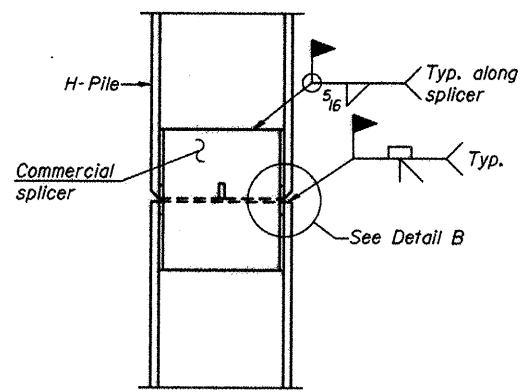
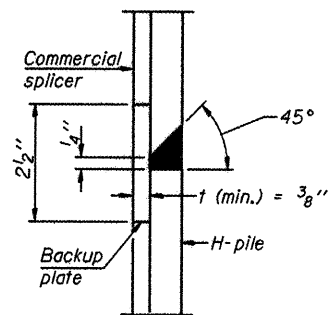


STEEL PILE TABLE

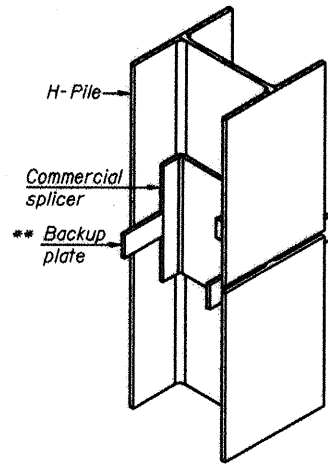
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 5/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

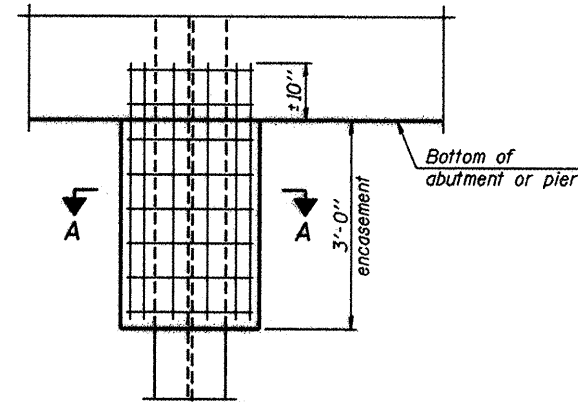


DETAIL "B"

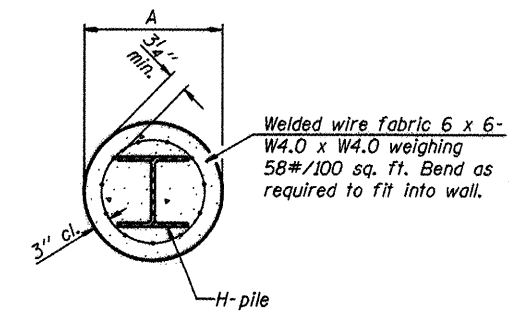


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



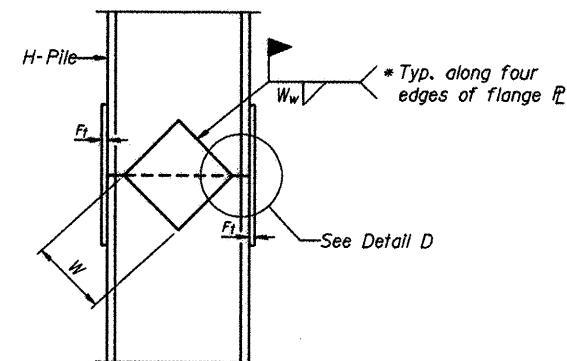
ELEVATION



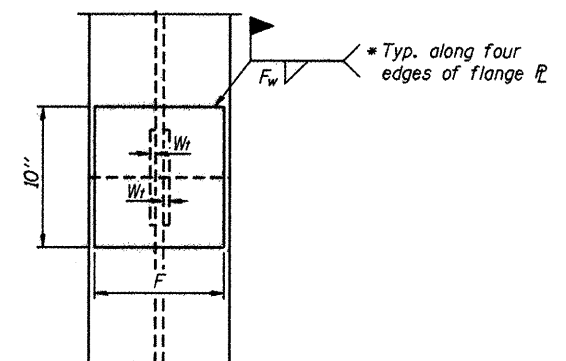
SECTION A-A

Note:
Forms for encasement may be omitted when soil conditions permit.

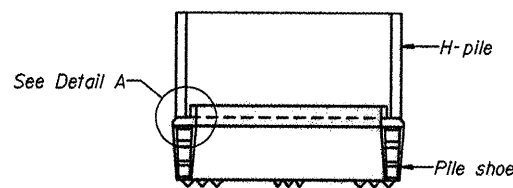
PILE ENCASEMENT



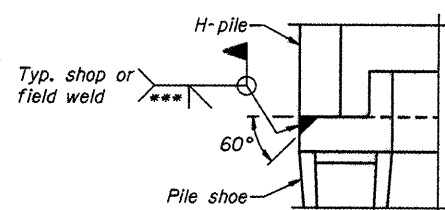
ELEVATION



END VIEW

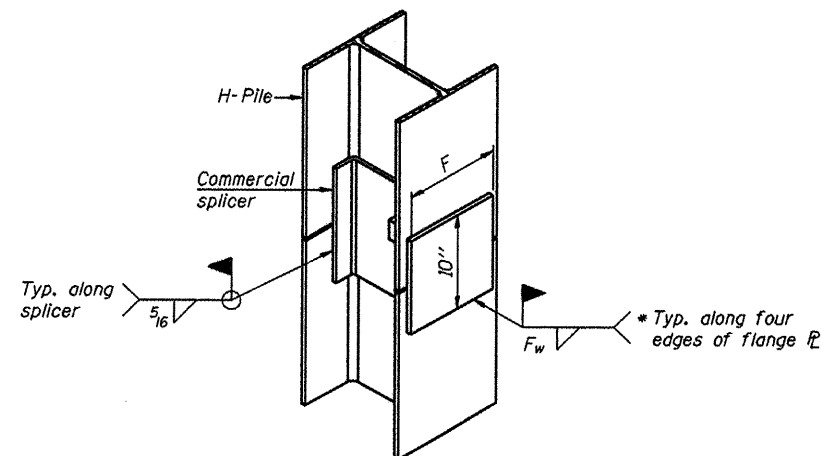


ELEVATION



DETAIL A

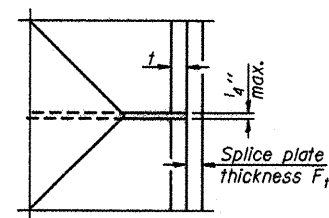
H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).



DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 1/2"	1 1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 1/2"	1 1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5 1/2"	1 1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 1/2"	1 1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5 1/2"	1 1/2"
x74	10"	7/8"	1/16"	6 1/2"	5 1/2"	1 1/2"
x63	10"	5/8"	1/2"	6 1/2"	1 1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1 1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1 1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1 1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1 1/2"	3/8"

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

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F-HP 7-1-10



HNTB

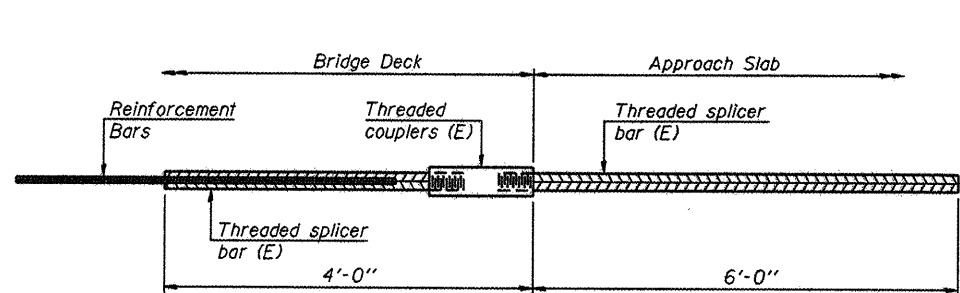
DESIGNED - PA, JDJ, BPD, CJW	REVISED -
DRAWN - GLD	REVISED -
CHECKED - RJK	REVISED -
DATE - 02/04/2011	REVISED -

**CITY OF ROCKFORD
MORGAN STREET BRIDGE**

**PIILING DETAILS
STRUCTURE NO. 101-6108**

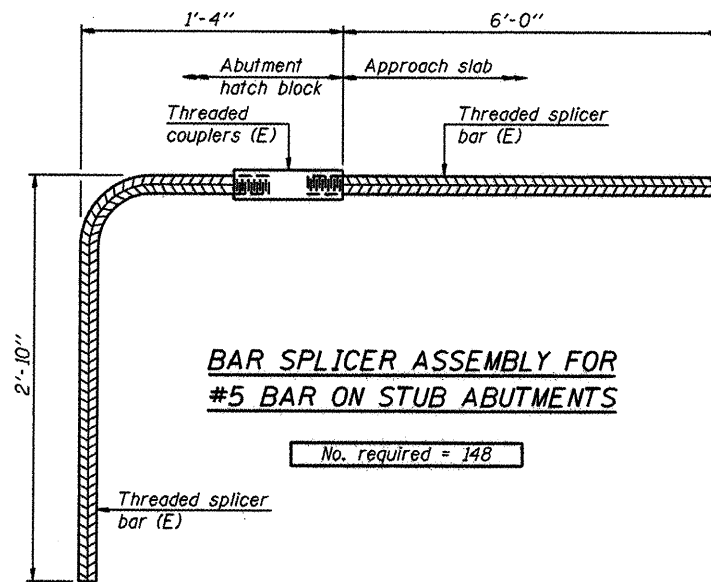
SCALE: SHEET NO. 75 OF 79 SHEETS STA. 47+00.74 TO STA. 52+63.50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	201
CONTRACT NO. 85529			FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRN-509965	



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required = 0



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

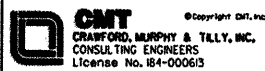
No. required = 148

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See special provision for Mechanical Splicers.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

L:\RDC\000\082682\Drawings\CADD\Sheets\S.76.Bar Splicer-Details.dgn

BSD-1 7-1-10



DESIGNED - PA, JDJ, BPD, CJW	REVISED -
DRAWN - GLD	REVISED -
CHECKED - RJK	REVISED -
DATE - 02/04/2011	REVISED -

**CITY OF ROCKFORD
MORGAN STREET BRIDGE**

**BAR SPLICER DETAILS
STRUCTURE NO. 101-6108**

SCALE: SHEET NO. 76 OF 79 SHEETS STA. 47+00.74 TO STA. 52+63.50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	202
FED. ROAD DIST. NO. 2 ILLINOIS			CONTRACT NO. 85529	
FED. AID PROJECT BRM-509965				

SB-5

Testing Service Corporation
STRUCTURE BORING LOG

Page 3 of 3
Date Started 5/14/07
Date Completed 5/14/07

STRUCTURE NO. 101-6132
ROUTE FAU 5077
SECTION 99-00493-00-BR
COUNTY Winnebago

Boring No. SB-5
Station 5122
Offset 39.00 ft RT
Elevation 610.40 ft

DEPTH (ft)	BLOW COUNT (blows/ft)	SOIL DESCRIPTION	SPT (N)	B	L	W	%	Penetration Test (ft)
0-12	12	Dense to med. dense gray silty SAND, occasional clay seams, saturated	12	10	2	10	21.2	
12-10	10		10	10	0	15		
10-8	8		8	10	2	20.8		
8-6	6	Very stiff to hard brownish-gray CLAY, trace gravel, moist	6	10	2	20.8		
6-4	4		4	10	2	20.8		
4-2	2		2	10	2	20.8		
2-0	0		0	10	2	20.8		
0-8	8	Dense gray SILT, moist to very moist	8	11	2	24.1		
8-6	6		6	11	2	24.1		
6-4	4		4	11	2	24.1		
4-2	2		2	11	2	24.1		
2-0	0		0	11	2	24.1		

End of Boring at 115.0'

CME-75 Truck Rig (#256)
CME Automatic Hammer
3.25" ID HSA to 43.0'
Rotary Wash Drill below 43.0'

SPT, (N) = Sum of last two blow values in sample. (Qu) B=Bludge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

SB-6

Testing Service Corporation
STRUCTURE BORING LOG

Page 2 of 3
Date Started 5/14/07
Date Completed 5/14/07

STRUCTURE NO. 101-6132
ROUTE FAU 5077
SECTION 99-00493-00-BR
COUNTY Winnebago

Boring No. SB-6
Station 5122
Offset 22.00 ft LT
Elevation 654.50 ft

DEPTH (ft)	BLOW COUNT (blows/ft)	SOIL DESCRIPTION	SPT (N)	B	L	W	%	Penetration Test (ft)
0-4	4	Loose brown SAND and GRAVEL, saturated	4	7	4	9.6		
4-7	7		7	7	4	9.6		
7-8	8		8	7	4	9.6		
8-10	10	Loose brown fine SAND, saturated	10	3	24.8			
10-12	12		12	3	24.8			
12-15	15	Very stiff gray CLAY LOAM, trace gravel, moist	15	11	3.4	13.7		
15-17	17		17	11	3.4	13.7		
17-20	20		20	11	3.4	13.7		
20-23	23		23	11	3.4	13.7		
23-25	25		25	11	3.4	13.7		
25-27	27		27	11	3.4	13.7		
27-30	30		30	11	3.4	13.7		
30-32	32		32	11	3.4	13.7		
32-34	34		34	11	3.4	13.7		
34-36	36		36	11	3.4	13.7		
36-38	38		38	11	3.4	13.7		
38-40	40		40	11	3.4	13.7		
40-42	42		42	11	3.4	13.7		
42-44	44		44	11	3.4	13.7		
44-46	46		46	11	3.4	13.7		
46-48	48		48	11	3.4	13.7		
48-50	50		50	11	3.4	13.7		
50-52	52		52	11	3.4	13.7		
52-54	54		54	11	3.4	13.7		
54-56	56		56	11	3.4	13.7		
56-58	58		58	11	3.4	13.7		
58-60	60		60	11	3.4	13.7		
60-62	62		62	11	3.4	13.7		
62-64	64		64	11	3.4	13.7		
64-66	66		66	11	3.4	13.7		
66-68	68		68	11	3.4	13.7		
68-70	70		70	11	3.4	13.7		
70-72	72		72	11	3.4	13.7		
72-74	74		74	11	3.4	13.7		
74-76	76		76	11	3.4	13.7		
76-78	78		78	11	3.4	13.7		
78-80	80		80	11	3.4	13.7		
80-82	82		82	11	3.4	13.7		
82-84	84		84	11	3.4	13.7		
84-86	86		86	11	3.4	13.7		
86-88	88		88	11	3.4	13.7		
88-90	90		90	11	3.4	13.7		
90-92	92		92	11	3.4	13.7		
92-94	94		94	11	3.4	13.7		
94-96	96		96	11	3.4	13.7		
96-98	98		98	11	3.4	13.7		
98-100	100		100	11	3.4	13.7		

End of Boring at 125'

Diedrich D-120 Truck Rig (#215)
CME Automatic Hammer
Rotary Wash Drill

SPT, (N) = Sum of last two blow values in sample. (Qu) B=Bludge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

SB-7

Testing Service Corporation
STRUCTURE BORING LOG

Page 1 of 2
Date Started 5/15/07
Date Completed 5/15/07

ROUTE FAU 5077 DESCRIPTION Morgan Street Bridge, Rockford
SECT 99-00493-00-BR STRUCT. NO. 101-6132 DRILLED BY TSCJ-68482
COUNTY Winnebago LOCATION South End East Abutment S. 28th W 1st, TWP. 44N, RING. 1E

Boring No. SB-7
Station 5249
Offset 12.00 ft RT
Elevation 739.70 ft

DEPTH (ft)	BLOW COUNT (blows/ft)	SOIL DESCRIPTION	SPT (N)	B	L	W	%	Penetration Test (ft)
0-2	2	Concrete Slabwork	2	15	0	15.8		
2-4	4		4	15	0	15.8		
4-6	6		6	15	0	15.8		
6-8	8		8	15	0	15.8		
8-10	10		10	15	0	15.8		
10-12	12		12	15	0	15.8		
12-14	14		14	15	0	15.8		
14-16	16		16	15	0	15.8		
16-18	18		18	15	0	15.8		
18-20	20		20	15	0	15.8		
20-22	22		22	15	0	15.8		
22-24	24		24	15	0	15.8		
24-26	26		26	15	0	15.8		
26-28	28		28	15	0	15.8		
28-30	30		30	15	0	15.8		
30-32	32		32	15	0	15.8		
32-34	34		34	15	0	15.8		
34-36	36		36	15	0	15.8		
36-38	38		38	15	0	15.8		
38-40	40		40	15	0	15.8		
40-42	42		42	15	0	15.8		
42-44	44		44	15	0	15.8		
44-46	46		46	15	0	15.8		
46-48	48		48	15	0	15.8		
48-50	50		50	15	0	15.8		
50-52	52		52	15	0	15.8		
52-54	54		54	15	0	15.8		
54-56	56		56	15	0	15.8		
56-58	58		58	15	0	15.8		
58-60	60		60	15	0	15.8		
60-62	62		62	15	0	15.8		
62-64	64		64	15	0	15.8		
64-66	66		66	15	0	15.8		
66-68	68		68	15	0	15.8		
68-70	70		70	15	0	15.8		
70-72	72		72	15	0	15.8		
72-74	74		74	15	0	15.8		
74-76	76		76	15	0	15.8		
76-78	78		78	15	0	15.8		
78-80	80		80	15	0	15.8		
80-82	82		82	15	0	15.8		
82-84	84		84	15	0	15.8		
84-86	86		86	15	0	15.8		
86-88	88		88	15	0	15.8		
88-90	90		90	15	0	15.8		
90-92	92		92	15	0	15.8		
92-94	94		94	15	0	15.8		
94-96	96		96	15	0	15.8		
96-98	98		98	15	0	15.8		
98-100	100		100	15	0	15.8		

End of Boring at 80'

CME-75 Truck Rig (#256)
CME Automatic Hammer
Rotary Wash Drill

SPT, (N) = Sum of last two blow values in sample. (Qu) B=Bludge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

SB-8

Testing Service Corporation
STRUCTURE BORING LOG

Page 1 of 2
Date Started 5/15/07
Date Completed 5/14/07

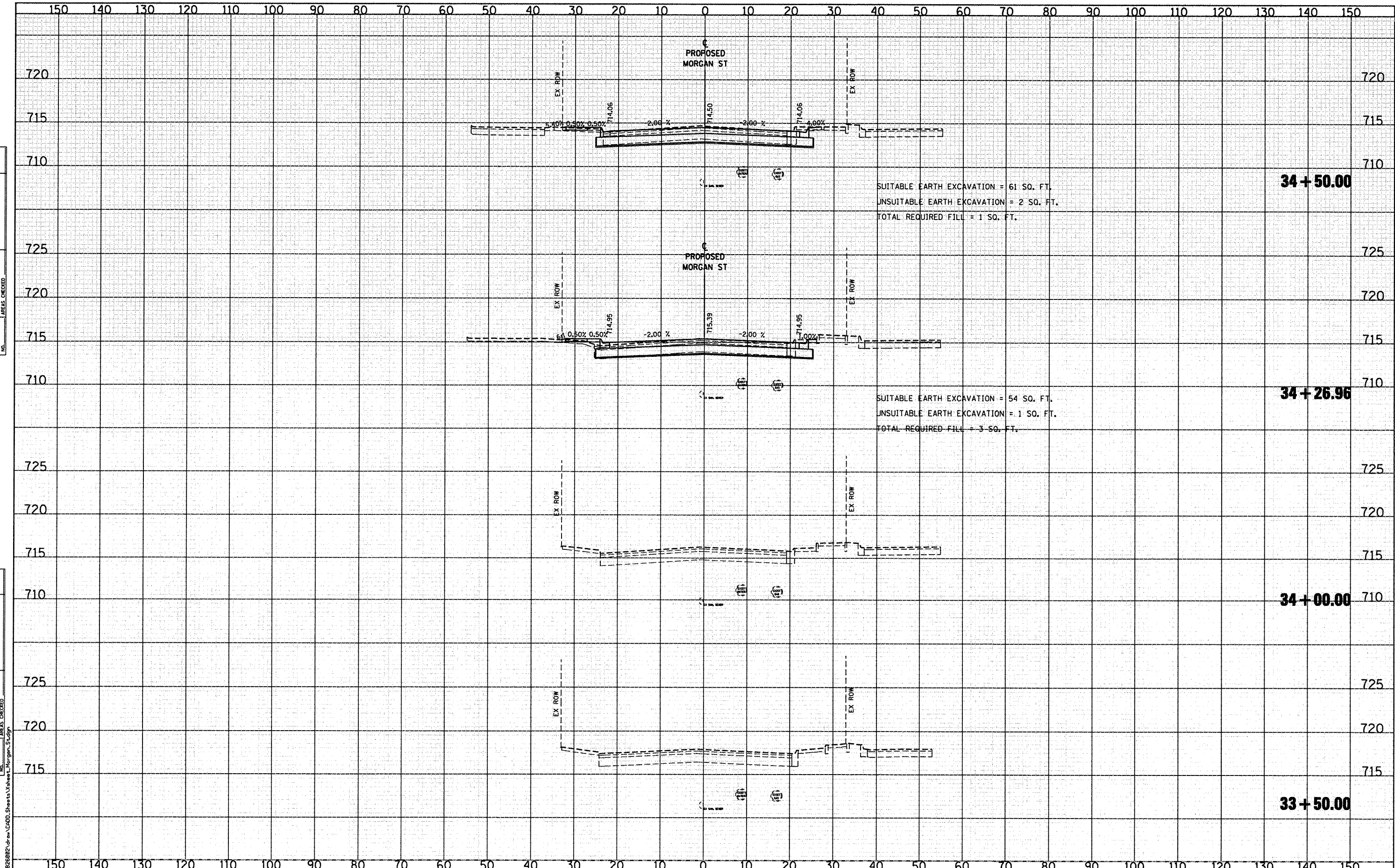
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SECT 99-00493-00-BR STRUCT. NO. 101-6132 DRILLED BY TSCJ-68482
COUNTY Winnebago LOCATION North End East Abutment S. 28th W 1st, TWP. 44N, RING. 1E

Boring No. SB-8
Station 5289
Offset 40.00 ft LT
Elevation 738.00 ft

DEPTH (ft)	BLOW COUNT (blows/ft)	SOIL DESCRIPTION	SPT (N)	B	L	W	%	Penetration Test (ft)
0-2	2	Asphalt Pavement	2	15	0	15.8		
2-4	4		4	15	0	15.8		
4-6	6		6	15	0	15.8		
6-8	8		8	15	0	15.8		
8-10	10		10	15	0	15.8		
10-12	12		12	15	0	15.8		
12-14	14		14	15	0	15.8		
14-16	16		16	15	0	15.8		
16-18	18		18	15	0	15.8		
18-20	20		20	15	0	15.8		
20-22	22		22	15	0	15.8		
22-24	24		24	15	0	15.8		
24-26	26		26	15	0	15.8		
26-28	28		28	15	0	15.8		
28-30	30		30	15	0	15.8		
30-32	32		32	15	0	15.8		
32-34	34		34	15	0	15.8		
34-36	36		36	15	0	15.8		
36-38	38		38	15	0	15.8		
38-40	40		40	15	0	15.8		
40-42	42		42	15	0	15.8		
42-44	44		44	15	0	15.8		
44-46	46		46	15	0	15.8		
46-48	48		48	15	0	15.8		
48-50	50		50	15	0	15.8		
50-52	52		52	15	0	15.8		
52-54	54		54	15	0	15.8		
54-56	56		56	15	0	15.8		
56-58	58		58	15	0	15.8		
58-60	60		60	15	0	15.8		
60-62	62		62	15	0	15.8		
62-64	64		64					

DATE	
BY	
FINAL SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

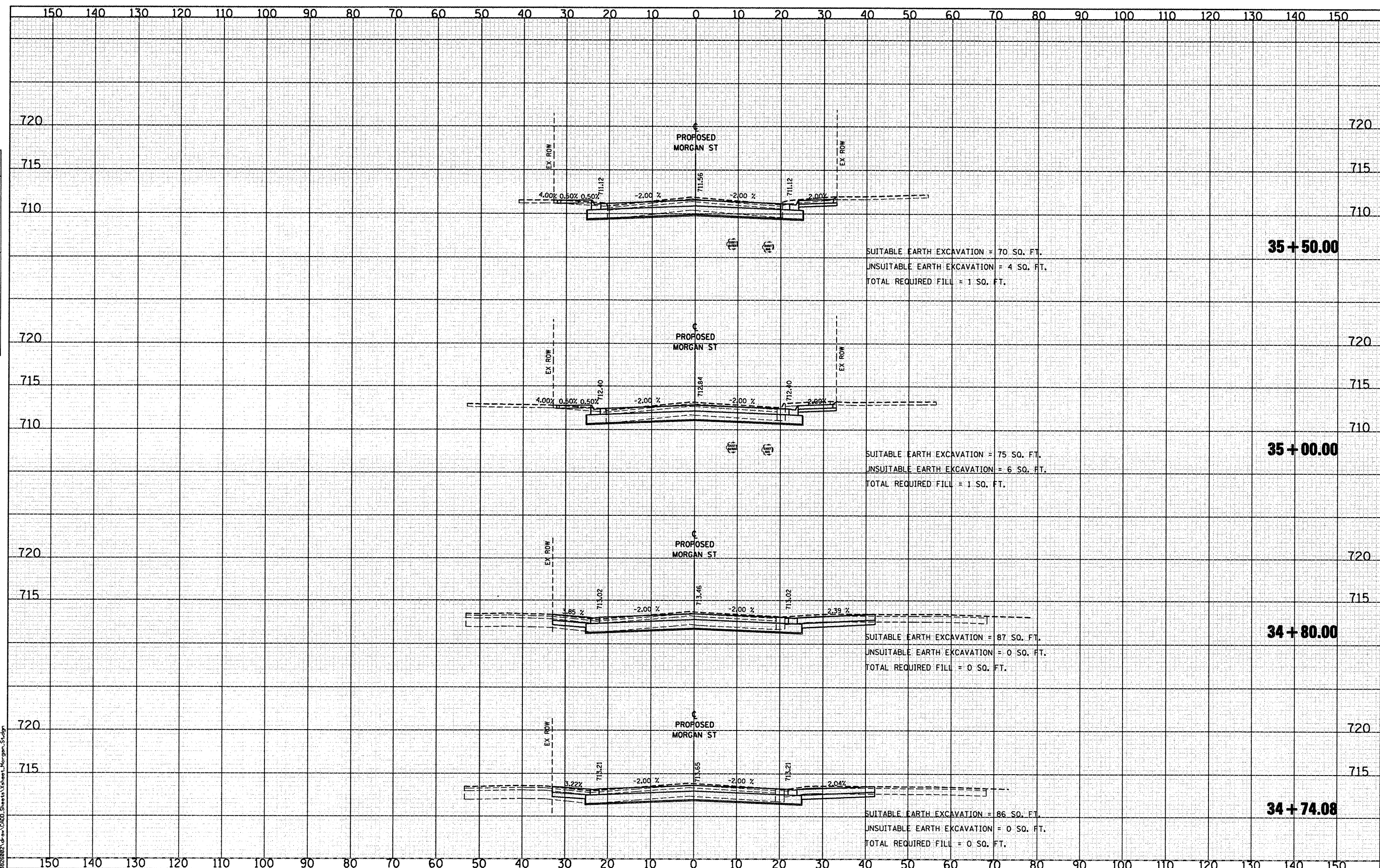
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BY	
ORIGINAL SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



CMT CRAWFORD, MURPHY & TILLY, INC. CONSULTING ENGINEERS License No. 184-000613	USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -	CITY OF ROCKFORD MORGAN STREET BRIDGE	PROPOSED CROSS SECTIONS - MORGAN STREET	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - ERD	REVISED -	5077			99-00493-00-BR	WINNEBAGO	253	206	
	PLLOT SCALE = 20,0000' / IN.	CHECKED - SJP	REVISED -			CONTRACT NO. 85529				
	PLLOT DATE = 02/04/11	DATE - 02/04/2011	REVISED -			FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-5091651				

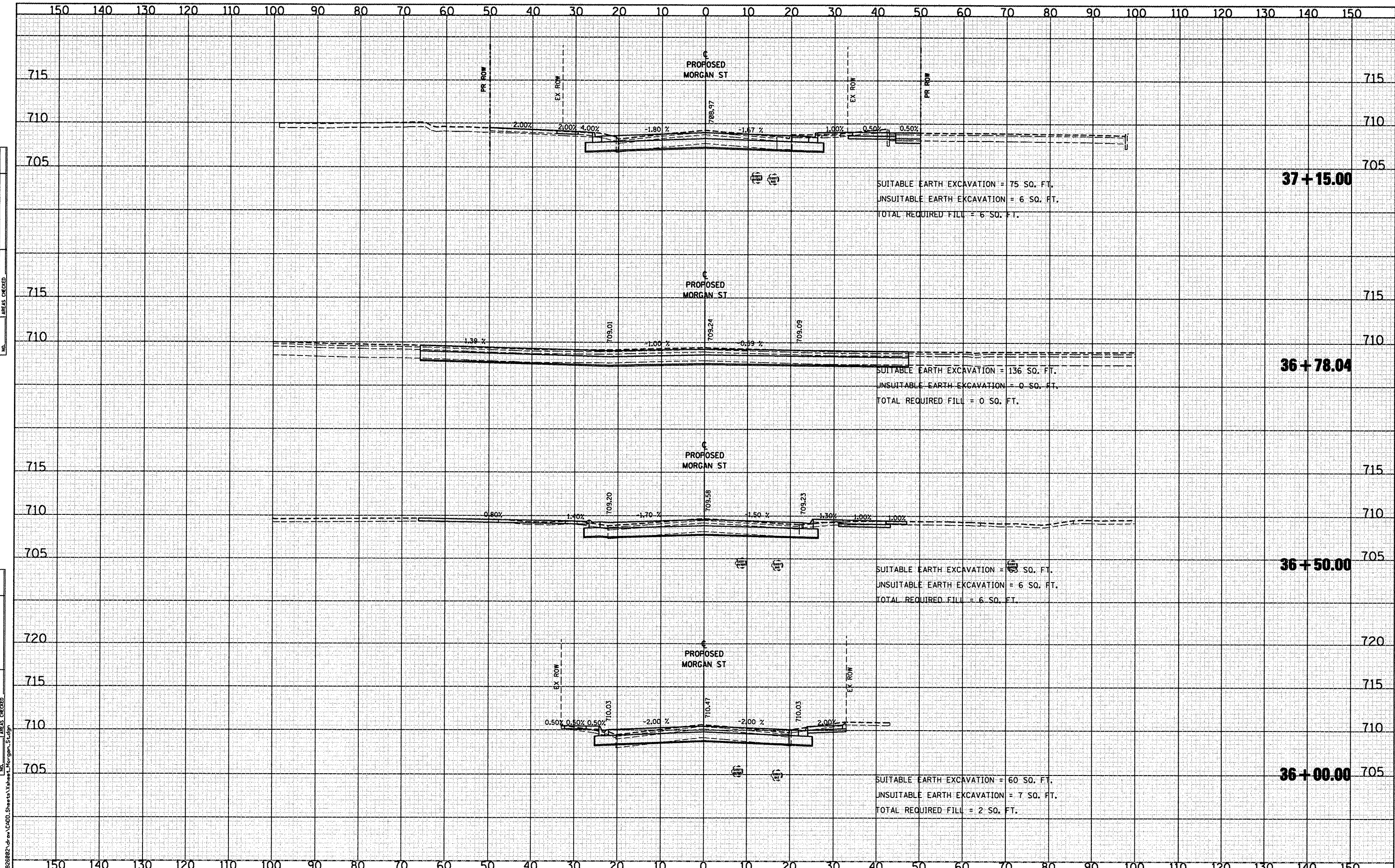
DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS CHECKED



