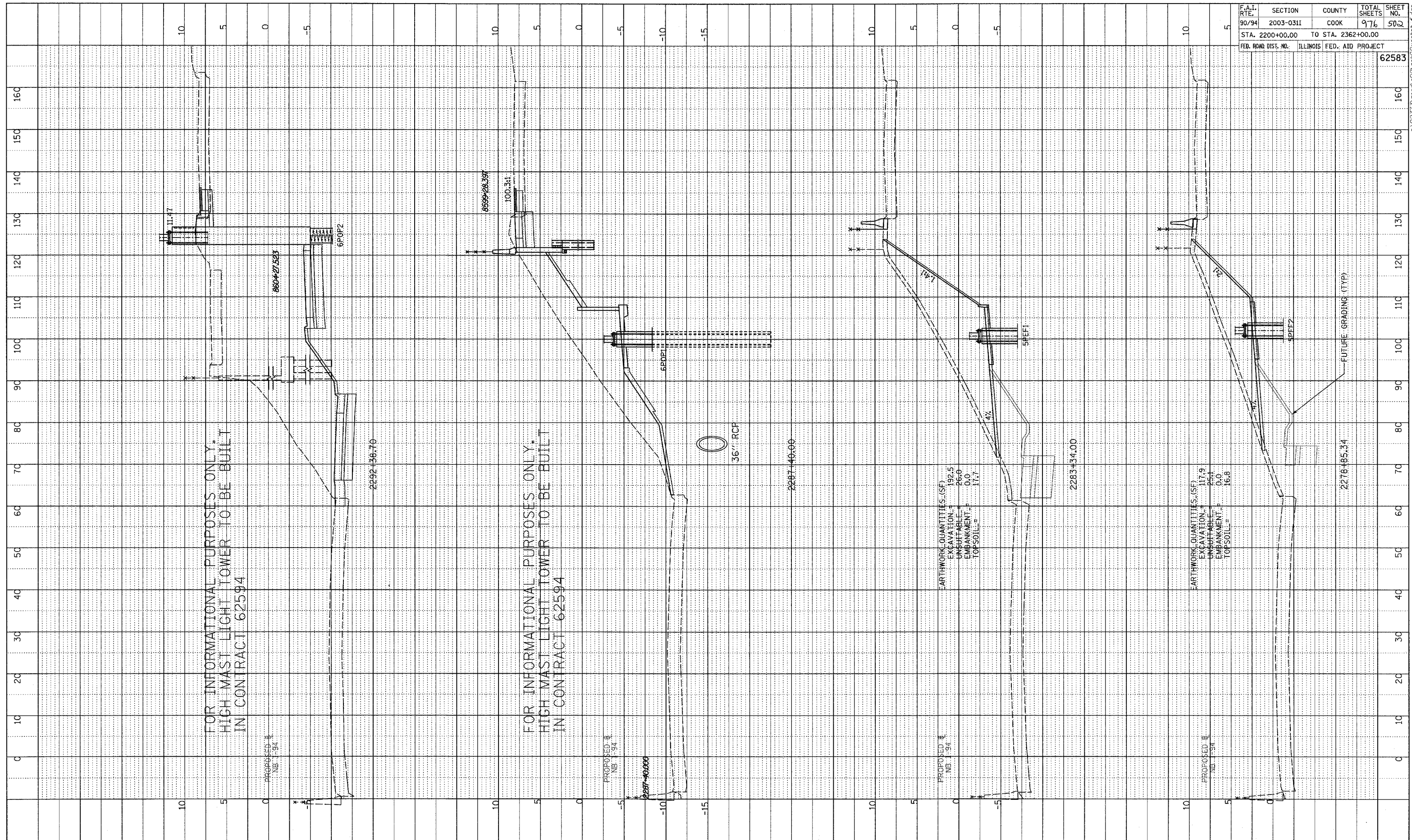




SURVEYED  
 GRADES CHECKED  
 B.M. NOTED  
 STRUCTURE NOTATIONS OK'D  
 NO. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	502
STA. 2200+00.00 TO STA. 2362+00.00		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
				62583

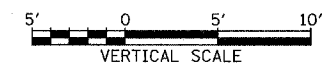
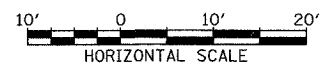


FOR INFORMATIONAL PURPOSES ONLY.  
 HIGH MAST LIGHT TOWER TO BE BUILT  
 IN CONTRACT 62594

FOR INFORMATIONAL PURPOSES ONLY.  
 HIGH MAST LIGHT TOWER TO BE BUILT  
 IN CONTRACT 62594

EARTHWORK QUANTITIES (SF)  
 EXCAVATION = 192.5  
 UNSUBTLE = 26.0  
 EMBANKMENT = 0.0  
 TOP SOIL = 17.7

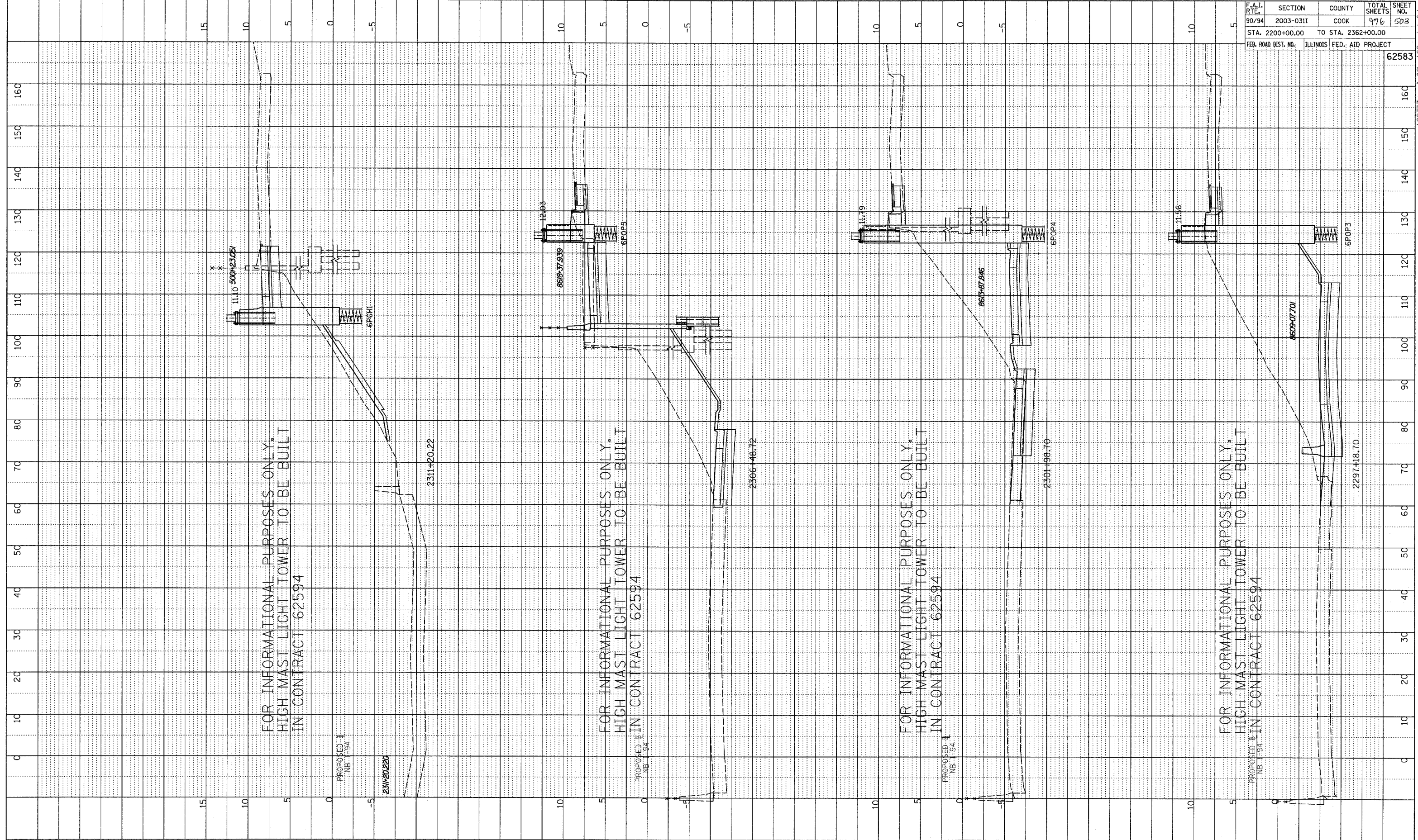
EARTHWORK QUANTITIES (SF)  
 EXCAVATION = 17.9  
 UNSUBTLE = 25.1  
 EMBANKMENT = 0.0  
 TOP SOIL = 16.8



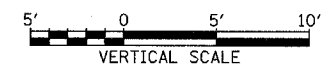
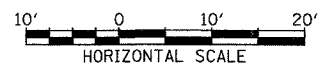
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PROFILE SURVEYED  
 NOTE BOOK GRADES CHECKED  
 NO. EBM NOTED  
 STRUCTURE NOTATION CHRG

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	503
STA. 2200+00.00		TO STA. 2362+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	62583	



TYLIN INTERNATIONAL



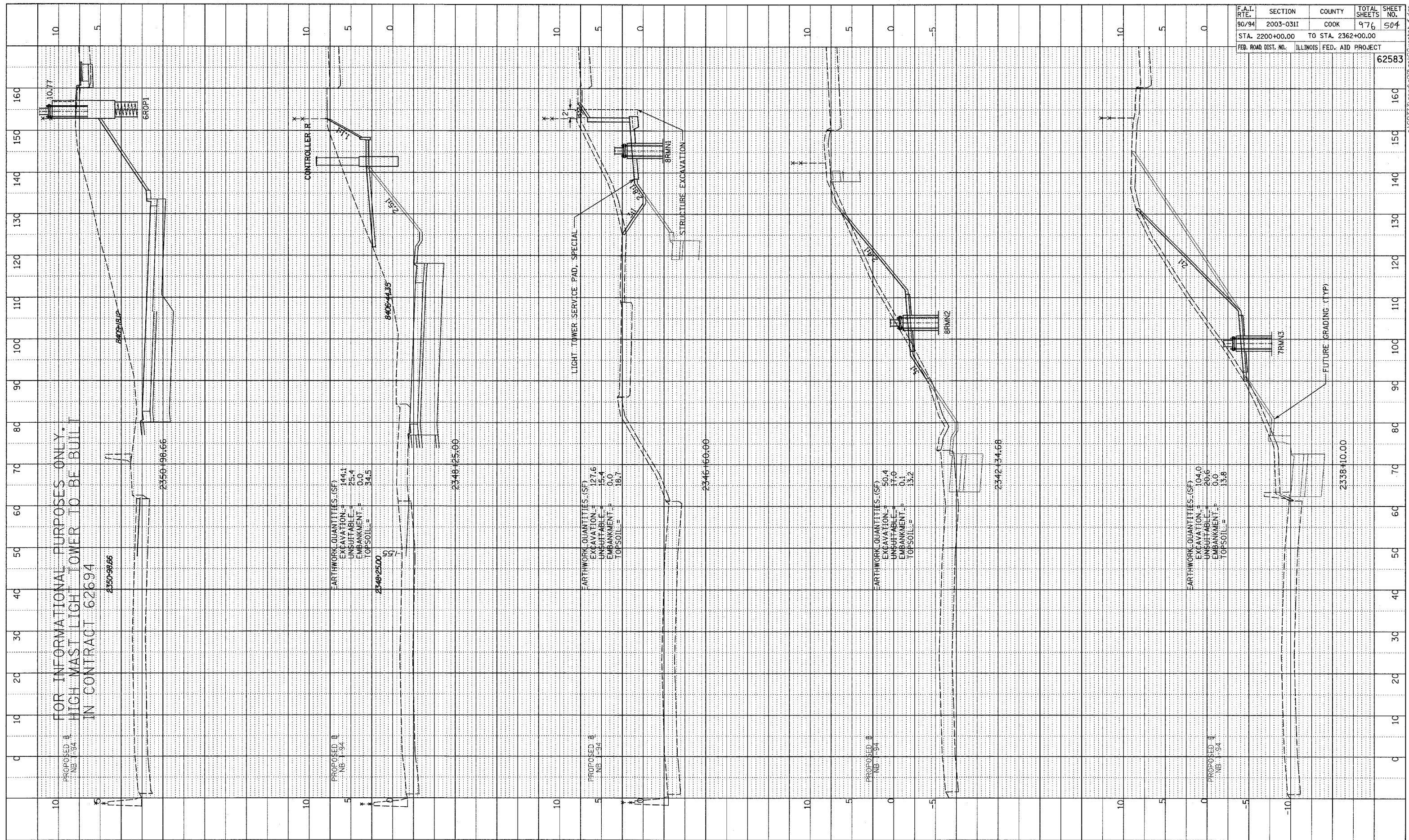
NB I-94 (DAN RYAN EXPRESSWAY)  
 STA. 2297+18.70 TO 2311+20.22

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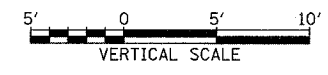
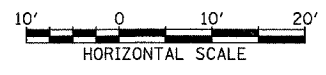
PROFILE SURVEYED  
 GRADES CHECKED  
 ELEVATIONS NOTED  
 NO. STRUCTURE NOTATIONS CHECKED

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 HIGH MAST LIGHT TOWER TO BE BUILT  
 IN CONTRACT 62694

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-031I	COOK	976	504
STA. 2200+00.00 TO STA. 2362+00.00		ILLINOIS FED. AID PROJECT		
				62583



TYLIN INTERNATIONAL

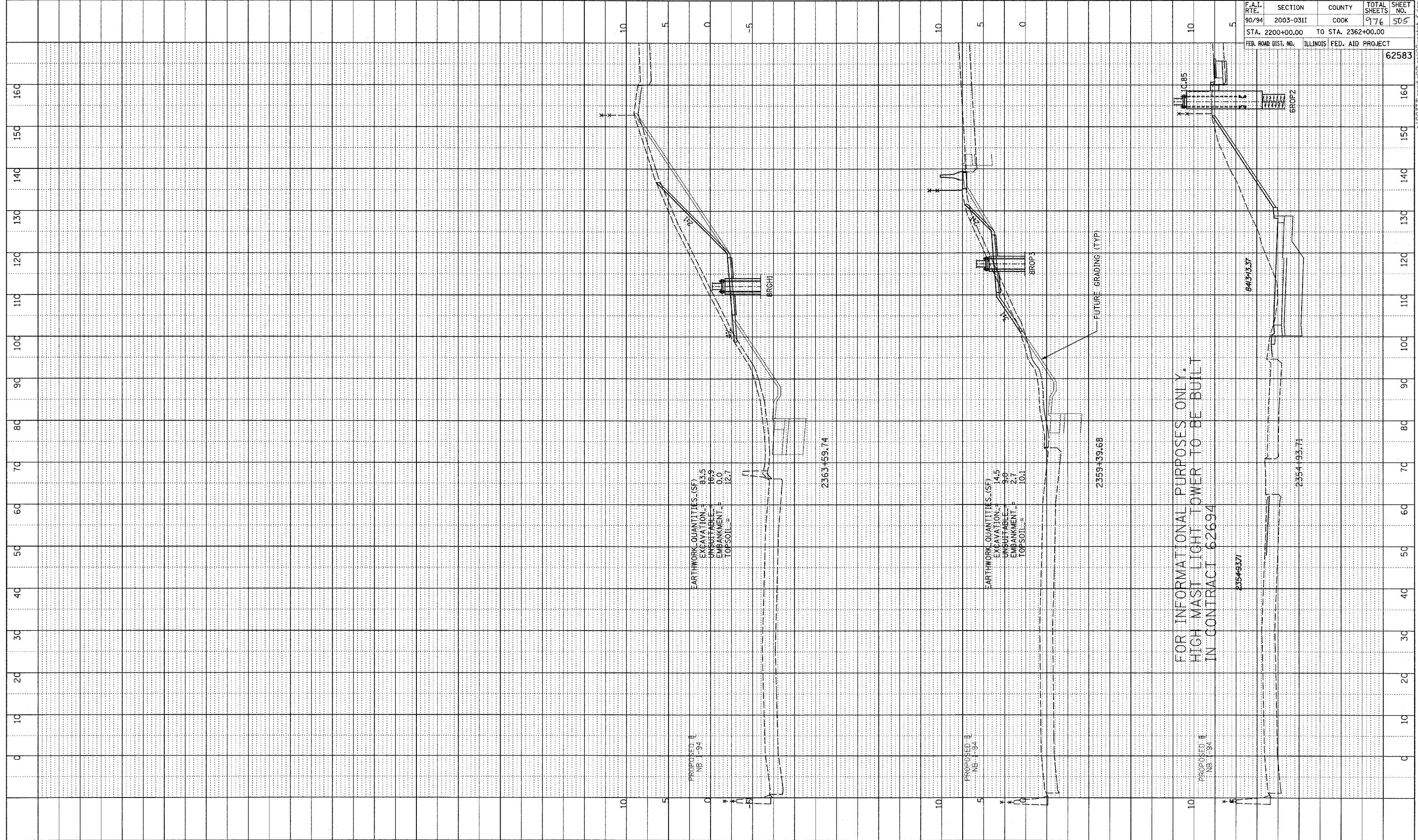


NB I-94 (DAN RYAN EXPRESSWAY)  
 STA. 2338+10 TO 2350+98.66

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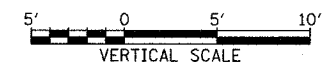
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 CHECKED BY: [ ]  
 DATE: [ ]  
 PROJECT NO.: [ ]  
 SHEET NO.: [ ]

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	505
STA. 2200+00.00 TO STA. 2362+00.00		ILLINOIS FED. AID PROJECT		
				62583



FOR INFORMATIONAL PURPOSES ONLY.  
 HIGH MAST LIGHT TOWER TO BE BUILT  
 IN CONTRACT 62694

TYLIN INTERNATIONAL



NB I-94 (DAN RYAN EXPRESSWAY)  
 STA. 2354+93.71 TO 2363+59.74

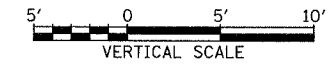
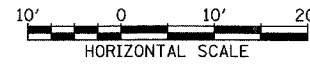
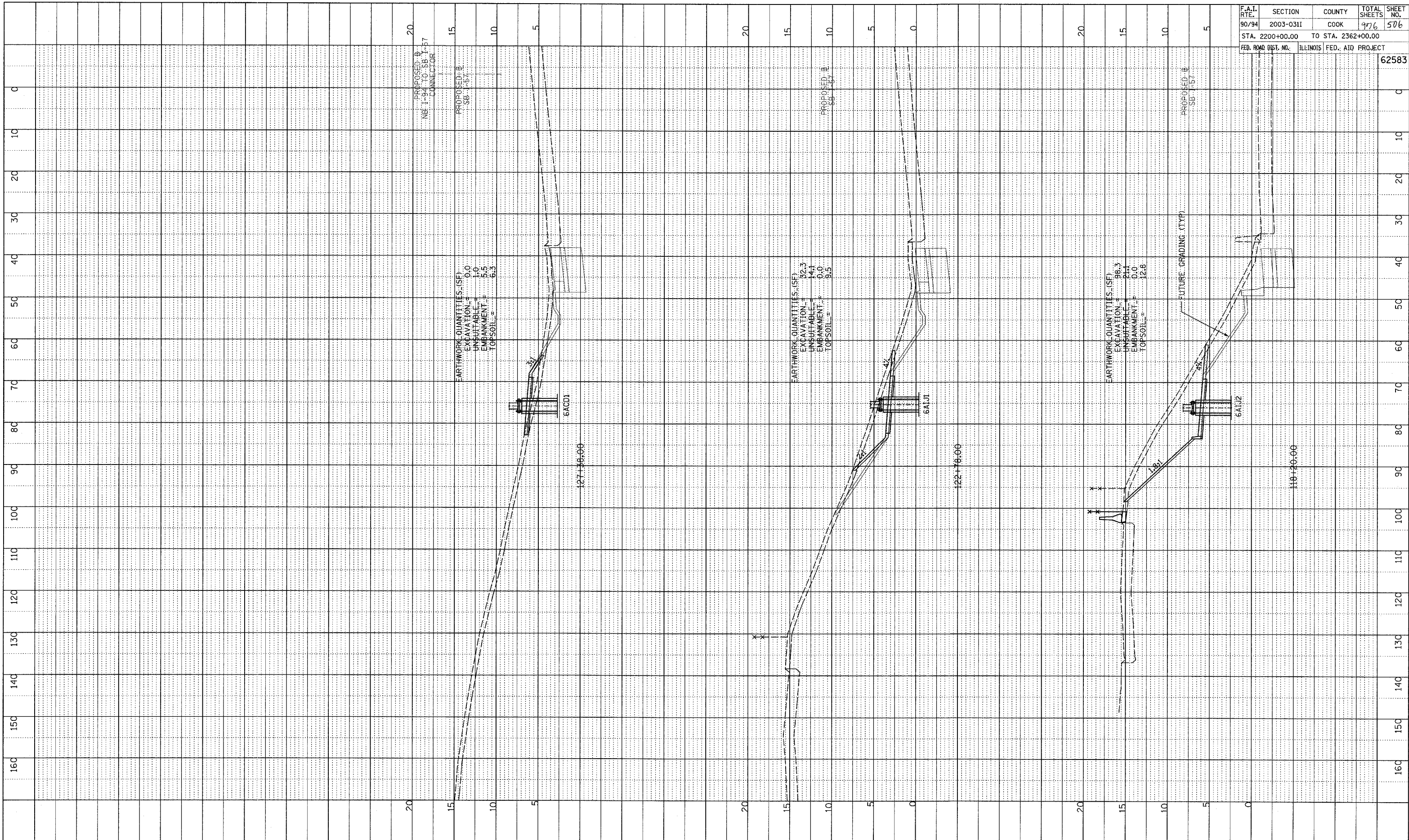
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PLOTTED  
 CHECKED  
 NO.

NOTE BOOK  
 NO.

STRUCTURE NOTATION CHYD

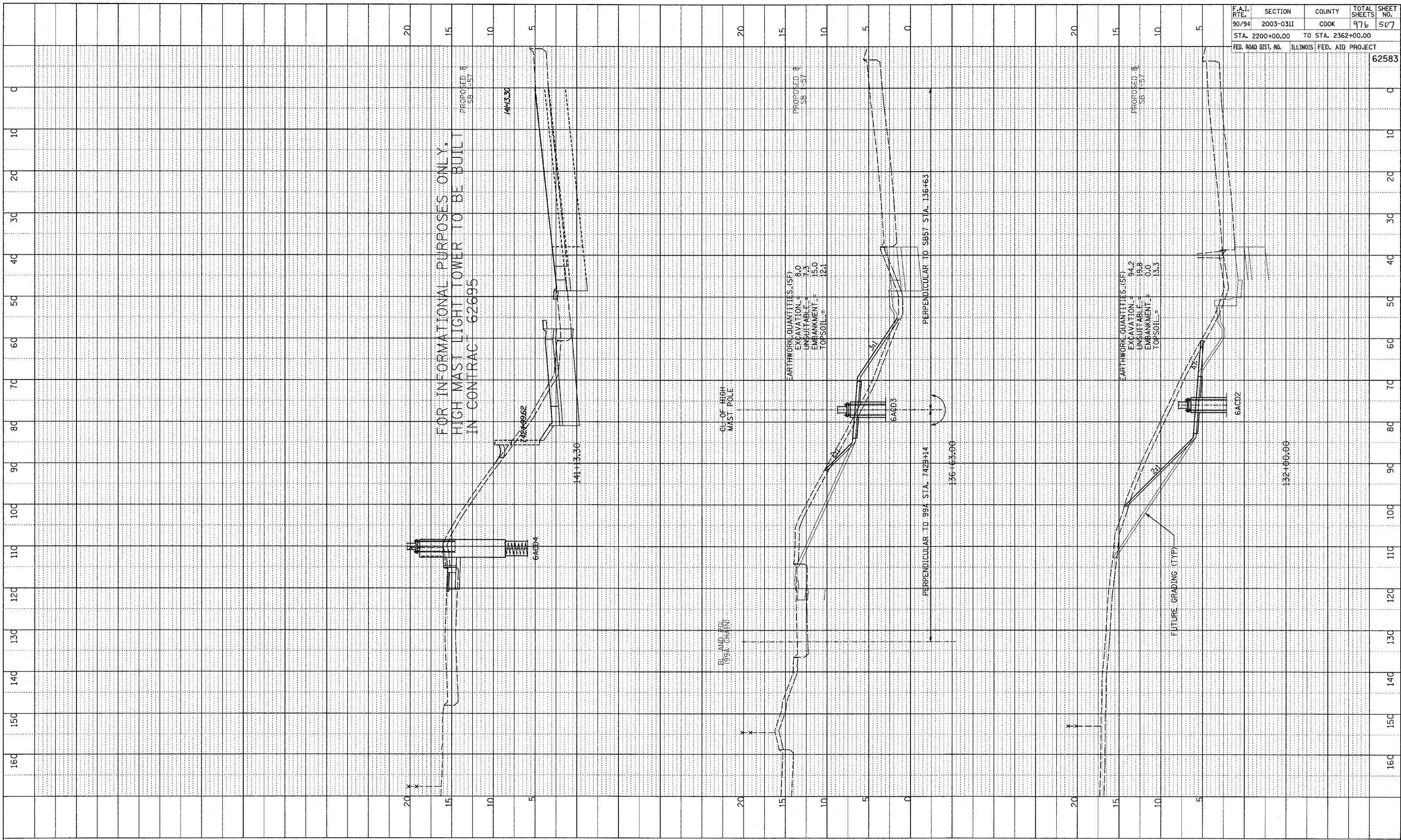
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STA. 2200+00.00		TO STA. 2362+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
				62583



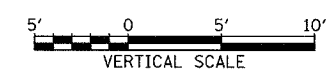
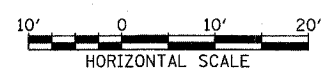
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NOTE BOOK  
 NO. \_\_\_\_\_  
 STRUCTURE NOTATION DRKO

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-031I	COOK	976	507
STA. 2200+00.00 TO STA. 2362+00.00		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		62583		



TYLIN INTERNATIONAL

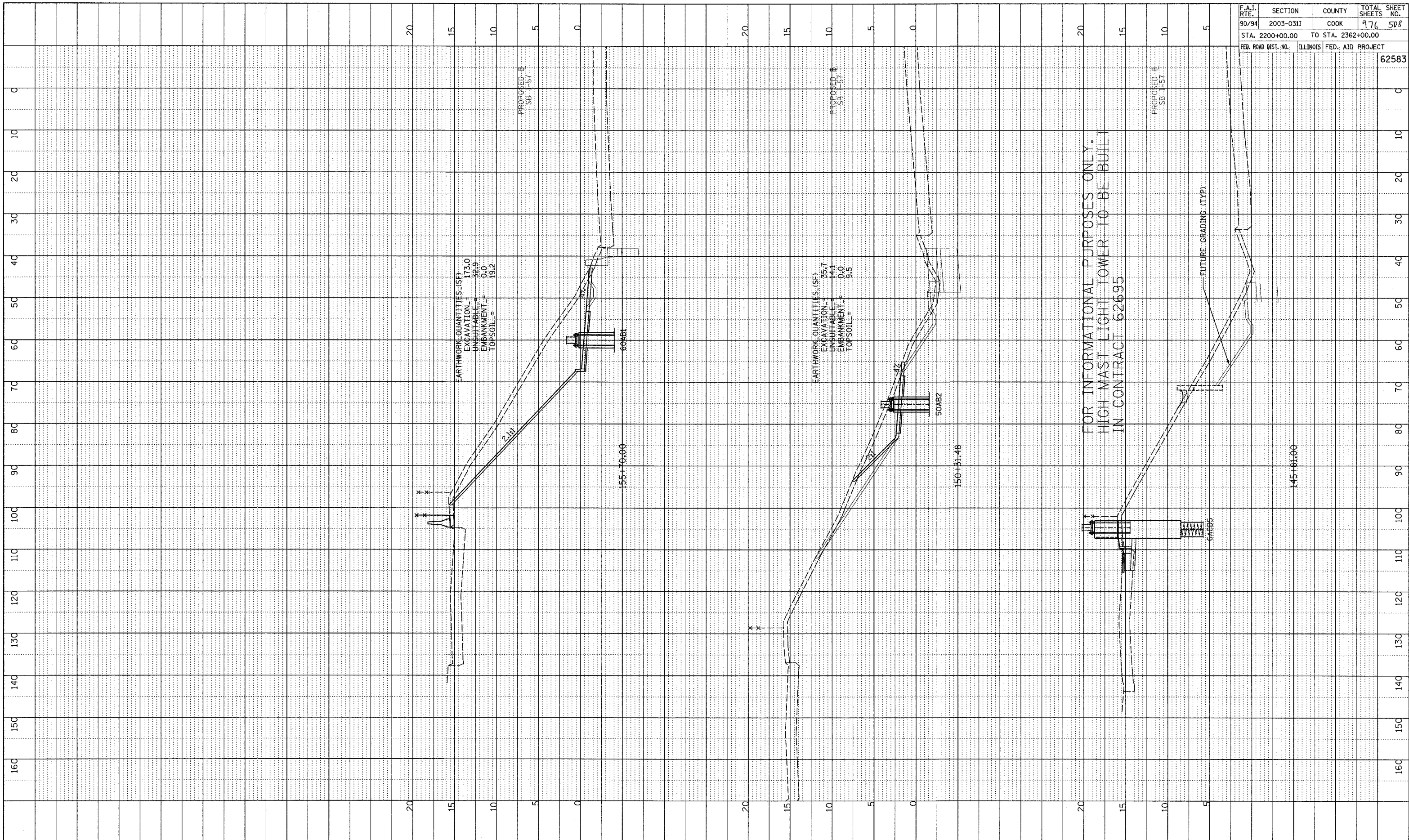


SB I-57  
 STA. 132+00 TO STA. 141+13.30

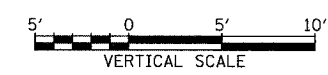
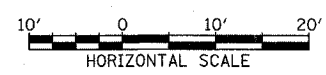
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PLOTTED  
 GRADES CHECKED  
 STRUCTURE NOTATION OK  
 NO. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-031I	COOK	976	508
STA. 2200+00.00		TO STA. 2362+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		62583



TYLIN INTERNATIONAL

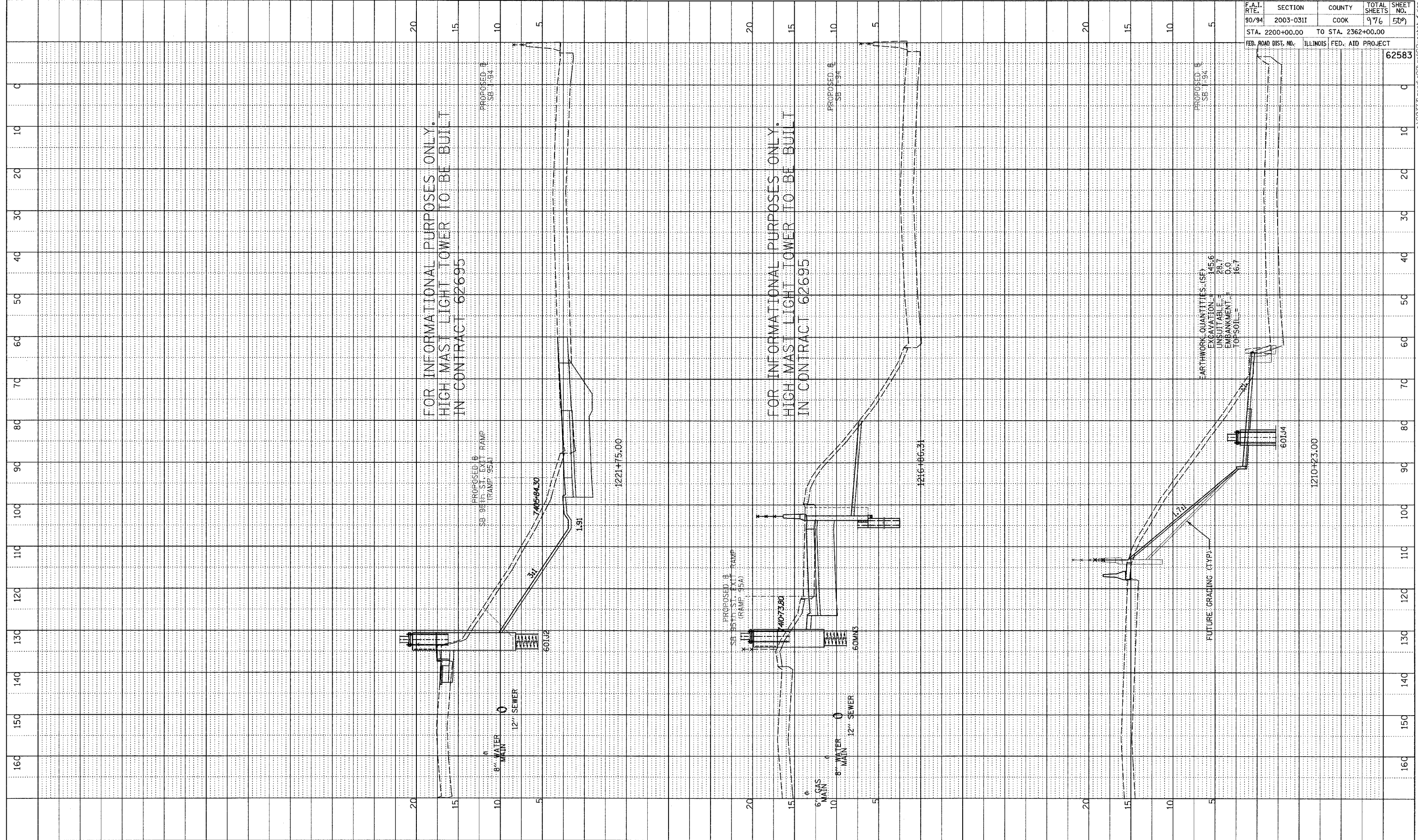


SB I-57  
 STA. 145+81 TO 155+70

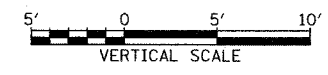


PROFILE SUBMITTED  
 GRADES CHECKED  
 DATE NOTED  
 SURVEYOR NOTATION CHRG

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	509
STA. 2200+00.00 TO STA. 2362+00.00		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
				62583



TYLIN INTERNATIONAL



SB I-94 (DAN RYAN EXPRESSWAY)  
 STA. 1210+23 TO STA. 1221+75

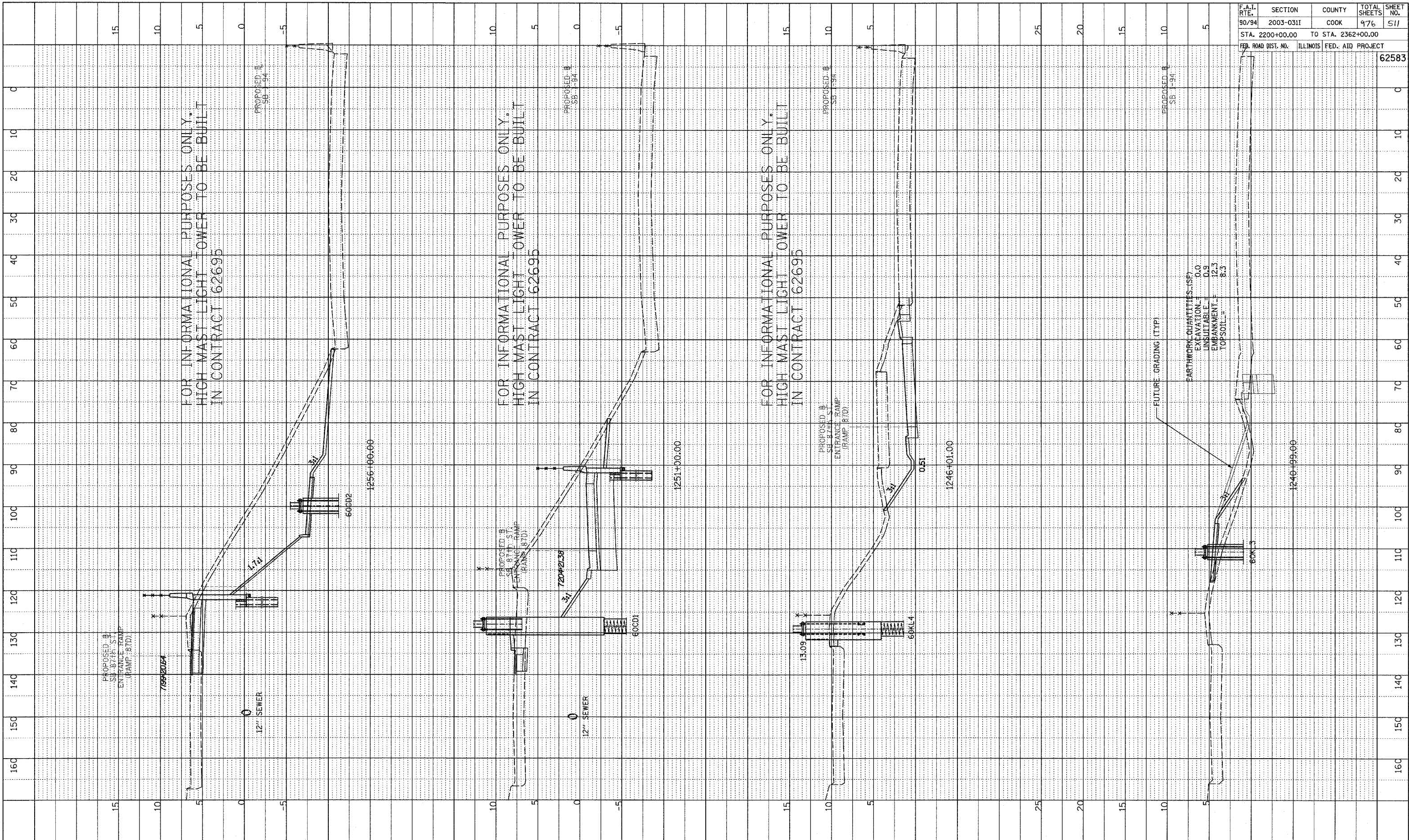
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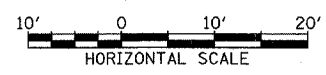
NOTE BOOK  
 NO. \_\_\_\_\_  
 PLOTTED & CHECKED  
 BY \_\_\_\_\_  
 STRUCTURE NOTATIONS CHRD

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	511
STA. 2200+00.00		TO STA. 2362+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62583



TYLIN INTERNATIONAL

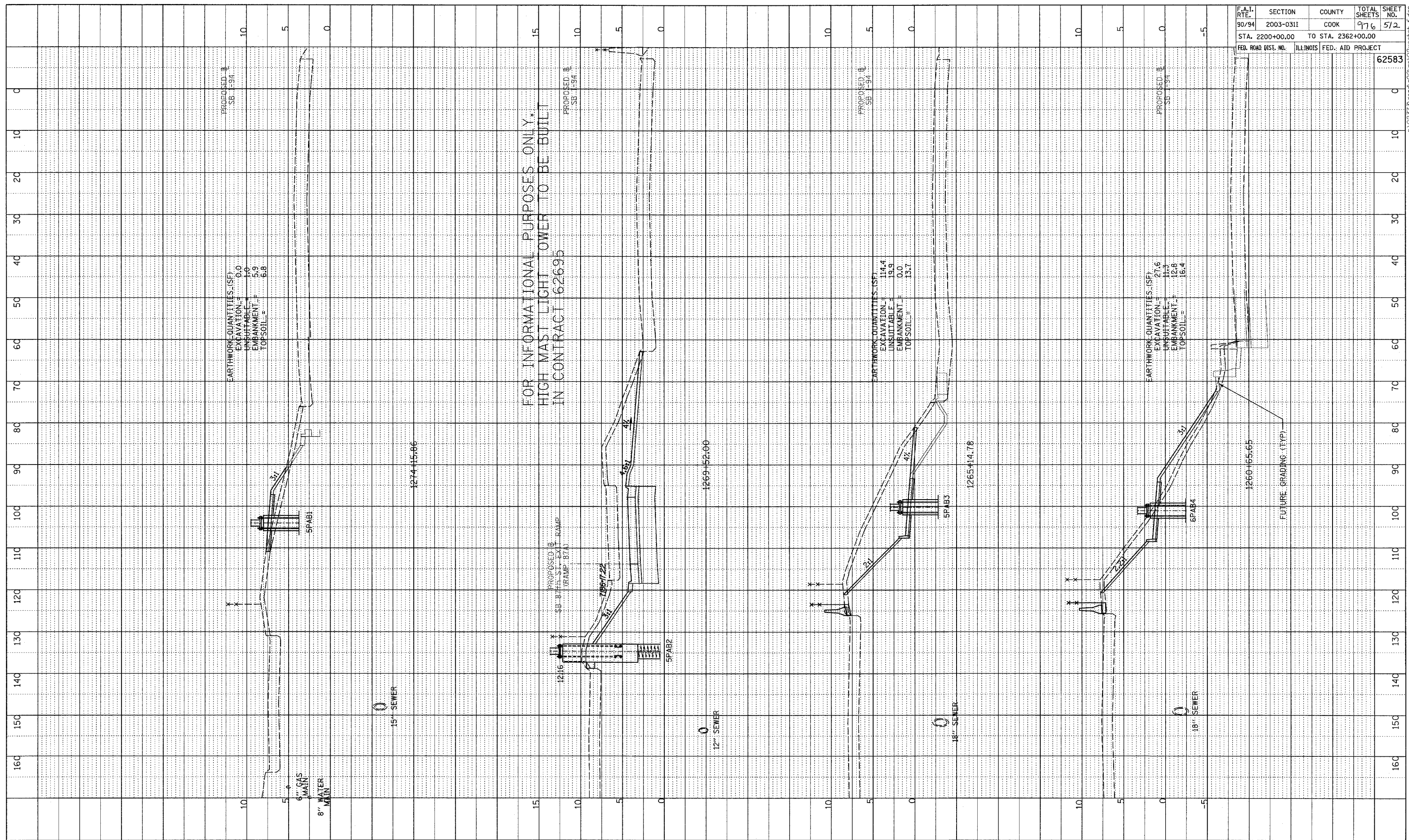


SB I-94 (DAN RYAN EXPRESSWAY)  
 STA. 1240+99 TO STA. 1256+00

PA-02373.yroad\02\gk02\ss\sb1.dgn

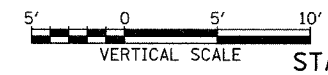
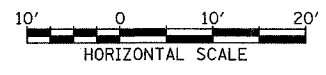
PROFILE  
 NOTE BOOK  
 GRADES CHECKED  
 DATE NOTED  
 NO. STRUCTURE NOTATION CHRG

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	512
STA. 2200+00.00 TO STA. 2362+00.00		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
				62583



