9

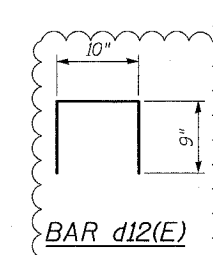
<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>NAME</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>REVISOR</td> <td>06/15/06</td> </tr> <tr> <td>ADDENDUM 2</td> <td>8/04/06</td> </tr> </tbody> </table>	REVISIONS		NAME	DATE	REVISOR	06/15/06	ADDENDUM 2	8/04/06	ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 94/90 (DAN RYAN EXPRESSWAY) GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES) RETAINING WALL S-43N-F PILE LAYOUT SCALE: NTS DATE: JUNE 9, 2006 DRAWN BY: MTR CHECKED BY: BLU
	REVISIONS								
NAME	DATE								
REVISOR	06/15/06								
ADDENDUM 2	8/04/06								

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
d1(E)	465	#5	4'-7"	[Diagram]	
d12(E)	114	#5	2'-4"		
e1(E)	40	#5	29'-8"	—	
e2(E)	80	#5	32'-2"	—	
h1(E)	50	#5	29'-8"	—	
h2(E)	100	#5	32'-2"	—	
v1(E)	372	#6	6'-6"	—	
v2(E)	372	#5	3'-8"	—	
v3(E)	62	#6	6'-7"	—	
v4(E)	62	#5	3'-9"	—	
v5(E)	31	#6	6'-8"	—	
v6(E)	31	#5	3'-10"	—	
Reinforcement Bars, Epoxy Coated				Pound	17,670
Concrete Structures				Cu. Yd.	73.6
Concrete Superstructure				Cu. Yd.	57.2
Chain Link Fence, 42" Attached to Structure (Special)				Foot	448
Rustication Finish				Sq. Ft.	1,681
Protective Coat				Sq. Yd.	292

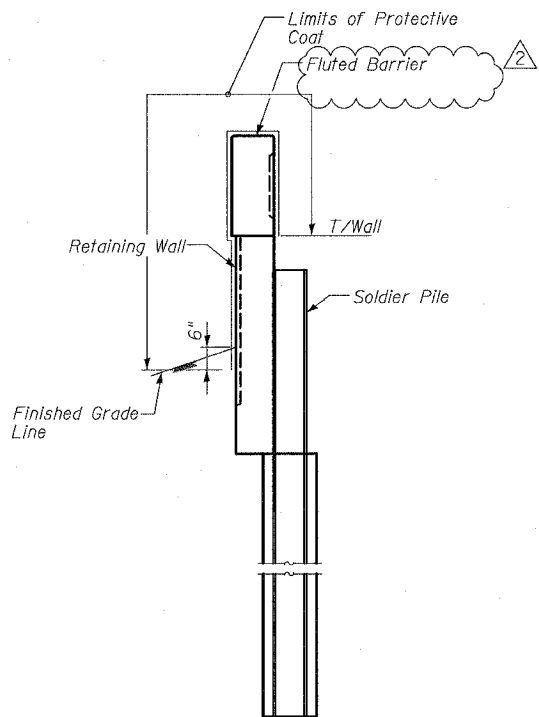


BAR d1(E)



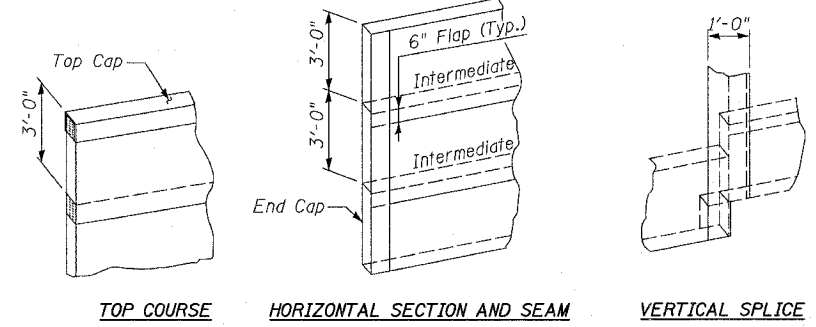
BAR d12(E)

- NOTES:**
- For excavations and/or embankments outside limits indicated see Roadway Plans and schedules.
 - Provide Porous Granular Embankment (Special) behind wall (2'-0" min.) from existing or excavated ground line to bottom of Concrete Median Survice 5" (Modified).

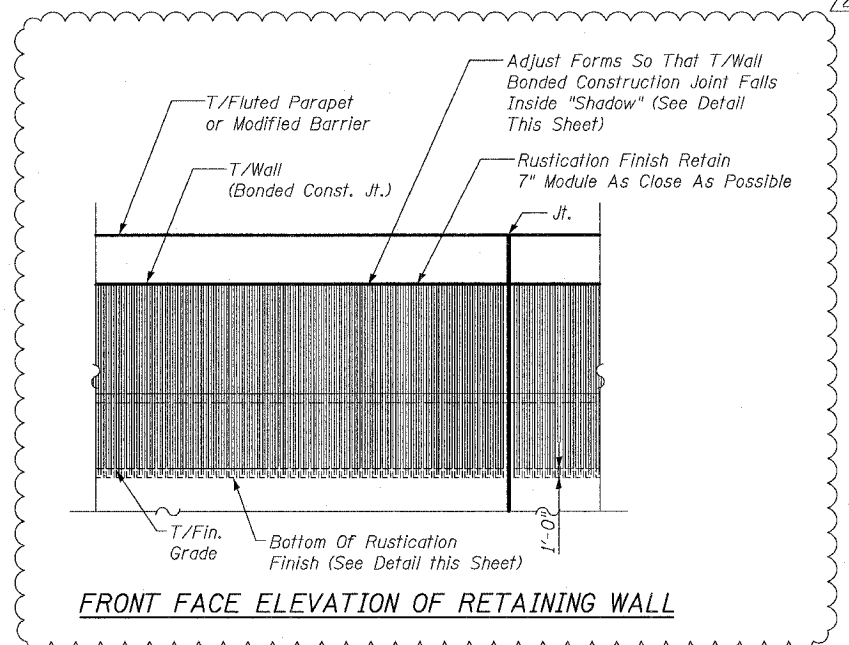


DETAIL OF LIMITS OF PROTECTIVE COAT

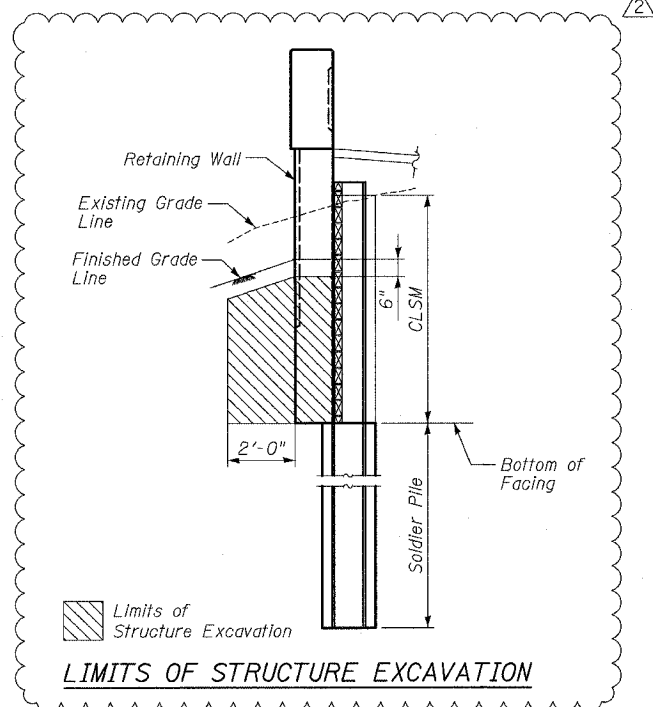
Apply Protective Coat to Front Face only when less than 25'-0" to Ramp E.O.P.



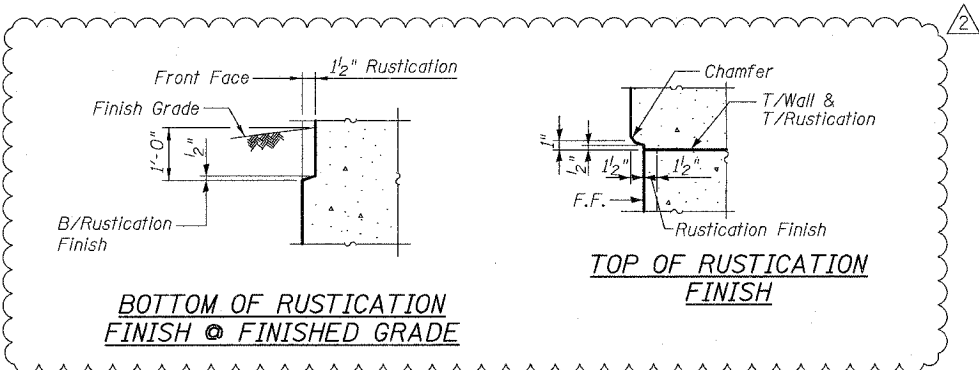
GEOCOMPOSITE WALL DRAIN DETAILS



FRONT FACE ELEVATION OF RETAINING WALL



LIMITS OF STRUCTURE EXCAVATION



BOTTOM OF RUSTICATION FINISH @ FINISHED GRADE

TOP OF RUSTICATION FINISH

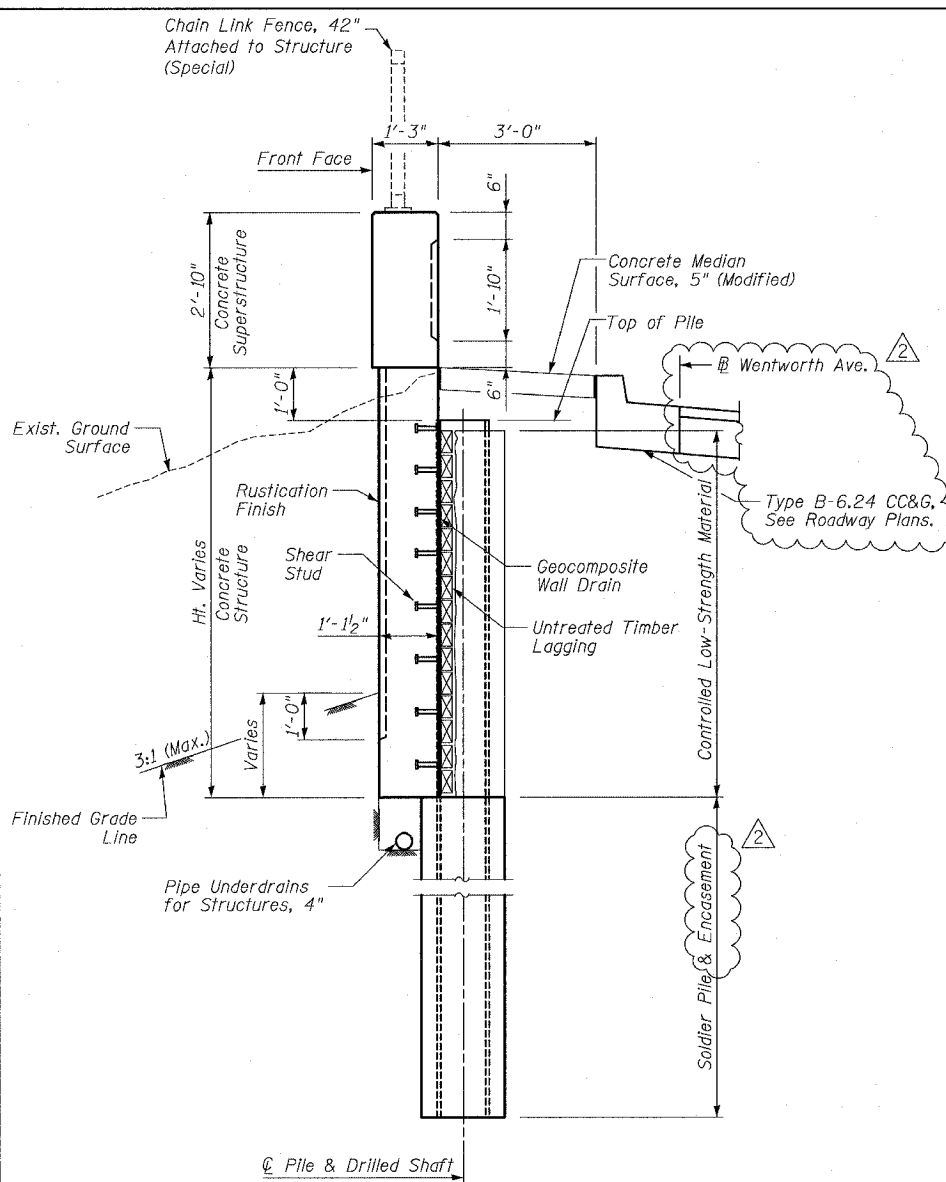
REVISIONS	
NAME	DATE
REVISED	6/21/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 RETAINING WALL S-43N-F
 BILL OF MATERIAL & DETAILS

SCALE: NTS
 DATE: JUNE 9, 2006

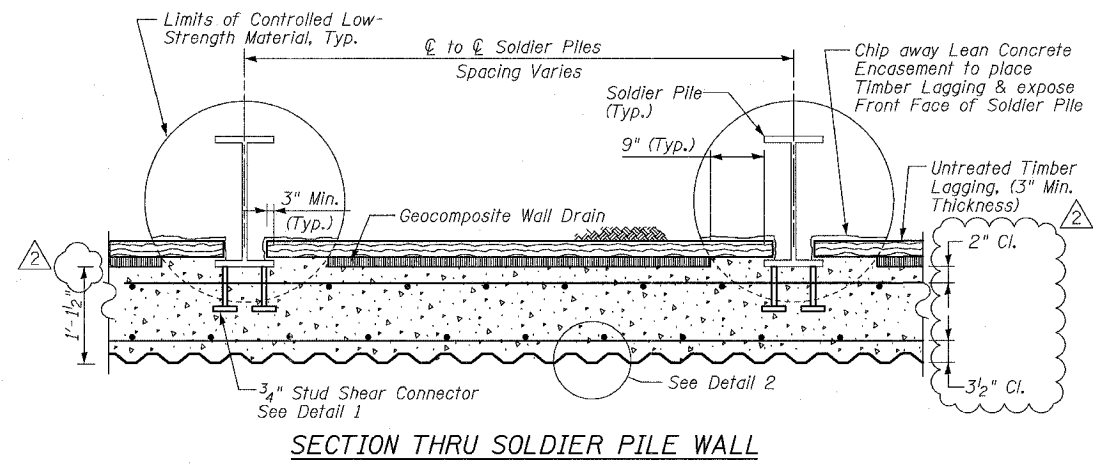
DRAWN BY: MTR
 CHECKED BY: BLU

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	442
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	*I2021-922 PT2 ETC 2324.6-1PI R-11			

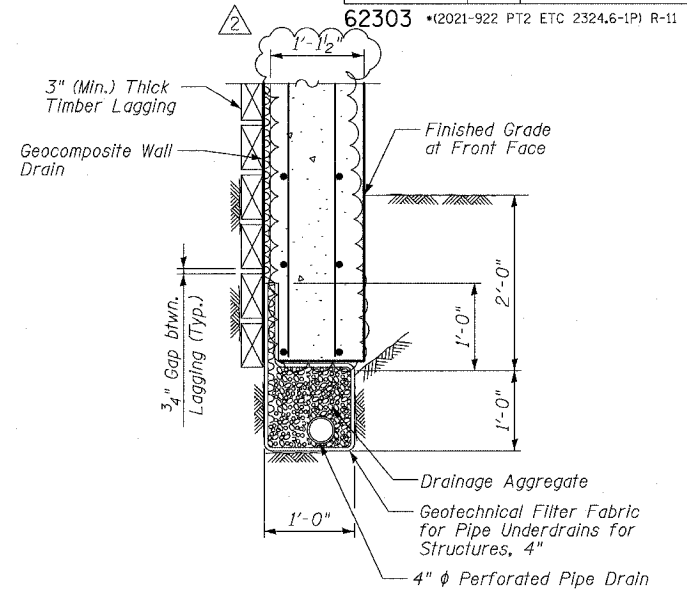
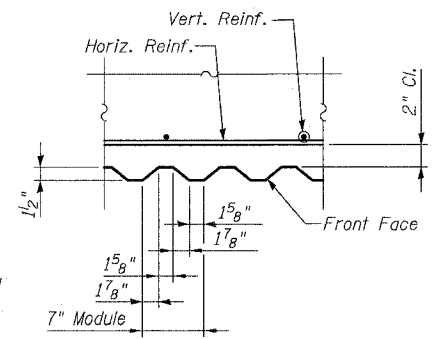
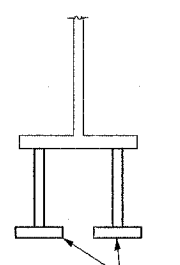


TYP. SECTION THRU PROPOSED WALL

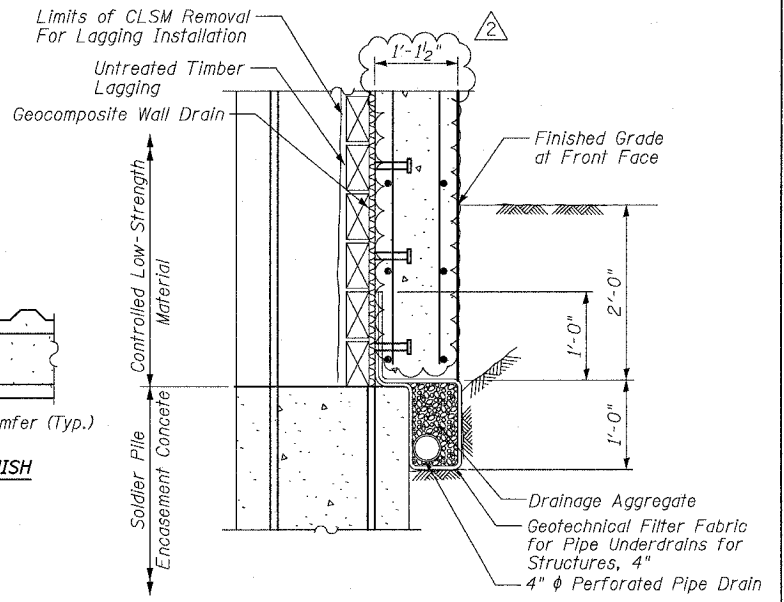
See section thru parapet for reinforcement bar details.



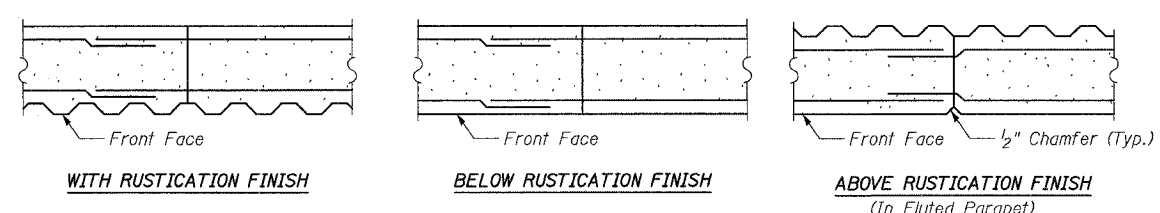
SECTION THRU SOLDIER PILE WALL



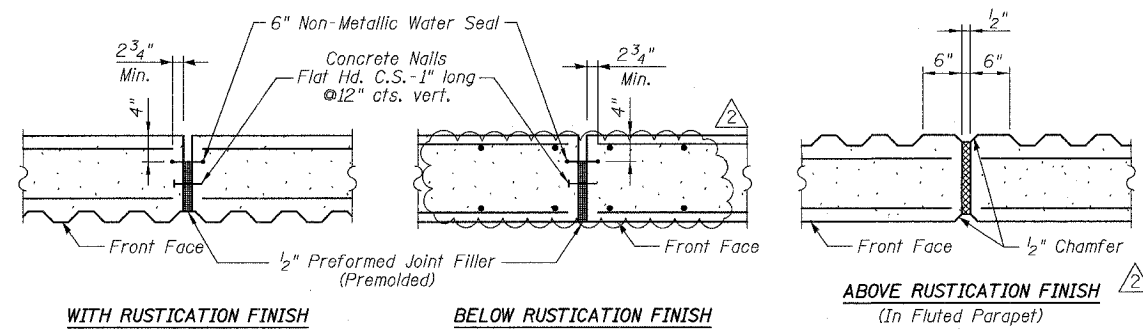
PIPE UNDERDRAIN DETAIL BETWEEN SOLDIER PILES



PIPE UNDERDRAIN DETAIL AT SOLDIER PILES



CONSTRUCTION JOINT DETAILS



EXPANSION JOINT DETAILS

Cost of P.J.F., Water Seal and Concrete Nails included with Concrete Structures.

SHEET 7 OF 9

REVISIONS	
NAME	DATE
REVISED	06/21/06
ADDENDUM 2	8/04/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 RETAINING WALL S-43N-F
 MISCELLANEOUS DETAILS

SCALE: NTS
 DATE: JUNE 9, 2006

DRAWN BY: MTR
 CHECKED BY: BLU

BOWMAN, BARRETT & ASSOCIATES INC.
 CONSULTING ENGINEERS
 Chicago, Illinois
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8/2/2006 2:44:45 PM

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	457A
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62303	(2021-922 PT2 ETC 2324.6-1P)	R-11		

TRANSITION REINF. SCHEDULE

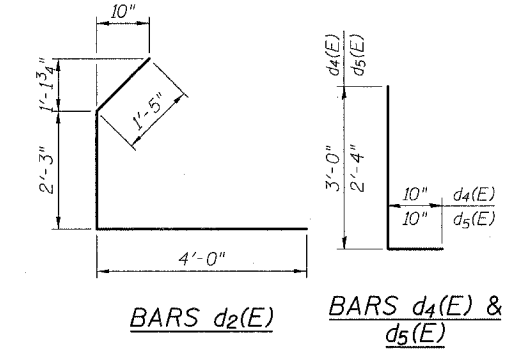
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- T2: 32-#6 d₃(E) & d₄(E) bars @ 12" cts. F.F.
- T3: 11-#6 h₁(E) bars @ 12" cts.
- T4: 4-#4 h₁(E) bars @ 12" cts. (Bottom of Ramp Shoulder)
- T5: 4-#6 d₅(E) bars @ 12" cts.
- T6: 3-#4 h₂(E) bars @ 12" cts.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d ₁ (E)	32	#6	3'-10"	—
d ₂ (E)	32	#6	7'-8"	—
d ₃ (E)	32	#5	3'-9"	—
d ₄ (E)	32	#5	3'-10"	—
d ₅ (E)	4	#5	3'-2"	—
h ₁ (E)	15	#4	29'-8"	—
h ₂ (E)	3	#4	3'-3"	—
Concrete Superstructure		Cu. Yd.	9.6	
Reinforcement Bars, Epoxy Coated		Pound	1,130	
Protective Coat		Sq. Yd.	36	

MIN. BAR LAP

#6 2'-7"



NOTES

1. F.F. and B.F. denote Front Face and Back Face of transition, respectively.
2. See Roadway Plans for details regarding Ramp Shoulder construction.
3. Contractor is responsible for maintaining stability of Ramp Roadway during construction of Transition.
4. See Roadway Plans for details of PCC Shoulder, 14" (Special) & Concrete Barrier, Type F (Special) and Type 1F 32" Height (Special).
5. Retaining Wall/Barrier Transition shall be paid as "Concrete Superstructure", "Reinforcement Bars, Epoxy Coated" and "Protective Coat".

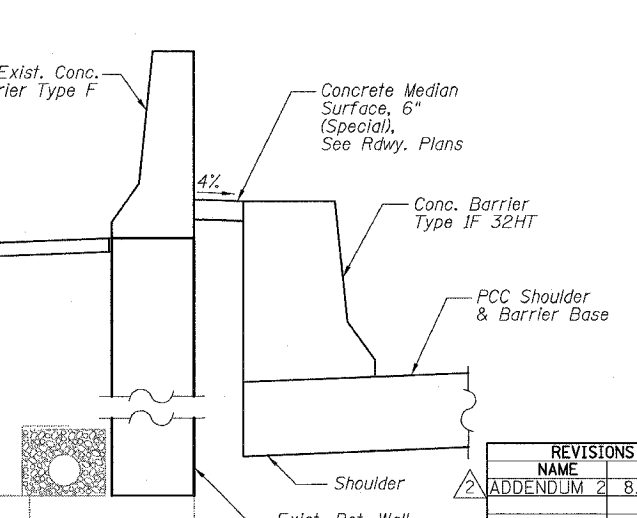
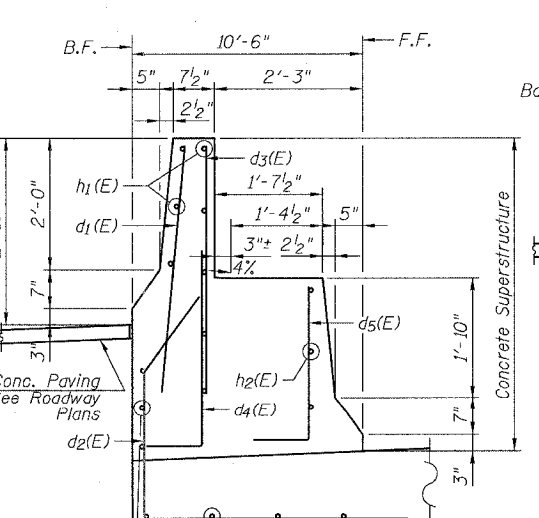
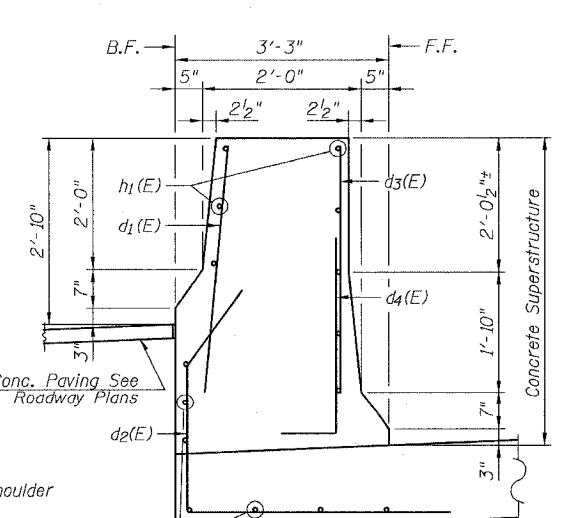
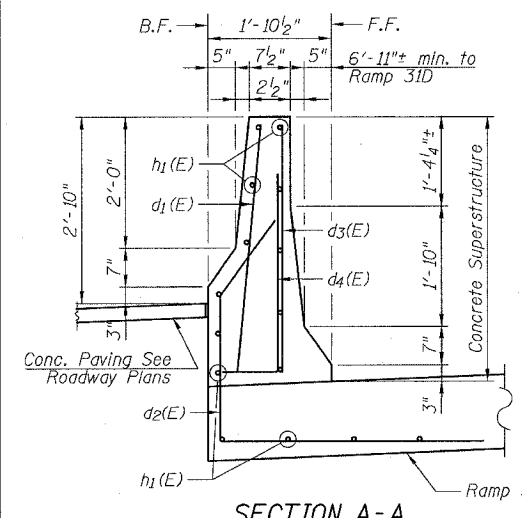
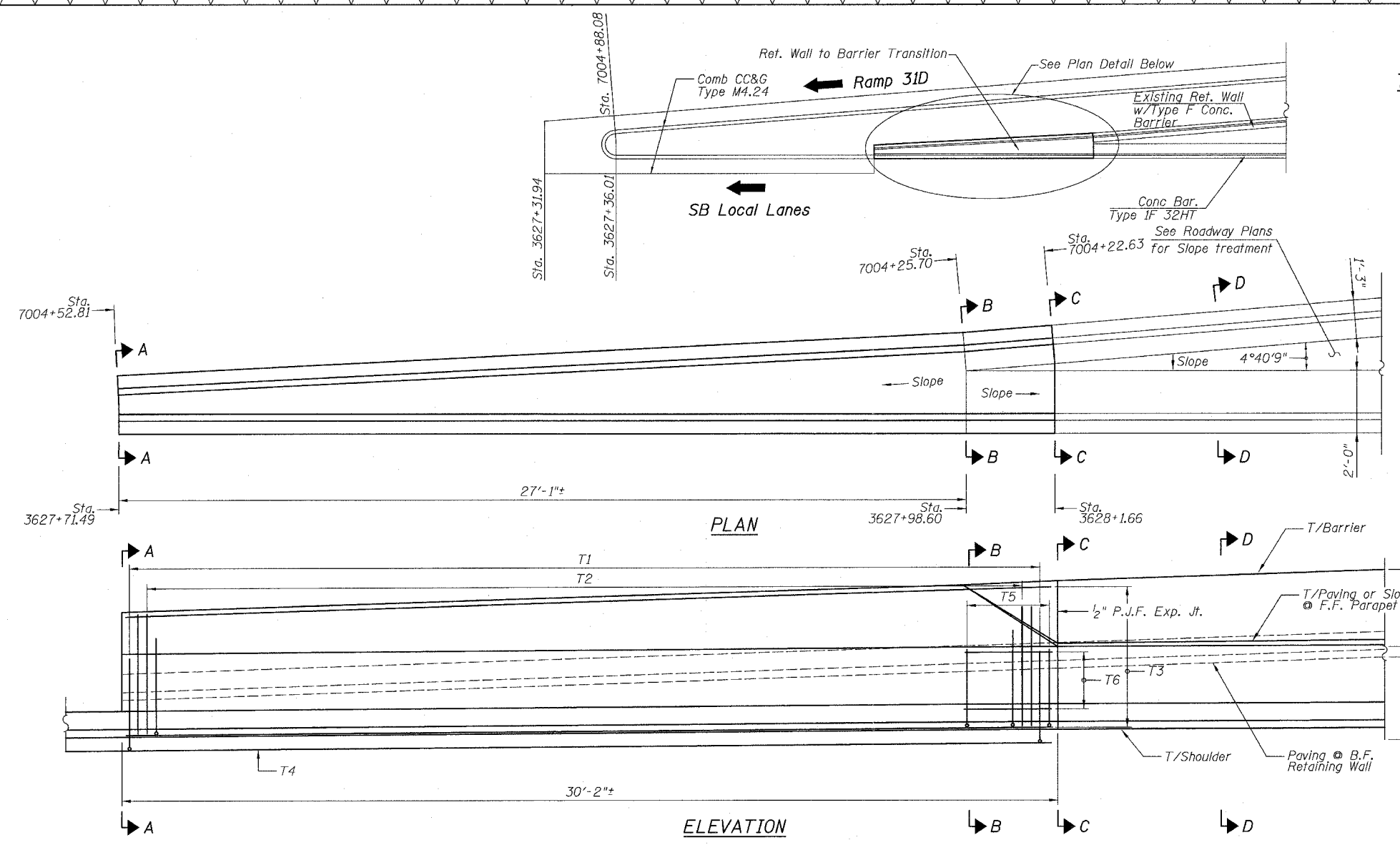
SHEET SD5A OF SD9

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)

SB EXPRESS LANES & RAMP 31D
 RETAINING WALL/BARRIER TRANSITION

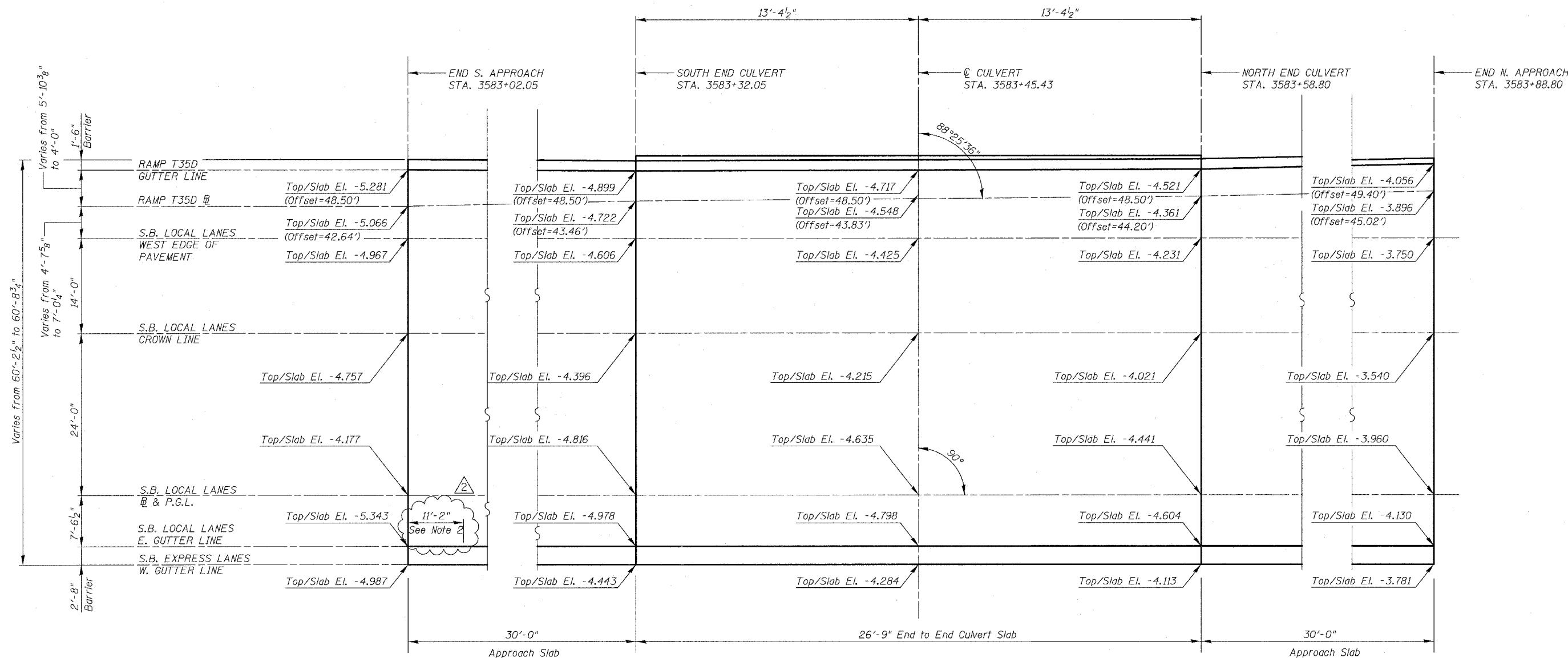
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REVISIONS		
NO.	NAME	DATE
2	ADDENDUM	8/04/06



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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	464
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
62303	*(2021-922 PT2 ETC 2324.6-1P) R-11			



PLAN

Notes:

- Offset measured from S.B. Local Lanes \square .
- Median barrier transition over this length from 2'-8" to 3'-0" (See Roadway Plans).