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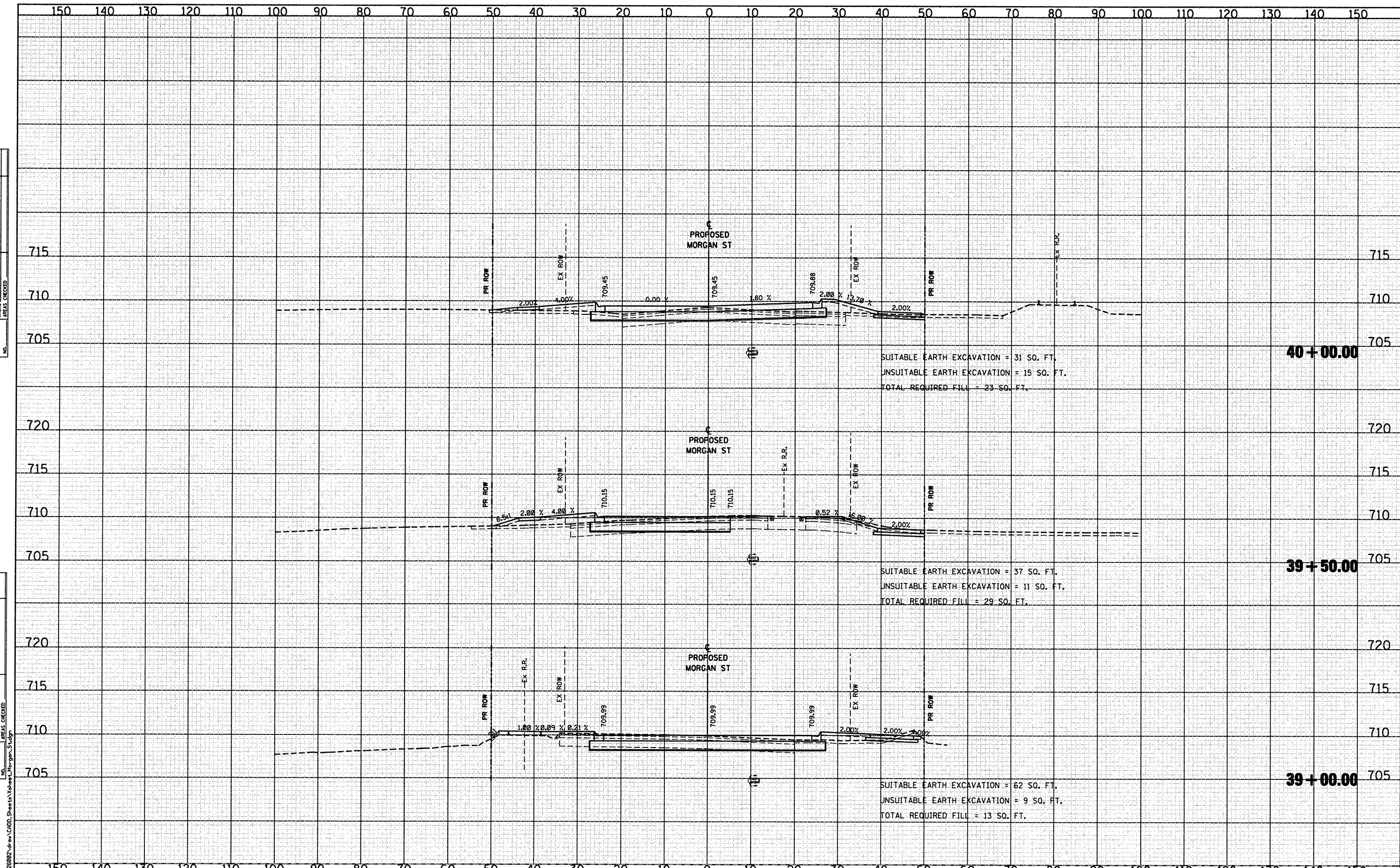
DATE	
BY	
NO.	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	



CMT CONSULTING ENGINEERS License No. 184-000613	USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -	CITY OF ROCKFORD MORGAN STREET BRIDGE	PROPOSED CROSS SECTIONS - MORGAN STREET			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 28.8000' / IN.	DRAWN - ERD	REVISED -		5077	99-00493-00-BR	WINNEBAGO	253	208			
	PLOT DATE = 02/04/11	CHECKED - SJP	REVISED -		SCALE: SHEET NO. OF SHEETS STA. 36+00.00 TO STA. 37+15.00			CONTRACT NO. 85529				
		DATE - 02/04/2011	REVISED -					FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRM-5091665				

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

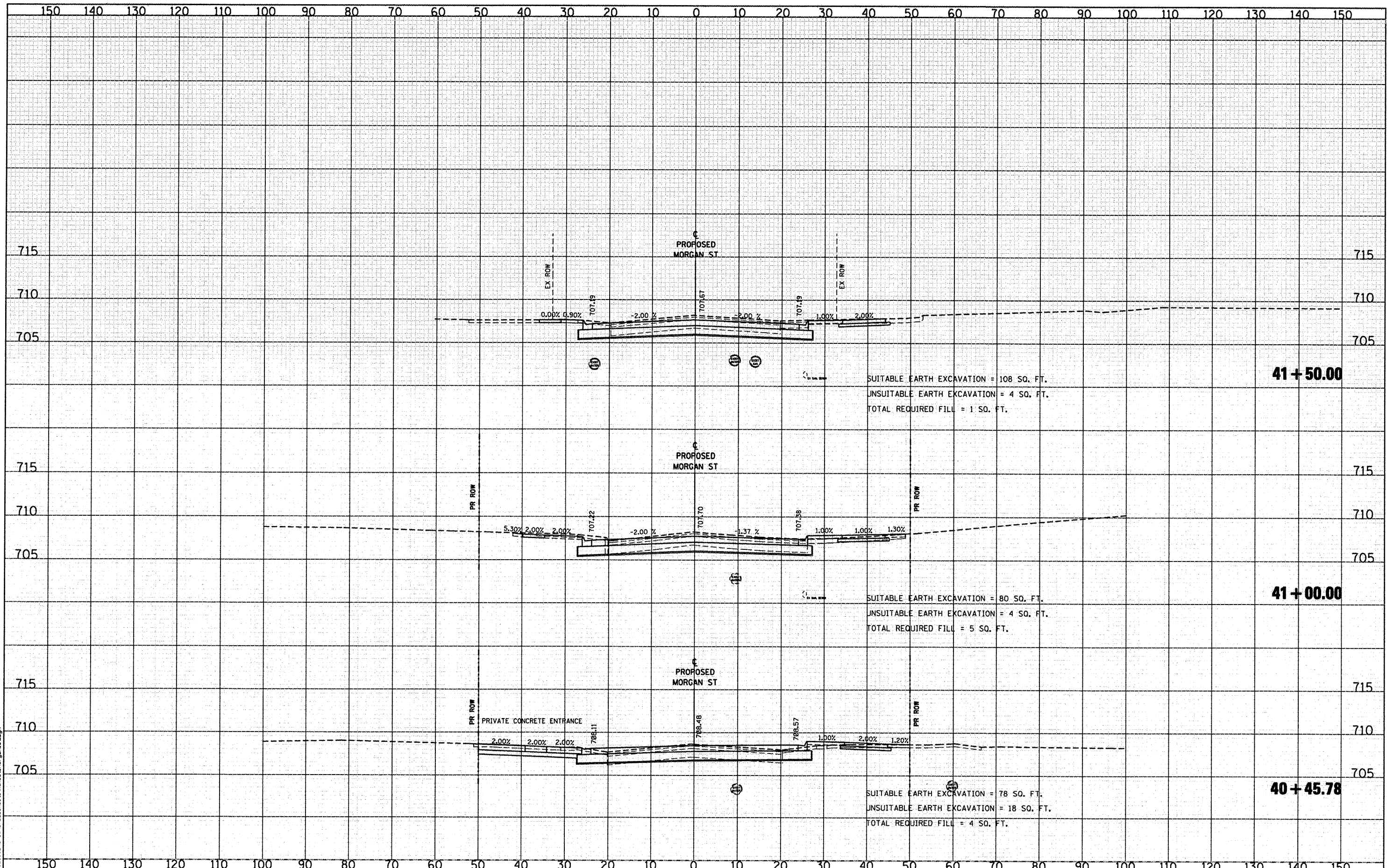
ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	



CMT CRAWFORD, MURPHY & TILLY, INC. CONSULTING ENGINEERS License No. 184-000613	USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -	CITY OF ROCKFORD MORGAN STREET BRIDGE	PROPOSED CROSS SECTIONS - MORGAN STREET			F.A. RTE. 5077	SECTION 99-00493-00-BR	COUNTY WINNEBAGO	TOTAL SHEETS 253	SHEET NO. 210
	PLOT SCALE = 20,0000' / IN.	CHECKED - SJP	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. 39+00.00 TO STA. 40+00.00	FED. ROAD DIST. NO. 2 ILLINOIS	FED. AID PROJECT BRM-509965			
	PLOT DATE = 02/04/11	DATE - 02/04/2011	REVISED -									
					CONTRACT NO. 85529							

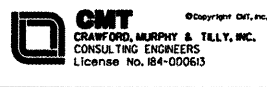
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**CITY OF ROCKFORD
MORGAN STREET BRIDGE**

PROPOSED CROSS SECTIONS - MORGAN STREET



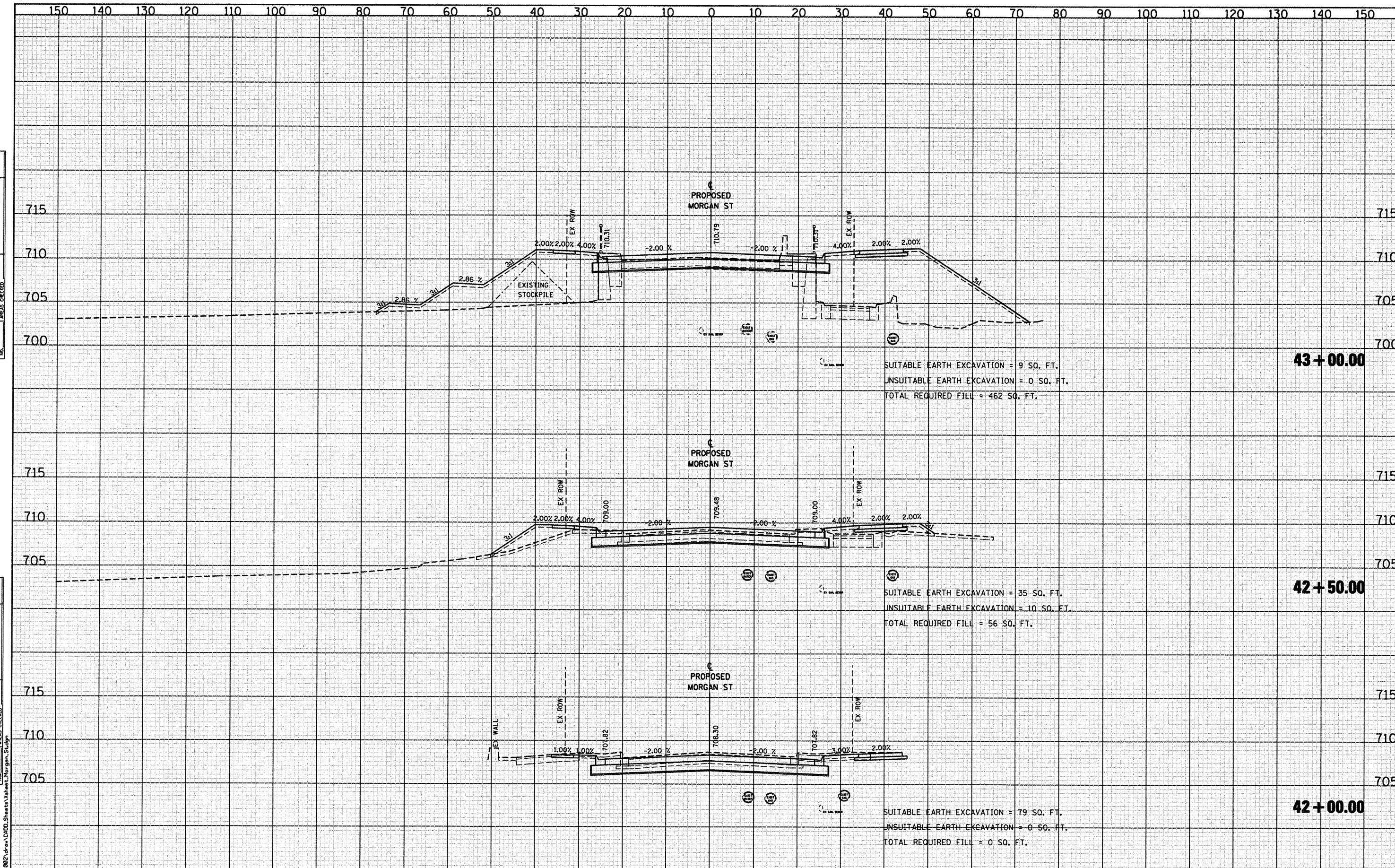
USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -
	DRAWN - ERD	REVISED -
PLOT SCALE = 20.0000' / IN.	CHECKED - SJP	REVISED -
PLOT DATE = 02/04/11	DATE - 02/04/2011	REVISED -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	211
CONTRACT NO. 85529				
SCALE: SHEET NO. OF SHEETS STA. 40+45.78 TO STA. 41+50.00				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-5099651				

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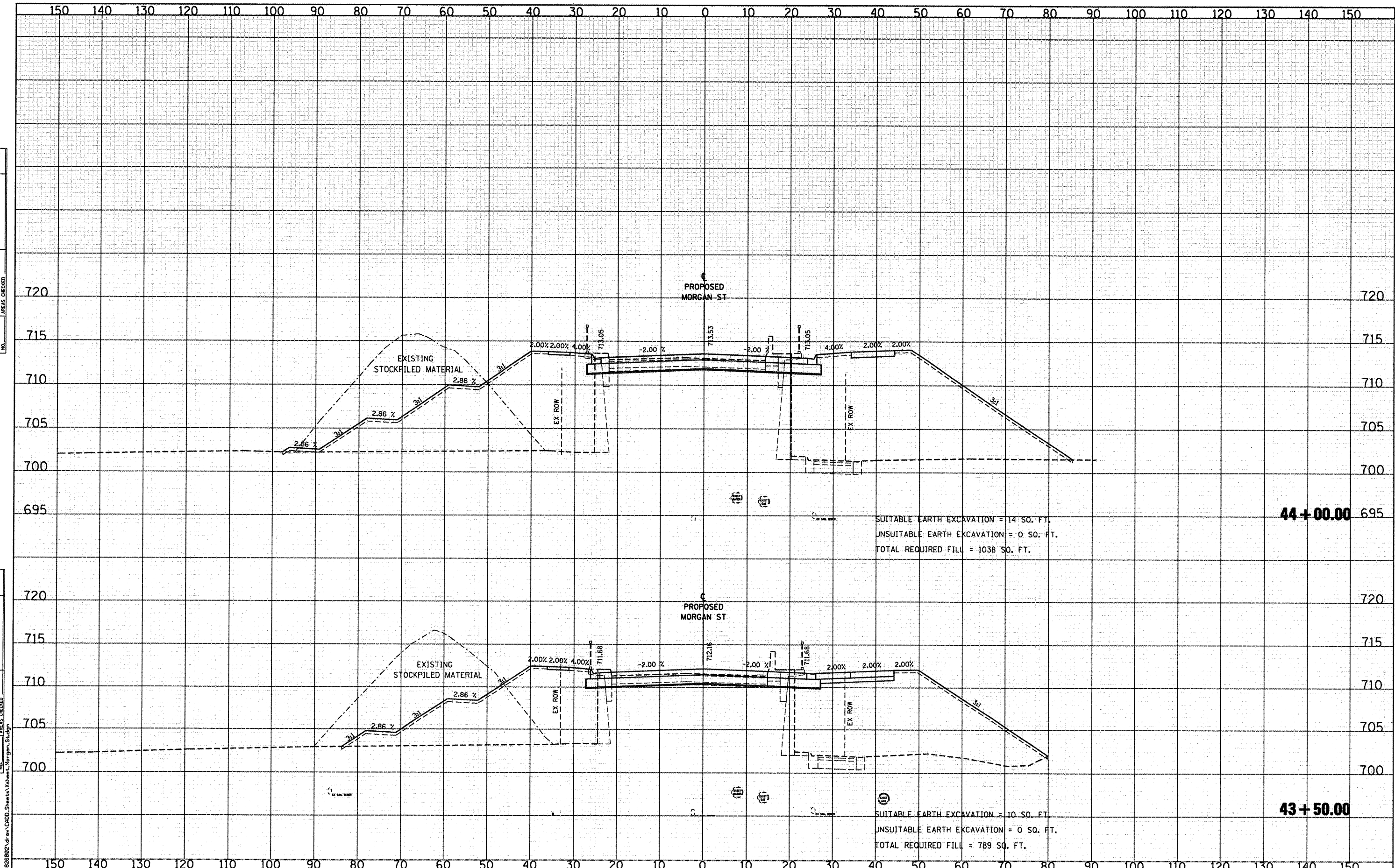
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REVISIONS	
AREAS CHECKED	
NO.	



CMT CRAWFORD, MURPHY & TILLY, INC. CONSULTING ENGINEERS License No. 04-000613	USER NAME = Steve Prange DESIGNED - SJP / MNB DRAWN - ERD CHECKED - SJP DATE - 02/04/2011	REVISED - REVISED - REVISED - REVISED -	CITY OF ROCKFORD MORGAN STREET BRIDGE	PROPOSED CROSS SECTIONS - MORGAN STREET	SCALE:	SHEET NO. OF SHEETS	STA. 42+00.00 TO STA. 43+00.00	F.A. RTE. 5077	SECTION 99-00493-00-BR	COUNTY WINNEBAGO	TOTAL SHEETS 253	SHEET NO. 212	CONTRACT NO. 85529
	PLOT SCALE = 20,000 / IN.	PLOT DATE = 02/04/11			DATE - 02/04/2011	FED. ROAD DIST. NO. 2 ILLINOIS	FED. AID PROJECT BRM-509965						

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PLOTTED	
NOTE BOOK	
AREAS CHECKED	



CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 084-000613

USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -
	DRAWN - ERD	REVISED -
PLOT SCALE = 20,0000' / IN.	CHECKED - SJP	REVISED -
PLOT DATE = 02/04/11	DATE - 02/04/2011	REVISED -

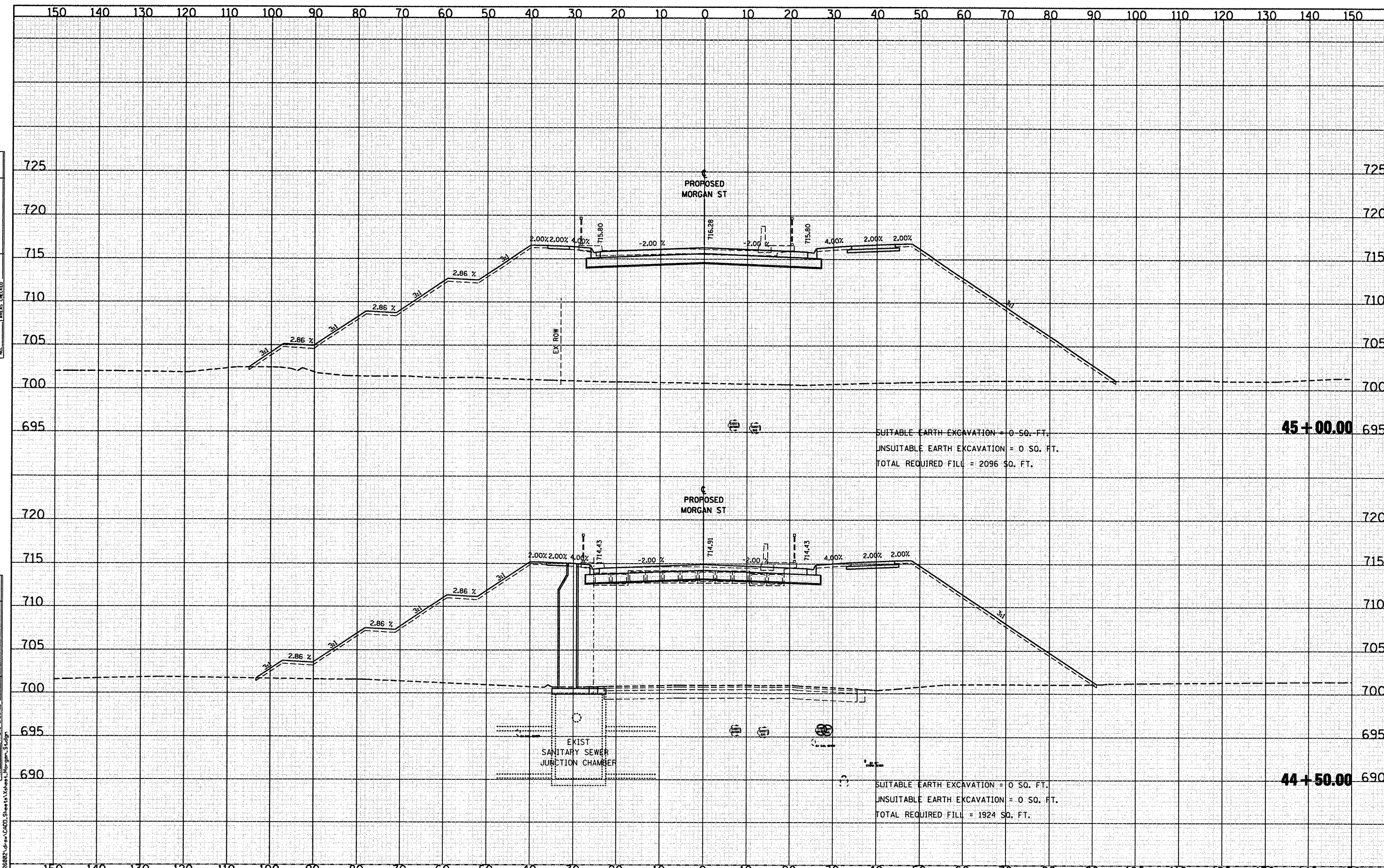
CITY OF ROCKFORD
MORGAN STREET BRIDGE

PROPOSED CROSS SECTIONS - MORGAN STREET			
SCALE:	SHEET NO.	OF SHEETS	STA. 43+50.00 TO STA. 44+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	213
CONTRACT NO. 85529				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-5091661				

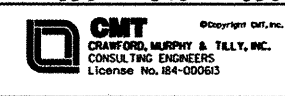
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AREAS CHECKED	



45+00.00
 SUITABLE EARTH EXCAVATION = 0 SQ. FT.
 UNSUITABLE EARTH EXCAVATION = 0 SQ. FT.
 TOTAL REQUIRED FILL = 2096 SQ. FT.

44+50.00
 SUITABLE EARTH EXCAVATION = 0 SQ. FT.
 UNSUITABLE EARTH EXCAVATION = 0 SQ. FT.
 TOTAL REQUIRED FILL = 1924 SQ. FT.



USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -
	DRAWN - ERD	REVISED -
PLOT SCALE = 20,0000' / IN.	CHECKED - SJP	REVISED -
PLOT DATE = 02/04/11	DATE - 02/04/2011	REVISED -

**CITY OF ROCKFORD
 MORGAN STREET BRIDGE**

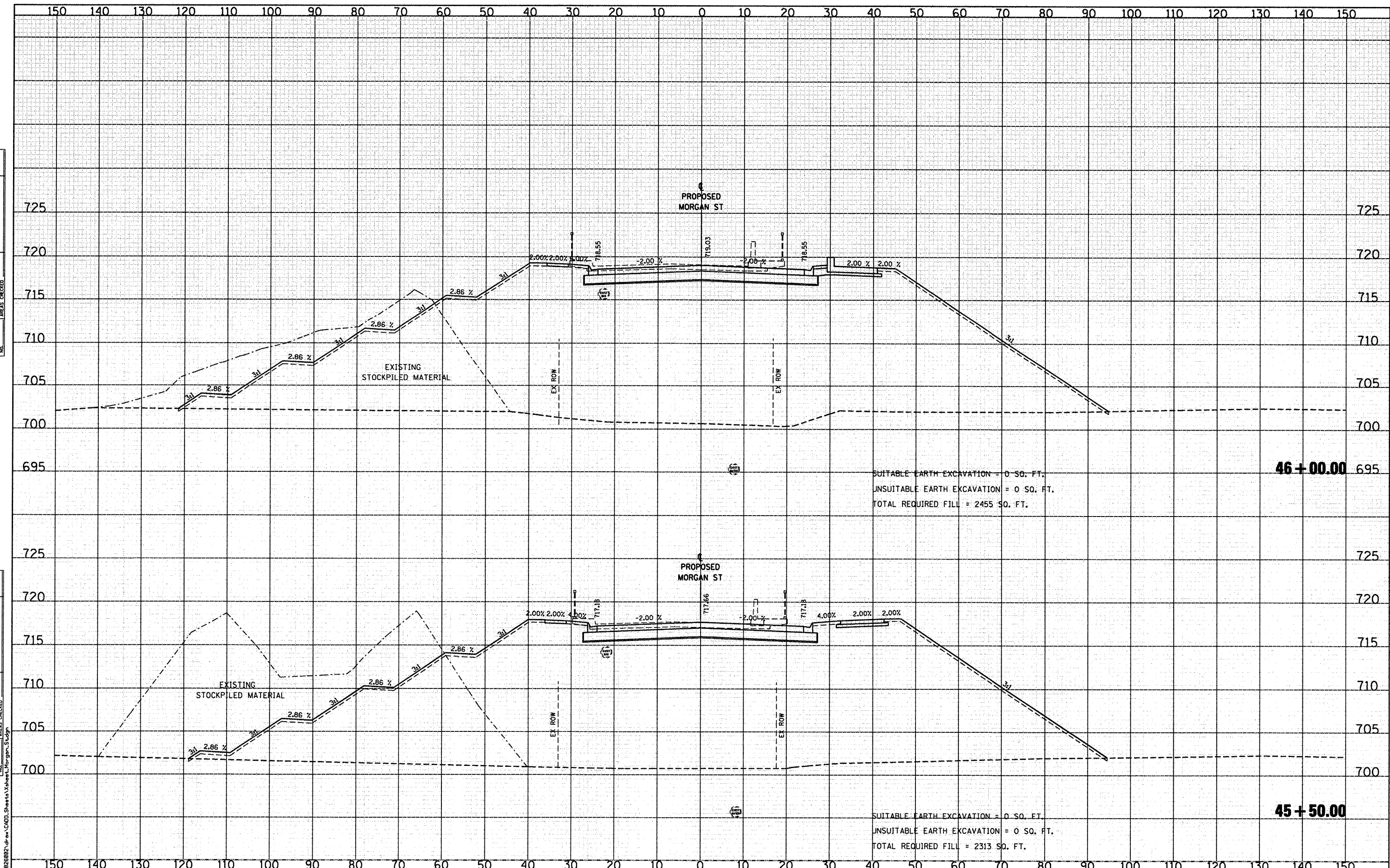
PROPOSED CROSS SECTIONS - MORGAN STREET

SCALE: SHEET NO. OF SHEETS STA. 44+50.00 TO STA. 45+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	214
			CONTRACT NO. 85529	
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-509965				

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ORIGINAL SURVEY	
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AREAS CHECKED	
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CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 024-000613

USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -
	DRAWN - ERD	REVISED -
PLOT SCALE = 20,0000' / IN.	CHECKED - SJP	REVISED -
PLOT DATE = 02/04/11	DATE - 02/04/2011	REVISED -

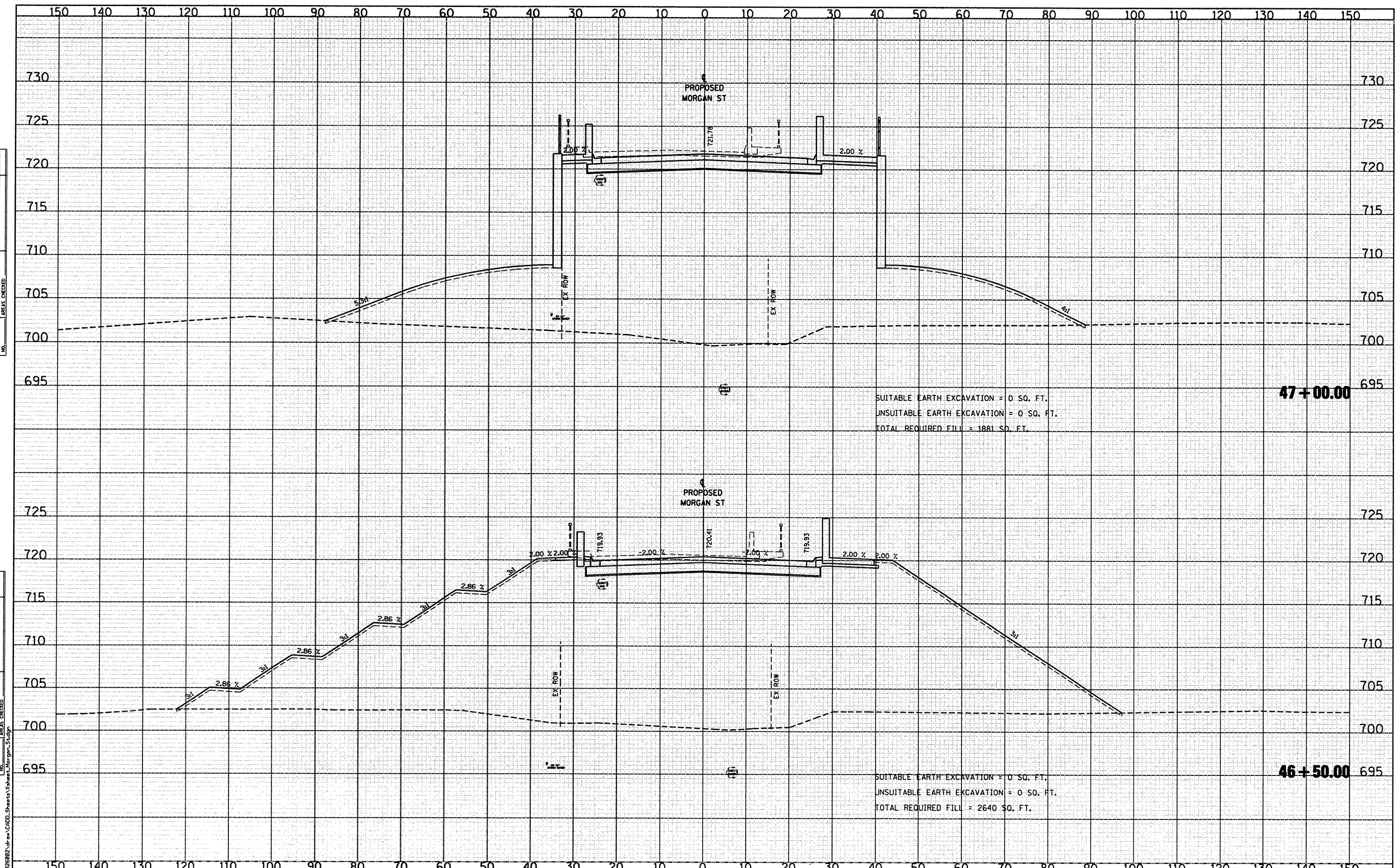
**CITY OF ROCKFORD
MORGAN STREET BRIDGE**

PROPOSED CROSS SECTIONS - MORGAN STREET			
SCALE:	SHEET NO.	OF SHEETS	STA. 45+50.00 TO STA. 46+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	215
CONTRACT NO. 85529				
FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRM-509965				

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NOTE BOOK	
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SUITABLE EARTH EXCAVATION = 0 SQ. FT.
 UNSUITABLE EARTH EXCAVATION = 0 SQ. FT.
 TOTAL REQUIRED FILL = 1881 SQ. FT.