FOR INFORMATIONAL PURPOSES ONLY.  
 HIGH MAST LIGHT TOWER TO BE BUILT  
 IN CONTRACT 62695

TYLIN INTERNATIONAL



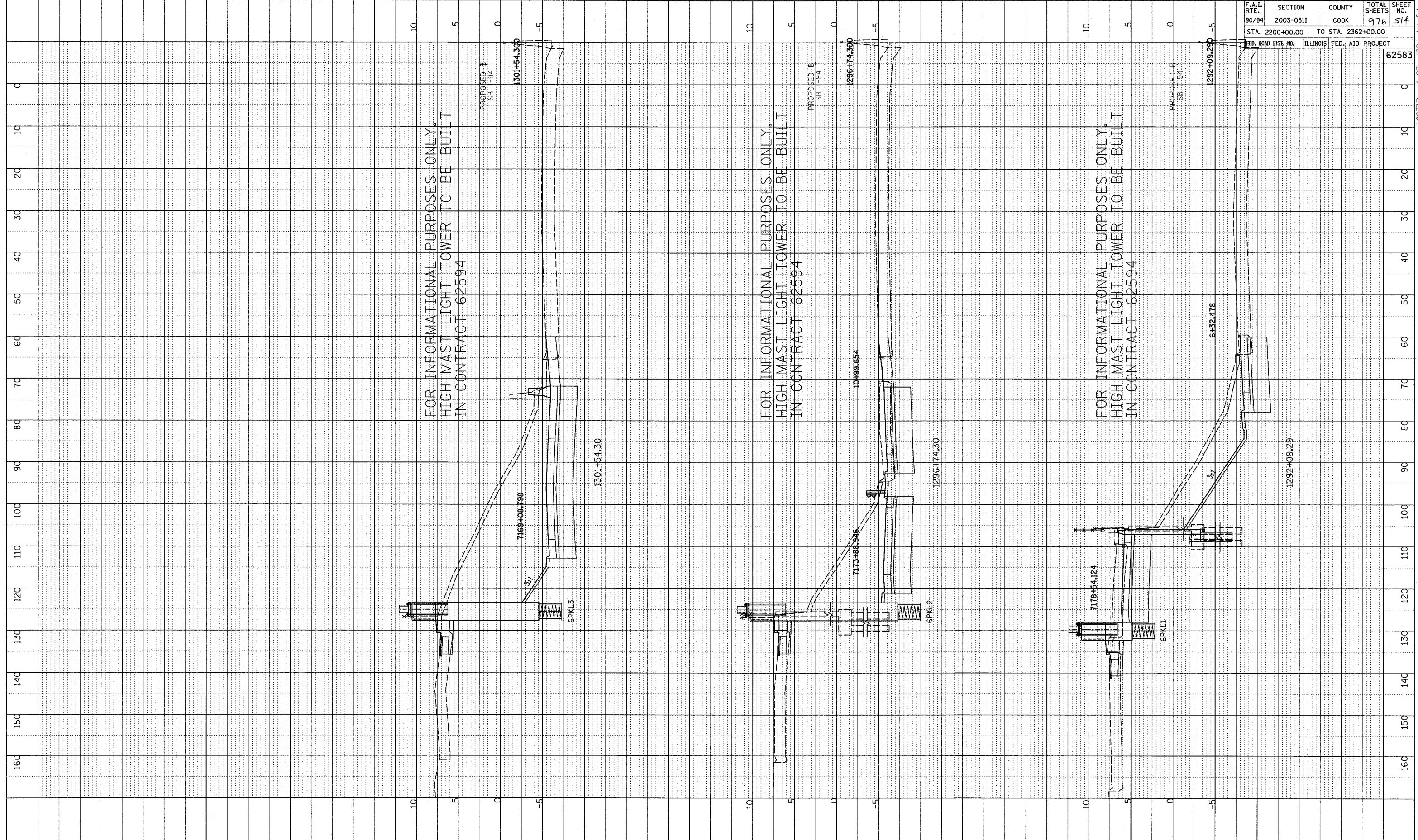
SB I-94 (DAN RYAN EXPRESSWAY)  
 STA. 1260+65.65 TO STA. 1274+15.86

PA 0237-3 road v02 vpk02 xshsb-f.dgn

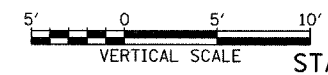


PROF. ILL. (SLAVE) DRAWING  
 NOTE BOOK NO. \_\_\_\_\_  
 GRADES CHECKED \_\_\_\_\_  
 PLAN NOTED \_\_\_\_\_  
 STRUCTURE NOTATION CHKS \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	514
STA. 2200+00.00 TO STA. 2362+00.00		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
				62583



TYLIN INTERNATIONAL

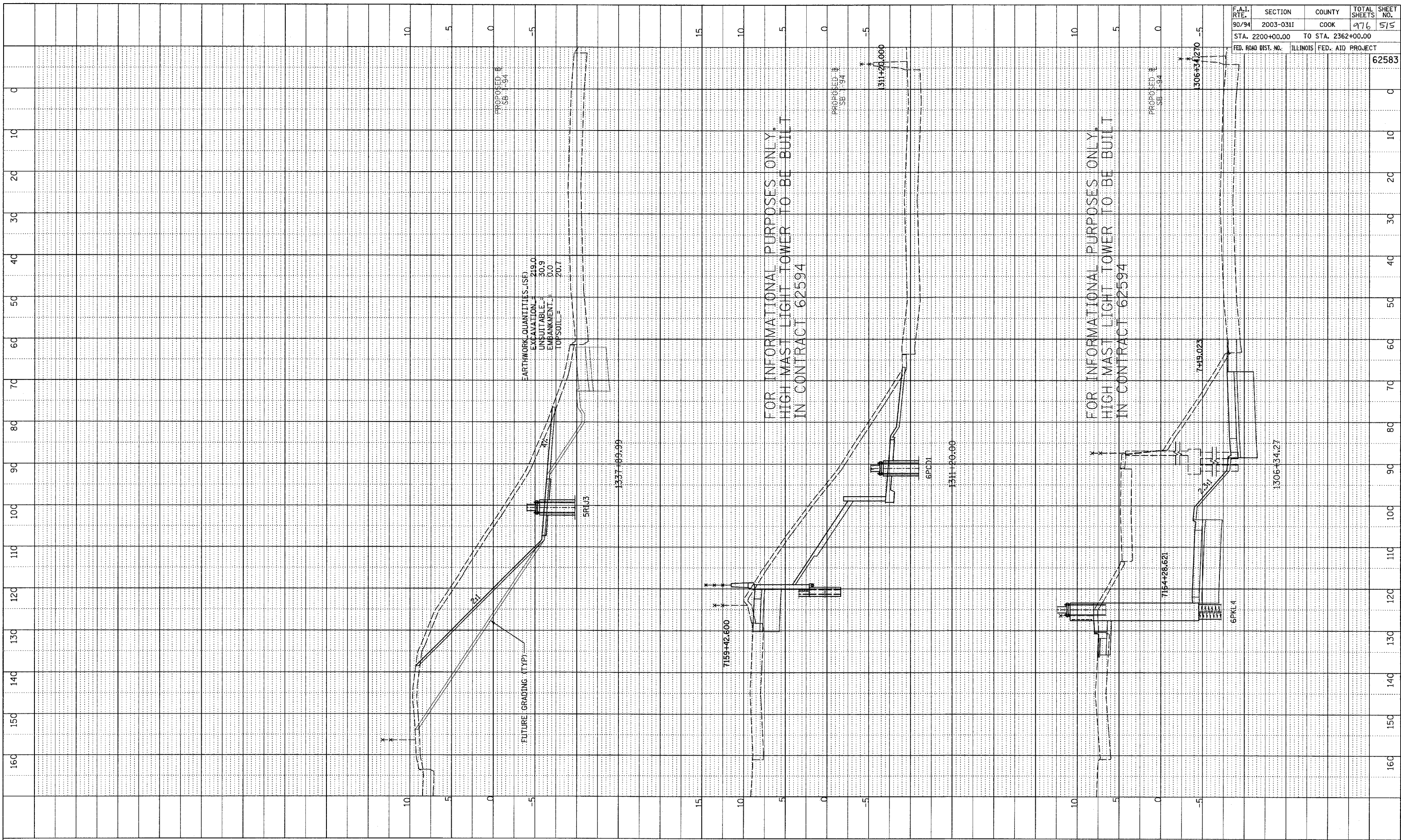


SB I-94 (DAN RYAN EXPRESSWAY)  
 STA. 1292+09.29 TO STA. 1301+54.30

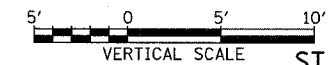
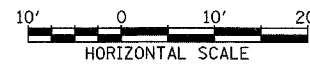
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PLOTTED  
 CHECKED  
 NO. \_\_\_\_\_  
 STRUCTURE NOTATION CHRD

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	515
STA. 2200+00.00		TO STA. 2362+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	62583	



TYLIN INTERNATIONAL



SB I-94 (DAN RYAN EXPRESSWAY)  
 STA. 1306+34.27 TO STA. 1337+89.99

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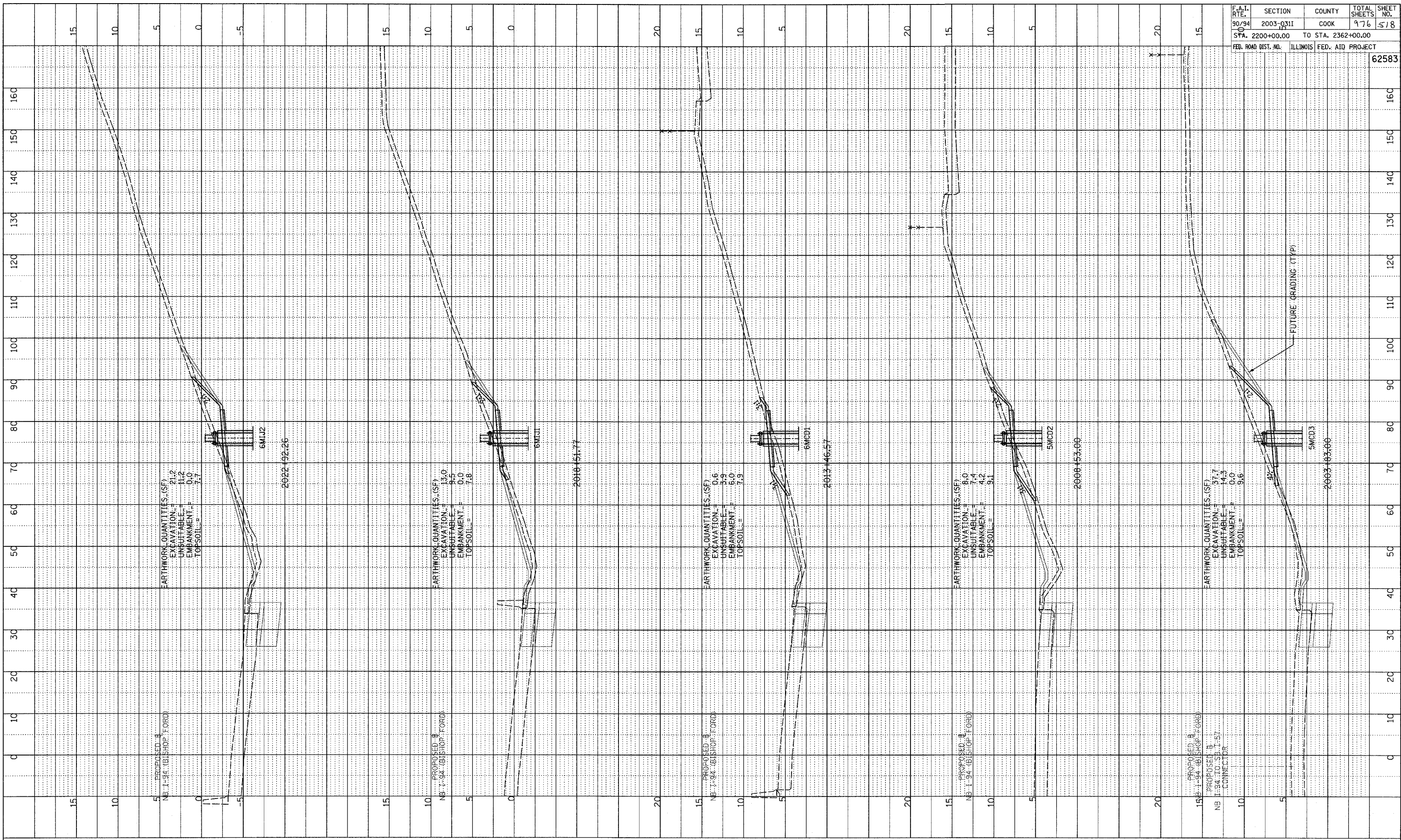




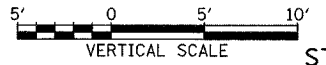
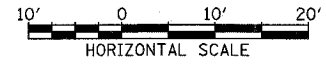


PLOTTED AND CHECKED  
 NO. DATE  
 STRUCTURE IDENTIFICATION  
 NO. DATE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-031I	COOK	976	518
STA. 2200+00.00 TO STA. 2362+00.00		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
				62583



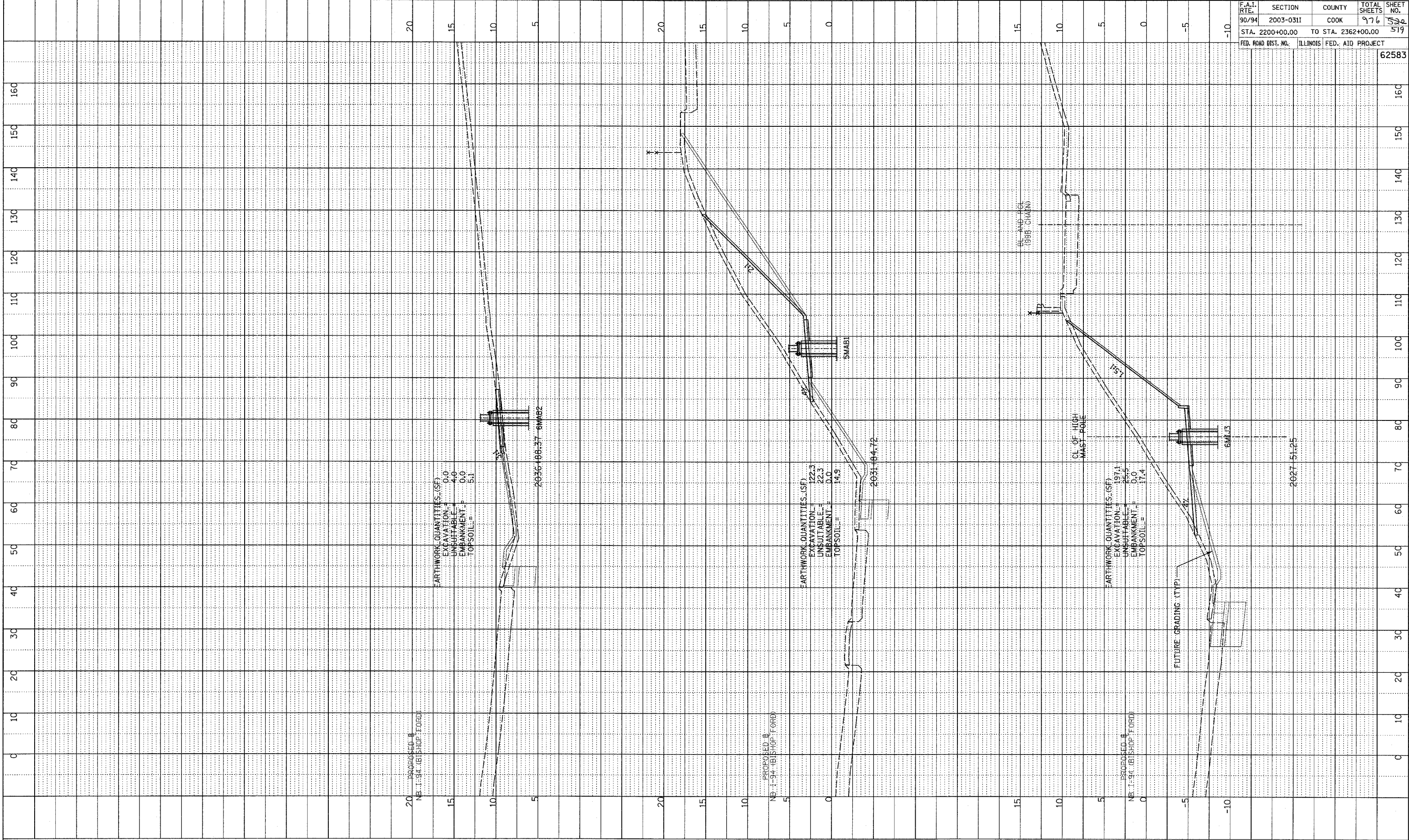
TYLIN INTERNATIONAL



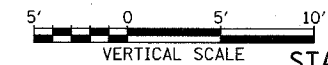
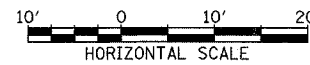
NB I-94 (BISHOP FORD FREEWAY)  
 STA. 2003+83 TO STA. 2022+92.26

PLOTTED, CHECKED  
 DATE: 08/20/03  
 NO. \_\_\_\_\_  
 STRUCTURE NOTATION: CHRD

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	522
STA. 2200+00.00 TO STA. 2362+00.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	62583	



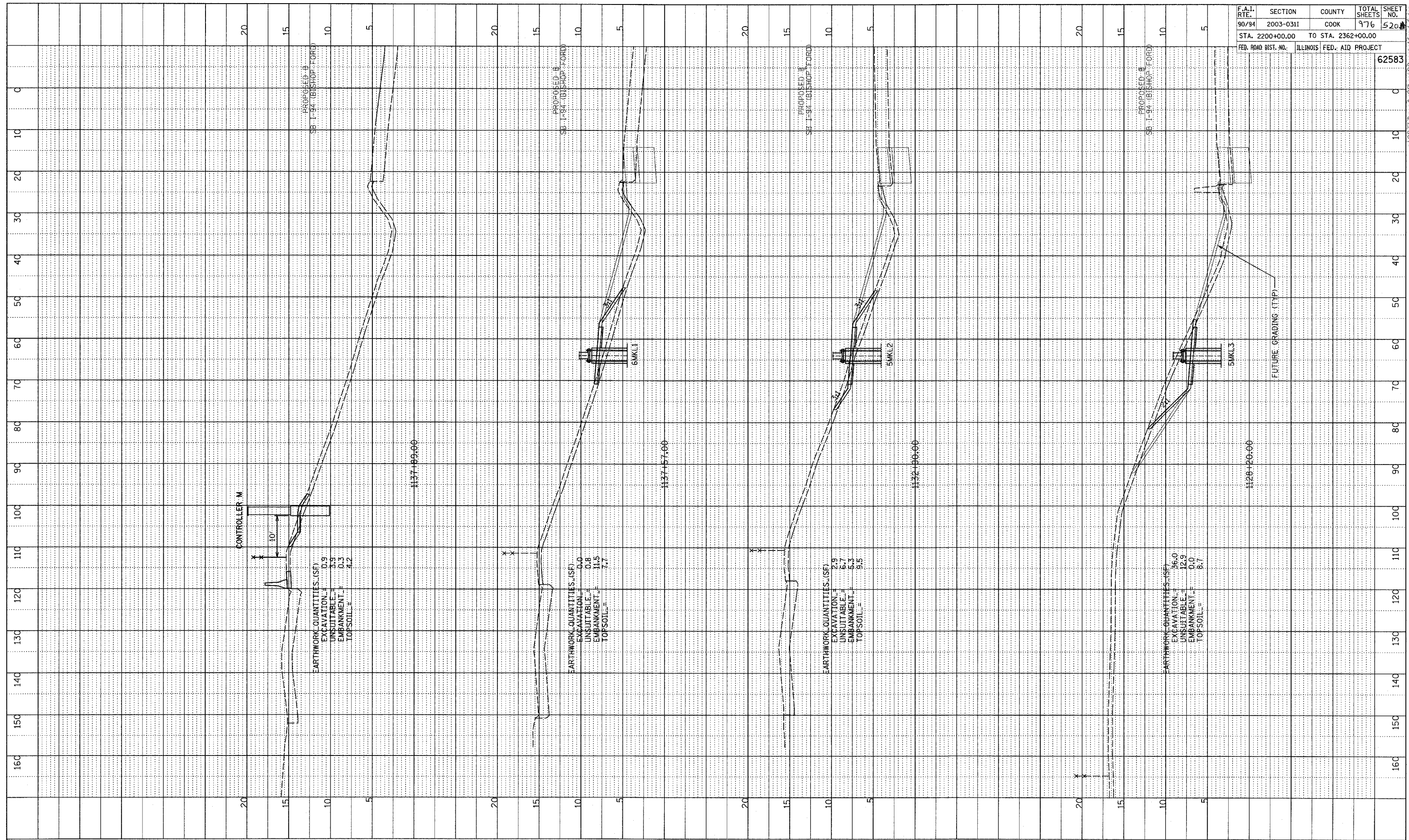
TYLIN INTERNATIONAL



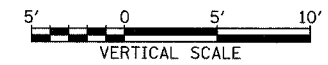
NB I-94 (BISHOP FORD FREEWAY)  
 STA. 2027+51.25 TO STA. 2036+88.37

PROFILE  
 GRADES CHECKED  
 ELEV. NOTED  
 STRUCTURE NOTATIONS OK'D  
 NO.

F.A.I. RTE. 90/94	SECTION 2003-031I	COUNTY COOK	TOTAL SHEETS 976	SHEET NO. 520
STA. 2200+00.00		TO STA. 2362+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	62583	



TYLIN INTERNATIONAL



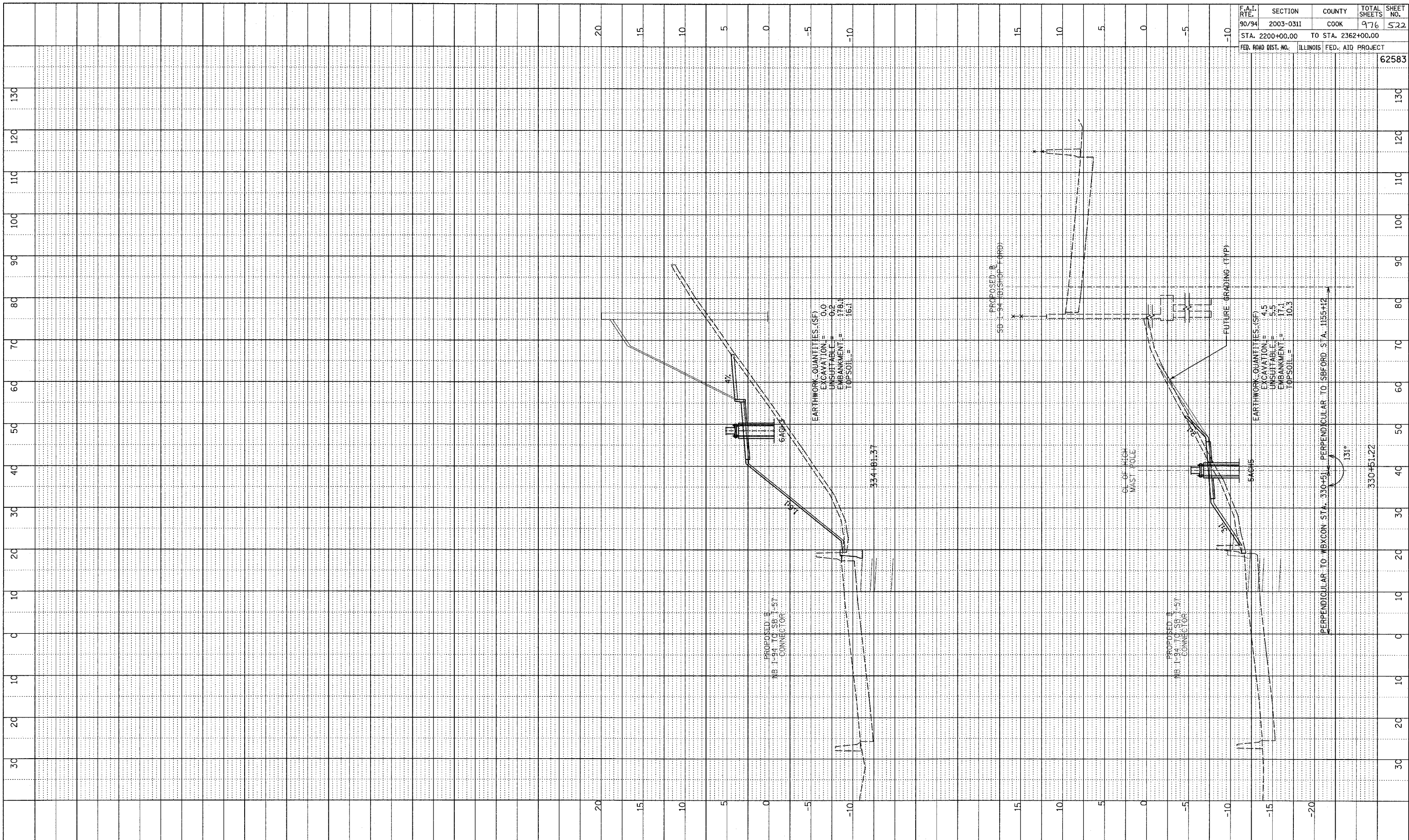
SB I-94 (BISHOP FORD FREEWAY)  
STA. 1128+20 TO STA. 1137+89

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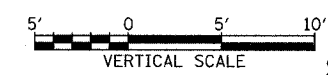
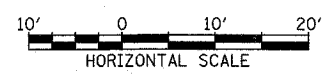


PLOTTED  
 GRADES CHECKED  
 STRUCTURE NOTATION OK'D  
 NO. \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	522
STA. 2200+00.00 TO STA. 2362+00.00		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		62583		



TYLIN INTERNATIONAL



NB I-94 TO SB I-57 CONNECTOR  
 STA. 330+51.22 TO STA. 334+81.37



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	476	624
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

62583

**Wang Engineering, INC.**  
Consulting Geotechnical and Environmental Engineers  
wangeng3@wangeng.com  
1145 Main Street  
Lombard, IL 60148  
Telephone: 630 953-9928  
Fax: 630 953-9938

**BORING LOG 6AIJ2**  
WEI Job No.: 414-07-01  
Datum: CCD  
Elevation: 15.18 ft  
North: 1839583.65 ft  
East: 1175485.76 ft  
Station: 118+00  
Offset: 76' LT

Client: T. Y. LIN International  
Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
Location: From 95th Street to South of 69th Street

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blow/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blow/6 in)	Qu (tsf)	Moisture Content (%)
14.4	3-inch thick, black LOAM --TOPSOIL-- Stiff, brown and gray CLAY	0-3	1	3 3 4	1.89 B	28	14.4		0-3	11	7 17 19	5.66 S	11
		3-5	2	3 3 4	1.23 B	31			3-5	12	6 12 16	7.38 B	11
8.7	Very soft to medium stiff, gray CLAY	5-10	3	1 1 2	0.33 B	46			5-10	13		NP	13
		10-15	4	0 0 4	0.25 P	42			10-15	14	50/2		
		15-20	5	0 0 1	0.16 B	23			15-20	15			
		20-25	6	0 1 3	0.66 B	19			20-25	16			
1.3	Hard, gray gravelly SILTY CLAY	25-30	7	3 7 13	5.33 B	13			25-30	17			
2.2	Medium dense, gray SANDY LOAM	30-35	8	4 8 12	4.76 B	12			30-35	18			
2.8	Hard, gray gravelly SILTY CLAY	35-40	9	6 10 14	5.99 B	13			35-40	19			
		40-45	10	6 6 9	4.89 B	15			40-45	20			

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-27-2004	Complete Drilling	08-27-2004	While Drilling	▽	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 TMR	At Completion of Drilling	▽	DRY	
Driller	J&L	Logger	N. Davis	Time After Drilling	NA		
Drilling Method	3.25" ID. HSA; Boring backfilled with bentonite upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

**Wang Engineering, INC.**  
Consulting Geotechnical and Environmental Engineers  
wangeng3@wangeng.com  
1145 Main Street  
Lombard, IL 60148  
Telephone: 630 953-9928  
Fax: 630 953-9938

**BORING LOG 6AIJ1**  
WEI Job No.: 414-07-01  
Datum: CCD  
Elevation: 3.86 ft  
North: 1839569.52 ft  
East: 1175956.17 ft  
Station: 122+79  
Offset: 70' LT

Client: T. Y. LIN International  
Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
Location: From 95th Street to South of 69th Street

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blow/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blow/6 in)	Qu (tsf)	Moisture Content (%)
1.4	6-inch thick, black CLAY LOAM --TOPSOIL-- Very stiff to hard, brown and gray CLAY LOAM	0-6	1	5 5 5	5.33 B	14	11.1	Very dense, gray SILT	0-6	11	47 44 50/2	NP	10
		6-10	2	5 7 7	2.09 B	18			6-10	12	50/2		
1.6	Very stiff to hard, gray SILTY CLAY	10-15	3	3 3 5	4.18 B	15			10-15	13			
		15-20	4	4 6 6	4.84 B	14			15-20	14			
		20-25	5	2 4 5	5.08 B	15			20-25	15			
		25-30	6	3 4 6	3.69 B	14			25-30	16			
		30-35	7	4 7 9	7.79 B	12			30-35	17			
		35-40	8	4 8 8	8.61 S	12			35-40	18			
		40-45	9	6 10 15	9.27 S	11			40-45	19			
		45-50	10	6 14 15	10.25 B	10			45-50	20			

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-19-2004	Complete Drilling	08-19-2004	While Drilling	▽	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 TMR	At Completion of Drilling	▽	DRY	
Driller	J&L	Logger	Y. Shiu	Time After Drilling	NA		
Drilling Method	3.25" ID. HSA; Boring backfilled with bentonite upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

TYLIN INTERNATIONAL

**LEGEND**

NP	NON-PLASTIC
B	BULGE FAILURE
S	SHEAR FAILURE
P	POCKET PENETROMETER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
31st STREET to I-57  
BORING LOGS FOR HMLT'S  
6 AIJ2 & 6 AIJ1

S.N. DESIGNED BY: DJR  
SCALE: N.T.S. DRAWN BY: DJR  
DATE: OCTOBER 29, 2004 CHECKED BY: TD

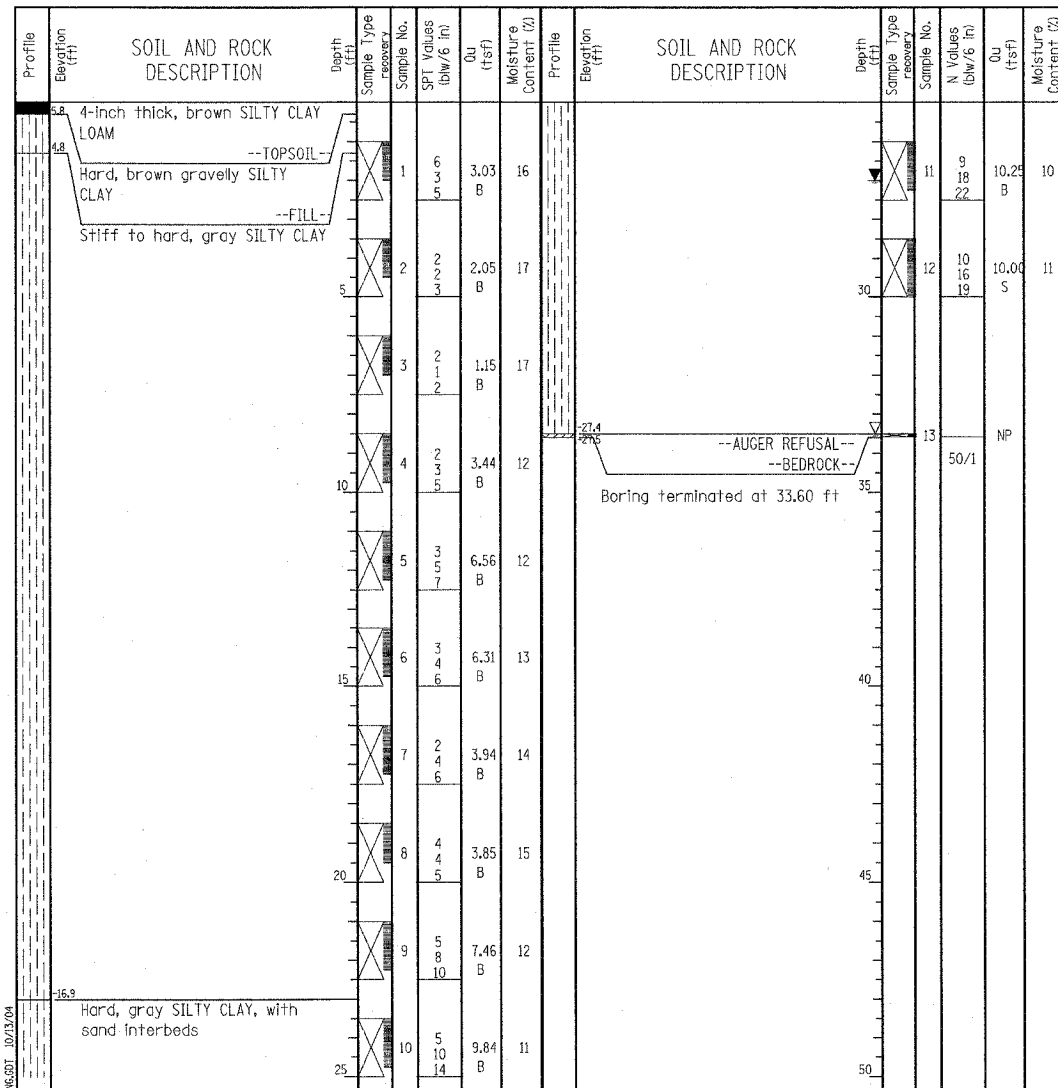
10/15/2004 12:47:20 PM



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**BORING LOG 6ACD1**  
WEI Job No.: 414-07-01  
Datum: CCD  
Elevation: 6.12 ft  
North: 1839674.33 ft  
East: 1176395.29 ft  
Station: 127+50  
Offset: 75' LT

Client: T. Y. LIN International  
Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
Location: From 95th Street to South of 69th Street

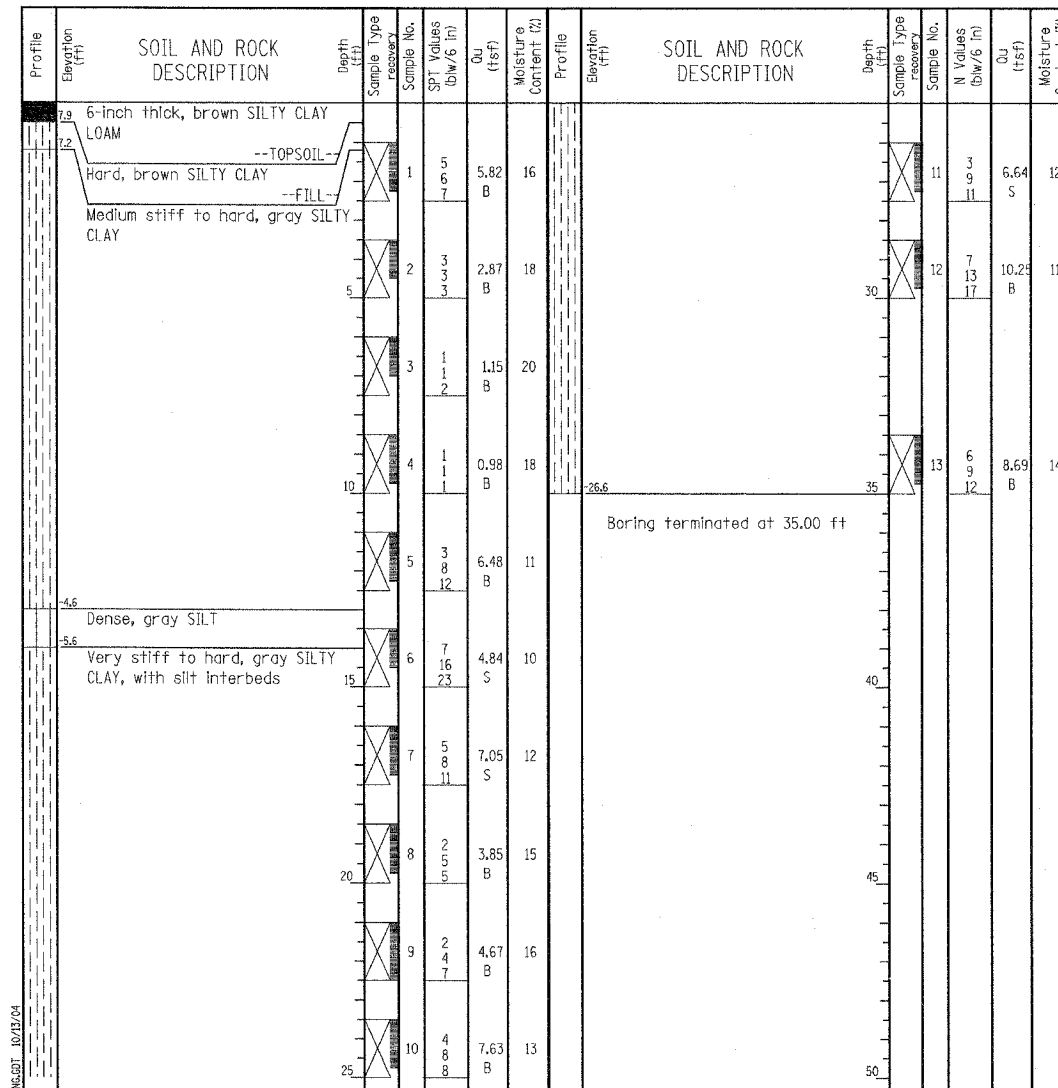


GENERAL NOTES				WATER LEVEL DATA	
Begin Drilling	08-18-2004	Complete Drilling	08-18-2004	While Drilling	33.50 ft
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 TMR	At Completion of Drilling	27.00 ft
Driller	J&L	Logger	J. Kasnick	Time After Drilling	NA
Drilling Method	3.25" ID. HSA; Boring backfilled with bentonite upon completion				

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**BORING LOG 6ACD2**  
WEI Job No.: 414-07-01  
Datum: CCD  
Elevation: 8.44 ft  
North: 1839880.35 ft  
East: 1176793.68 ft  
Station: 132+17  
Offset: 78' LT

Client: T. Y. LIN International  
Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
Location: From 95th Street to South of 69th Street



GENERAL NOTES				WATER LEVEL DATA	
Begin Drilling	08-20-2004	Complete Drilling	08-20-2004	While Drilling	DRY
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 TMR	At Completion of Drilling	DRY
Driller	J&L	Logger	J. Kasnick	Time After Drilling	NA
Drilling Method	3.25" ID. HSA; Boring backfilled with bentonite upon completion				

**LEGEND**

NP	NON-PLASTIC
B	BULGE FAILURE
S	SHEAR FAILURE
P	POCKET PENETROMETER

**TYLIN INTERNATIONAL**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
31st STREET to I-57  
BORING LOGS FOR HMLT'S  
6 ACD1 & 6 ACD2

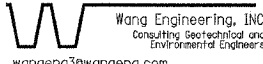
S.N. DESIGNED BY: DJR  
SCALE: N.T.S. DRAWN BY: DJR  
DATE: OCTOBER 29, 2004 CHECKED BY: TD

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### BORING LOG 6AGH1


WEI Job No.: 414-07-01

Datum: CCD  
Elevation: 9.70 ft  
North: 1839389.88 ft  
East: 1176509.03 ft  
Station: 230+00  
Offset: 76' RT

Client: T. Y. LIN International  
Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
Location: From 95th Street to South of 69th Street

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
9.70	3-inch thick, black CLAY LOAM --TOPSOIL-- Hard, brown and gray SILTY CLAY --FILL--	0	1	7 5 5	4.50	20	9.70		0	11	9 5 5	7.38	13
6.7	Soft to stiff, gray CLAY	5	2	2 4 2	1.31	19	20.3		5	12	8 14 14	8.61	12
			3	1 1 2	0.49	19							
		10	4	1 1 2	0.33	21							
		15	5	0 0 0	0.57	21							
		20	6	1 3 6	1.89	14							
5.8	Very stiff to hard, gray SILTY CLAY	25	7	4 1 5	6.23	12							
		30	8	7 1 4	2.87	15							
		35	9	2 7 8	5.74	12							
		40	10	6 5 8	4.67	13							

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-03-2004	Complete Drilling	08-03-2004	While Drilling	▽	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 TMR	At Completion of Drilling	▽	DRY	
Driller	J&L	Logger	Y. Shiu	Time After Drilling	NA		
Drilling Method	3.25" ID. HSA; Boring backfilled with bentonite upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							



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### BORING LOG 6AGH2

WEI Job No.: 414-07-01

Datum: CCD  
Elevation: 6.61 ft  
North: ft  
East: ft  
Station: 235+08  
Offset: 34' RT

Client: T. Y. LIN International  
Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
Location: From 95th Street to South of 69th Street

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
6.61	12-inch thick, black CLAY LOAM --TOPSOIL-- Medium stiff to hard, gray SILTY CLAY	0	1	5 5 4	2.05	27	6.61		0	11	4 12 16	1.97	11
		5	2	4 3 4	1.80	17	23.4		5	12	9 13 19	7.13	11
		10	3	2 2 2	0.98	19							
		15	4	2 2 3	2.54	18							
		20	5	6 13 14	4.50	12							
		25	6	8 13 11	4.50	11							
8.1	Medium dense, gray coarse SAND	30	7	4 7 7	4.51	15							
9.6	Stiff to hard, gray gravelly SILTY CLAY	35	8	3 14 11	3.94	13							
		40	9	2 5 5	3.94	13							
		45	10	3 9 8	5.49	12							

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-03-2004	Complete Drilling	08-03-2004	While Drilling	▽	14.75 ft	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 TMR	At Completion of Drilling	▽	DRY	
Driller	J&L	Logger	Y. Shiu	Time After Drilling	NA		
Drilling Method	3.25" ID. HSA; Boring backfilled with bentonite upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

**TYLIN INTERNATIONAL**

**LEGEND**

NP	NON-PLASTIC
B	BULGE FAILURE
S	SHEAR FAILURE
P	POCKET PENETROMETER

REVISIONS	
NAME	DATE

SHEET 6 OF 30

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
31st STREET to I-57  
BORING LOGS FOR HMLT'S  
6 AGH1 & 6 AGH2

S.N. \_\_\_\_\_ DESIGNED BY: DJR  
SCALE: N.T.S. DRAWN BY: DJR  
DATE: OCTOBER 29, 2004 CHECKED BY: TD

10/15/2004 12:50:34 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-031I	COOK	476	530
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

62583

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**BORING LOG 6AGH4**  
 WEI Job No.: 414-07-01  
 Client: T. Y. LIN International  
 Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
 Location: From 95th Street to South of 69th Street

Datum: CCD  
 Elevation: 26.40 ft  
 North: ft  
 East: ft  
 Station: 244+51  
 Offset: 8' RT

Page 1 of 1

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**BORING LOG 6MAB3**  
 WEI Job No.: 414-07-01  
 Client: T. Y. LIN International  
 Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
 Location: From 95th Street to South of 69th Street

Datum: CCD  
 Elevation: 9.34 ft  
 North: ft  
 East: ft  
 Station: 2040+44  
 Offset: 39' LT

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
22.7	Hard, brown SILTY CLAY --FILL--	0	1	6 5 6	4.02	15	26.40		0	11	6 13 16	2.05	12
22.7	Medium stiff to very stiff, gray CLAY	5	2	5 4 5	2.46	17	26.40		5	12	4 8 10	5.17	11
		10	3	2 3 2	1.39	19			10	13	6 11 13	6.07	14
		15	4	1 2 2	0.98	50			15	5	1 2 3	2.21	1
15.4	Very stiff to hard, gray gravelly SILTY CLAY	20	6	3 4 4	3.28	7			20	8	3 5 8	4.67	13
		25	7	3 4 4	4.26	11			25	9	3 5 7	3.77	15
		30	8	3 4 4	4.67	13			30	10	3 6 4	4.35	12
		35	9	3 4 4	4.26	11			35				
		40	10	3 4 4	4.26	11			40				
		45							45				
		50							50				