SHEET CUL-3 OF CUL-16

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
 MWRD CULVERT, N. OF 39TH ST.,
 COOK COUNTY, S.N. 016-2625
 TOP SLAB ELEVATIONS

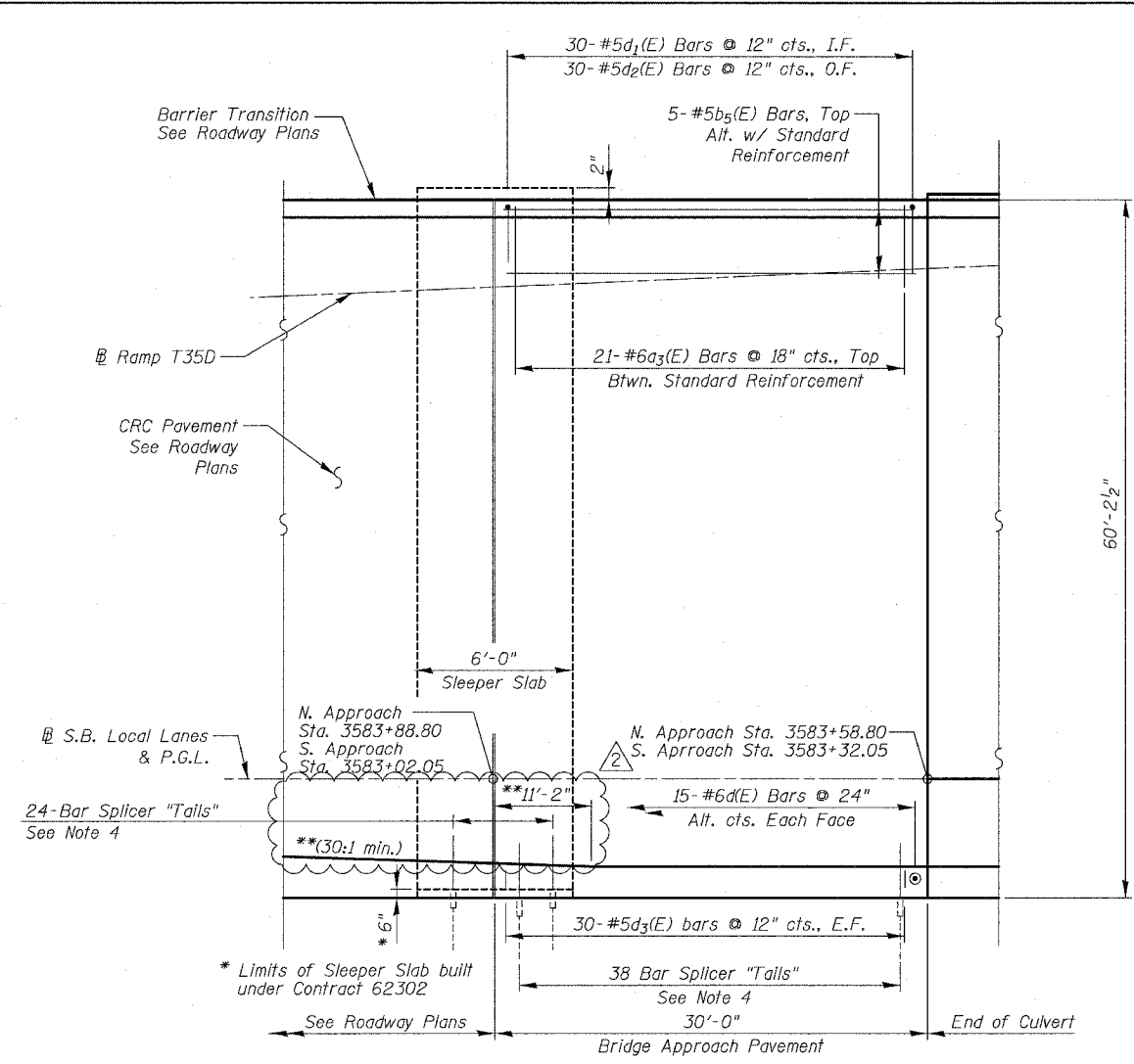
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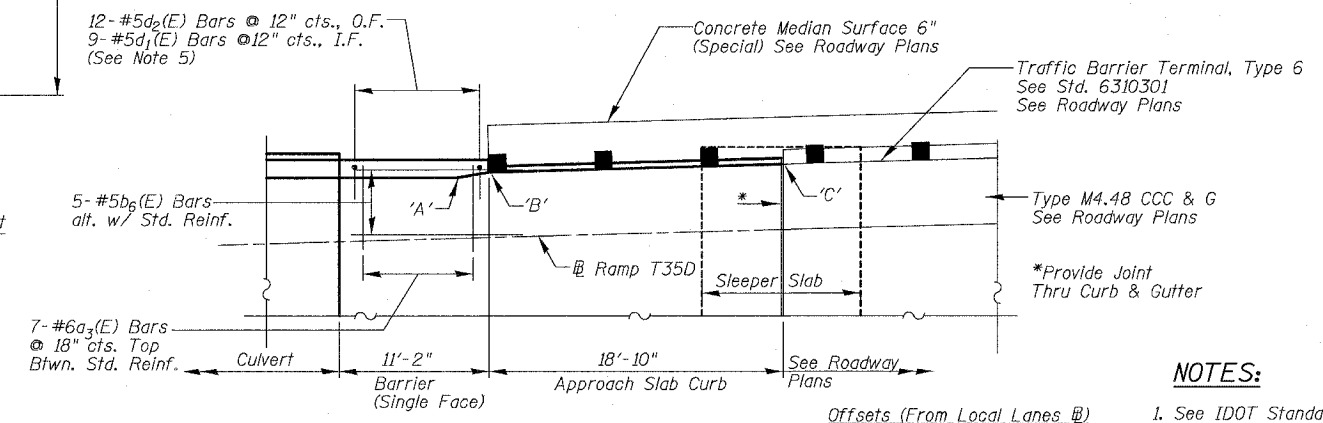
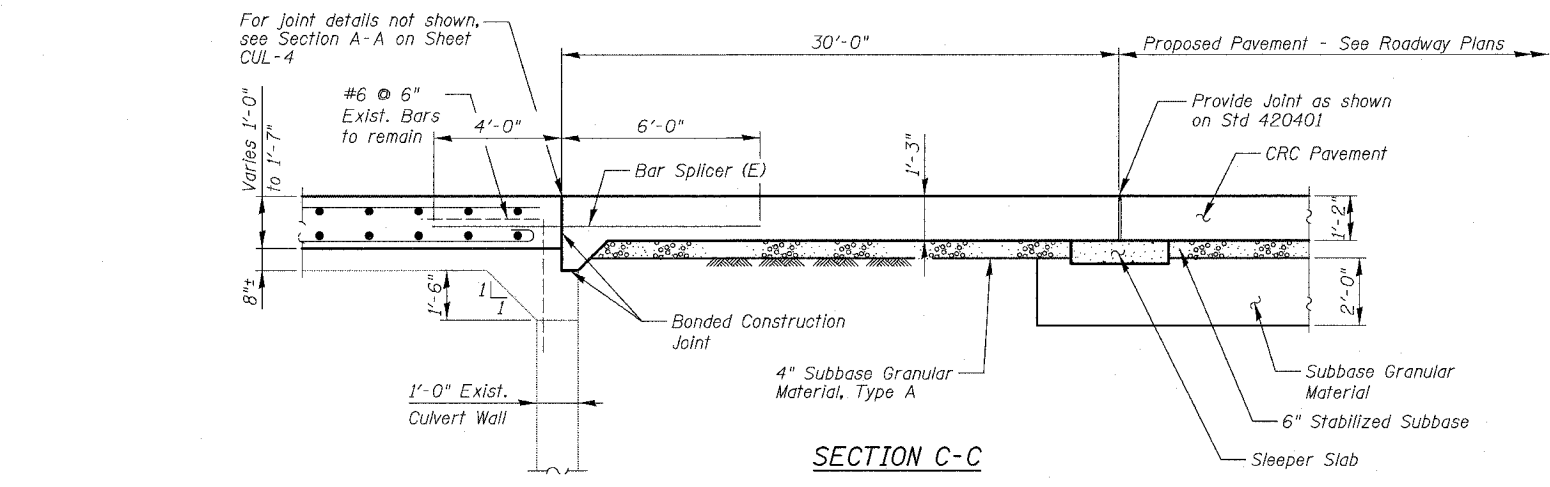
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
62303		*(2021-922 PT2 ETC 2324.6-1P) R-11		



PARTIAL PLAN
South Approach Shown
North Approach Similar as Noted

** Median Barrier tapers to 39th St. bridge pier as shown on Roadway Plans. Width varies on Approach Slab (South only) from 2'-8" to 3'-0."

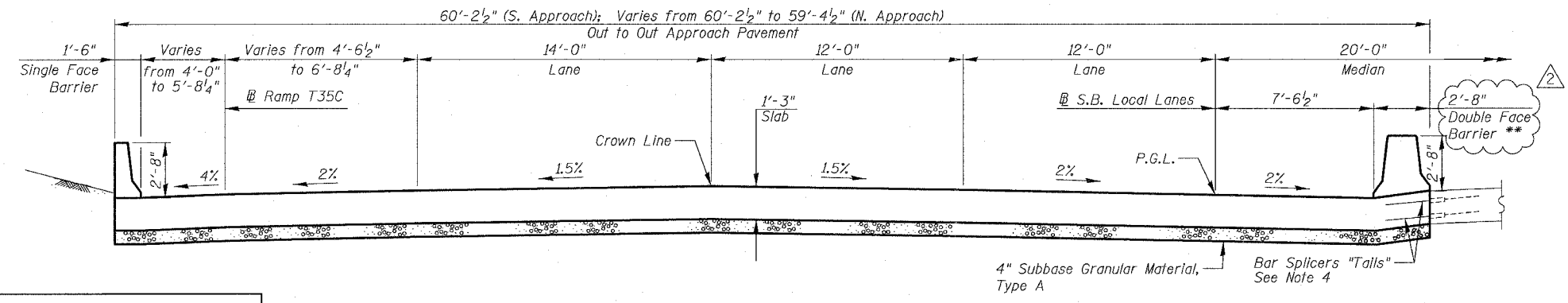


PARTIAL PLAN DETAIL
North Approach

Offsets (From Local Lanes @)
'A' = 48.50'
'B' = 48.92'
'C' = 49.40'

- NOTES:**
- See IDOT Standard 420401 for typical approach pavement reinforcing and details
 - Reinforcement Bars designated (E) shall be epoxy coated.
 - See Sheet CUL-7 for Bill of Materials.
 - Contractor shall be provided Bar Splicer "Tails" by Engineer for use in previously placed inserts. Contractor shall exercise care in removing ramp pavement not to damage inserts. Cost of installing "Tails" included with Bar Splicers.
 - Provide 3- #5d₃(E) bars @ 12" cts., I.F. @ tapered end.

ABBREVIATIONS:
I.F. = Inside Face
O.F. = Outside Face



SECTION D-D

SHEET CUL-6 OF CUL-16

REVISIONS	
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ADDENDUM 2	8/04/06

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GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
MWRD CULVERT, N. OF 39TH ST.,
COOK COUNTY, S.N. 016-2625
APPROACH SLAB DETAILS 1