47+00.00

SUITABLE EARTH EXCAVATION = 0 SQ. FT.
 UNSUITABLE EARTH EXCAVATION = 0 SQ. FT.
 TOTAL REQUIRED FILL = 2640 SQ. FT.

46+50.00



USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -
	DRAWN - ERD	REVISED -
PLOT SCALE = 20,0000' / IN.	CHECKED - SJP	REVISED -
PLOT DATE = 02/04/11	DATE - 02/04/2011	REVISED -

**CITY OF ROCKFORD
 MORGAN STREET BRIDGE**

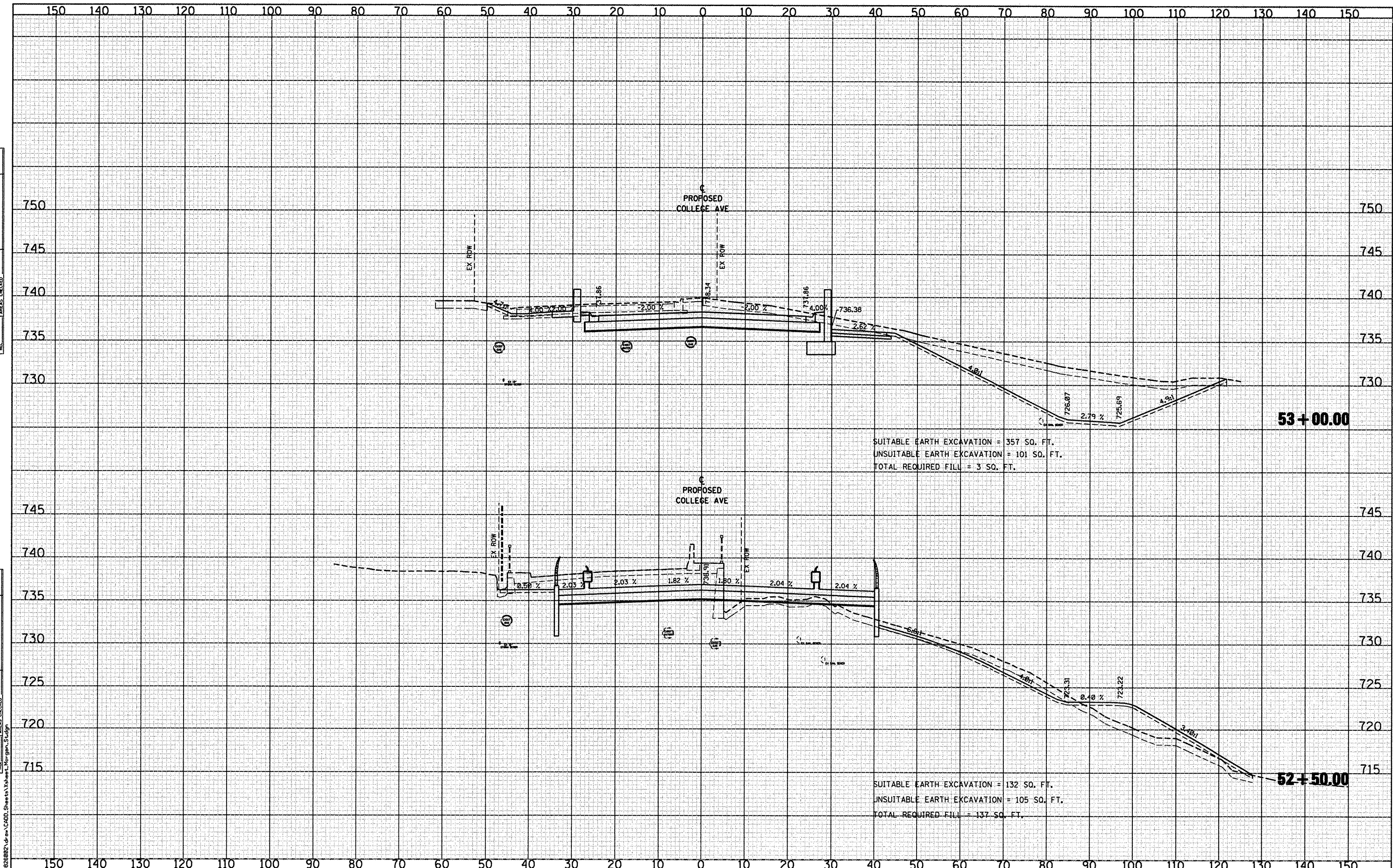
PROPOSED CROSS SECTIONS - MORGAN STREET

SCALE: SHEET NO. OF SHEETS STA. 46+50.00 TO STA. 47+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	216
			CONTRACT NO. 85529	
FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRW-509165				

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NOTE BOOK	
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CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 04-000613

USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -
	DRAWN - ERD	REVISED -
PLOT SCALE = 20.0000' / IN.	CHECKED - SJP	REVISED -
PLOT DATE = 02/04/11	DATE - 02/04/2011	REVISED -

**CITY OF ROCKFORD
 MORGAN STREET BRIDGE**

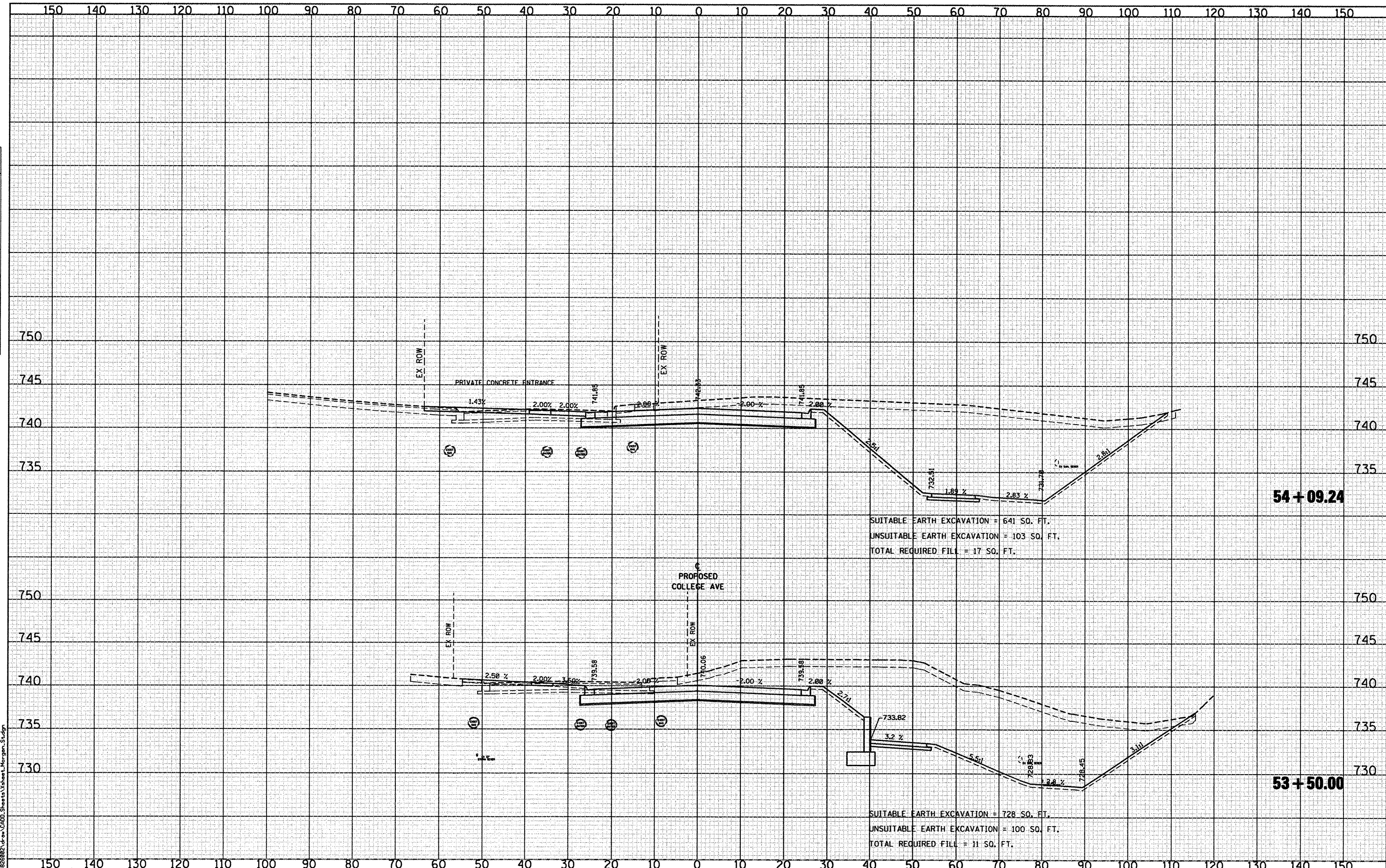
PROPOSED CROSS SECTIONS - MORGAN STREET

SCALE:	SHEET NO.	OF	SHEETS	STA. 52+50.00	TO STA. 53+00.00
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	217
CONTRACT NO. 85529			FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRM-509965	

FINAL SURVEY NO.	DATE
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ORIGINAL SURVEY NO.	DATE
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SUITABLE EARTH EXCAVATION = 641 SQ. FT.
 UNSUITABLE EARTH EXCAVATION = 103 SQ. FT.
 TOTAL REQUIRED FILL = 17 SQ. FT.

SUITABLE EARTH EXCAVATION = 728 SQ. FT.
 UNSUITABLE EARTH EXCAVATION = 100 SQ. FT.
 TOTAL REQUIRED FILL = 11 SQ. FT.

54 + 09.24

53 + 50.00



USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -
	DRAWN - ERD	REVISED -
PLOT SCALE = 20,000' / IN.	CHECKED - SJP	REVISED -
PLOT DATE = 02/04/11	DATE - 02/04/2011	REVISED -

**CITY OF ROCKFORD
 MORGAN STREET BRIDGE**

PROPOSED CROSS SECTIONS - COLLEGE AVENUE

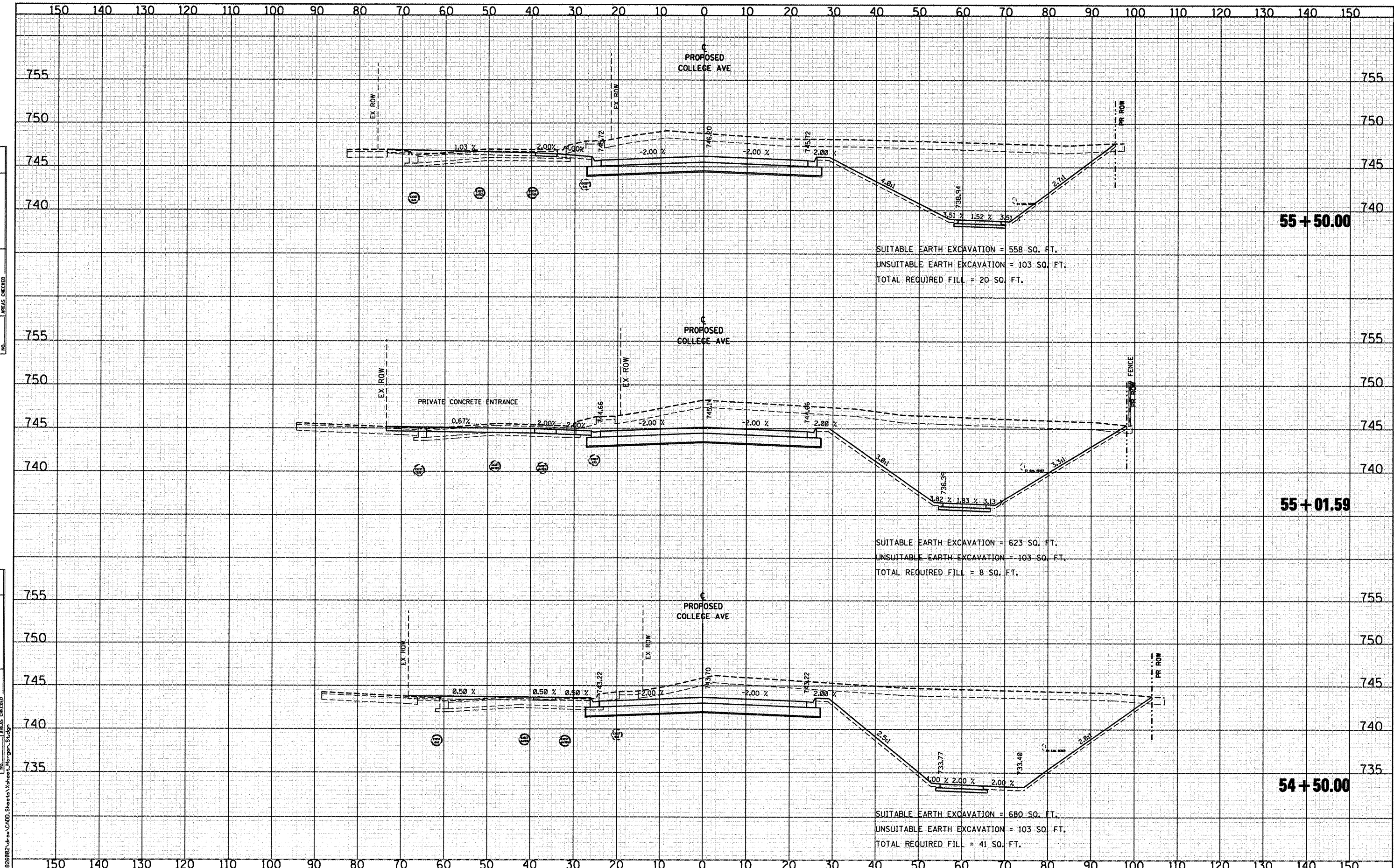
SCALE: SHEET NO. OF SHEETS STA. 53+50.00 TO STA. 54+09.24

F.A. RTE. 5077	SECTION 99-00493-00-BR	COUNTY WINNEBAGO	TOTAL SHEETS 253	SHEET NO. 218
FED. ROAD DIST. NO. 2 ILLINOIS			FED. AID PROJECT BRM-509965	

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NOTE BOOK	
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SUITABLE EARTH EXCAVATION = 558 SQ. FT.
 UNSUITABLE EARTH EXCAVATION = 103 SQ. FT.
 TOTAL REQUIRED FILL = 20 SQ. FT.

SUITABLE EARTH EXCAVATION = 623 SQ. FT.
 UNSUITABLE EARTH EXCAVATION = 103 SQ. FT.
 TOTAL REQUIRED FILL = 8 SQ. FT.

SUITABLE EARTH EXCAVATION = 680 SQ. FT.
 UNSUITABLE EARTH EXCAVATION = 103 SQ. FT.
 TOTAL REQUIRED FILL = 41 SQ. FT.



USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -
	DRAWN - ERD	REVISED -
PLOT SCALE = 20,0000 / IN.	CHECKED - SJP	REVISED -
PLOT DATE = 02/04/11	DATE - 02/04/2011	REVISED -

**CITY OF ROCKFORD
MORGAN STREET BRIDGE**

PROPOSED CROSS SECTIONS - COLLEGE AVENUE

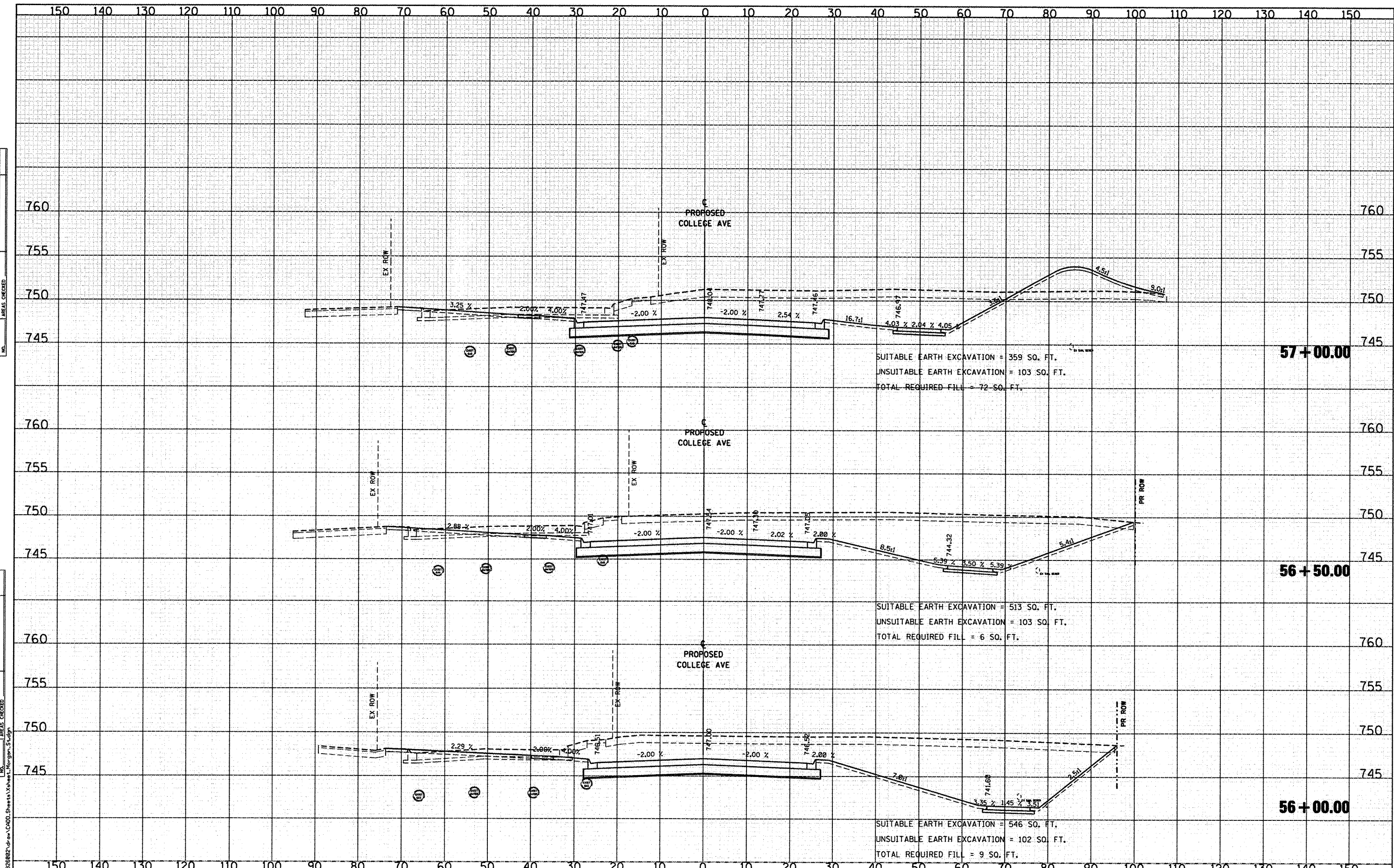
SCALE: SHEET NO. OF SHEETS STA. 54+50.00 TO STA. 55+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	219
CONTRACT NO. 85529				

FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-5091651

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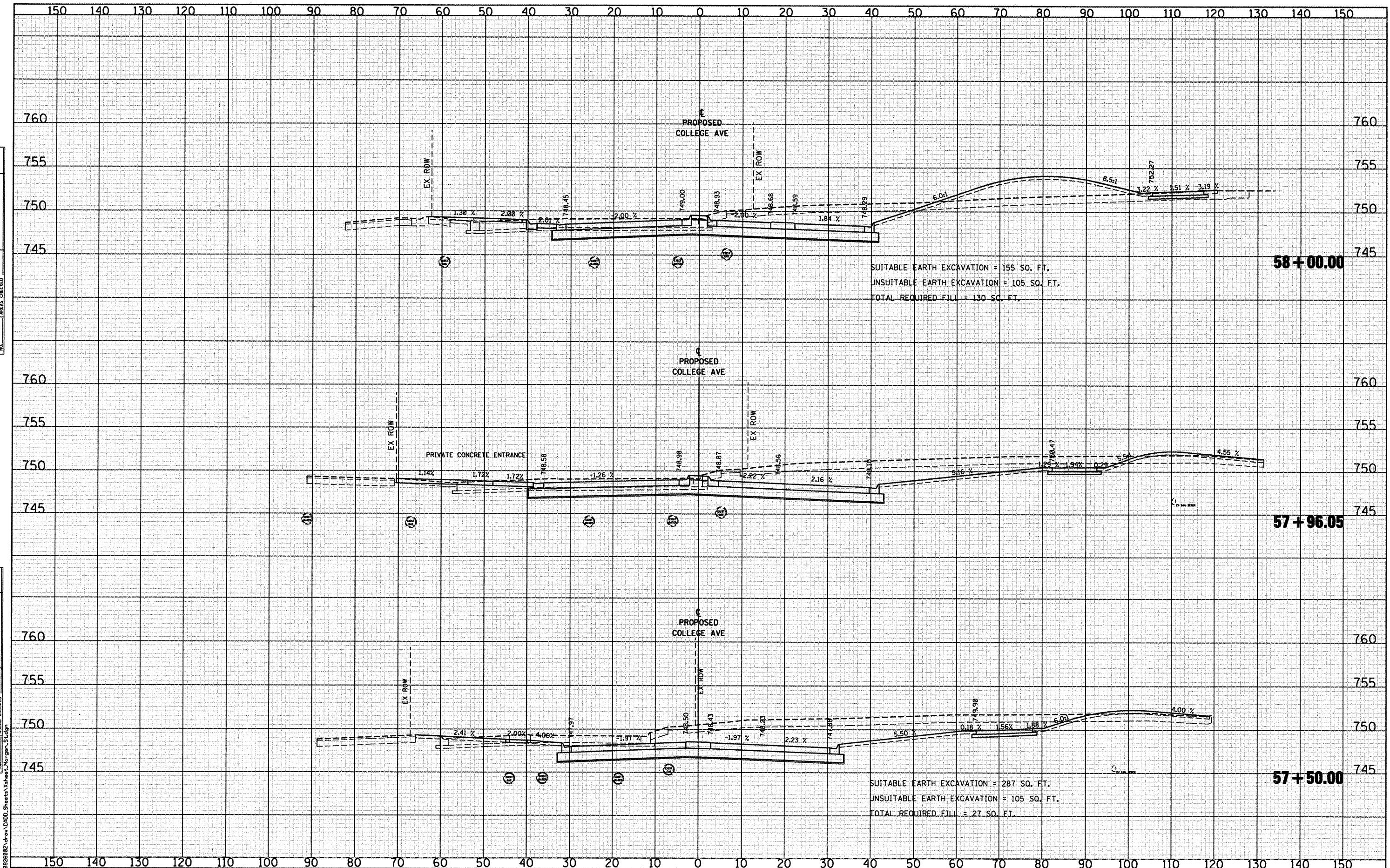
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 CMT CHAMBERLAIN, MURPHY & TULLY, INC. CONSULTING ENGINEERS License No. 184-00063	USER NAME = Steve Prange DESIGNED - SJP / MNB DRAWN - ERD CHECKED - SJP DATE - 02/04/2011	REVISED - REVISED - REVISED - REVISED -	CITY OF ROCKFORD MORGAN STREET BRIDGE	PROPOSED CROSS SECTIONS - COLLEGE AVENUE		F.A. RTE. 5077 SECTION 99-00493-00-BR COUNTY WINNEBAGO TOTAL SHEETS 253 SHEET NO. 220 CONTRACT NO. 85529
	PLOT SCALE = 20,0000' / IN. PLOT DATE = 02/04/11	SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. 56+00.00 TO STA. 57+00.00		FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRM-509(665)		

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AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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CMT
 CHARTERED SURVEYORS & ENGINEERS
 CONSULTING ENGINEERS
 License No. 184-000613

USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -
PLLOT SCALE = 20.0000' / IN.	DRAWN - ERD	REVISED -
PLLOT DATE = 02/04/11	CHECKED - SJP	REVISED -
	DATE - 02/04/2011	REVISED -

**CITY OF ROCKFORD
 MORGAN STREET BRIDGE**

PROPOSED CROSS SECTIONS - COLLEGE AVENUE

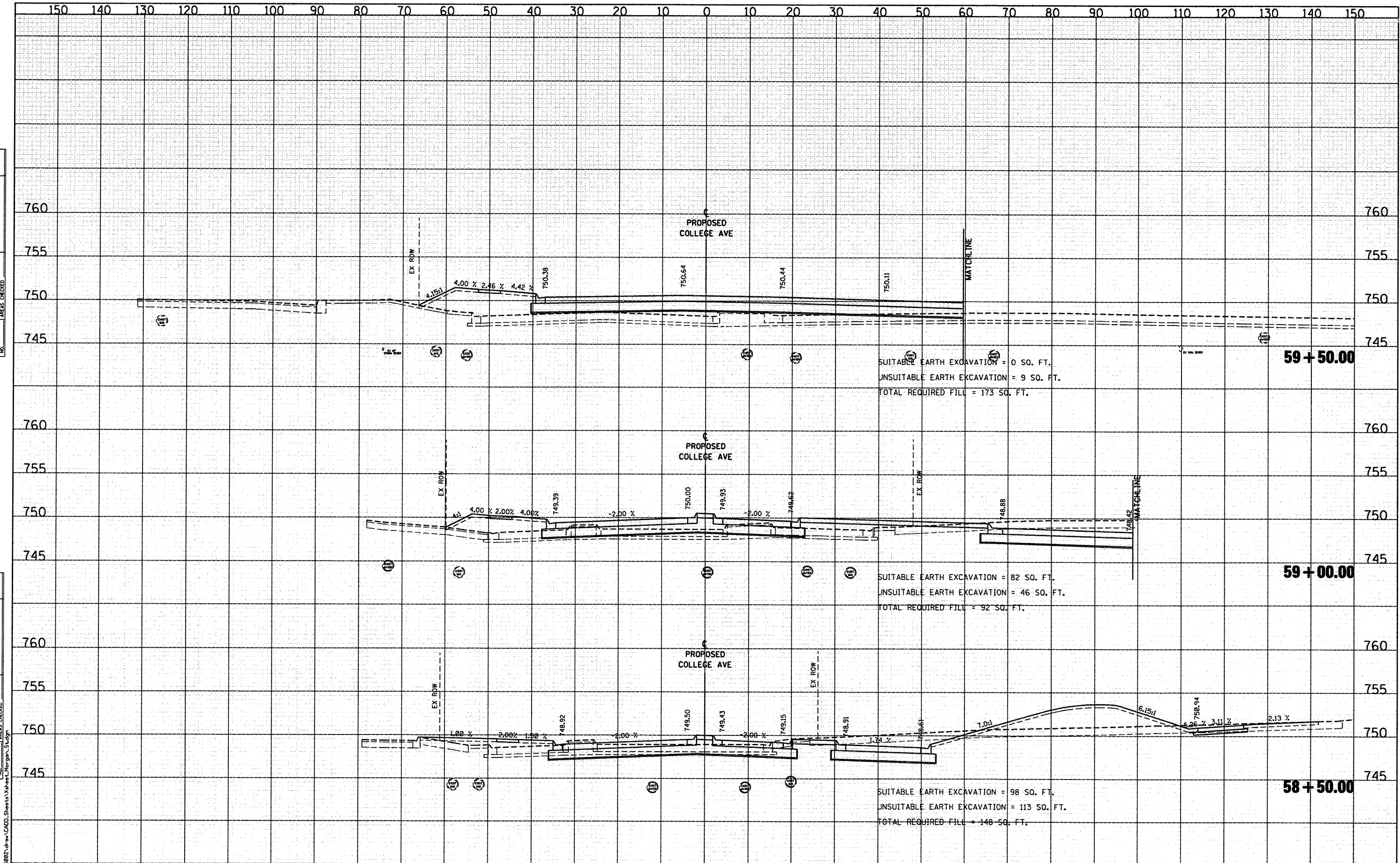
SCALE: SHEET NO. OF SHEETS STA. 57+50.00 TO STA. 58+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	221
			CONTRACT NO. 85529	

FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRM-509965

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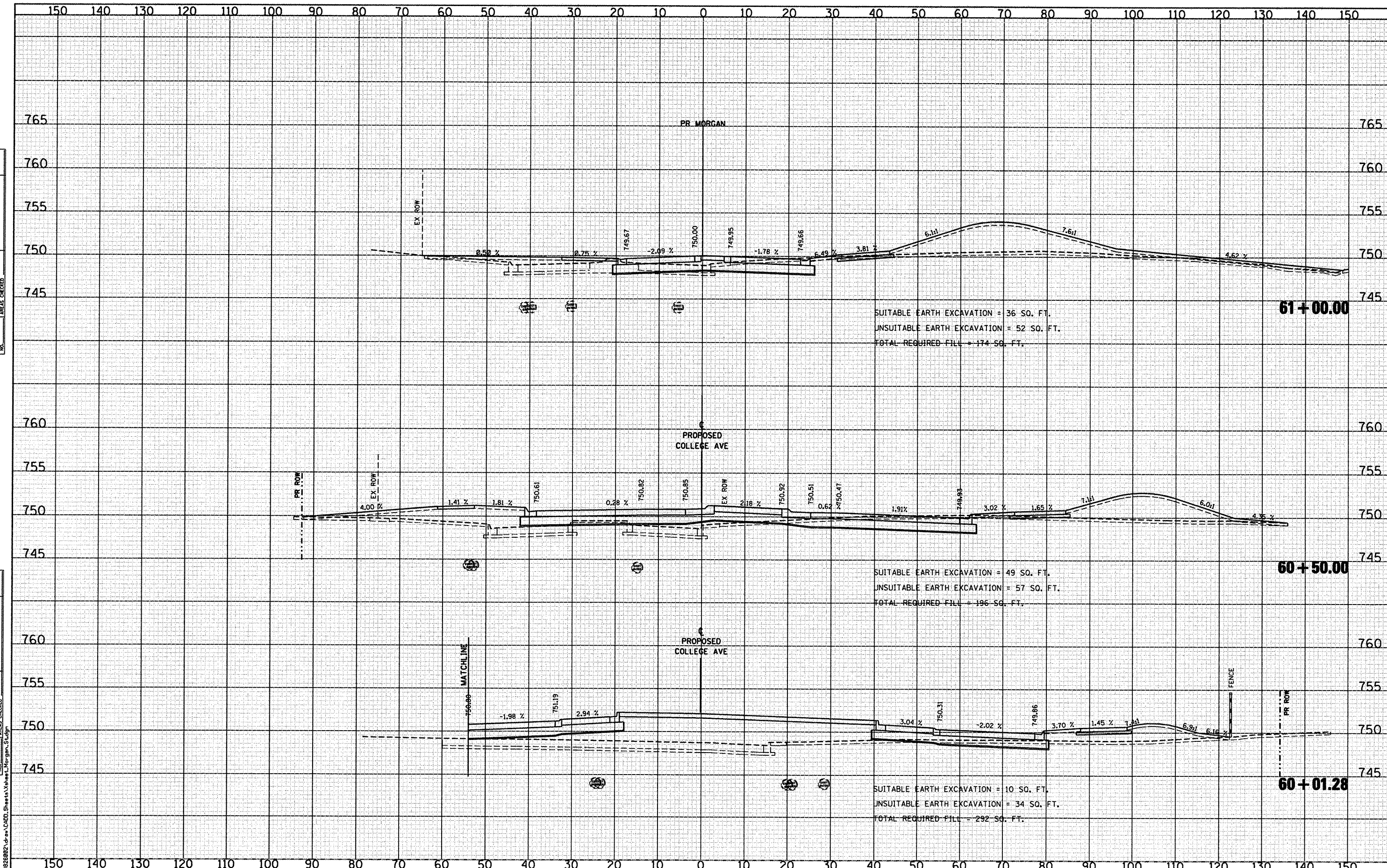
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NOTE BOOK	
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CMT CRAWFORD, MURPHY & TILLY, INC. CONSULTING ENGINEERS License No. 04-000613	USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -	CITY OF ROCKFORD MORGAN STREET BRIDGE	PROPOSED CROSS SECTIONS - COLLEGE AVENUE			F.A. RTE. 5077 SECTION 99-00493-00-BR COUNTY WINNEBAGO TOTAL SHEET NO. 253 SHEET NO. 222 CONTRACT NO. 85529 FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-5099651	
	PLOT SCALE = 20,0000' / IN.	DRAWN - ERD	REVISED -		SCALE:	SHEET NO.	OF SHEETS		
	PLOT DATE = 02/04/11	CHECKED - SJP	REVISED -		STA. 58+50.00	TO STA. 59+50.00			
		DATE - 02/04/2011	REVISED -						

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FINAL SURVEY	
REVISIONS	
NOTE BOOK	
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NOTE BOOK	
AREAS CHECKED	



CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 84-00063

USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -
	DRAWN - ERD	REVISED -
PLOT SCALE = 20.0000' / IN.	CHECKED - SJP	REVISED -
PLOT DATE = 02/04/2011	DATE - 02/04/2011	REVISED -

**CITY OF ROCKFORD
 MORGAN STREET BRIDGE**

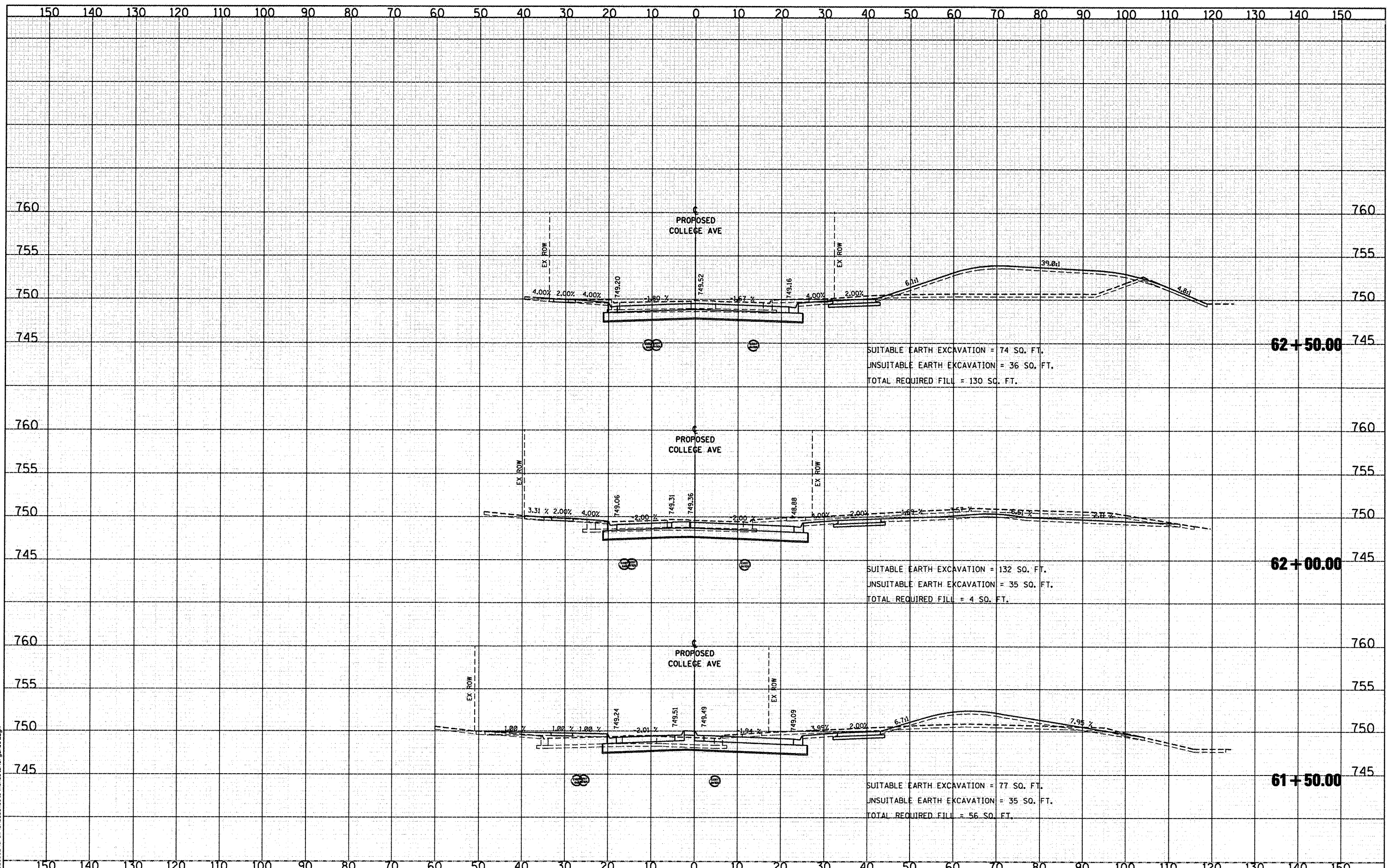
PROPOSED CROSS SECTIONS - COLLEGE AVENUE

SCALE:	SHEET NO. OF SHEETS	STA. 60+01.28 TO STA. 61+00.00
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	223
				CONTRACT NO. 85529
FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRN-509965				

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NOTE BOOK	
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SURVEYED	
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DATE	
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USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -
PLOT SCALE = 20,0000 / IN.	DRAWN - ERD	REVISED -
PLOT DATE = 02/04/11	CHECKED - SJP	REVISED -
	DATE - 02/04/2011	REVISED -

**CITY OF ROCKFORD
 MORGAN STREET BRIDGE**

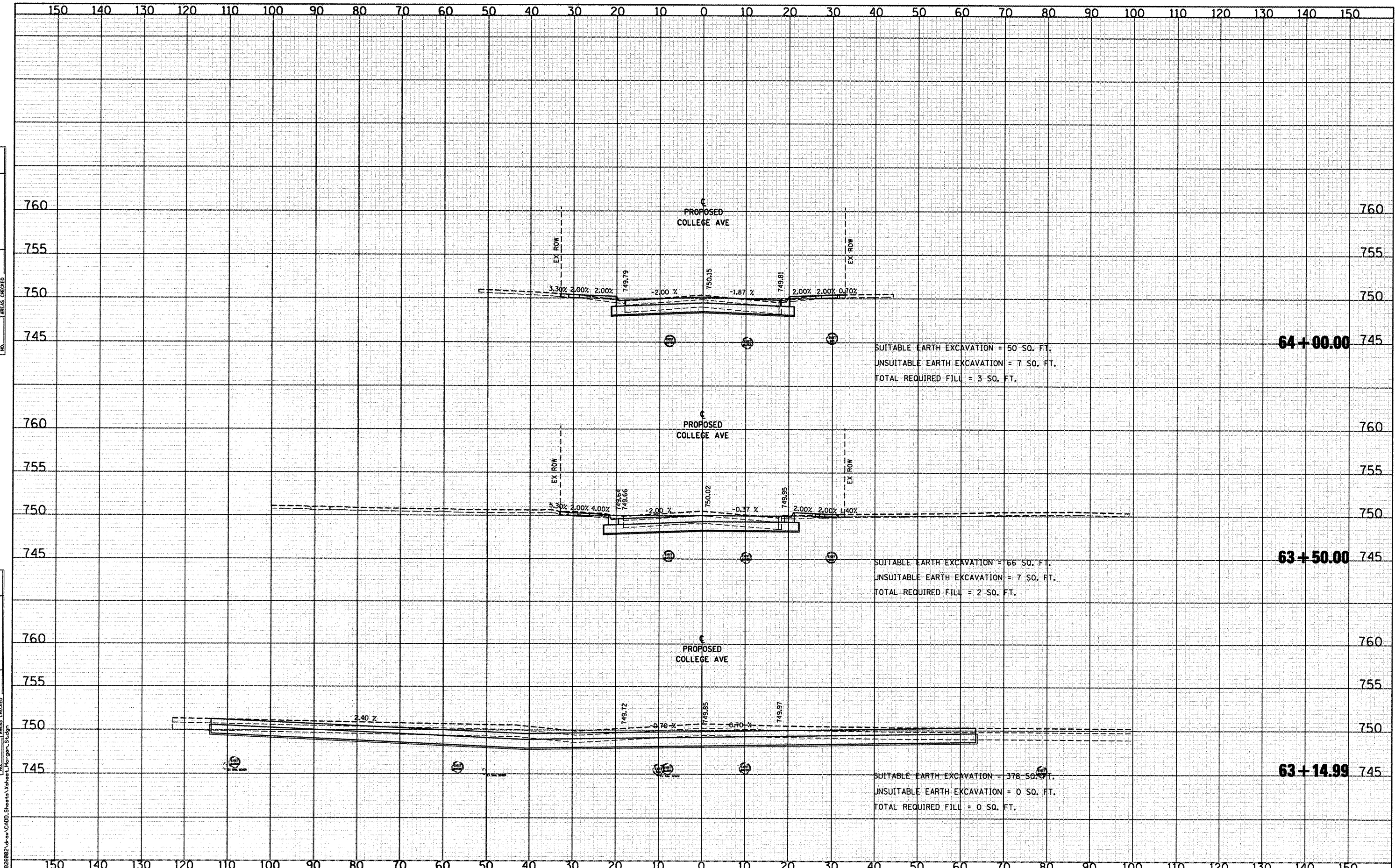
PROPOSED CROSS SECTIONS - COLLEGE AVENUE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	224
FED. ROAD DIST. NO. 2 [ILLINOIS]			FED. AID PROJECT BRM-5091661	

SCALE: SHEET NO. OF SHEETS STA. 61+50.00 TO STA. 62+50.00

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AREAS CHECKED	

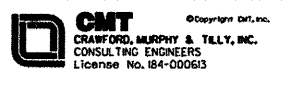
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SUITABLE EARTH EXCAVATION = 50 SQ. FT.
 UNSUITABLE EARTH EXCAVATION = 7 SQ. FT.
 TOTAL REQUIRED FILL = 3 SQ. FT.

SUITABLE EARTH EXCAVATION = 66 SQ. FT.
 UNSUITABLE EARTH EXCAVATION = 7 SQ. FT.
 TOTAL REQUIRED FILL = 2 SQ. FT.

SUITABLE EARTH EXCAVATION = 378 SQ. FT.
 UNSUITABLE EARTH EXCAVATION = 0 SQ. FT.
 TOTAL REQUIRED FILL = 0 SQ. FT.



USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -
PLOT SCALE = 28,8000 / IN.	DRAWN - ERD	REVISED -
PLOT DATE = 02/04/11	CHECKED - SJP	REVISED -
	DATE - 02/04/2011	REVISED -

**CITY OF ROCKFORD
 MORGAN STREET BRIDGE**

PROPOSED CROSS SECTIONS - COLLEGE AVENUE

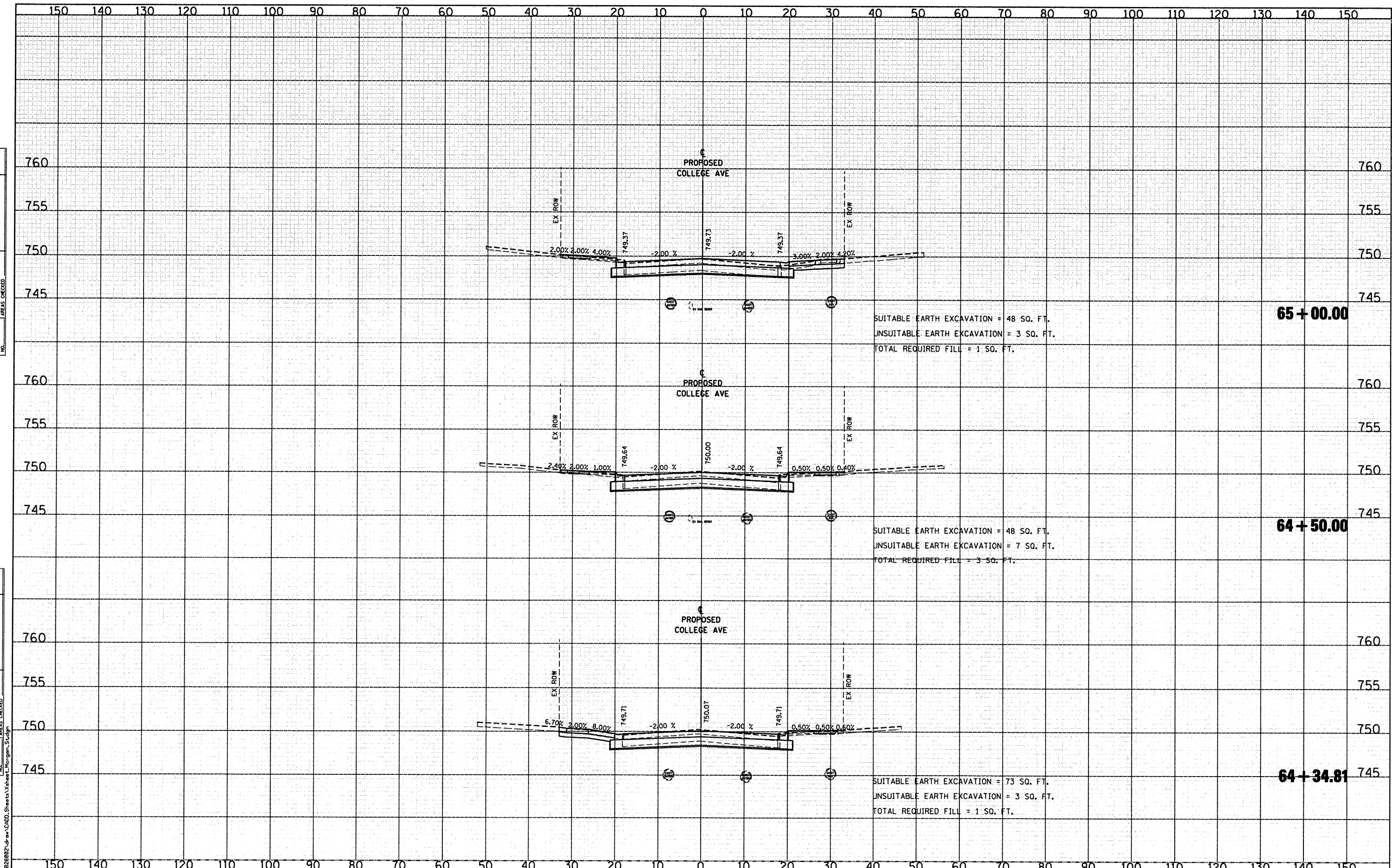
SCALE: SHEET NO. OF SHEETS STA. 63+14.99 TO STA. 64+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	225
CONTRACT NO. 85529				

FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-509965

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CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -
	DRAWN - ERD	REVISED -
PLLOT SCALE = 20.0000' / IN.	CHECKED - SJP	REVISED -
PLLOT DATE = 02/04/11	DATE - 02/04/2011	REVISED -

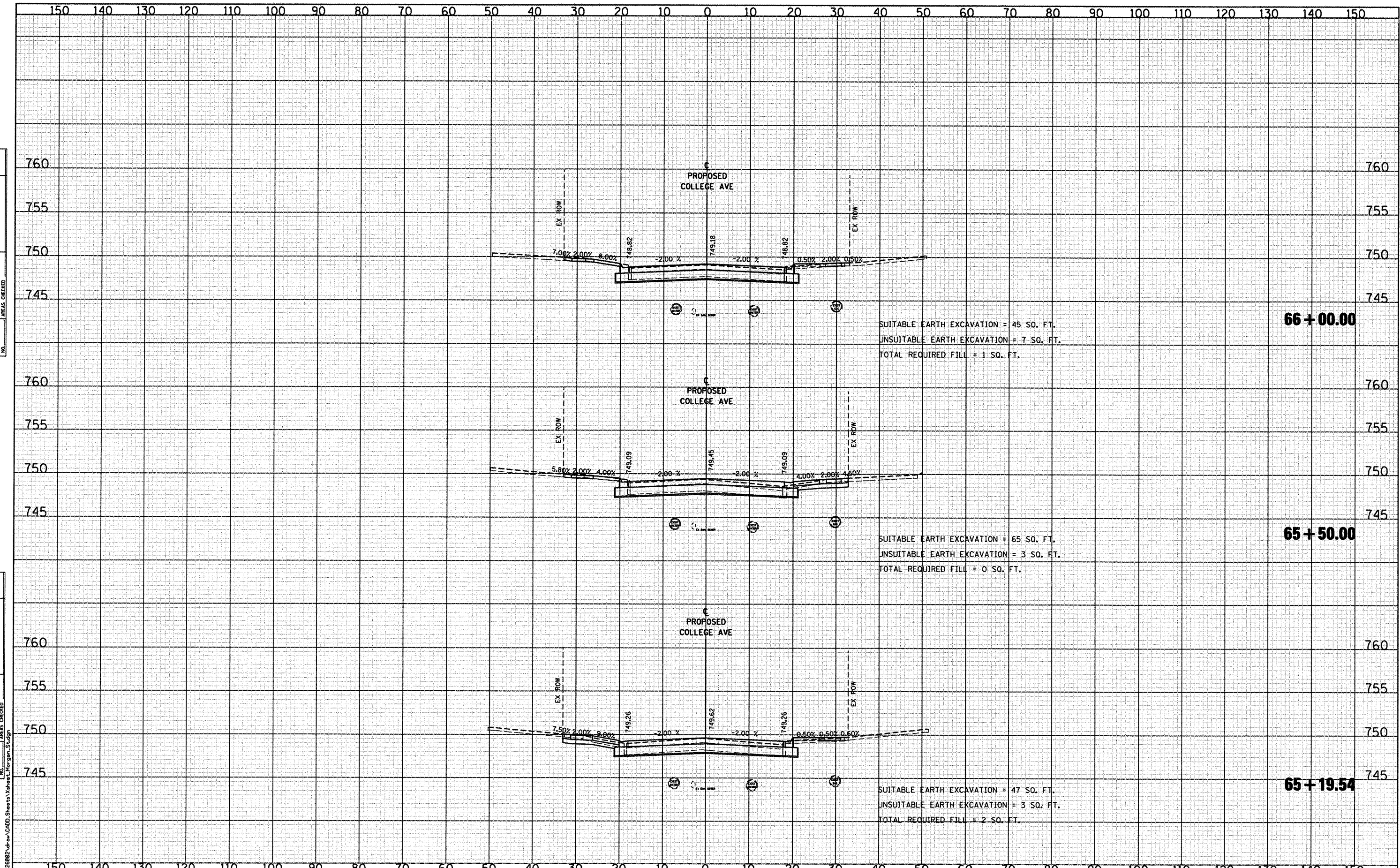
**CITY OF ROCKFORD
MORGAN STREET BRIDGE**

PROPOSED CROSS SECTIONS - COLLEGE AVENUE			
SCALE:	SHEET NO.	OF SHEETS	STA. 64+34.81 TO STA. 65+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	226
CONTRACT NO. 85529			FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRM-5091651	

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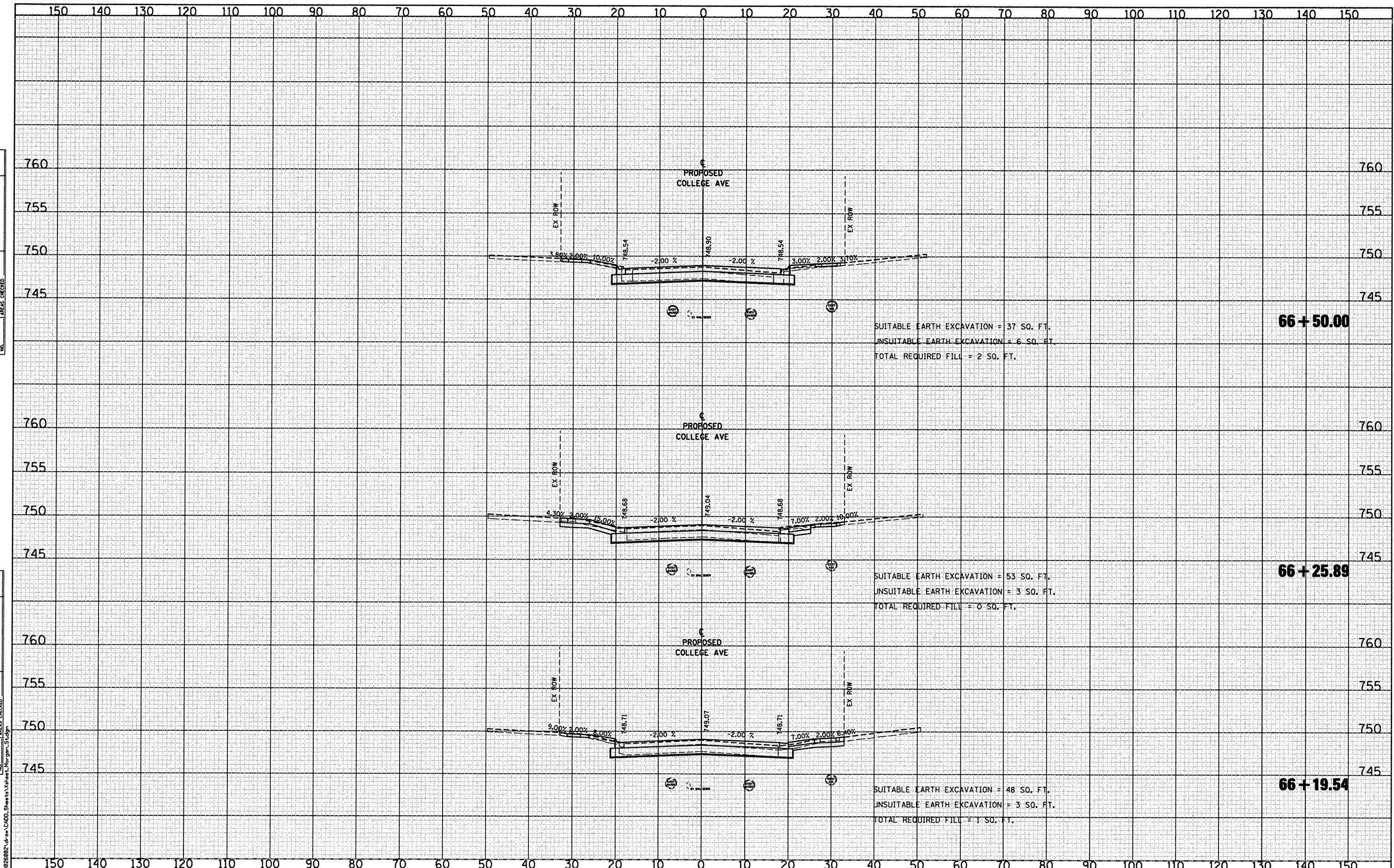
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NOTE BOOK	
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CMT CRANFORD, MURPHY & TILLY, INC. CONSULTING ENGINEERS License No. 184-000613	USER NAME = Steve Prange PLOT SCALE = 20,0000' / IN. PLOT DATE = 02/04/11	DESIGNED - SJP / MNB DRAWN - ERD CHECKED - SJP DATE - 02/04/2011	REVISED - REVISED - REVISED - REVISED -	CITY OF ROCKFORD MORGAN STREET BRIDGE	PROPOSED CROSS SECTIONS - COLLEGE AVENUE	SCALE:	SHEET NO. OF SHEETS	STA. 65+19.54 TO STA. 66+00.00	F.A. RTE. 5077	SECTION 99-00493-00-BR	COUNTY WINNEBAGO	TOTAL SHEETS 253	SHEET NO. 227	CONTRACT NO. 85529	FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRW-5091661
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ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	



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CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -
	DRAWN - ERD	REVISED -
PLOT SCALE = 20.0000' / IN.	CHECKED - SJP	REVISED -
PLOT DATE = 02/04/11	DATE - 02/04/2011	REVISED -

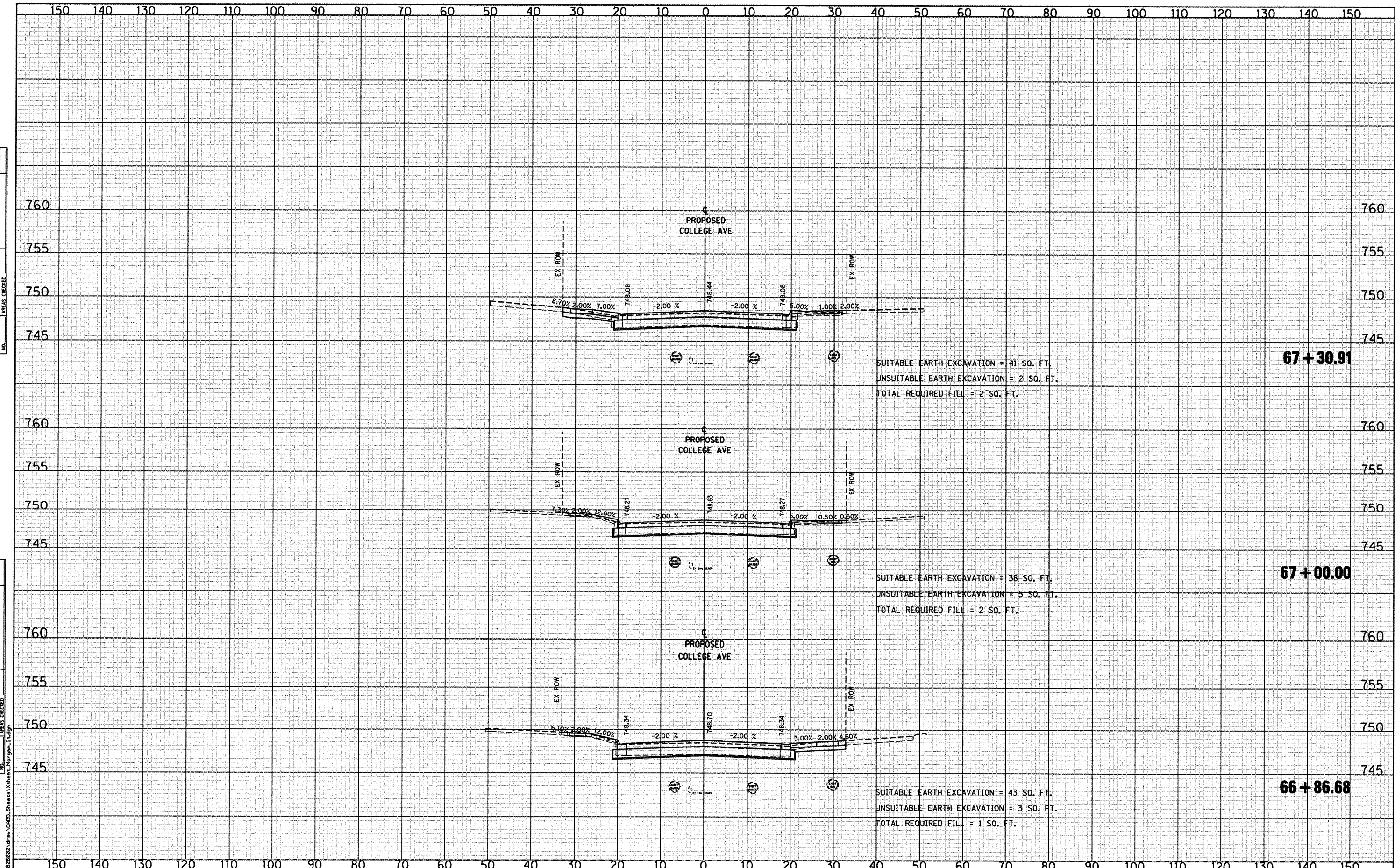
CITY OF ROCKFORD
MORGAN STREET BRIDGE

PROPOSED CROSS SECTIONS - COLLEGE AVENUE
 SCALE: SHEET NO. OF SHEETS STA. 66+19.54 TO STA. 66+50.00

F.R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	228
			CONTRACT NO. 85529	
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-509965				