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
25.7	18-inch thick, GRAVEL --FILL--	0	1	5 2 2	4.50	17	9.34		0	11	5 8 11	5.49	14
25.7	Hard, black and brown SILTY CLAY --FILL--	5	2	5 5 6	4.18	18	9.34		5	12	8 13 16	6.31	13
	Medium stiff to hard, brown and gray CLAY	10	3	3 3 2	1.56	18			10	13	8 18 21	6.64	14
		15	4	1 1 2	0.98	20			15	5	0 0 0	0.16	22
	Very soft, gray CLAY	20	6	5 8 10	NP	16			20	8	3 8 11	7.13	13
		25	7	5 11 14	4.76	12			25	9	3 5 8	5.33	16
		30	8	3 8 11	7.13	13			30	10	4 8 10	5.74	14
		35	9	3 5 8	5.33	16			35				
		40	10	4 8 10	5.74	14			40				
		45							45				
		50							50				

<b>GENERAL NOTES</b>				<b>WATER LEVEL DATA</b>			
Begin Drilling	08-24-2004	Complete Drilling	08-24-2004	While Drilling	▽	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 TMR	At Completion of Drilling	▽	DRY	
Driller	J&L	Logger	N. Davis	Time After Drilling	NA		
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite upon completion			Depth to Water	▽	NA	

<b>GENERAL NOTES</b>				<b>WATER LEVEL DATA</b>			
Begin Drilling	08-24-2004	Complete Drilling	08-24-2004	While Drilling	▽	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 TMR	At Completion of Drilling	▽	DRY	
Driller	J&L	Logger	N. Davis	Time After Drilling	NA		
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite upon completion			Depth to Water	▽	NA	

**LEGEND**

NP	NON-PLASTIC
B	BULGE FAILURE
S	SHEAR FAILURE
P	POCKET PENETROMETER

**TYLIN INTERNATIONAL**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 31st STREET to I-57  
**BORING LOGS FOR HMLT'S**  
**6 AGH4 & 6 MAB3**

S.N. DESIGNED BY: DJR  
 SCALE: N.T.S. DRAWN BY: DJR  
 DATE: OCTOBER 29, 2004 CHECKED BY: TD

**W** Wang Engineering, INC.  
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**BORING LOG 60EF2** Page 1 of 1

WEI Job No.: 414-07-01  
Client: T. Y. LIN International  
Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
Location: From 95th Street to South of 69th Street

Datum: CCD  
Elevation: 11.85 ft  
North: 1841288.21 ft  
East: 1177934.38 ft  
Station: 2044+97  
Offset: 57' RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	N Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
11.3	6-inch thick, brown CLAY LOAM --TOPSOIL-- Stiff to very stiff, brown and gray CLAY to SILTY CLAY	0		1	5 7 5	1.89 B	18	11.3	Very stiff to hard, gray SILTY CLAY	0		11	11 12 11	3.61 B	12
6.3	Medium stiff, gray CLAY	5		2	6 5 4	2.05 B	19	30		30		12	7 8 14	4.51 B	11
		10		3	4 4 5	0.98 B	19	35		35		13	15 18 18	4.50 P	12
		15		4	2 2 2	0.57 B	21								
		20		5	0 1 1	0.57 B	21								
-2.0	Loose, gray, coarse SAND Medium stiff, gray CLAY, with gravel	25		6	0 2 4	0.66 B	15								
-3.7	Very stiff to hard, gray SILTY CLAY	30		7	6 11 14	4.26 B	10								
		35		8	10 43 32	3.03 B	12								
		40		9	5 7 10	4.10 B	13								
		45		10	8 17 14	NP	12								
-11.2	Dense, gray SILT	50													

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-13-2004	Complete Drilling	08-13-2004	While Drilling	☒	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV	At Completion of Drilling	☒	DRY	
Driller	J&L	Logger	Y. Shiu	Time After Drilling	NA		
Drilling Method	3.25" ID. HSA; Boring backfilled with bentonite upon completion			Depth to Water	☒	NA	

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**BORING LOG 5AGH5** Page 1 of 1

WEI Job No.: 414-07-01  
Client: T. Y. LIN International  
Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
Location: From 95th Street to South of 69th Street

Datum: CCD  
Elevation: -10.37 ft  
North: 1839897.49 ft  
East: 1177800.29 ft  
Station: 1158+87  
Offset: 44' LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	N Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
10.7	4-inch thick, brown SILTY CLAY LOAM --TOPSOIL-- Very stiff to hard, brown SILTY CLAY	0		1	4 6 8 10	3.28 S	13	10.7		0		12	4 12 16	7.38 S	12
		5		2	7 8 9 7	5.41 B	15	39.1		39.1		13	21 88.1	3.36 S	12
		10		3	5 6 6 6	2.79 B	15								
		15		4	3 6 12 11	7.95 B	17								
		20		5	8 9 15 13	10.25 B	10								
		25		6	4 10 15	8.77 S	12								
		30		7	5 12 15	8.86 S	12								
		35		8	5 11 14	9.18 S	12								
		40		9	6 10 15	6.72 B	10								
		45		10	2 3 10	5.17 B	16								
		50		11	4 10 12	8.20 S	13								

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-20-2004	Complete Drilling	08-20-2004	While Drilling	☒	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 TMR	At Completion of Drilling	☒	DRY	
Driller	J&L	Logger	J. Kosnick	Time After Drilling	NA		
Drilling Method	3.25" ID. HSA; Boring backfilled with bentonite upon completion			Depth to Water	☒	NA	

**LEGEND**

NP NON-PLASTIC  
B BULGE FAILURE  
S SHEAR FAILURE  
P POCKET PENETROMETER

**TYLIN INTERNATIONAL**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
31st STREET to I-57  
BORING LOGS FOR HMLT'S  
6 OEF2 & 5 AGH5

S.N. DESIGNED BY: DJR  
SCALE: N.T.S. DRAWN BY: DJR  
DATE: OCTOBER 29, 2004 CHECKED BY: TD

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**BORING LOG 6AGH3**  
 WEI Job No.: 414-07-01  
 Datum: CCD  
 Elevation: -8.17 ft  
 North: 1839930.78 ft  
 East: 1177363.22 ft  
 Station: 239+89  
 Offset: 55' RT

Client: T. Y. LIN International  
 Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
 Location: From 95th Street to South of 69th Street

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
-8.17	4-inch thick, brown SILTY CLAY LOAM --TOPSOIL-- Stiff, brown SILTY CLAY --FILL--	0-4	1	5 4 4	1.39	13	-36.2	--WEATHERED BEDROCK--	0-4	11	2 42 44	2.50	13
-12.0	Very stiff to hard, gray SILTY CLAY, with sand and silt Interbeds	4-5	2	4 4 5	5.41	14	-38.2		4-5	12	50/5	NP	
		5-10	3	3 2 9	2.71	17			10-15	3			
		10-12	4	7 12 12	5.90	11			15-20	5			
		12-15	6	6 13 16	9.59	12			20-25	8			
		15-20	7	3 9 11	9.02	12			25-30	9			
		20-25	8	2 9 9	7.79	12			30-35	10			
-28.7	Stiff, gray gravelly SANDY CLAY LOAM, with sand Interbeds	25-30	9	4 11 13	1.39	10			35-40	11			
-31.2	Medium dense, gray SAND	30-35							40-45	12			
-32.2	Very stiff, gray CLAY to SILTY CLAY, with silt Interbeds	35-40	10	3 5 6	3.94	20			45-50	13			

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-20-2004	Complete Drilling	08-20-2004	While Drilling	▽	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 TMR	At Completion of Drilling	▽	DRY	
Driller	J&L	Logger	J. Kasnick	Time After Drilling		NA	
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite upon completion			Depth to Water	▽	NA	

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**BORING LOG 5MMN5**  
 WEI Job No.: 414-07-01  
 Datum: CCD  
 Elevation: 5.38 ft  
 North: 1839569.88 ft  
 East: 1177468.46 ft  
 Station: 420+54  
 Offset: 65' LT

Client: T. Y. LIN International  
 Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
 Location: From 95th Street to South of 69th Street

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
-5.4	3-inch thick, black CLAY LOAM --TOPSOIL-- Very stiff, gray CLAY to SILTY CLAY --FILL--	0-3	1	2 5 6	3.25	16	-24.6		0-3	11	8 8 8	7.63	12
		3-5	2	2 5 5	2.50	16			3-5	12	10 15 19	4.50	10
		5-10	3	3 3 5	1.48	15			10-15	3			
		10-15	4	4 4 6	1.48	11			15-20	5			
		15-20	6	2 3 5	3.94	14			20-25	7			
		20-25	8	3 3 5	3.28	14			25-30	9			
		25-30	7	1 4 4	3.28	15			30-35	10			
		30-35	8	4 7 8	4.51	13			35-40	11			
		40-45	9	5 10 13	2.87	12			45-50	12			
		45-50	10	6 10 13	8.61	12							

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-03-2004	Complete Drilling	08-03-2004	While Drilling	▽	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 TMR	At Completion of Drilling	▽	DRY	
Driller	J&L	Logger	Y. Shiu	Time After Drilling		NA	
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite upon completion			Depth to Water	▽	NA	

**TYLIN INTERNATIONAL**

**LEGEND**

NP	NON-PLASTIC
B	BULGE FAILURE
S	SHEAR FAILURE
P	POCKET PENETROMETER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 31st STREET to I-57  
**BORING LOGS FOR HMLT'S  
 6 AGH3 & 5 MMN5**

S.N. DESIGNED BY: DJR  
 SCALE: N.T.S. DRAWN BY: DJR  
 DATE: OCTOBER 29, 2004 CHECKED BY: TD

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**BORING LOG 6MMN4** Page 1 of 1

WEI Job No.: 414-07-01  
Client: T. Y. LIN International  
Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
Location: From 95th Street to South of 69th Street

Datum: CCD  
Elevation: 4.68 ft  
North: 1839564.53 ft  
East: 1177977.13 ft  
Station: 1155+21  
Offset: 69' LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	N Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
4.4	3-inch thick, black CLAY LOAM --TOPSOIL-- Stiff to very stiff, brown and gray SILTY CLAY	0	X	1	10 11 12	2.13 B	12	25.3		0	X	11	6 15 16	5.17 B	10
		5	X	2	2 4 6	2.38 B	16			5	X	12	9 14 15	5.58 B	11
		10	X	3	3 4 4	2.38 B	14			10	X	4	3 4 4	1.56 B	12
		15	X	6	4 6 8	4.51 B	13			15	X	7	4 8 7	4.92 B	13
		20	X	8	3 7 5	2.46 B	19			20	X	9	3 8 13	4.92 B	12
		25	X	10	4 11 16	4.51 B	11			25	X	10	4 11 16	4.51 B	11

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-03-2004	Complete Drilling	08-03-2004	While Drilling	∇	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 TMR	At Completion of Drilling	∇	DRY	
Driller	J&L	Logger	Y. Shiu	Time After Drilling	NA		
Drilling Method	3.25" ID. HSA; Boring backfilled with bentonite upon completion			Depth to Water	∇	NA	

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**BORING LOG 6MMN3** Page 1 of 1

WEI Job No.: 414-07-01  
Client: T. Y. LIN International  
Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
Location: From 95th Street to South of 69th Street

Datum: CCD  
Elevation: 3.18 ft  
North: 1839269.86 ft  
East: 1178217.88 ft  
Station: 1151+56  
Offset: 92' LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	N Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
	Medium stiff to very stiff, gray CLAY	0	X	1	6 5 3	3.34 B	21		Boring terminated at 25.00 ft						
		5	X	2	3 3 2	0.90 B	23			5	X	3	1 3 7	4.50 P	14
		10	X	4	6 5 7	3.28 B	14			10	X	5	4 4 4	3.20 S	17
		15	X	6	6 6 9	4.26 S	15			15	X	6	7 18 22	4.59 S	12
		20	X	8	7 18 22	4.59 S	12			20	X	7	8 14 21	4.50 P	12
		25	X	9	13 30 27	4.50 P	11			25	X	8	7 18 22	4.59 S	12
		30	X	10	10 26 41	4.50 P	24			30	X	9	13 30 27	4.50 P	11

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-05-2004	Complete Drilling	08-05-2004	While Drilling	∇	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV	At Completion of Drilling	∇	DRY	
Driller	J&L	Logger	B. Fugiel	Time After Drilling	NA		
Drilling Method	3.25" ID. HSA; Boring backfilled with bentonite upon completion			Depth to Water	∇	NA	

**LEGEND**

NP	NON-PLASTIC
B	BULGE FAILURE
S	SHEAR FAILURE
P	POCKET PENETROMETER

**TYLIN INTERNATIONAL**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
31st STREET to I-57  
BORING LOGS FOR HMLT'S  
6 MMN4 & 6 MMN3

S.N. DESIGNED BY: DJR  
SCALE: N.T.S. DRAWN BY: DJR  
DATE: OCTOBER 29, 2004 CHECKED BY: TD

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**BORING LOG 5MKL3**

WEI Job No.: 414-07-01

Datum: CDD  
 Elevation: 3.81 ft  
 North: 1838836.53 ft  
 East: 1180490.04 ft  
 Station: 1128+26  
 Offset: 41' LT

Client: T. Y. LIN International  
 Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
 Location: From 95th Street to South of 69th Street

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
3.1	8-inch thick, brown SILTY CLAY LOAM														
	--TOPSOIL--														
	Very stiff to hard, brown and gray SILTY CLAY	1	X	4	4	3.77	19				X	11	27	4.50	12
		2	X	4	4	3.28	18				X	12	21	4.50	11
		5	X	4	4			26.2							
		3	X	5	7	4.51	20								
		4	X	3	5	3.44	20								
		10	X	9	9										
5.7	Very stiff, brown CLAY	5	X	2	8	2.08	9								
3.2	Very stiff to hard, SILTY CLAY	6	X	6	6	3.94	15								
		7	X	2	8	5.17	14								
		8	X	7	9	7.38	14								
		9	X	7	12	7.63	14								
		10	X	11	20	4.50	11								
		25													

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-06-2004	Complete Drilling	08-06-2004	While Drilling	▽	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV	At Completion of Drilling	▽	DRY	
Driller	K&M	Logger	B. Fugiel	Time After Drilling		NA	
Drilling Method	3.25" ID. HSA; Boring backfilled with bentonite upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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**BORING LOG 5MKL2**

WEI Job No.: 414-07-01

Datum: CDD  
 Elevation: 5.62 ft  
 North: 1838812.25 ft  
 East: 1180036.87 ft  
 Station: 1132+79  
 Offset: 52' LT

Client: T. Y. LIN International  
 Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
 Location: From 95th Street to South of 69th Street

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
5.1	6-inch thick, brown SILTY CLAY LOAM														
	--TOPSOIL--														
	Very stiff to hard, gray SILTY CLAY	1	X	4	4	4.10	19								
		2	X	4	4	3.28	24								
		5	X	4	4										
		3	X	2	4	2.12	20								
		4	X	1	4	4.92	24								
		10	X	5	5										
4.9	Stiff, gray CLAY	5	X	1	5	1.64	26								
1.4	Very stiff, gray SILTY CLAY LOAM, with sand interbeds	6	X	1	6	2.50	28								
9.3	Very stiff to hard, gray SILTY CLAY	7	X	5	6	2.46	13								
		8	X	7	13	4.50	12								
		9	X	12	14	6.15	13								
		17.4													
	Very dense, gray SILT	19	X	19	24	NP	14								
		25													

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-06-2004	Complete Drilling	08-06-2004	While Drilling	▽	14.00 ft	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV	At Completion of Drilling	▽	DRY	
Driller	J&L	Logger	B. Fugiel	Time After Drilling		NA	
Drilling Method	3.25" ID. HSA; Boring backfilled with bentonite upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

**TYLIN INTERNATIONAL**

**LEGEND**

NP	NON-PLASTIC
B	BULGE FAILURE
S	SHEAR FAILURE
P	POCKET PENETROMETER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 31st STREET to I-57

**BORING LOGS FOR HMLT'S  
 5 MKL3 & 5 MKL2**

S.N. DESIGNED BY: DJR  
 SCALE: N.T.S. DRAWN BY: DJR  
 DATE: OCTOBER 29, 2004 CHECKED BY: TD

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**BORING LOG 6MKL1** Page 1 of 1

WEI Job No.: 414-07-01

Datum: CCD  
 Elevation: 6.07 ft  
 North: 1838798.30 ft  
 East: 1179557.96 ft  
 Station: 1137+57  
 Offset: 53' LT

Client: T. Y. LIN International  
 Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
 Location: From 95th Street to South of 69th Street

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
5.3	9-inch thick, SILTY CLAY LOAM --TOPSOIL-- Stiff to hard, brown and gray SILTY CLAY			1	2 3 4	1.64	33		Boring terminated at 25.00 ft						
		5		2	1 3 4	2.30	20			30					
		10		3	4 5 7	3.20	22			35					
		15		4	2 4 6	2.46	24			40					
		20		5	2 4 6	3.85	15			45					
		25		6	3 6 7	5.58	14			50					
14.4	Dense, gray SILT			7	3 4 5	5.00	15								
16.9	Hard, gray SILTY CLAY			8	9 14 15	4.50	14								
18.9				9	11 15 22	NP	15								
				10	15 21 29	7.71	12								

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-06-2004	Complete Drilling	08-06-2004	While Drilling	∇	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV	At Completion of Drilling	∇	DRY	
Driller	K&M	Logger	B. Fugiel	Time After Drilling	NA		
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite upon completion			Depth to Water	∇	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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**BORING LOG 6MMN1** Page 1 of 1

WEI Job No.: 414-07-01

Datum: CCD  
 Elevation: 1.12 ft  
 North: 1838873.09 ft  
 East: 1179048.38 ft  
 Station: 1142+61  
 Offset: 45' LT

Client: T. Y. LIN International  
 Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
 Location: From 95th Street to South of 69th Street

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
0.1	14-inch thick, black SILTY CLAY LOAM --FILL-- Very stiff, brown and gray CLAY			1	3 4 6	3.44	24		Boring terminated at 25.00 ft						
1.9	Very stiff, gray SILTY CLAY			2	4 6 9	3.28	21			30					
5.1	Loose, gray SILTY LOAM			3	3 4 4	NP	24			35					
6.9	Loose, gray SANDY LOAM			4	2 5 4	NP	31			40					
8.4	Very stiff to hard, gray SILTY CLAY			5	5 4 9	3.94	13			45					
				6	6 11 15	4.43	14			50					
				7	6 11 18	5.08	17								
				8	7 9 11	4.10	12								
18.4	Very dense, gray SILT to SILTY LOAM			9	11 20 20	NP	19								
23.9				10	15 32 34	NP	9								

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-05-2004	Complete Drilling	08-05-2004	While Drilling	∇	6.25 ft	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 TMR	At Completion of Drilling	∇	DRY	
Driller	J&L	Logger	B. Fugiel	Time After Drilling	NA		
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite upon completion			Depth to Water	∇	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

**LEGEND**

NP	NON-PLASTIC
B	BULGE FAILURE
S	SHEAR FAILURE
P	POCKET PENETROMETER

**TYLIN INTERNATIONAL**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 31st STREET to I-57

BORING LOGS FOR HMLT'S  
 6 MKL1 & 6 MMN1

S.N. DESIGNED BY: DJR  
 SCALE: N.T.S. DRAWN BY: DJR  
 DATE: OCTOBER 29, 2004 CHECKED BY: TD

USE BORING FOR HMLT 6 OIJ4

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**BORING LOG 6MMN2**  
WEI Job No.: 414-07-01  
Datum: CCD  
Elevation: -1.16 ft  
North: 1839019.12 ft  
East: 1178653.62 ft  
Station: 1146+72  
Offset: 51' LT

Client: T. Y. LIN International  
Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
Location: From 95th Street to South of 69th Street

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	N Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
-2.4	14-inch thick, black CLAY LOAM								Boring terminated at 25.00 ft						
	--TOPSOIL--														
	Hard, gray SILTY CLAY	1	P	3	4	6	4.50	15							
	Very stiff, gray CLAY	5	B	3	4	6	3.28	22							
	Very stiff to hard, gray SILTY CLAY	10	P	4	7	7	3.50	17							
		15	S	2	4	6	3.03	15							
		20	B	3	5	7	3.44	16							
		25	P	3	5	8	3.69	18							
		30	S	2	6	8	4.50	12							
		35	P	4	14	15	5.00	11							
		40	P	10	18	20	4.50	12							
		45	S	11	20	22	4.76	23							

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-05-2004	Complete Drilling	08-05-2004	While Drilling	▽	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 TMR	At Completion of Drilling	▽	DRY	
Driller	J&L	Logger	B. Fugiel	Time After Drilling	NA		
Drilling Method	3.25" ID. HSA; Boring backfilled with bentonite upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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**BORING LOG SB 34-01**  
WEI Job No.: 414-07-01  
Datum: CCD  
Elevation: 15.93 ft  
North: 1842437.11 ft  
East: 1177613.92 ft  
Station: 1210+57.1  
Offset: 133.433' LT

Client: T. Y. LIN International  
Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
Location: From 95th Street to South of 69th Street

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	N Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
15.6	4-inch thick, ASPHALT														
14.3	--PAVEMENT--														
	8-inch thick, CONCRETE														
	--PAVEMENT--														
	Stiff, black and brown CLAY	1	B	11	6	4	1.07	21							
	--FILL--														
	Very soft, brown and gray CLAY	5	B	5	3	3	0.49	36							
		10	P	1	1	2	0.25	21							
		15	B	1	1	2	0.16	24							
		20	P	1	1	1	0.25	18							
		25	B	1	1	2	0.25	19							
		30	P	15	33	35	NP	5							
		35	B	9	11	12	NP	15							
		40	B	6	10	14	5.08	10							
		45	B	5	7	8	5.49	14							

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	02-06-2004	Complete Drilling	02-06-2004	While Drilling	▽	18.80 ft	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 TMR	At Completion of Drilling	▽	DRY	
Driller	J&L	Logger	N. Davis	Time After Drilling	NA		
Drilling Method	3.25" ID. HSA; Boring backfilled with bentonite upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

**LEGEND**

NP	NON-PLASTIC
B	BULGE FAILURE
S	SHEAR FAILURE
P	POCKET PENETROMETER

**TYLIN INTERNATIONAL**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
31st STREET to I-57

**BORING LOGS FOR HMLT'S  
6 MMN2 & 6 OIJ4**

S.N. DESIGNED BY: DJR  
SCALE: N.T.S. DRAWN BY: DJR  
DATE: OCTOBER 29, 2004 CHECKED BY: TD

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**BORING LOG 5PAB3** Page 1 of 1

WEI Job No.: 414-07-01  
Client: T. Y. LIN International  
Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
Location: From 95th Street to South of 69th Street

Datum: CCD  
Elevation: 8.64 ft  
North: 1847881.67 ft  
East: 1177467.83 ft  
Station: 1265+04  
Offset: 124' LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	N Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
12.2	Gray SANDY LOAM														
	--TOPSOIL--														
	Loose, brown SAND			1	4 2 2	NP	13					10	5 8 1	3.94	13
	--FILL--														
5.6	Very stiff, black CLAY LOAM			2	1 1 3	2.50	4					12	5 8 11	4.35	13
	--FILL--														
3.1	Soft to medium stiff, gray CLAY			3	2 1 2	0.49	25	23.4	Very dense, gray SILTY LOAM						
				4	1 0 1	0.41	22	26.4				13	17 27 30	NP	7
									Boring terminated at 35.00 ft						
				5	0 1 1	0.49	23								
				6	0 1 3	0.66	21								
				7	2 8 11	3.94	19								
6.9	Very stiff, gray SILTY CLAY														
9.4	Medium dense, gray, coarse SAND to SANDY LOAM			8	4 7 6	NP	18								
11.9	Very stiff to hard, gray SILTY CLAY			9	5 8 12	4.92	13								
				11	6 9 13	3.77	14								

GENERAL NOTES				WATER LEVEL DATA	
Begin Drilling	08-10-2004	Complete Drilling	08-10-2004	While Drilling	19.00 ft
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 TMR	At Completion of Drilling	DRY
Driller	K&M	Logger	B. Fugiel	Time After Drilling	NA
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite upon completion			Depth to Water	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.					

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**BORING LOG 5PAB1** Page 1 of 1

WEI Job No.: 414-07-01  
Client: T. Y. LIN International  
Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
Location: From 95th Street to South of 69th Street

Datum: CCD  
Elevation: 7.09 ft  
North: 1848789.81 ft  
East: 1177459.79 ft  
Station: 7181+59  
Offset: 32' RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	N Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
6.6	Brown SILTY CLAY LOAM														
	--TOPSOIL--														
	Very stiff, brown SILTY CLAY			1	5 5 4	NP	6	18.4	Hard, gray SILTY CLAY						
	--FILL--														
4.1	Loose, brown, fine SAND														
	--FILL--														
	Very stiff, brown and gray SILTY CLAY			2	3 4 3	3.36	21					10	9 11 14	6.64	12
				5	2 2 3	0.82	22	23.9	Very dense, gray SILTY LOAM						
1.6	Soft to medium stiff, gray CLAY														
				4	1 1 2	0.57	24	25.7							
									Boring terminated at 32.83 ft						
				5	1 1 2	0.33	23								
				6	1 1 3	0.57	20								
				7	4 8 14	5.90	13								
8.4	Hard, gray SILTY CLAY														
11.7	Medium dense, gray SANDY LOAM			8	7 12 16	2.87	10								
14.9	Dense, gray SILT			9	8 22 25	NP	12								

GENERAL NOTES				WATER LEVEL DATA	
Begin Drilling	08-10-2004	Complete Drilling	08-10-2004	While Drilling	DRY
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV	At Completion of Drilling	DRY
Driller	J&L	Logger	J. Kasnick	Time After Drilling	NA
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite upon completion			Depth to Water	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.					

**LEGEND**

NP NON-PLASTIC  
B BULGE FAILURE  
S SHEAR FAILURE  
P POCKET PENETROMETER

**TYLIN INTERNATIONAL**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
31st STREET to I-57  
BORING LOGS FOR HMLT'S  
5 PAB3 & 5 PAB1

S.N. DESIGNED BY: DJR  
SCALE: N.T.S. DRAWN BY: DJR  
DATE: OCTOBER 29, 2004 CHECKED BY: TO

10/15/2004 12:50:43 PM

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**BORING LOG 5PIJ3**  
WEI Job No.: 414-07-01  
Client: T. Y. LIN International  
Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
Location: From 95th Street to South of 69th Street

Datum: CCD  
Elevation: 6.21 ft  
North: 1849238.45 ft  
East: 1177448.83 ft  
Station: 1278+60  
Offset: 104' LT

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	N Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
5.5	8-inch thick, brown SILTY CLAY LOAM --TOPSOIL--			1	4 3 3	NP	7								
	Loose, brown SAND --FILL--														
3.2	Very stiff, gray SILTY CLAY			2	4 3 3	B	2.87	20				10	8 16 15	2.71	22
0.7	Stiff, gray CLAY			3	2 2 3	B	1.80	21	25.8	Hard, gray SILTY CLAY					
				4	2 2 3	B	1.39	20	28.8			11	28 34 45	4.50	9
4.3	Stiff to hard, gray SILTY CLAY			5	2 4 2	B	1.23	19		Boring terminated at 35.00 ft					
				6	2 4 5	B	3.94	15							
				7	9 14 13	S	4.26	12							
				8	5 7 13	B	6.56	13							
				9	6 13 13	S	5.00	11							

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-09-2004	Complete Drilling	08-09-2004	While Drilling	▽	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV	At Completion of Drilling	▽	DRY	
Driller	J&L	Logger	J. Kasnick	Time After Drilling	NA		
Drilling Method	3.25" ID. HSA; Boring backfilled with bentonite upon completion			Depth to Water	▽	NA	

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**BORING LOG 5PIJ2**  
WEI Job No.: 414-07-01  
Client: T. Y. LIN International  
Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
Location: From 95th Street to South of 69th Street

Datum: CCD  
Elevation: 8.63 ft  
North: 1849692.02 ft  
East: 1177411.52 ft  
Station: 1283+15  
Offset: 128' LT

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	N Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
	Stiff, black and gray CLAY LOAM --FILL--			1	5 5 5	NP	7					11	9 12 16	6.72	12
6.6	Loose to medium dense, fine SAND			2	7 4 5	NP	11					12	9 12 24	4.26	12
2.4	Stiff gray CLAY			3	2 3 4	B	1.97	19							
				4	1 2 3	B	1.56	19				13		4.43	11
				5	1 2 3	B	1.72	20	26.4	Boring terminated at 35.00 ft					
				6	1 2 3	B	1.72	18							
6.9	Stiff to hard, gray gravelly SILTY CLAY to SILTY CLAY LOAM			7	9 17 20	P	4.50	10							
				8	9 13 17	S	1.64	10							
				9	8 12 15	B	5.90	11							
				10	8 13 15	S	6.23	11							

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-25-2004	Complete Drilling	08-25-2004	While Drilling	▽	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 TMR	At Completion of Drilling	▽	DRY	
Driller	J&L	Logger	N. Davis	Time After Drilling	NA		
Drilling Method	3.25" ID. HSA; Boring backfilled with bentonite upon completion			Depth to Water	▽	NA	

**LEGEND**

NP NON-PLASTIC  
B BULGE FAILURE  
S SHEAR FAILURE  
P POCKET PENETROMETER

**TYLIN INTERNATIONAL**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
31st STREET to I-57  
**BORING LOGS FOR HMLT'S  
5 PIJ3 & 5 PIJ2**

S.N. DESIGNED BY: DJR  
SCALE: N.T.S. DRAWN BY: DJR  
DATE: OCTOBER 29, 2004 CHECKED BY: TD

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**BORING LOG 6RIJ1** Page 1 of 1

WEI Job No.: 414-07-01  
Client: T. Y. LIN International  
Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
Location: From 95th Street to South of 69th Street

Datum: CCD  
Elevation: 0.62 ft  
North: 1856009.81 ft  
East: 1177189.25 ft  
Station: 7136+48  
Offset: 60' LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	CU (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blows/6 in)	CU (tsf)	Moisture Content (%)
0.1	Brown SILTY CLAY LOAM --TOPSOIL-- Very stiff, brown SILTY CLAY --FILL--	0.1	1	9 6 7	2.62	14							
-2.4	Very stiff to hard, brown and gray SILTY CLAY	2.4	2	7 4 5	3.03	18	-28.4	Medium dense, gray GRAVELLY SANDY LOAM Medium dense, gray SILT	2.4	11	9 11 7	3.69	13
		5	3	2 4 5	2.54	17	-31.4	Medium dense, brown GRAVELLY SAND	5				
		10	4	4 8 11	4.51	17	-34.4		10	12	5 6 7	NP	24
-9.9	Medium dense, gray SILTY LOAM with silty clay interbeds	9.9	5	6 11 14	NP	16		Boring terminated at 35.00 ft					
-12.4	Very stiff to hard, gray SILTY CLAY	12.4	6	4 6 8	4.35	13							
		15	7	4 8 9	4.02	12							
		20	8	4 9 13	5.25	12							
		25	9	6 11 14	6.56	12							
		25	10	2 11 15	5.08	12							

<b>GENERAL NOTES</b>				<b>WATER LEVEL DATA</b>			
Begin Drilling	08-09-2004	Complete Drilling	08-09-2004	While Drilling	∇	29.75 ft	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV	At Completion of Drilling	∇	DRY	
Driller	J&L	Logger	J. Kasnick	Time After Drilling	NA		
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite upon completion			Depth to Water	∇	NA	

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**BORING LOG 6RKL1** Page 1 of 1

WEI Job No.: 414-07-01  
Client: T. Y. LIN International  
Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
Location: From 95th Street to South of 69th Street

Datum: CCD  
Elevation: 5.85 ft  
North: 1856430.42 ft  
East: 1177136.77 ft  
Station: 7132+34  
Offset: 38' RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	CU (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blows/6 in)	CU (tsf)	Moisture Content (%)
5.3	Black LOAM --TOPSOIL-- Medium dense, brown SANDY LOAM --FILL--	5.3	1	8 8 8	NP	10							
		11	11	6 11 13		4.10							
		13	12	4 8 11		4.76							
		14	13	3 9 10		3.69							
		14	14										
		14	15										
		14	16										
		14	17										
		14	18										
		14	19										
		14	20										
		14	21										
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		14	45										
		14	46										
		14	47										
		14	48										
		14	49										
		14	50										

<b>GENERAL NOTES</b>				<b>WATER LEVEL DATA</b>			
Begin Drilling	08-10-2004	Complete Drilling	08-10-2004	While Drilling	∇	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 TMR	At Completion of Drilling	∇	DRY	
Driller	J&L	Logger	Y. Shiu	Time After Drilling	NA		
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite upon completion			Depth to Water	∇	NA	

**TYLIN INTERNATIONAL**

**LEGEND**

NP	NON-PLASTIC
B	BULGE FAILURE
S	SHEAR FAILURE
P	POCKET PENETROMETER

<b>REVISIONS</b>		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 31st STREET to I-57 <b>BORING LOGS FOR HMLT'S          6 RIJ1 &amp; 6 RKL1</b>
NAME	DATE	
S.N.	DESIGNED BY: DJR	
SCALE: N.T.S.	DRAWN BY: DJR	
DATE: OCTOBER 29, 2004	CHECKED BY: TD	

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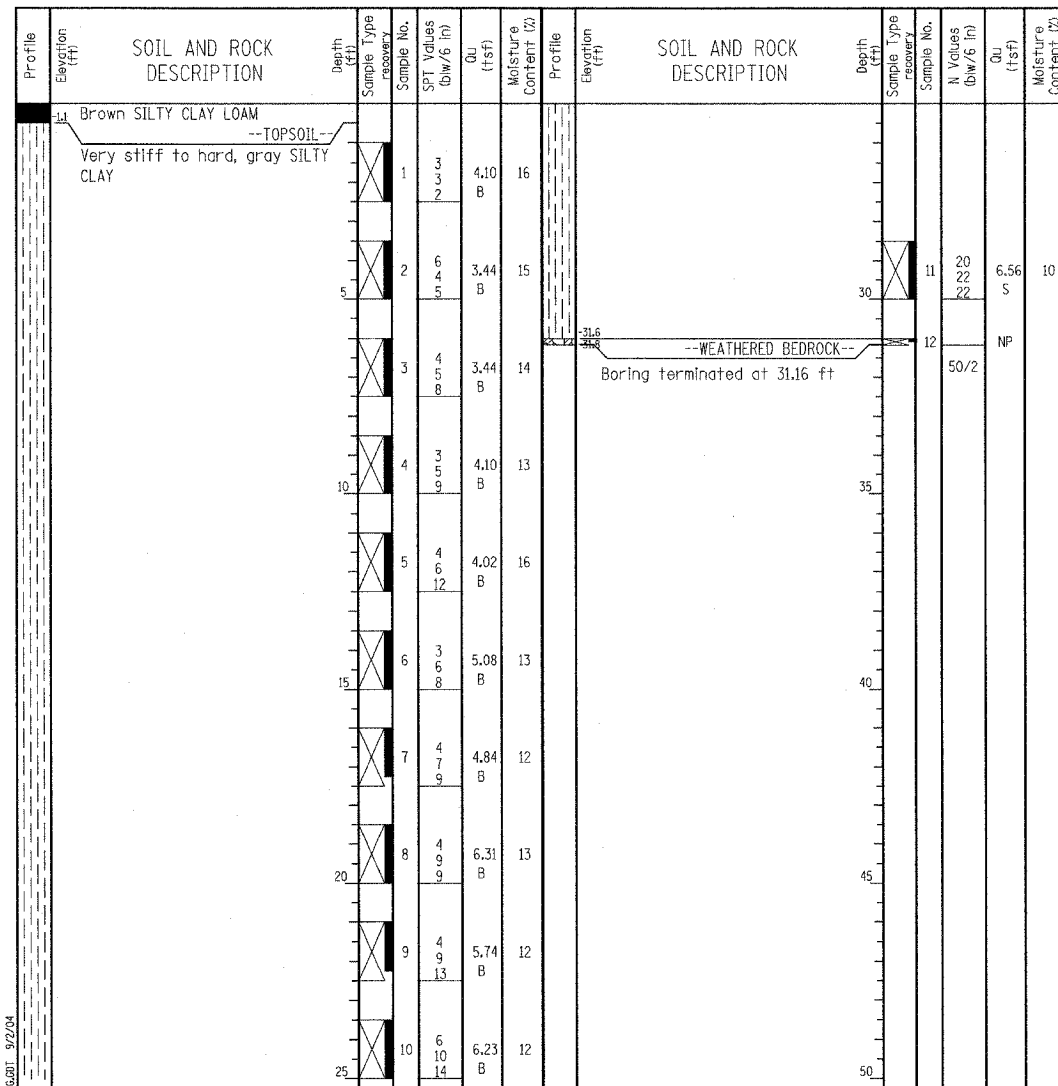


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**BORING LOG 6RCD1**  
 WEI Job No.: 414-07-01  
 Client: T. Y. LIN International  
 Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
 Location: From 95th Street to South of 69th Street

Datum: CCD  
 Elevation: -0.62 ft  
 North: ft  
 East: ft  
 Station: 1363+43  
 Offset: 111.5' LT

Page 1 of 1



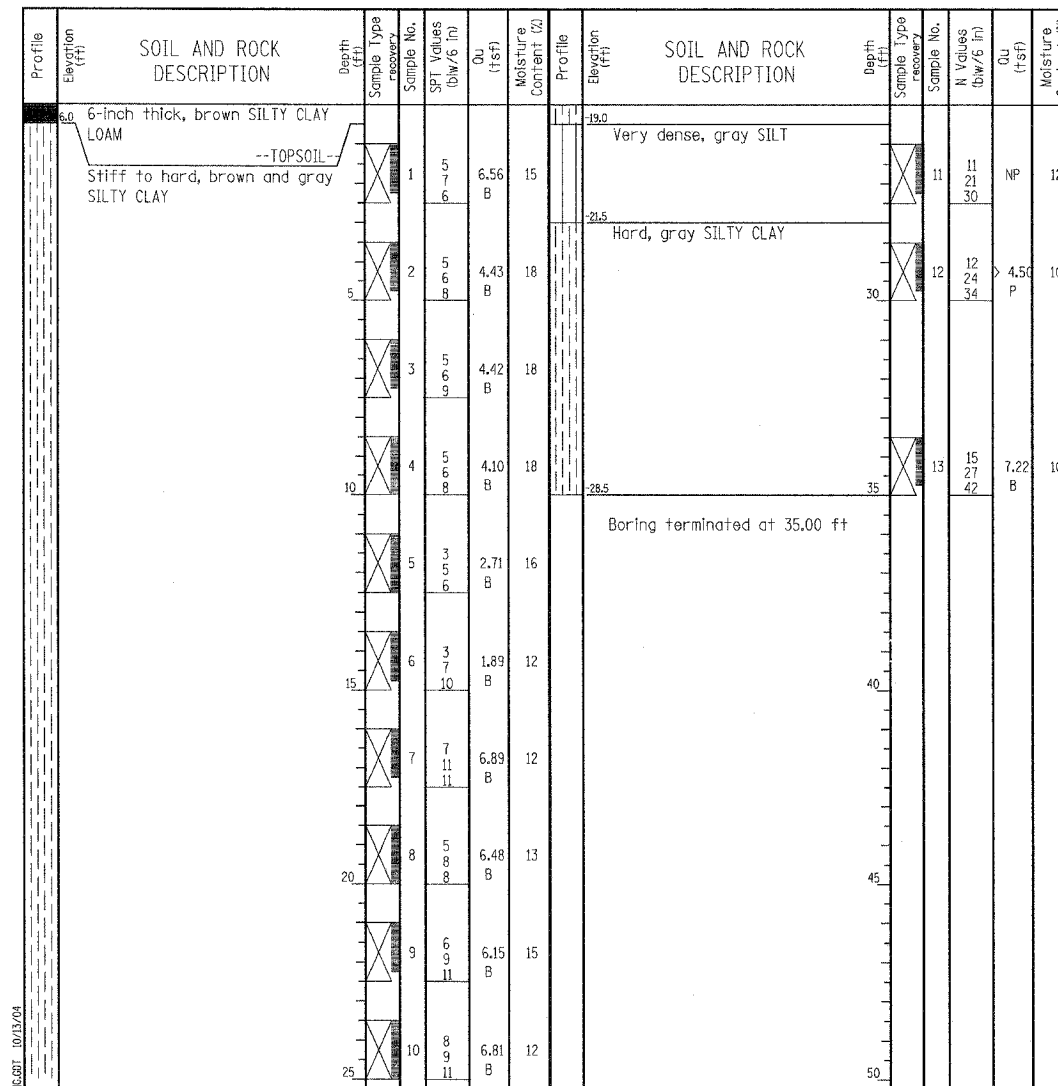
GENERAL NOTES				WATER LEVEL DATA	
Begin Drilling	08-09-2004	Complete Drilling	08-09-2004	While Drilling	∇ DRY
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV	At Completion of Drilling	∇ DRY
Driller	J&L	Logger	J. Kasnick	Time After Drilling	NA
Drilling Method	3.25" ID. HSA; Boring backfilled with bentonite upon completion				
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.					

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**BORING LOG 5MCD3**  
 WEI Job No.: 414-07-01  
 Client: T. Y. LIN International  
 Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
 Location: From 95th Street to South of 69th Street

Datum: CCD  
 Elevation: 6.46 ft  
 North: 1839043.03 ft  
 East: 1180490.89 ft  
 Station: 2003+82  
 Offset: 64' RT

Page 1 of 1



GENERAL NOTES				WATER LEVEL DATA	
Begin Drilling	08-11-2004	Complete Drilling	08-11-2004	While Drilling	∇ DRY
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV	At Completion of Drilling	∇ DRY
Driller	J&L	Logger	B. Fugiel	Time After Drilling	NA
Drilling Method	3.25" ID. HSA; Boring backfilled with bentonite upon completion				
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.					