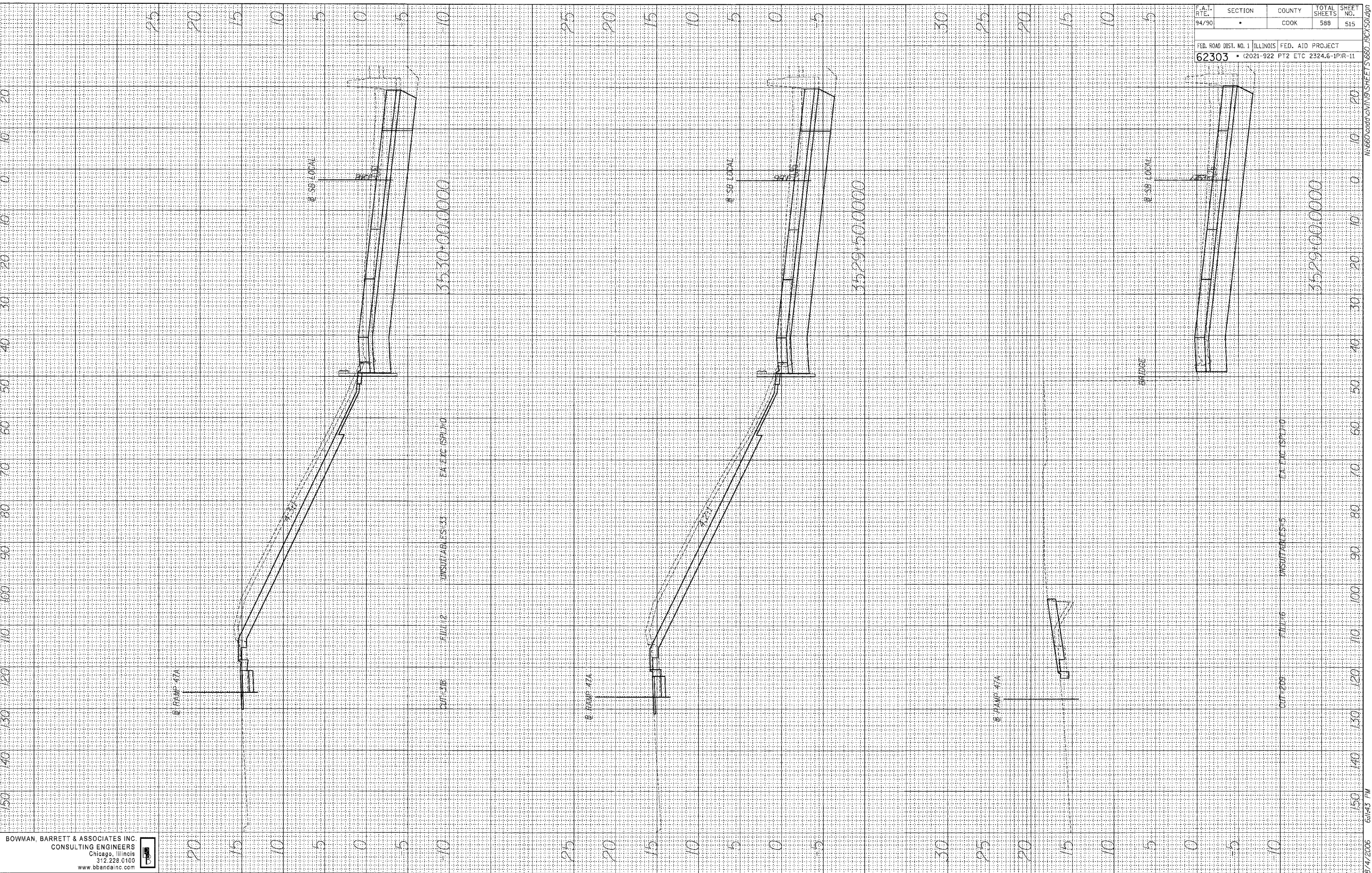
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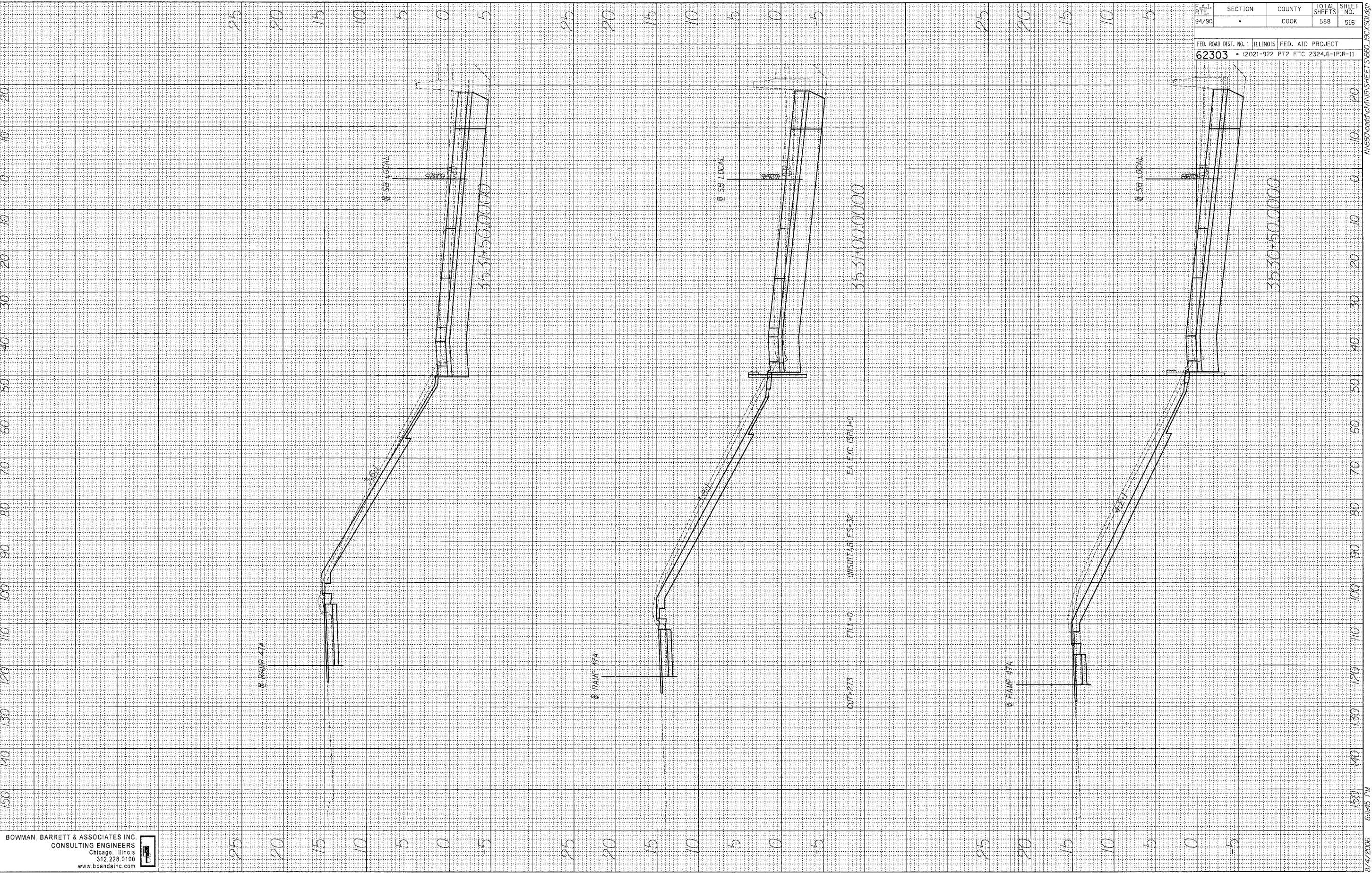
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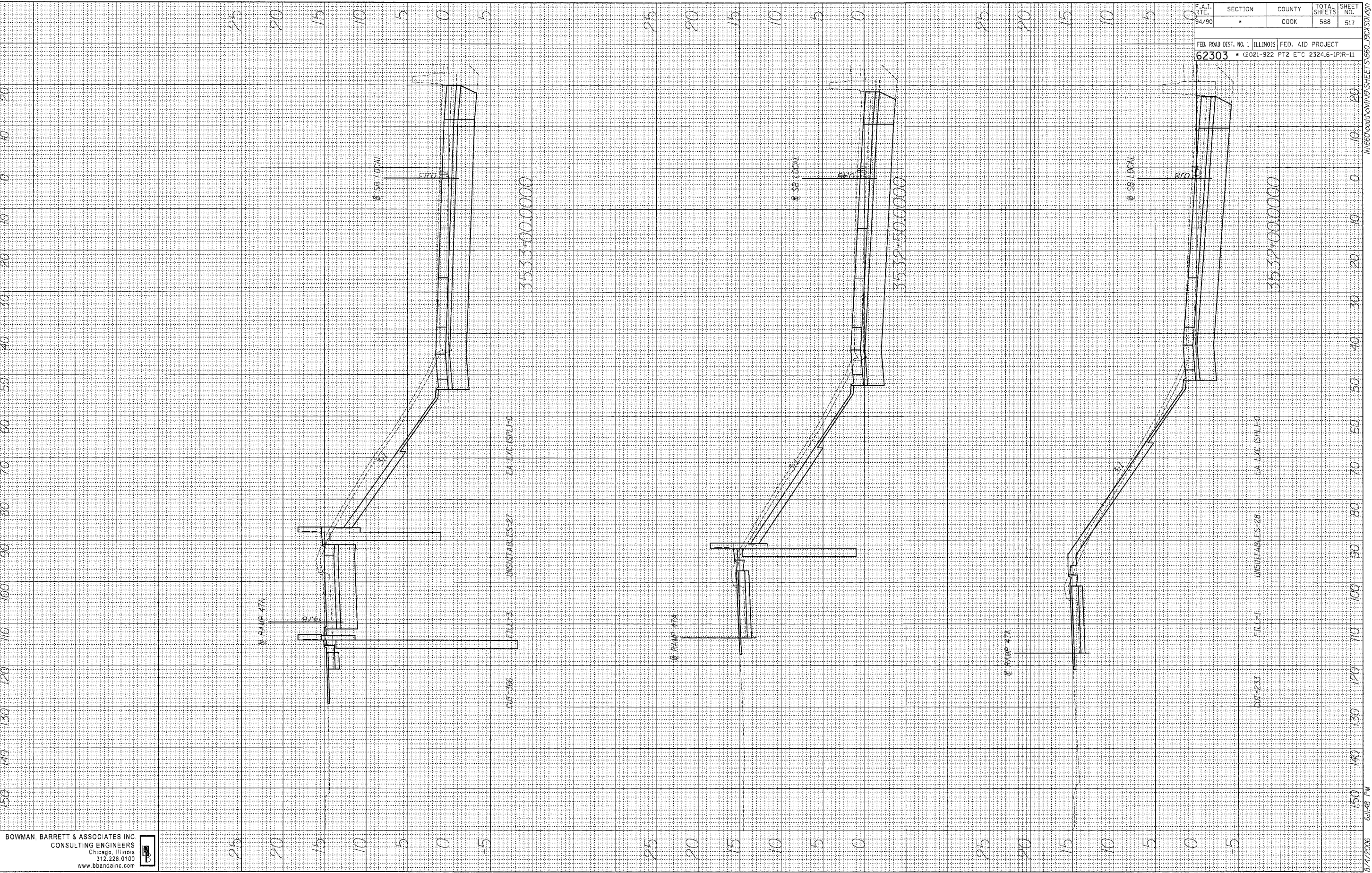
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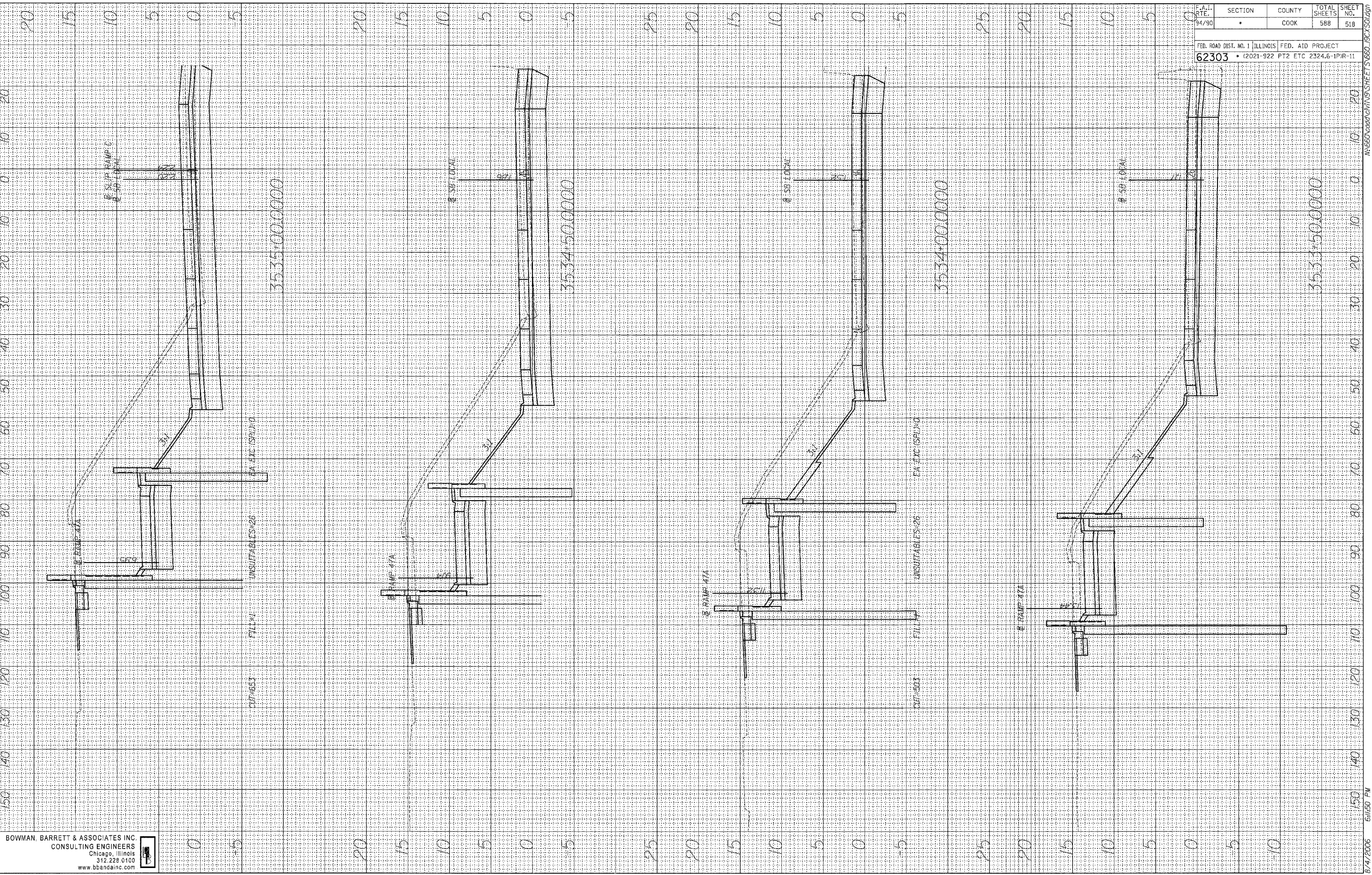
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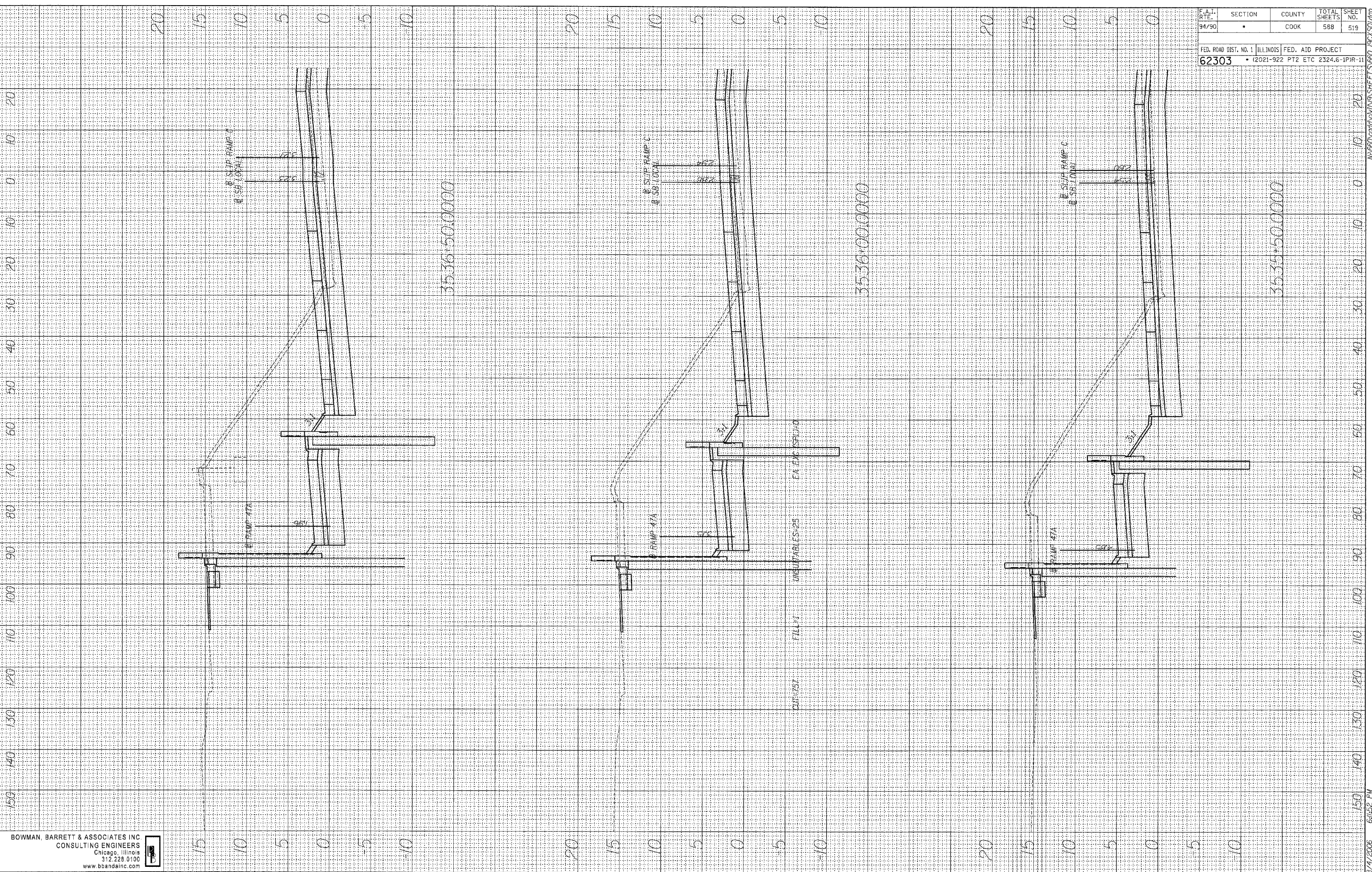
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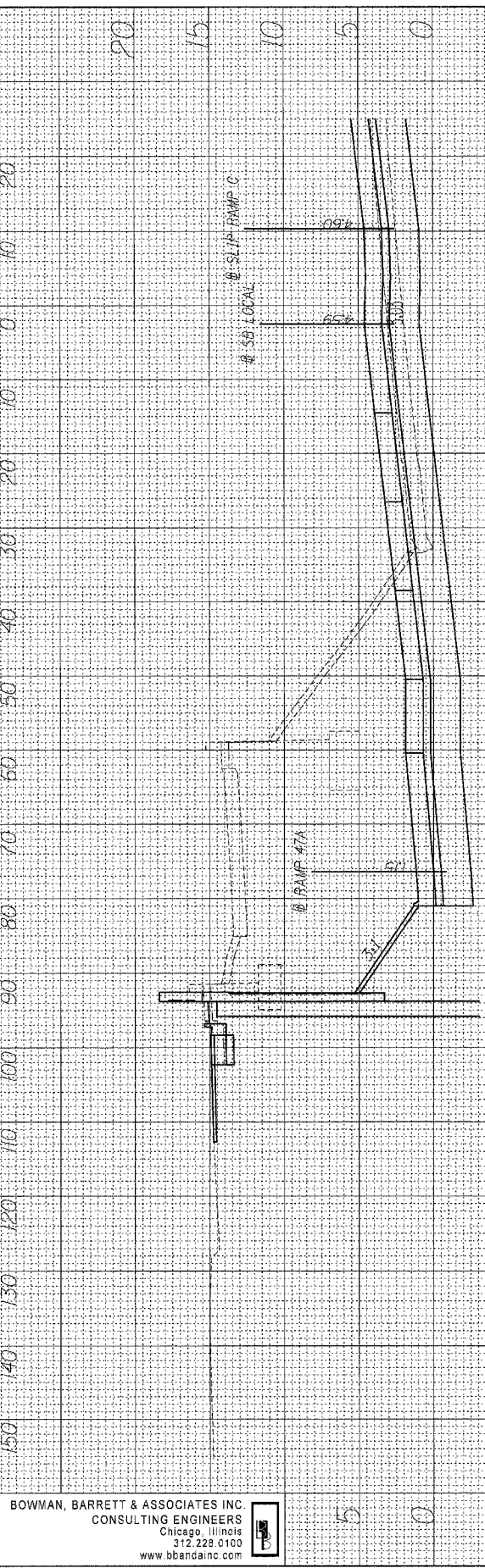
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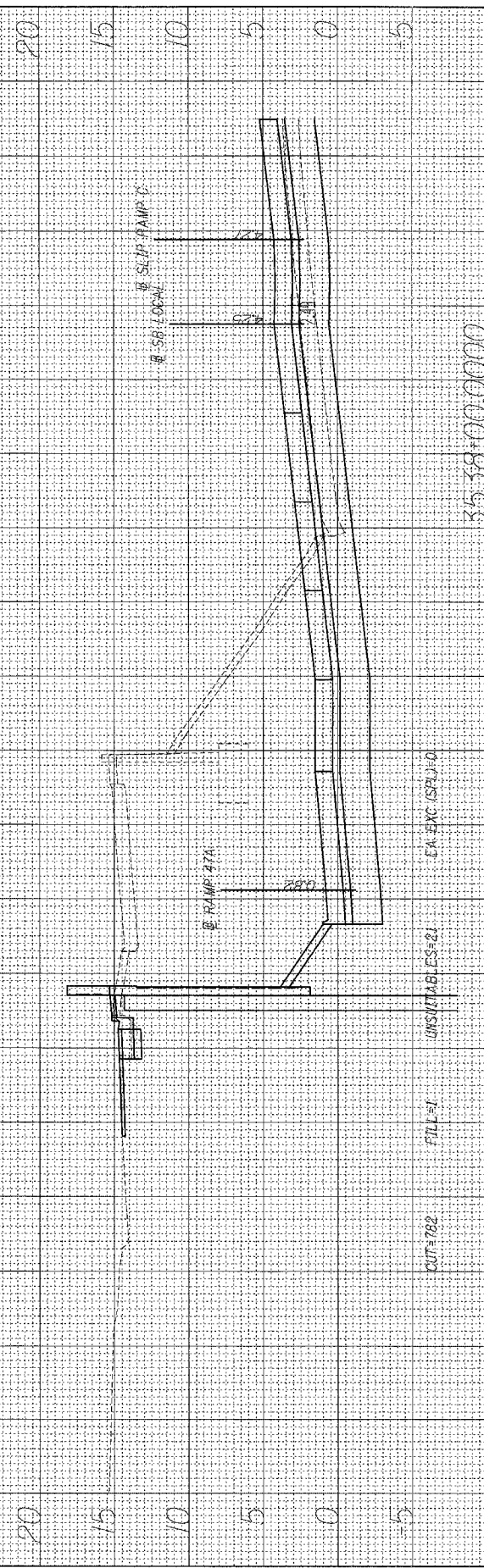
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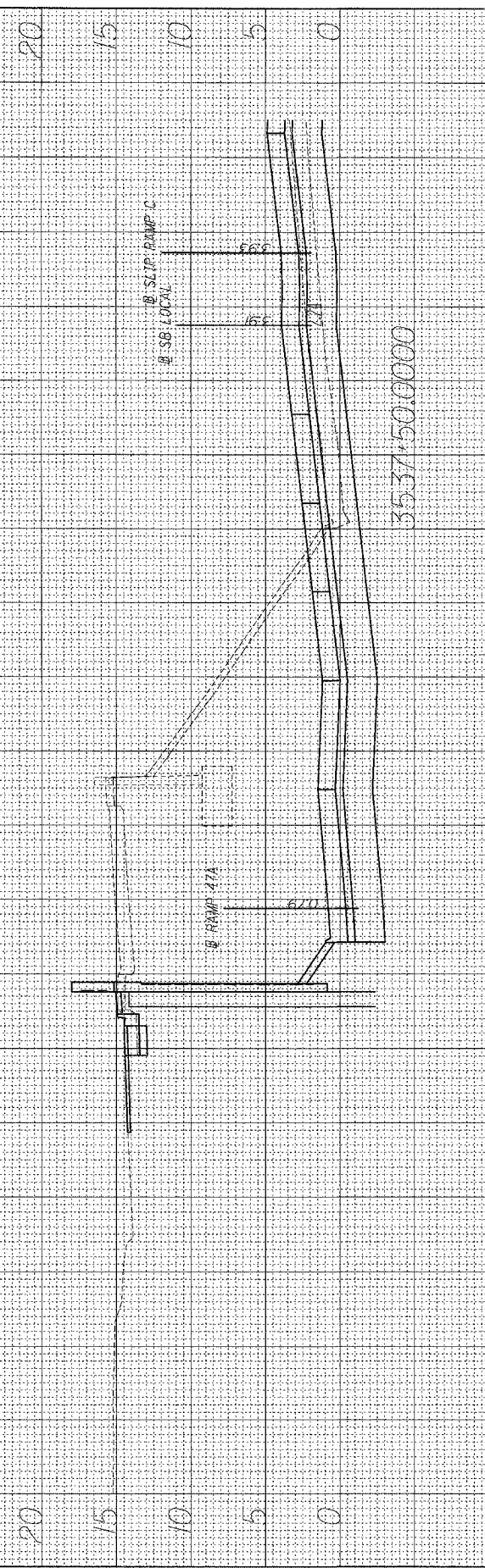
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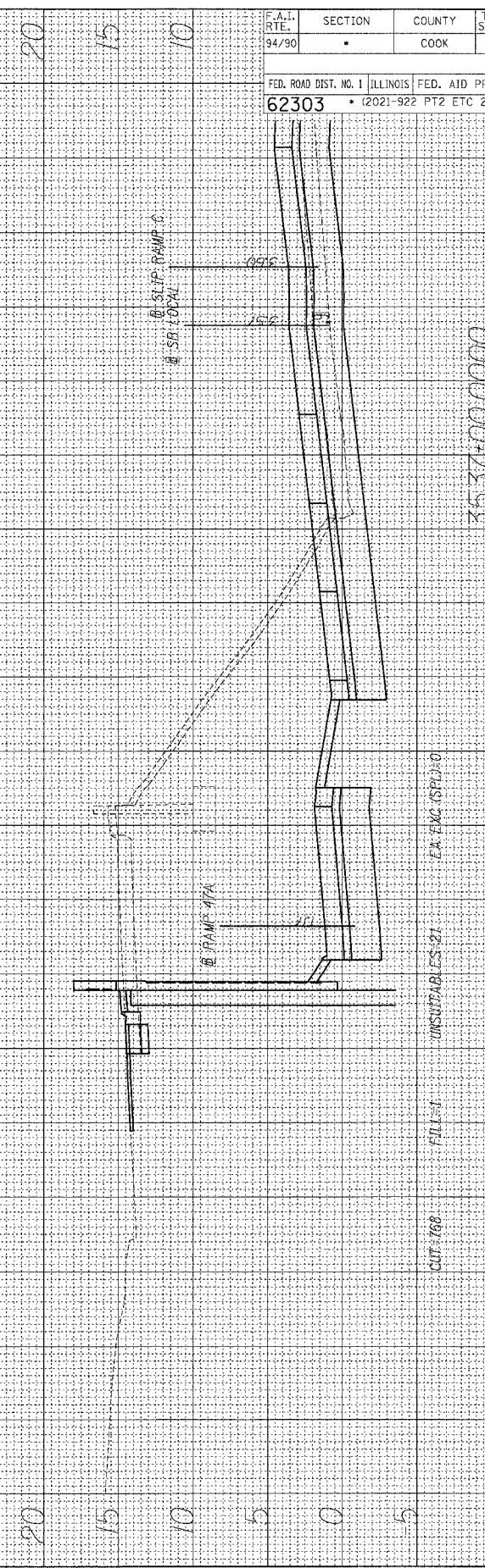
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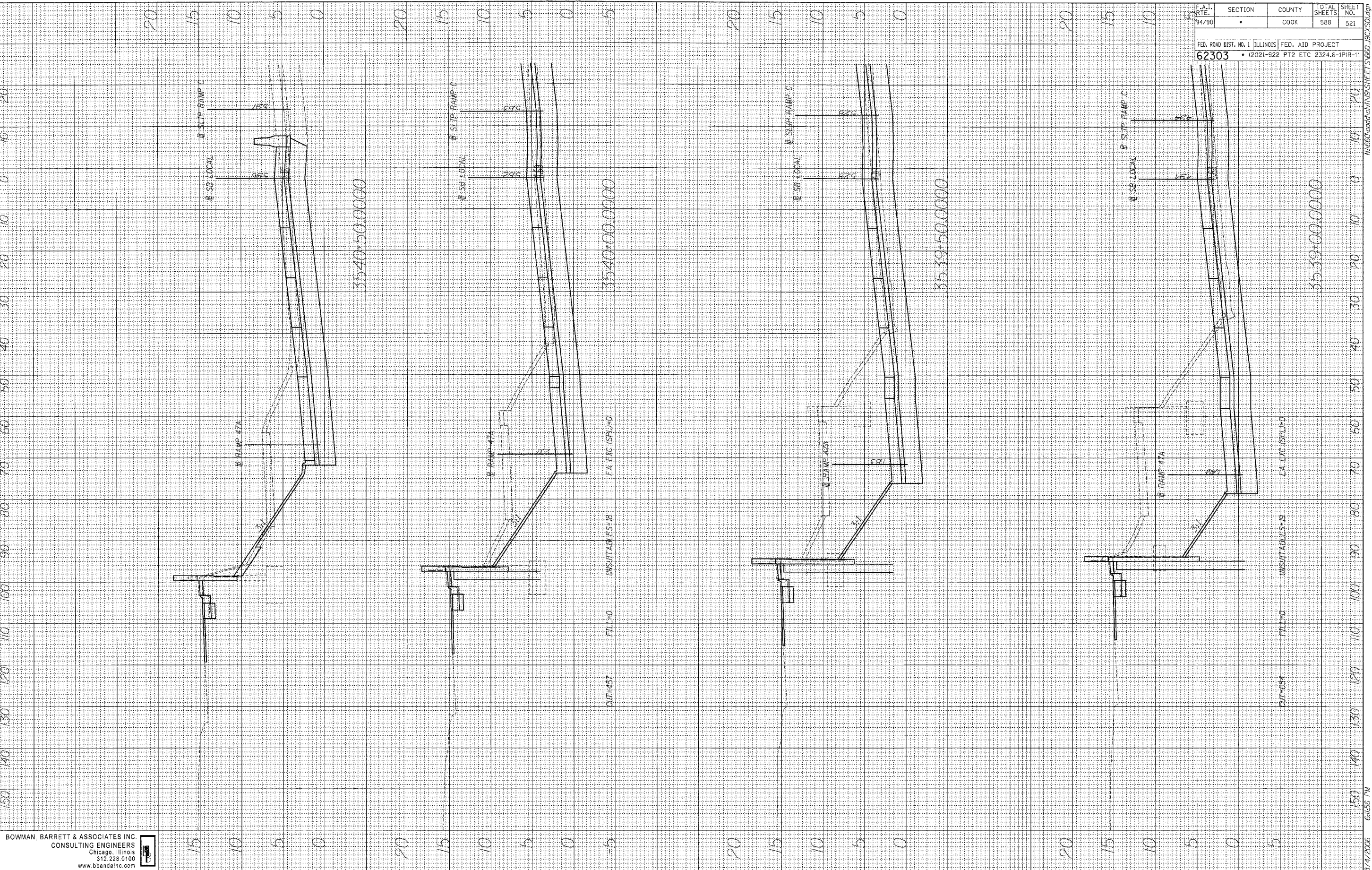
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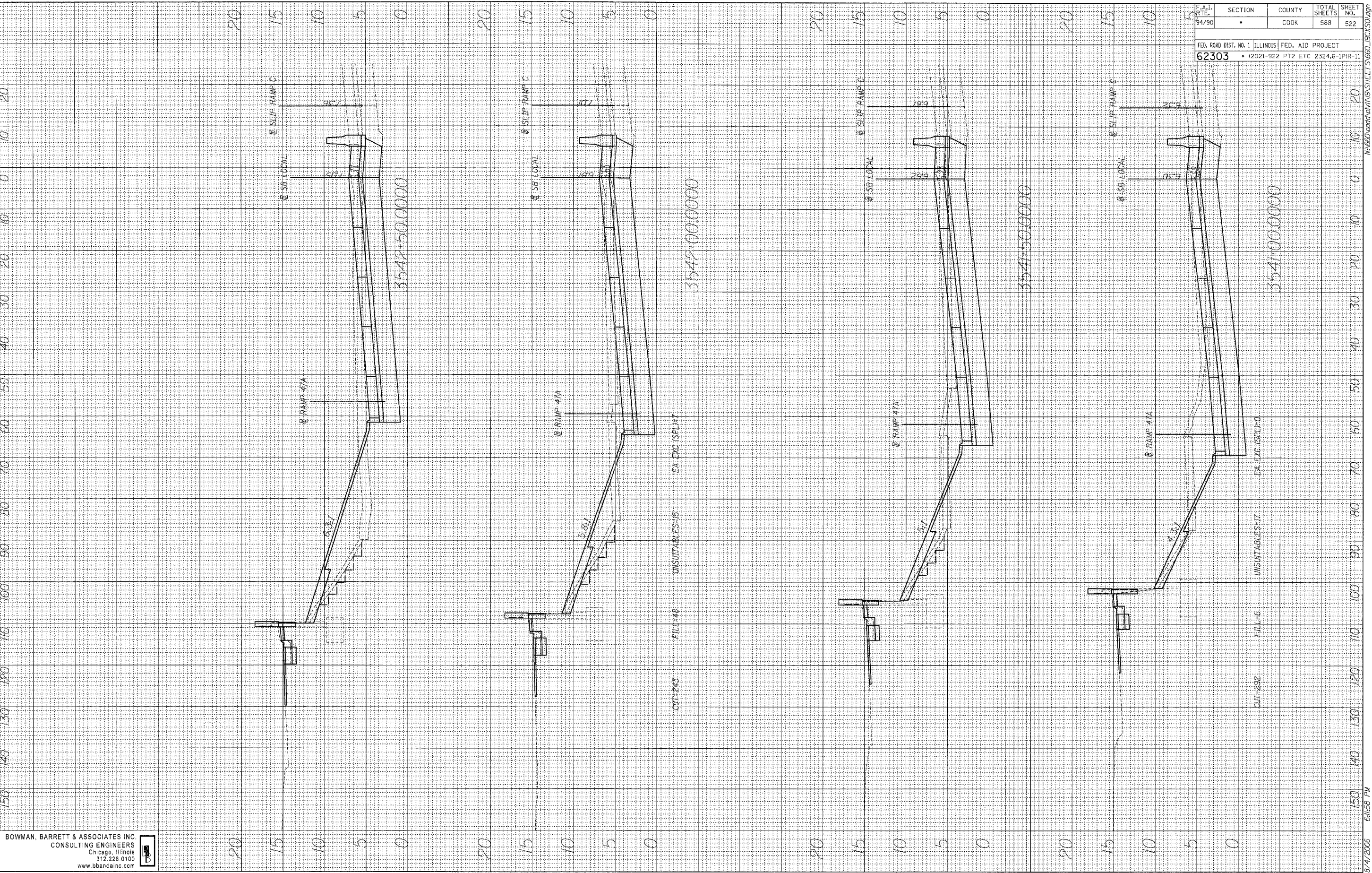
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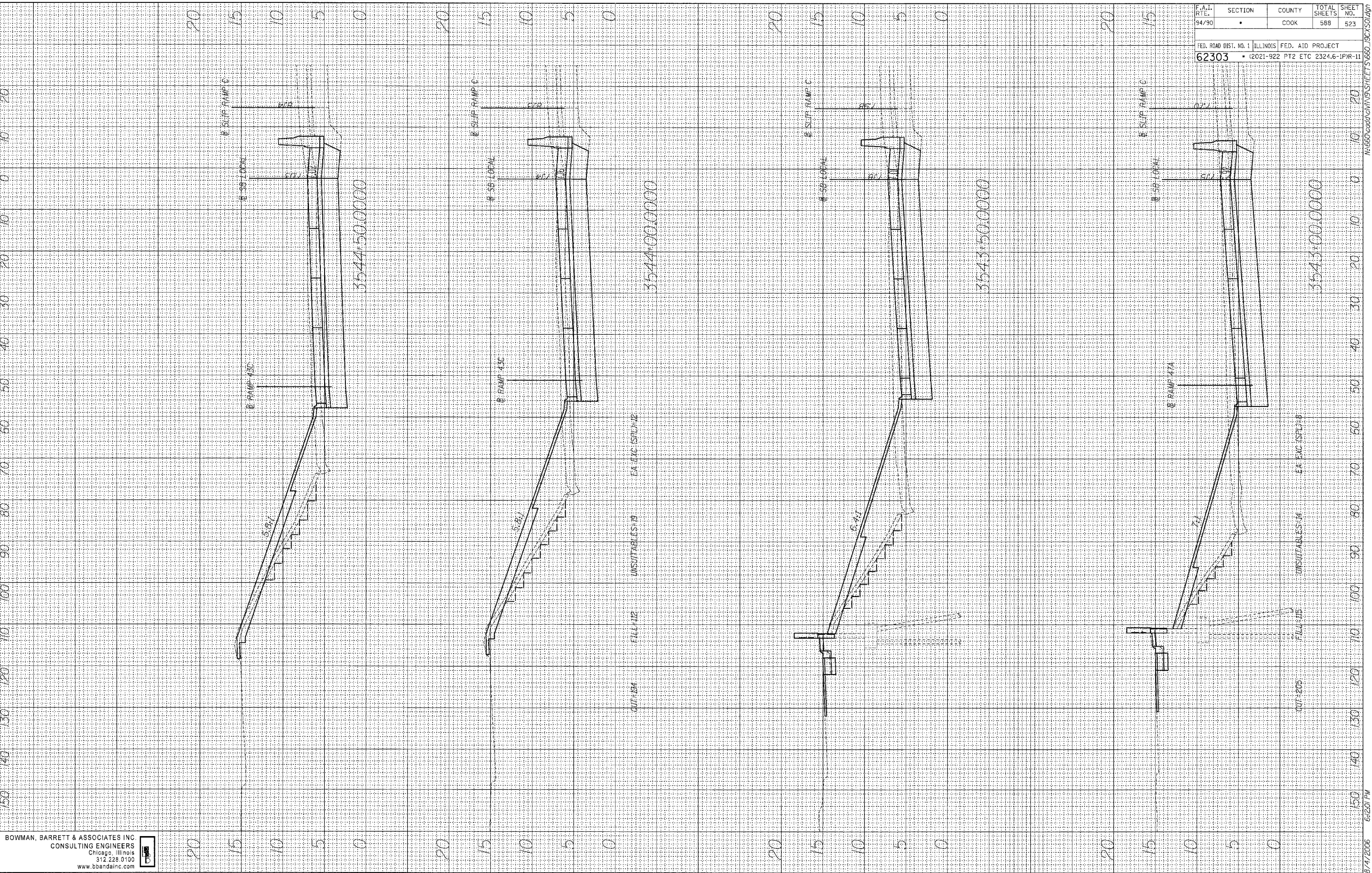
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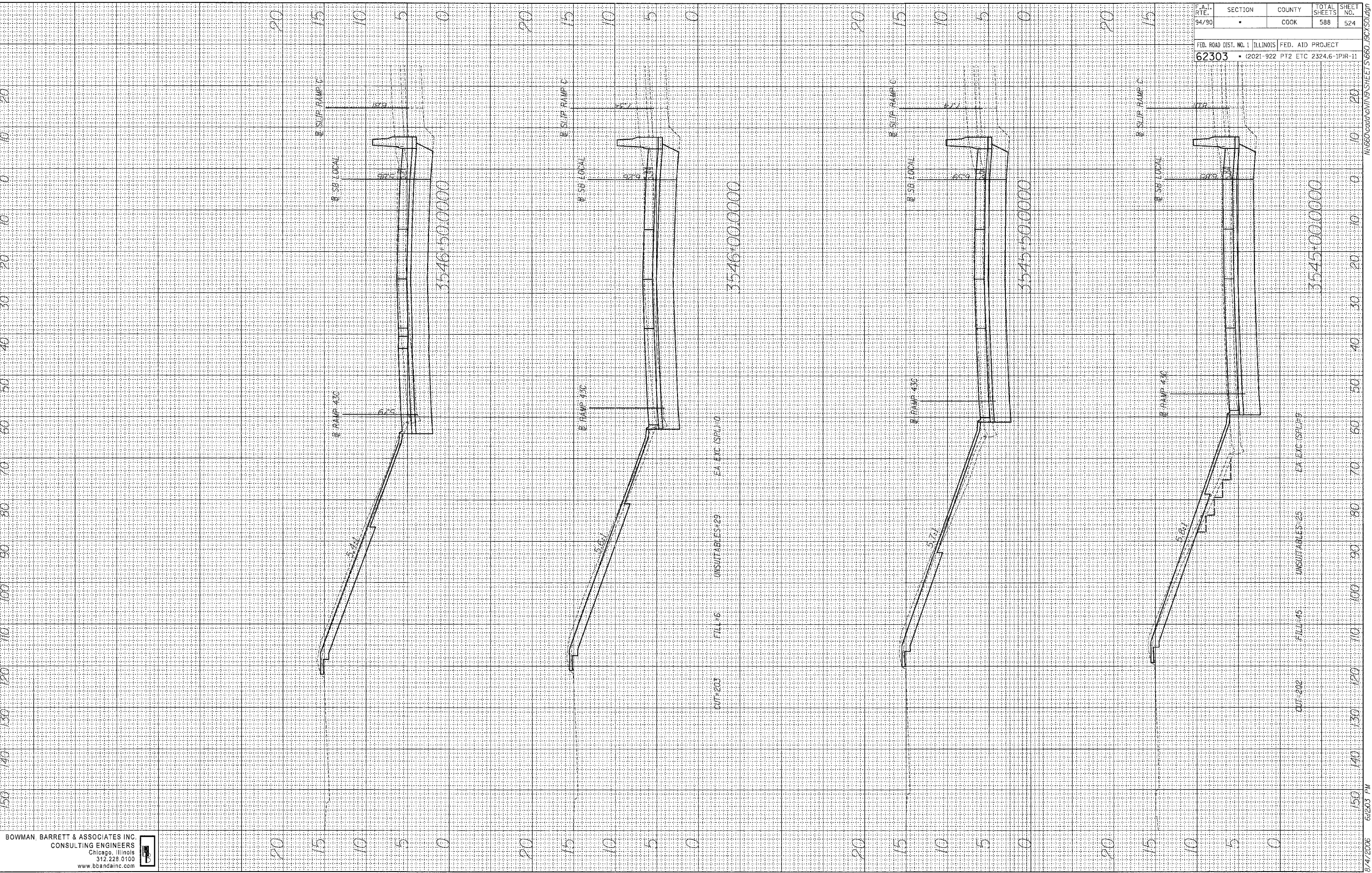
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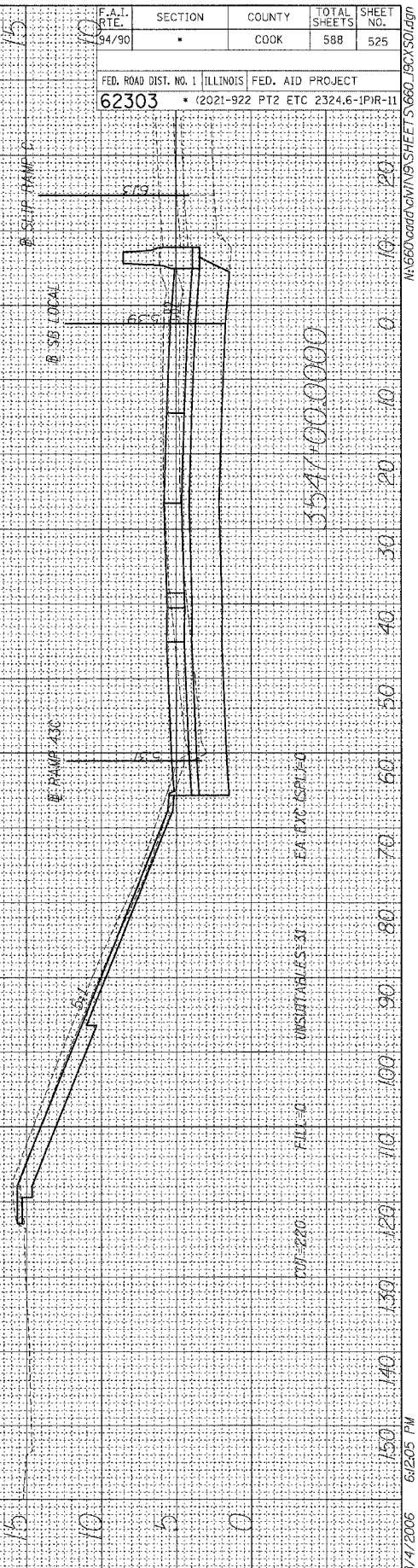
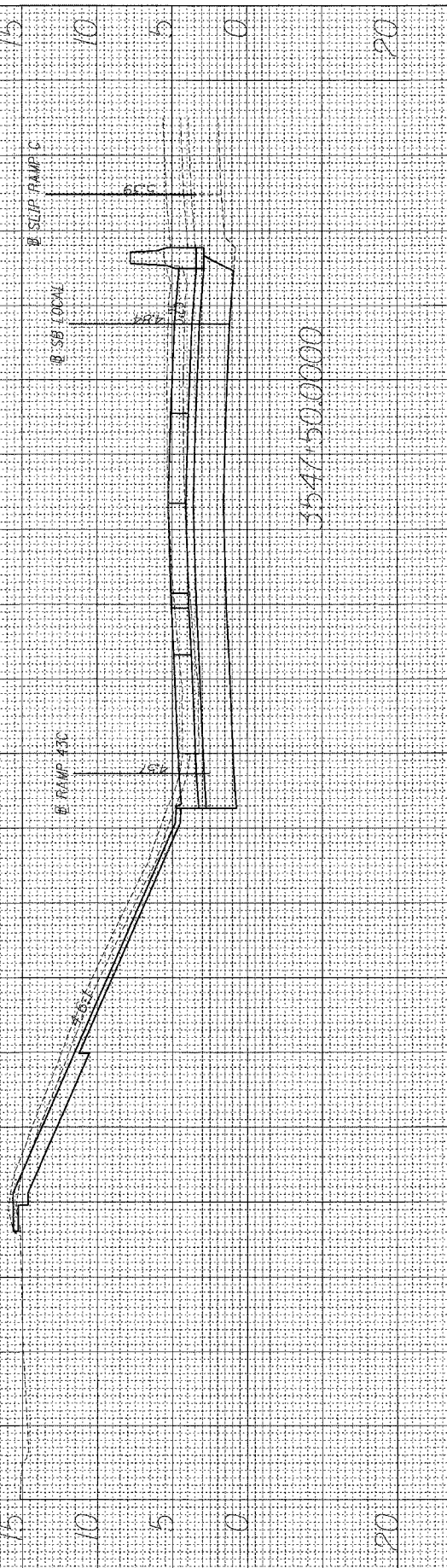
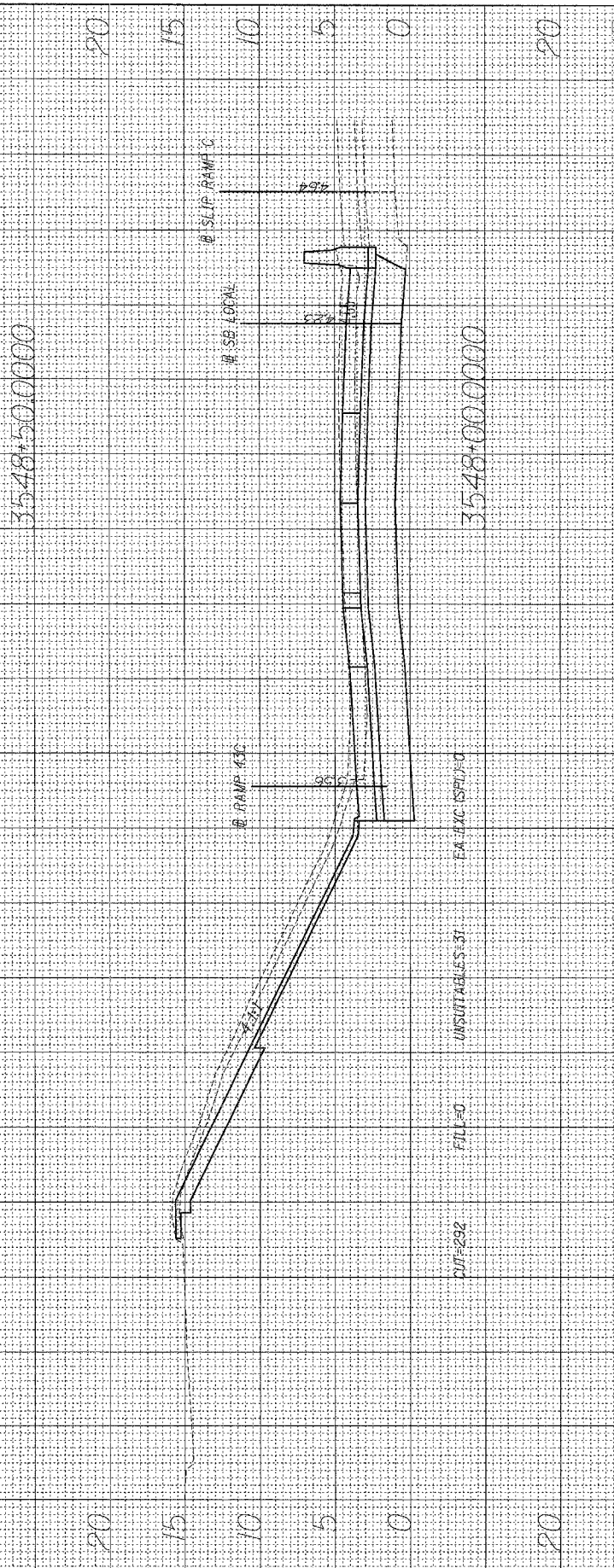
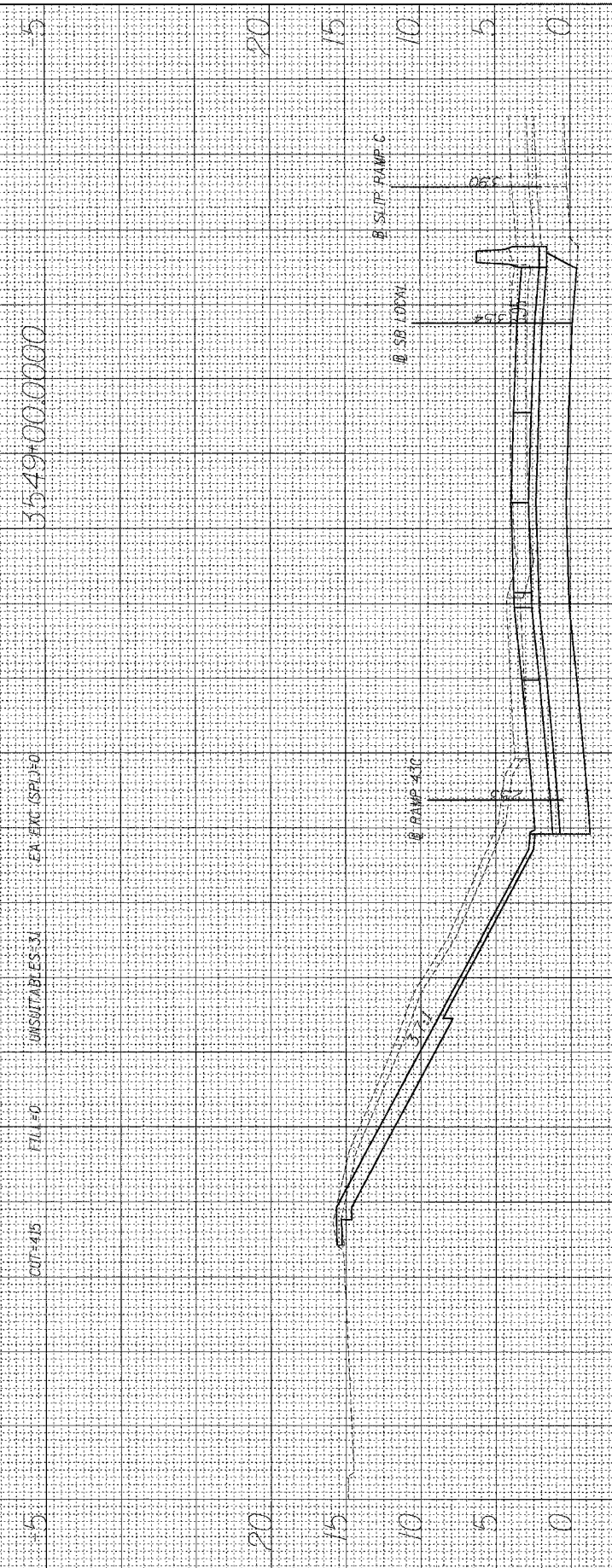
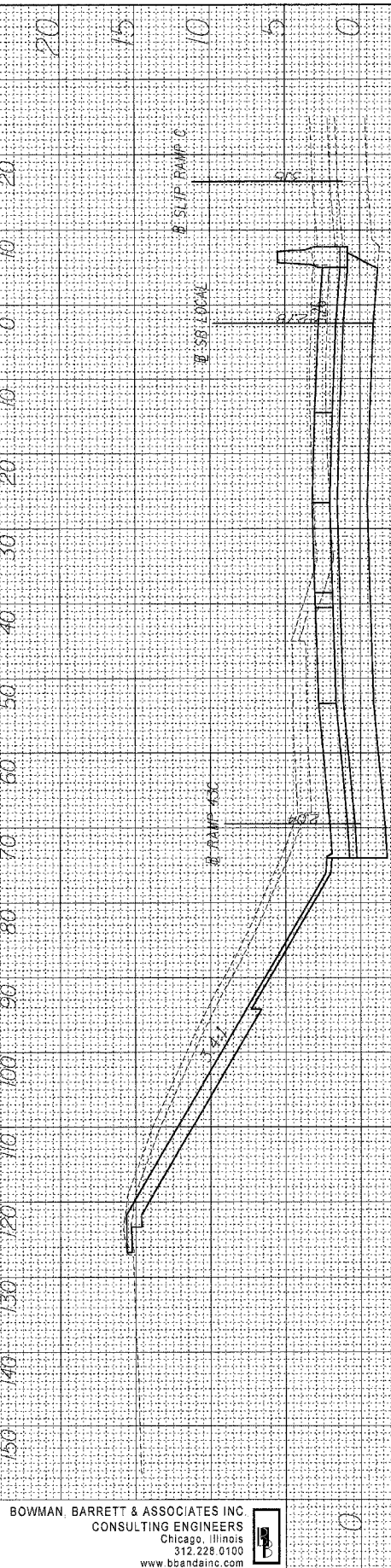
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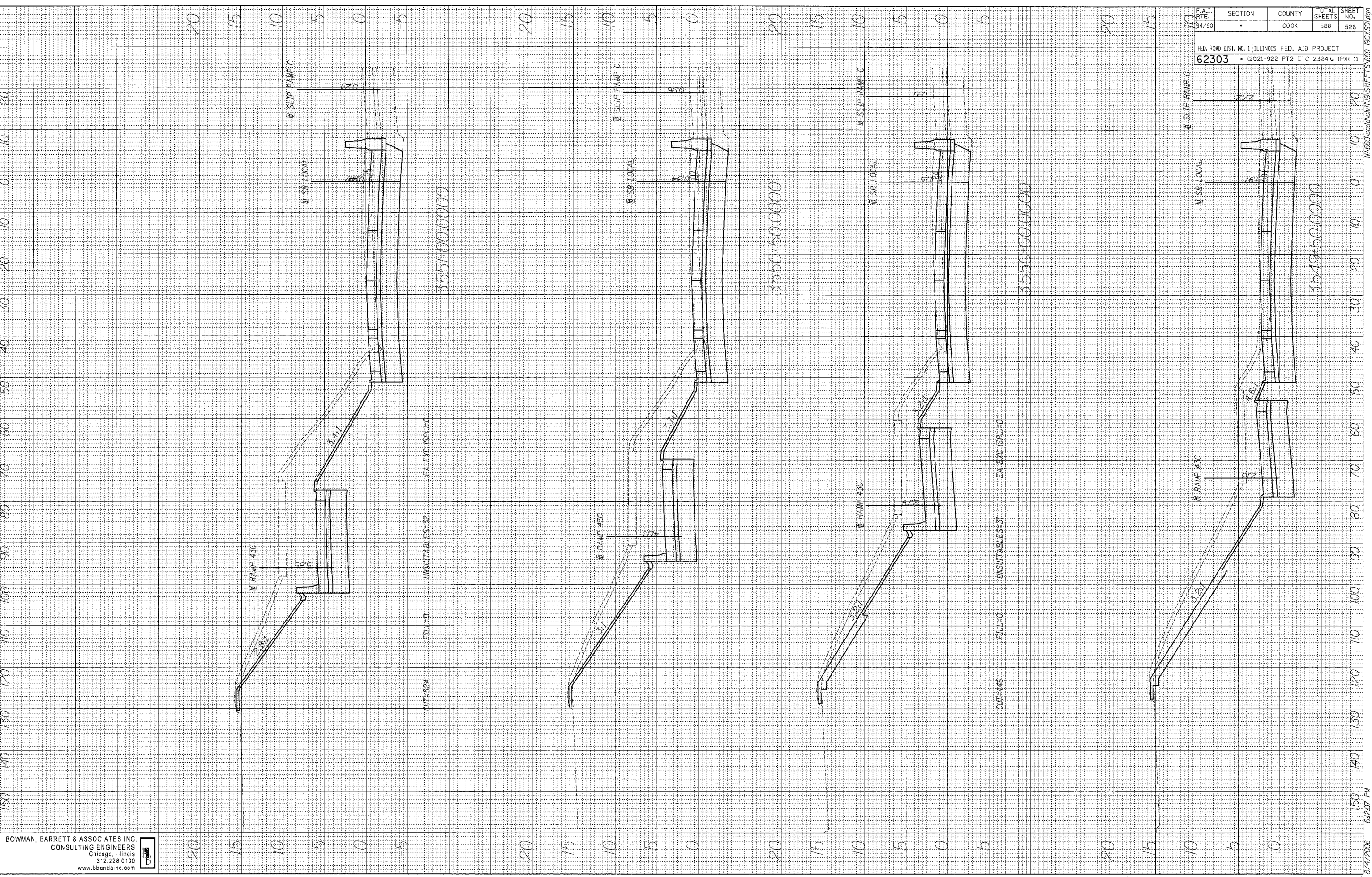
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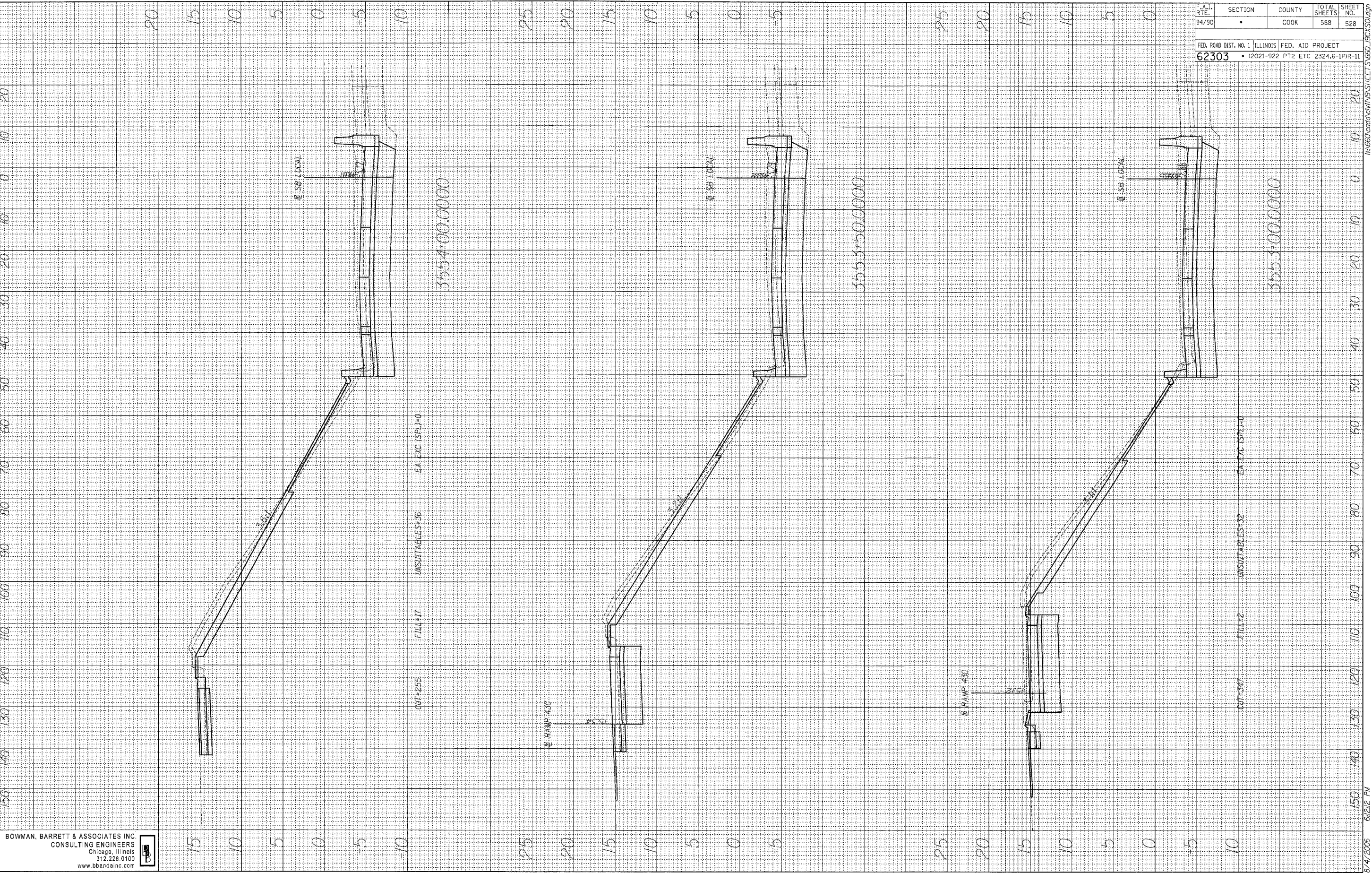
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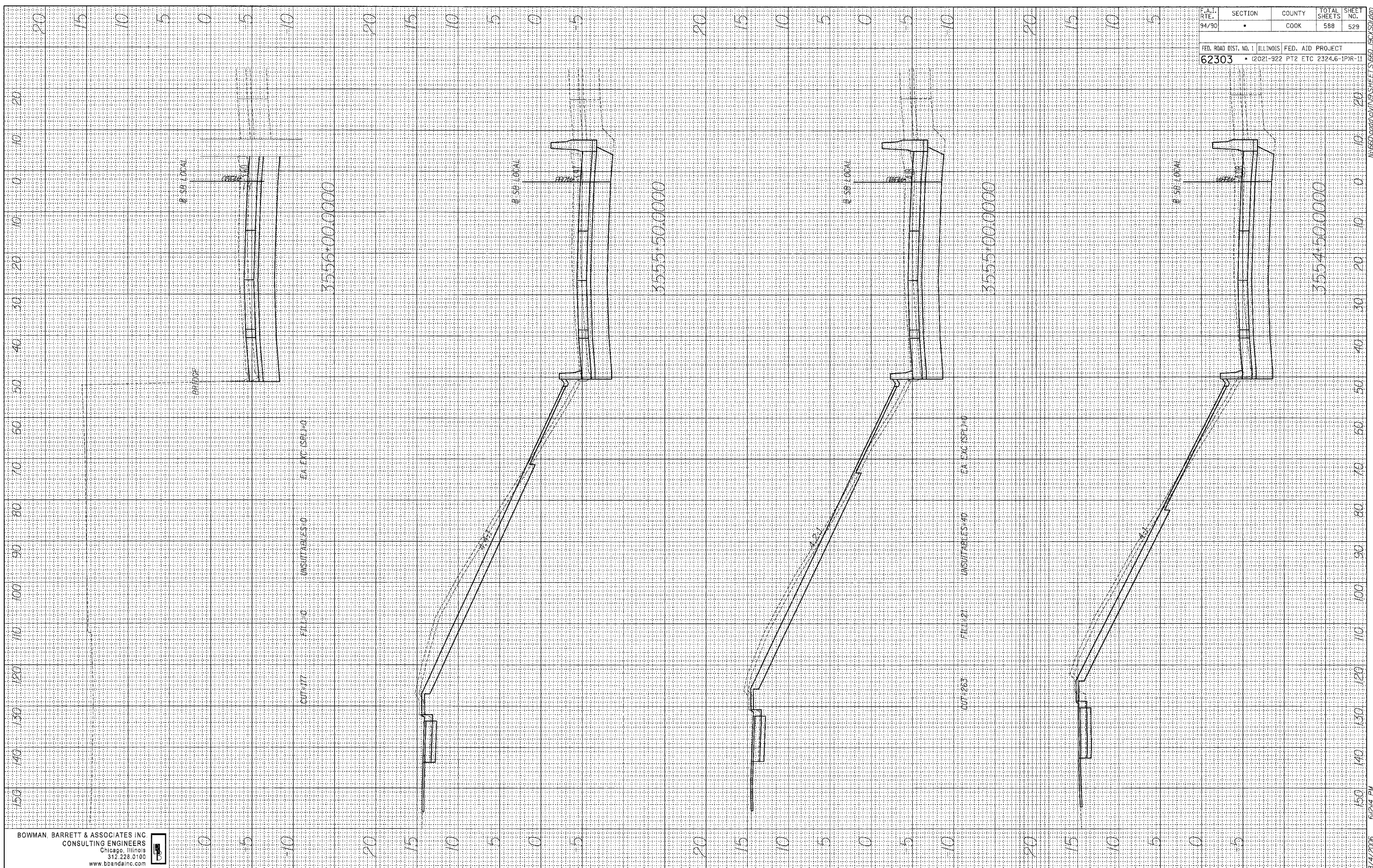
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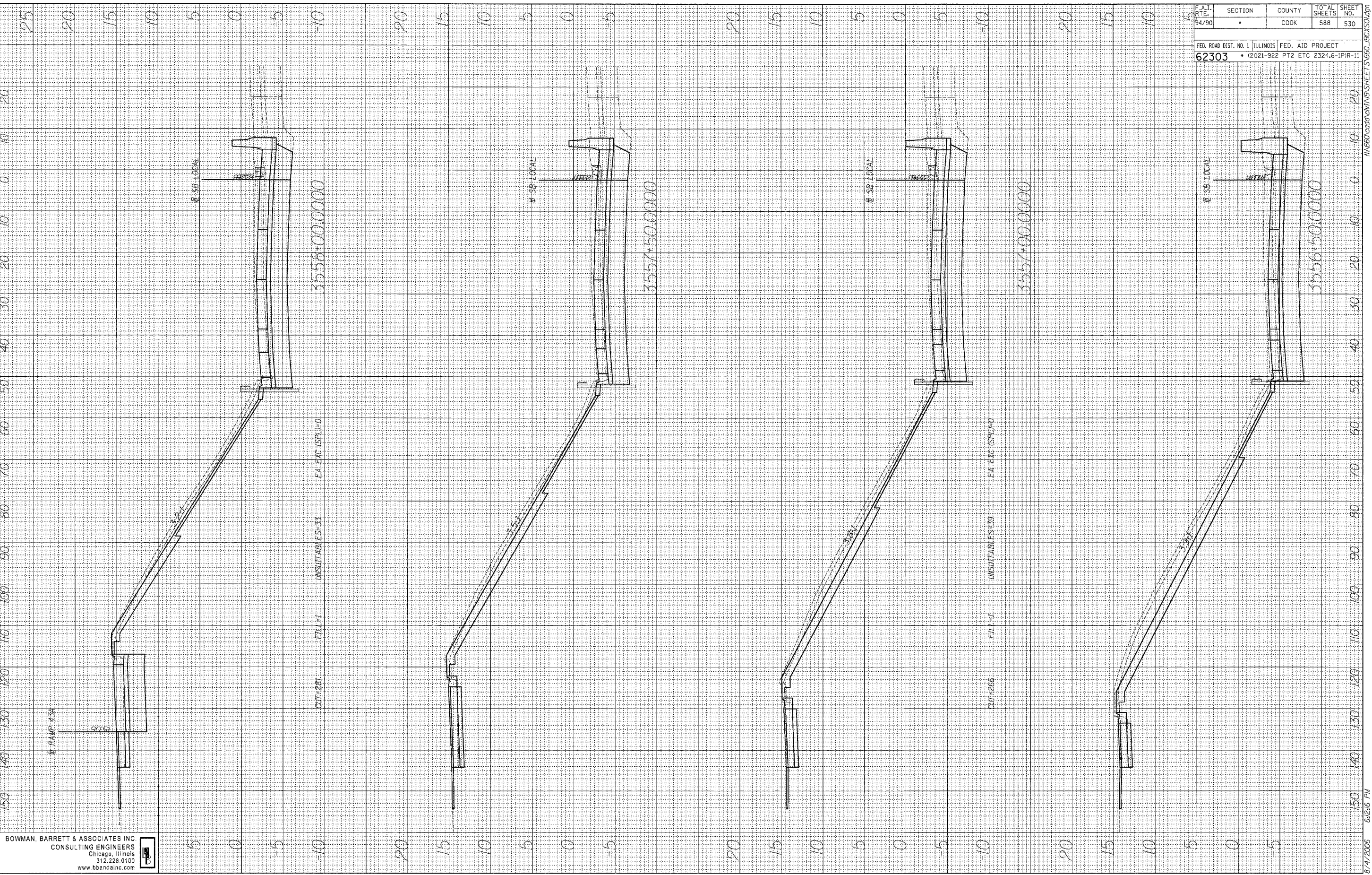