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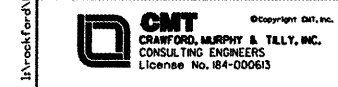
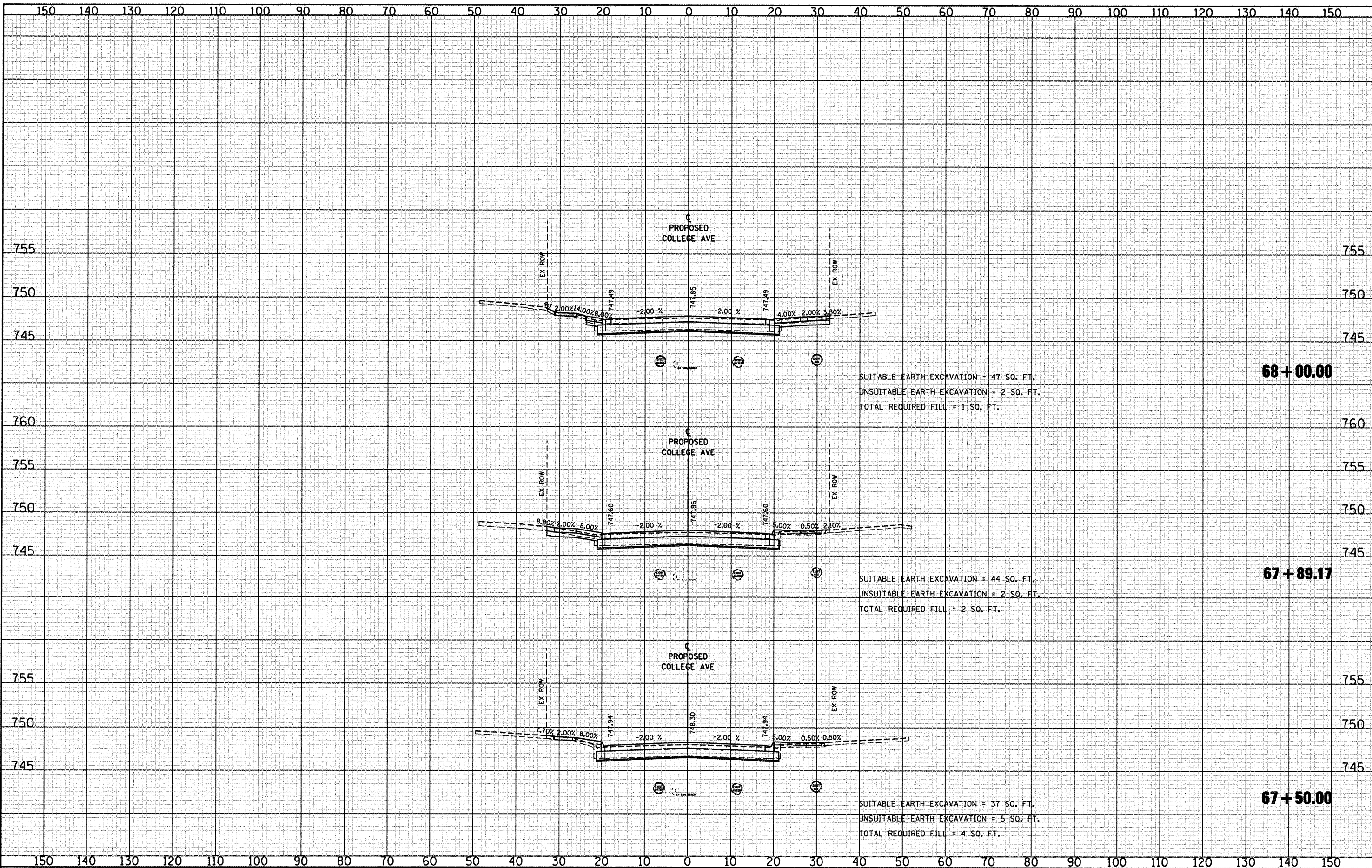
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DATE	
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AREAS CHECKED	
NOTE BOOK	
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NOTE BOOK	
SURVEY	
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DATE	
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AREAS CHECKED	



CMT CRAWFORD, MURPHY & TOLV, INC. CONSULTING ENGINEERS License No. 184-000613	USER NAME = Steve Prange DESIGNED - SJP / MNB DRAWN - ERD CHECKED - SJP PLOT DATE = 02/04/11	REVISED - REVISED - REVISED - REVISED -	CITY OF ROCKFORD MORGAN STREET BRIDGE	PROPOSED CROSS SECTIONS - COLLEGE AVENUE		F.A. RTE. 5077 SECTION 99-00493-00-BR COUNTY WINNEBAGO TOTAL SHEETS 253 SHEET NO. 229 CONTRACT NO. 85529
	SCALE:	SHEET NO. OF SHEETS		STA. 66+86.68 TO STA. 67+30.91	FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRW-5091651	

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

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



USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -
	DRAWN - ERD	REVISED -
PLOT SCALE = 20,000' / IN.	CHECKED - SJP	REVISED -
PLOT DATE = 02/04/11	DATE - 02/04/2011	REVISED -

**CITY OF ROCKFORD
MORGAN STREET BRIDGE**

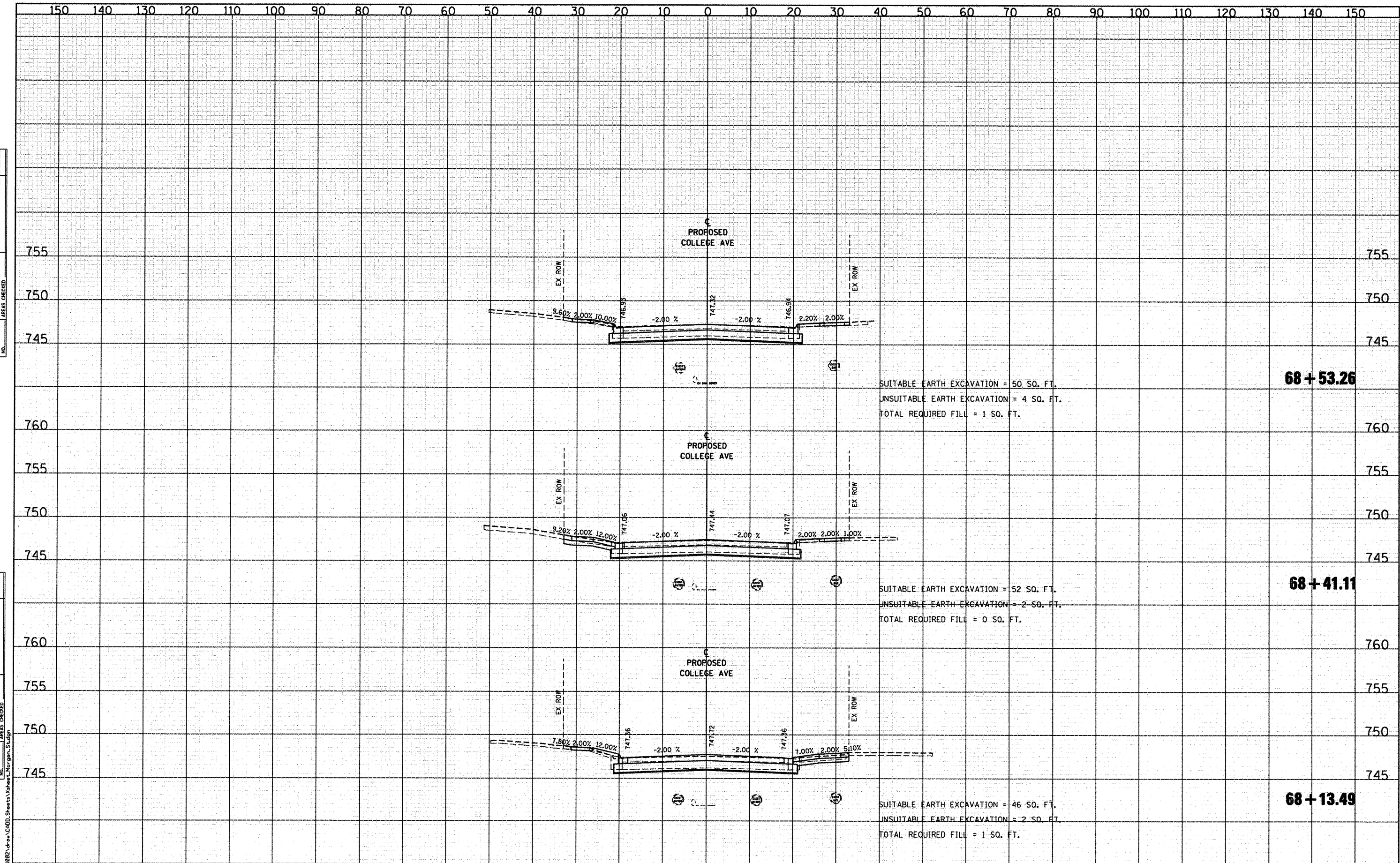
PROPOSED CROSS SECTIONS - COLLEGE AVENUE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	230
				CONTRACT NO. 85529

SCALE: SHEET NO. OF SHEETS STA. 67+50.00 TO STA. 68+00.00 FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRM-5099653

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NOTE BOOK	
AREAS CHECKED	

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CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -
	DRAWN - ERD	REVISED -
PLOT SCALE = 20,000 / IN.	CHECKED - SJP	REVISED -
PLOT DATE = 02/04/11	DATE - 02/04/2011	REVISED -

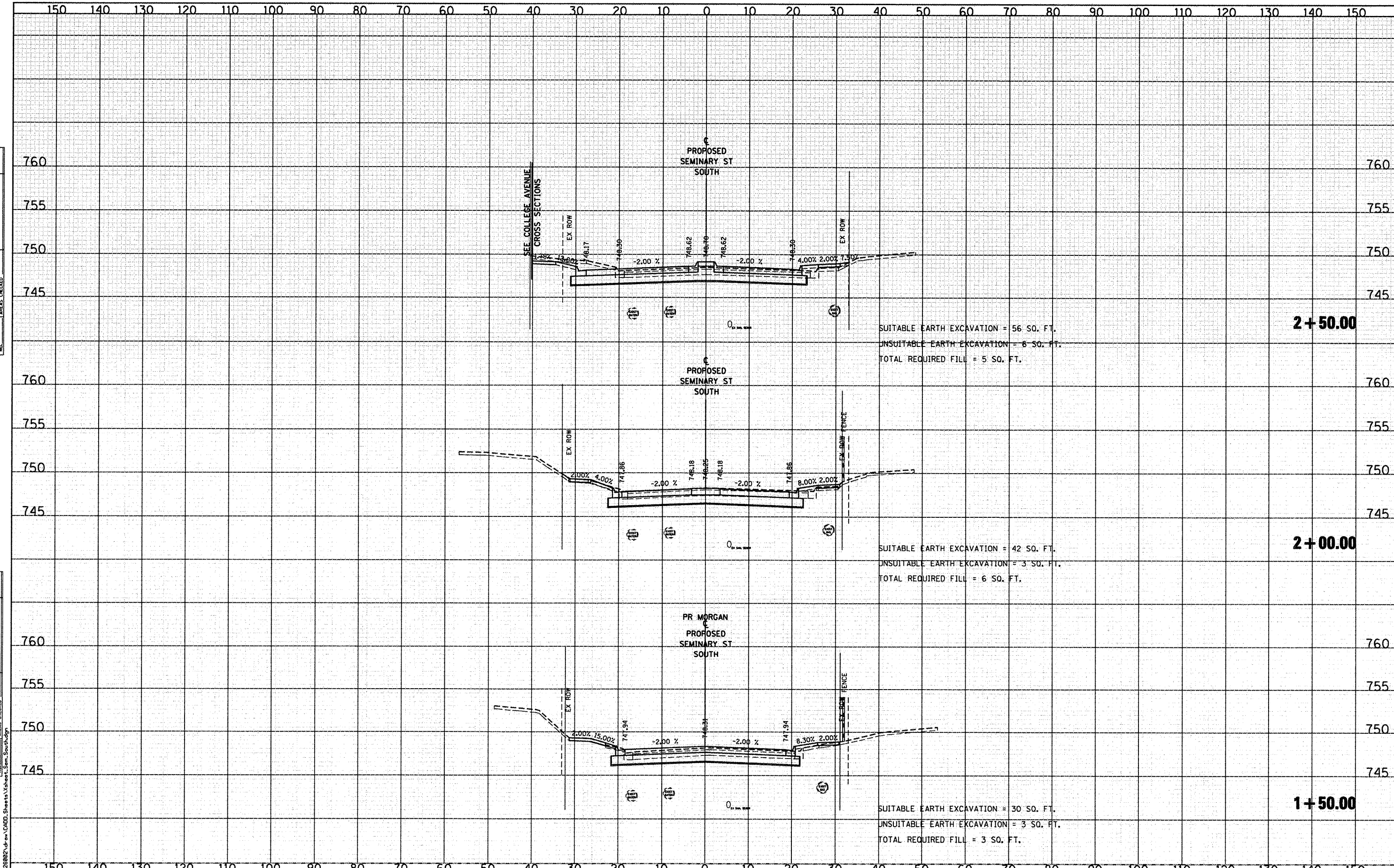
**CITY OF ROCKFORD
 MORGAN STREET BRIDGE**

PROPOSED CROSS SECTIONS - COLLEGE AVENUE			
SCALE:	SHEET NO.	OF SHEETS	STA. 68+13.49 TO STA. 68+53.26

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	231
CONTRACT NO. 85529				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRW-5099651				

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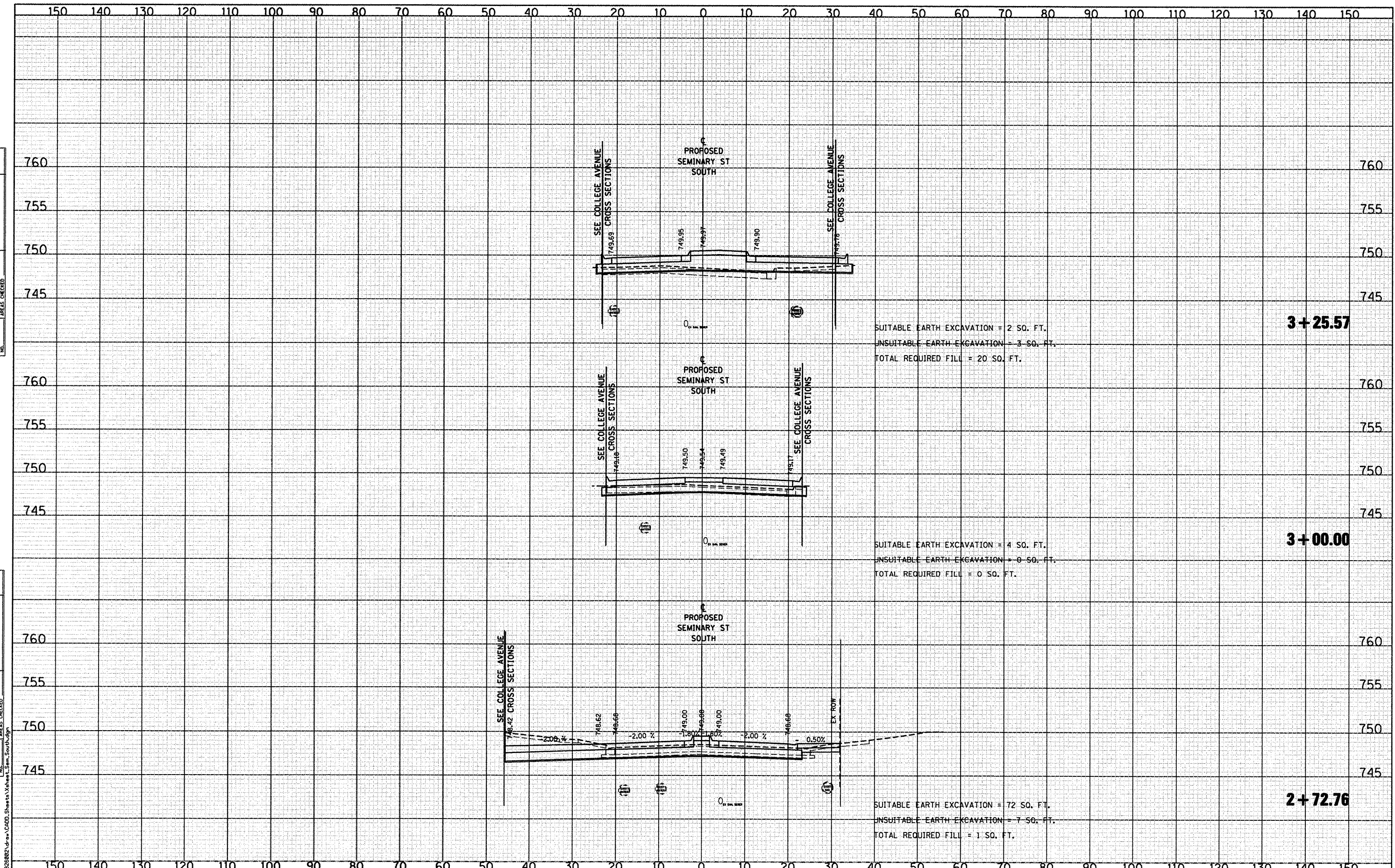
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CMT CRAWFORD, MURPHY & TILLY, INC. CONSULTING ENGINEERS License No. 084-000613	USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -	CITY OF ROCKFORD MORGAN STREET BRIDGE	PROPOSED CROSS SECTIONS - SEMINARY STREET		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 20,0000' / IN.	DRAWN - ERD	REVISED -		5077	99-00493-00-BR	WINNEBAGO	253	233			
	PLOT DATE = 02/04/11	CHECKED - SJP	REVISED -		SCALE:		SHEET NO.	OF	SHEETS	STA. 1+50.00	TO STA. 2+50.00	CONTRACT NO. 85529
		DATE - 02/04/2011	REVISED -								FED. ROAD DIST. NO. 2 ILLINOIS	FED. AID PROJECT BRM-509966

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FINAL SURVEY NOTE BOOK NO.	

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SURVEYED	
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TEMPLATE	
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CHECKED	
ORIGINAL SURVEY NOTE BOOK NO.	



CMT
 CHAMBERLAIN, MURPHY & TULLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

USER NAME = Steve Frange	DESIGNED - SJP / MNB	REVISED -
PLOT SCALE = 20,0000 / IN.	DRAWN - ERD	REVISED -
PLOT DATE = 02/04/11	CHECKED - SJP	REVISED -
	DATE - 02/04/2011	REVISED -

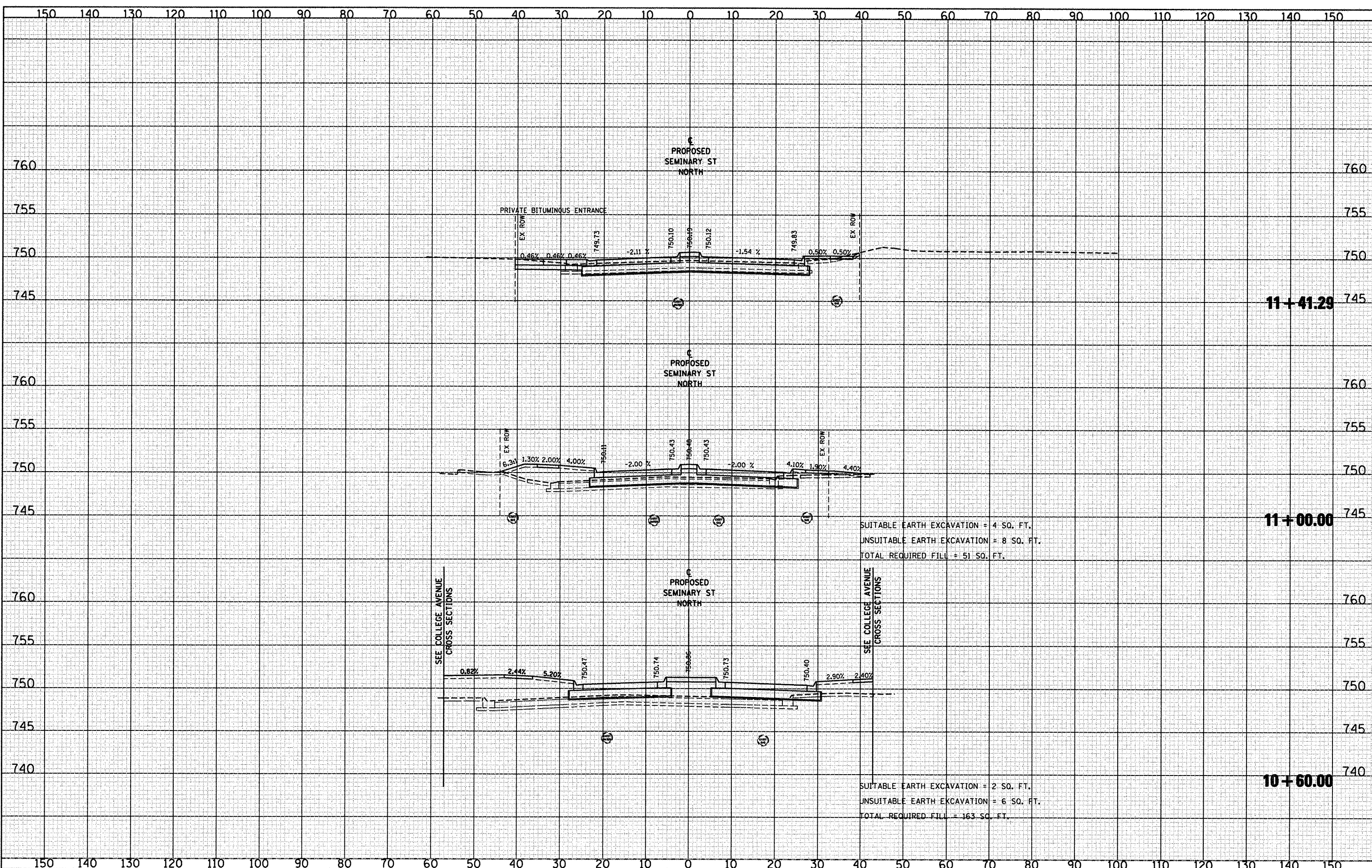
**CITY OF ROCKFORD
 MORGAN STREET BRIDGE**

PROPOSED CROSS SECTIONS - SEMINARY STREET			
SCALE:	SHEET NO. OF SHEETS	STA. 2+72.76 TO STA. 3+25.57	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	234
				CONTRACT NO. 85529
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-509165				

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NOTE BOOK	
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CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 04-00663

USER NAME	Steve Prange	DESIGNED	SJP / MNB	REVISED	-
		DRAWN	ERD	REVISED	-
		CHECKED	SJP	REVISED	-
		DATE	02/04/2011	REVISED	-
PLOT SCALE	20,0000' / IN.				
PLOT DATE	02/04/11				

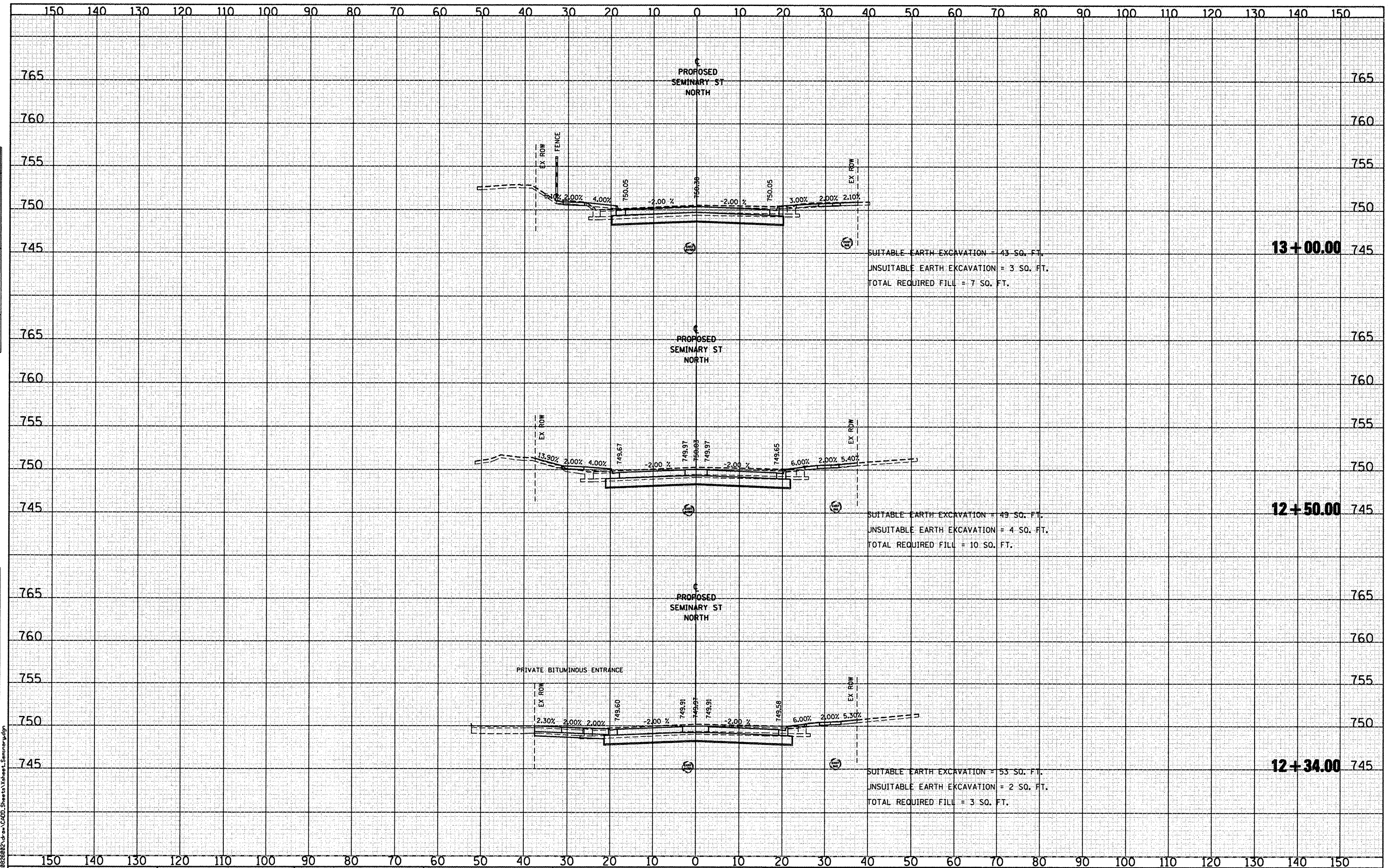
**CITY OF ROCKFORD
 MORGAN STREET BRIDGE**

PROPOSED CROSS SECTIONS - SEMINARY STREET			
SCALE:	SHEET NO.	OF SHEETS	STA. 10+60.00 TO STA. 11+41.29

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	235
CONTRACT NO. 85529			FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRM-509965	

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TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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CMT
CRAWFORD, MURPHY & TULLY, INC.
CONSULTING ENGINEERS
License No. 04-000613

USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -
PLOT SCALE = 20,000' / IN.	DRAWN - ERD	REVISED -
PLOT DATE = 02/04/11	CHECKED - SJP	REVISED -
	DATE - 02/04/2011	REVISED -