**LEGEND**

NP	NON-PLASTIC
B	BULGE FAILURE
S	SHEAR FAILURE
P	POCKET PENETROMETER

**TYLIN INTERNATIONAL**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 31st STREET to I-57  
**BORING LOGS FOR HMLT'S  
 6 RCD1 & 5 MCD3**

S.N. DESIGNED BY: DJR  
 SCALE: N.T.S. DRAWN BY: DJR  
 DATE: OCTOBER 29, 2004 CHECKED BY: TD

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**BORING LOG 5MCD2**

Page 1 of 1

WEI Job No.: 414-07-01  
Client: T. Y. LIN International  
Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
Location: From 95th Street to South of 69th Street

Datum: CCD  
Elevation: 5.73 ft  
North: 1839027.61 ft  
East: 1180020.65 ft  
Station: 2008+52  
Offset: 63' RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
5.2	6-inch thick, brown SILTY CLAY LOAM --TOPSOIL-- Very stiff to hard, SILTY CLAY	5	1	5	8	4.92	13	19.8	Dense, gray LOAM	5	11	17	20	NP	8
		10	2	6	8	4.10	15	22.3	Very dense, gray SILT	10	12	13	43	NP	10
		15	3	4	5	3.69	18	26.3	Hard, gray SILTY CLAY	15	13	17	24	8.61	10
		20	4	6	6	4.43	13	29.3		20	13	24	30	B	
		25	5	6	7	4.51	13		Boring terminated at 35.00 ft	25	13	24	30	B	
		30	6	4	5	6.15	13			30	13	24	30	B	
		35	7	6	6	5.16	12			35	13	24	30	B	
		40	8	5	8	4.76	11			40	13	24	30	B	
		45	9	10	13	9.02	11			45	13	24	30	B	
		50	10	9	11	7.95	11			50	13	24	30	B	

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-11-2004	Complete Drilling	08-11-2004	While Drilling	▽	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV	At Completion of Drilling	▽	DRY	
Driller	J&L	Logger	B. Fugiel	Time After Drilling	NA		
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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**BORING LOG 6MCD1**

Page 1 of 1

WEI Job No.: 414-07-01  
Client: T. Y. LIN International  
Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
Location: From 95th Street to South of 69th Street

Datum: CCD  
Elevation: 5.32 ft  
North: 1839042.28 ft  
East: 1179535.04 ft  
Station: 2013+50  
Offset: 66' RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
4.8	6-inch thick, brown SILTY CLAY LOAM --TOPSOIL-- Stiff to hard, brown and gray SILTY CLAY	4	1	4	4	4.35	17			4	11	14	24	7.05	10
		8	2	4	5	3.44	18			8	12	16	32	7.71	10
		12	3	3	3	4.26	14			12	13	16	34	8.12	10
		16	4	4	6	4.84	13			16	13	16	34	8.12	10
		20	5	4	5	1.80	24			20	13	16	34	8.12	10
		24	6	6	11	NP	14			24	13	16	34	8.12	10
		28	7	11	22	4.50	11			28	13	16	34	8.12	10
		32	8	20	34	NP	14			32	13	16	34	8.12	10
		36	9	14	30	NP	18			36	13	16	34	8.12	10
		40	10	15	24	6.81	11			40	13	16	34	8.12	10

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-11-2004	Complete Drilling	08-11-2004	While Drilling	▽	13.75 ft	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV	At Completion of Drilling	▽	DRY	
Driller	J&L	Logger	B. Fugiel	Time After Drilling	NA		
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

**LEGEND**

NP	NON-PLASTIC
B	BULGE FAILURE
S	SHEAR FAILURE
P	POCKET PENETROMETER

**TYLIN INTERNATIONAL**

SHEET 22 OF 30

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
31st STREET to I-57  
**BORING LOGS FOR HMLT'S  
5 MCD2 & 6 MCD1**

S.N. DESIGNED BY: DJR  
SCALE: N.T.S. DRAWN BY: DJR  
DATE: OCTOBER 29, 2004 CHECKED BY: TD

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**BORING LOG 6MIJ1**  
 WEI Job No.: 414-07-01  
 Client: T. Y. LIN International  
 Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
 Location: From 95th Street to South of 69th Street

Datum: CCD  
 Elevation: 0.95 ft  
 North: 1839171.99 ft  
 East: 1179070.99 ft  
 Station: 2018+50  
 Offset: 66' RT

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
0.5	6-inch thick, brown CLAY LOAM --TOPSOIL--							CLAY					
	Very stiff to hard, brown CLAY, with silt interbeds	1	4	6	4.18	22			11	15	8.20	11	
		2	5	6	2.62	24			30	25	10.25	11	
-4.5	Medium dense, gray SILT	5	5	8	NP	19							
-7.8	Stiff, gray SILTY CLAY	10	4	5	1.72	22			35	30	5.66	10	
-9.5	Hard, gray SILTY CLAY						-34.0	Boring terminated at 35.00 ft					
-12.8	Dense, gray, medium SAND	15	4	16	7.05	13							
-14.5	Hard, gray SILTY CLAY												
	Medium dense to dense, gray SILT to gravelly SILTY LOAM, moist	20	7	10	NP	22							
		25	10	19	NP	12							
-23.5	Hard, gray, gravelly SILTY												

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-12-2004	Complete Drilling	08-12-2004	While Drilling	▽	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV	At Completion of Drilling	▽	DRY	
Driller	J&L	Logger	Y. Shiu	Time After Drilling	NA		
Drilling Method	3.25" ID. HSA; Boring backfilled with bentonite upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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 Fax: 630 953-9938

**BORING LOG 6MIJ2**  
 WEI Job No.: 414-07-01  
 Client: T. Y. LIN International  
 Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
 Location: From 95th Street to South of 69th Street

Datum: CCD  
 Elevation: -3.46 ft  
 North: 1839380.73 ft  
 East: 1178701.12 ft  
 Station: 2022+91  
 Offset: 64' RT

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
-4.0	6-inch thick, brown CLAY LOAM --TOPSOIL--												
	Medium dense, brown and gray SILTY LOAM	1	6	6	NP	19			11	18	5.99	10	
		2	4	7	NP	15			12	24	8.28	10	
-9.0	Very stiff to hard, gray SILTY CLAY	5	5	4	4.43	14	-33.5	--AUGER REFUSAL-- Boring terminated at 30.00 ft					
		10	4	5	2.62	15							
-14.8	Very stiff, gray CLAY	15	1	4	2.30	17							
-16.5	Stiff to hard, gray SILTY CLAY	15	4	9	1.80	13							
		20	6	15	7.46	7							
-22.5	Dense, gray SILT	20	9	16	7.38	11							
-24.0	Hard, gray gravelly SILTY CLAY, with interbeds of silt	25	13	20	8.45	10							
		25	13	21	8.53	11							

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-12-2004	Complete Drilling	08-12-2004	While Drilling	▽	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV	At Completion of Drilling	▽	DRY	
Driller	J&L	Logger	Y. Shiu	Time After Drilling	NA		
Drilling Method	3.25" ID. HSA; Boring backfilled with bentonite upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

TYLIN INTERNATIONAL

**LEGEND**

NP	NON-PLASTIC
B	BULGE FAILURE
S	SHEAR FAILURE
P	POCKET PENETROMETER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 31st STREET to I-57  
 BORING LOGS FOR HMLT'S  
 6 MIJ1 & 6 MIJ2

S.N. DESIGNED BY: DJR  
 SCALE: N.T.S. DRAWN BY: DJR  
 DATE: OCTOBER 29, 2004 CHECKED BY: TD

10/15/2004 12:50:50 PM

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Lombard, IL 60148  
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Fax: 630 953-9938

**BORING LOG 6MIJ3**

WEI Job No.: 414-07-01

Datum: CCD  
Elevation: -5.03 ft  
North: ft  
East: ft  
Station: 2027+51  
Offset: 64' RT

Client: T. Y. LIN International  
Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
Location: From 95th Street to South of 69th Street

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
-5.5	6-inch thick, black CLAY LOAM --TOPSOIL-- Stiff to hard, gray SILTY CLAY	1	7 12 10	1.15 B	13	30.5	30.5	Dense, gray SAND Stiff, gray SILTY CLAY, with gravel	11	11 16 17	2.62 B	14	
		2	8 10 8	3.53 B	12				12	11 15 14	6.56 B	14	
		3	8 9 11	4.50 P	11								
		4	5 5 5	2.21 B	13	-38.3	-38.3	Dense, gray, coarse GRAVELLY SAND Stiff, gray SILTY CLAY, with gravel	13	25 20 19	1.97 B	12	
		5	6 5 6	3.12 B	15	-40.0	-40.0	Boring terminated at 35.00 ft					
		6	5 4 6	3.94 B	15								
		7	5 4 4	2.21 B	16								
		8	2 1 1	1.07 B	18								
		9	4 6 6	4.10 B	13								
		10	16 17 14	3.85 B	12								

GENERAL NOTES				WATER LEVEL DATA		
Begin Drilling	08-13-2004	Complete Drilling	08-13-2004	While Drilling	25.50 ft	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV	At Completion of Drilling	DRY	
Driller	J&L	Logger	Y. Shiu	Time After Drilling	NA	
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite upon completion				Depth to Water	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.						

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**BORING LOG 5MAB1**

WEI Job No.: 414-07-01

Datum: CCD  
Elevation: 8.67 ft  
North: 1840093.66 ft  
East: 1178147.09 ft  
Station: 2032+41  
Offset: 87' RT

Client: T. Y. LIN International  
Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
Location: From 95th Street to South of 69th Street

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	N Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
-8.2	6-inch thick, black CLAY LOAM --TOPSOIL-- Very stiff, brown and gray SILTY CLAY	1	5 4 4	3.77 B	16	-16.8	-16.8	Dense to very dense, gray SILT	11	28 32 42	NP	18	
		2	3 4 3	2.95 B	18				12	22 24 19	NP	15	
		3	6 8 8	NP	17								
		4	3 8 9	NP	13				13	6 10 17	4.67 B	18	
		5	7 10 12	7.54 B	12								
		6	3 5 5	4.35 B	13								
		7	3 5 6	3.22 B	17								
		8	2 7 7	3.85 B	18								
		9	5 8 9	7.71 B	12								
		10	14 24 18	9.18 S	12								

GENERAL NOTES				WATER LEVEL DATA		
Begin Drilling	08-12-2004	Complete Drilling	08-13-2004	While Drilling	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV	At Completion of Drilling	DRY	
Driller	J&L	Logger	Y. Shiu	Time After Drilling	NA	
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite upon completion				Depth to Water	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.						

**TYLIN INTERNATIONAL**

**LEGEND**

NP NON-PLASTIC  
B BULGE FAILURE  
S SHEAR FAILURE  
P POCKET PENETROMETER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
31st STREET to I-57  
BORING LOGS FOR HMLT'S  
6 MIJ3 & 5 MAB1

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USE BORING FOR HMLT 6 OMN4

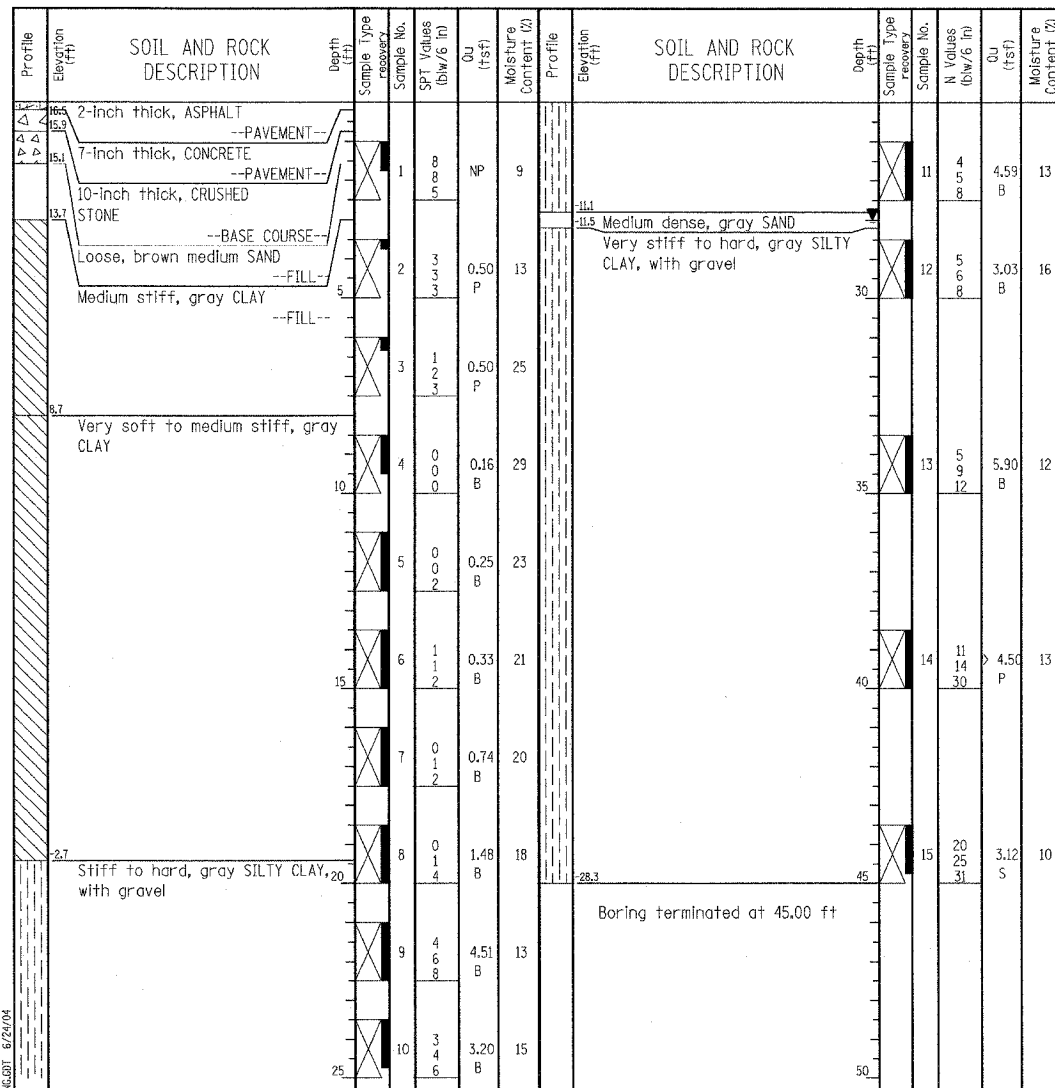
**Wang Engineering, INC.**  
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 Lombard, IL 60148  
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**BORING LOG SB 01-08** Page 1 of 1

WEI Job No.: 414-07-01

Datum: CDD  
 Elevation: 16.66 ft  
 North: 1842446.60 ft  
 East: 1177934.42 ft  
 Station: 2210+76.0  
 Offset: 125.849' RT

Client: T. Y. LIN International  
 Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
 Location: From 95th Street to South of 69th Street



GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	01-16-2004	Complete Drilling	01-16-2004	While Drilling	∇	28.00 ft	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 TMR	At Completion of Drilling	∇	28.00 ft	
Driller	J&B	Logger	H. Suhail	Time After Drilling	NA		
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite upon completion	Checked by	N. Davis	Depth to Water	∇	NA	

**LEGEND**

NP	NON-PLASTIC
B	BULGE FAILURE
S	SHEAR FAILURE
P	POCKET PENETROMETER

TYLIN INTERNATIONAL

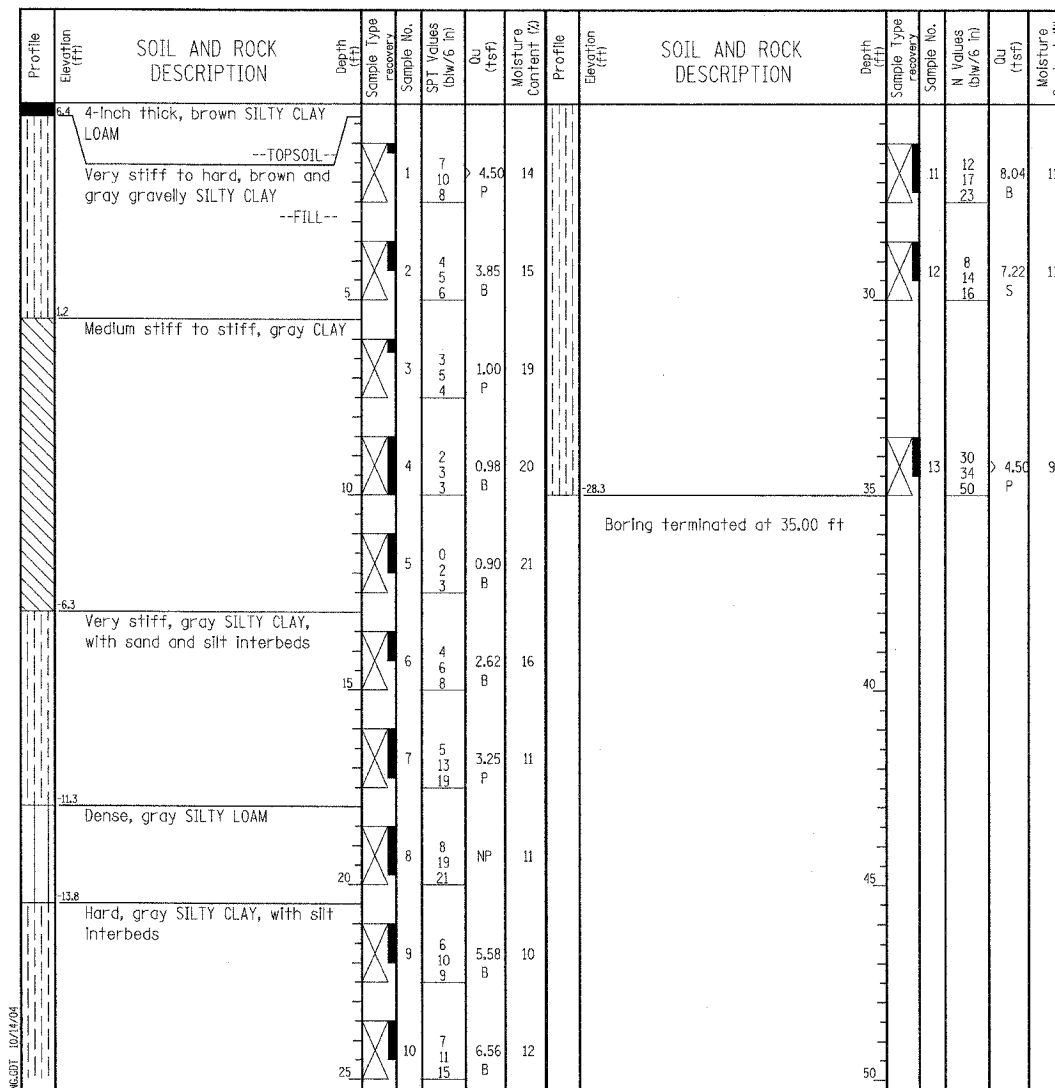
**Wang Engineering, INC.**  
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 Lombard, IL 60148  
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**BORING LOG 5PEF3** Page 1 of 1

WEI Job No.: 414-07-01

Datum: CDD  
 Elevation: 6.75 ft  
 North: 1848802.89 ft  
 East: 1177722.40 ft  
 Station: 8711+40  
 Offset: 17' RT

Client: T. Y. LIN International  
 Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
 Location: From 95th Street to South of 69th Street



GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-16-2004	Complete Drilling	08-16-2004	While Drilling	∇	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV	At Completion of Drilling	∇	DRY	
Driller	J&L	Logger	J. Kasnick	Time After Drilling	NA		
Drilling Method	3.25" ID HSA; Boring backfilled with bentonite upon completion	Checked by	N. Davis	Depth to Water	∇	NA	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 31st STREET to I-57

**BORING LOGS FOR HMLT'S  
 6 OMN4 & 5 PEF3**

S.N. DESIGNED BY: DJR  
 SCALE: N.T.S. DRAWN BY: DJR  
 DATE: OCTOBER 29, 2004 CHECKED BY: TD

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**BORING LOG 5RMN3** Page 1 of 1

WEI Job No.: 414-07-01  
 Client: T. Y. LIN International  
 Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
 Location: From 95th Street to South of 69th Street

Datum: CCD  
 Elevation: 3.92 ft  
 North: ft  
 East: ft  
 Station: 2338+68  
 Offset: 79' RT

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**BORING LOG 6RMN2** Page 1 of 1

WEI Job No.: 414-07-01  
 Client: T. Y. LIN International  
 Project: Dan Ryan Improvements; IDOT No. D-91-421-01  
 Location: From 95th Street to South of 69th Street

Datum: CCD  
 Elevation: -4.56 ft  
 North: 1855595.71 ft  
 East: 1177465.76 ft  
 Station: 8400+60  
 Offset: 69' LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	N Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
3.3	7-inch thick, ASPHALT	0.0						3.3		0.0					
2.3	5-inch thick, CRUSHED STONE	0.0						2.3		0.0					
0.9	Loose, brown and black SAND	0.0						0.9		0.0					
-0.4	Very loose, black SILTY LOAM	0.0						-0.4		0.0					
-1.6	Very loose, gray SAND	0.0						-1.6		0.0					
-1.6	Stiff to very stiff, gray SILTY CLAY	0.0						-1.6		0.0					
		10								10					
		15								15					
		20								20					
		25								25					
		30								30					
		35								35					
		40								40					
		45								45					
		50								50					

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	N Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
4.9	4-inch thick, brown SILTY CLAY LOAM	0.0						4.9		0.0					
3.6	Hard, brown SILTY CLAY	0.0						3.6		0.0					
2.6	Hard, brown and gray SILTY CLAY	0.0						2.6		0.0					
		5								5					
		10								10					
		15								15					
		20								20					
		25								25					
		30								30					
		35								35					
		40								40					
		45								45					
		50								50					

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-23-2004	Complete Drilling	08-23-2004	While Drilling	▽	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 TMR	At Completion of Drilling	▽	DRY	
Driller	J&L	Logger	J. Kasnick	Time After Drilling	NA		
Drilling Method	3.25" ID. HSA; Boring backfilled with bentonite upon completion			Depth to Water	▽	NA	

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	08-17-2004	Complete Drilling	08-17-2004	While Drilling	▽	29.30 ft	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 TMR	At Completion of Drilling	▽	DRY	
Driller	J&L	Logger	J. Kasnick	Time After Drilling	NA		
Drilling Method	3.25" ID. HSA; Boring backfilled with bentonite upon completion			Depth to Water	▽	NA	

**LEGEND**

NP NON-PLASTIC  
 B BULGE FAILURE  
 S SHEAR FAILURE  
 P POCKET PENETROMETER

**TYLIN INTERNATIONAL**

REVISIONS	
NAME	DATE

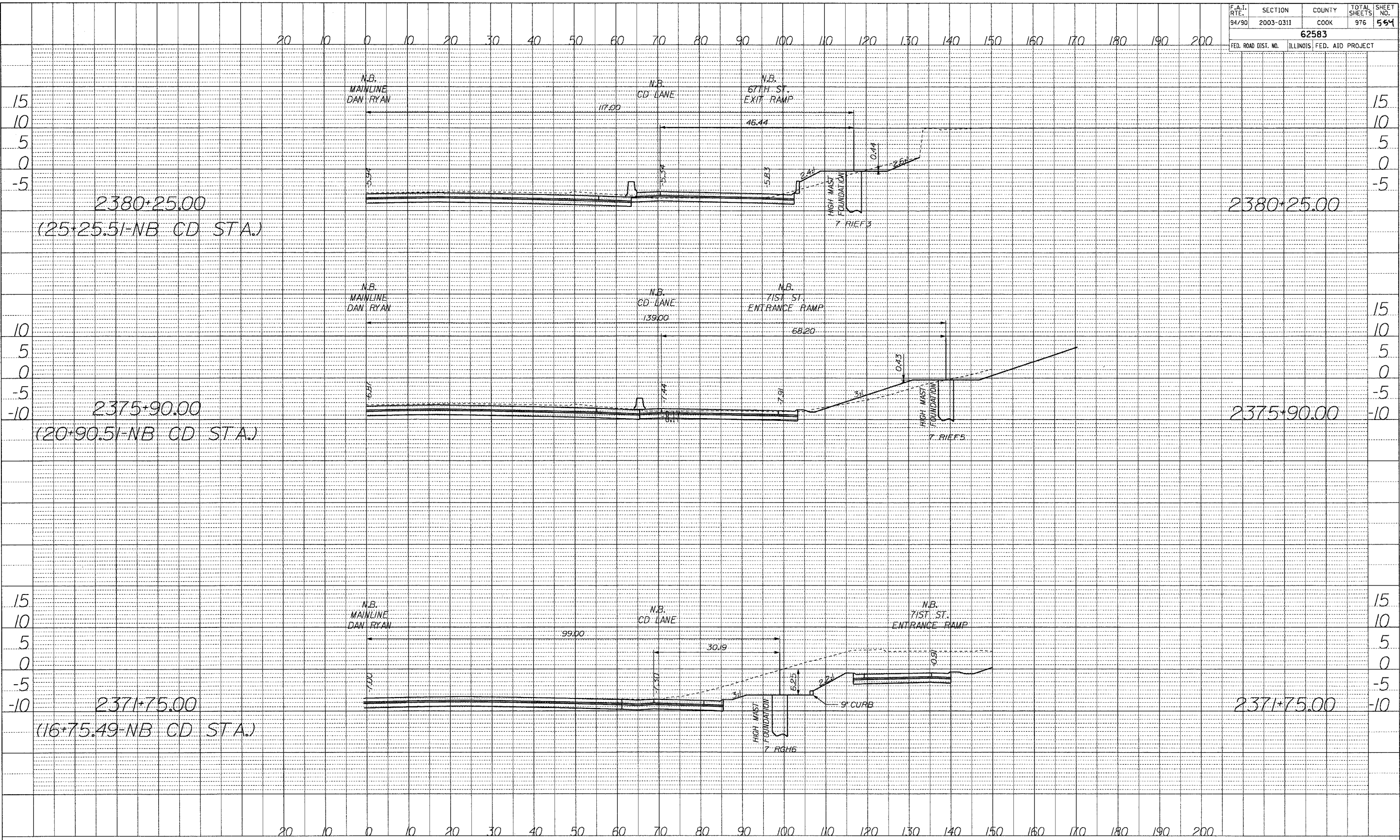
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 31st STREET to I-57  
 BORING LOGS FOR HMLT'S  
 5 RMN3 & 6 RMN2

S.N. DESIGNED BY: DJR  
 SCALE: N.T.S. DRAWN BY: DJR  
 DATE: OCTOBER 29, 2004 CHECKED BY: TD





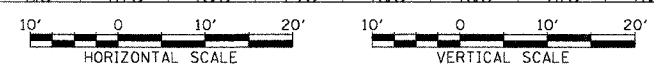
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94/90	2003-0311	COOK	976	554
62583				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



PROFILE	SURVEYED	DATE
NOTE BOOK	CHECKED	
NO.	BY	
	STRUCTURE	NOTATION
	NO.	

**Edwards and Kelcey**

ONE NORTH FRANKLIN  
CHICAGO, IL 60606  
PHONE: (312) 251-3000  
FAX: (312) 251-3015  
WEB: WWW.EKCORP.COM

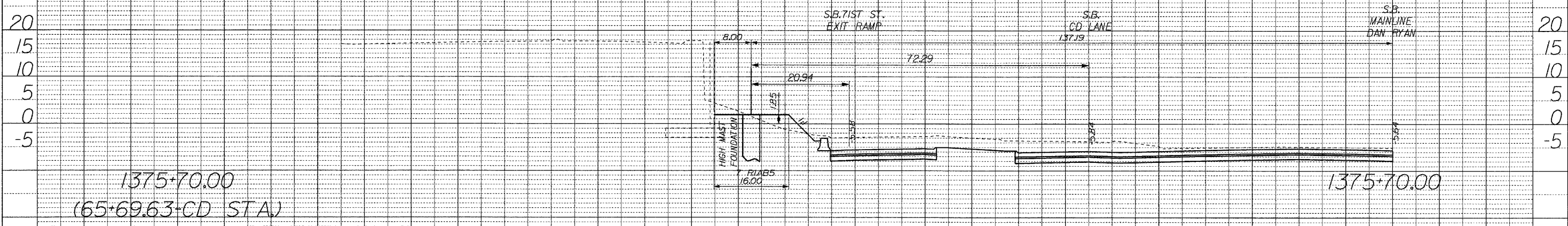


HIGH MAST LIGHTING

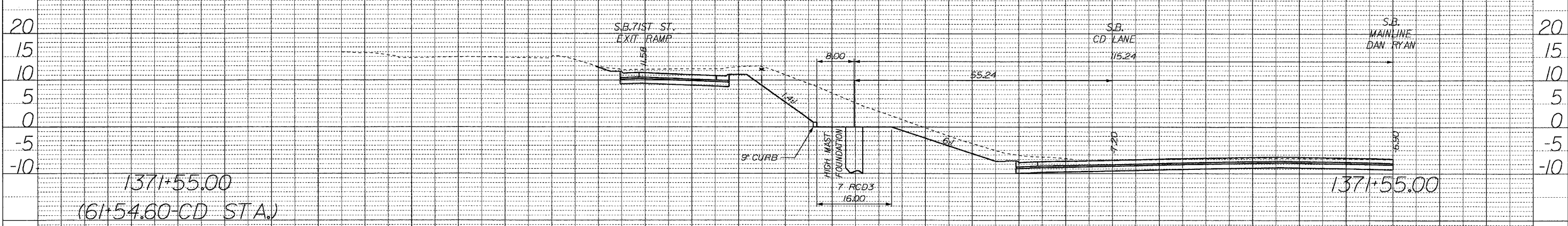


F.A.I. RTE. 94/90	SECTION 2003-0311	COUNTY COOK	TOTAL SHEETS 976	SHEET NO. 556
62583				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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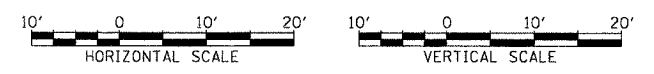
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(65+69.63-CD STA.)



1371+55.00  
(61+54.60-CD STA.)

270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10

**Edwards AND Kelcey**  
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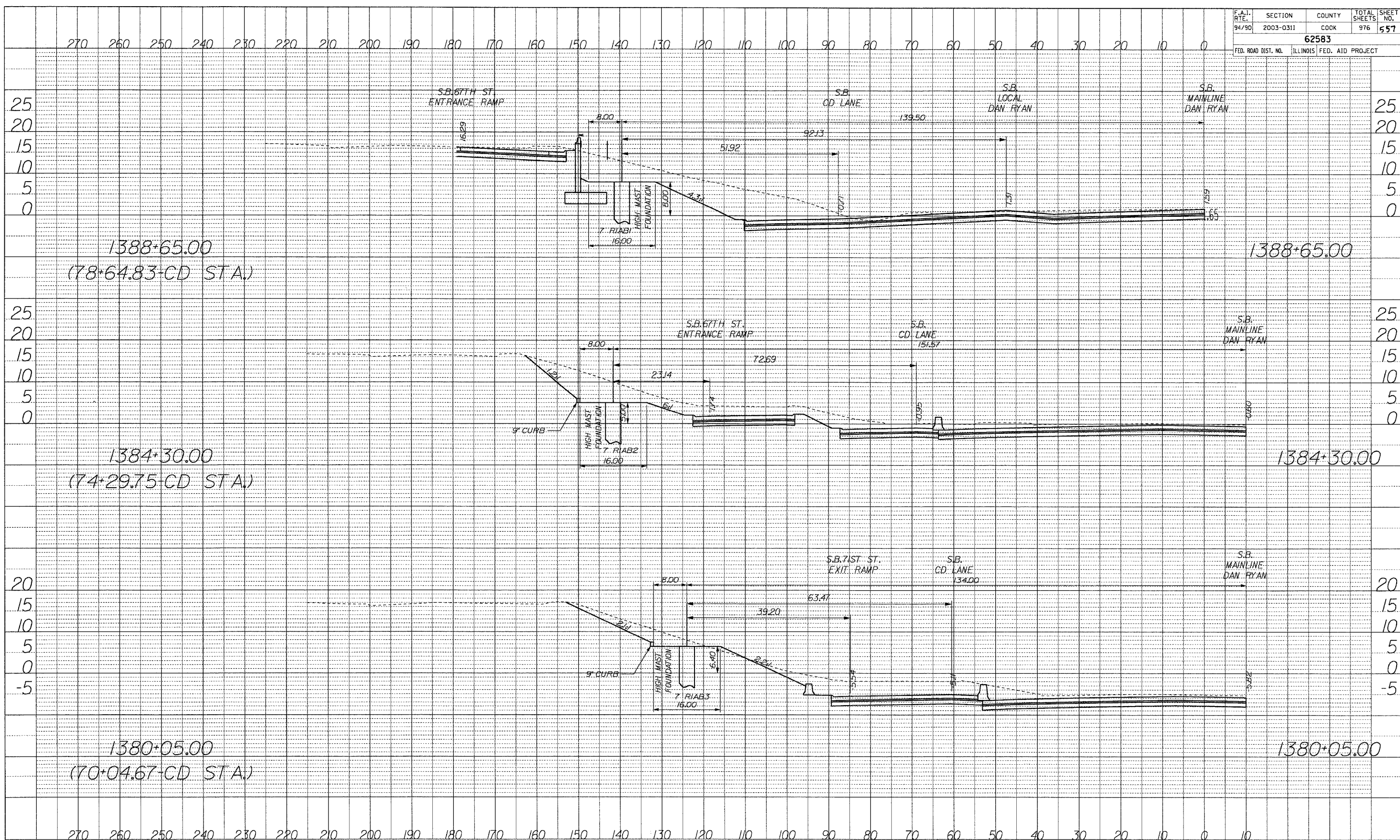
HIGH MAST LIGHTING

DATE	
BY	
PROFILE	REVIEWED
NOTE BOOK	PLOTTED
NO.	DATE
	BY
	DATE
	BY
	DATE

MAP 404657-1-10-04-01



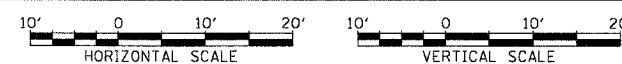
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94/90	2003-0311	COOK	976	557
62583				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 PROFILE SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 NOTE BOOK NO.: \_\_\_\_\_  
 STRUCTURE ROTARY CHRD

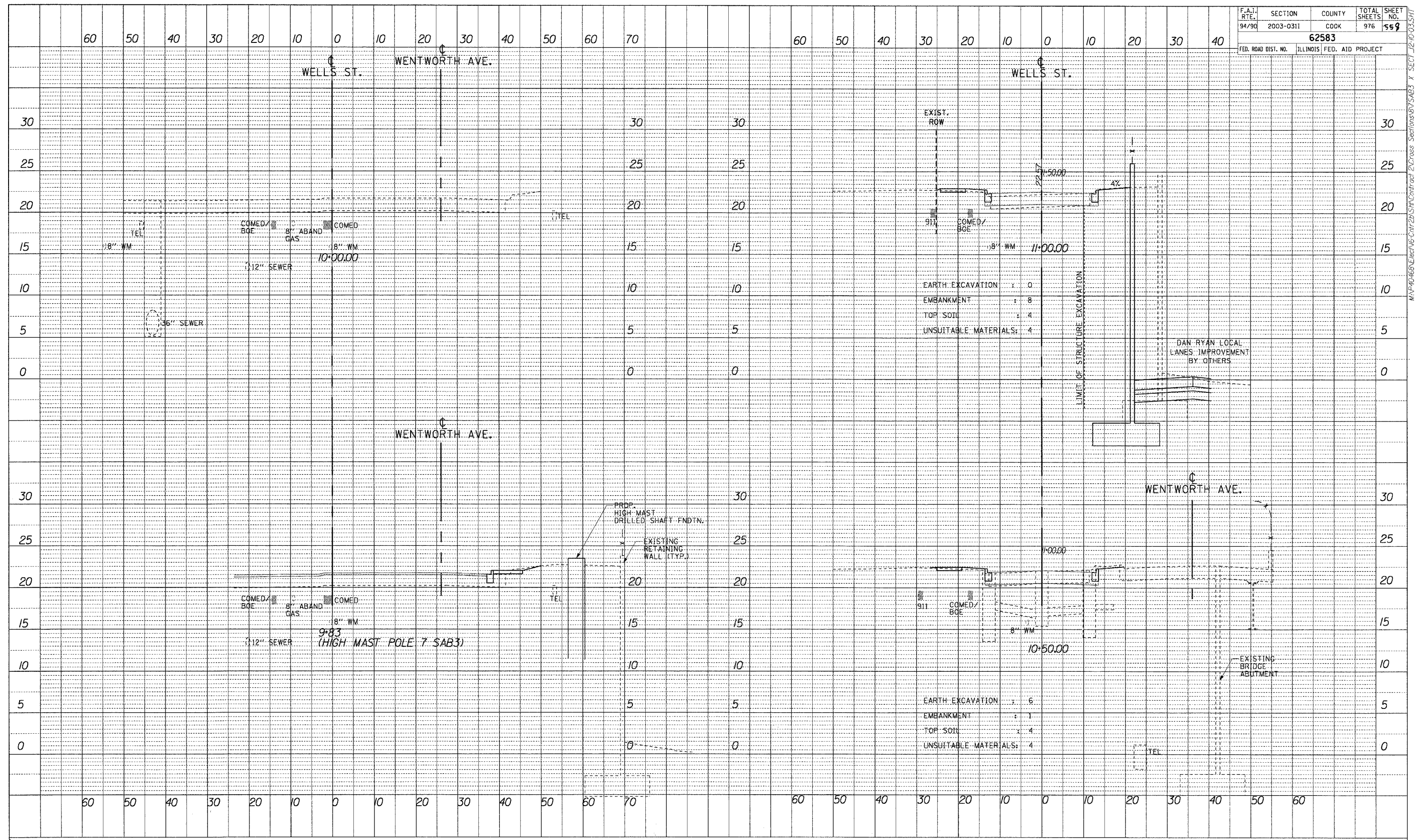
**Edwards  
AND Kelcey**

ONE NORTH FRANKLIN  
 CHICAGO, IL 60606  
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 FAX: (312) 251-3015  
 WEB: WWW.EACKORP.COM



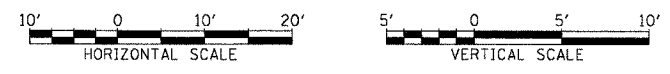
HIGH MAST LIGHTING

M:\P40466\Electrical\23\SMA\Contract\2\Cross Sections\Light pole SB Sheet to CTE 10-04.dgn



DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 PROFILE SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 STRUCTURE NOTATION: \_\_\_\_\_

NOTE: ALL END AREAS ARE IN SQUARE FEET.