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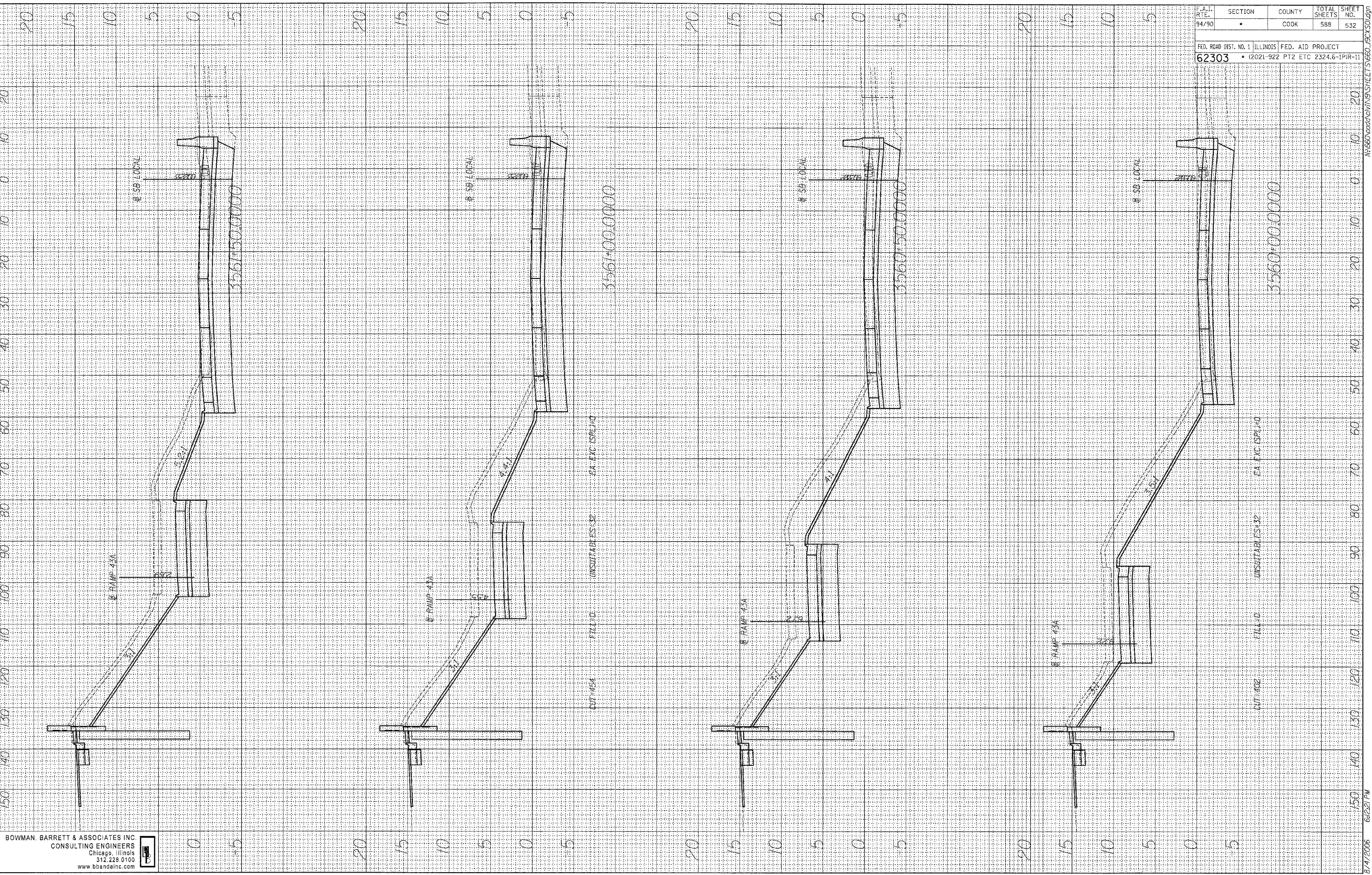
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94/90		COOK	588	530
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62303 • (2021-922 PT2 ETC 2324.6-1PIR-11				

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	•	COOK	588	532

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
 62303 • (2021-922 PT2 ETC 2324.6-1PIR-11)

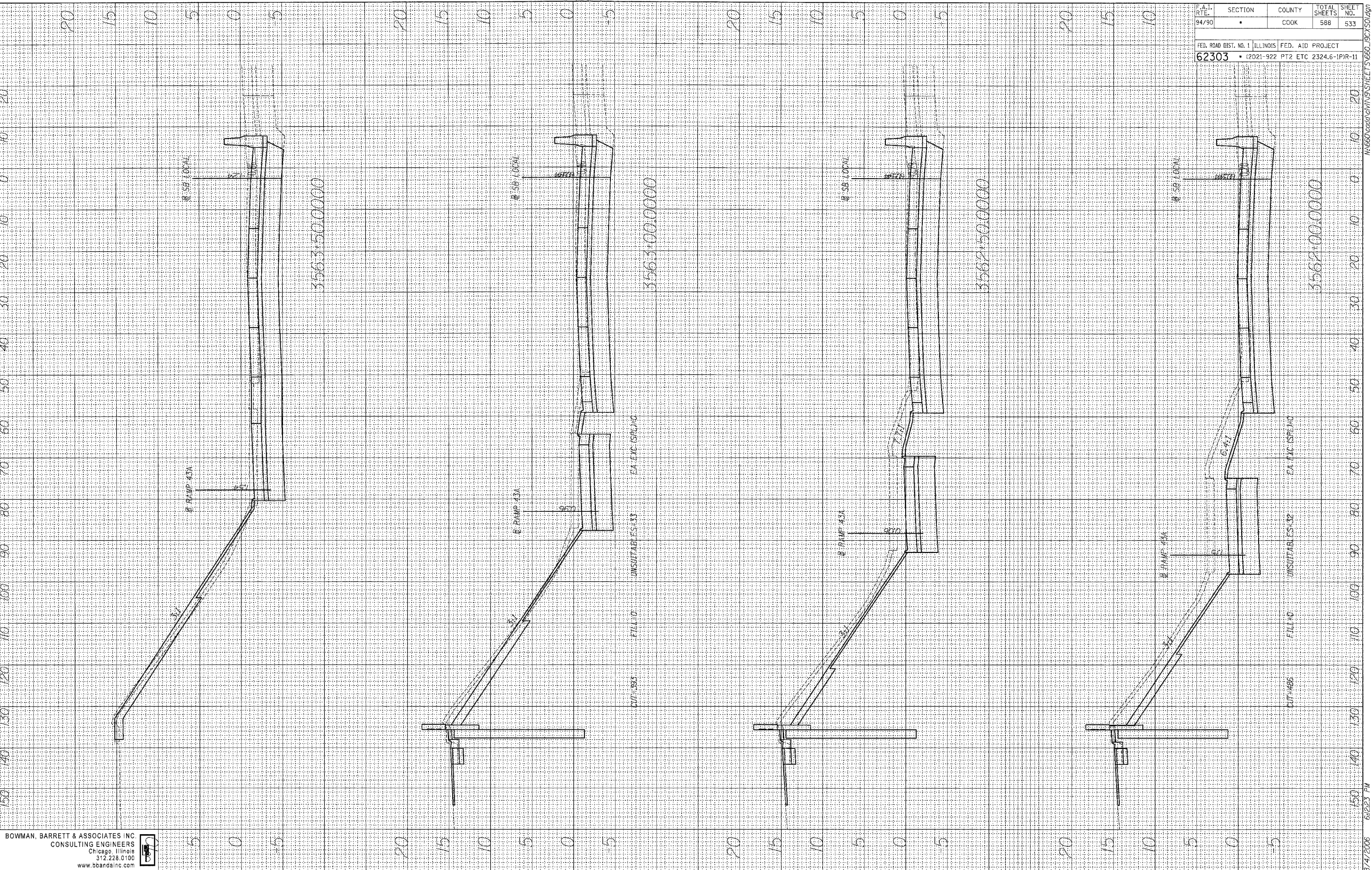
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	•	COOK	588	533

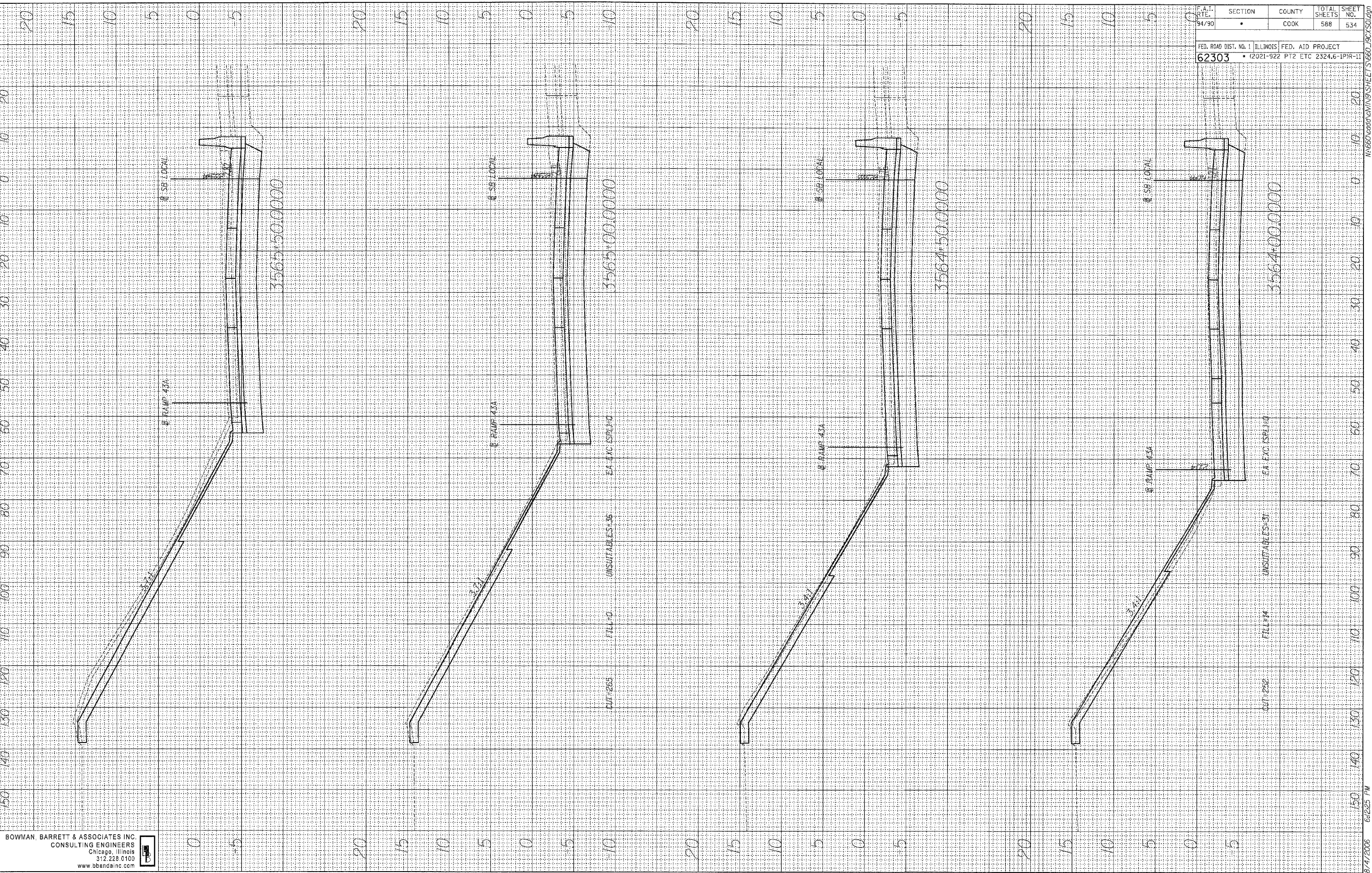
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62303	• (2021-922 PT2 ETC	2324.6-1PR-11

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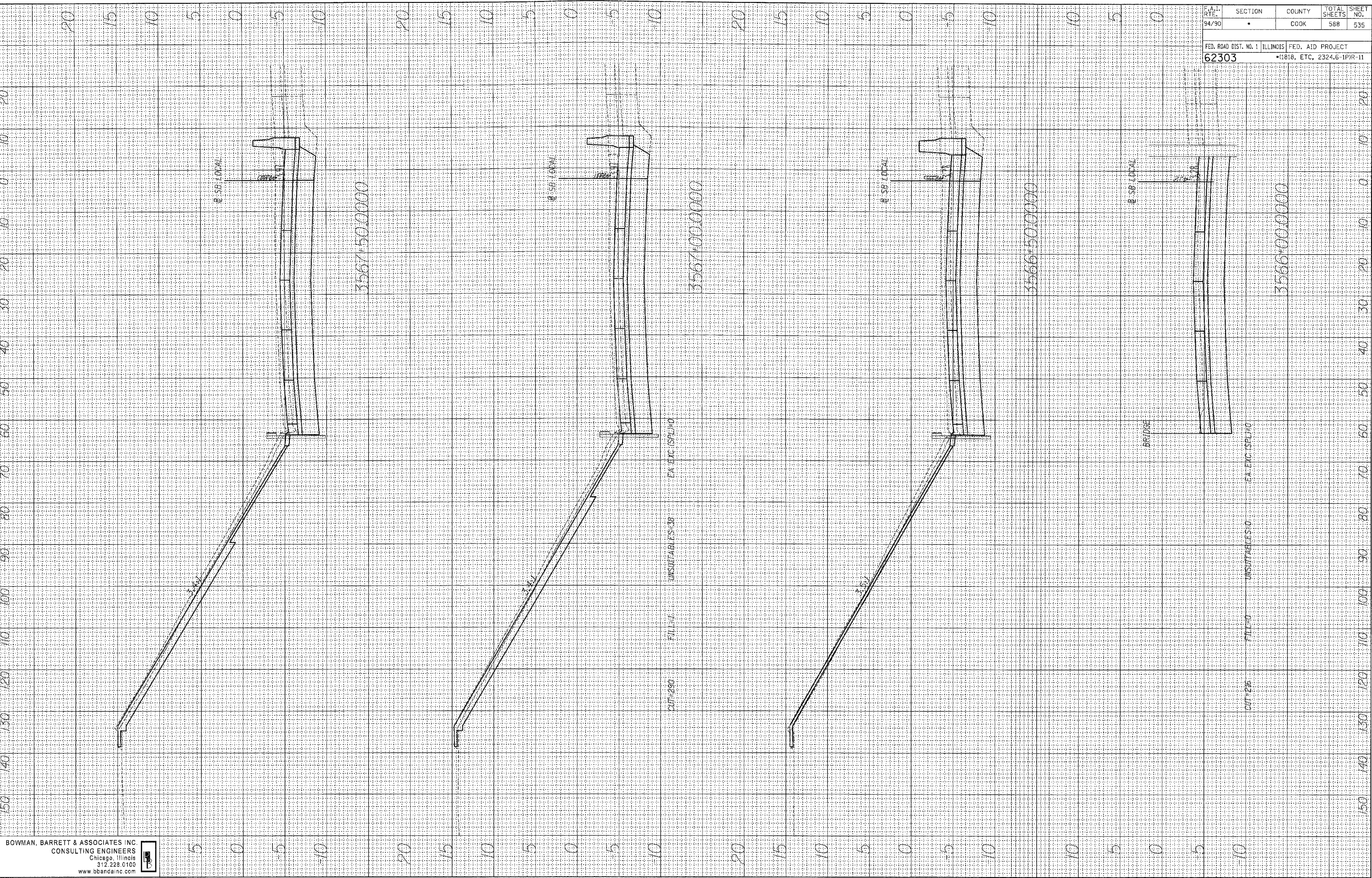
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F.A.I. RTE. 94/90	SECTION	COUNTY COOK	TOTAL SHEETS 588	SHEET NO. 534
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62303 • (2021-922 PT2 ETC 2324.6-1PR-1)				