CITY OF ROCKFORD
MORGAN STREET BRIDGE

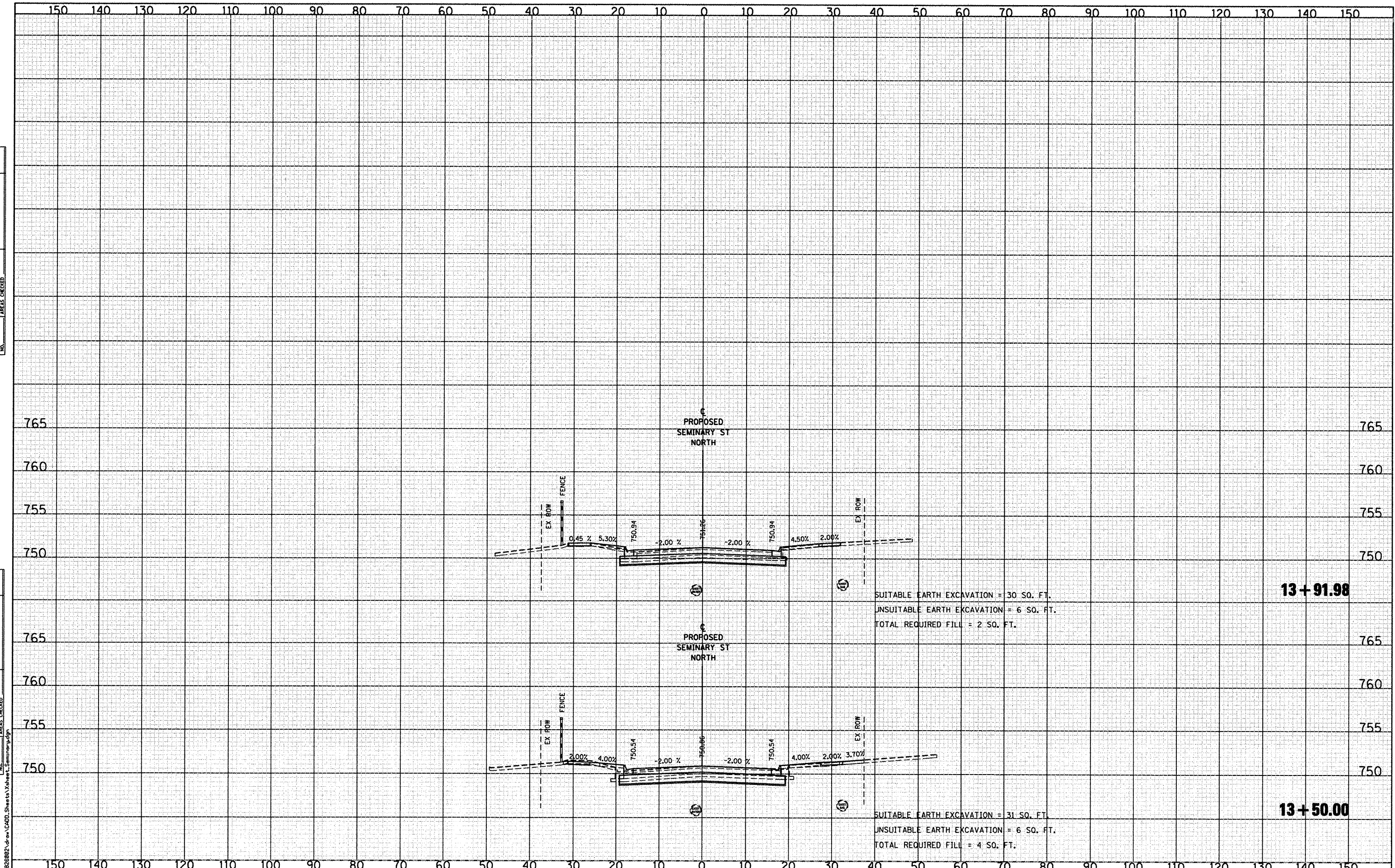
PROPOSED CROSS SECTIONS - SEMINARY STREET
SCALE: SHEET NO. OF SHEETS STA. 12+34.00 TO STA. 13+00.00

F.A. RTE. 5077	SECTION 99-00493-00-BR	COUNTY WINNEBAGO	TOTAL SHEETS 253	SHEET NO. 237
FED. ROAD DIST. NO. 2 ILLINOIS			FED. AID PROJECT BRM-5099653	

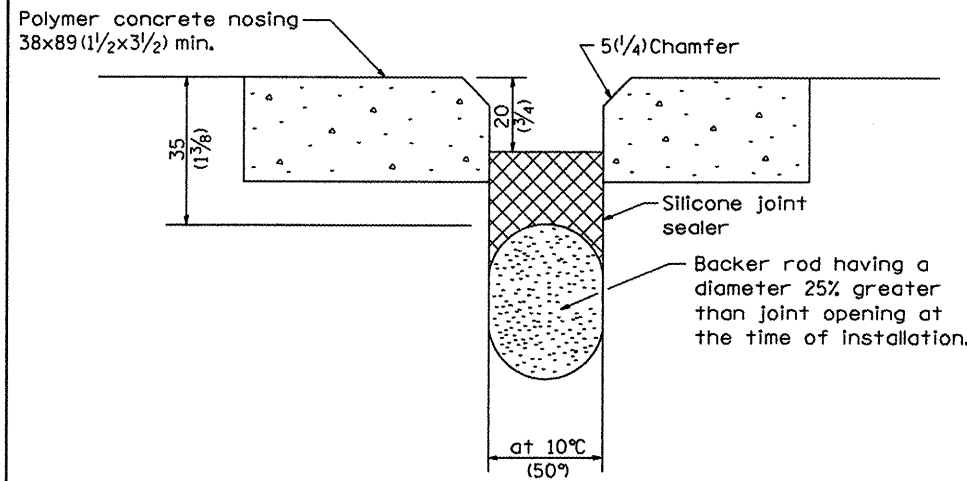
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ORIGINAL SURVEY	DATE
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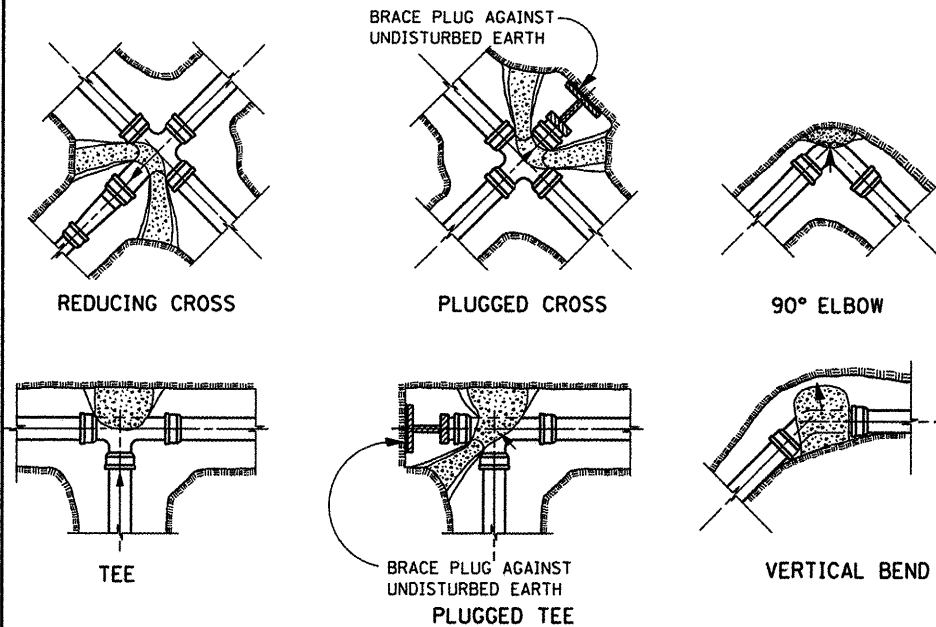


CMT CRANFORD, MURPHY & TILLY, INC. CONSULTING ENGINEERS License No. 184-000613	USER NAME = Steve Prange PLOT SCALE = 20,0000' / IN. PLOT DATE = 02/04/11	DESIGNED - SJP / MNB DRAWN - ERD CHECKED - SJP DATE - 02/04/2011	REVISED - REVISED - REVISED - REVISED -	CITY OF ROCKFORD MORGAN STREET BRIDGE	PROPOSED CROSS SECTIONS - SEMINARY STREET	F.A. RTE. 5077 SECTION 99-00493-00-BR COUNTY WINNEBAGO TOTAL SHEETS 253 SHEET NO. 238 CONTRACT NO. 85529	SCALE: SHEET NO. OF SHEETS STA. 13+50.00 TO STA. 13+91.98 FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-509965
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ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

SILICONE JOINT SEAL (CONCRETE DETAILS) 29.4



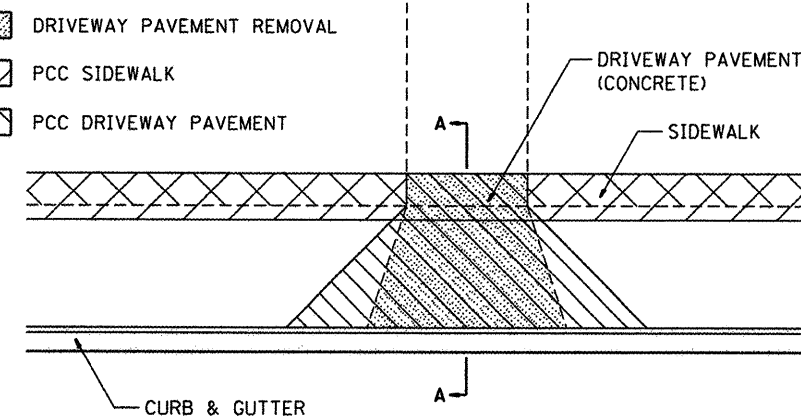
NOTES:

1. ALL BLOCKS TO BEAR AGAINST UNDISTURBED EARTH.
2. ARROWS INDICATE DIRECTION OF THRUST.
3. ALL BLOCKS TO BE CLASS SI CONCRETE.
4. ALL FITTINGS SHOWN IN PLAN EXCEPT VERTICAL BEND.
5. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

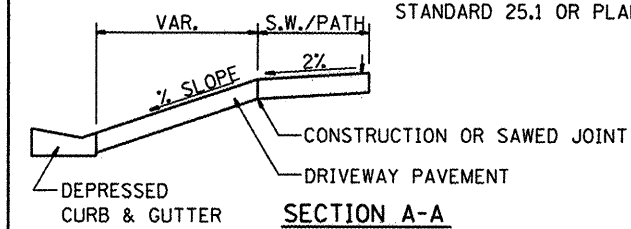
THRUST BLOCK DETAILS 34.4

PAY FOR AS

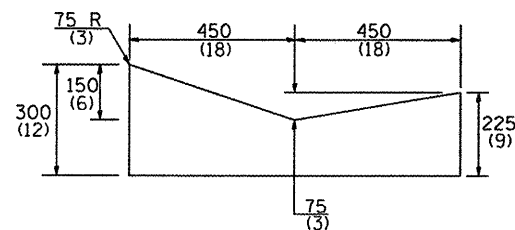
- SIDEWALK REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- PCC SIDEWALK
- PCC DRIVEWAY PAVEMENT



FOR DETAILS ON DIMENSIONS AND GRADES, SEE DISTRICT STANDARD 25.1 OR PLANS.



SIDEWALK AND DRIVEWAY PAVEMENT PAY AREAS 35.4



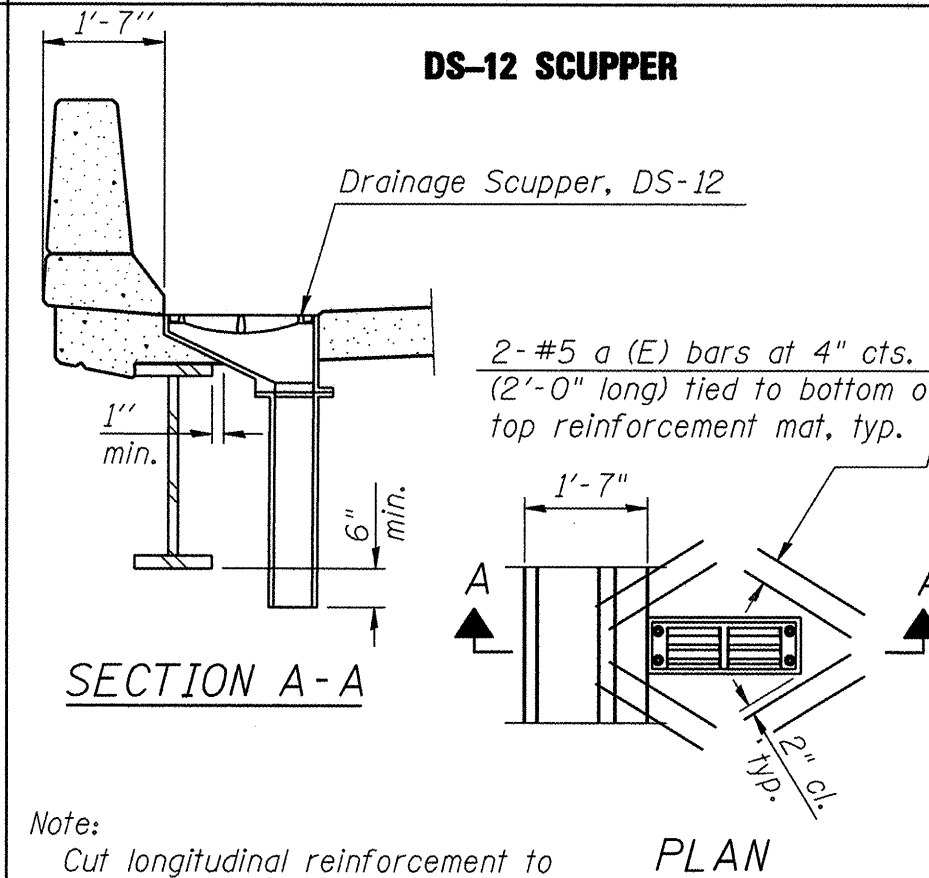
NOTES:

THIS WORK SHALL BE DONE IN ACCORDANCE WITH THIS DETAIL AND STANDARD 606101 THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER METER (FOOT) FOR CONCRETE GUTTER, TYPE A (SPECIAL).

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

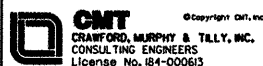
CONCRETE GUTTER, TYPE A (SPECIAL) 36.4

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Note:
Cut longitudinal reinforcement to clear drainage scuppers.

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USER NAME = Steve Prange
DESIGNED - SJP / MNB
DRAWN - ERD
CHECKED - SJP
DATE - 02/04/2011

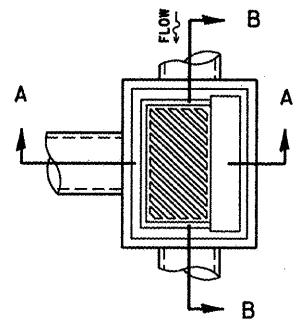
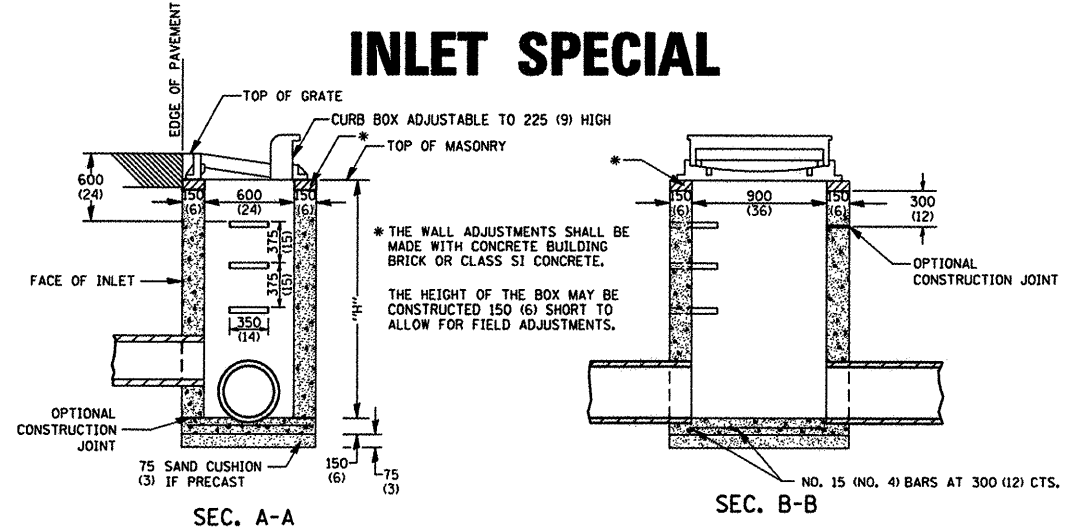
REVISIONS:
REVISED -
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REVISED -

**CITY OF ROCKFORD
MORGAN STREET BRIDGE**

IDOT D2 / CITY STANDARD DRAWINGS - 1

SCALE: N/A SHEET NO. 1 OF 15 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	239
CONTRACT NO. 85529			FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRM-5099651	



NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS.

EXCEPT AS NOTED HEREON INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.

ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.

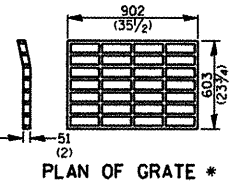
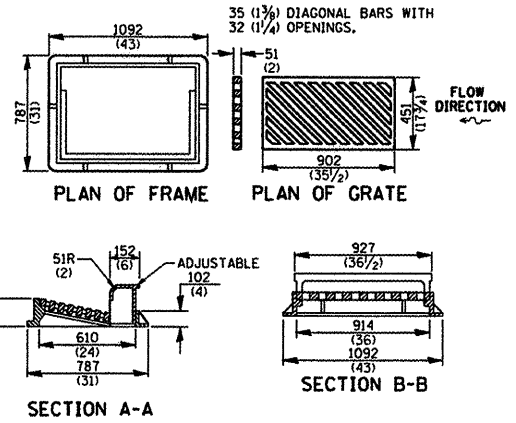
WEIGHT OF CAST IRON FRAME & GRATE = 240 kg (530 lbs.) ± . STEPS SHALL BE OMITTED WHEN DEPTH OF "H" IS LESS THAN 1.5 m (5 ft.).

DETAIL OF FRAME & GRATE

NOTES

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 27.5 MPa (4,000 psi) AFTER 28 DAYS.

THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE CAST IRON STEPS (IF USED), THE PRECAST FLOOR SLABS, SAND CUSHION (WHEN USED) AND REINFORCEMENT BARS.



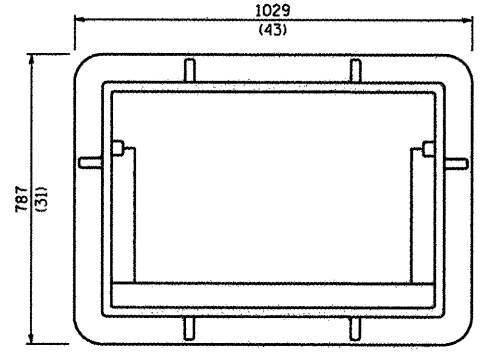
* THIS GRATE TO BE USED WITHOUT CURB BOX WHEN INLET IS IN DRIVEWAY.

REVISED - 11-10-94

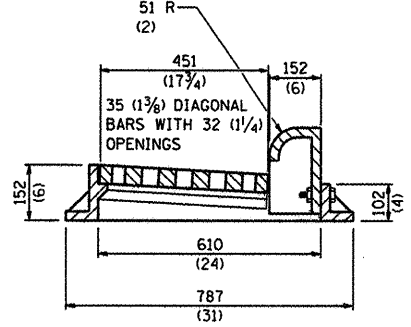
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

INLET SPECIAL 10.2

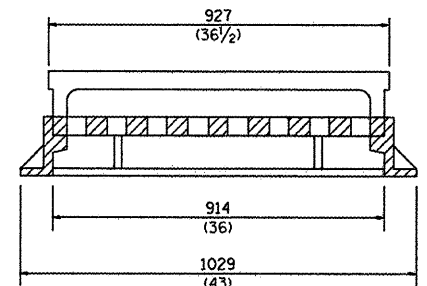
FRAME AND GRATE FOR INLET SPECIAL



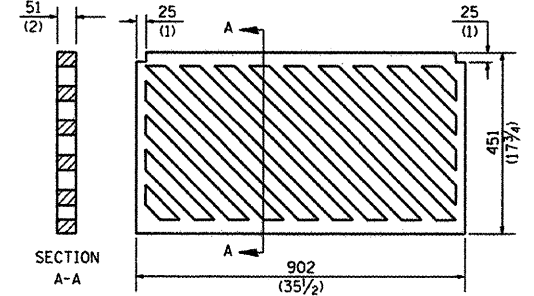
PLAN OF FRAME WITHOUT GRATE AND CURB BOX



TRANSVERSE SECTION



LONGITUDINAL SECTION



PLAN OF GRATE

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISED - 9-25-92

R 3067
APPROXIMATE WEIGHT - 231 Kg. (510 LBS.)

FRAME AND GRATE FOR INLET SPECIAL 13.2c

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USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -
PLOT SCALE = 50.0000 / IN.	DRAWN - ERD	REVISED -
PLOT DATE = 02/04/11	CHECKED - SJP	REVISED -
	DATE = 02/04/2011	REVISED -

**CITY OF ROCKFORD
MORGAN STREET BRIDGE**

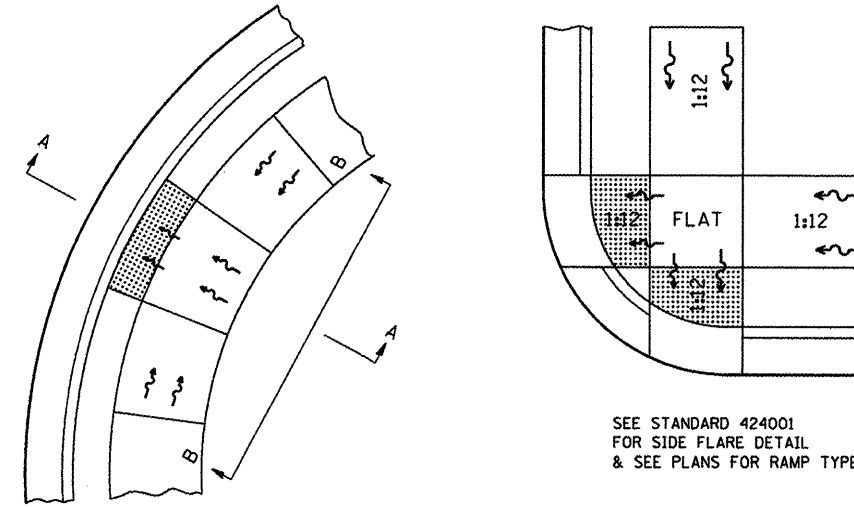
IDOT D2 /CITY STANDARD DRAWINGS - 2

SCALE: N/A SHEET NO. 2 OF 15 SHEETS STA. TO STA.

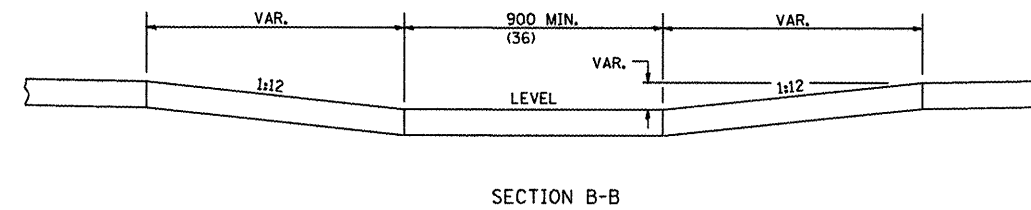
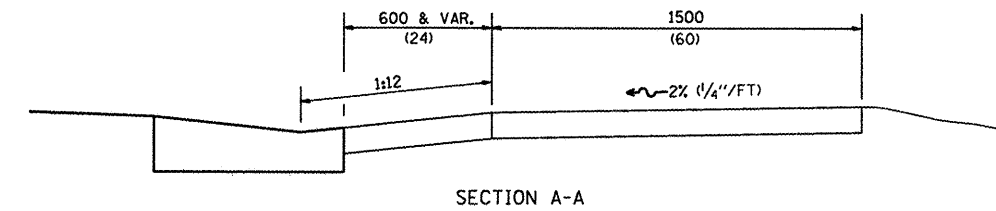
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	240
CONTRACT NO. 85529			FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRM-509965	

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DISABLED RAMP DETAIL



ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



NOTES : THIS DETAIL TO BE USED IN CONJUNCTION WITH STATE STANDARD 424001.
 THE MAXIMUM ALLOWABLE CROSS SLOPE FOR SIDEWALK IS 2% (1/4\"/>

REVISED - 9-19-05

DISABLED RAMP DETAIL 60.2

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CMT CRAWFORD, MURPHY & TILLY, INC. CONSULTING ENGINEERS License No. 084-00063	USER NAME = Steve Prange PLOT SCALE = 50,0000' / IN. PLOT DATE = 02/04/11	DESIGNED - SJP / MNB DRAWN - ERD CHECKED - SJP DATE - 02/04/2011	REVISED - REVISED - REVISED - REVISED -	CITY OF ROCKFORD MORGAN STREET BRIDGE	IDOT D2 /CITY STANDARD DRAWINGS - 3	F.A. RTE. 5077 SECTION 99-00493-00-BR COUNTY WINNEBAGO TOTAL SHEETS 253 SHEET NO. 241 CONTRACT NO. 85529	SCALE: N/A SHEET NO. 3 OF 15 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRM-509965

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USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -
	DRAWN - ERD	REVISED -
PLOT SCALE = 50.0000' / IN.	CHECKED - SJP	REVISED -
PLOT DATE = 02/04/11	DATE - 02/04/2011	REVISED -

**CITY OF ROCKFORD
MORGAN STREET BRIDGE**

IDOT D2 /CITY STANDARD DRAWINGS - 4

SCALE: N/A SHEET NO. 4 OF 15 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	242
			CONTRACT NO. 85529	
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-509965				

PC CONCRETE ISLANDS AND MEDIANS ACCESSIBLE TO THE DISABLED

General Notes:

See Standard 606301 and plan sheets for station & offsets, radii, dimensions, and details not shown.

The sidewalk should drain to the low side of the island. If necessary the sidewalk shall be sloped to drain at a maximum 2% grade.

See the plan general notes for the type of curb & gutter to be used on islands.

Curb & gutter adjacent to the walkway in the interior of the island shall have 150 (6) gutter flags.

The sidewalk should not be closer than 900 (36) from the corner of the island.

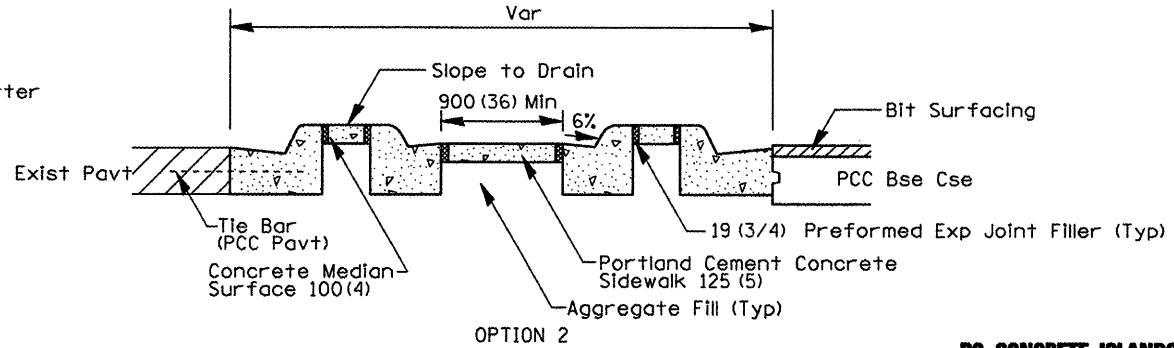
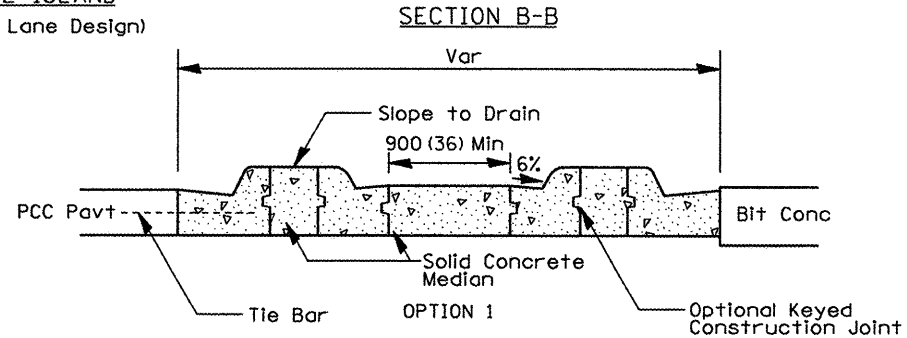
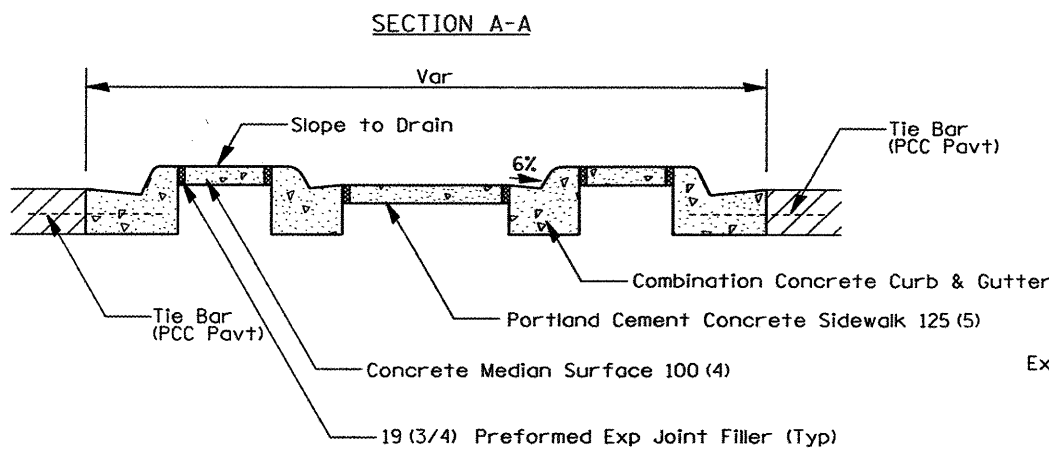
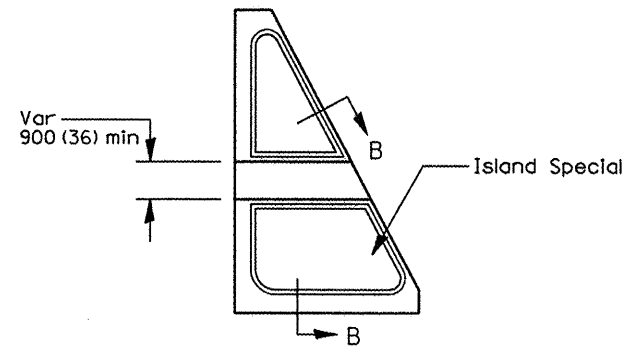
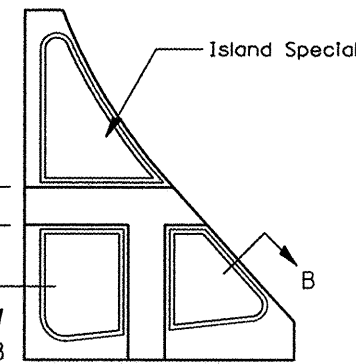
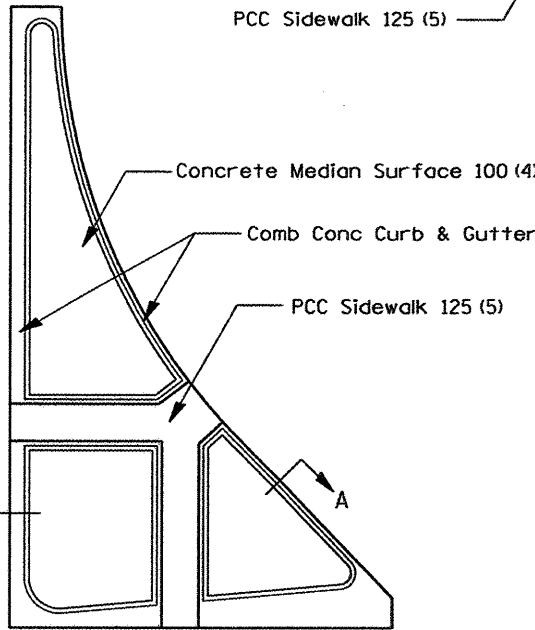
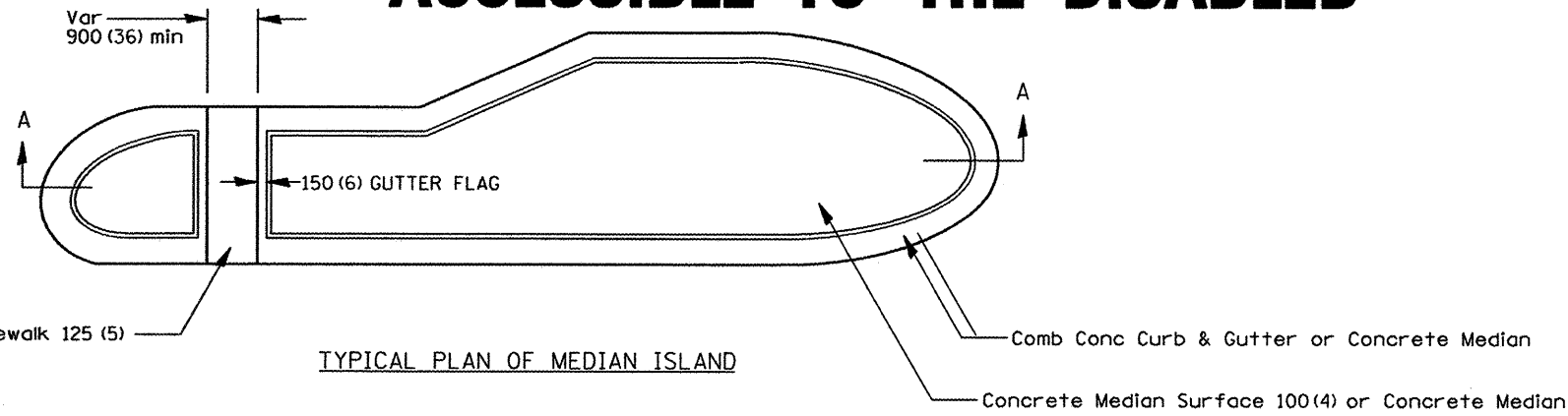
Keyed longitudinal construction joints shall be constructed without tie bars.