S. WELLS ST.  
 9+83 STA. 11+00

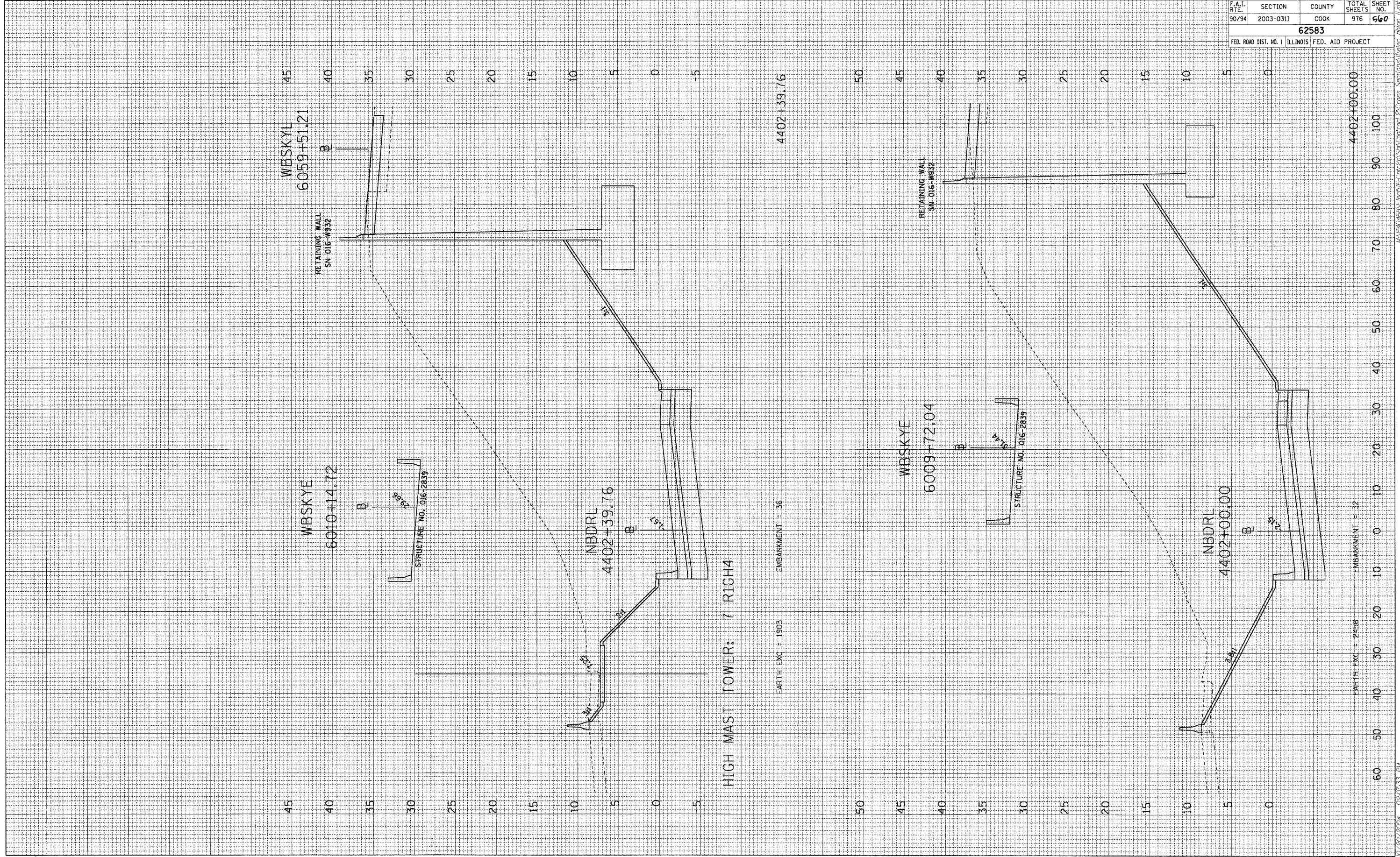
MAP 40468 Elect 16-Cat 2-D-SM Contract 2-Cross Sections SAB3 X SECT 12-10-03.SHT



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	DATE		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	DATE		
NO.	AREAS CHECKED		

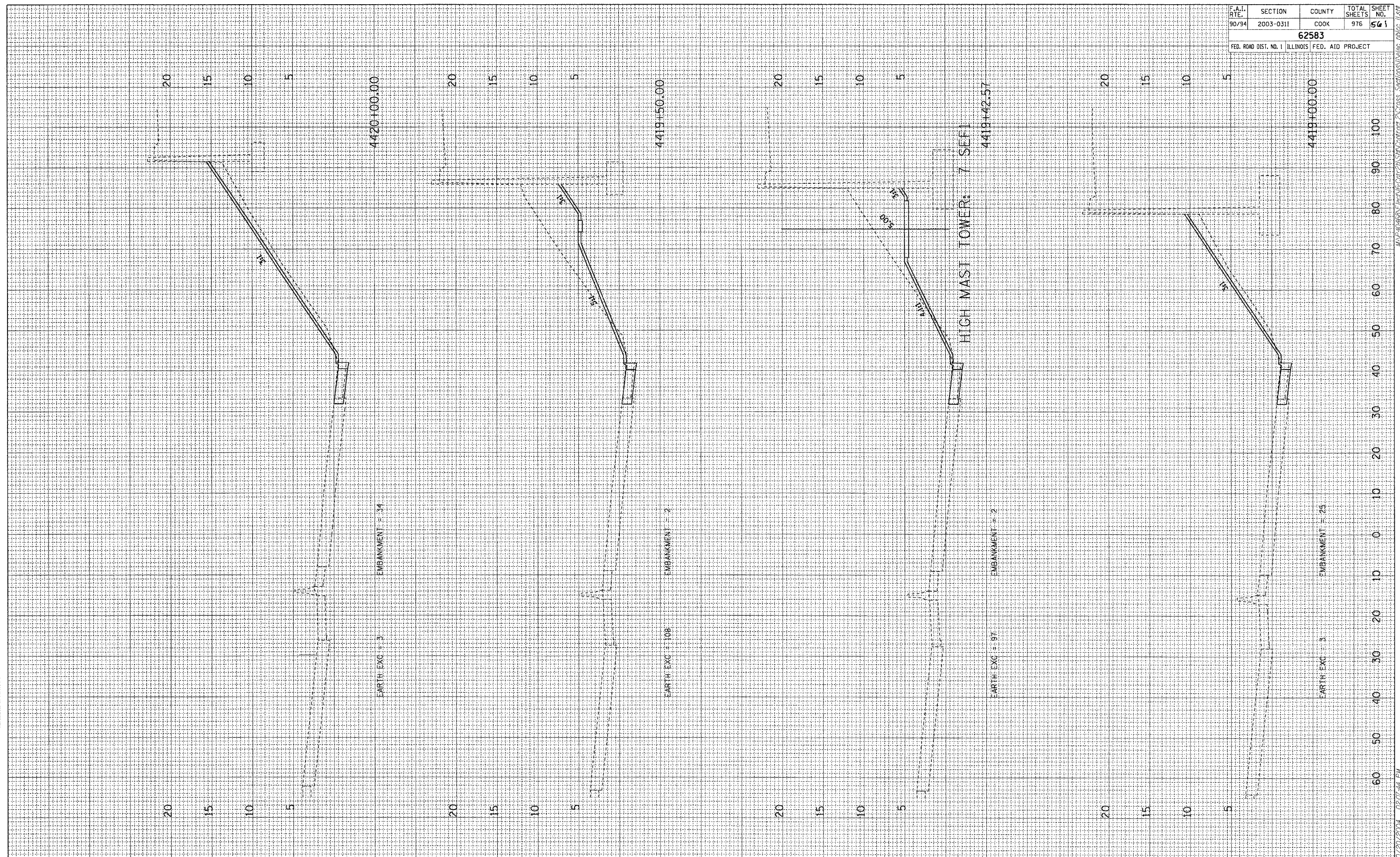
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90/94	2003-0311	COOK	976	660
62583				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>62583</b>				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



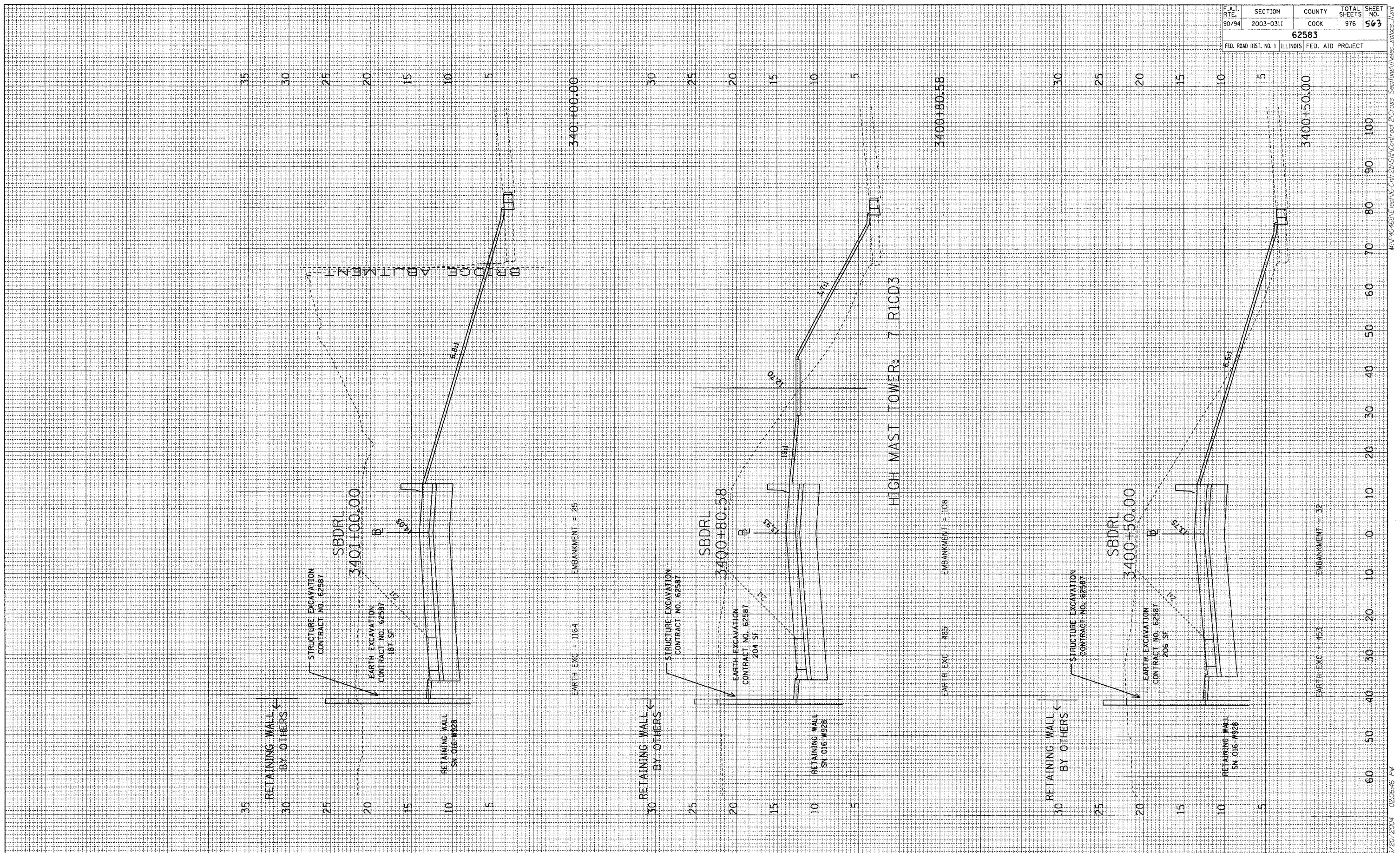
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FINAL SURVEY BY DATE  
 SURVEYED BY  
 TEMPLATE NO.  
 NOTE BOOK NO.  
 AREAS CHECKED

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

F.A.I. RTE. 90/94	SECTION 2003-0311	COUNTY COOK	TOTAL SHEETS 976	SHEET NO. 563
62583				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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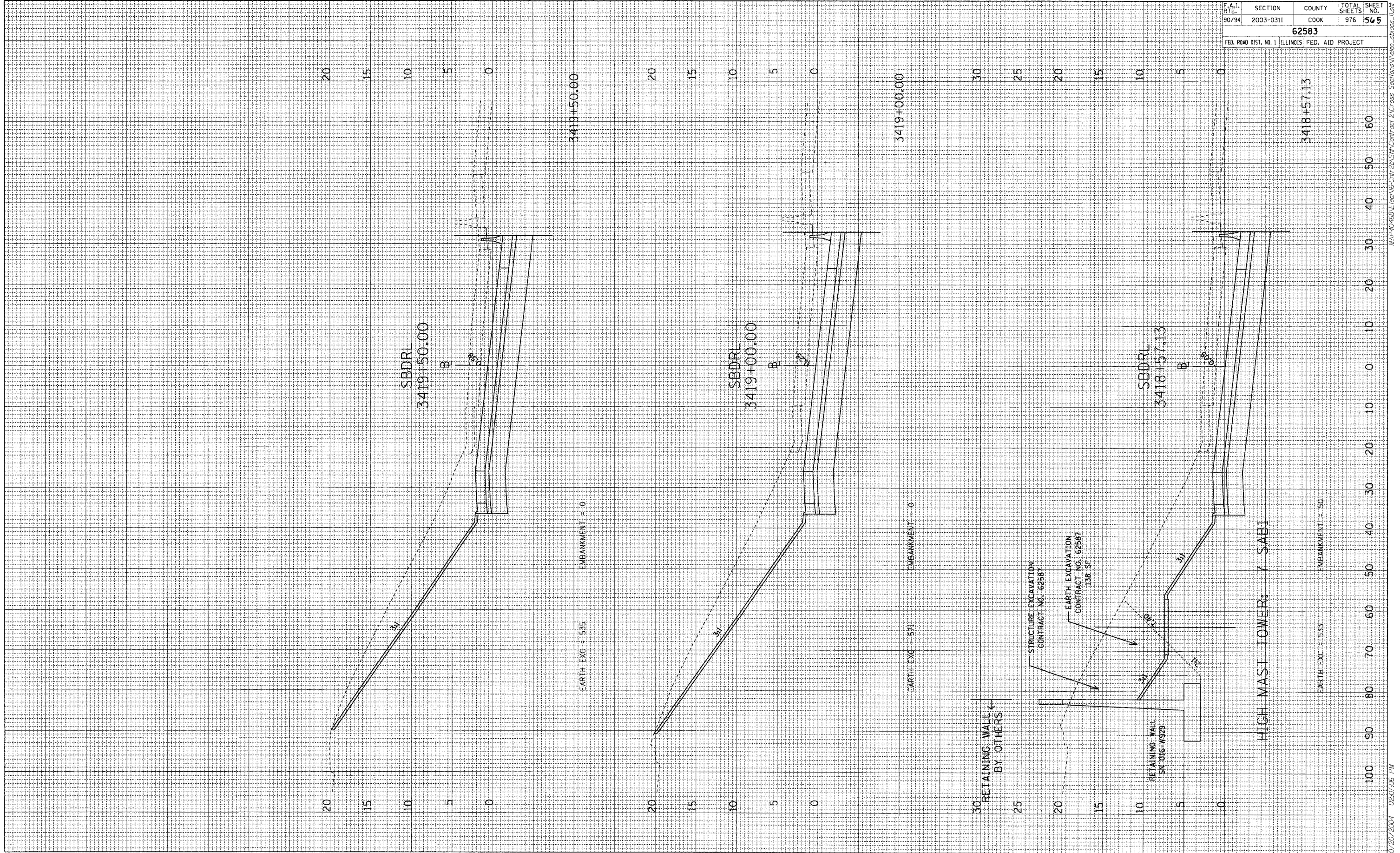




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 NOTE BOOK NO. \_\_\_\_\_  
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 NOTE BOOK NO. \_\_\_\_\_  
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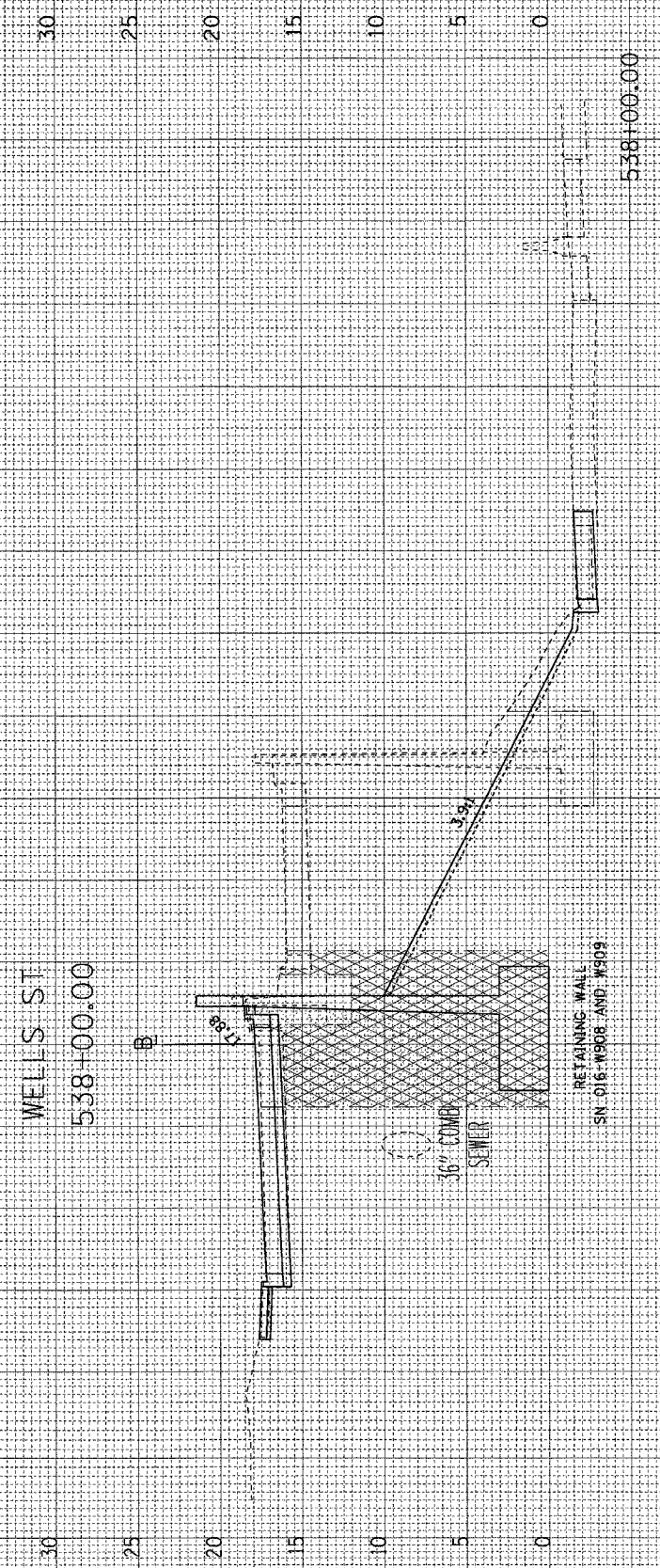
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<b>62583</b>				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



ORIGINAL SURVEY PLOTTED DATE BY  
 NOTE BOOK NO. AREAS CHECKED

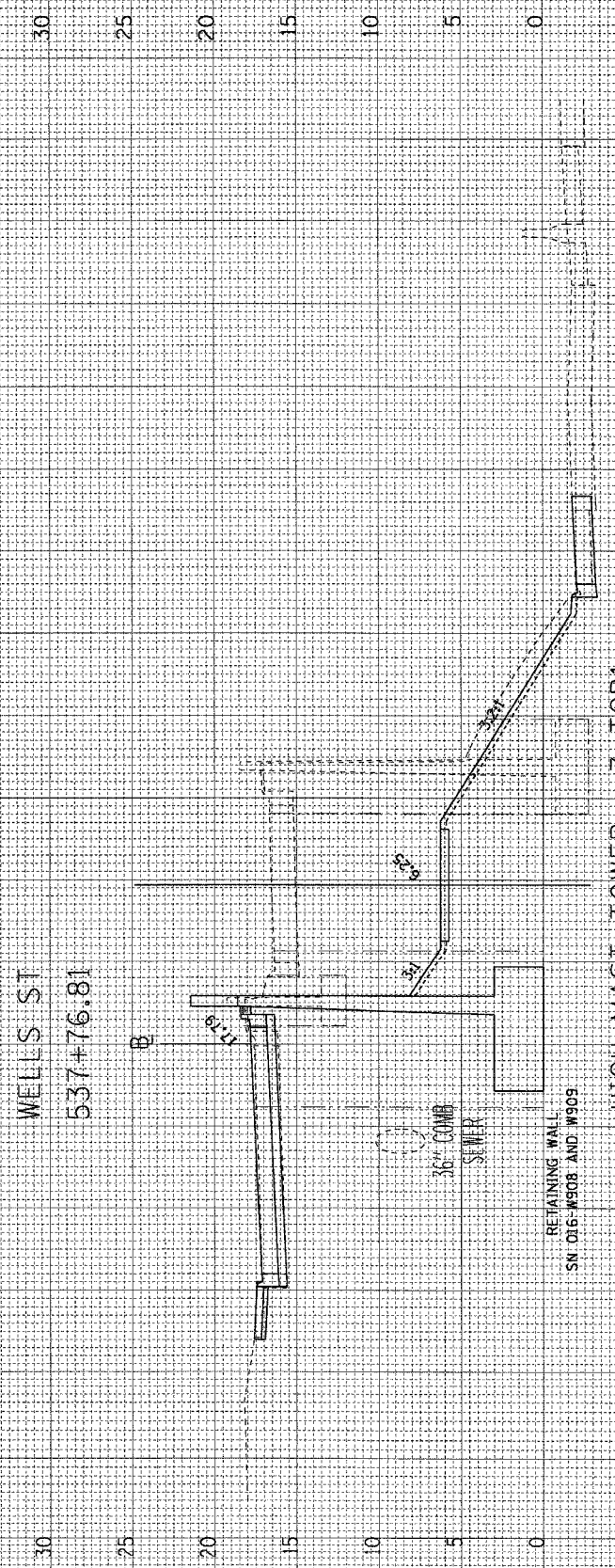
FINAL SURVEY SURVEYED DATE BY  
 NOTE BOOK NO. AREAS CHECKED

F.A.I. RTE. 90/94	SECTION 2003-0311	COUNTY COOK	TOTAL SHEETS 976	SHEET NO. 566
62583				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

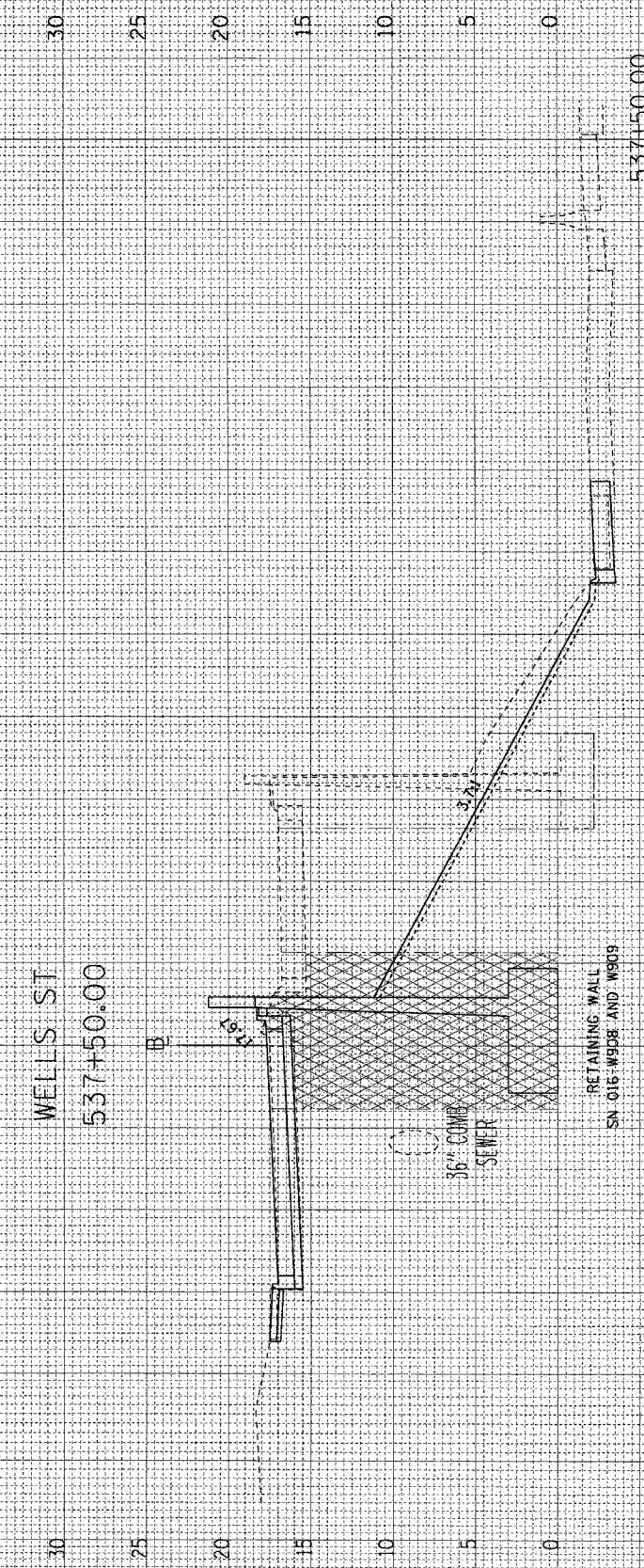


EARTH EXC = 173 EMBANKMENT = 99

STR EXC = 279 PGE = 163



HIGH MAST TOWER: 7 TCD1



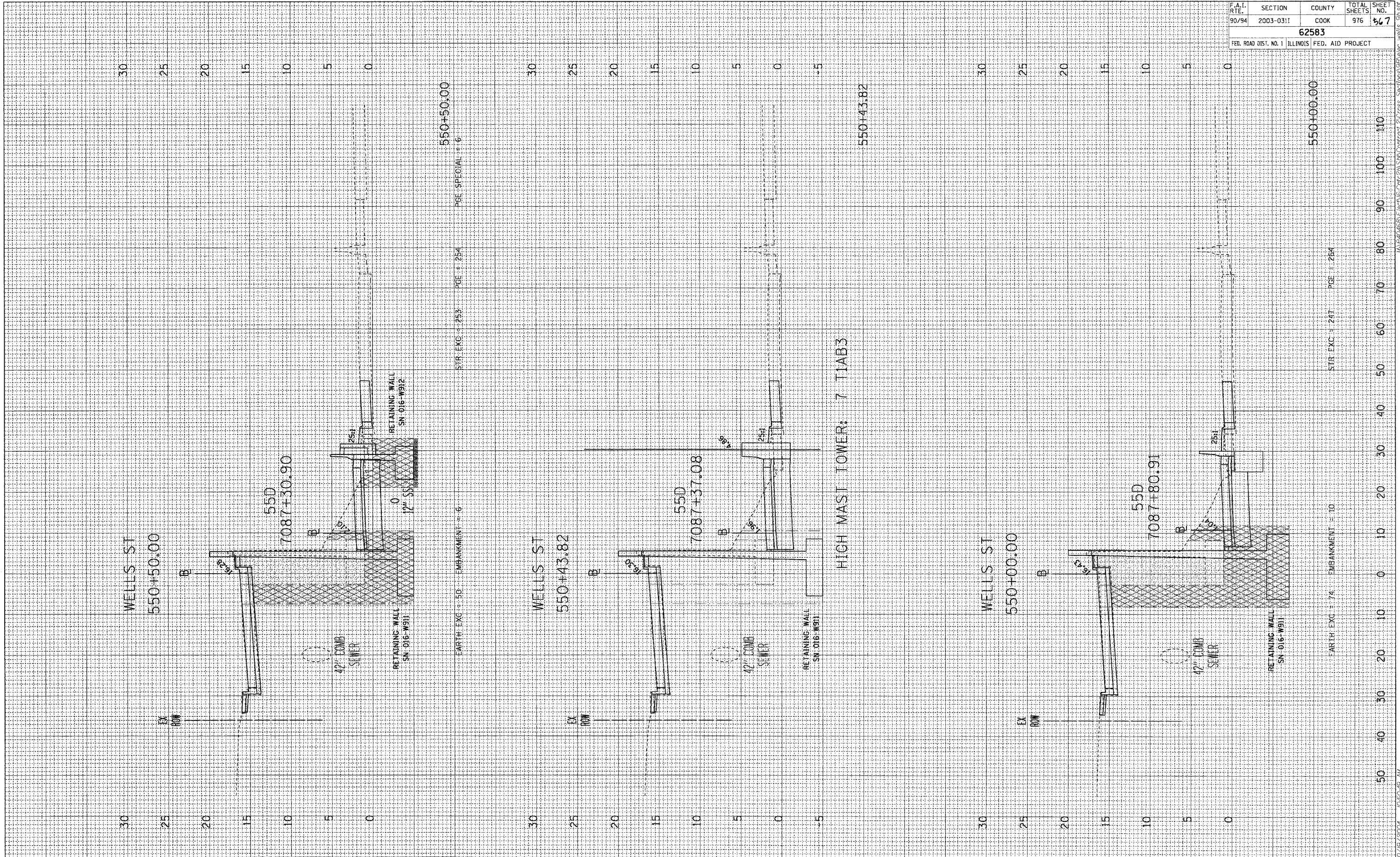
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STR EXC = 308 PGE = 161

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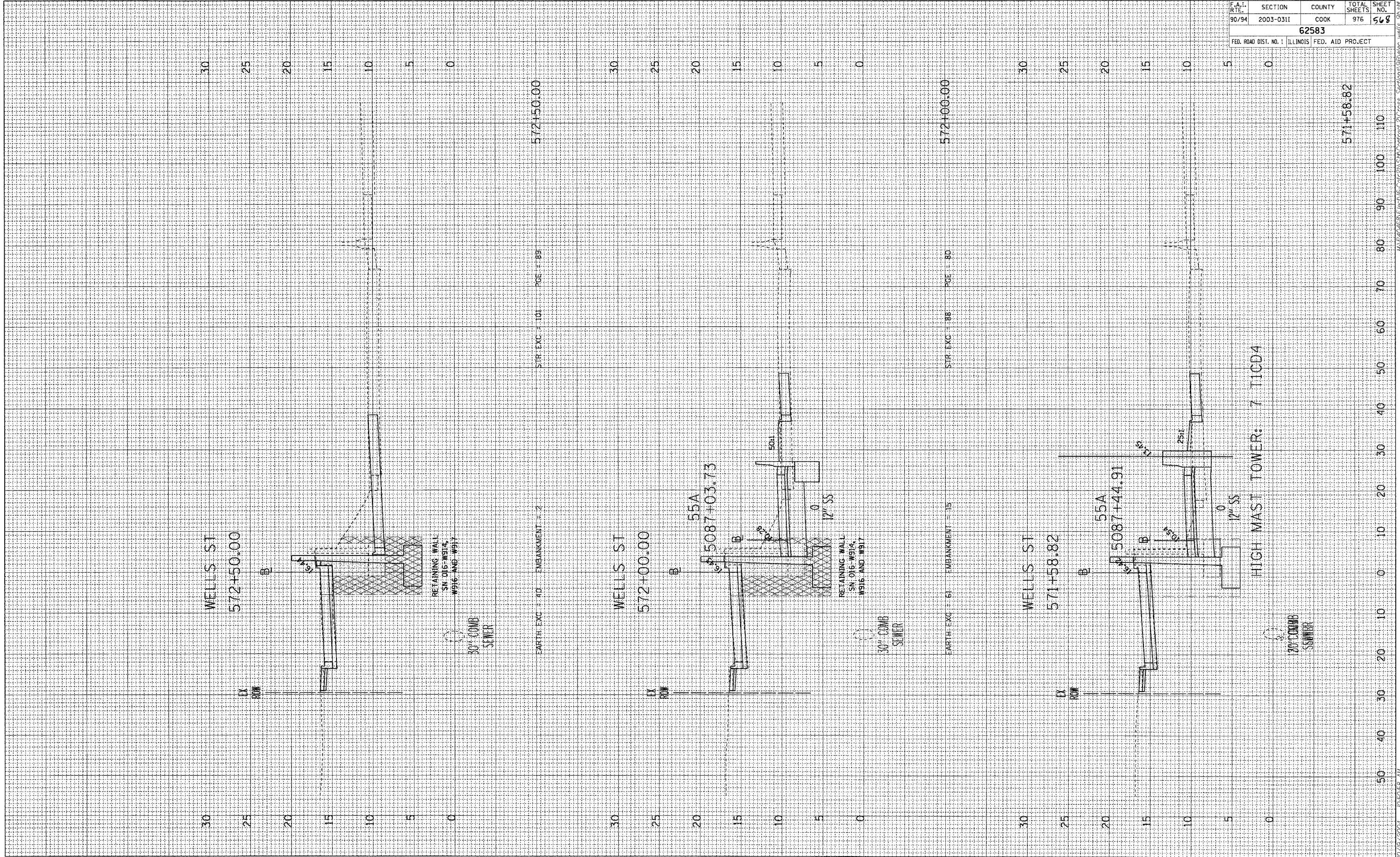
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 NOTE BOOK NO.  
 TEMPLATE AREAS CHECKED

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	67
62583				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

FINAL SURVEY BY DATE  
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 NOTE BOOK NO.  
 TEMPLATE AREAS CHECKED

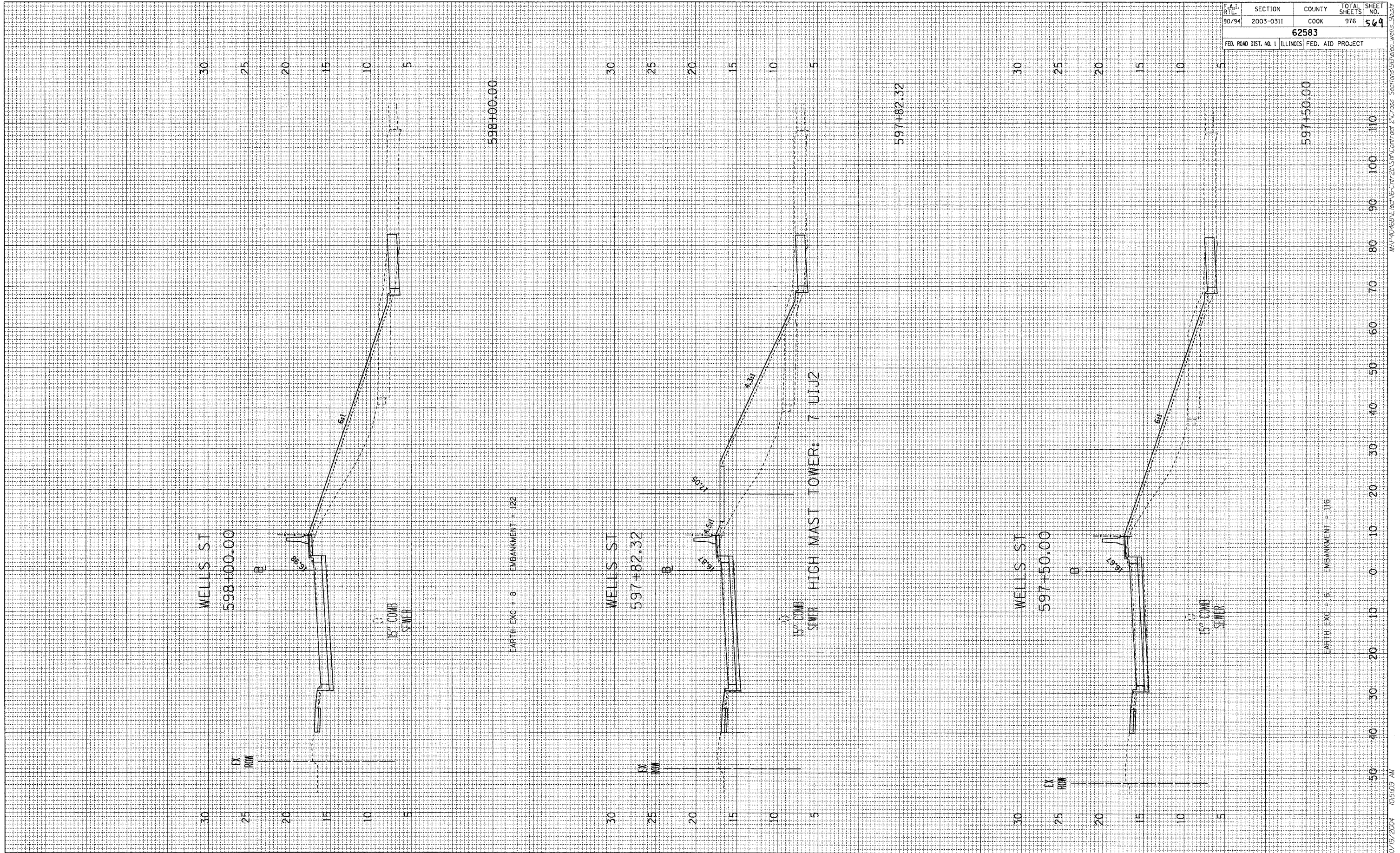


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	568
62583				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY BY DATE  
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 NOTE BOOK NO.  
 TEMPLATE AREAS CHECKED

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

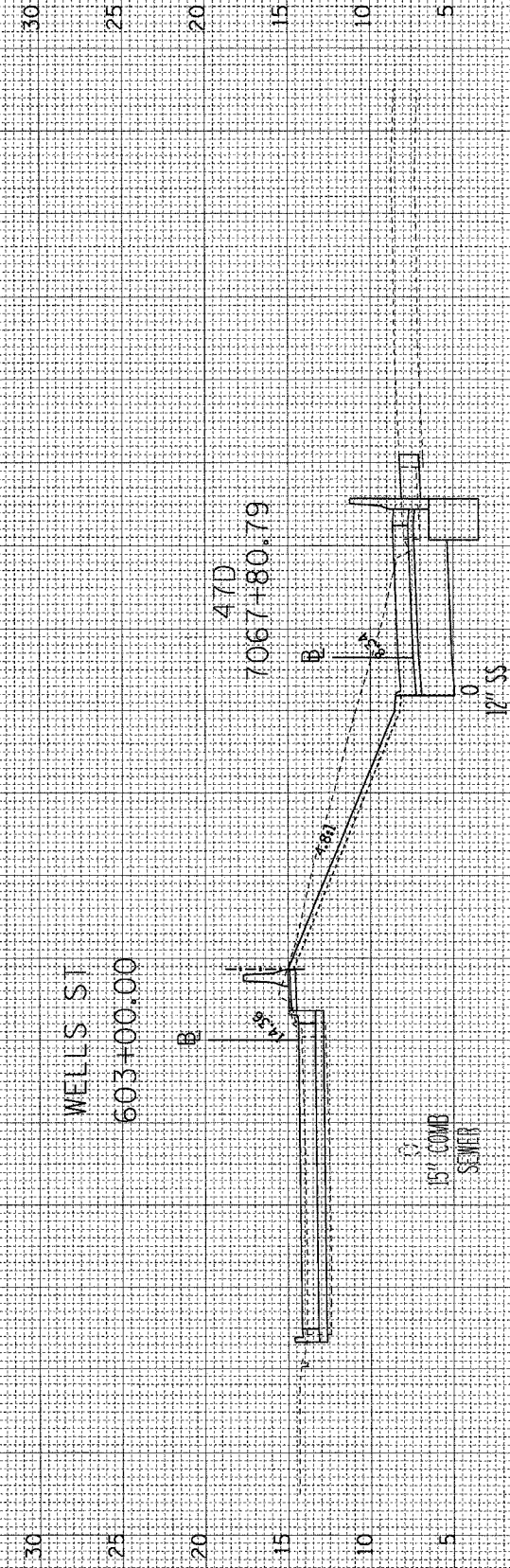
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90/94	2003-0311	COOK	976	569
62583				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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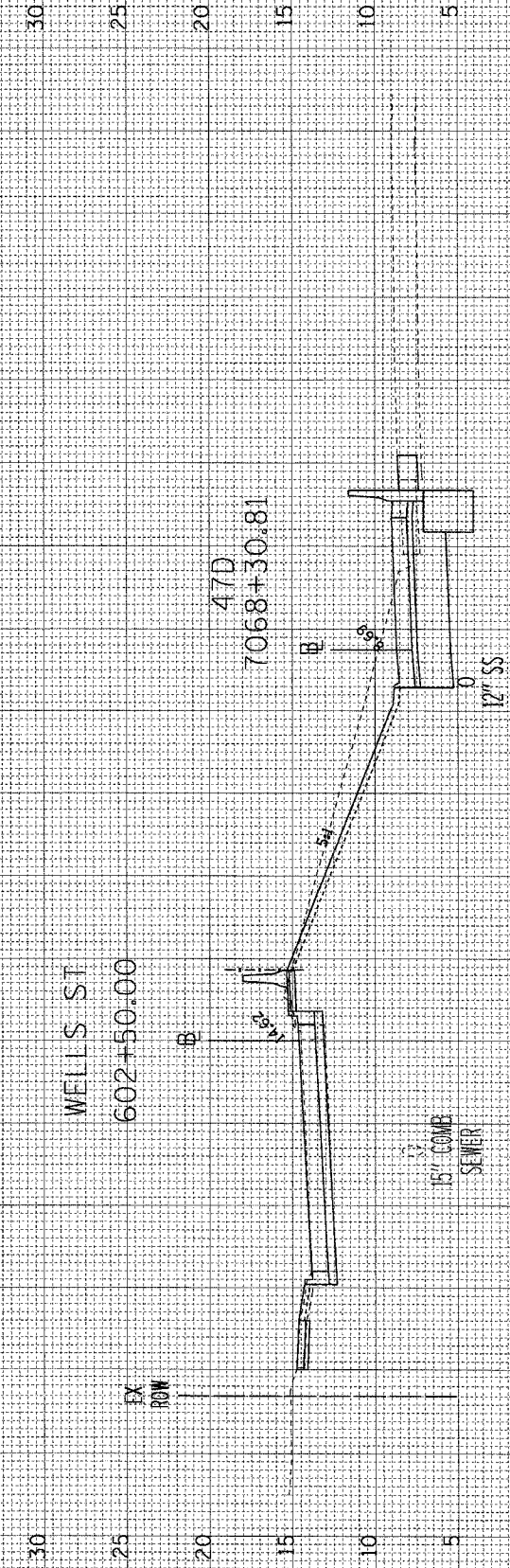
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90/94	2003-0311	COOK	976	570
62583				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



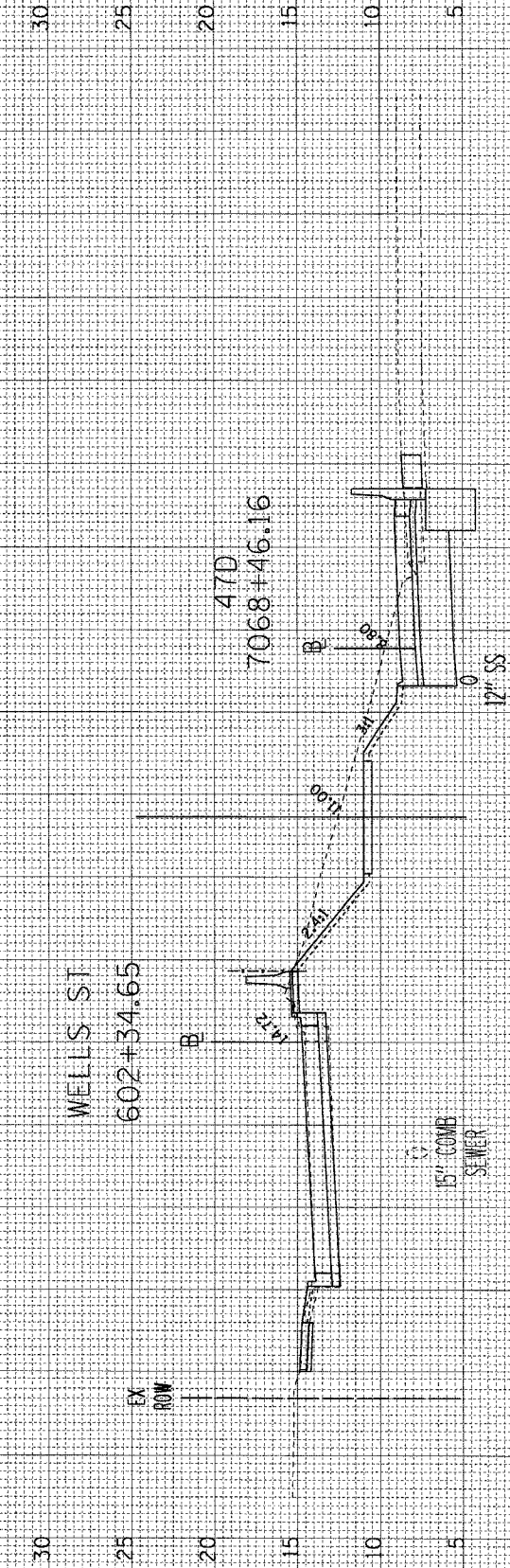
603+00.00

EARTH EXG. : 156 EMBANKMENT : 10



602+50.00

EARTH EXG. : 129 EMBANKMENT : 3



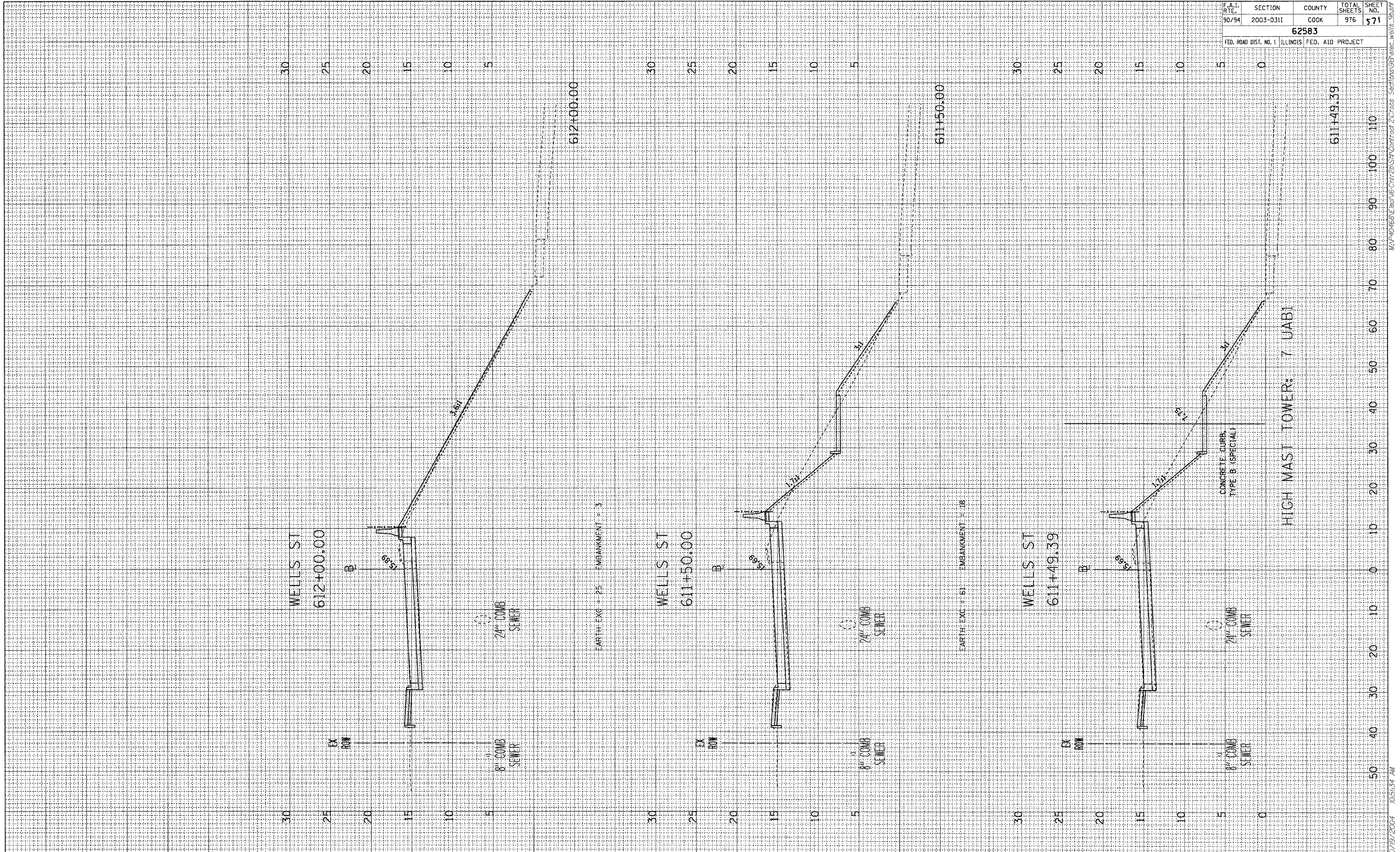
602+34.65

HIGH MAST TOWER: 7 UIJ1

FINAL SURVEY	BY	DATE
SURVISED		
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVISED		
NOTE BOOK		
AREAS CHECKED		
NO.		