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ORIGINAL SURVEY	BY	DATE
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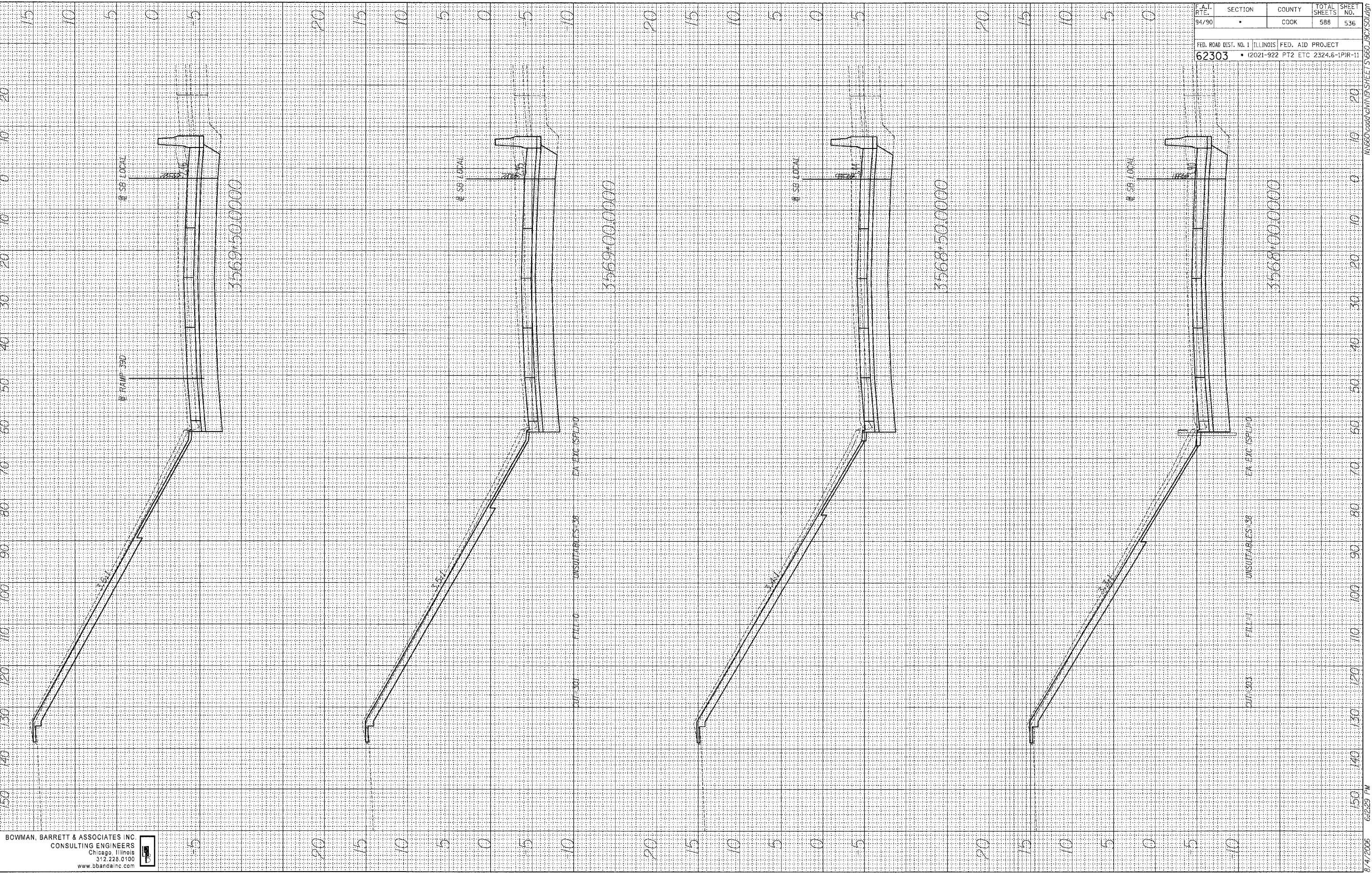


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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	535
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
62303		•1818, ETC, 2324.6-1PR-11		

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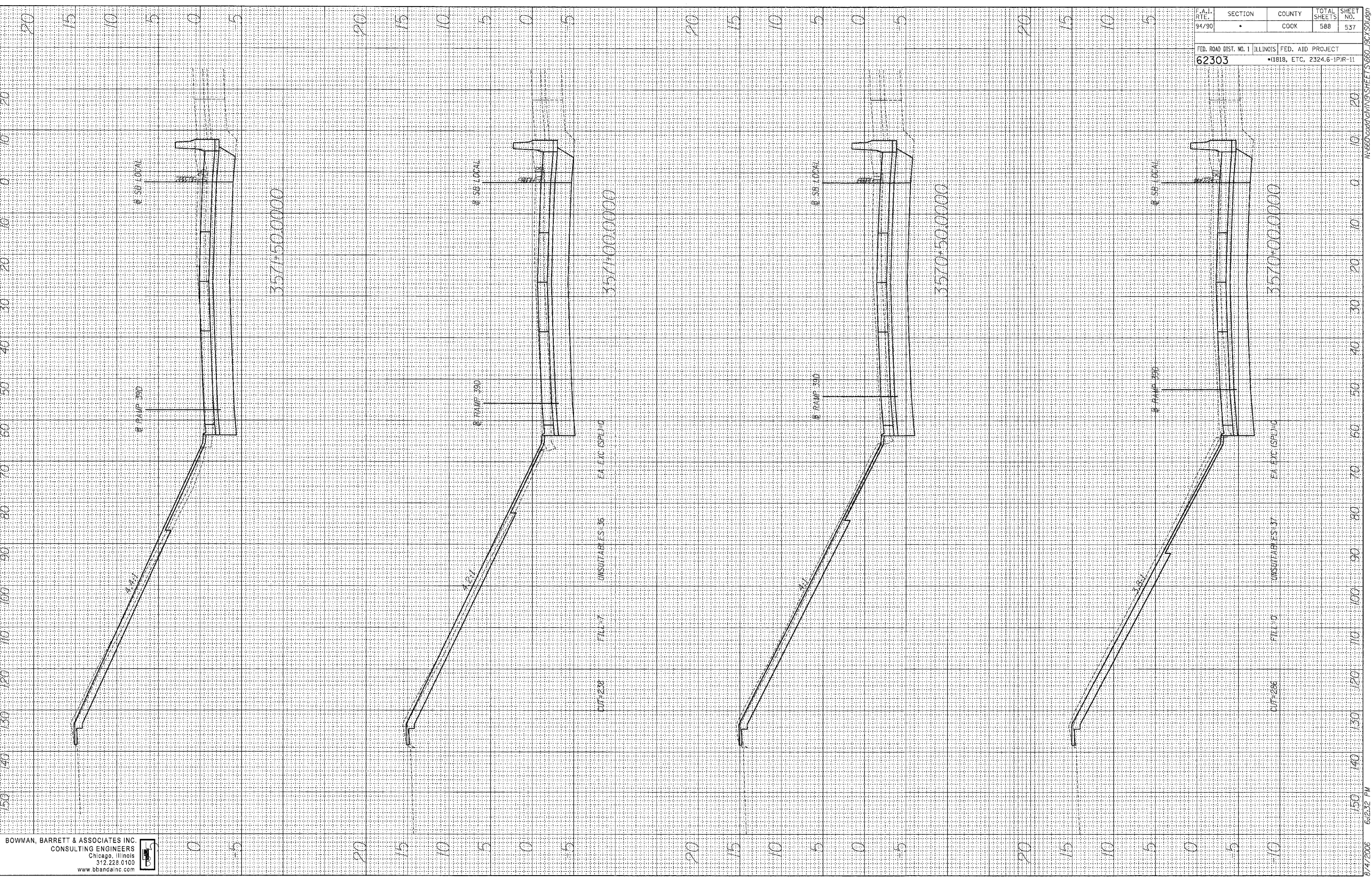
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	536
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62303 • (2021-922 PT2 ETC 2324.6-LPIR-11				

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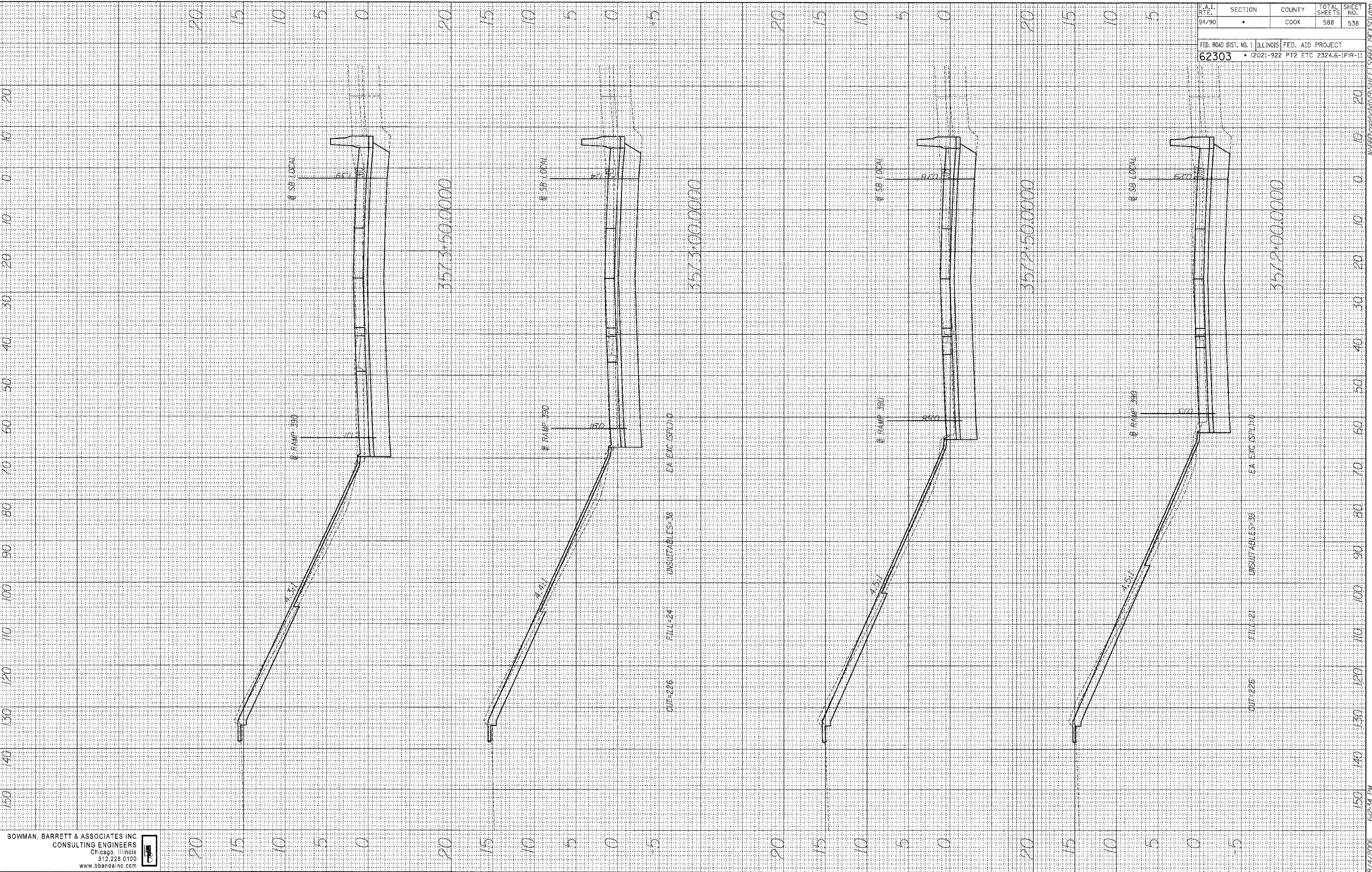
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94/90	*	COOK	588	537
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62303			•(1818, ETC, 2324.6-1P)R-11	

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	538
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
62303		• (2021-922 PT2 ETC 2324.6-IPR-11)		

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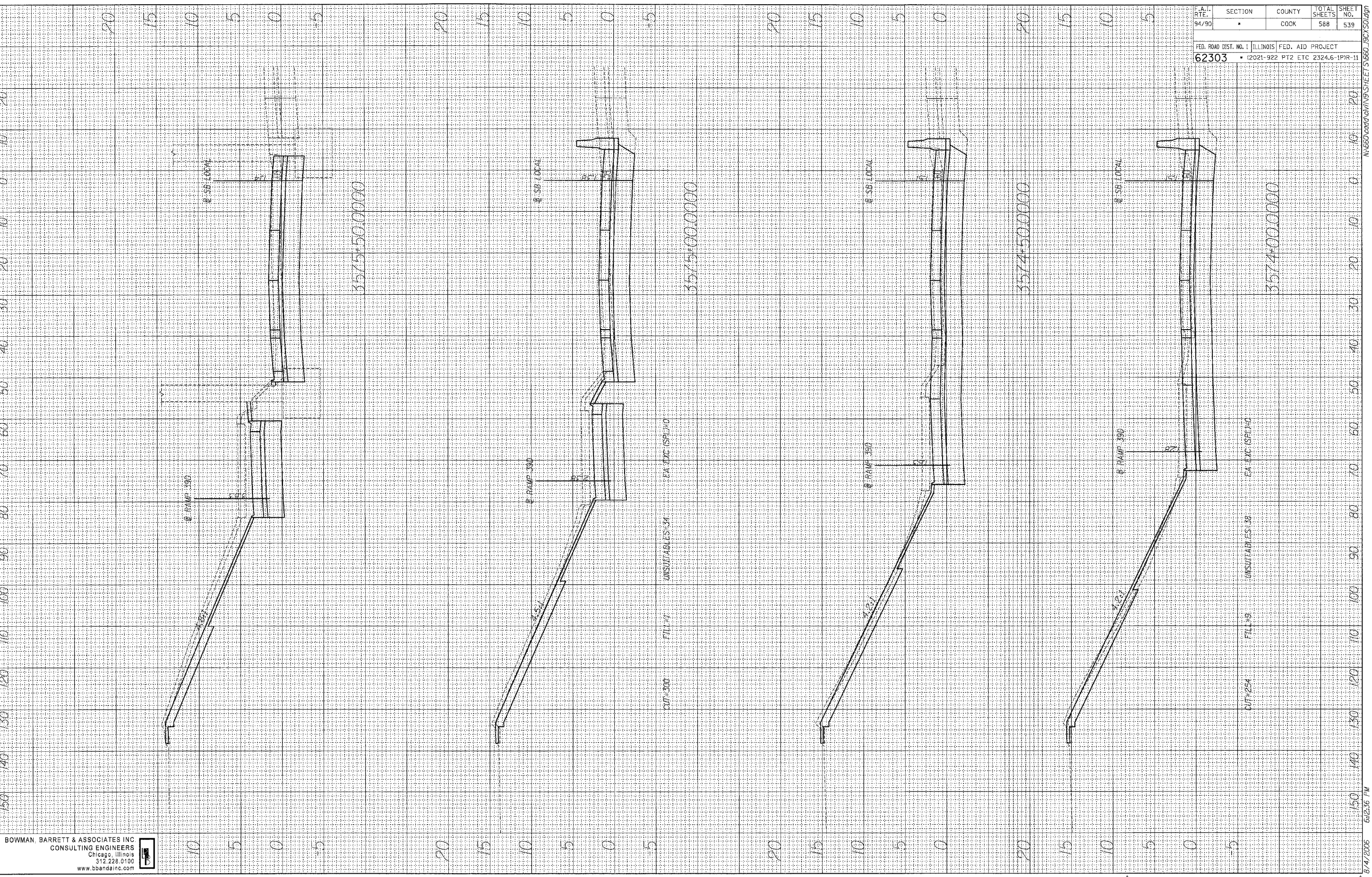
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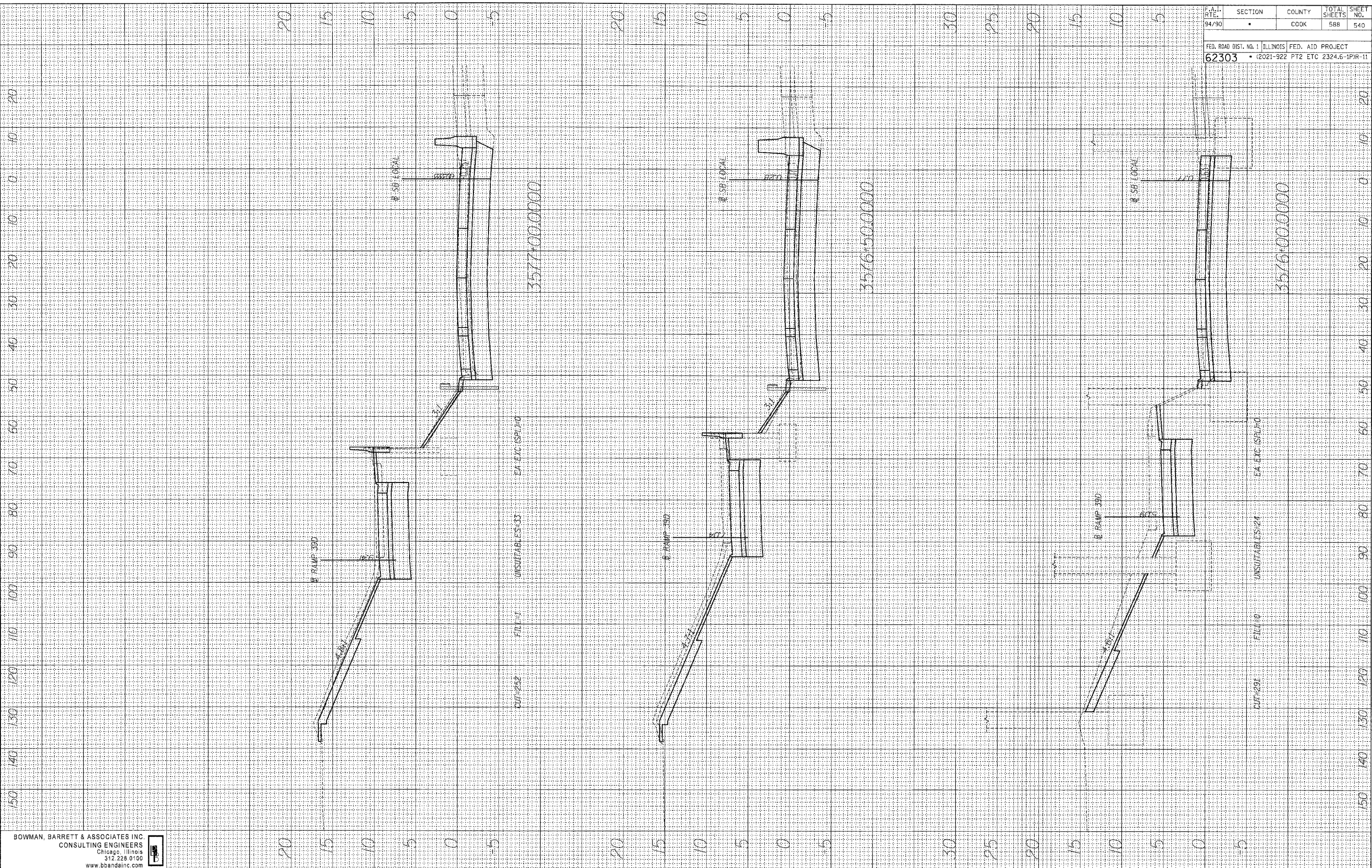


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A.I. RTE. 94/90	SECTION •	COUNTY COOK	TOTAL SHEETS 588	SHEET NO. 539
FED. ROAD DIST. NO. 1 62303		ILLINOIS FED. AID PROJECT • (2021-922 PT2 ETC 2324.6-1)PR-11		

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F.A.L. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	540

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
 62303 • (2021-922 PT2 ETC 2324.6-1P)R-11

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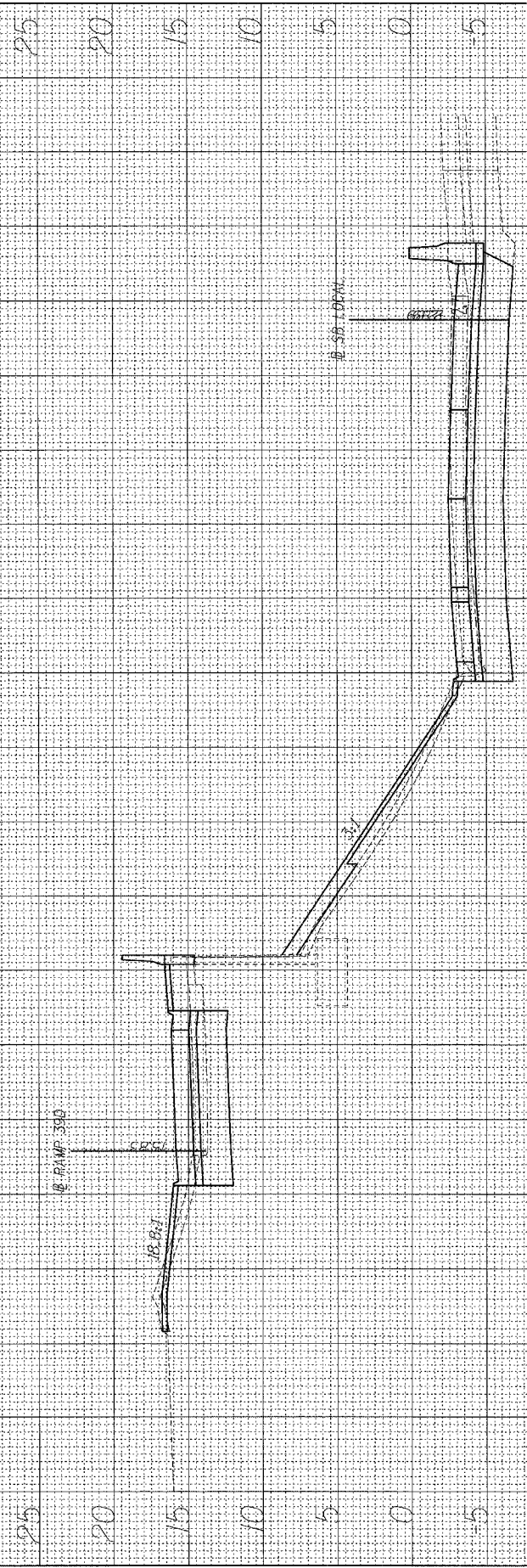
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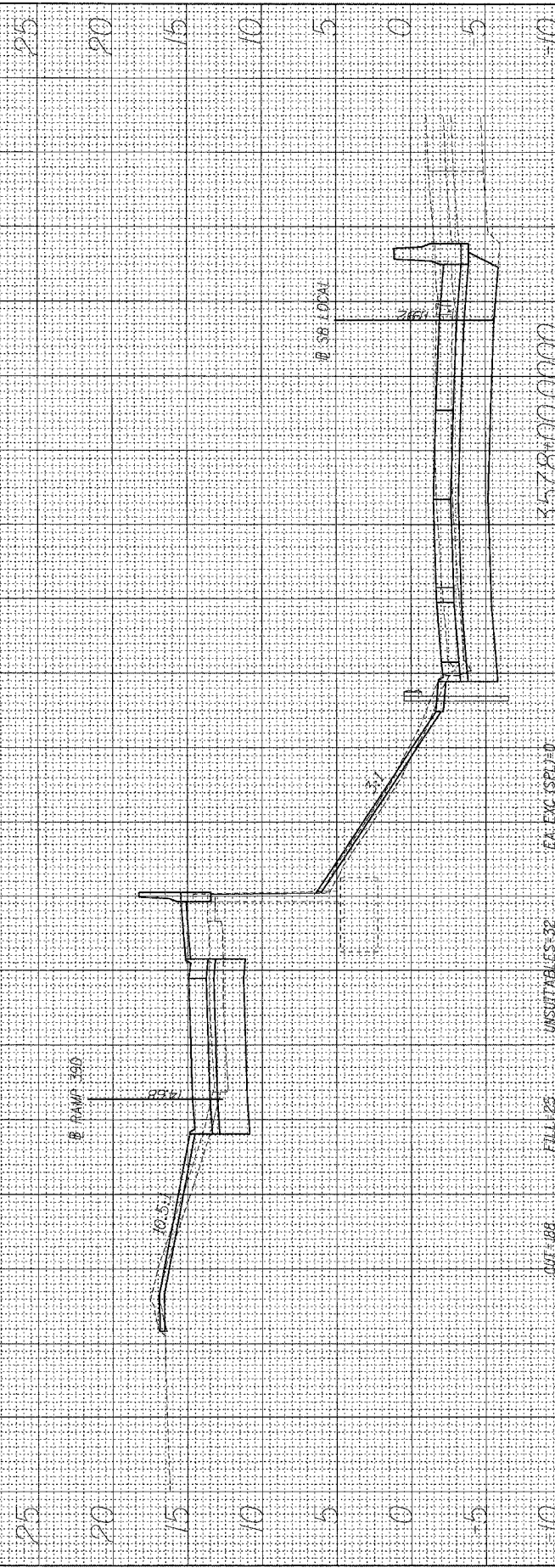
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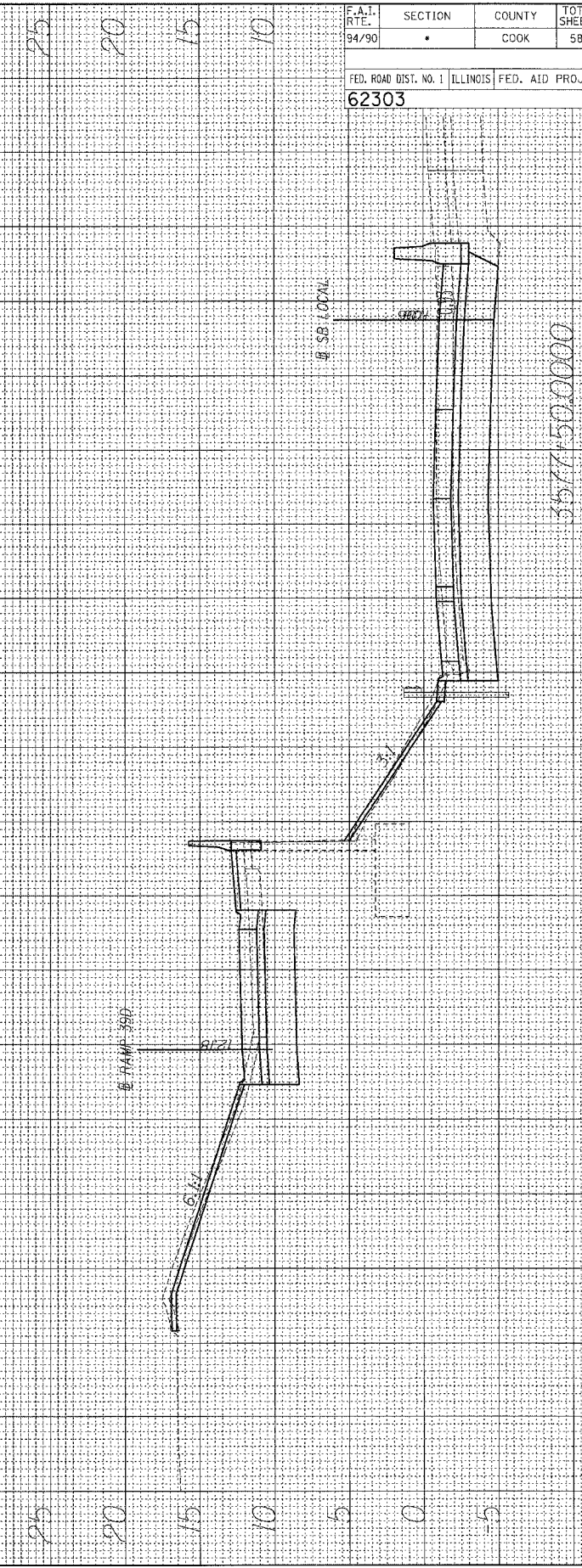


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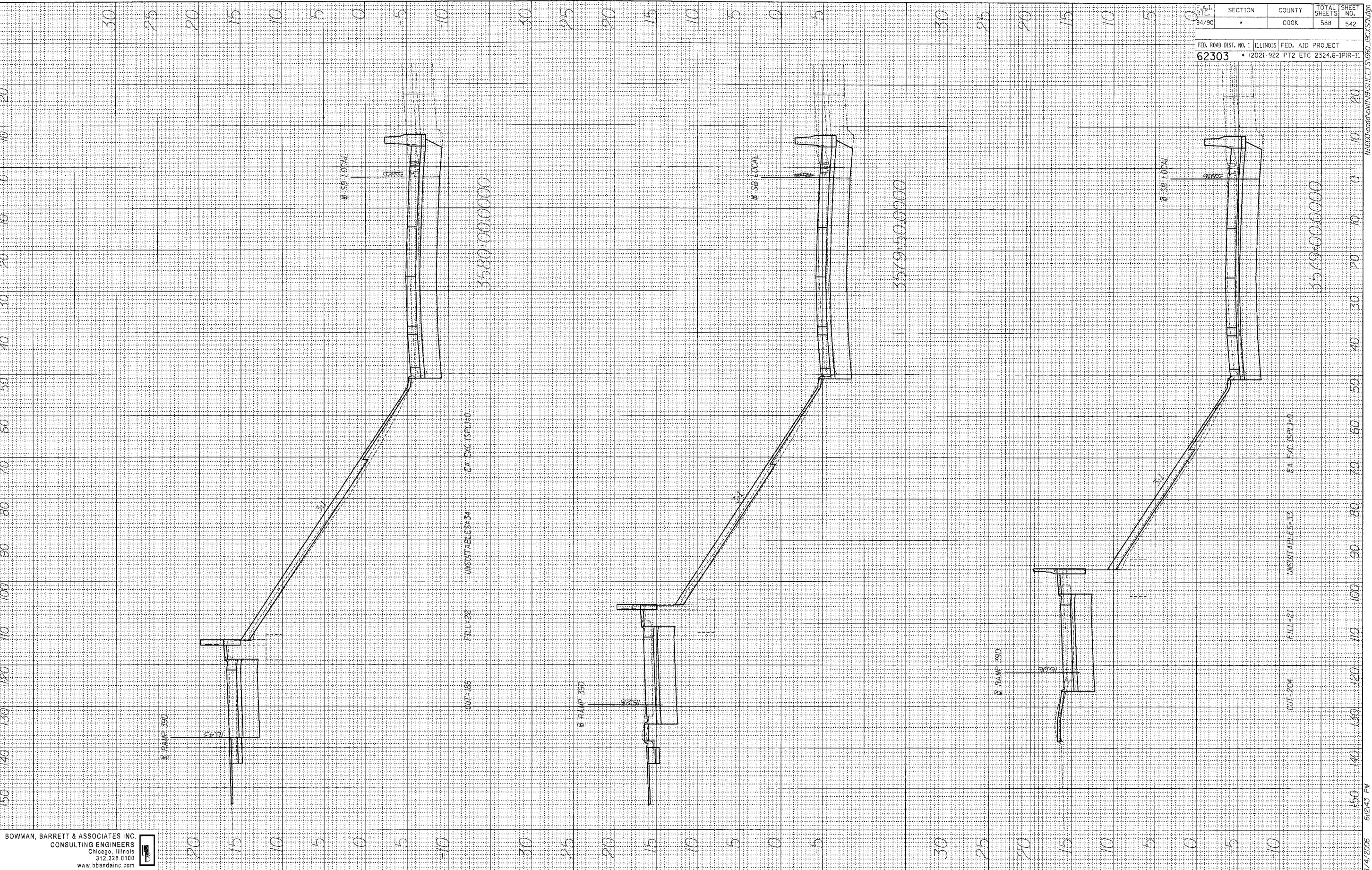
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F.A.I. R.T.E. 94/90	SECTION *	COUNTY COOK	TOTAL SHEETS 588	SHEET NO. 541
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62303				

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F.A.I. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	542