Medians and large islands shall consist of PCC Sidewalk 125 (5), Concrete Median Surface 100 (4), and Combination Concrete Curb & Gutter, Type M or B of the size specified. Median island can also be solid concrete medians.

Locations, layouts, and widths of the flush sidewalk area, shall be determined by the designer and shown on the plans.

The intermediate and small islands will be measured for payment from E.O.P. to E.O.P. using either option 1 or option 2, as directed by the Engineer, and will be paid for at the contract unit price per SQ M (SQ YD) for ISLAND SPECIAL, which shall include the combination curb & gutter, sidewalk, aggregate fill, concrete median surface, and solid concrete median.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



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USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED - 6-9-03
DRAWN - ERD	CHECKED - SJP	REVISIONS
PLOT SCALE = 48,0000' / IN.	DATE = 02/04/2011	
PLOT DATE = 02/04/11		

**CITY OF ROCKFORD
MORGAN STREET BRIDGE**

IDOT D2 /CITY STANDARD DRAWINGS - 5

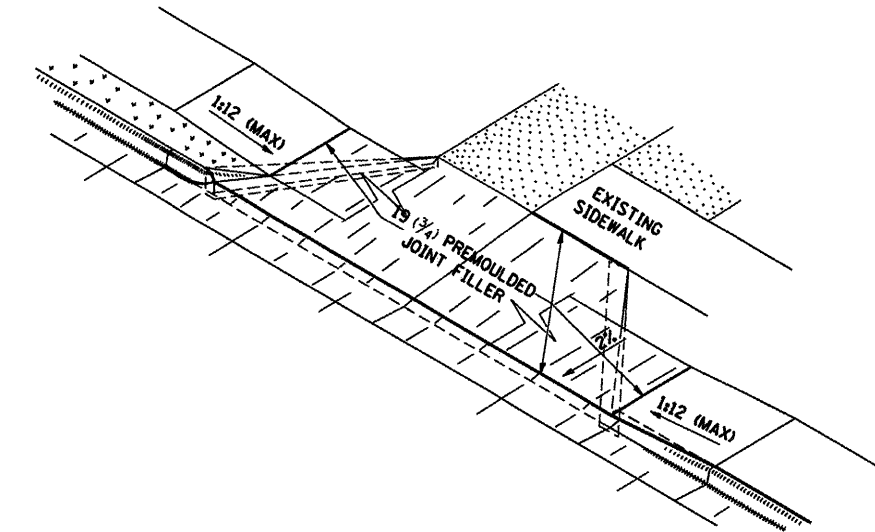
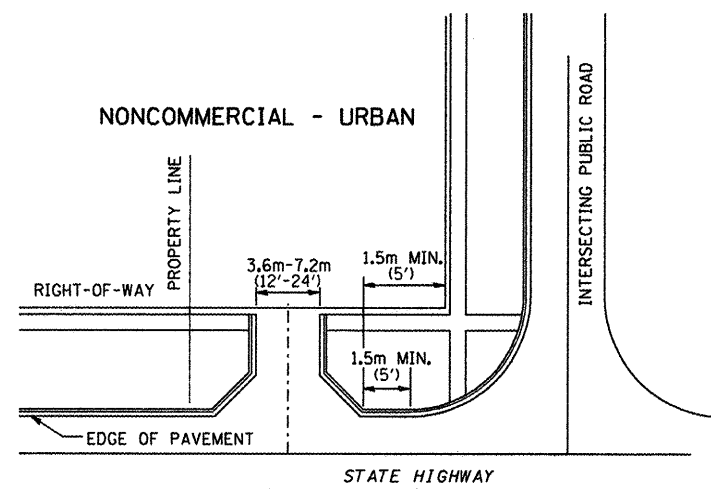
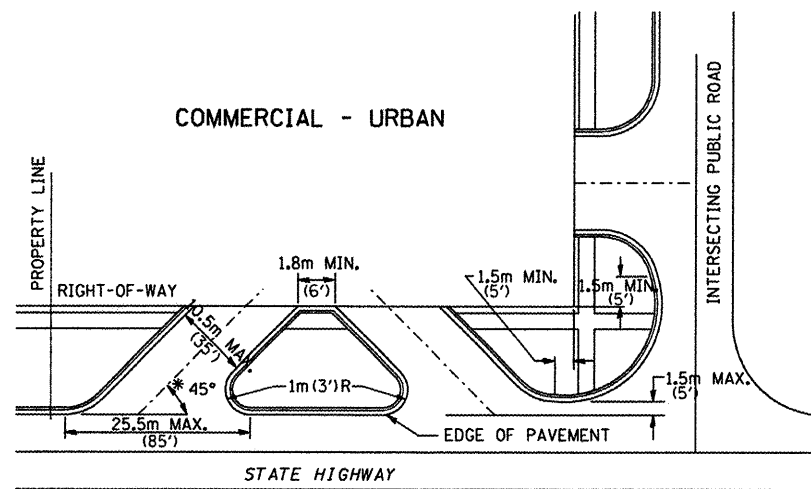
SCALE: N/A SHEET NO. 5 OF 15 SHEETS STA. TO STA.

PC CONCRETE ISLANDS AND MEDIANS ACCESSIBLE TO THE DISABLED 4.1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	243
CONTRACT NO. 85529			FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRM-509965	

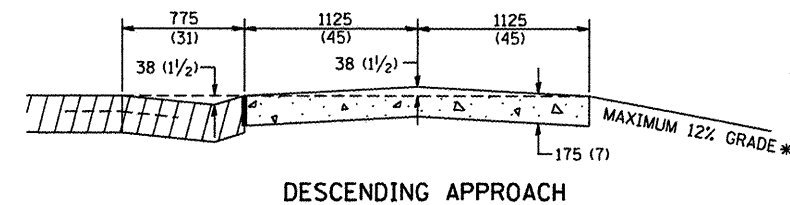
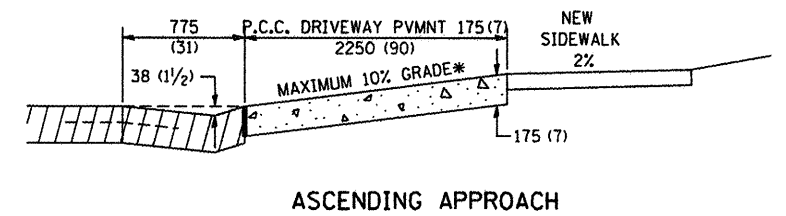
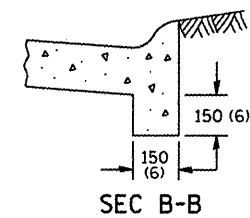
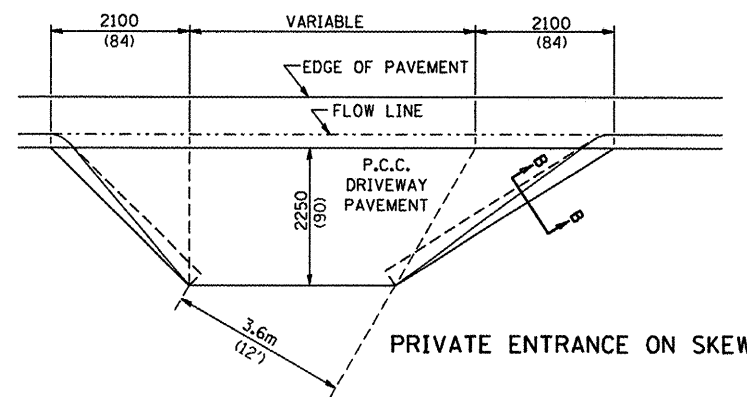
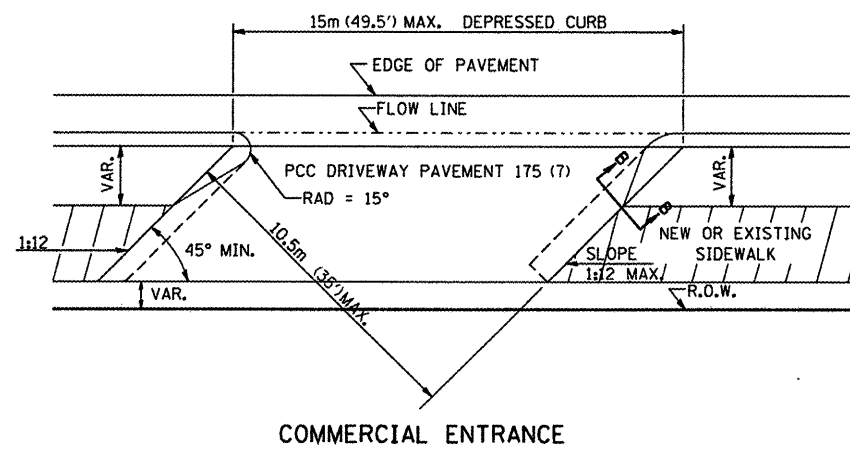
ENTRANCE APPROACHES – URBAN AREA

TYPICAL APPLICATION OF ENTRANCES

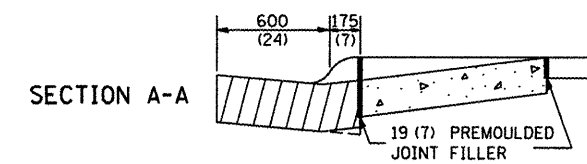
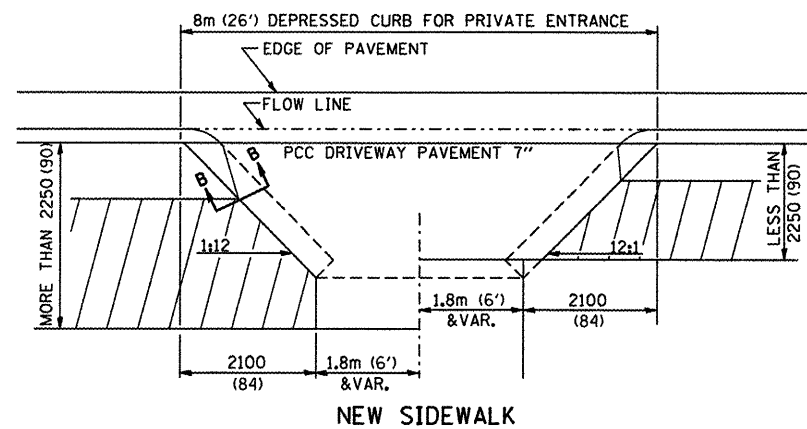
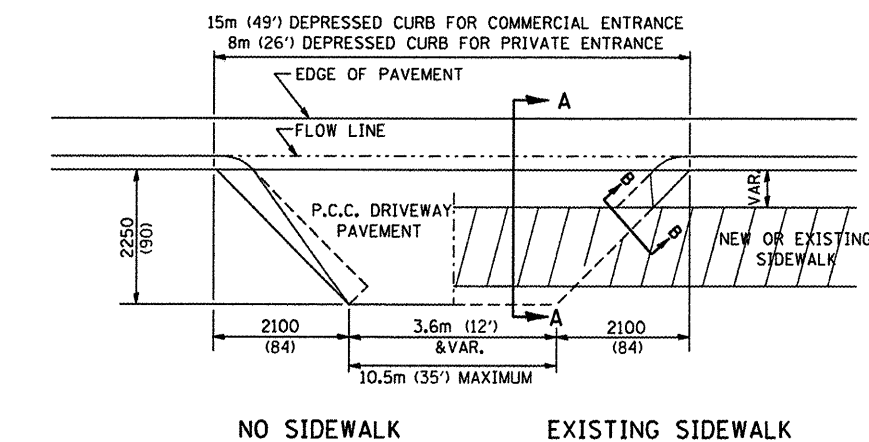


WHEN THE ISLAND BETWEEN DRIVES IS LESS THAN 7.5m (25') LONG OR LESS THAN 10 FEET WIDE, IT SHALL BE DEFINED BY CURBS, MASONRY, OR OTHER DEVICES.

* 45° MIN. ANGLE PERMITTED ONLY FOR ONE-WAY DRIVEWAYS. 60° MIN. ANGLE FOR TWO-WAY DRIVEWAYS.



* IN CASES WHERE GRADE EXCEEDS 10%, THE RESIDENT ENGINEER SHALL CHECK WITH DISTRICT DESIGN OFFICE TO DETERMINE NEW APPROACH GRADE. PARTICULAR ATTENTION SHALL BE PAID TO THE NEGATIVE GRADE TO PREVENT DRAINAGE FROM OVER FLOWING INTO THE PRIVATE ENTRANCE.



THE VARIABLE HEIGHT INTEGRAL CURB AND PREMOULDED JOINT FILLER WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE OF DRIVEWAY PAVEMENT OF THE THICKNESS SPECIFIED.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

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USER NAME = Steve Prange
 PLOT SCALE = 40,0000 * / IN.
 PLOT DATE = 02/04/11

DESIGNED - SJP / MNB
 DRAWN - ERD
 CHECKED - SJP
 DATE - 02/04/2011

REVISED - 1-11-08
 REVISED -
 REVISED -
 REVISED -

**CITY OF ROCKFORD
 MORGAN STREET BRIDGE**

IDOT D2 /CITY STANDARD DRAWINGS - 6

SCALE: N/A SHEET NO. 6 OF 15 SHEETS STA. TO STA.

ENTRANCE APPROACHES – URBAN AREA 25.1

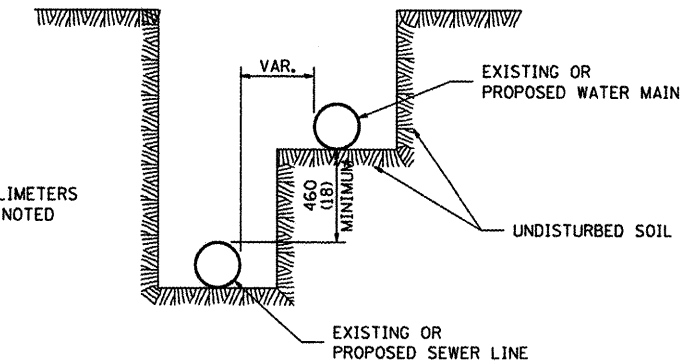
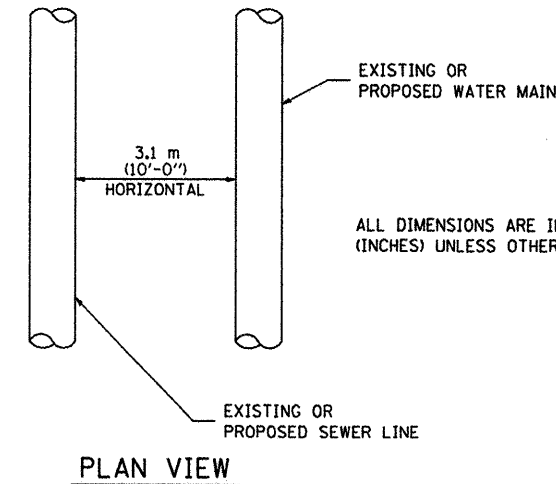
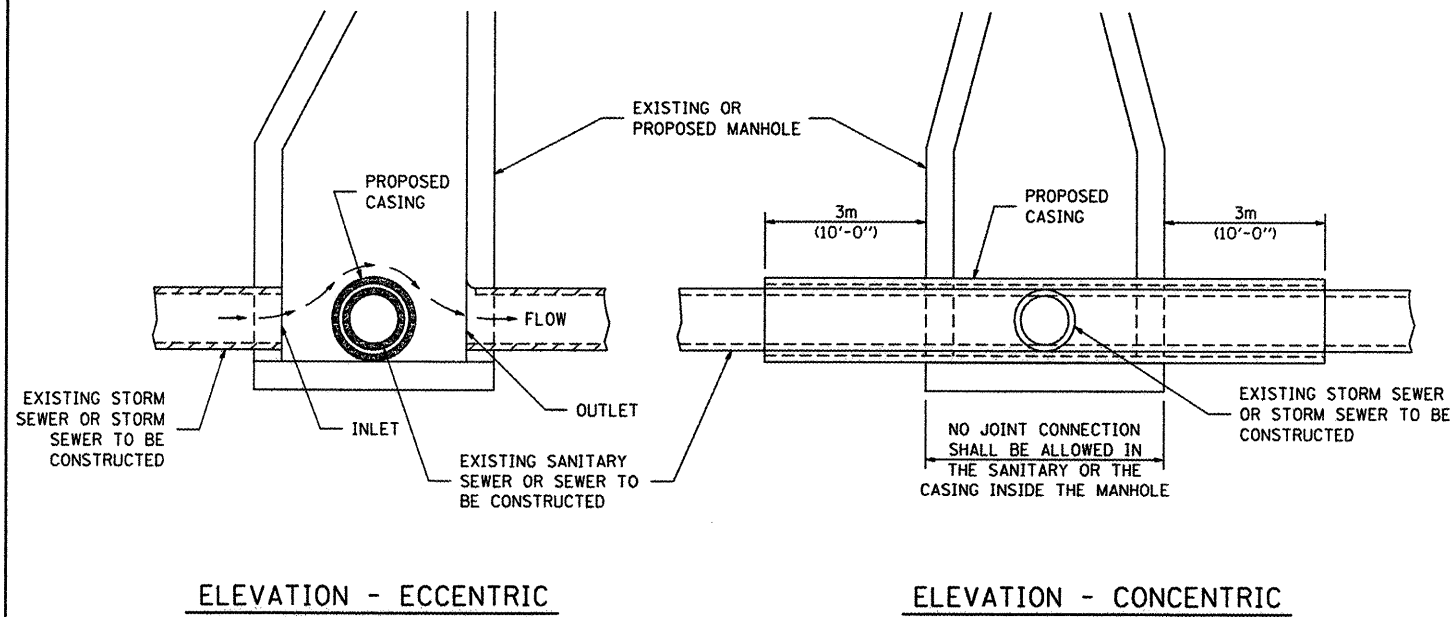
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	244
				CONTRACT NO. 85529
FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRM-5099661				

SEWER AND WATER MAIN CROSSINGS

THIS DETAIL IS FOR UNKNOWN UTILITIES UNLESS QUANTITIES ARE INCLUDED IN THE PLANS THE EXTRA WORK WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04.

WHEN PROPOSED SEWER (OR WATER) IS LOCATED 3.1 m (10'-0") OR MORE FROM EXISTING WATER (OR SEWER) NO SPECIAL CONSTRUCTION REQUIRED.

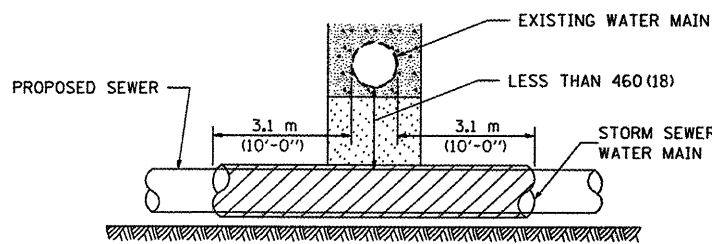
WHEN PROPOSED SEWER (OR WATER) IS LOCATED LESS THAN 3.1 m (10'-0") FROM EXISTING WATER (OR SEWER) DETAILS BELOW SHALL APPLY.



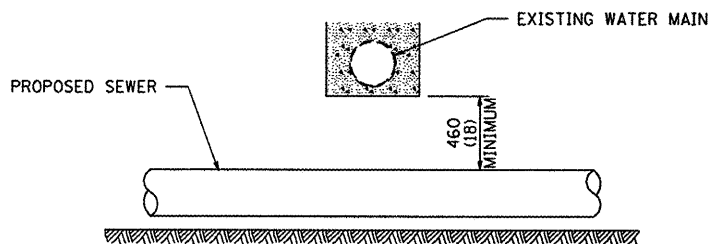
AT GRADE CROSSING OF SANITARY AND STORM SEWER

WATER AND SEWER HORIZONTAL SEPARATION REQUIREMENTS

POINT LOADS SHALL NOT BE ALLOWED BETWEEN SEWER OR SEWER CASING AND WATER MAIN
 PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH



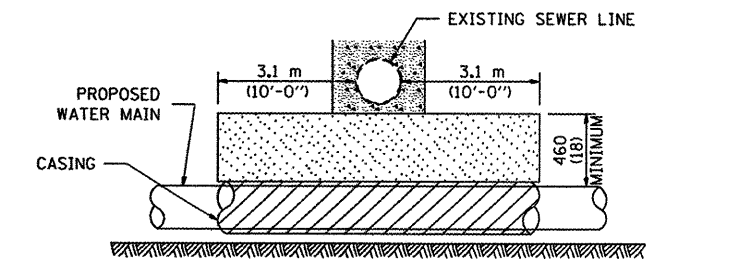
PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH
 MAINTAIN 460 (18) MINIMUM VERTICAL SEPARATION FOR 3.1m (10') HORIZONTALLY



ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED

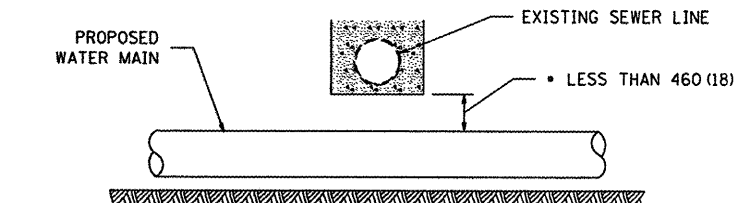
PROPOSED SEWER LINE BELOW EXISTING WATER MAIN

PROVIDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT
 PLACE TRENCH BACKFILL FOR 3.1 m (10') ON EITHER SIDE OF SEWER LINE



CASING SHALL BE CAST IRON WITH AN INSIDE DIAMETER 50 (2) LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH
 MAINTAIN 460 (18) MINIMUM VERTICAL SEPARATION FOR 3.1 m (10') HORIZONTALLY

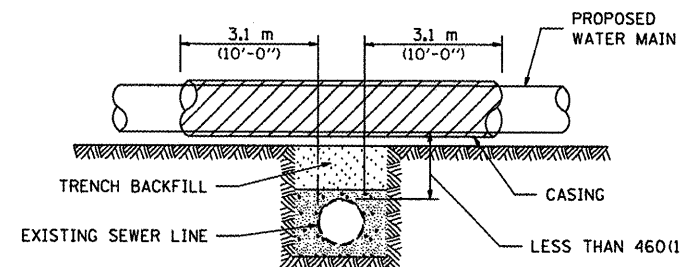


• NOT ALLOWED
 MUST MAINTAIN 460 (18) VERTICAL SEPARATION

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED

PROPOSED WATER MAIN BELOW EXISTING SEWER LINE

POINT LOADS SHALL NOT BE ALLOWED BETWEEN WATER MAIN OR WATER MAIN CASING AND SEWER

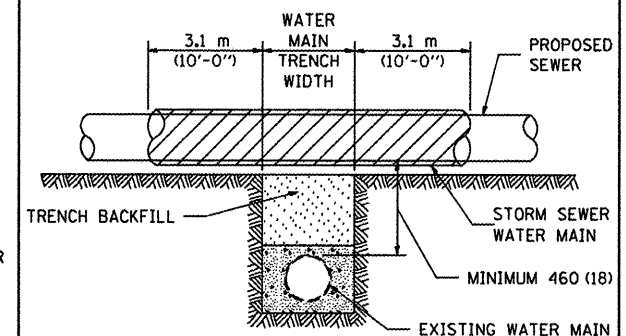


CASING SHALL BE CAST IRON WITH AN INSIDE DIAMETER 50 (2) LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED

PROPOSED WATER MAIN ABOVE EXISTING SEWER LINE

PROVIDE ADEQUATE SUPPORT FOR SEWER TO PREVENT SETTLING AND BREAKING THE WATER MAIN.



ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED

EXISTING WATER MAIN BELOW PROPOSED SEWER LINE WITH MINIMUM 460 (18) VERTICAL SEPARATION

SEWER AND WATER MAIN CROSSINGS 32.1

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USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED - 10-15-04
PLLOT SCALE = 40,0000' / IN.	DRAWN - ERO	REVISED -
PLLOT DATE = 02/04/11	CHECKED - SJP	REVISED -
	DATE - 02/04/2011	REVISED -

**CITY OF ROCKFORD
 MORGAN STREET BRIDGE**

IDOT D2 /CITY STANDARD DRAWINGS - 7

SCALE: N/A SHEET NO. 7 OF 15 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	245
CONTRACT NO. 85529				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-509965				

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CMT
 CRAWFORD, MURPHY & TULLY, INC.
 CONSULTING ENGINEERS
 License No. 184-000613

USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED -
	DRAWN - ERD	REVISED -
PLOT SCALE = 40,0000 ' / IN.	CHECKED - SJP	REVISED -
PLOT DATE = 02/04/11	DATE - 02/04/2011	REVISED -

**CITY OF ROCKFORD
 MORGAN STREET BRIDGE**

IDOT D2 /CITY STANDARD DRAWINGS - 9

SCALE: N/A SHEET NO. 9 OF 15 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	247
CONTRACT NO. 85529				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-5099(65)				

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USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED - 1-11-08
	DRAWN - ERD	REVISED -
PLOT SCALE = 48,0000' / IN.	CHECKED - SJP	REVISED -
PLOT DATE = 02/04/11	DATE - 02/04/2011	REVISED -

**CITY OF ROCKFORD
MORGAN STREET BRIDGE**

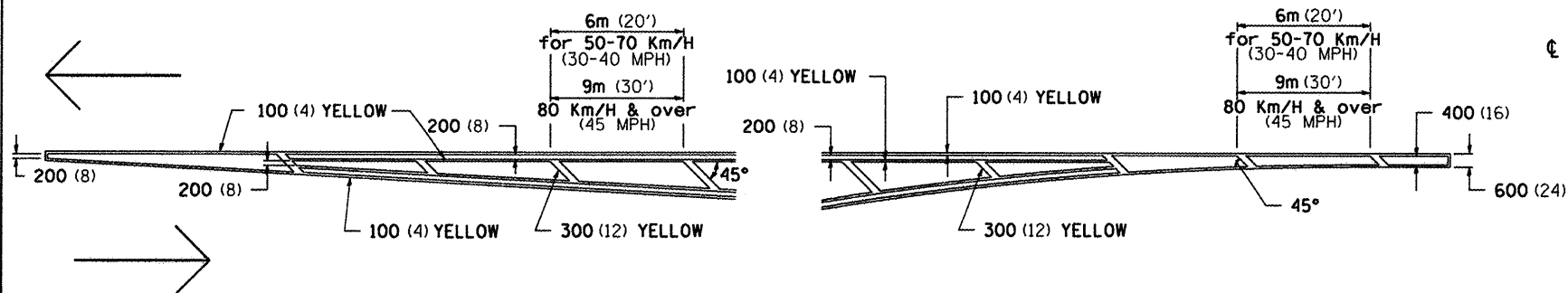
IDOT D2 /CITY STANDARD DRAWINGS - 10

SCALE: N/A SHEET NO. 10 OF 15 SHEETS STA. TO STA.