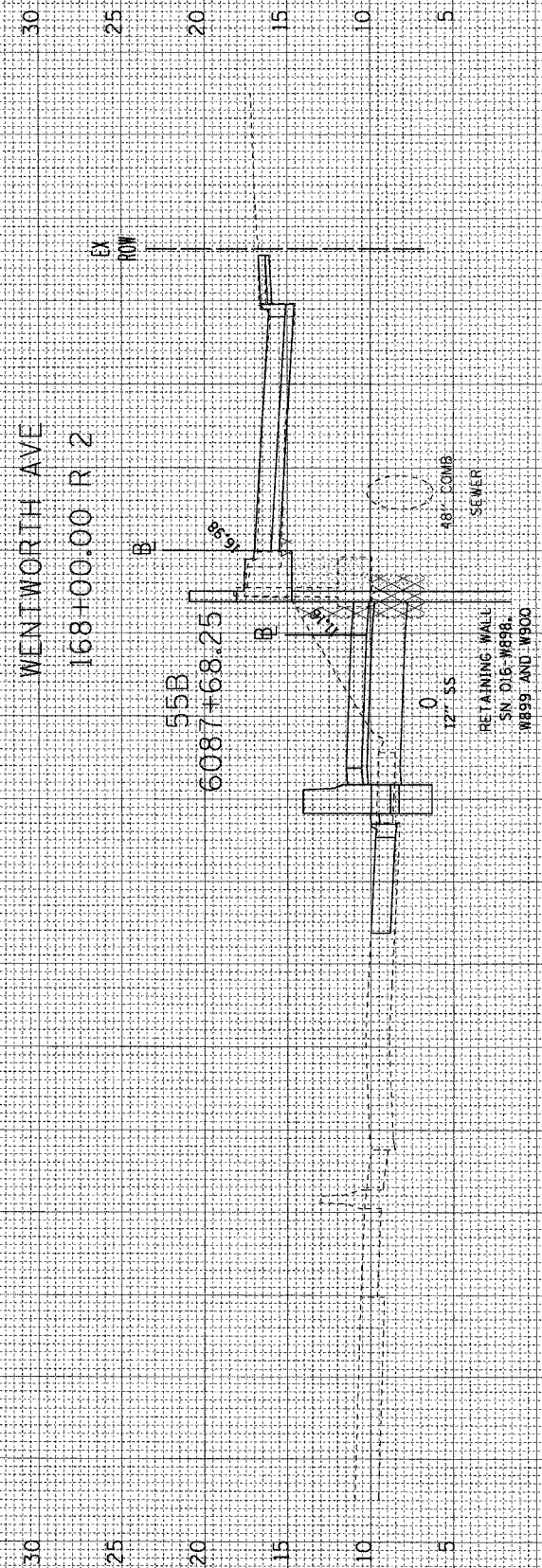
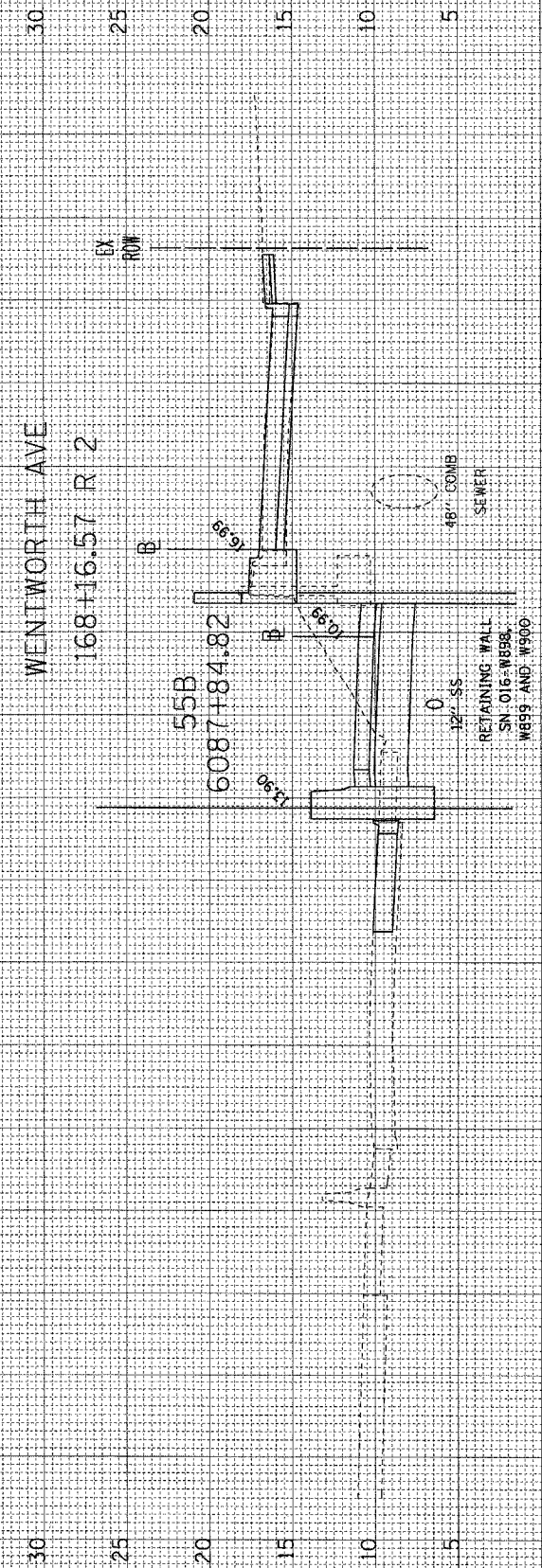
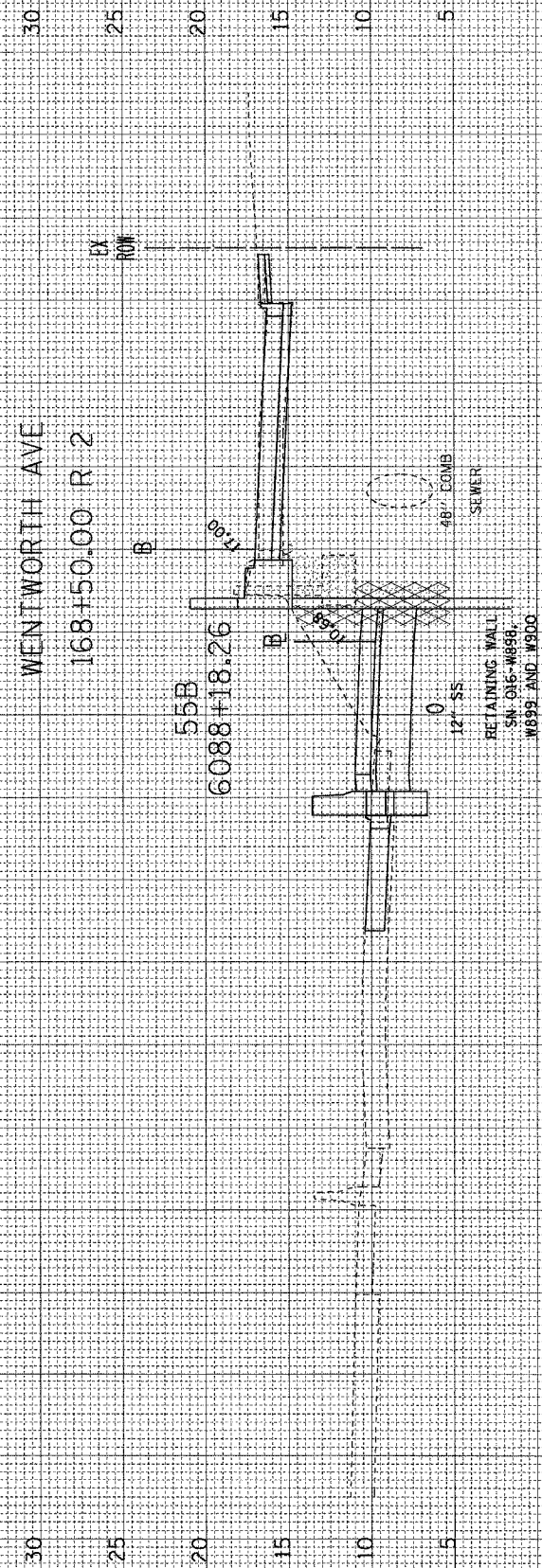
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	571
62583				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	572
<b>62583</b>				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

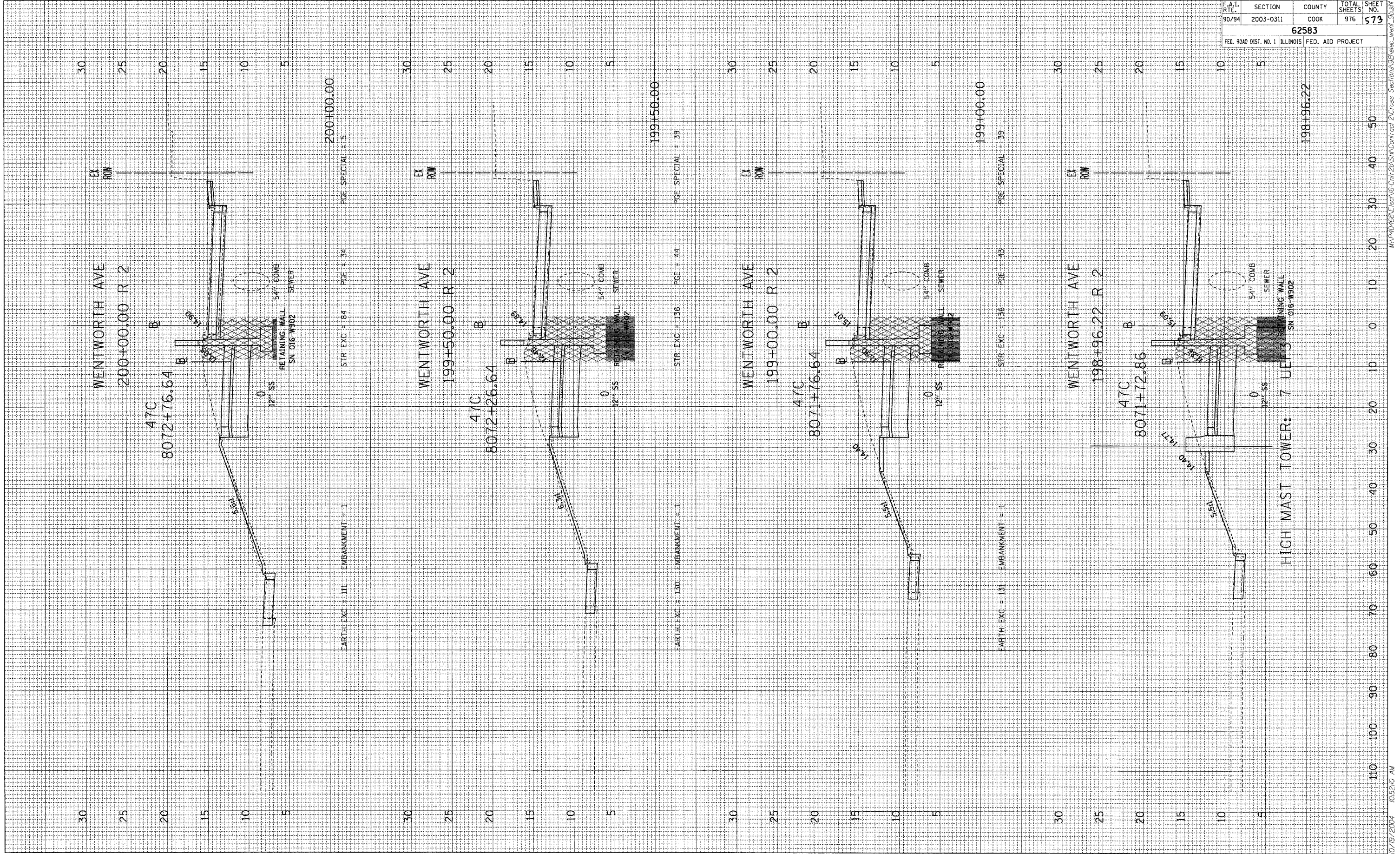




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 AREAS CHECKED

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 TEMPLATE NO.  
 NOTE BOOK NO.  
 AREAS CHECKED

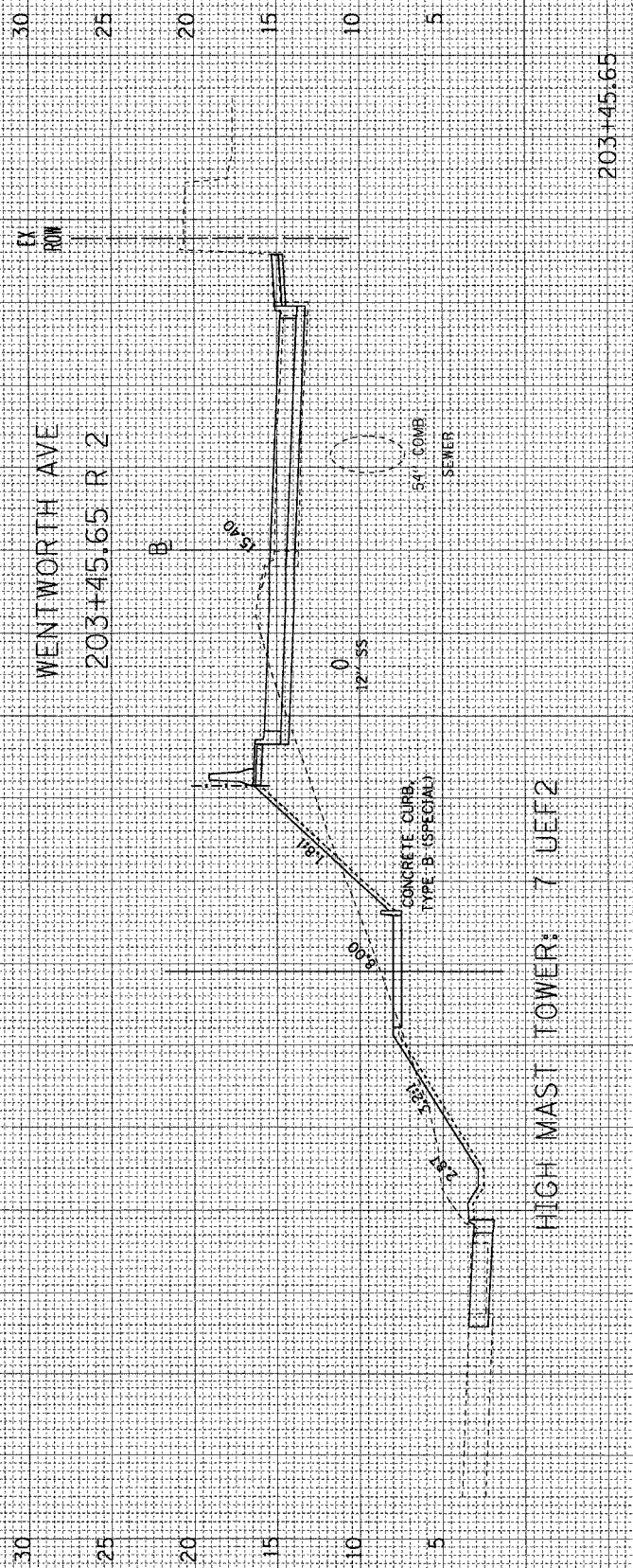
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62583				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



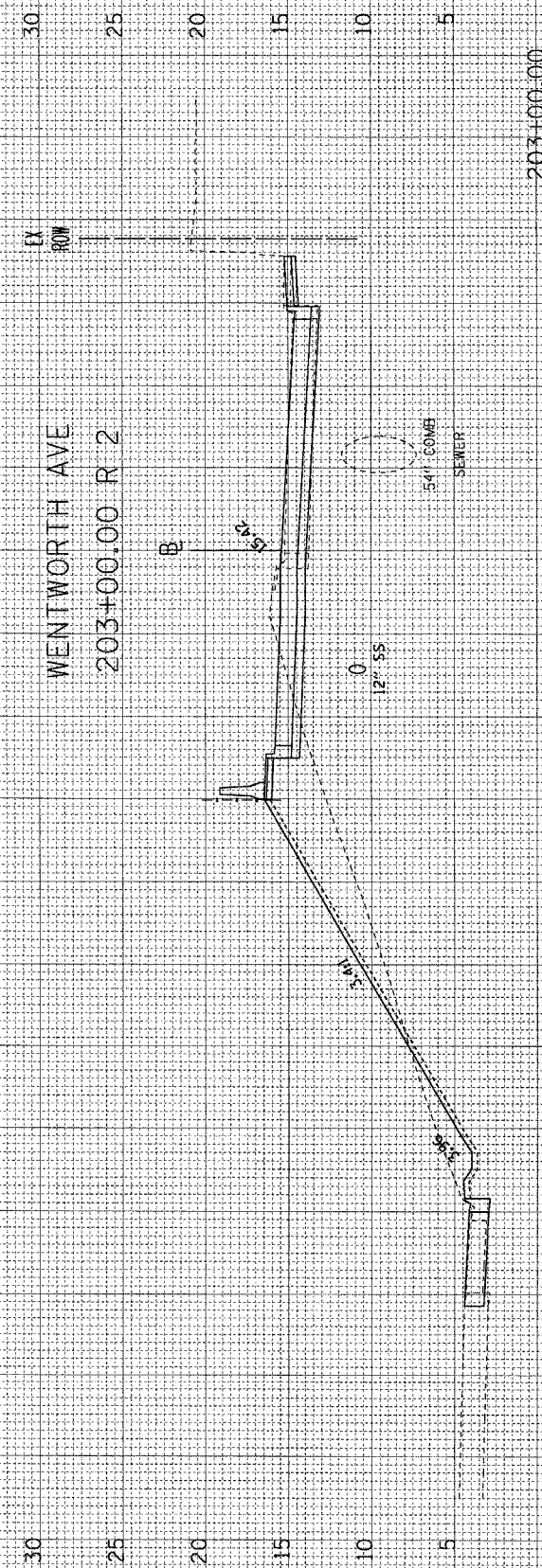
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NOTE BOOK	NO. _____		
TEMPLATE	AREAS CHECKED		

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NOTE BOOK	NO. _____		
TEMPLATE	AREAS CHECKED		

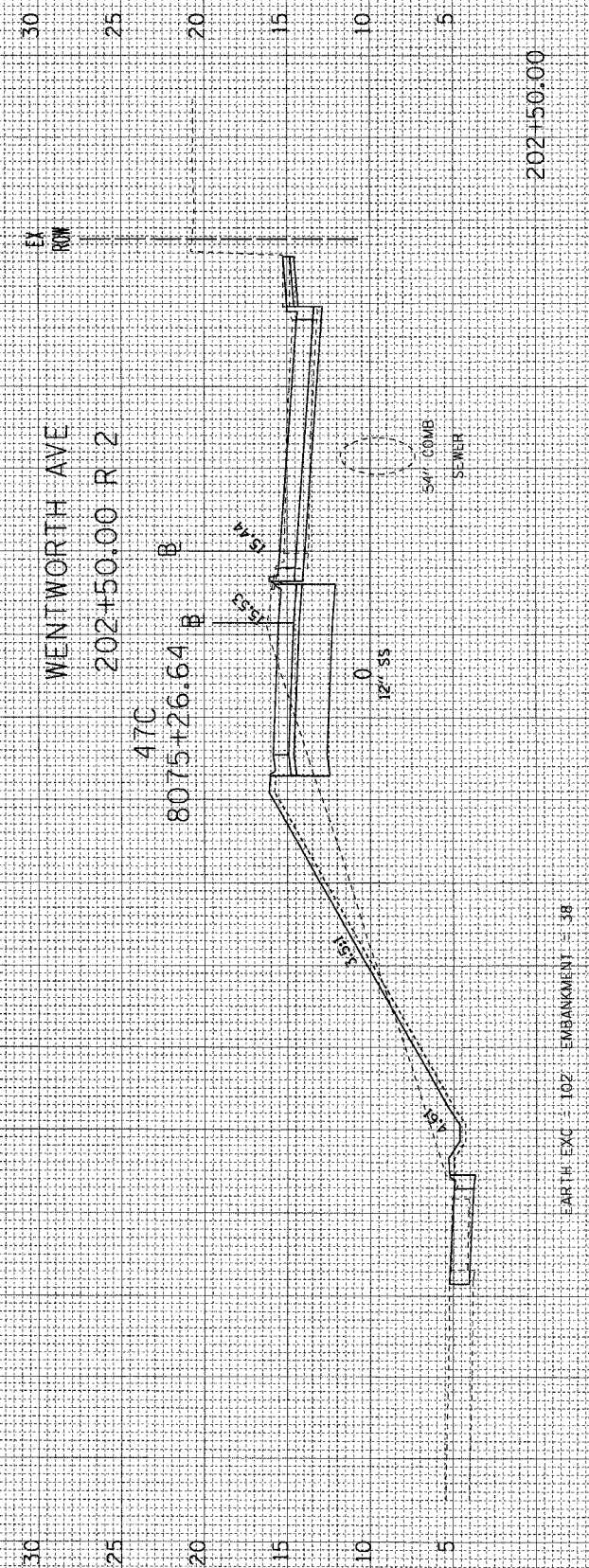
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90/94	2003-0311	COOK	976	574
<b>62583</b>				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



HIGH MAST TOWER: 7 UEF2



EARTH EXC = 55 EMBANKMENT = 67

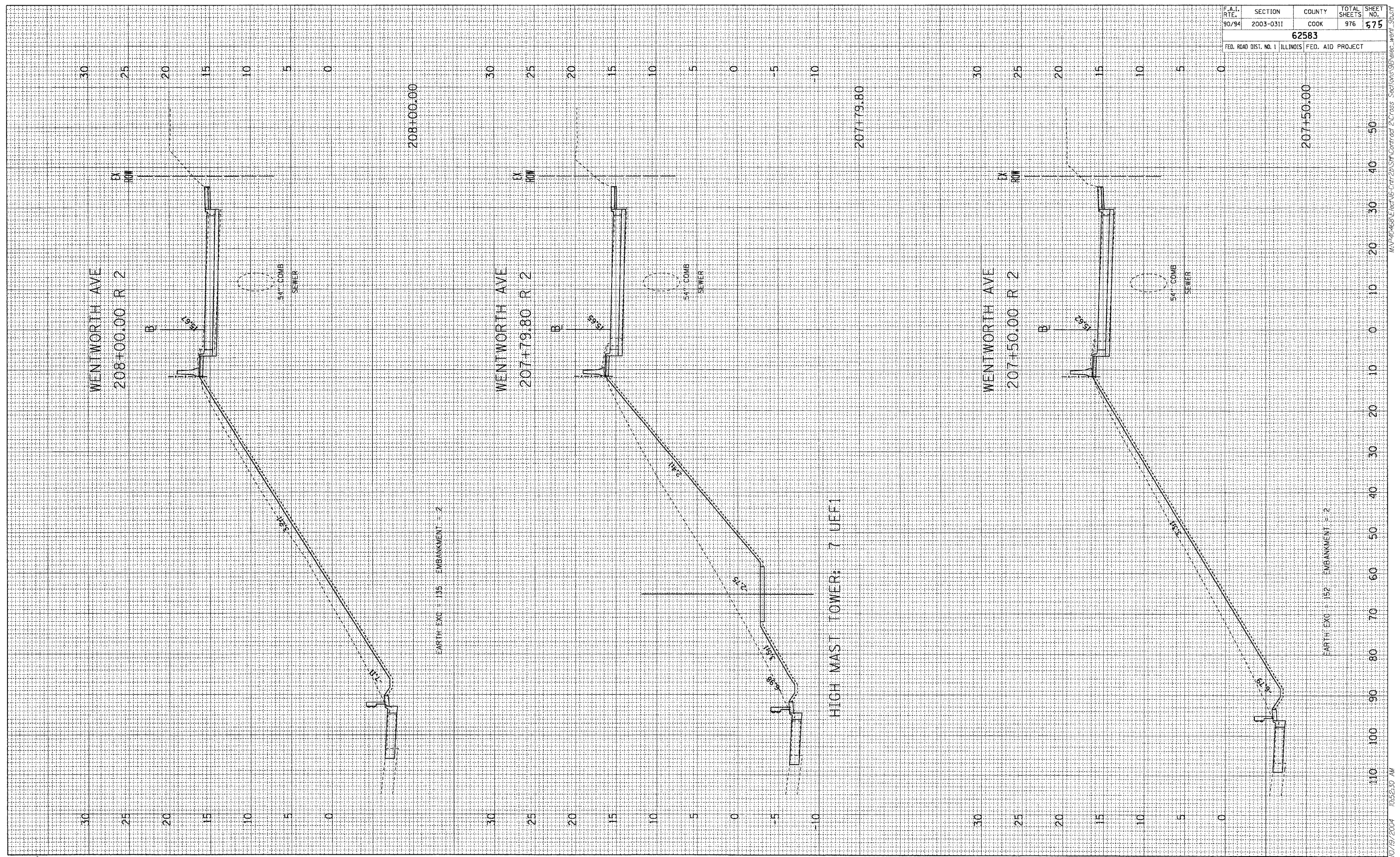


EARTH EXC = 102 EMBANKMENT = 58

FINAL SURVEY BY DATE  
 SURVEYED BY  
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 TEMPLATE  
 AREAS CHECKED

ORIGINAL SURVEY BY DATE  
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 NOTE BOOK NO.  
 TEMPLATE  
 AREAS CHECKED

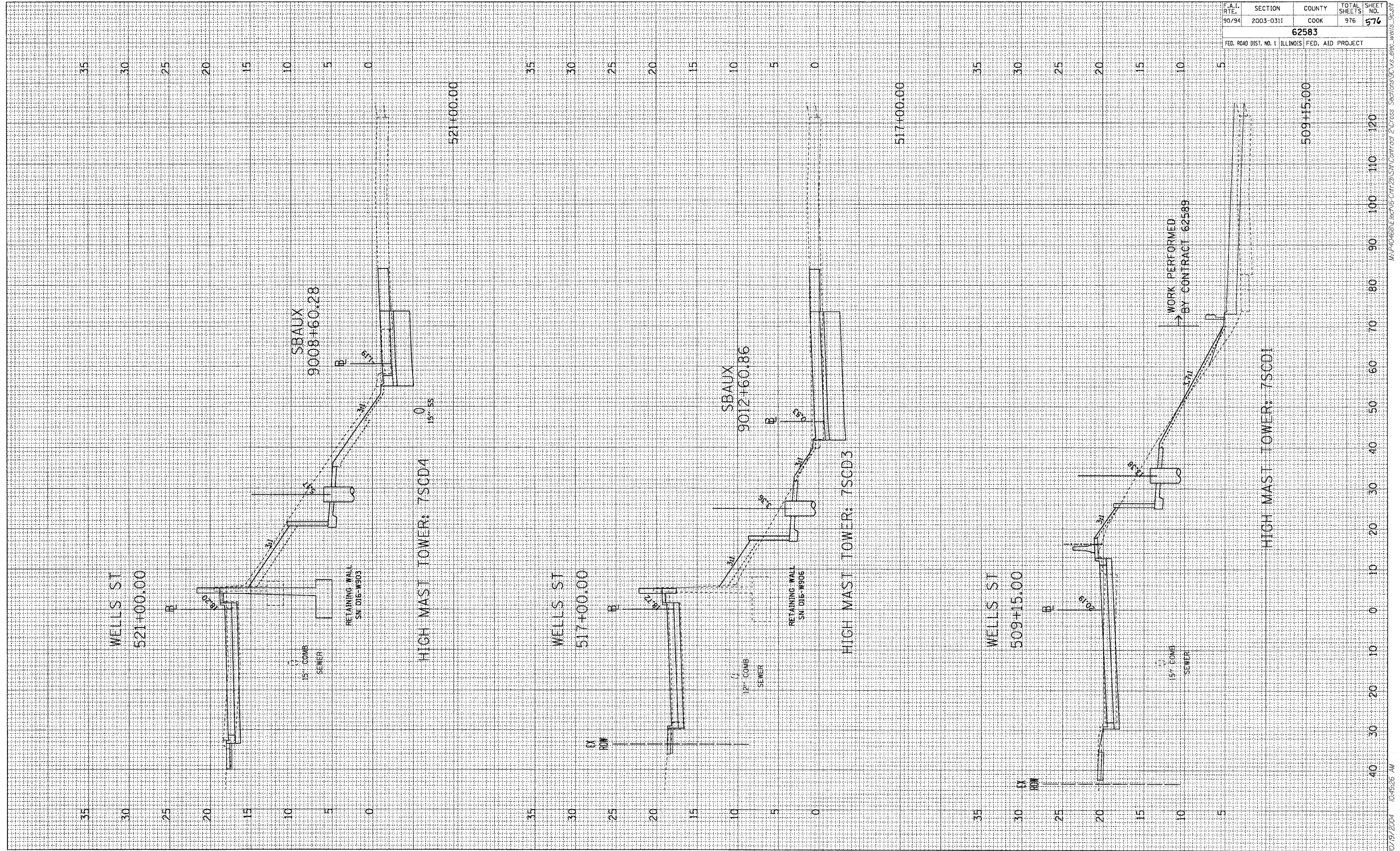
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62583				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

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

F.A.T. R.I.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	576
62583				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

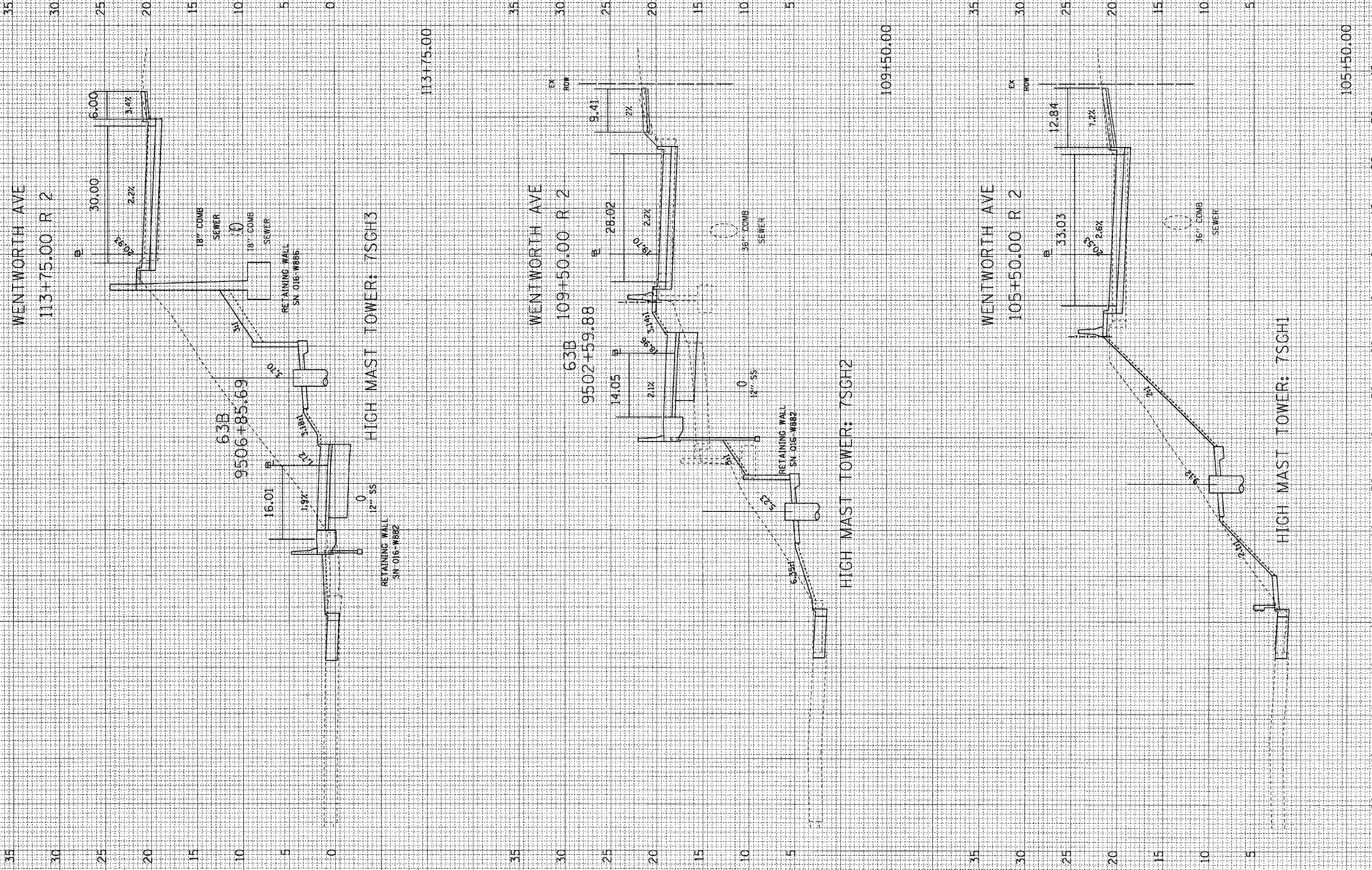




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ORIGINAL SURVEY SURVEYED SURVEY BY DATE  
 NOTE BOOK TEMPLATE AREAS CHECKED

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	578
62583				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





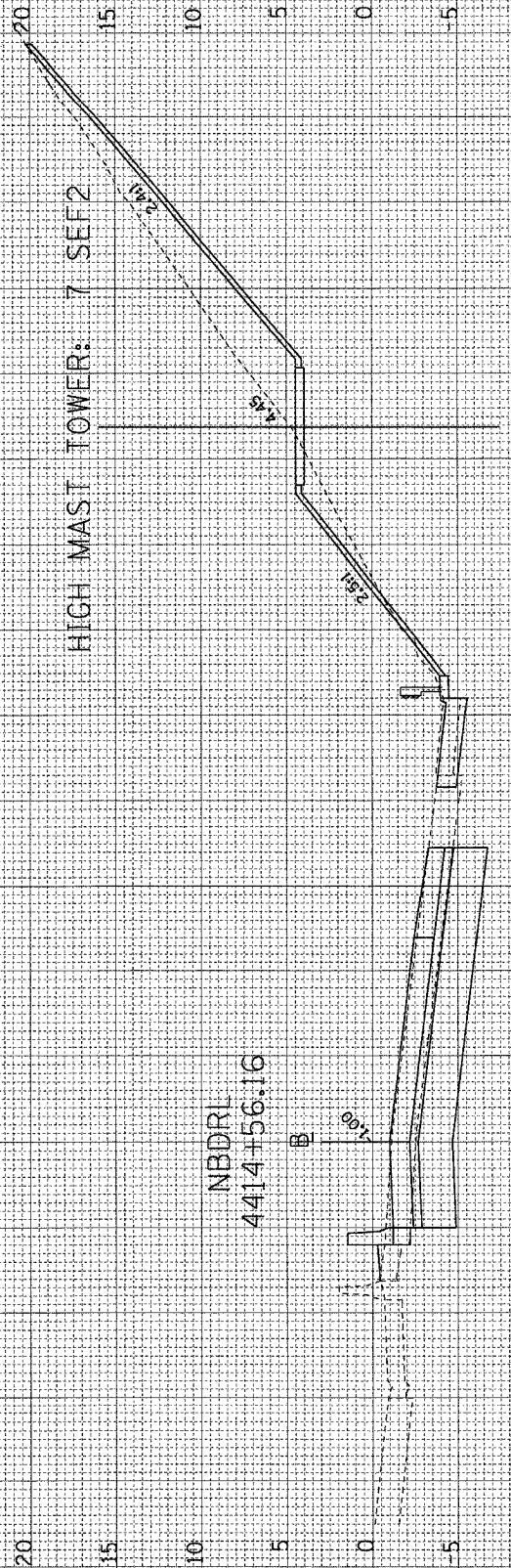




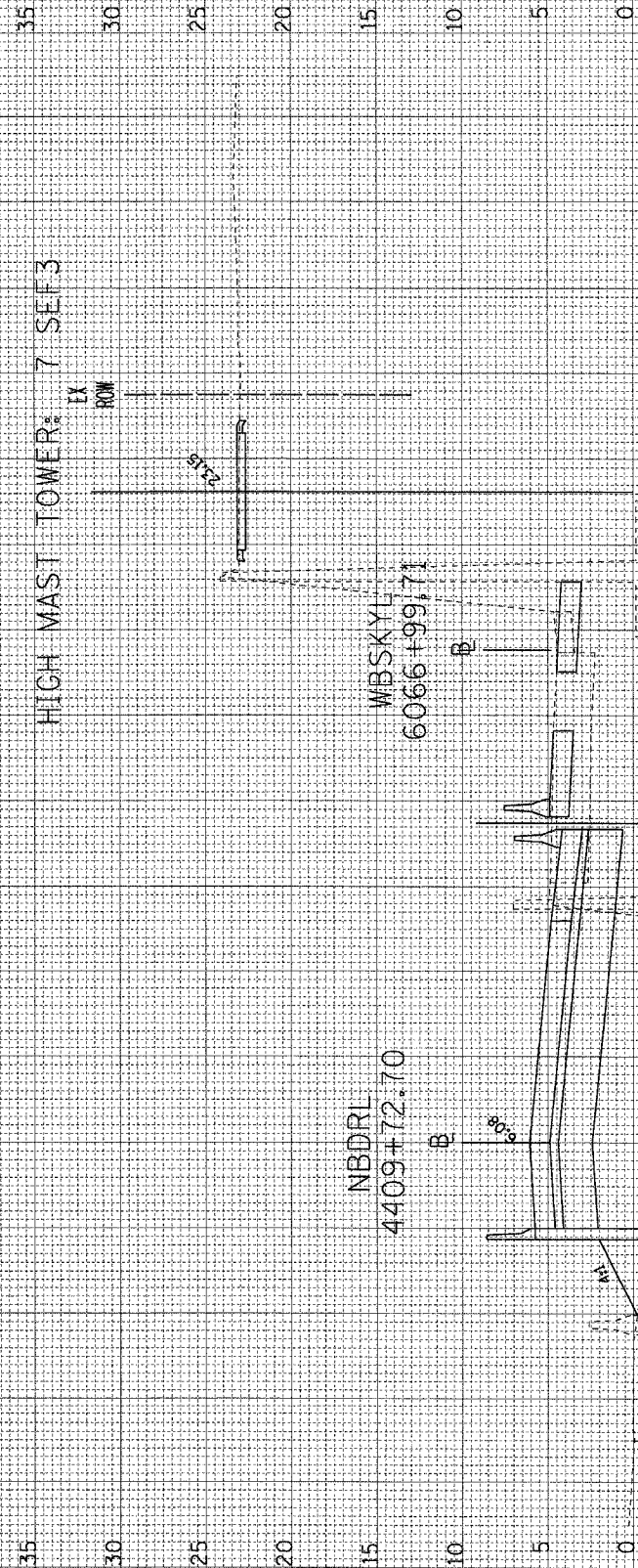
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 AREAS CHECKED \_\_\_\_\_

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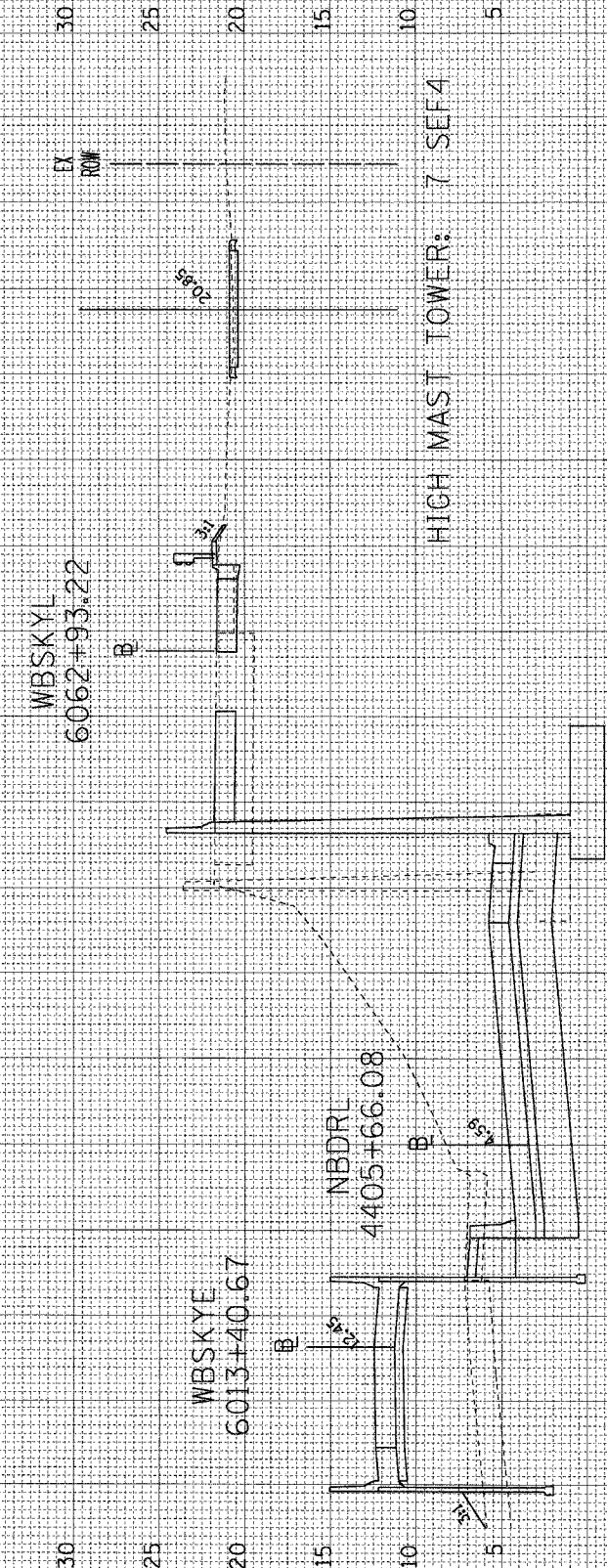
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	581
62583				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NBDRL 2414+25  
 4414+56.16