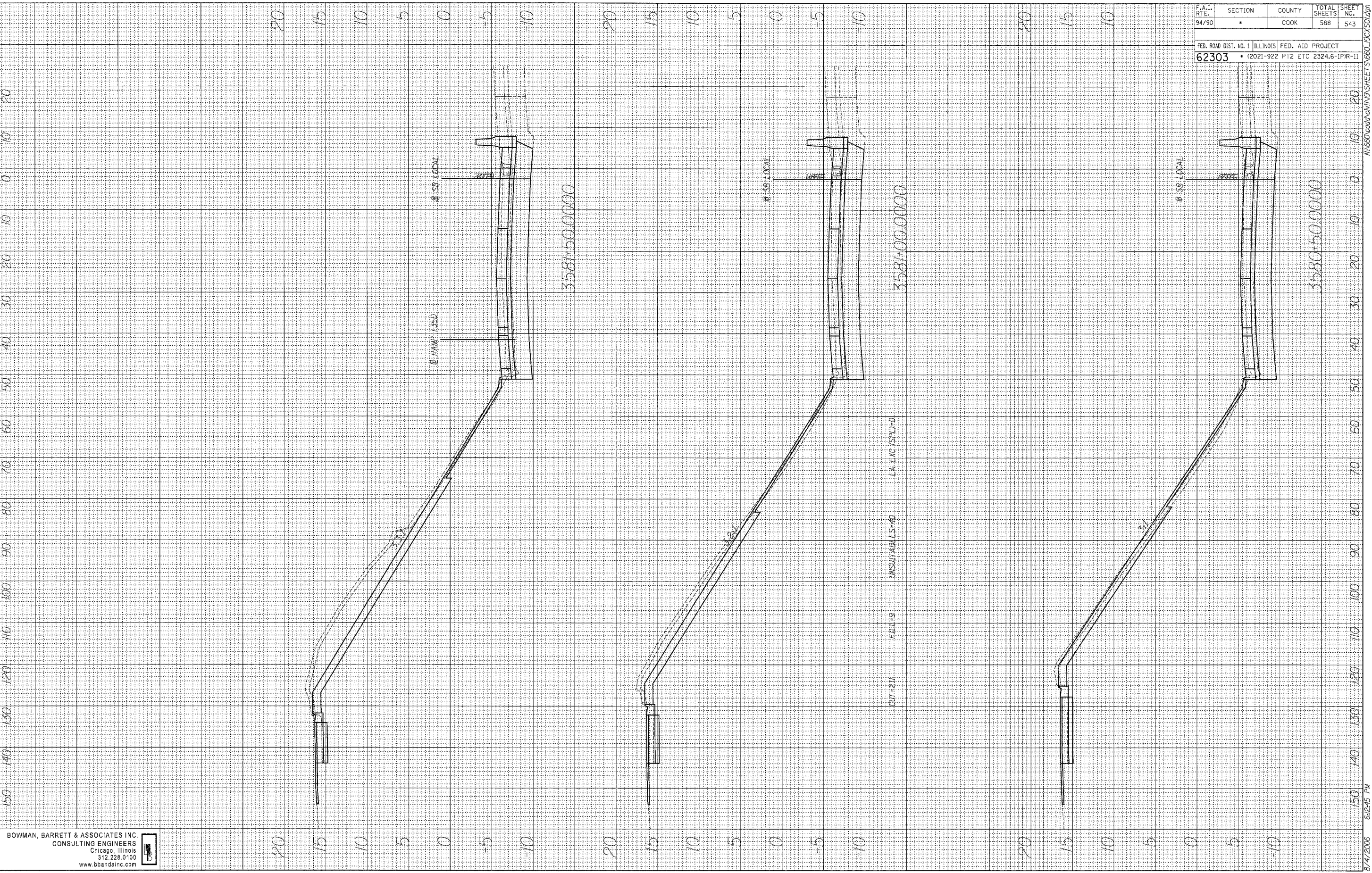
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 62303 • (2021-922 PT2 ETC 2324.6-1PR-11)

ADDENDUM 2 8/04/06

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F.A.I. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	543

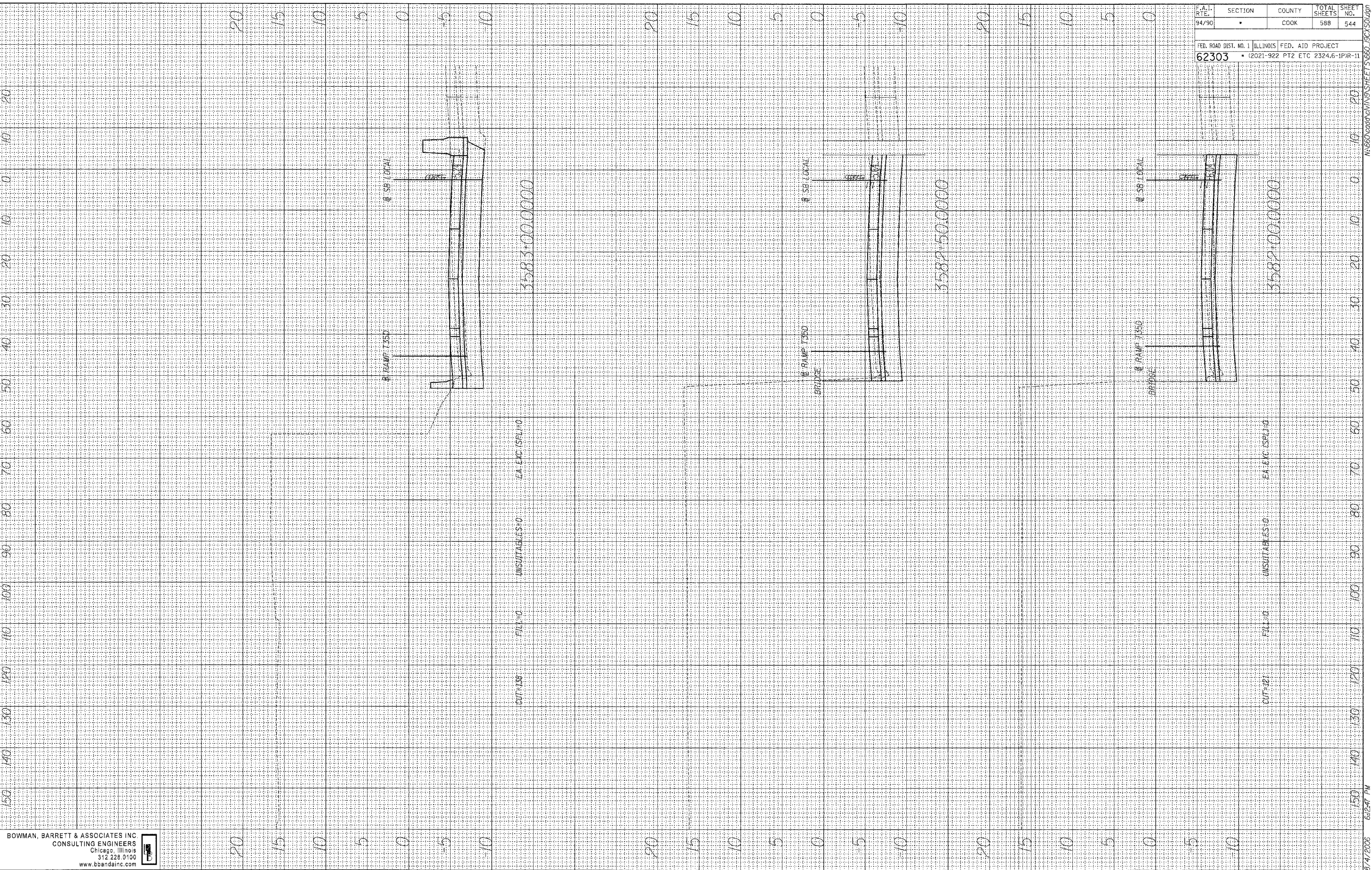
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT
62303		(2021-922 PT2 ETC 2324.6-1PIR-11

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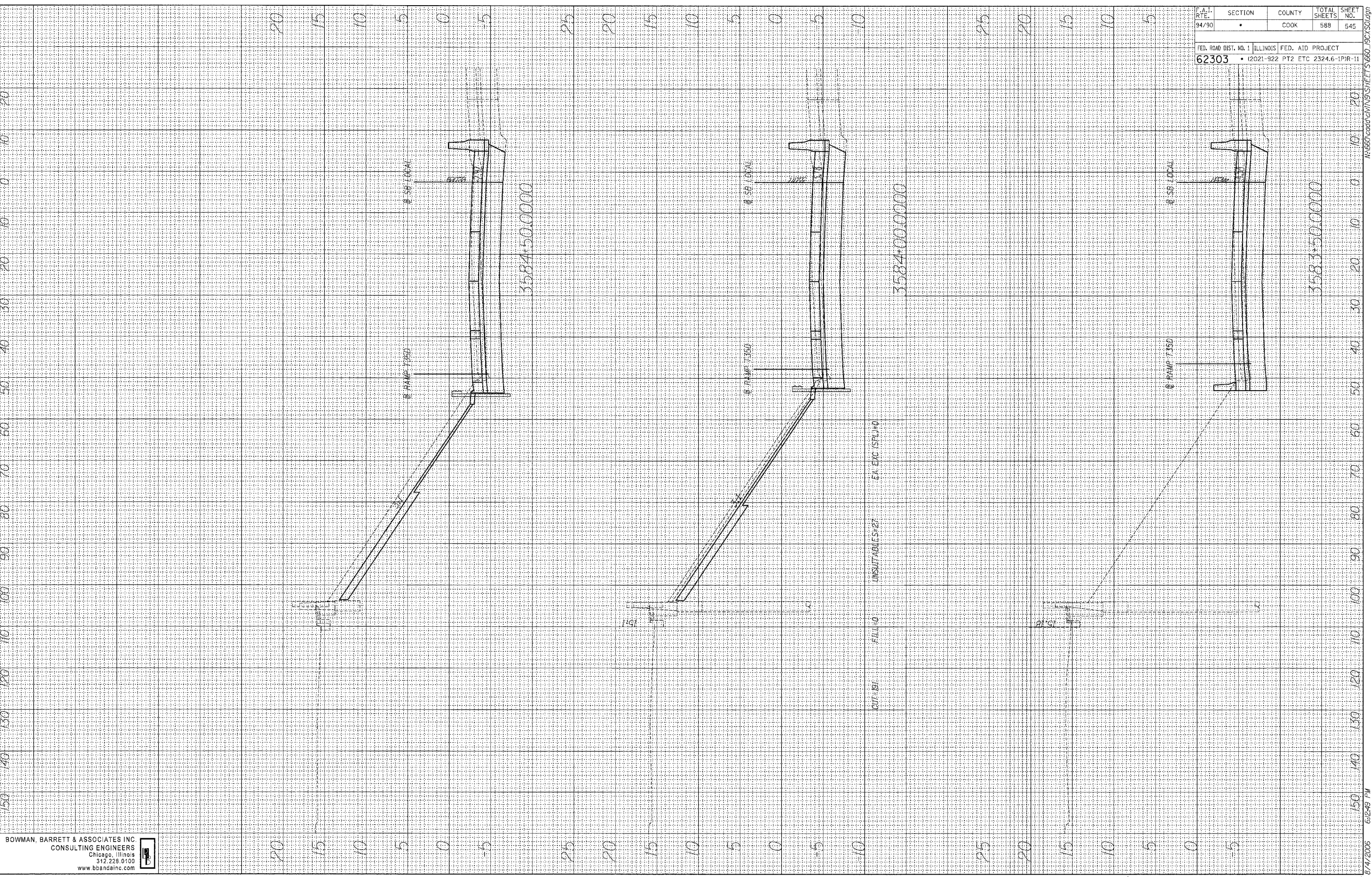
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT 62303 • (2021-922 PT2 ETC 2324.6-1PIR-11)				

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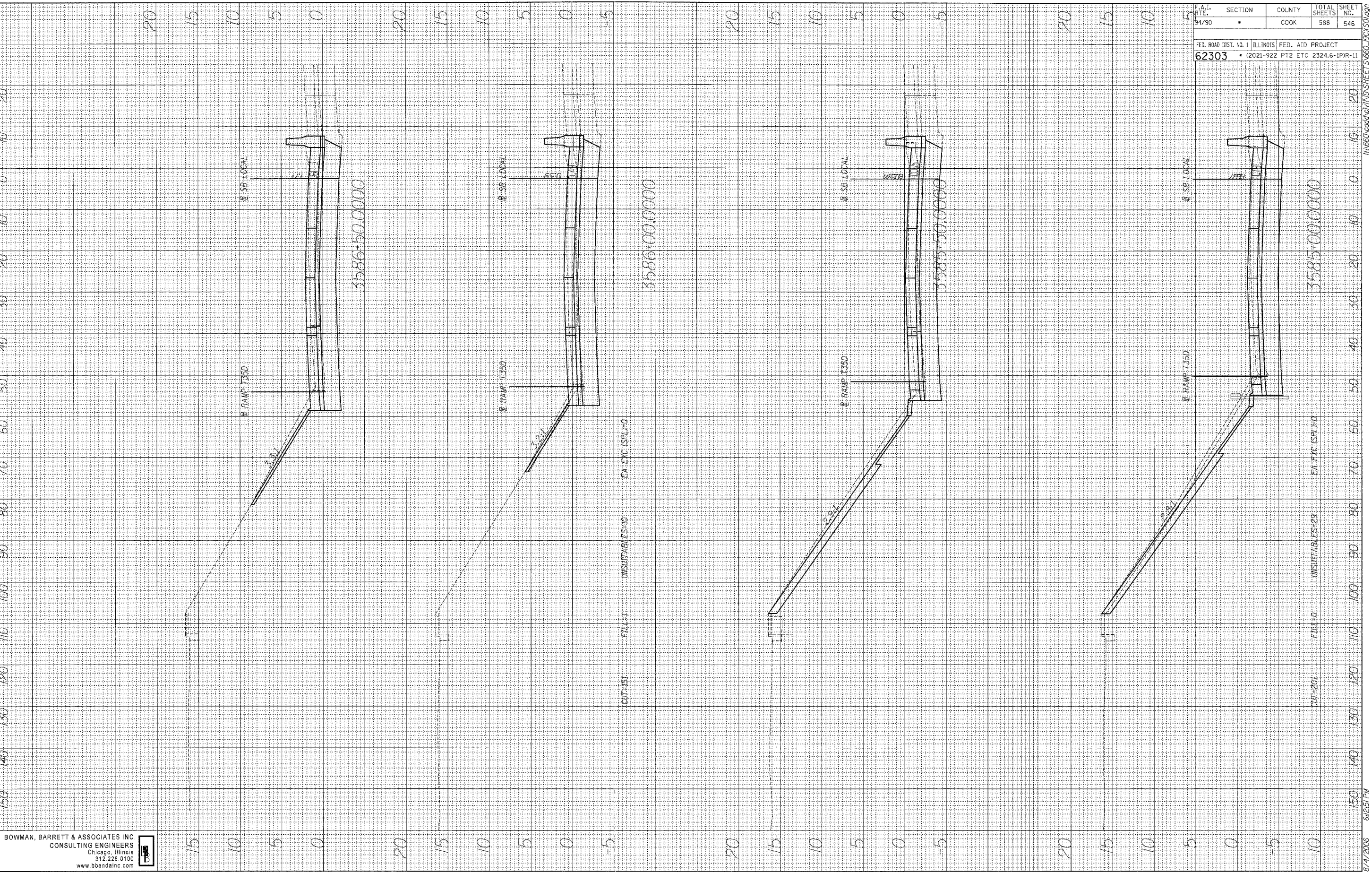
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
 62303 • (2021-922 PT2 ETC 2324.6-1PIR-11)

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ORIGINAL SURVEY NOTE BOOK NO.	DATE
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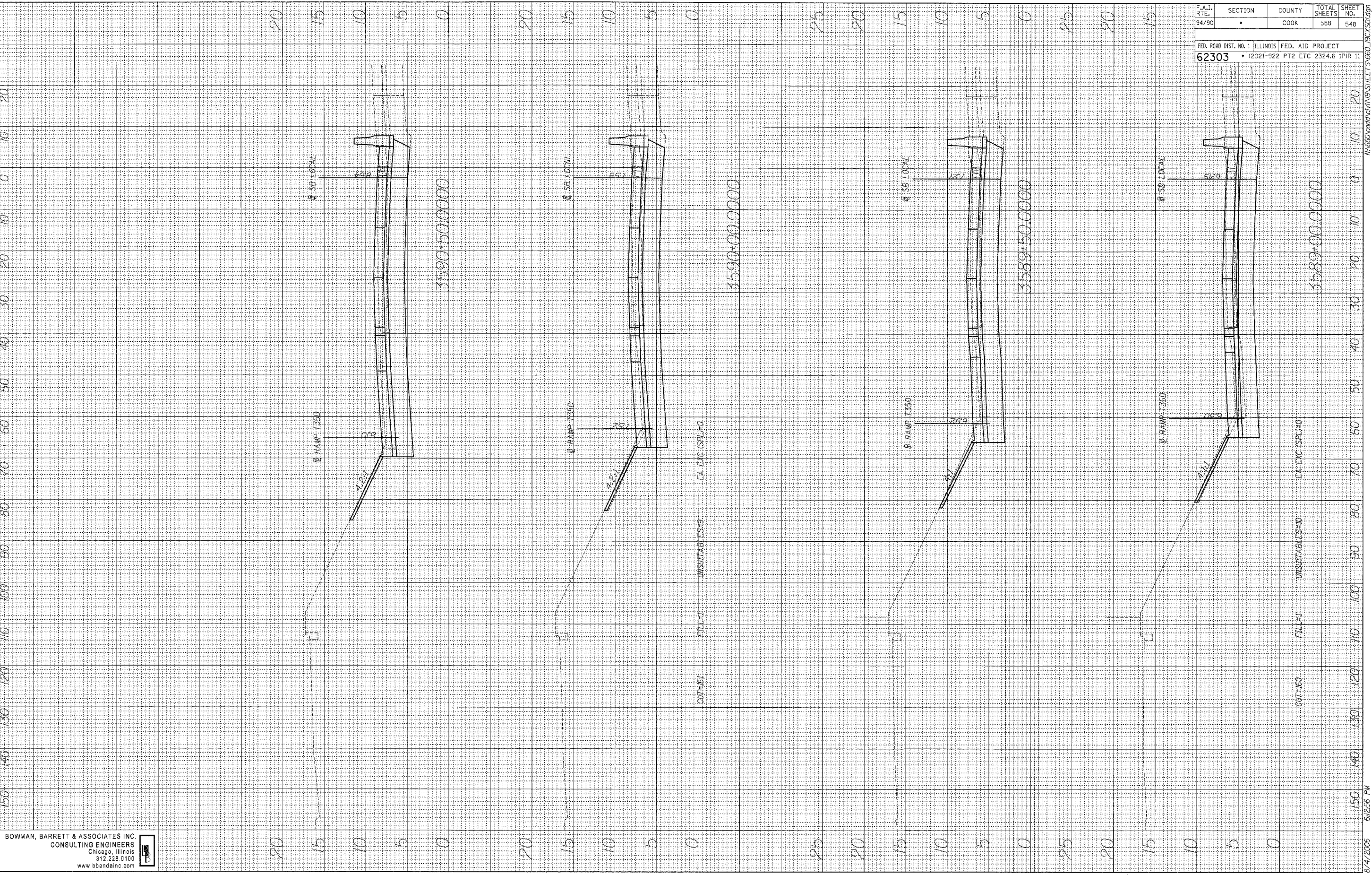
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F.A.I. DATE: 8/4/90	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	588	546
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		
62303		(2021-922 PT2 ETC 2324.6-1PJR-11)		

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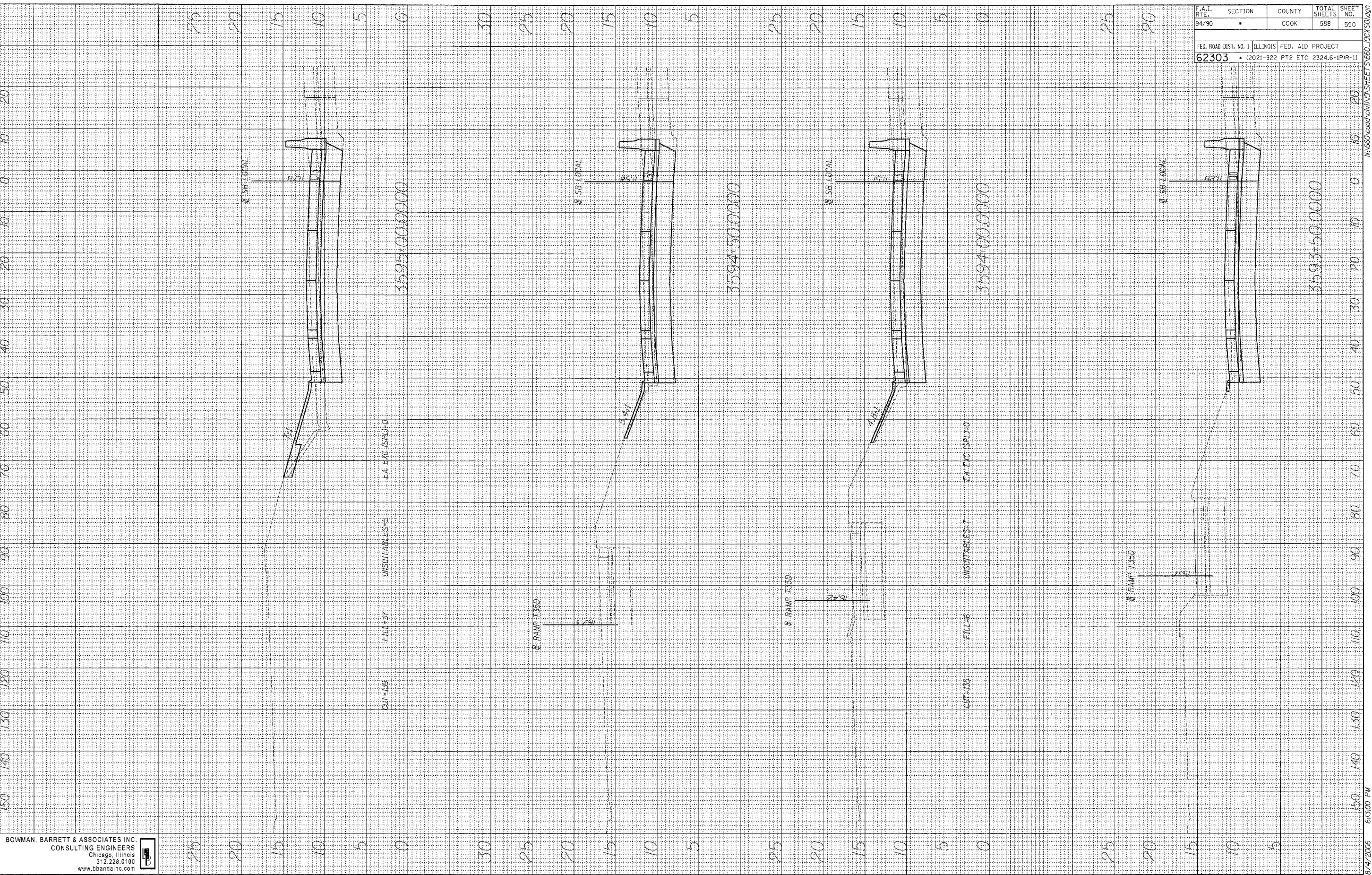
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94/90	*	COOK	588	548

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
 62303 • (2021-922 PT2 ETC 2324.6-1PIR-11)

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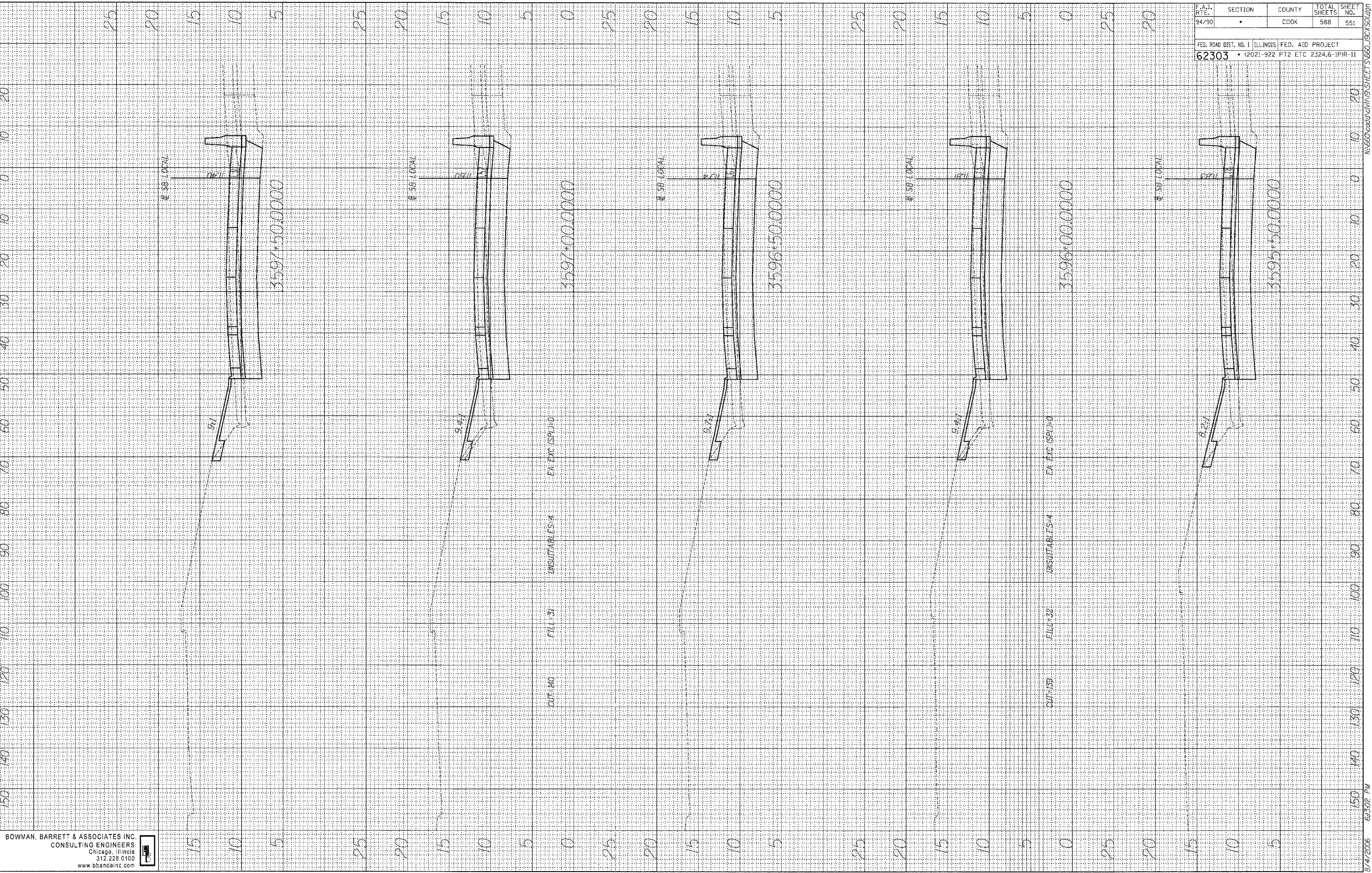


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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	550
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62303 • (2021-922 PT2 ETC 2324.6-1PIR-11				

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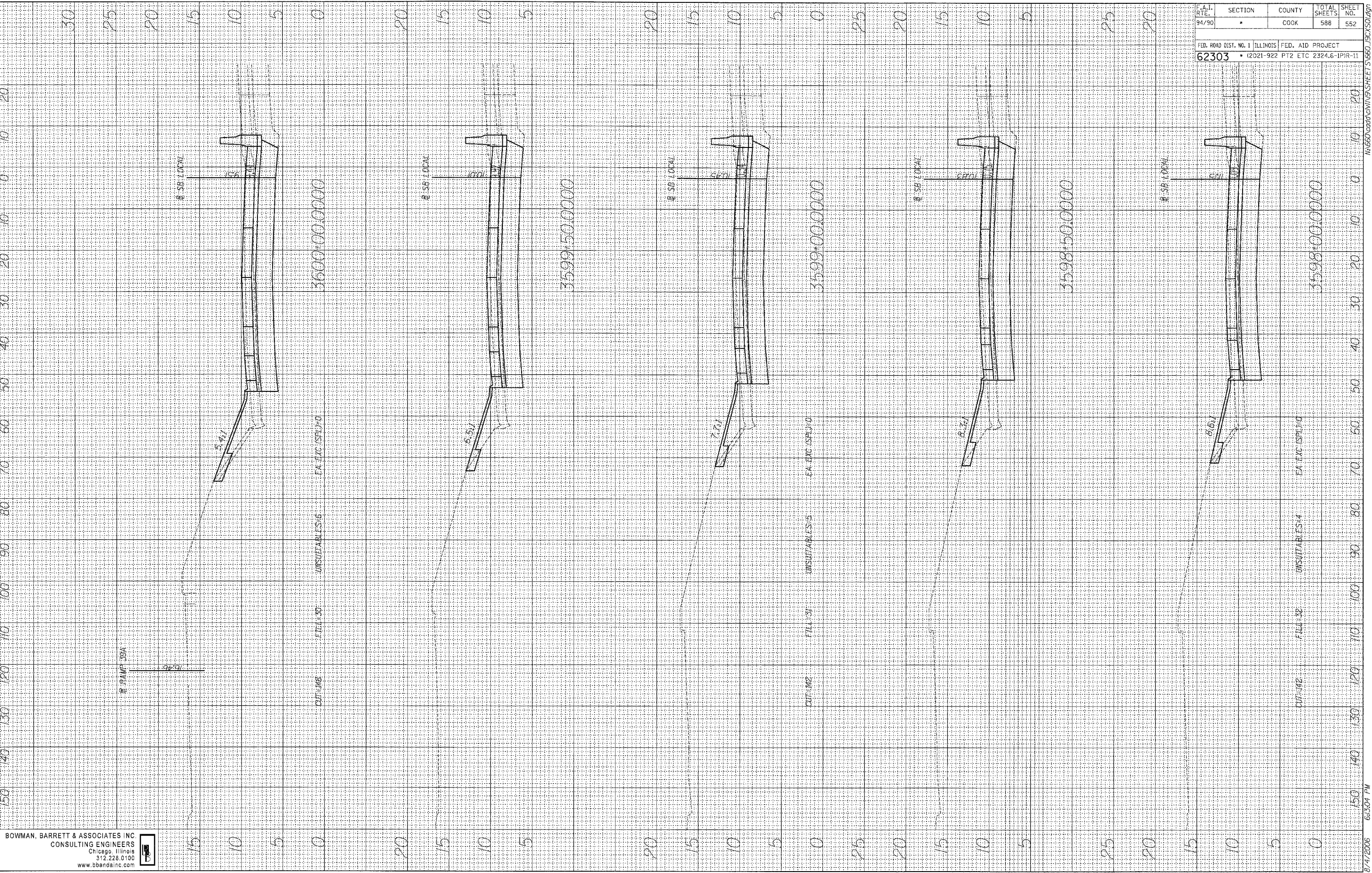
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	588	551
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
62303			• (2021-922 PT2 ETC 2324.6-1PIR-11	

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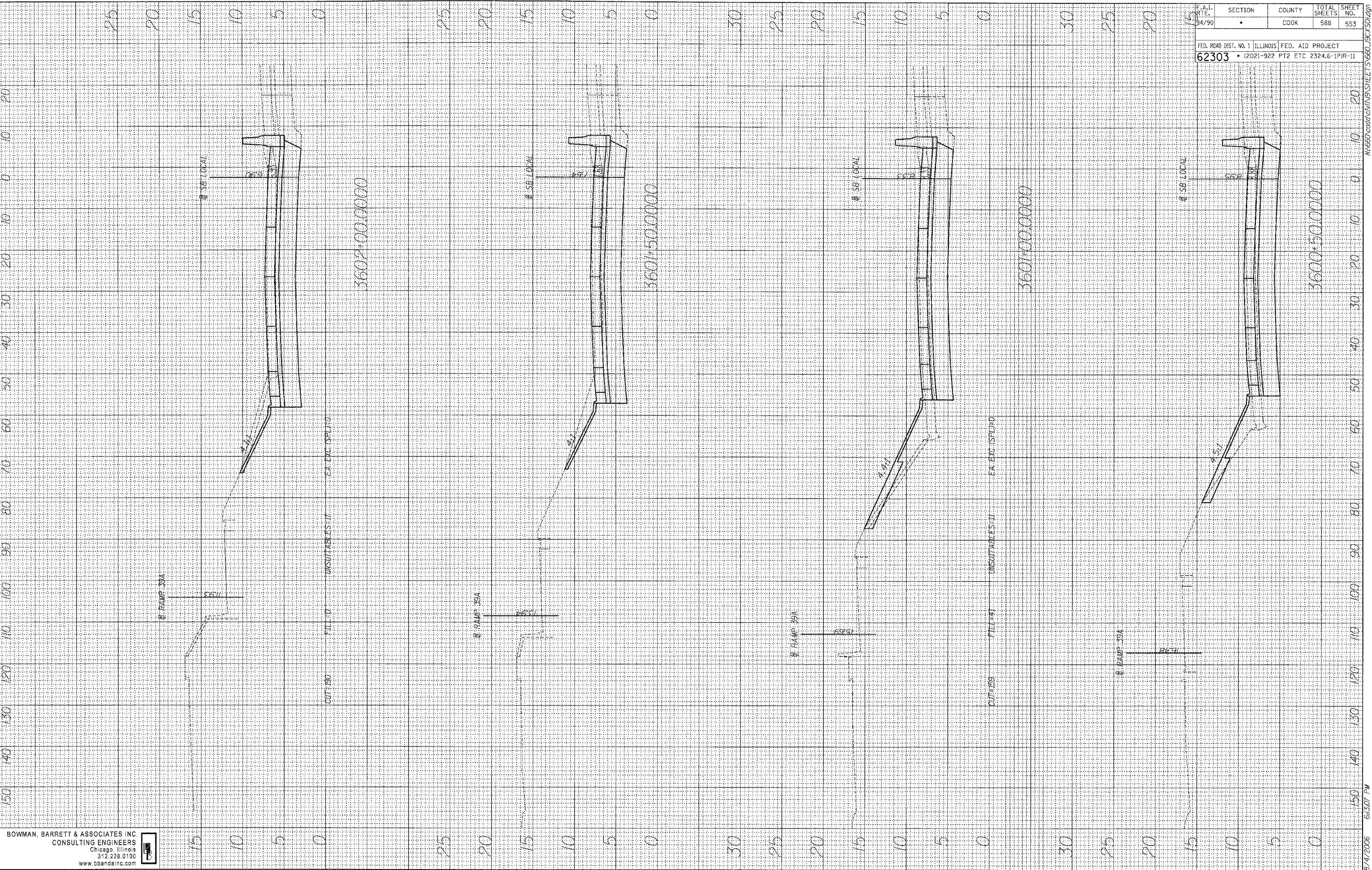
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F.A.I. RTE. 94/90	SECTION •	COUNTY COOK	TOTAL SHEETS 588	SHEET NO. 552
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62303 • (2021-922 PT2 ETC 2324.6-1PIR-11)				

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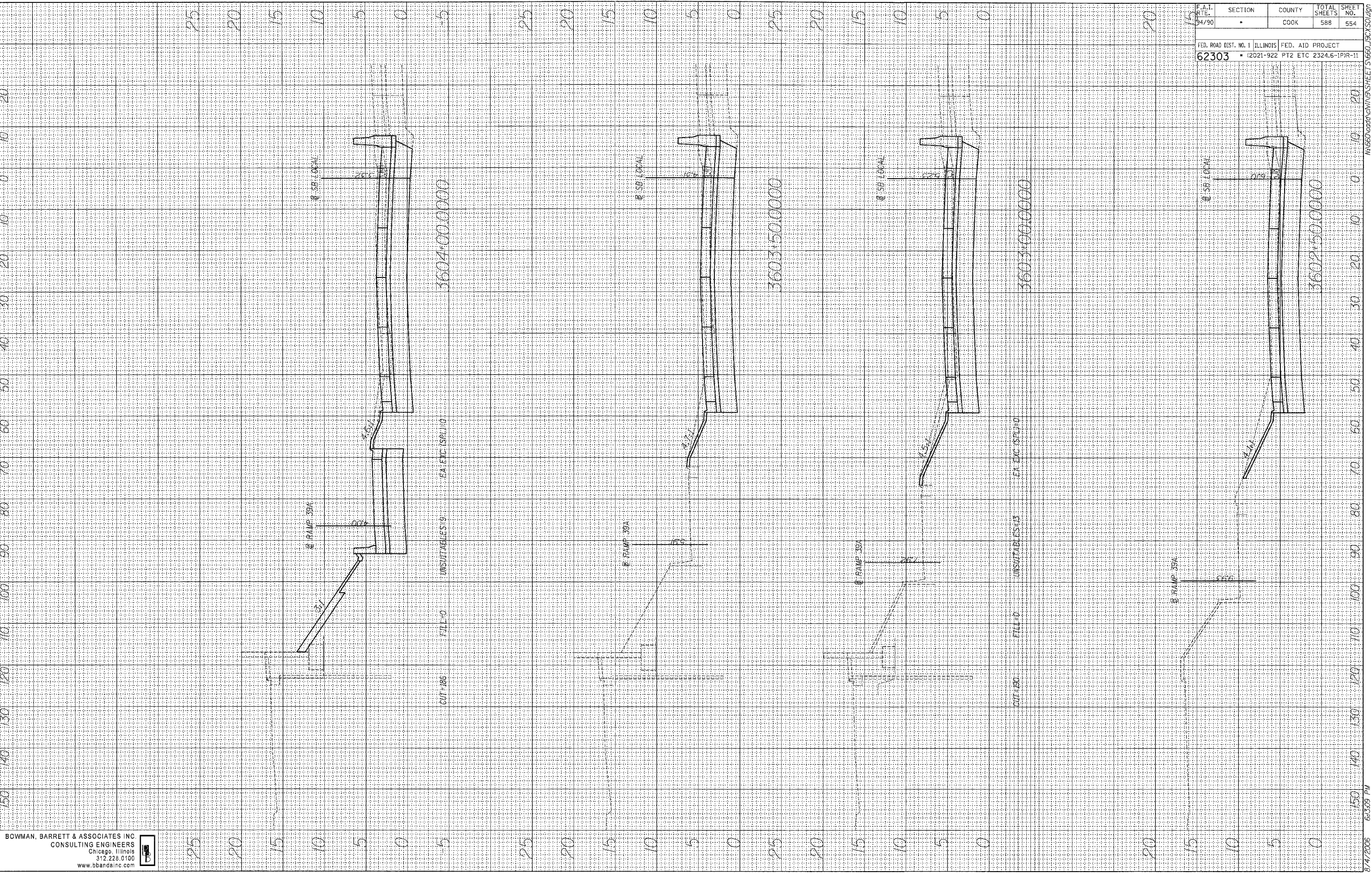
F.A.I. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	553

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
 62303 • (2021-922 PT2 ETC 2324.6-1P/R-11

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F.A.T. R.T.E. 94/90	SECTION •	COUNTY COOK	TOTAL SHEETS 588	SHEET NO. 554
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62303 • (2021-922 PT2 ETC 2324.6-1)PR-11				

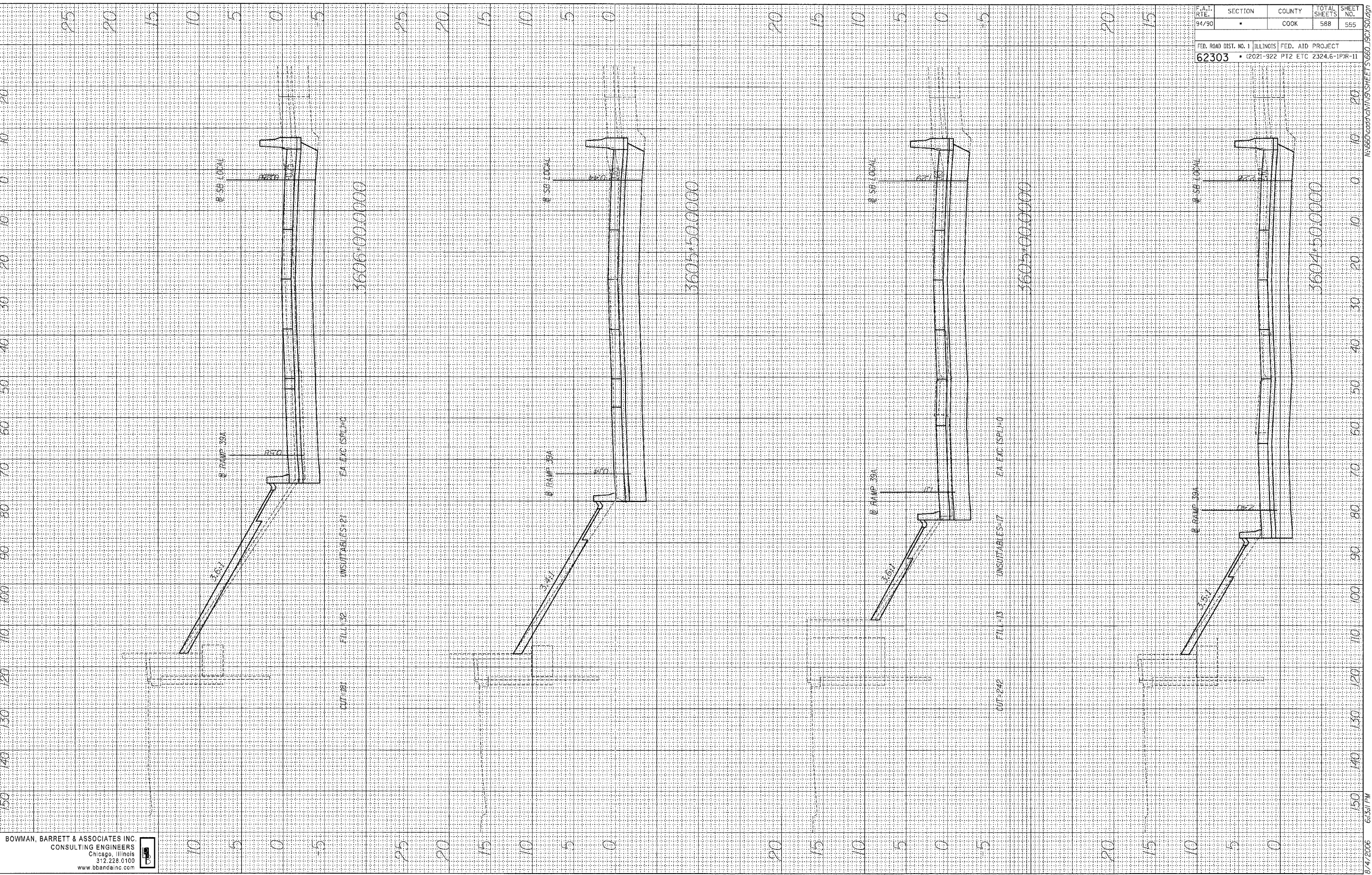
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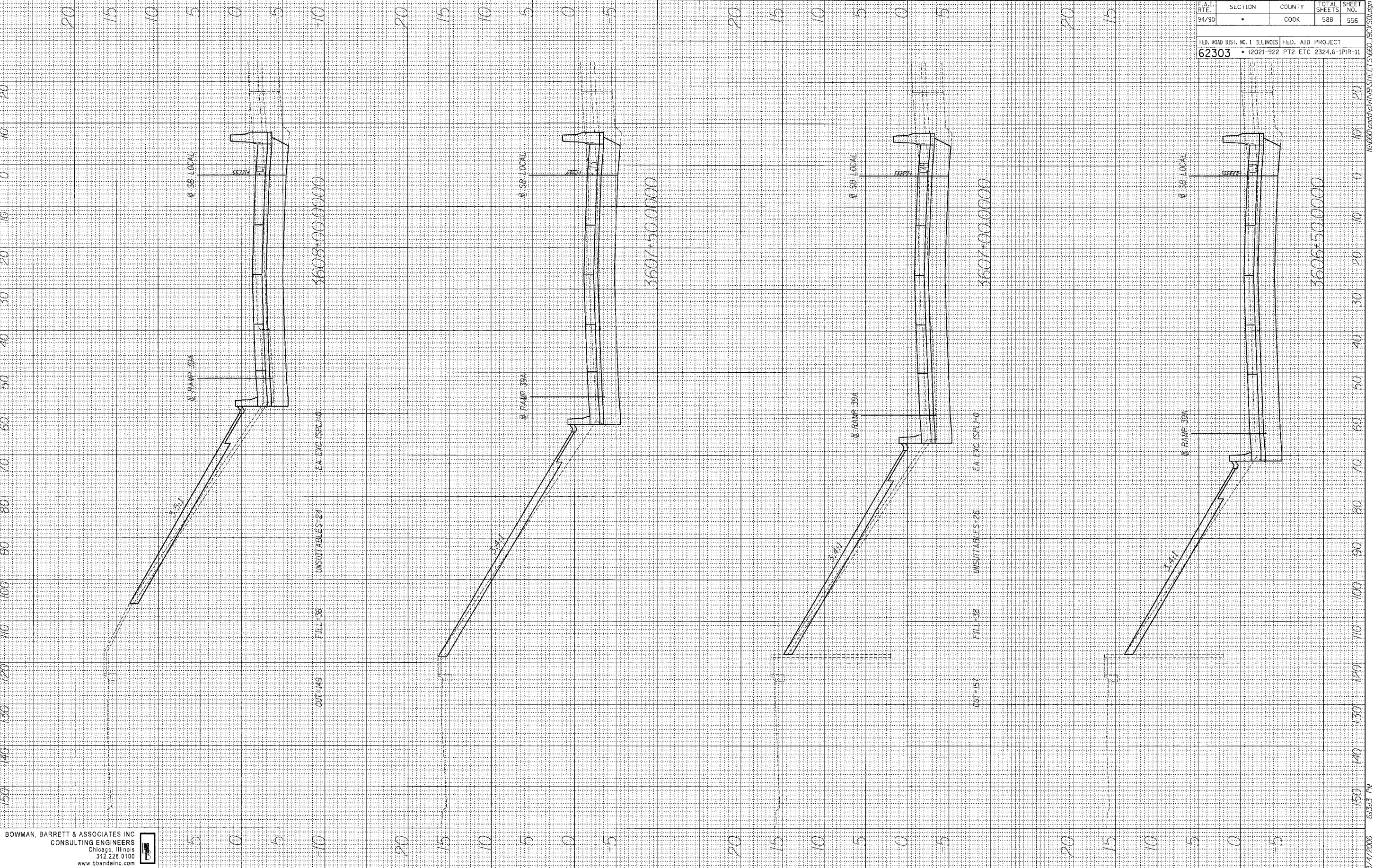
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94/90	•	COOK	588	555
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62303 • (2021-922 PT2 ETC 2324.6-1PR-11				

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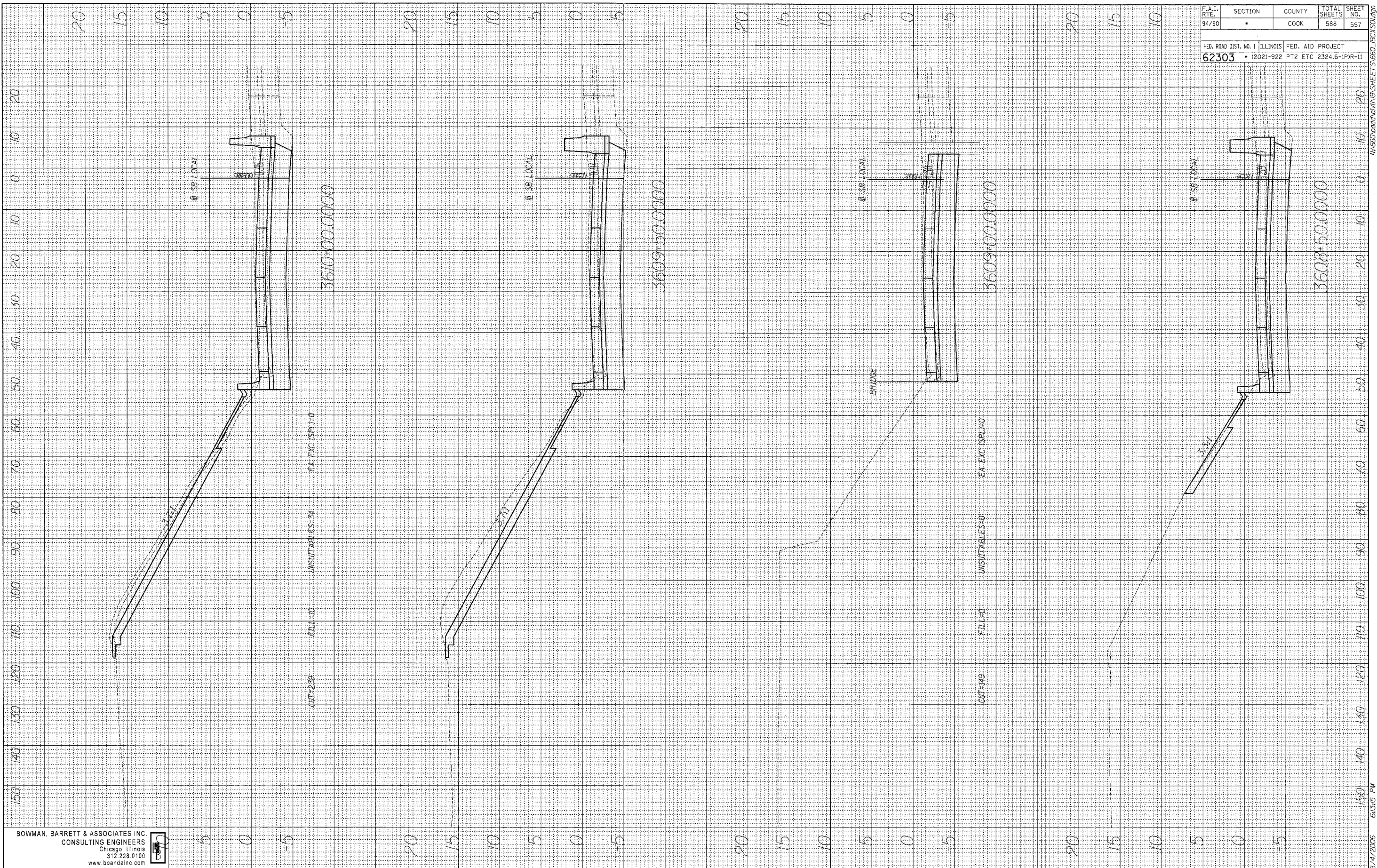
F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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F.A.I. RTE. 94/90	SECTION •	COUNTY COOK	TOTAL SHEETS 588	SHEET NO. 557
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62303 • (2021-922 PT2 ETC 2324.6-1PJR-11				

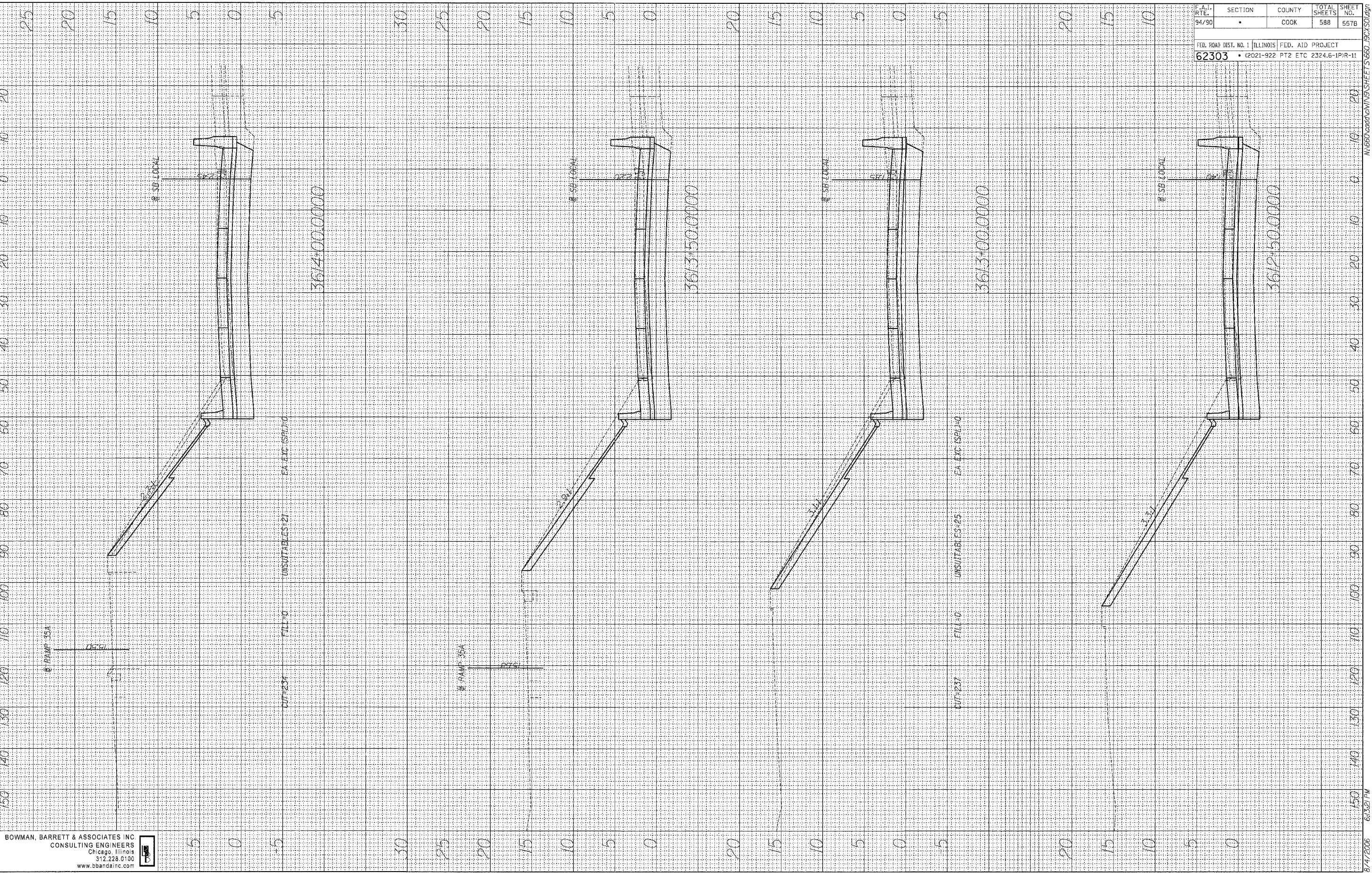


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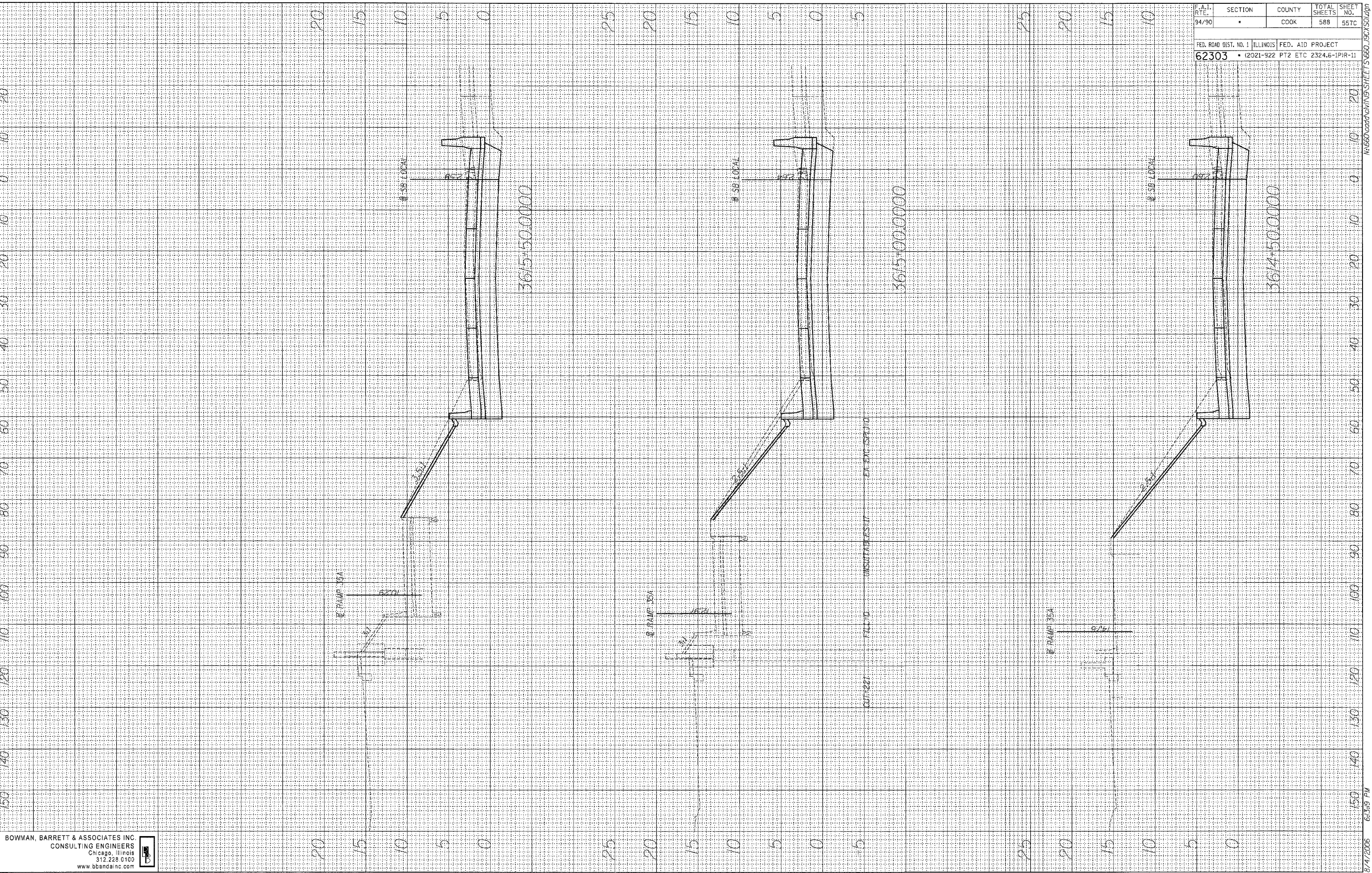
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	•	COOK	588	557B
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62303 • (2021-922 PT2 ETC 2324.6-1PIR-11				

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FINAL SURVEY	DATE
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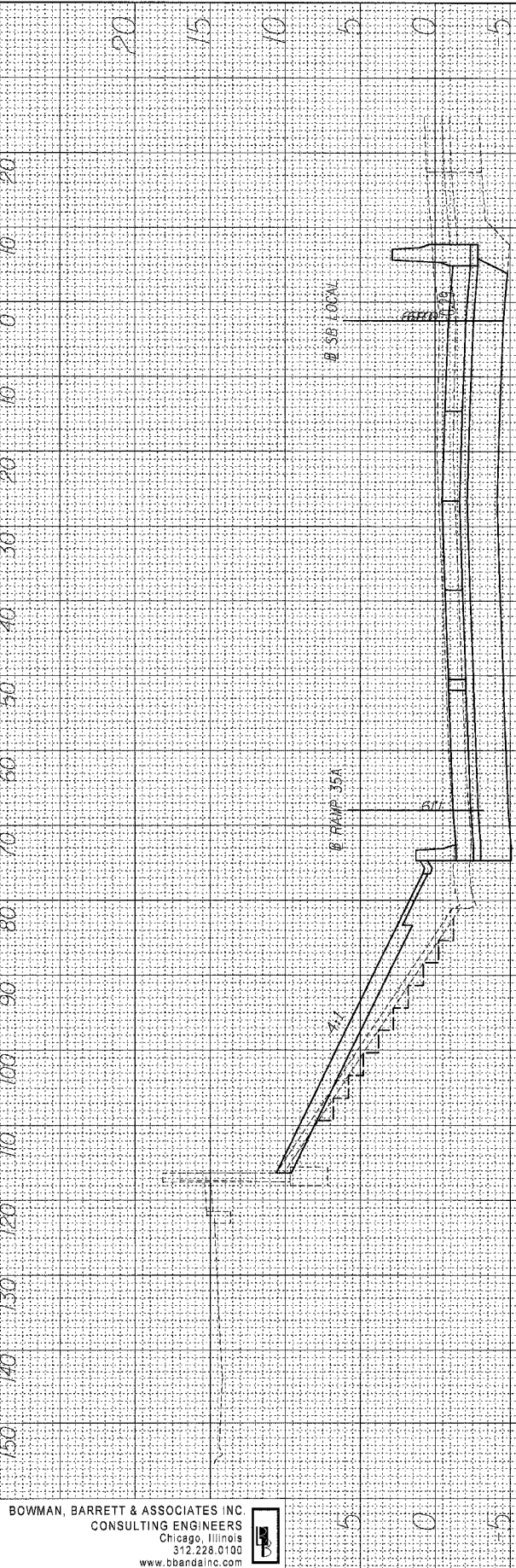
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94/90	*	COOK	588	557C
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
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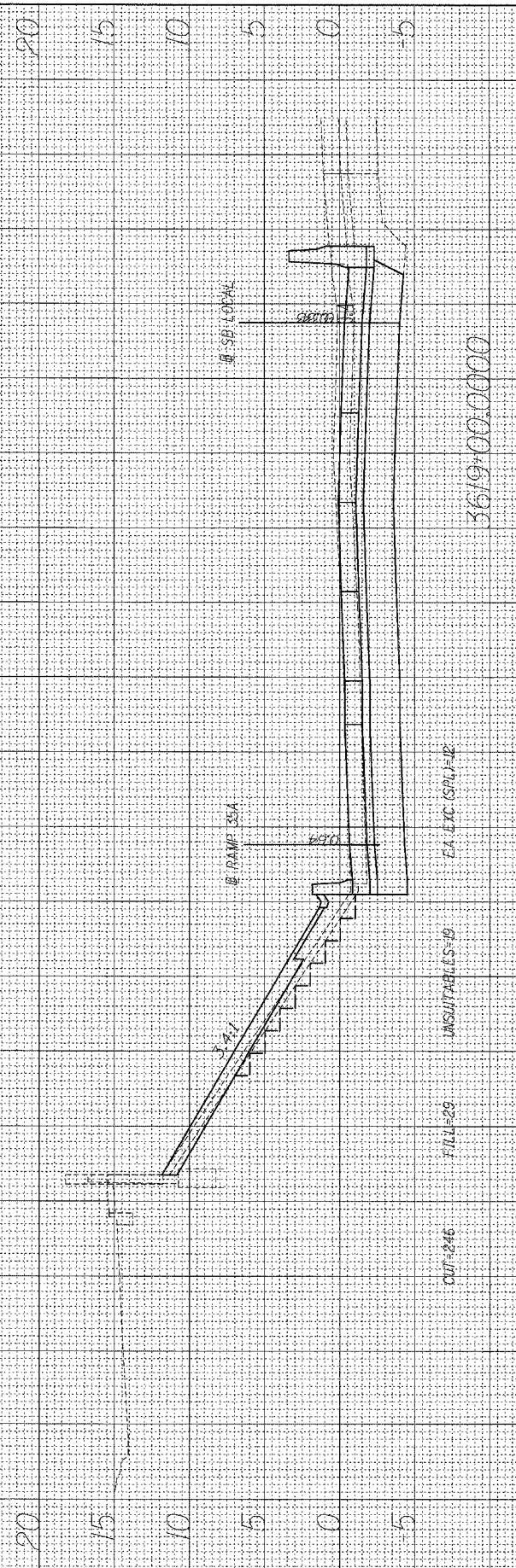
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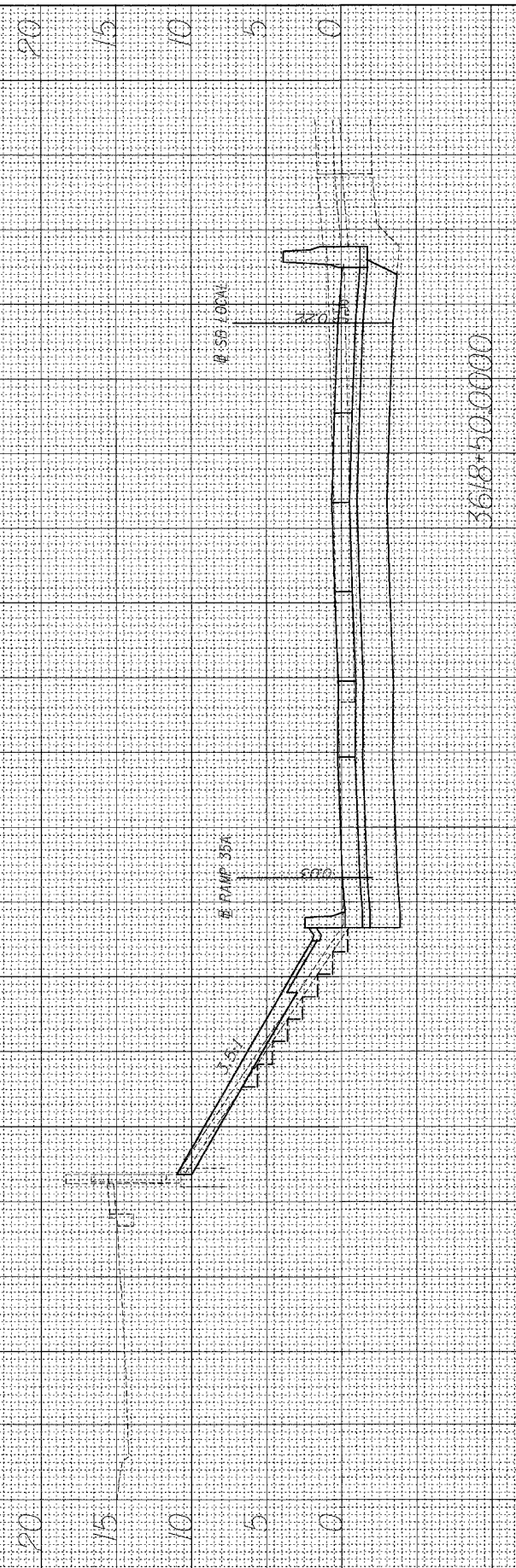
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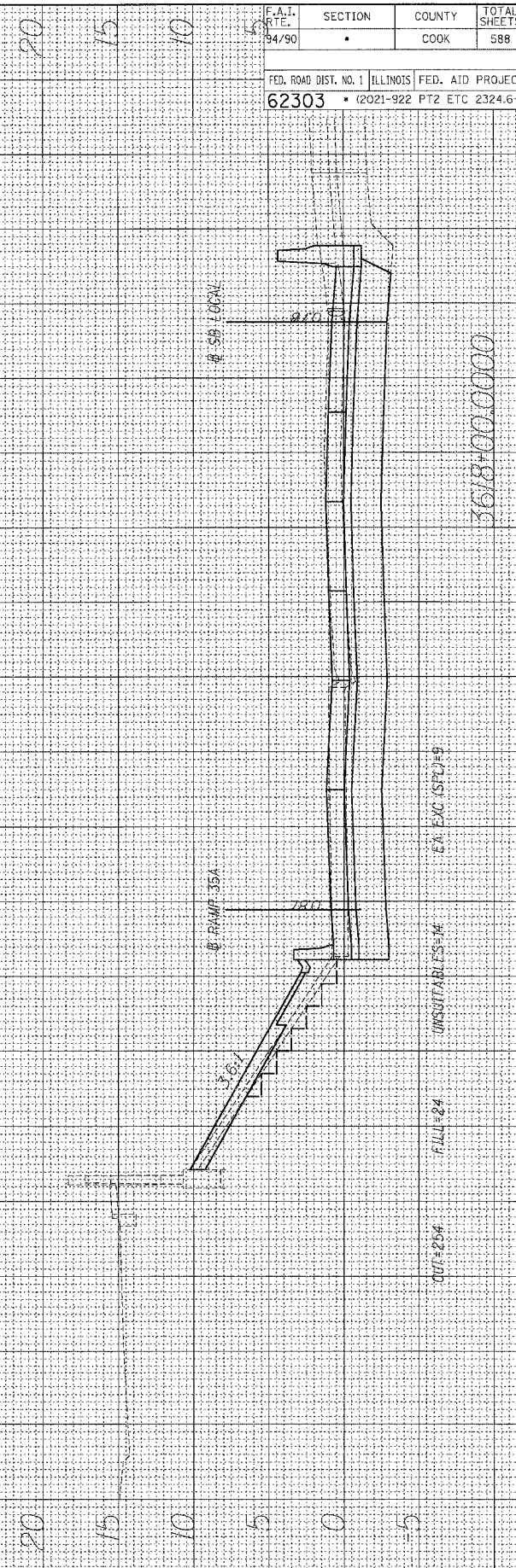
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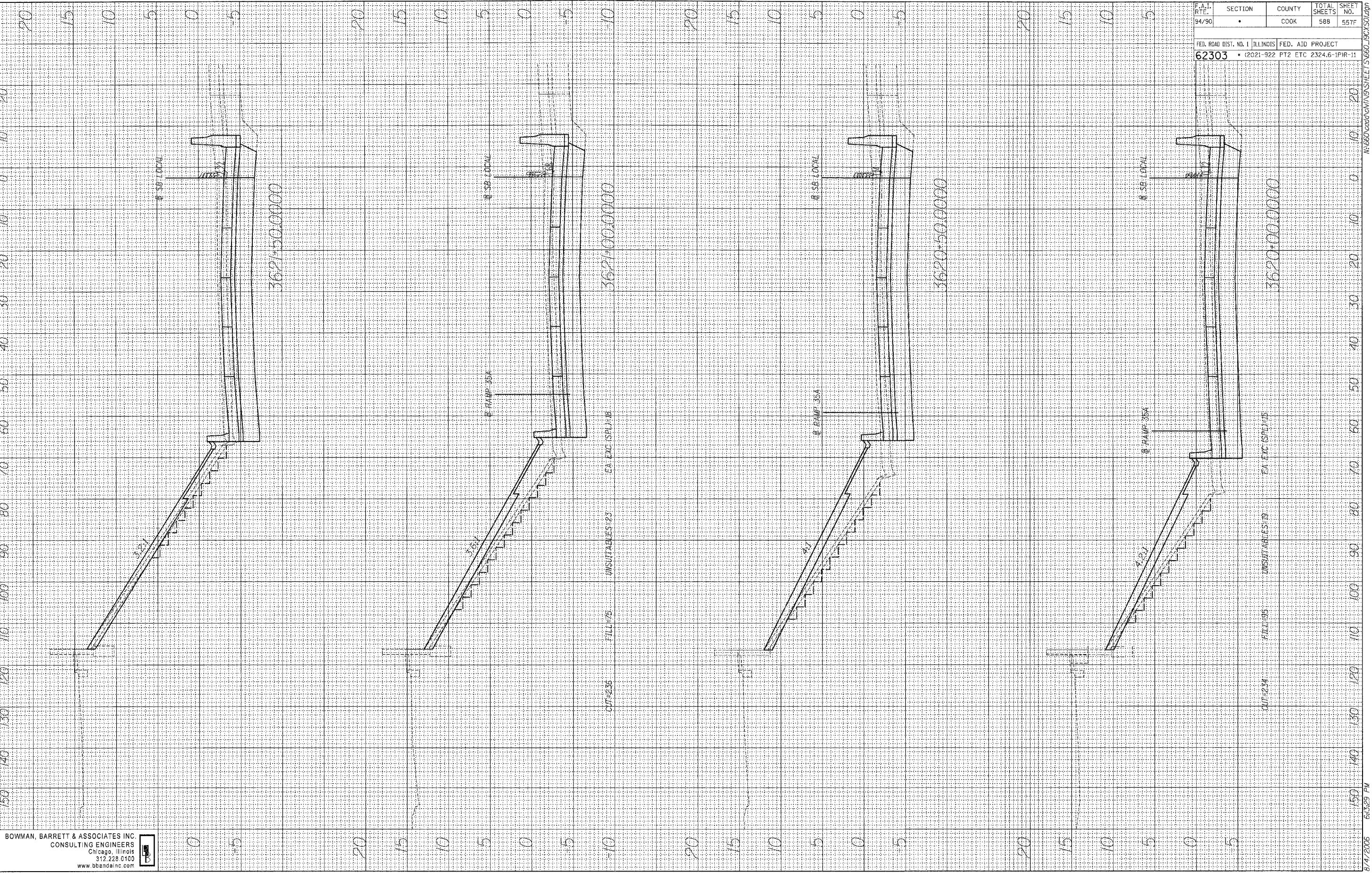
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT
62303		2021-922 PT2 ETC 2324.6-1PIR-11