NBDRL 2409+25  
 4409+72.70

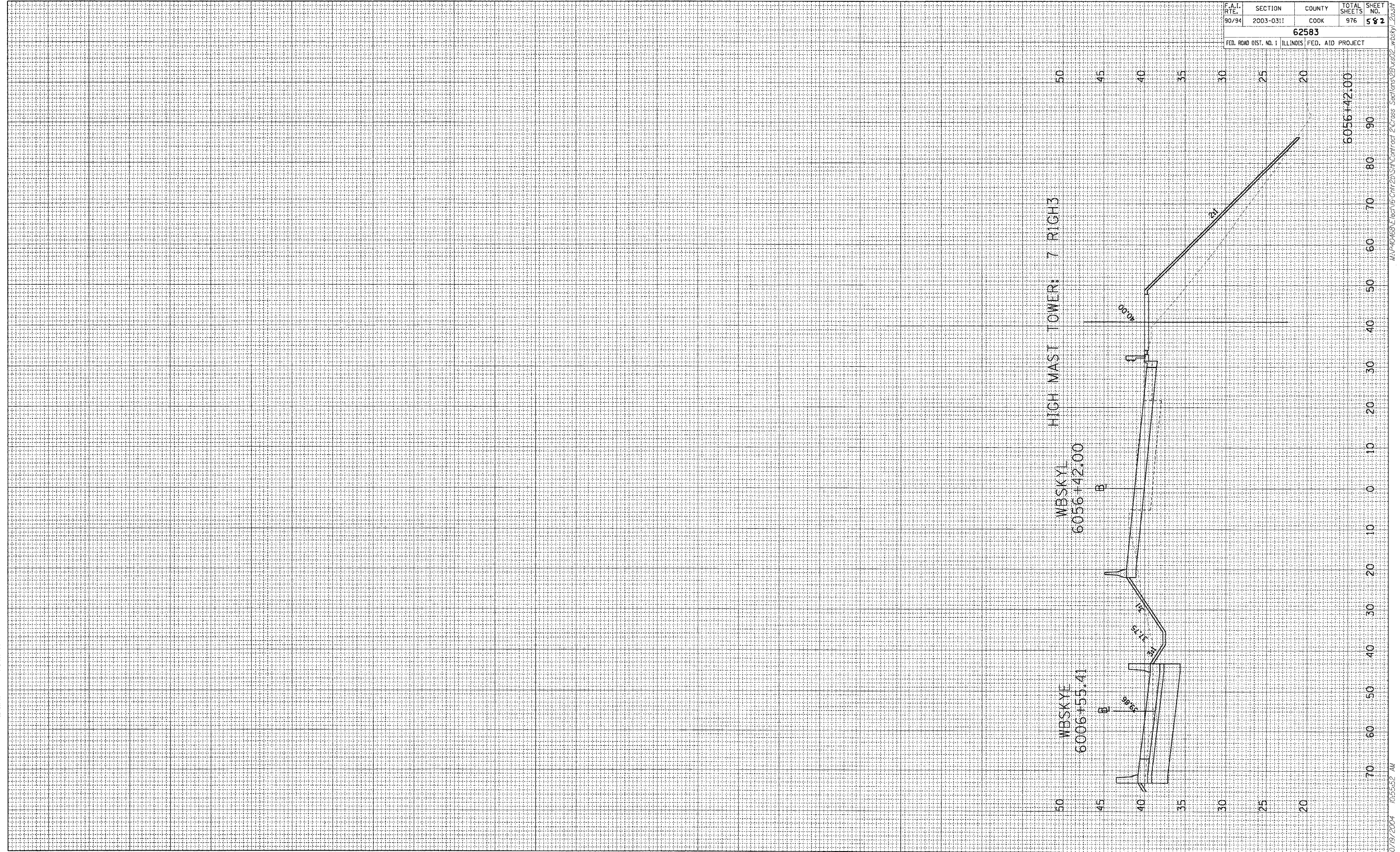


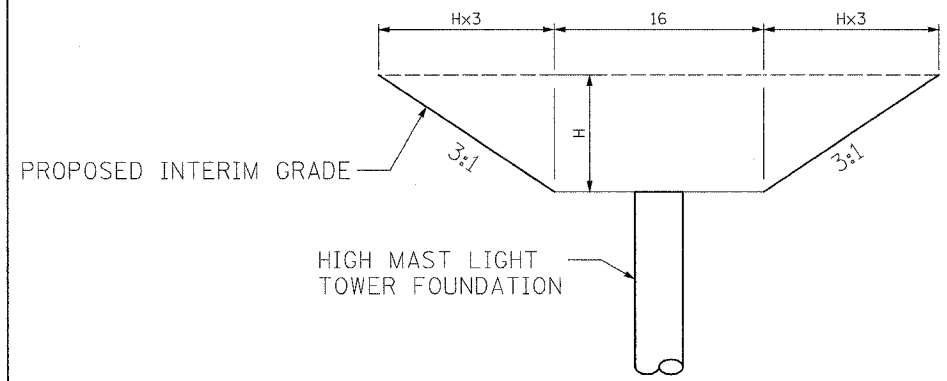
NBDRL 2405+23  
 4405+66.08

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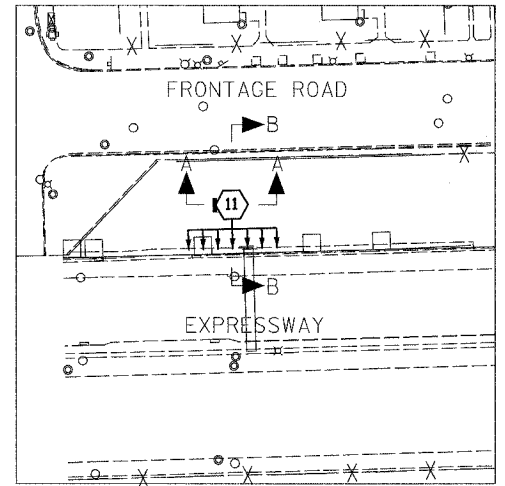
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 SURVEYED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
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F.A.I. RTE. 90/94	SECTION 2003-0311	COUNTY COOK	TOTAL SHEETS 976	SHEET NO. 582
62583				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

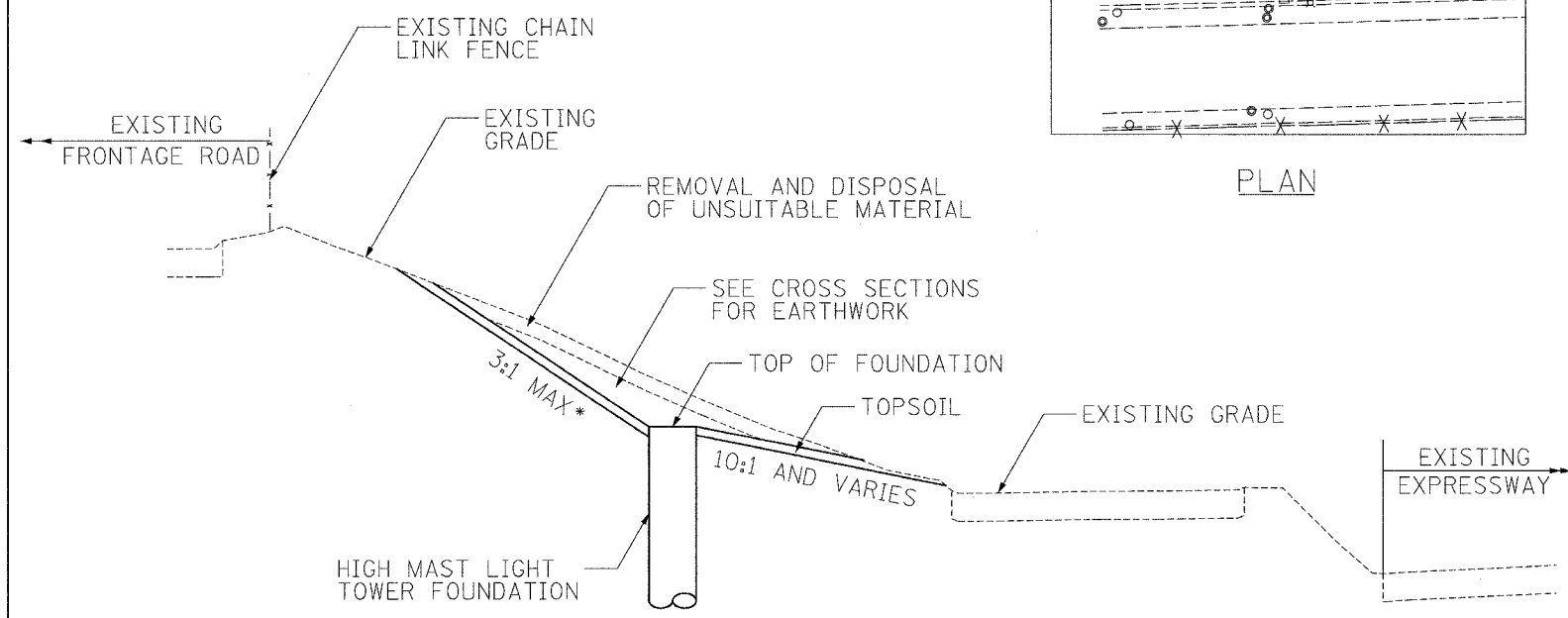




CUT GRADING DETAIL\*\* SECTION A-A



PLAN



TYPICAL EARTHWORK DETAIL\*\* SECTION B-B

EARTHWORK SCHEDULE (NORTHBOUND DAN RYAN) - QUANTITIES AND CALCULATIONS

HIGH MAST LIGHT TOWER IDENTIFICATION	HIGH MAST LIGHT TOWER LOCATION		TOP OF FOUNDATION ELEVATION	DISTANCE FROM EX. GROUND TO H.M.L.T. PAD (H) (FT.)	CROSS SECTION AREA MEASUREMENTS (SEE CROSS-SECTIONS) (SQ. FT.)		VOLUME CALCULATIONS (CU. YD.)	
	STATION (NBLOC)	OFFSET			EXCAVATION (A)	UNSUITABLE MATERIAL (B)	EXCAVATION <sup>①</sup>	UNSUIT. MAT. <sup>②</sup>
7 UGH1	4530+50	RT 82	19.13	0.0	0.0	0.0	0.0	0.0
8 UGH2	4534+60	RT 63	18.71	0.0	0.0	0.0	0.0	0.0
7 UGH3	4538+70	RT 97	14.96	0.0	0.0	0.0	0.0	0.0
7 VMN5	4542+80	RT 88	14.05	0.0	0.0	0.0	0.0	0.0
7 VMN2	4546+85	RT 88	11.22	1.2	19.6	11.5	13.4	7.8
7 VMN1	4550+95	RT 107.5	10.10	0.0	3.6	3.4	2.1	2.0
7 VEF3	4555+05	RT 88	1.90	5.0	133.4	27.4	128.5	26.4
7 VEF2	4559+15	RT 77	5.98	2.4	32.3	12.1	24.9	9.3
8 VEF1	4563+20	RT 101	5.75	3.2	61.8	19.9	51.3	16.5
7 VGH1	4567+25	RT 88	1.38	1.7	52.0	22.1	37.4	15.9
7 VGH2	4571+30	RT 88	0.75	0.3	0.0	6.0	0.0	3.7
7 VGH3	4575+60	RT 103	3.30	0.0	0.0	2.0	0.0	1.2
7 VGH4	4579+90	RT 78	1.13	1.9	28.2	14.2	20.7	10.4
TOTAL							278.1	93.2

EARTHWORK SCHEDULE (SOUTHBOUND DAN RYAN) - QUANTITIES AND CALCULATIONS

HIGH MAST LIGHT TOWER IDENTIFICATION	HIGH MAST LIGHT TOWER LOCATION		TOP OF FOUNDATION ELEVATION	DISTANCE FROM EX. GROUND TO H.M.L.T. PAD (H) (FT.)	CROSS SECTION AREA MEASUREMENTS (SEE CROSS-SECTIONS) (SQ. FT.)		VOLUME CALCULATIONS (CU. YD.)	
	STATION (SBLOC)	OFFSET			EXCAVATION (A)	UNSUITABLE MATERIAL (B)	EXCAVATION <sup>①</sup>	UNSUIT. MAT. <sup>②</sup>
7 UCD1	3530+20	LT 76	6.95	1.8	38.9	20.3	28.2	14.7
7 UCD2	3534+30	LT 74	13.45	0.0	0.0	0.0	0.0	0.0
7 VIJ3	3538+35	LT 86	19.88	0.0	0.0	0.0	0.0	0.0
7 VIJ2	3542+35	LT 93	11.40	0.0	0.0	0.0	0.0	0.0
7 VIJ1	3546+45	LT 88	10.69	0.3	0.0	4.7	0.0	2.9
7 VAB4	3550+55	LT 107	9.41	3.4	59.3	19.4	50.1	16.4
7 VAB3	3554+65	LT 88	4.62	2.9	93.5	27.5	75.6	22.2
7 VAB2	3558+75	LT 87	8.12	2.6	37.7	14.2	29.6	11.1
8 VAB1	3562+80	LT 112	6.00	2.4	46.0	16.2	35.4	12.5
8 VCD1	3566+85	LT 88	0.24	2.5	71.3	30.5	55.5	23.7
7 VCD2	3570+90	LT 88	4.71	0.0	0.0	5.9	0.0	3.5
7 VCD3	3575+20	LT 101	6.89	1.5	26.8	16.2	18.9	11.4
7 VCD4	3579+50	LT 76	2.72	0.5	13.1	13.5	8.2	8.5
TOTAL							301.6	127.0

TEMPORARY AERIAL CABLE POLES (NORTHBOUND)

STATION (NBLOC)	OFFSET	EXTRA DEPTH
4544+81	RT 95'	-
4548+90	RT 105'	2.5
4553+00	RT 79'	3
4557+11	RT 95'	2
4561+18	RT 109'	5.5
4565+22	RT 106'	-
4569+27	RT 100'	-
4573+45	RT 106'	-
4577+75	RT 66'	-

TEMPORARY AERIAL CABLE POLES (SOUTHBOUND)

STATION (SBLOC)	OFFSET	EXTRA DEPTH
3544+41	LT 100'	-
3548+50	LT 107'	-
3552+60	LT 70'	4
3556+70	LT 100'	1.5
3560+78	LT 123'	4.5
3564+82	LT 112'	-
3568+88	LT 100'	-
3573+06	LT 106'	-
3577+35	LT 115'	-

\*WHERE SHOWN ON CROSS-SECTIONS, SELECT BACK SLOPES ARE STEEPER THAN 3:1  
 \*\*FOR PROJECT SECTION FROM 47TH TO 31ST STREET ONLY  
 \*\*\*QUANTITY BASED ON 1'X3' ELECTRICAL TRENCH INSTALLATIONS BEING DONE AFTER SUBSTANTIAL COMPLETION OF EARTHWORK BY OTHERS (CONTRACT 62301 AND 62303).

NON-SPECIAL WASTE DISPOSAL\*\*\*

STATION		NON-SPECIAL WASTE DISPOSAL (CU. YD.)
SB - DAN RYAN		
3588+20 TO 3591+00	LIGHTING TRENCH	23.5
3601+00 TO 3604+00	ITS TRENCH	32.5
	LIGHTING TRENCH	32.5
3603+82	H.M.L.T. FOUNDATION	3.0
3627+30 TO 3628+70	LIGHTING TRENCH	13.0
NB - DAN RYAN		
4585+00 TO 4588+70	LIGHTING TRENCH	41.5
4588+25	H.M.L.T. FOUNDATION	5.5
TOTAL		151.5

EXTRA DEPTH = ADDITIONAL DEPTH (BEYOND NORMAL) TEMPORARY AERIAL CABLE POLES NEED TO BE DRIVEN INTO THE GROUND DUE TO EARTH EXCAVATION THAT WILL BE DONE BY CONTRACTS 62301 AND 62303. INCLUDED WITH COST OF TEMPORARY WOOD POLE, 60 FT., CLASS 4.

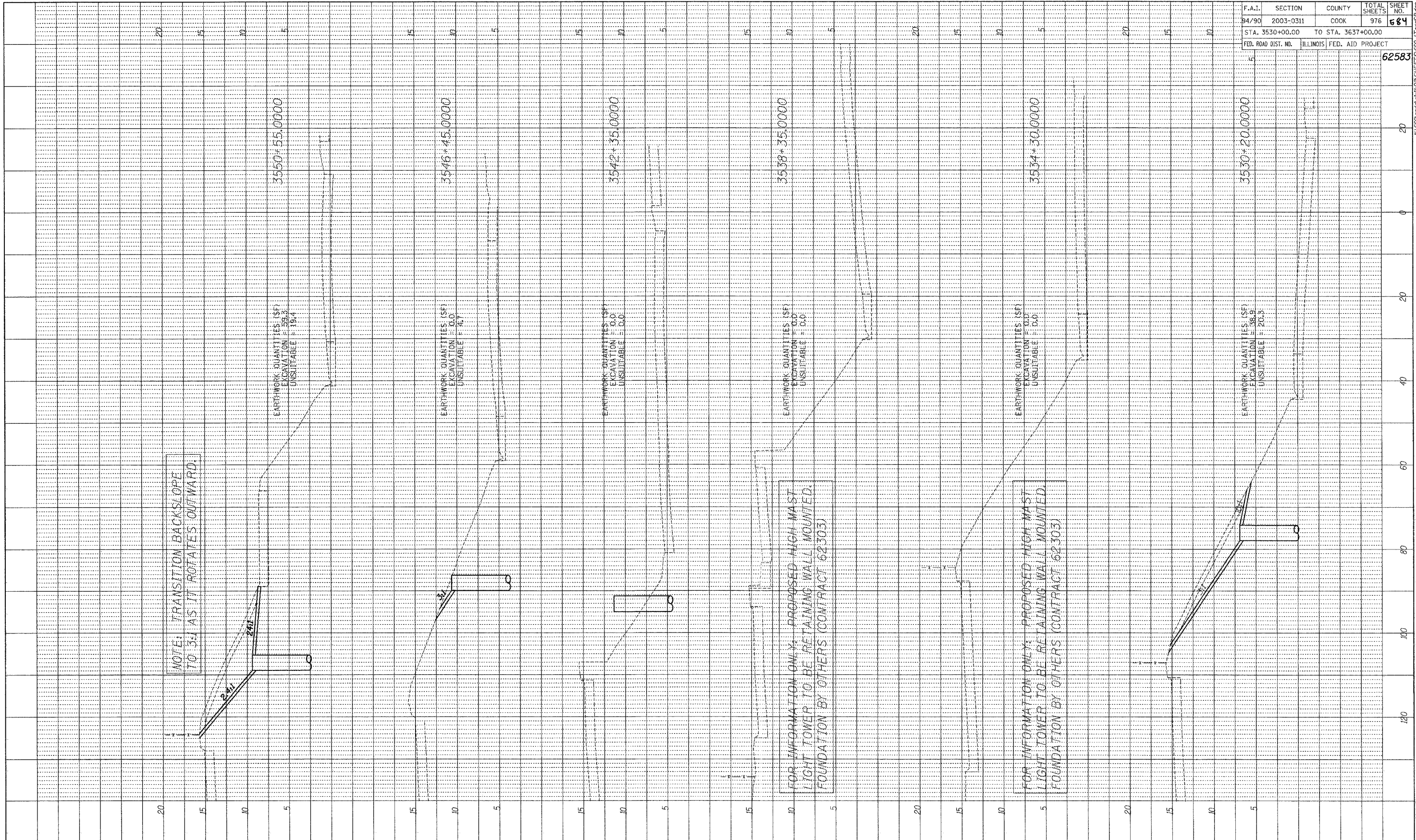
REVISIONS

NAME	DATE

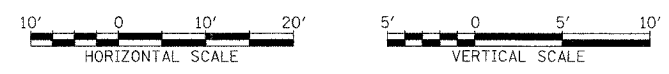
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)  
 31ST STREET TO 71ST STREET  
 HIGH MAST LIGHT TOWER  
 DETAIL AND EARTHWORK SCHEDULE  
 SCALE: =NTS    DRAWN BY: EGH  
 DATE: OCTOBER 15, 2004    CHECKED BY: JDC

NOTES:  
 2008 FINAL CONDITION CROSS SECTIONS OF ALL LIGHT TOWER LOCATIONS FROM 31ST TO 47TH STREET, AS DONE BY OTHERS UNDER CONTRACTS 62301 AND 62303, ARE INCLUDED FOR INFORMATION ONLY. THEY ARE PROVIDED TO ILLUSTRATE THE EXTENT OF EARTHWORK OPERATIONS FROM EXISTING TO FINAL CONDITIONS.  
 TEMPORARY AERIAL CABLING IS BEING INSTALLED BY THIS CONTRACT FROM 47TH STREET TO PERSHING ROAD AND BY CONTRACT 62733 FROM PERSHING ROAD TO 31ST STREET. THESE CABLES HAVE BEEN PROVIDED TO AVOID CONFLICTS BETWEEN EARTHWORK AND ELECTRICAL INFRASTRUCTURE INSTALLATION WITHIN THE DAN RYAN PARKWAY (AREA BETWEEN LOCAL LANES, RAMPS, AND FRONTAGE ROADS).  
 ANY EXTRA COSTS AND REPAIRS ASSOCIATED WITH THE INSTALLATION OF PERMANENT ELECTRICAL INFRASTRUCTURE IMPROVEMENTS, WITHIN THE DAN RYAN PARKWAY, PRIOR TO THE SUBSTANTIAL COMPLETION OF EARTHWORK OPERATIONS SHALL BE THE RESPONSIBILITY OF THIS CONTRACT.

PROFILE SURVEYED	BY	DATE
PLANS DRAWN		
NOTE BOOK NO.		
STRUCTURE NOTATION OFFNO		



**DBA**  
**DOWMAN, BARRETT & ASSOCIATES INC.**  
 CONSULTING ENGINEERS  
 170 EAST RANDOLPH STREET SUITE 205 CHICAGO, ILLINOIS 60601  
 312.591.4444



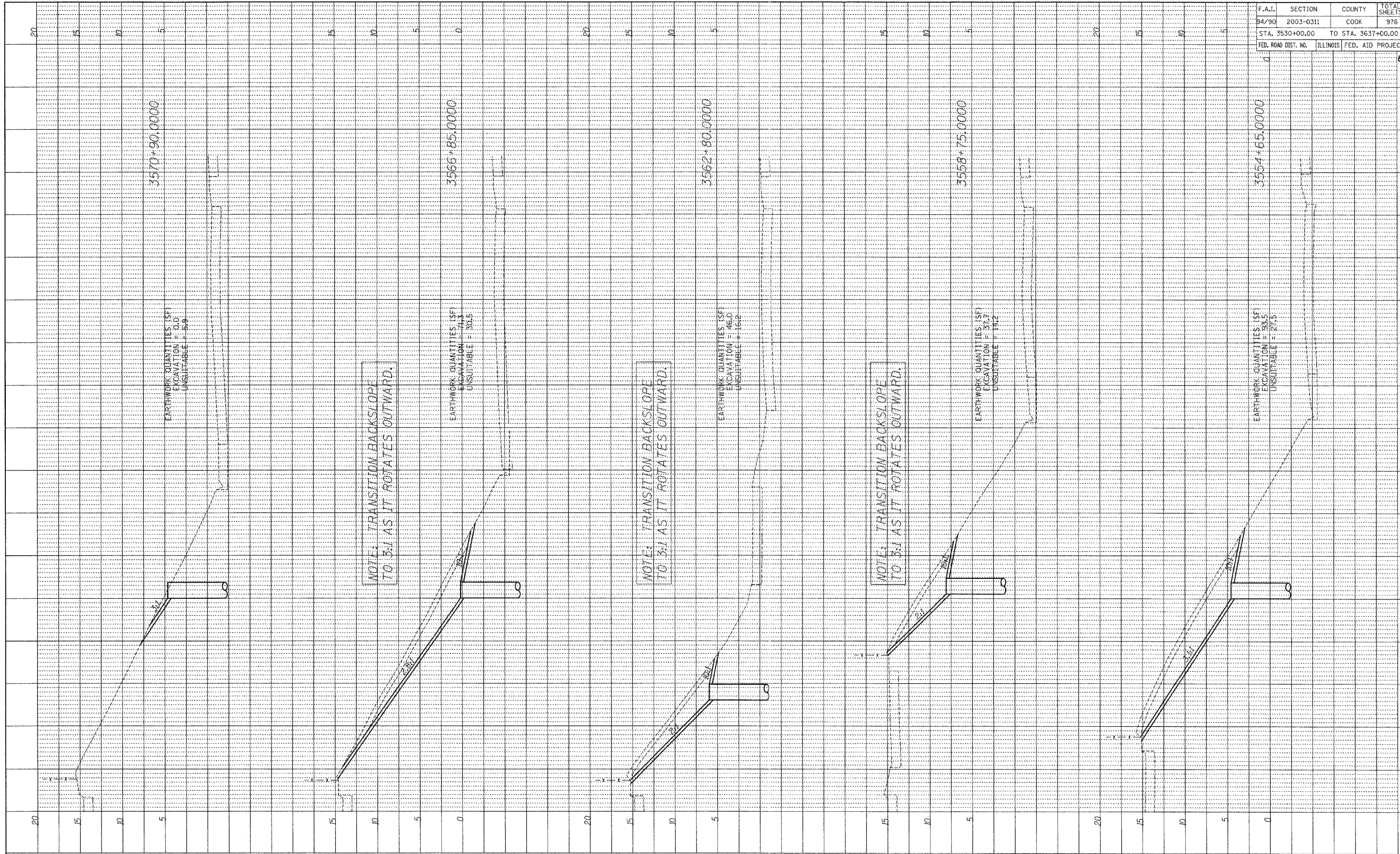
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0311	COOK	976	684
STA. 3530+00.00		TO STA. 3637+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	62583	

XS02

10/15/2004 2:52:01 PM

H:\660\road\CHWING\02\SHEETS\680.LT cas.Brog

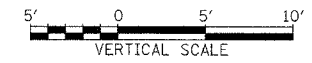
PROFILE SURVEYED	BY	DATE
PLANNED		
NOTE BOOK NO.		
STRUCTURE NOTATION		



F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0311	COOK	976	585
STA. 3530+00.00		TO STA. 3637+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62583

**BOWMAN, BARRETT & ASSOCIATES INC.**  
CONSULTING ENGINEERS  
121 EAST RANDOLPH STREET SUITE 2650 CHICAGO, ILLINOIS 60601  
312.467.1100

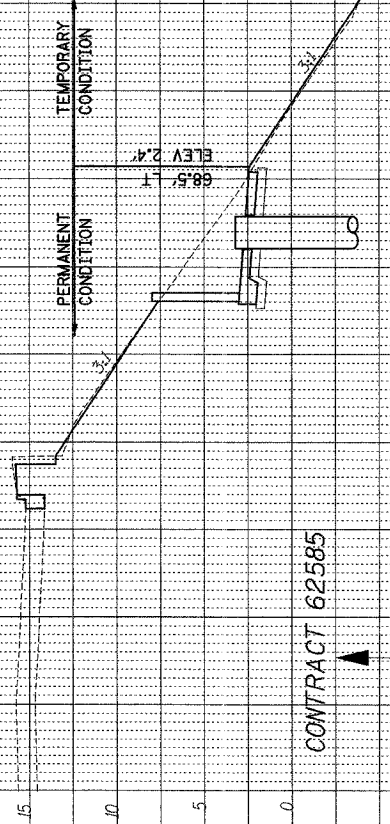
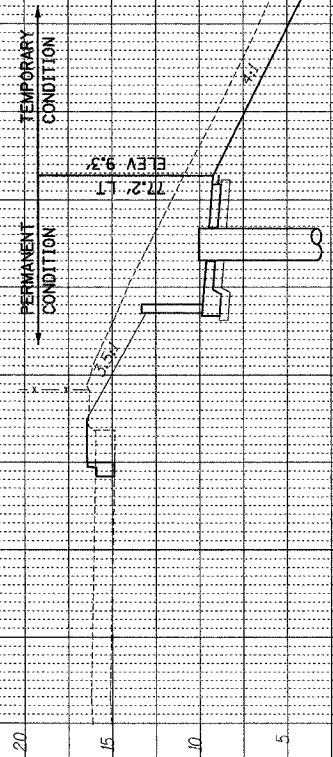
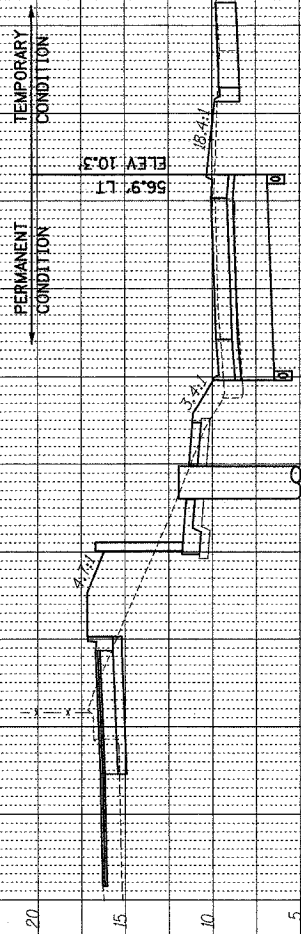


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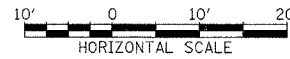
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PROFILE SURVEYED	BY	DATE
POINTS CHECKED		
S.M. NOTES		
NOTE BOOK NO.		
STRUCTURE NOTARY #		

FOR INFORMATION ONLY: CROSS SECTIONS FROM 3583+82.40 TO 3591+82.30 BY OTHERS (CONTRACT 62585)



CONTRACT 62585



NOTE: TRANSITION BACKSLOPE TO 3:1 AS IT ROTATES OUTWARD.

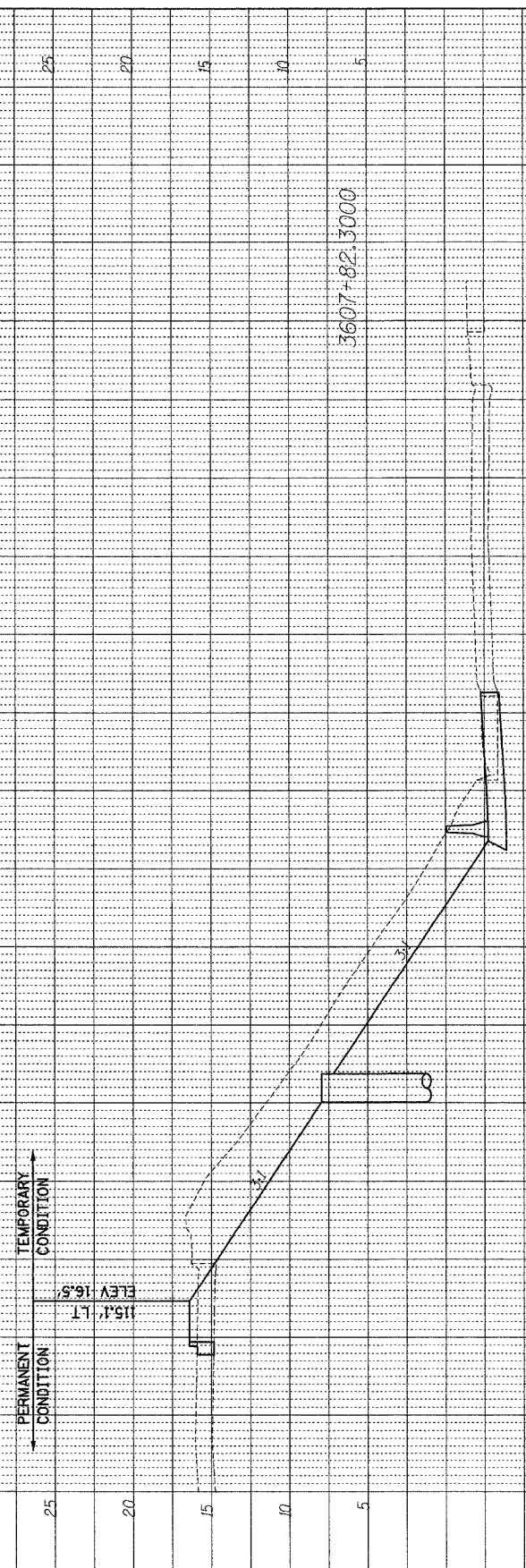
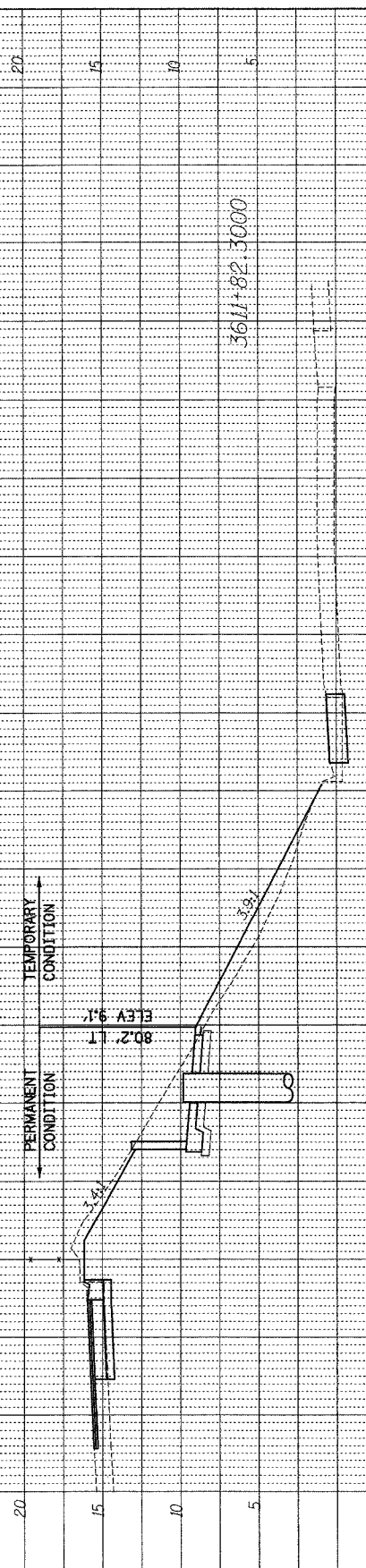
EARTHWORK QUANTITIES: SF  
EXCAVATION = 15.4  
UNSUITABLE = 15.3

EARTHWORK QUANTITIES: SF  
EXCAVATION = 26.8  
UNSUITABLE = 16.2

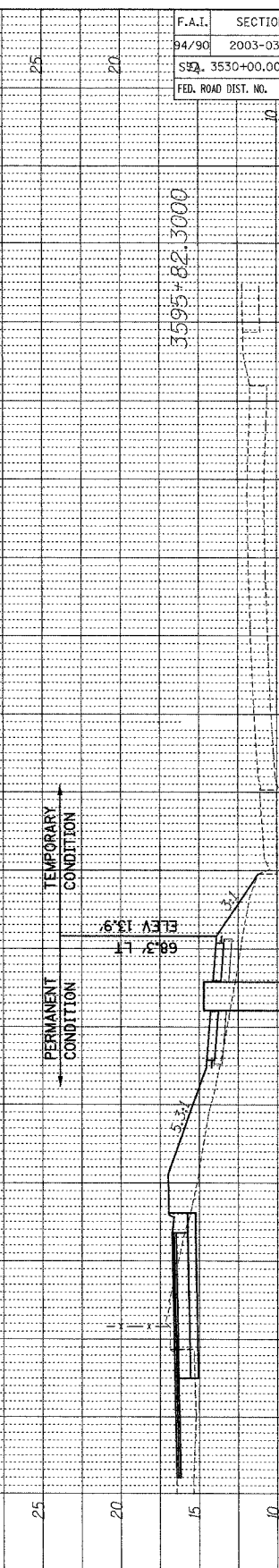
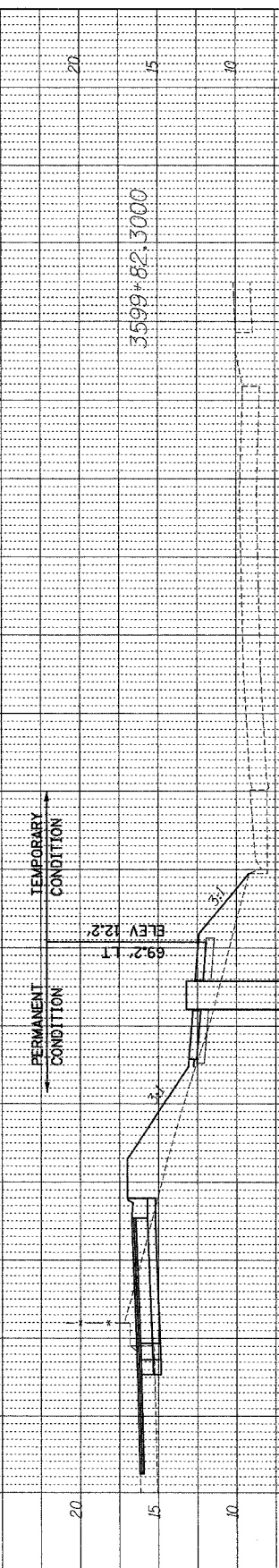
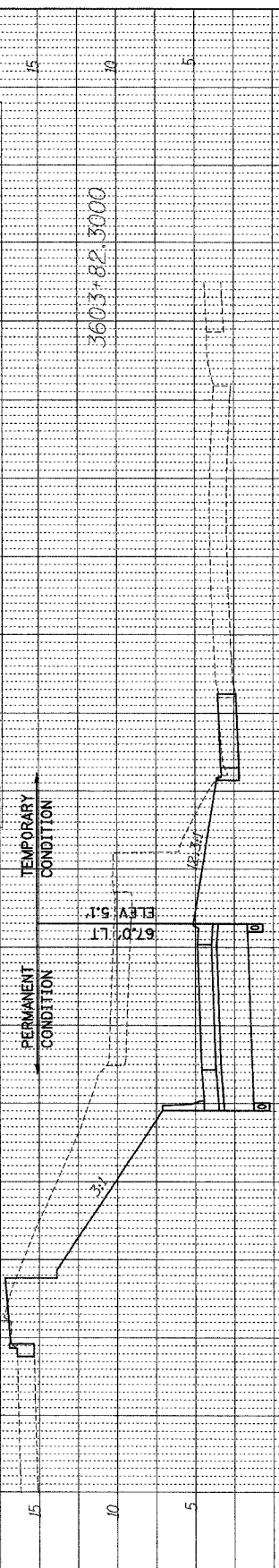
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
84/90	2003-0311	COOK	976	586
STA. 3530+00.00		TO STA. 3637+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		62585		

PROFILE	SKETCHED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	REVISIONS		
	STRUCTURE	NOTATION	CHD

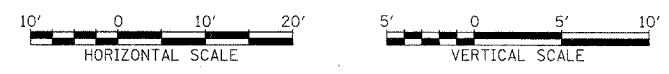
FOR INFORMATION ONLY: ALL CROSS SECTIONS ON THIS SHEET BY OTHERS (CONTRACT 62585)



PROPOSED HIGH MAST LIGHT TOWER AT 3603+82.30 TO BE RETAINING WALL MOUNTED



F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0311	COOK	976	587
STA. 3530+00.00	TO STA. 3637+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		62583



PROFILE SURVEYED	BY	DATE
NOTE BOOK NO.		
STRUCTURE NOTATION GRID		

FOR INFORMATION ONLY: ALL CROSS SECTIONS ON THIS SHEET BY OTHERS (CONTRACT 62585)

PROPOSED HIGH MAST LIGHT TOWERS AT 3616+38.3 AND 3633+85.30 TO BE RETAINING WALL MOUNTED

3633+85.3000

PERMANENT CONDITION

TEMPORARY CONDITION

63.6' LT  
ELEV 5.2'

3629+62.3000

PERMANENT CONDITION

TEMPORARY CONDITION

114.5' LT  
ELEV 14.8'

3625+22.3000

PERMANENT CONDITION

TEMPORARY CONDITION

113.7' LT  
ELEV 15.1'

3620+82.3000

PERMANENT CONDITION

TEMPORARY CONDITION

121' LT  
ELEV 8.1'

3616+38.3000

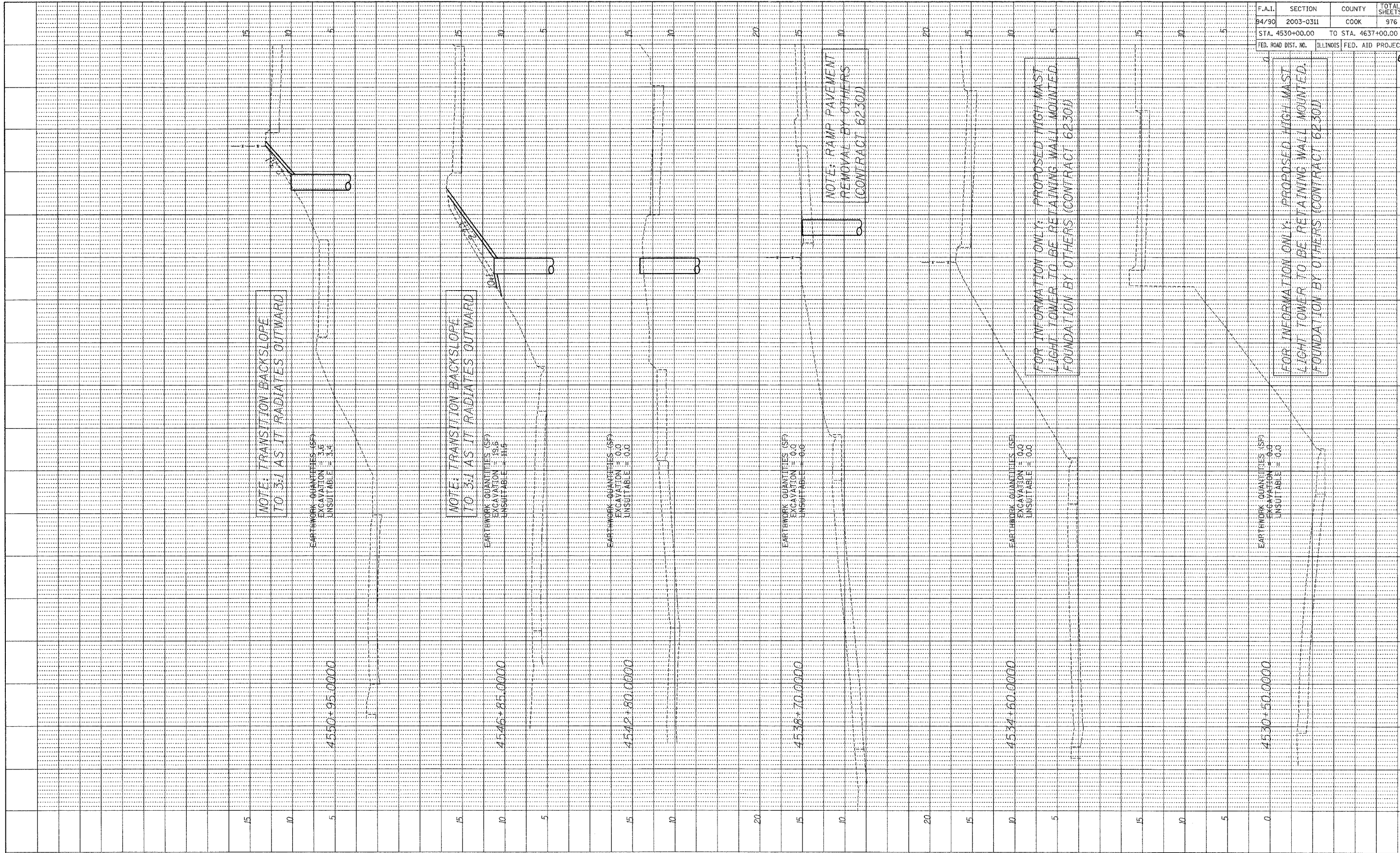
PROPOSED HIGH MAST LIGHT TOWERS AT 3616+38.3 AND 3633+85.30 TO BE RETAINING WALL MOUNTED



F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0311	COOK	976	688
STA. 3530+00.00		TO STA. 3637+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		62583		



PROFILE SURVEYED	BY	DATE
PLANS CHECKED		
NOTE BOOK		
NO.		
STRUCTURE INDICATES CHNO		



F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0311	COOK	976	589
STA. 4530+00.00		TO STA. 4637+00.00		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