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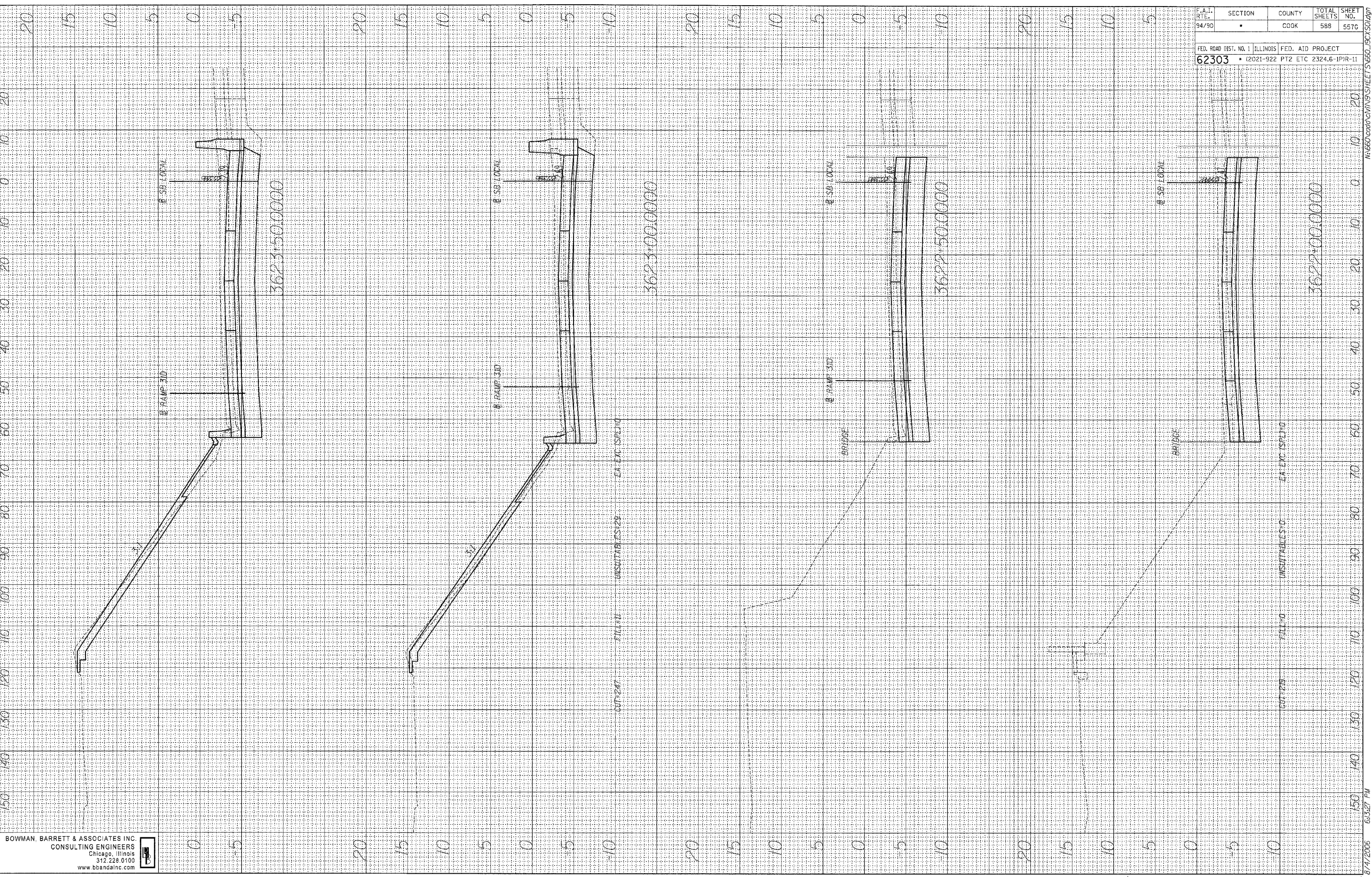
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94/90	•	COOK	588	557F
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
62303		• (2021-922 PT2 ETC 2324.6-1PIR-11		

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ORIGINAL SURVEY
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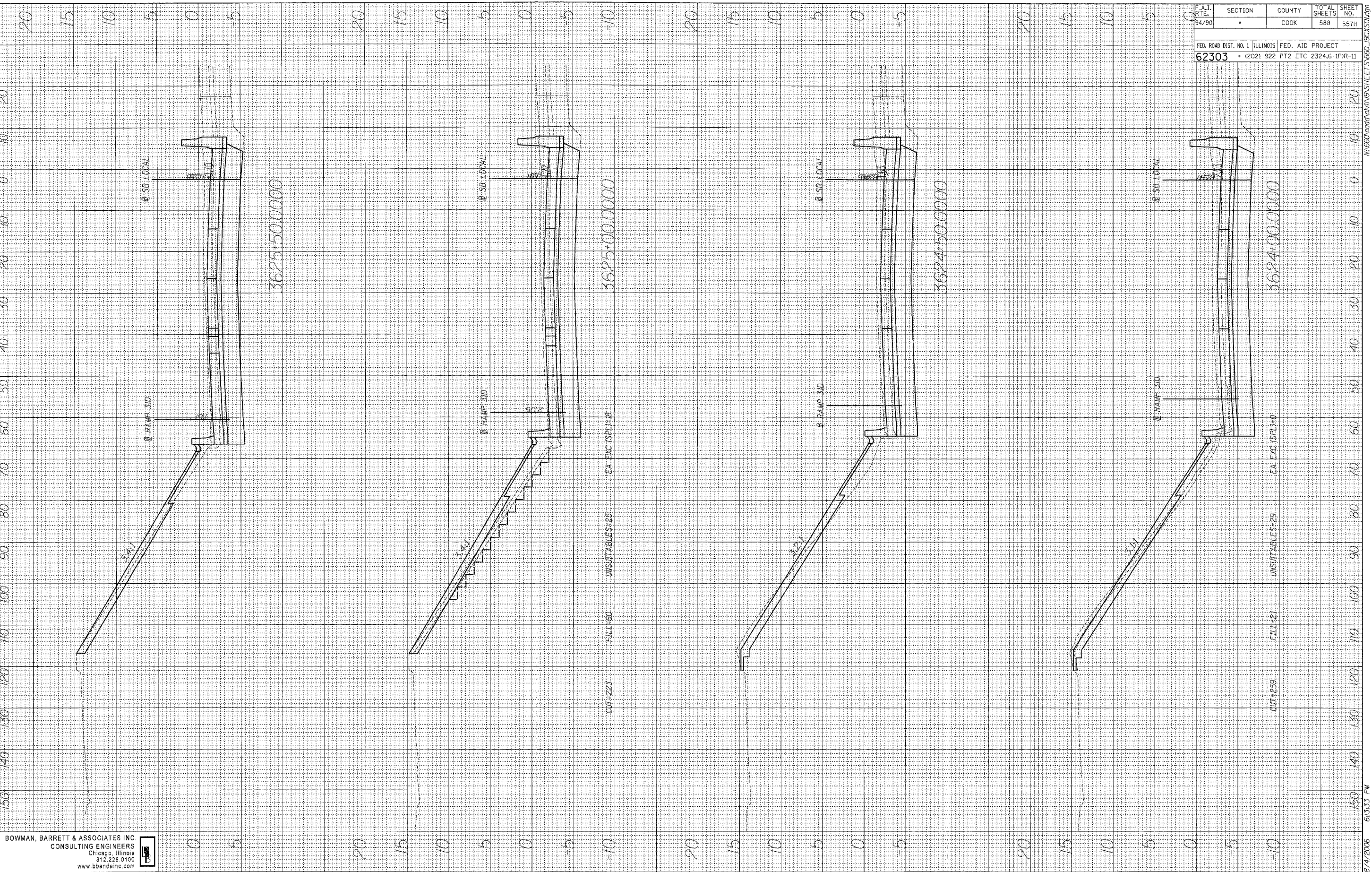
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT
62303		(2021-922 PT2 ETC 2324.6-1PR-11

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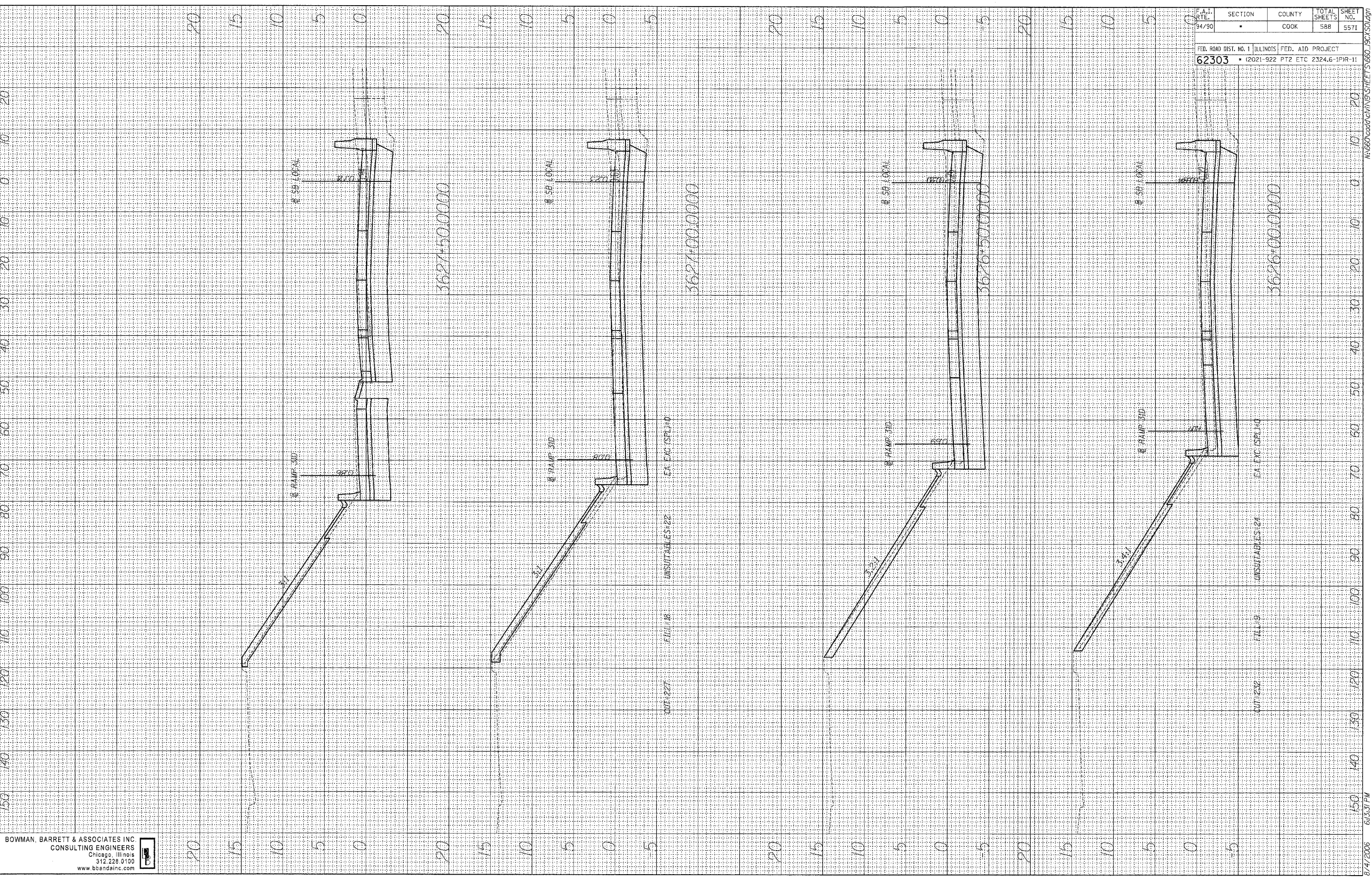
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F.A.I. NO. 94/90	SECTION *	COUNTY COOK	TOTAL SHEETS 588	SHEET NO. 557H
FED. ROAD DIST. NO. 1 ILLINOIS				
FED. AID PROJECT				
62303 • (2021-922 PT2 ETC 2324.6-1PIR-11				

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ORIGINAL SURVEY	DATE
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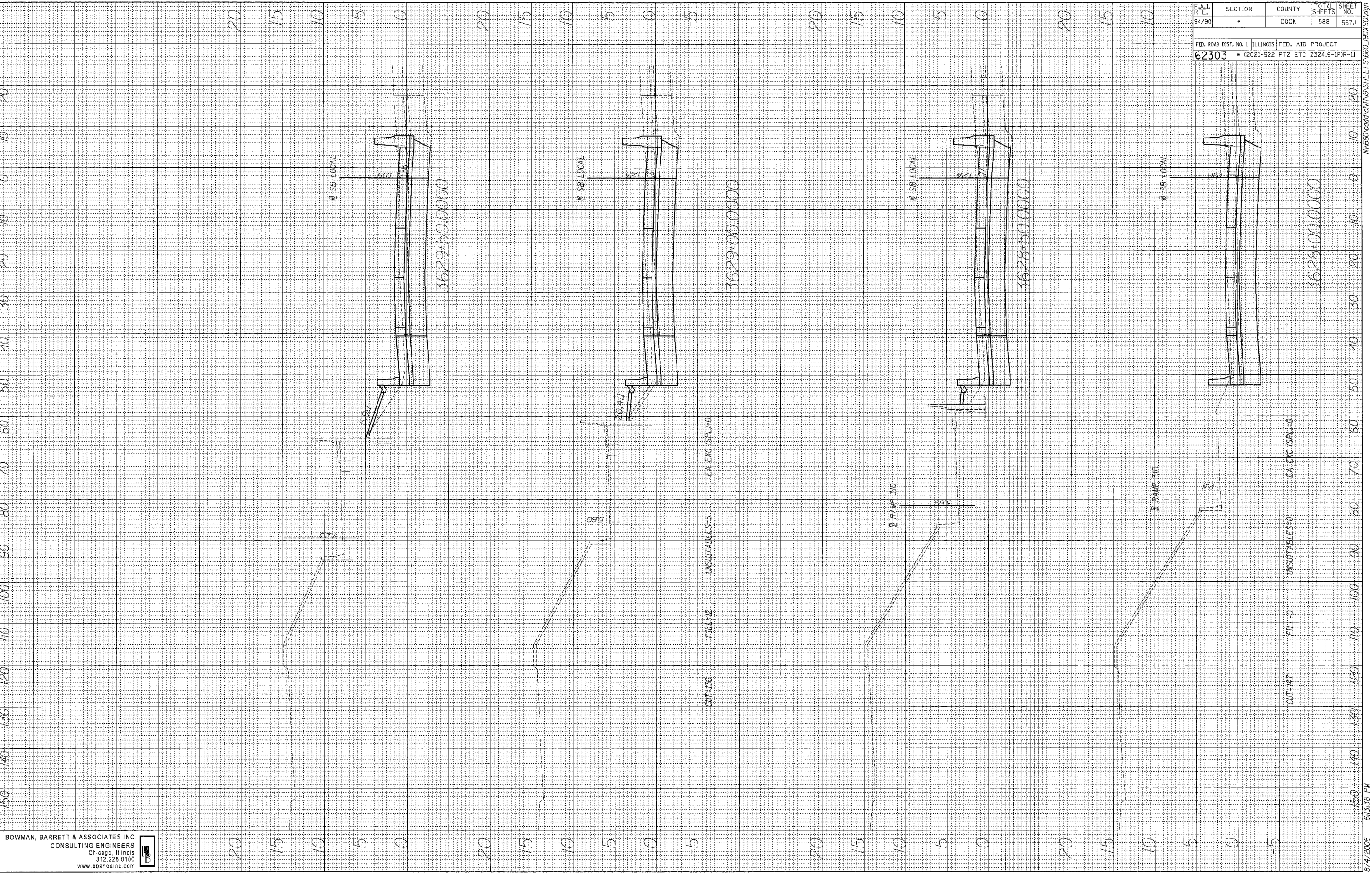
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	988	557
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
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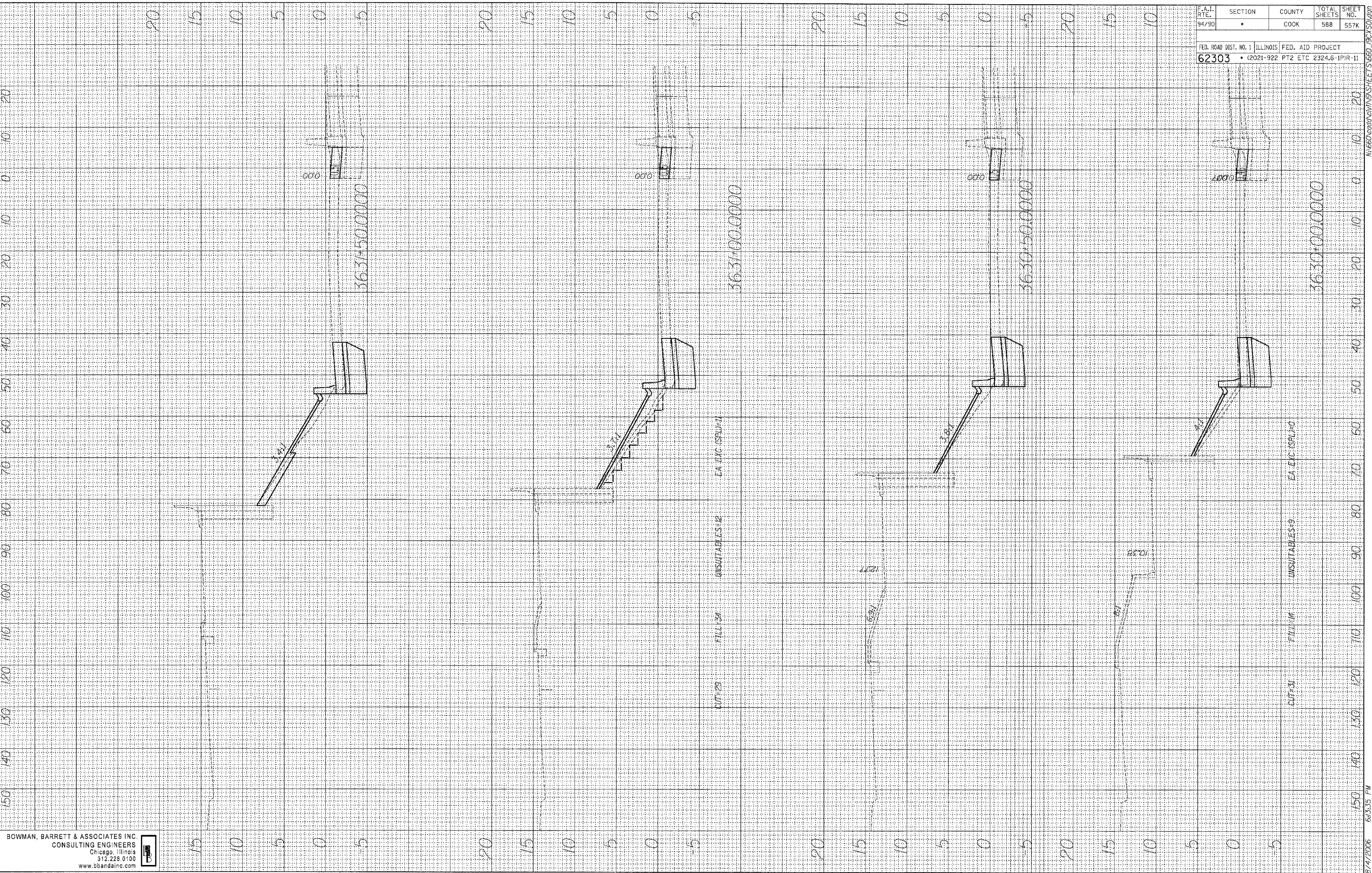
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F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	•	COOK	588	557J
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		
62303		• (2021-922 PT2 ETC 2324.6-1PIR-11		

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 SURVEYED BY DATE
 TEMPLATE NO.
 NOTE BOOK NO.
 AREAS CHECKED



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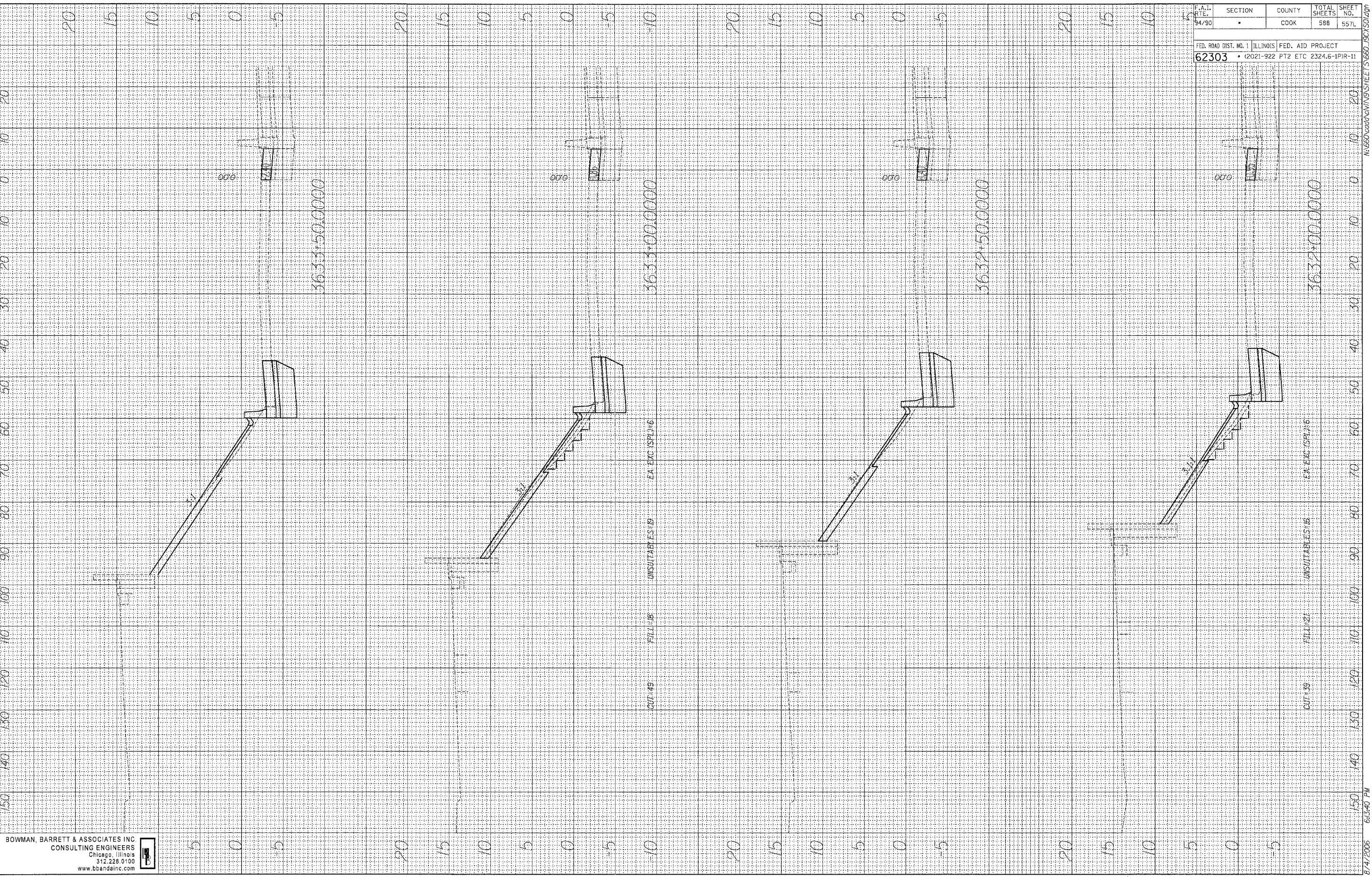
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	.	COOK	588	557K

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
 62303 • (2021-922 PT2 ETC 2324.6-1P)R-11

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DATE _____ BY _____
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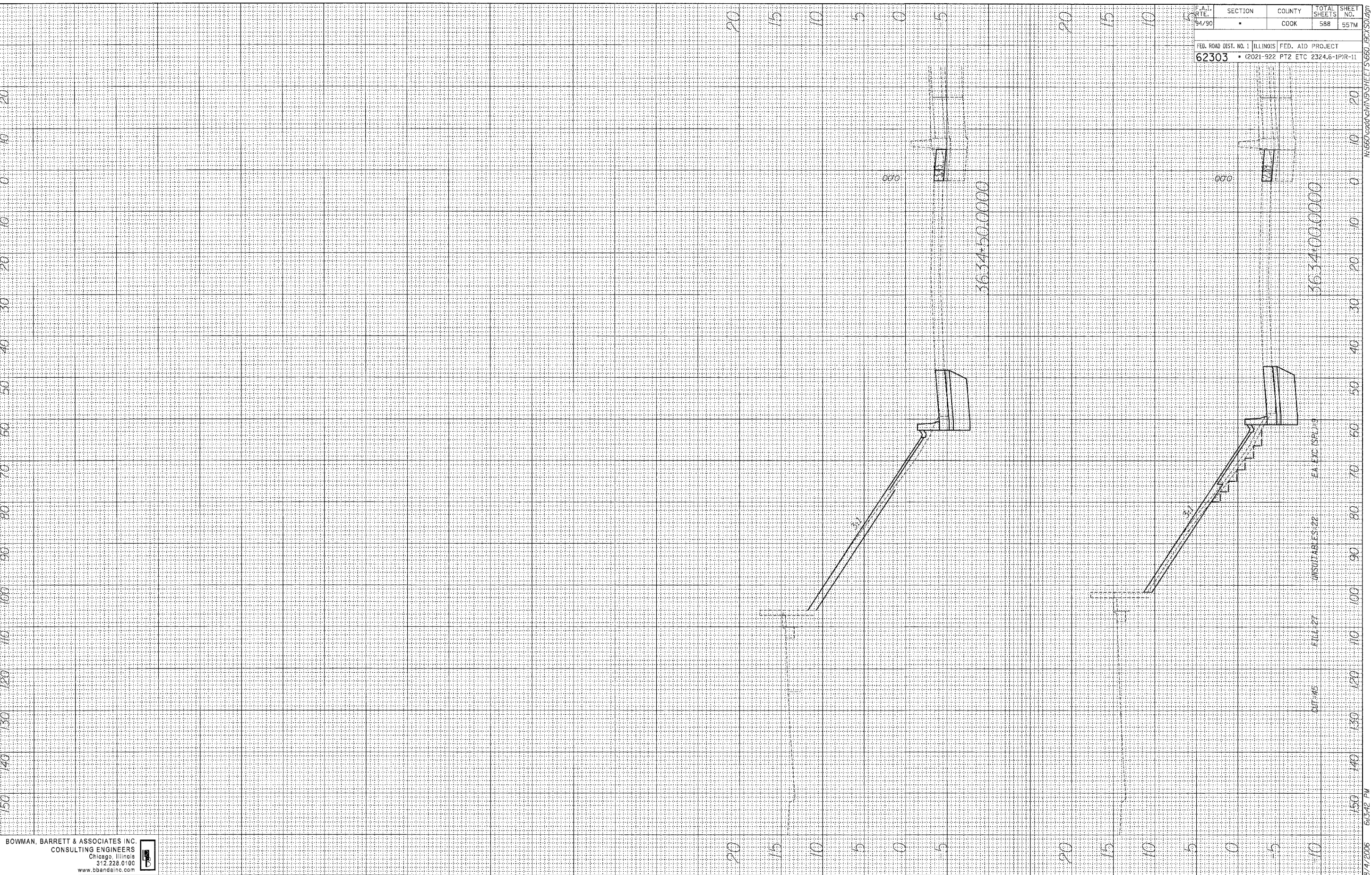
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F.A.I. R.T.E. 94/90	SECTION	COUNTY COOK	TOTAL SHEETS 586	SHEET NO. 557L
FED. ROAD DIST. NO. 1 ILLINOIS, FED. AID PROJECT 62303, (2021-922 PT2 ETC 2324.6-1P/R-11)				

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ORIGINAL SURVEY	DATE
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NOTE BOOK NO.	



F.A.I. DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90		COOK	588	557M
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT
62303		(2021-922 PT2 ETC		2324.6-1PR-11

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