XS07

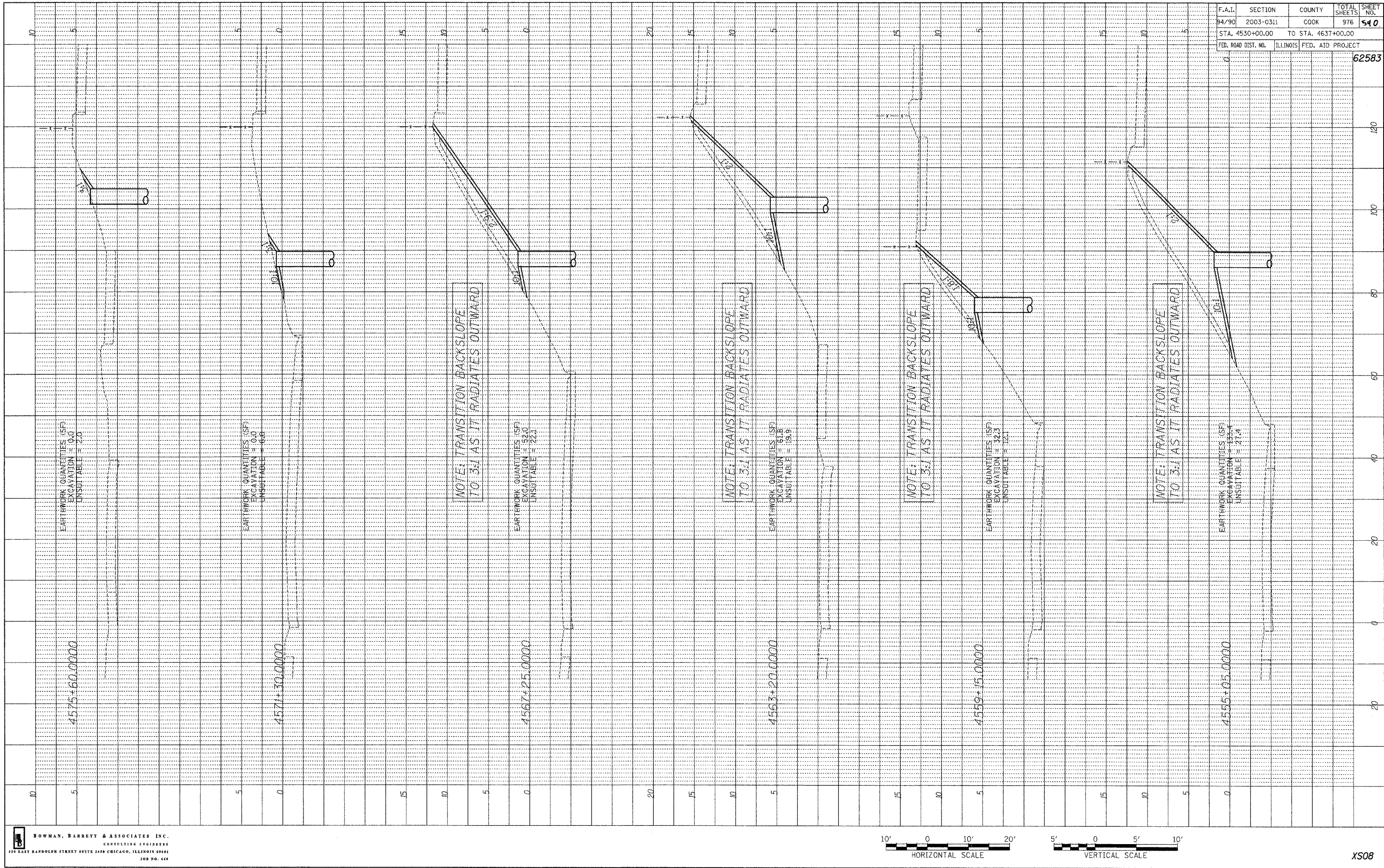


**BOWMAN, BARRETT & ASSOCIATES INC.**  
CONSULTING ENGINEERS  
134 EAST RANDOLPH STREET SUITE 1400 CHICAGO, ILLINOIS 60601  
JOB NO. 668

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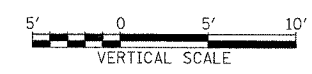
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PROFILE SURVEYED BY DATE  
 GRADES CHECKED NO. NO. DATE  
 NOTE BOOK NO. STRUCTURE DATUMS CHVD



F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0311	COOK	976	540
STA. 4530+00.00	TO STA. 4637+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	62583	

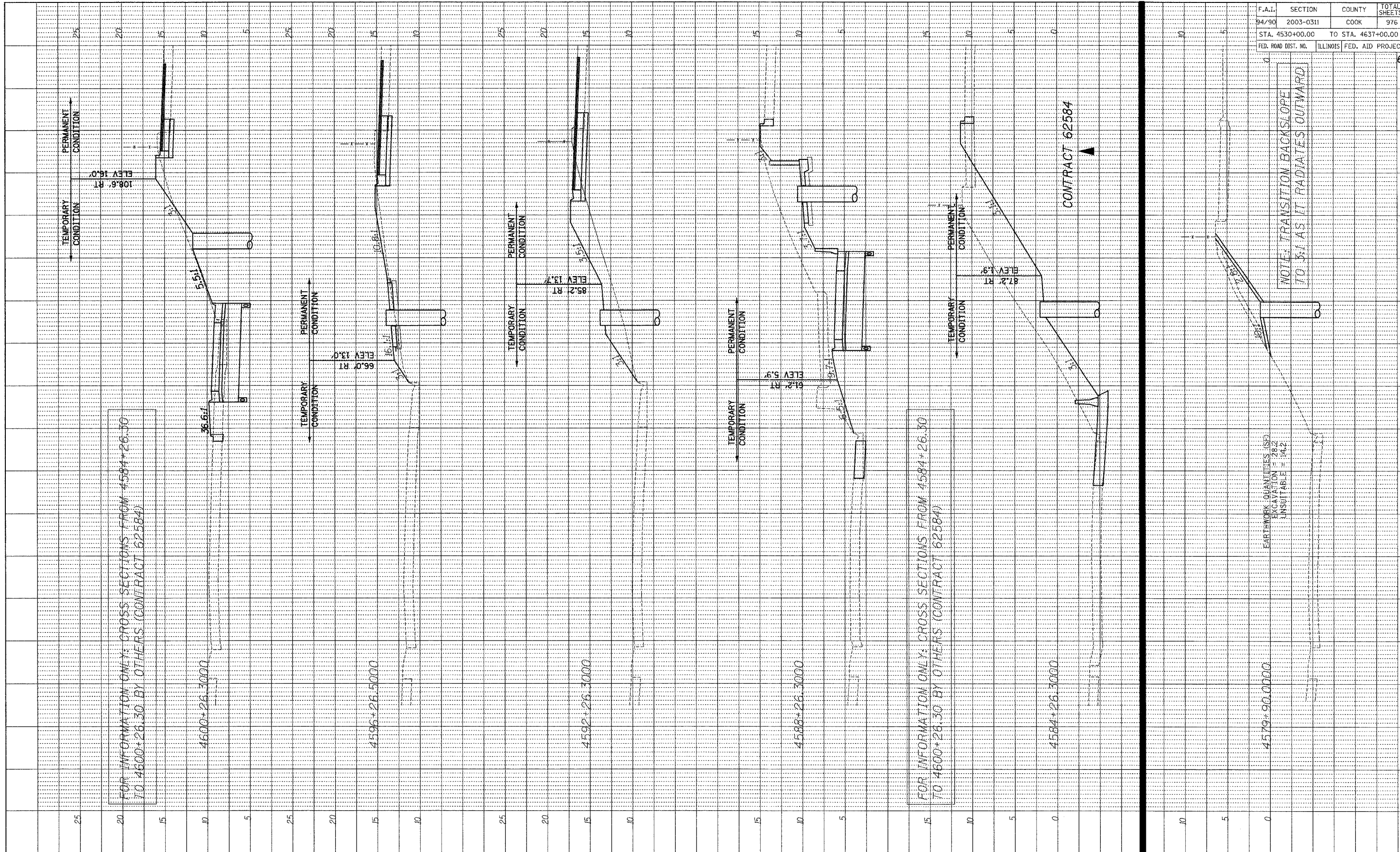
**BOWMAN, BARRETT & ASSOCIATES INC.**  
 CONSULTING ENGINEERS  
 124 EAST RANDOLPH STREET SUITE 2150 CHICAGO, ILLINOIS 60601  
 JOB NO. 659



XS08

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PROFILE SURVEYED BY DATE  
 PLOTTED CHECKED  
 NOTE BOOK NO. NOTED  
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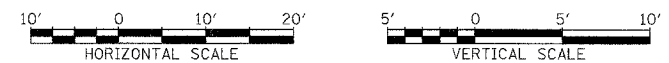


FOR INFORMATION ONLY: CROSS SECTIONS FROM 4584+26.30 TO 4600+26.30 BY OTHERS (CONTRACT 62584)

FOR INFORMATION ONLY: CROSS SECTIONS FROM 4584+26.30 TO 4600+26.30 BY OTHERS (CONTRACT 62584)

EARTHWORK QUANTITIES (87)  
 EXCAVATION = 28.2  
 UNSUITABLE = 14.2

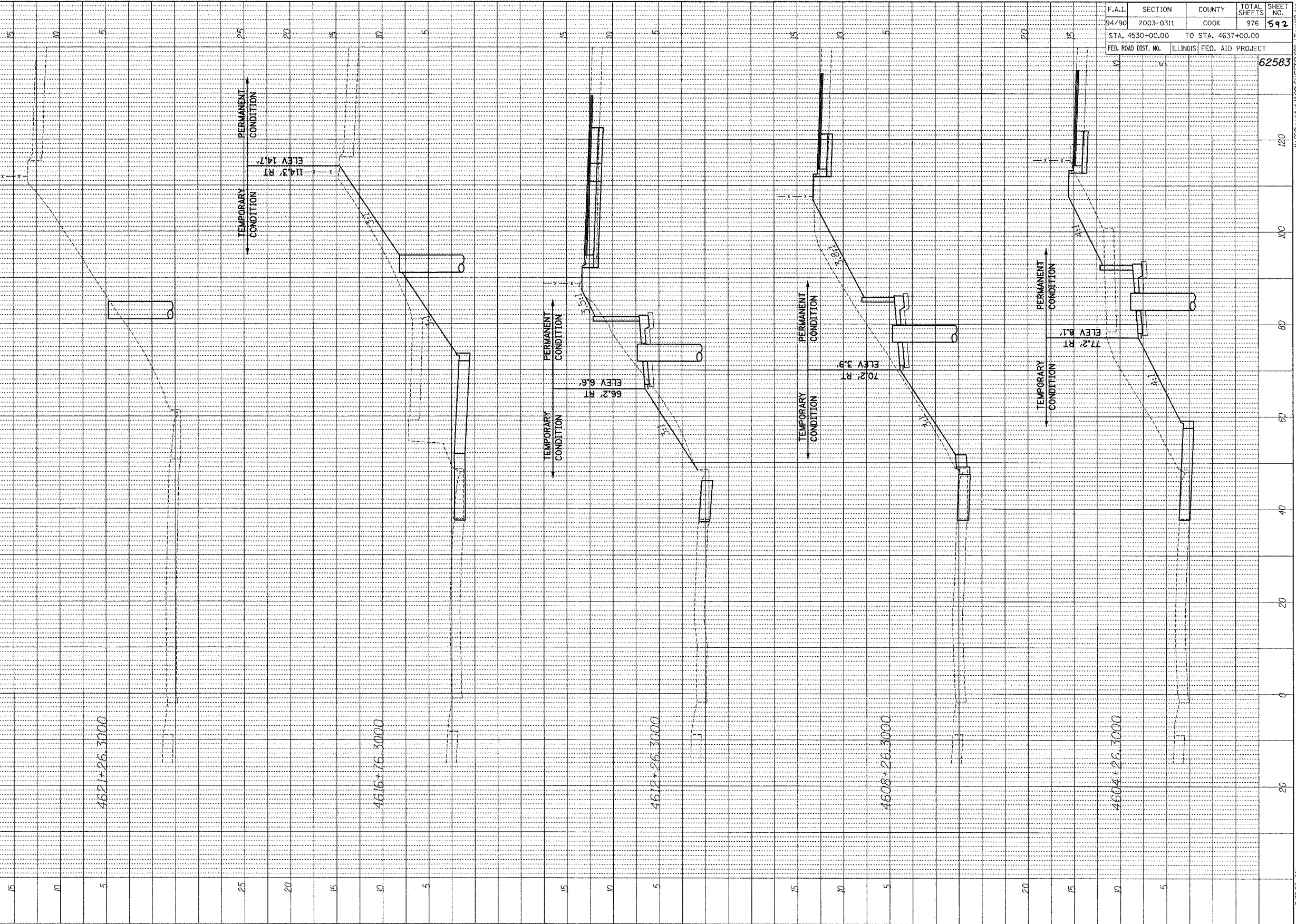
NOTE: TRANSITION BACKSLOPE TO 3:1 AS IT RADIATES OUTWARD



F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0311	COOK	976	541
STA. 4530+00.00		TO STA. 4637+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		62583		

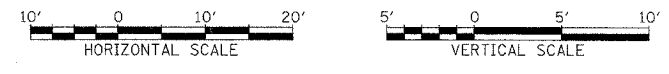
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 NOTE BOOK NO. \_\_\_\_\_  
 STRUCTURE NOTATION CHFD

FOR INFORMATION ONLY: ALL CROSS SECTIONS ON THIS SHEET BY OTHERS (CONTRACT 62584)



F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0311	COOK	976	592
STA. 4530+00.00	TO STA. 4637+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
			62583	

**BOWMAN, BARRETT & ASSOCIATES INC.**  
 CONSULTING ENGINEERS  
 139 EAST RANDOLPH STREET SUITE 2450 CHICAGO, ILLINOIS 60601  
 JOB NO. 668

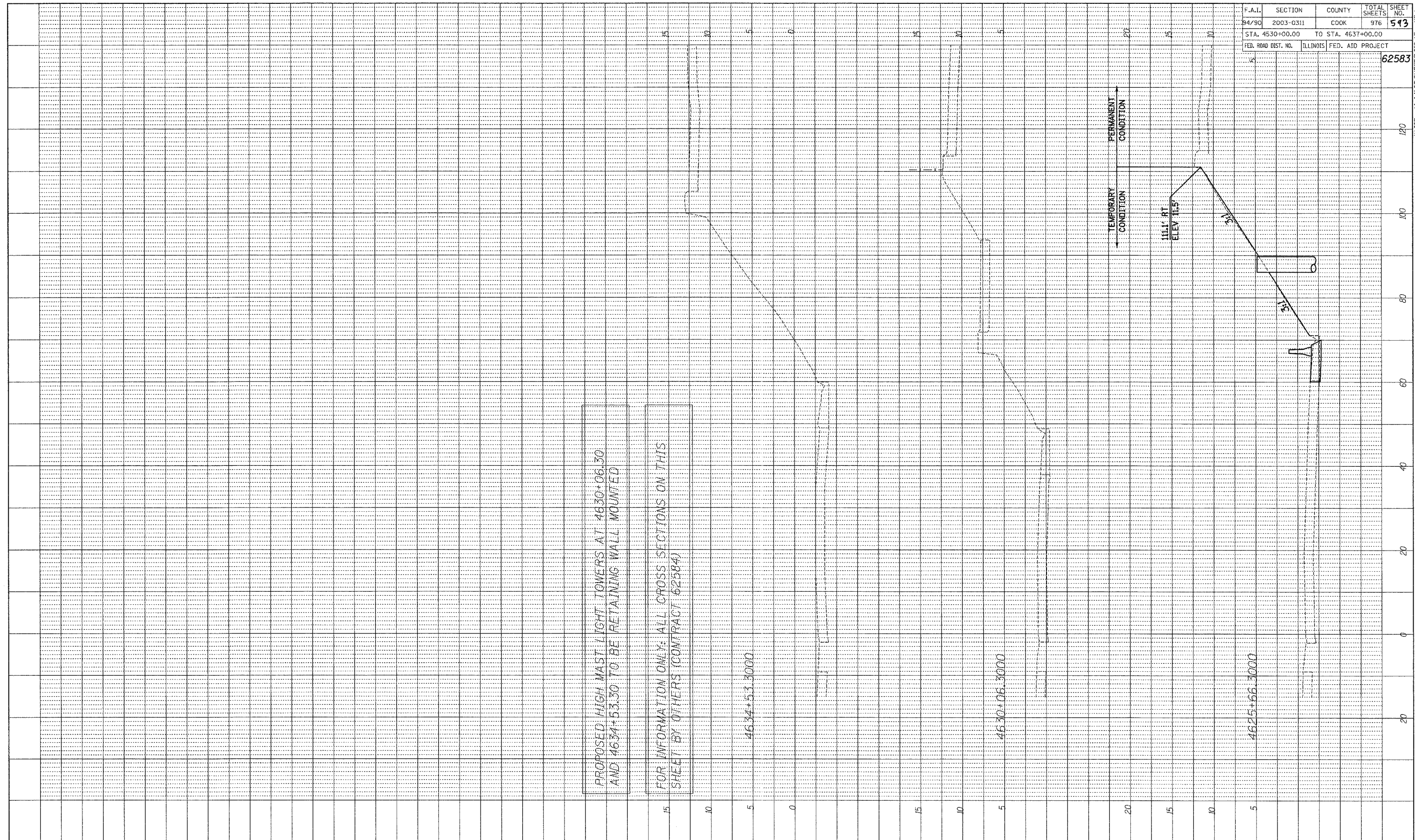


XS10

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PROFILE SURVEYED	BY	DATE
NOTED		
STRUCTURE NOTATIONS CROD		

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0311	COOK	976	519
STA. 4530+00.00		TO STA. 4637+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		62583		



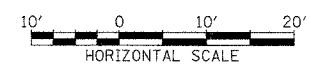
PROPOSED HIGH MAST LIGHT TOWERS AT 4630+06.30 AND 4634+53.30 TO BE RETAINING WALL MOUNTED

FOR INFORMATION ONLY: ALL CROSS SECTIONS ON THIS SHEET BY OTHERS (CONTRACT 62584)

4634+53.3000

4630+06.3000

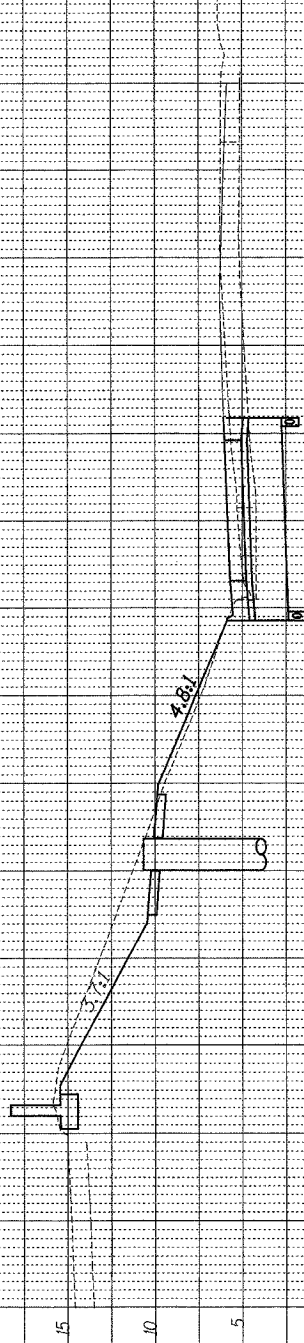
4625+66.3000



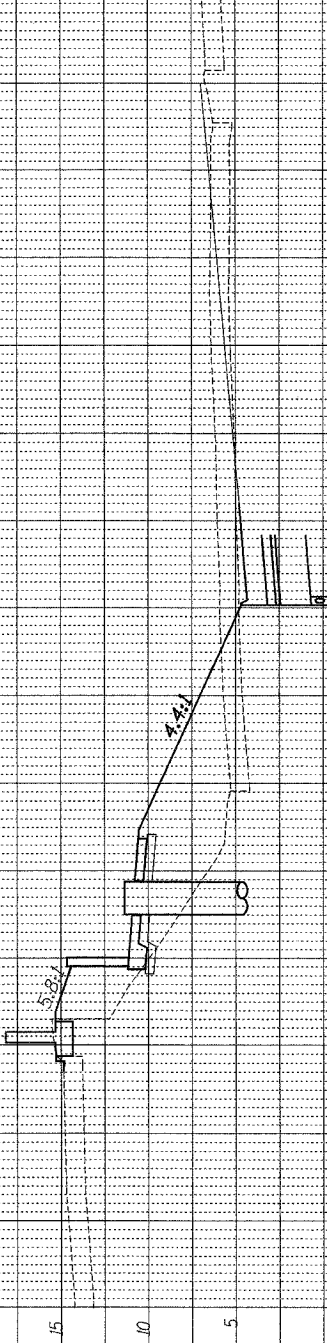
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 PLAN CHECKED BY  
 NOTE BOOK NO. STRUCTURE NOTATION CIPRO

FOR INFORMATION ONLY: FINAL 2008 CONDITIONS SHOWN. ALL CROSS SECTIONS ON THIS SHEET BY OTHERS (CONTRACT 62303)

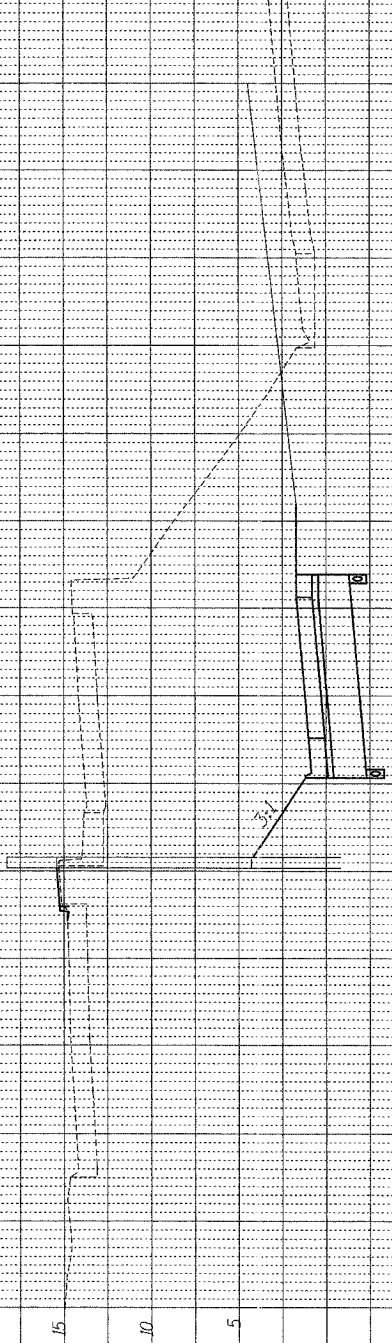
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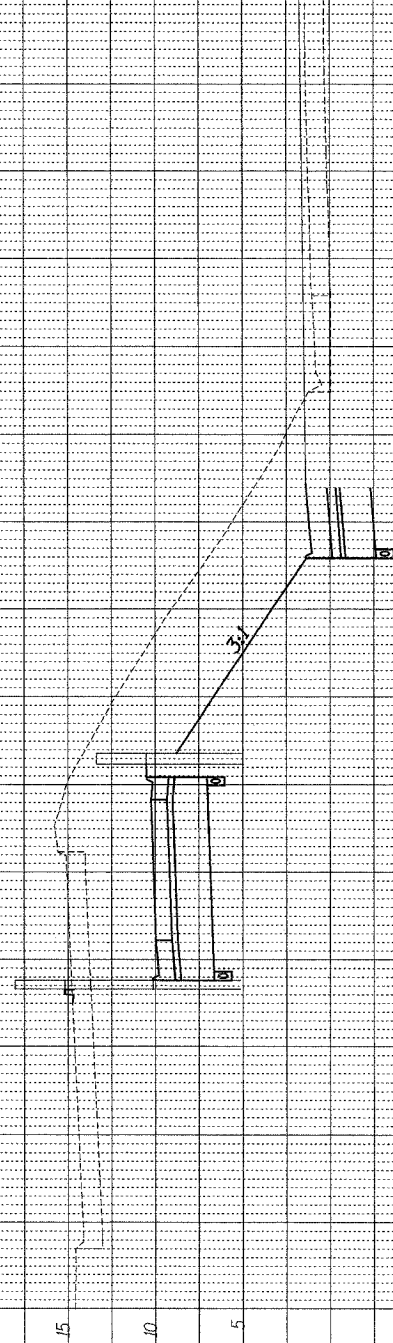
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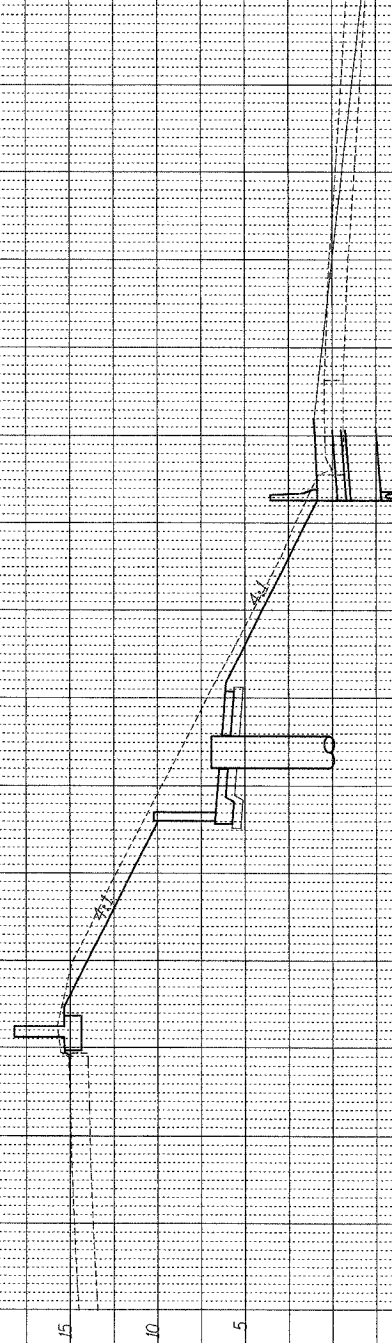
3538+35.0000



3534+30.0000



3530+20.0000



F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0311	COOK	976	544
STA. 3530+00.00		TO STA. 3637+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		62583		

**BOWMAN, BARRETT & ASSOCIATES INC.**  
 CONSULTING ENGINEERS  
 137 EAST RANDOLPH STREET SUITE 1650 CHICAGO, ILLINOIS 60601  
 JOB NO. 644



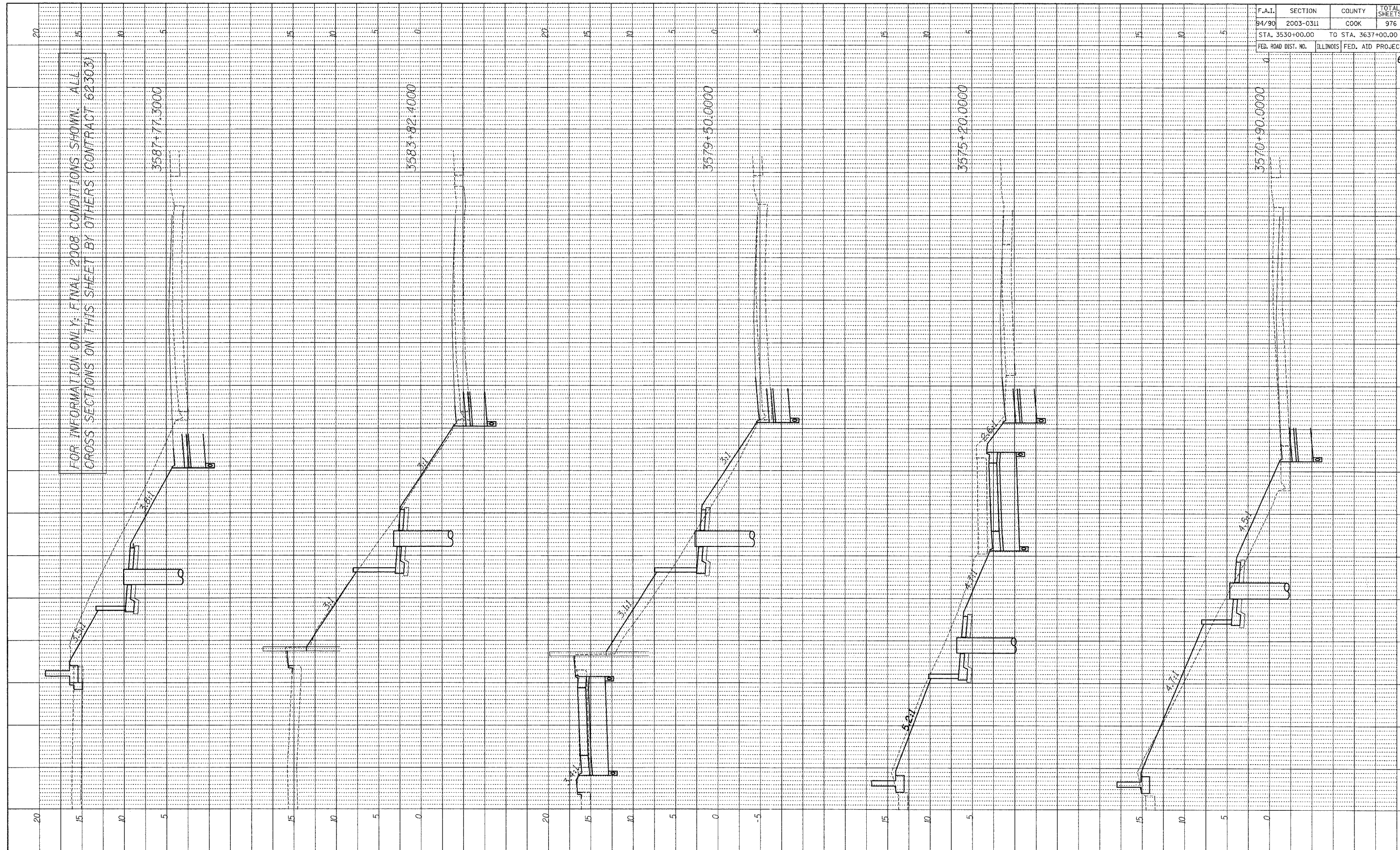
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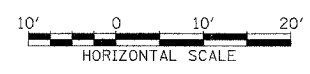
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NOTE BOOK	GRADES CHECKED		
No.	STRUCTURE NOTATION SKETCH		



FOR INFORMATION ONLY: FINAL 2008 CONDITIONS SHOWN. ALL CROSS SECTIONS ON THIS SHEET BY OTHERS (CONTRACT 62303)

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0311	COOK	976	516
STA. 3530+00.00		TO STA. 3637+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	62583	

**BOWMAN, BARRETT & ASSOCIATES INC.**  
CONSULTING ENGINEERS  
120 EAST RANDOLPH STREET SUITE 2050 CHICAGO, ILLINOIS 60601  
JOB NO. 648



XS14

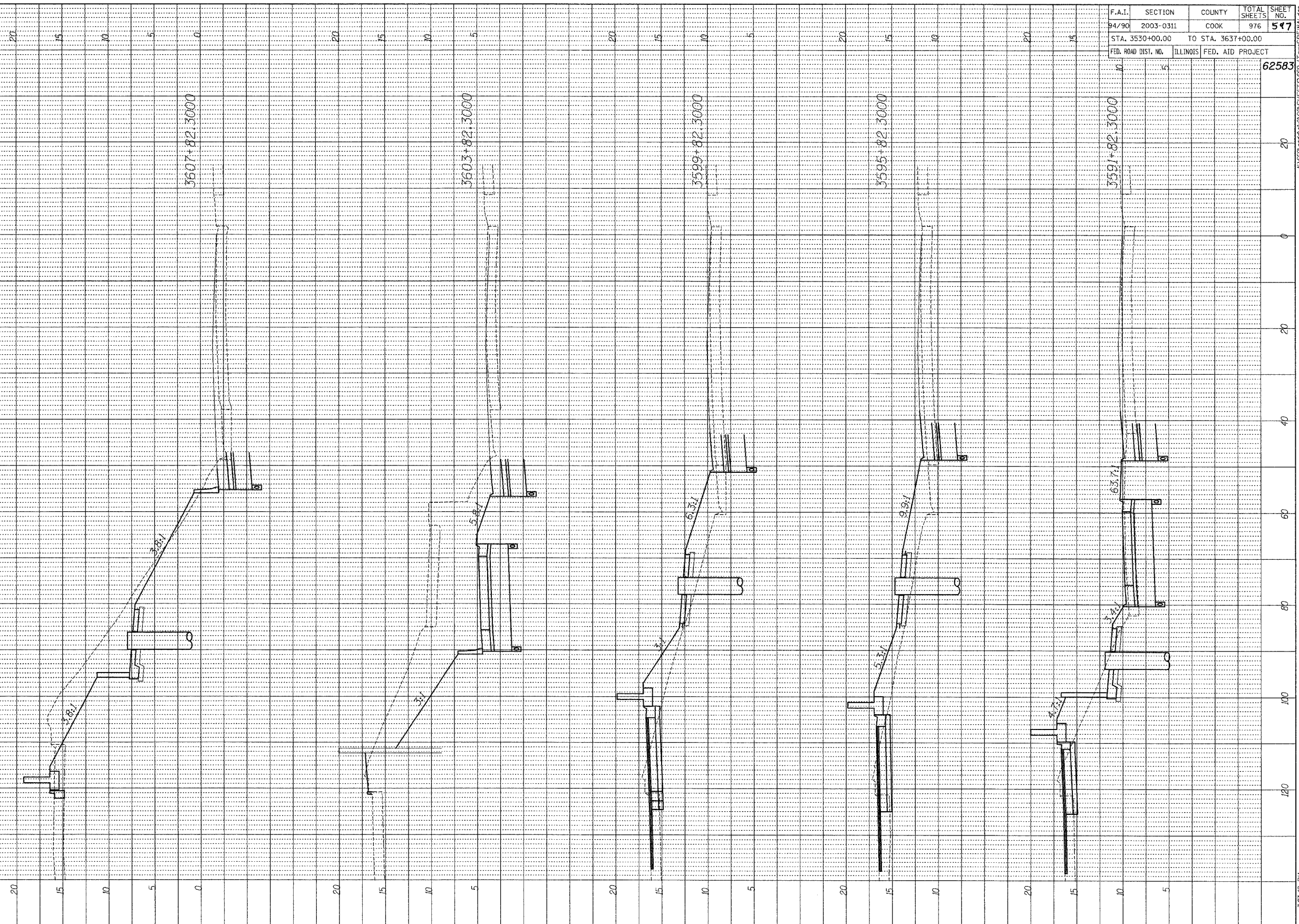
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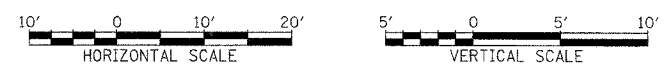
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PLANS CHECKED		
NOTE BOOK		
NO.		
STRUCTURE NOTATION		

FOR INFORMATION ONLY: FINAL 2008 CONDITIONS SHOWN. ALL CROSS SECTIONS ON THIS SHEET BY OTHERS (CONTRACT 62303)



F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0311	COOK	976	517
STA. 3530+00.00		TO STA. 3637+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	62583	

**B** HOWMAN, BARRETT & ASSOCIATES INC.  
CONSULTING ENGINEERS  
124 EAST RANDOLPH STREET SUITE 2659 CHICAGO, ILLINOIS 60601  
JOB NO. 668



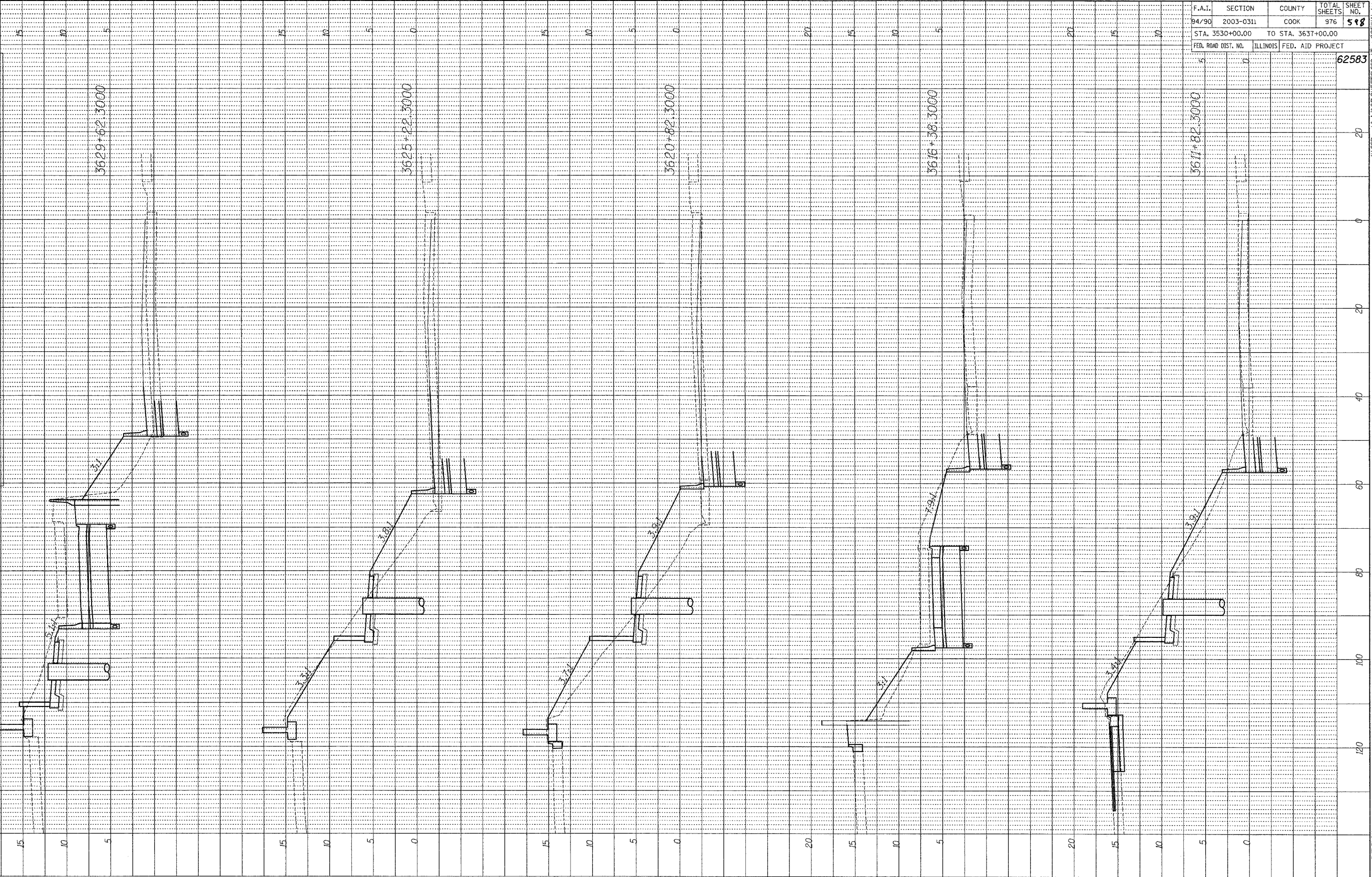
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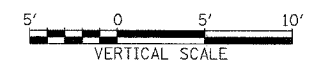
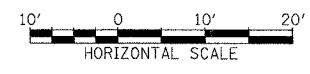
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BY	
REVISIONS	
NO.	
DESCRIPTION	
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BY	
DATE	
BY	
DATE	

FOR INFORMATION ONLY: FINAL 2008 CONDITIONS SHOWN. ALL CROSS SECTIONS ON THIS SHEET BY OTHERS (CONTRACT 62303)



F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0311	COOK	976	518
STA. 3530+00.00	TO STA. 3637+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
5	0		62583	

**HOWMAN, BARRETT & ASSOCIATES INC.**  
CONSULTING ENGINEERS  
134 EAST RANDOLPH STREET SUITE 2650 CHICAGO, ILLINOIS 60601  
JOB NO. 668



XS16

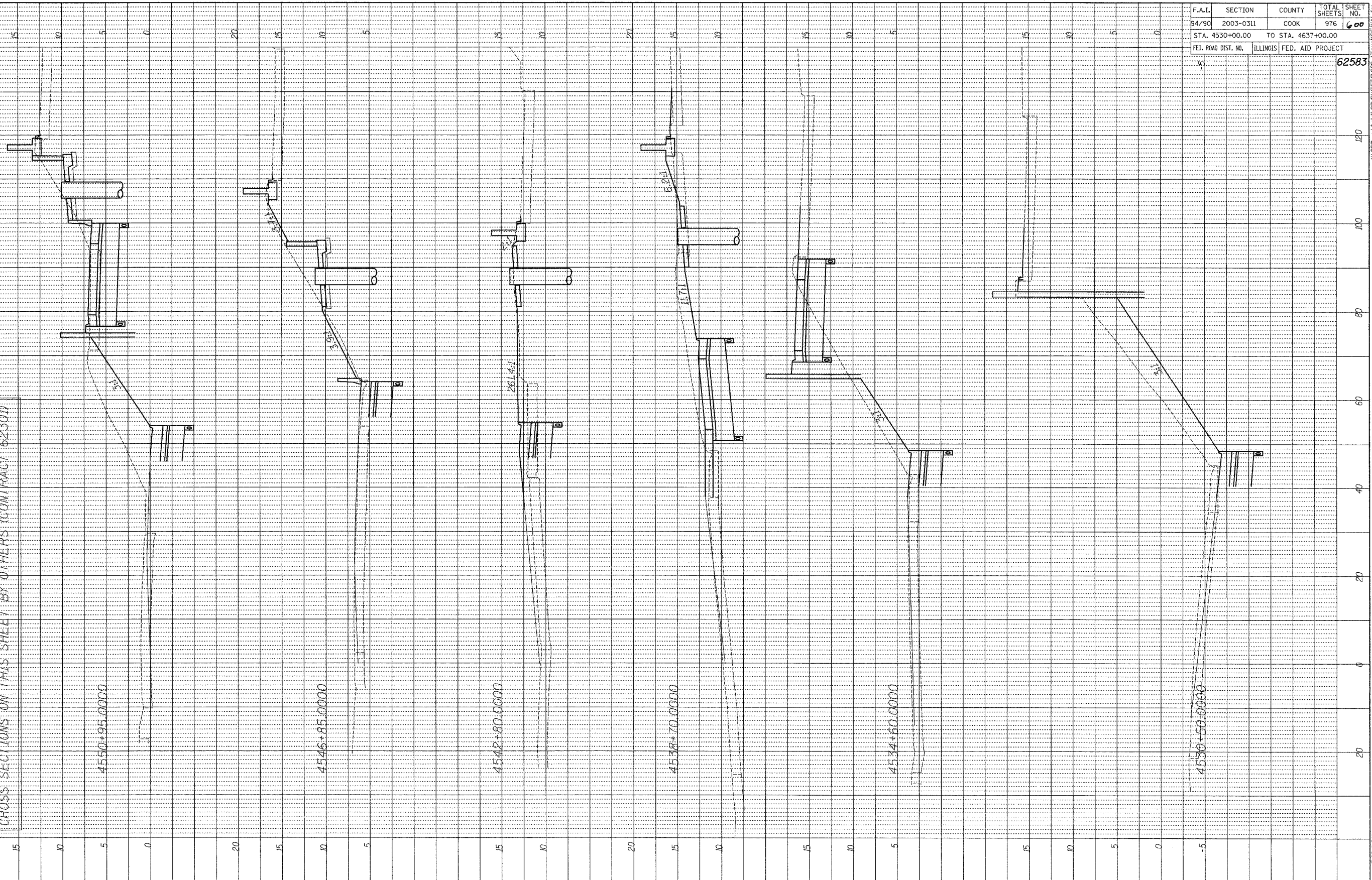
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PROFILE SURVEYED	BY	DATE
PLANS CHECKED		
NOTE BOOK		
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FOR INFORMATION ONLY: FINAL 2008 CONDITIONS SHOWN. ALL CROSS SECTIONS ON THIS SHEET BY OTHERS (CONTRACT 62307)



F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
84/90	2003-0311	COOK	976	600
STA. 4530+00.00		TO STA. 4637+00.00		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		62583	

**HOWMAN, BARRETT & ASSOCIATES INC.**  
CONSULTING ENGINEERS  
134 EAST RANDOLPH STREET SUITE 300 CHICAGO, ILLINOIS 60601  
312.467.4400



XS18

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