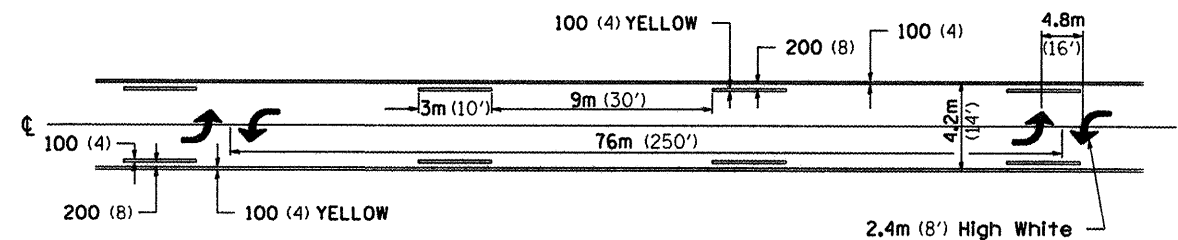
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	248
CONTRACT NO. 85529				
<small>FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-509965</small>				

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

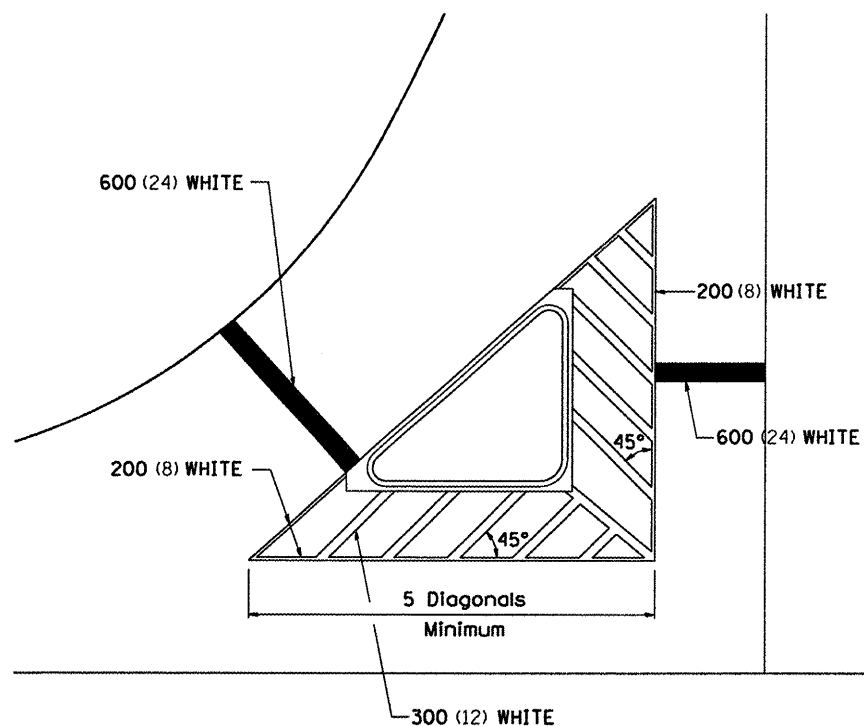


MEDIAN PAVEMENT MARKING

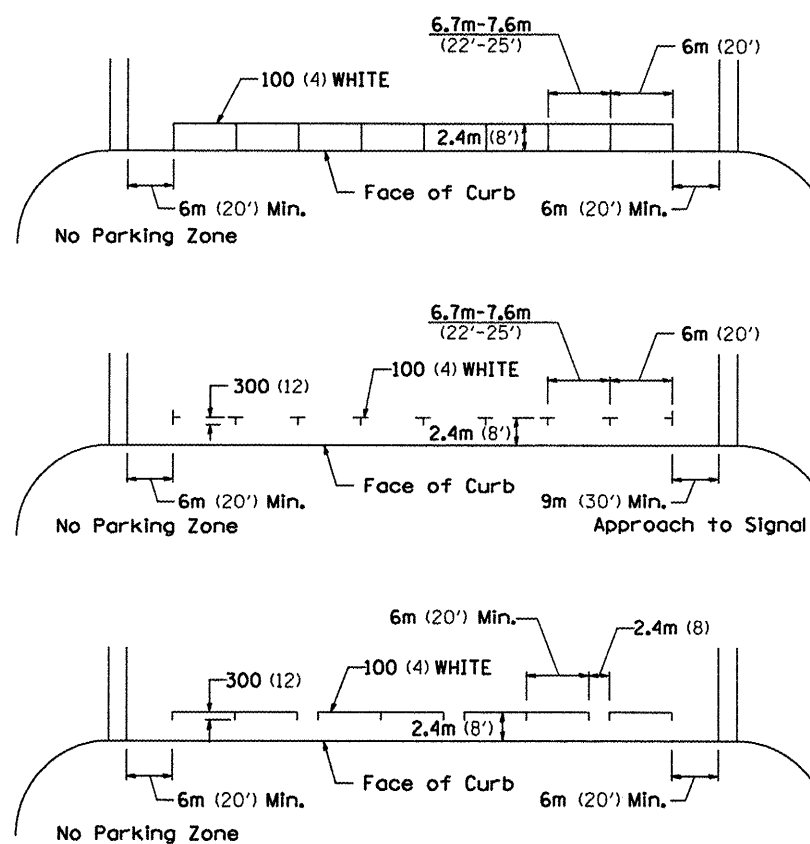


•• ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH

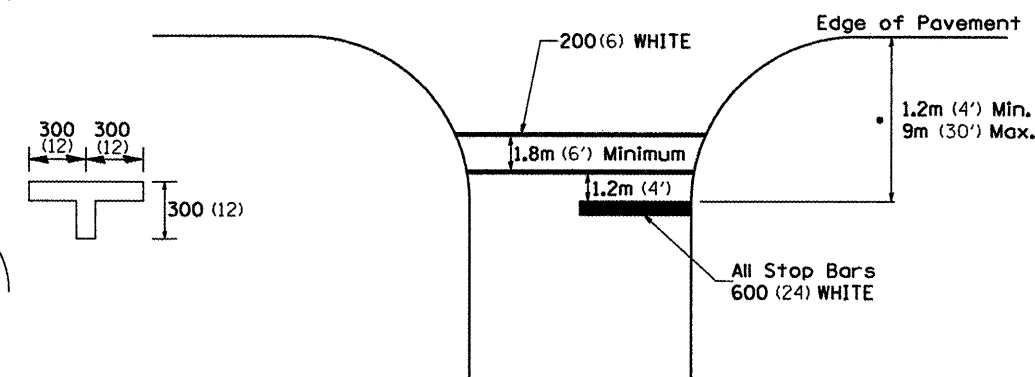


TYPICAL PARKING SPACING



STANDARD CROSSWALK MARKING

See Schedules for Locations



• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

TYPICAL PAVEMENT MARKINGS SHEET 1 OF 3 41.1



USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED - 10-21-08
PLOT SCALE = 40,0000 / IN.	DRAWN - ERD	REVISED -
PLOT DATE = 02/04/11	CHECKED - SJP	REVISED -
	DATE - 02/04/2011	REVISED -

CITY OF ROCKFORD
MORGAN STREET BRIDGE

IDOT D2 / CITY STANDARD DRAWINGS - 11

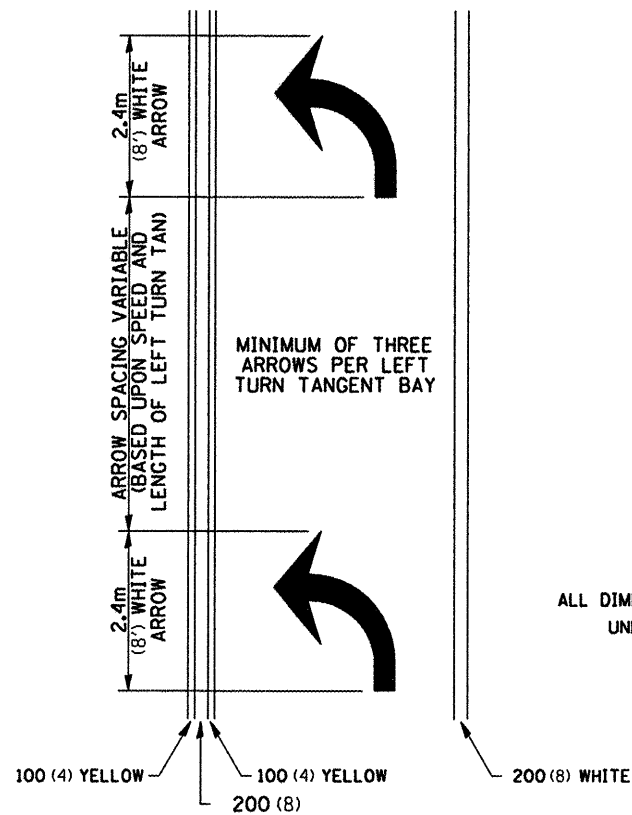
SCALE: N/A SHEET NO. 11 OF 15 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	249
CONTRACT NO. 85529				
FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRW-5099(65)				

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TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT

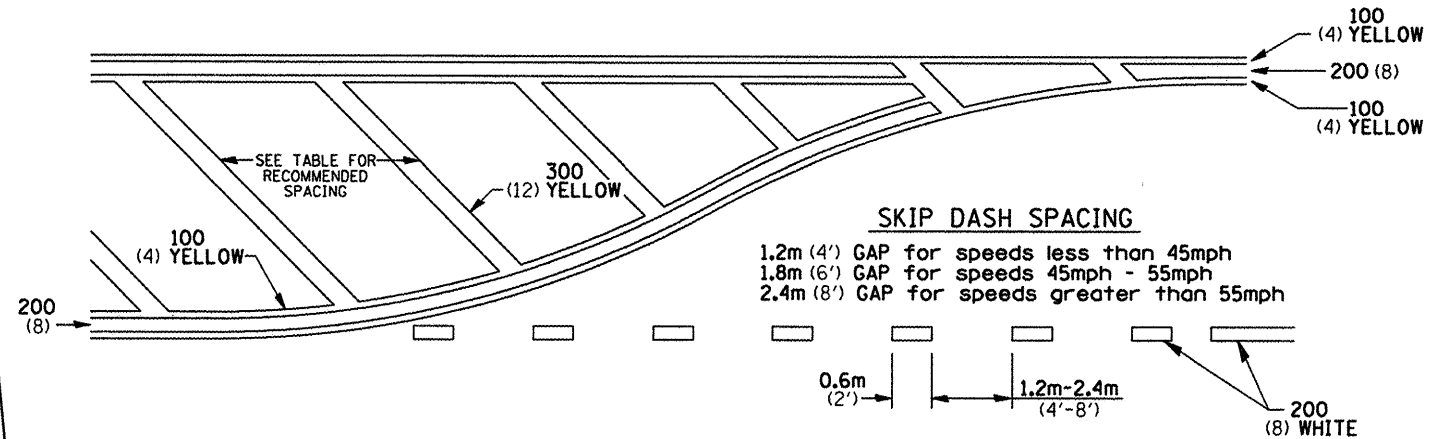


- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

12.2m
6 at (40') O.C.
APPROACH SIDE ONLY

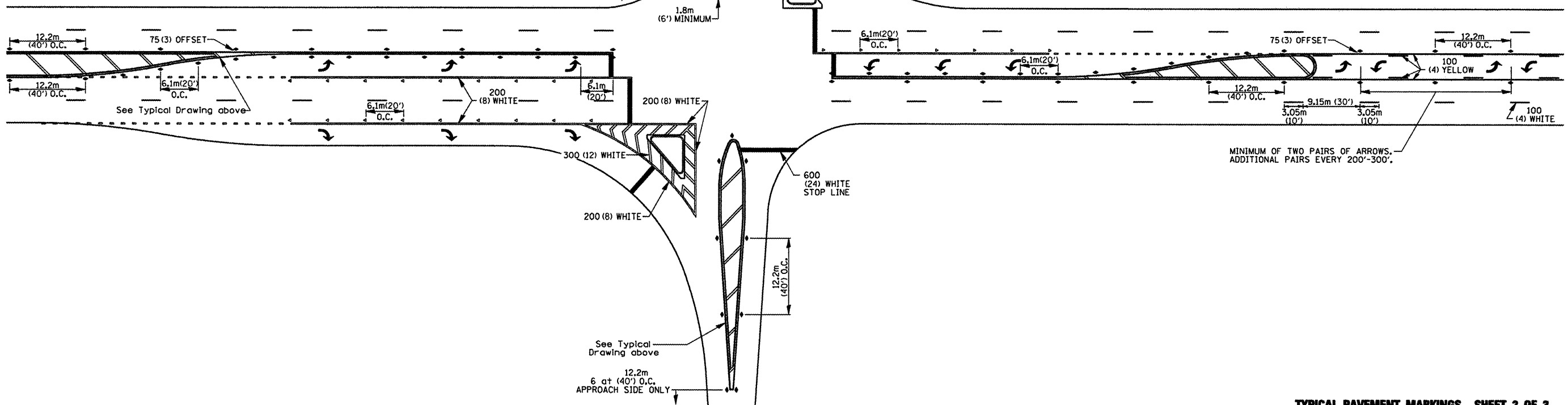
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50km/H (30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60km/H (30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70km/H (45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



TYPICAL PAVEMENT MARKINGS SHEET 2 OF 3 41.1



USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED - 10-21-08
PLOT SCALE = 40,0000' / IN.	DRAWN - ERD	REVISED -
PLOT DATE = 02/04/11	CHECKED - SJP	REVISED -
	DATE - 02/04/2011	REVISED -

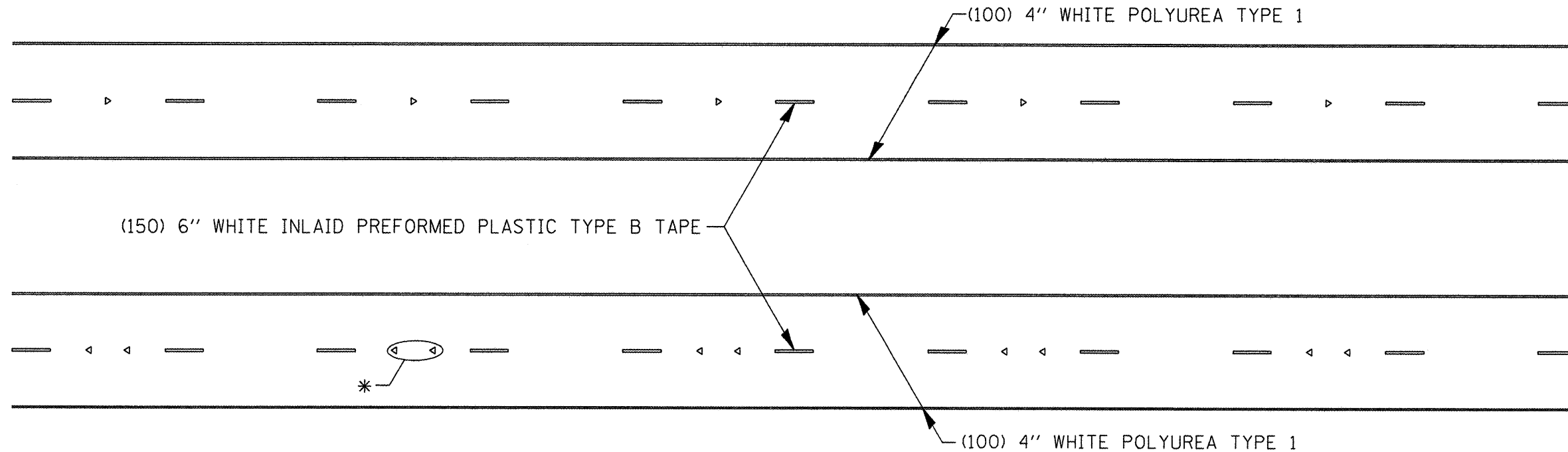
CITY OF ROCKFORD
MORGAN STREET BRIDGE

IDOT D2 / CITY STANDARD DRAWINGS - 12

SCALE: N/A SHEET NO. 12 OF 15 SHEETS STA. TO STA.

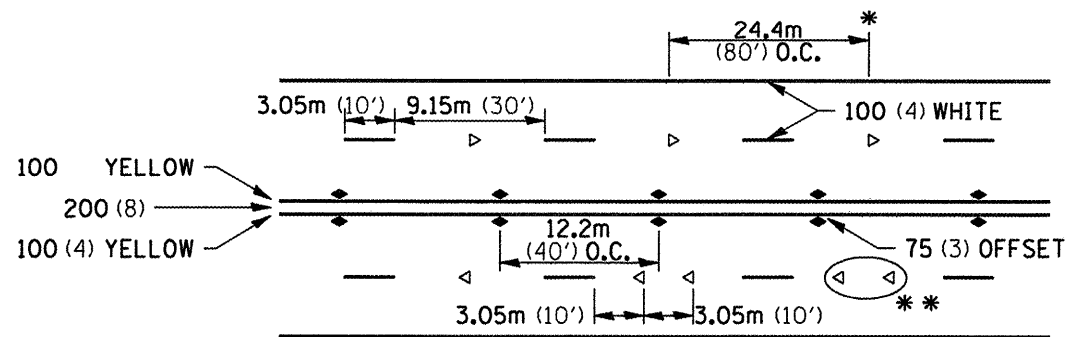
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	250
FED. ROAD DIST. NO. 2 ILLINOIS			CONTRACT NO. 85529	
FED. AID PROJECT BRM-509965				

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT \geq 25,000.

MULTI-LANE / DIVIDED

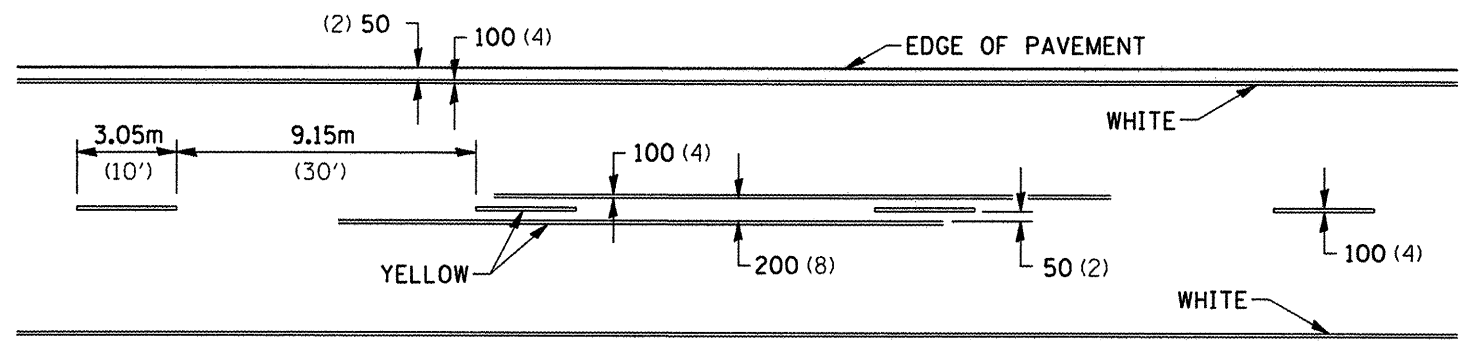


SYMBOLS

- REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15Km/H (10MPH) LOWER THAN POSTED SPEEDS.
- USE DOUBLE MARKERS WHEN ADT \geq 25,000

MULTI-LANE / UNDIVIDED

TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



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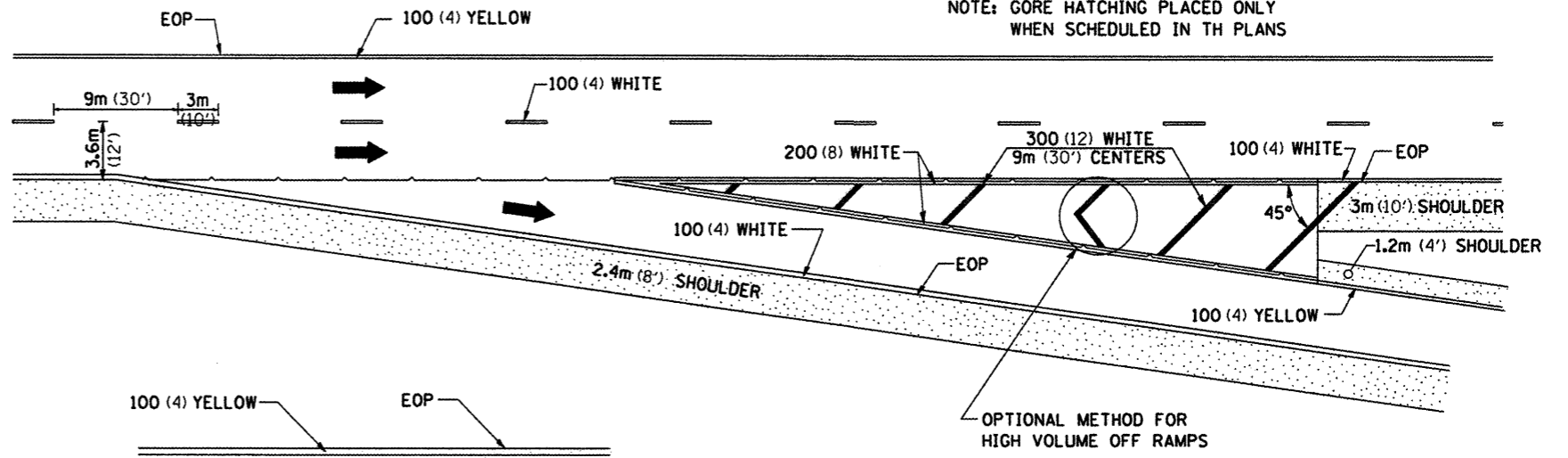
USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED - 10-21-08
PLOT SCALE = 40,0000' / IN.	DRAWN - ERD	REVISED -
PLOT DATE = 02/04/11	CHECKED - SJP	REVISED -
	DATE - 02/04/2011	REVISED -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253	251
CONTRACT NO. 85529				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-509965				

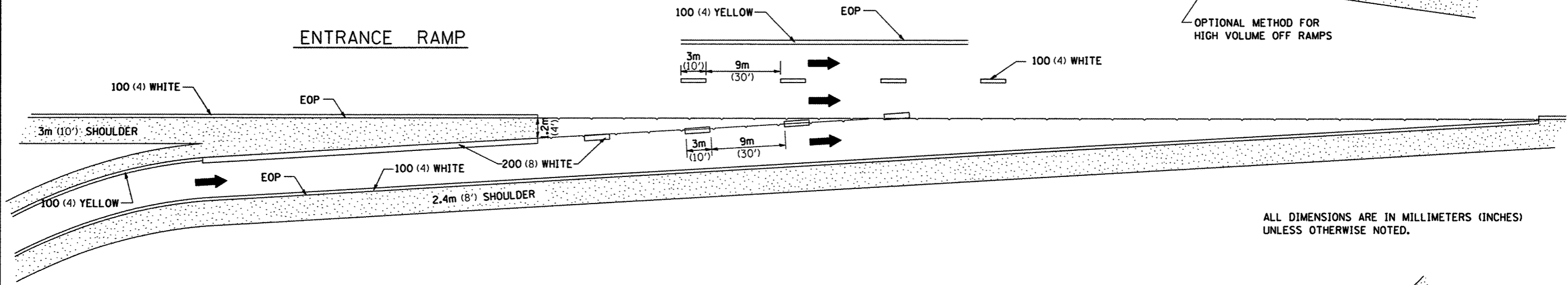
PAINING DETAILS

EXIT RAMP

NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN TH PLANS

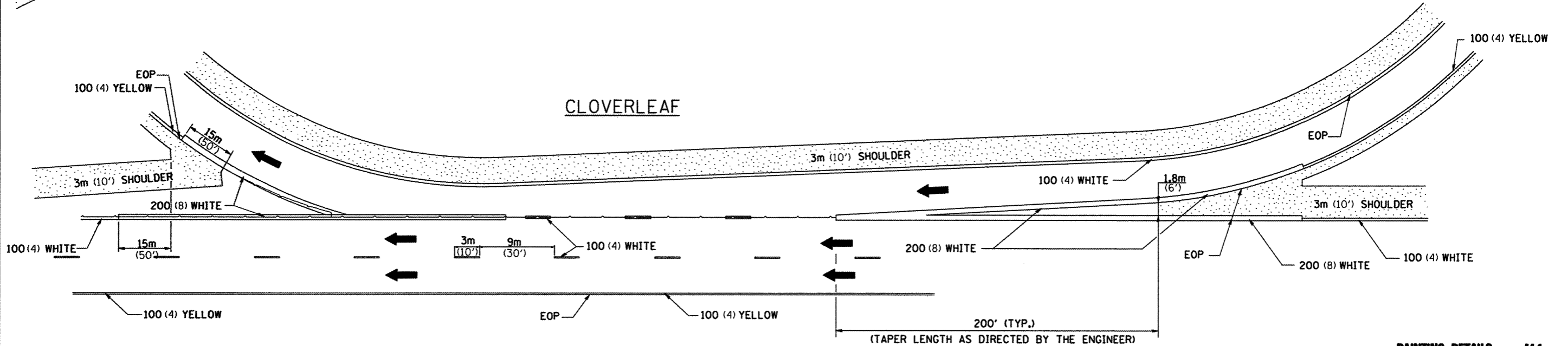


ENTRANCE RAMP



ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

CLOVERLEAF



PAINING DETAILS 44.1



USER NAME = Steve Frange	DESIGNED - SJP / MNB	REVISED - 5-27-09
DRAWN - ERD	CHECKED - SJP	REVISED -
DATE - 02/04/2011	REVISI	

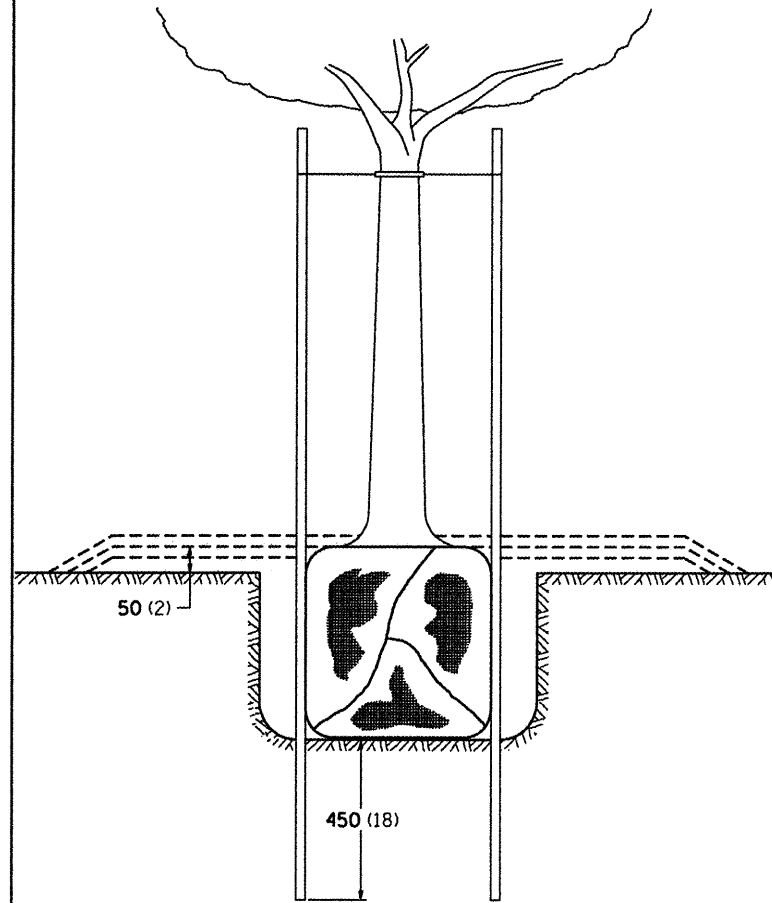
**CITY OF ROCKFORD
MORGAN STREET BRIDGE**

IDOT D2 /CITY STANDARD DRAWINGS - 14

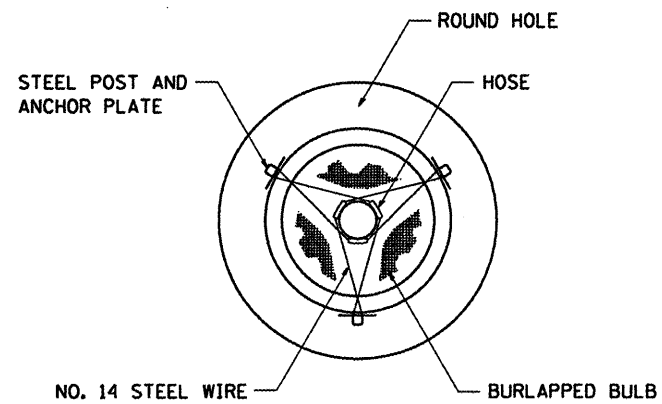
SCALE: N/A SHEET NO. 14 OF 15 SHEETS STA. TO STA.

F.A. RTE. 5077	SECTION 99-00493-00-BR	COUNTY WINNEBAGO	TOTAL SHEETS 253	SHEET NO. 252
FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT BRM-509965			CONTRACT NO. 85529	

DETAILS OF PLANTING AND BRACING TREES

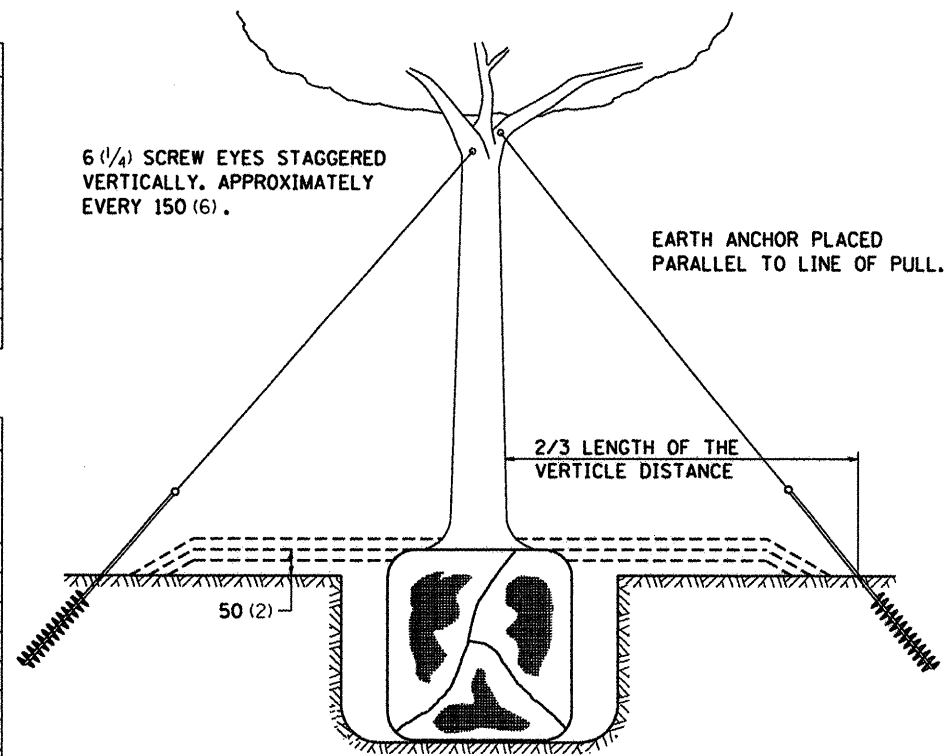
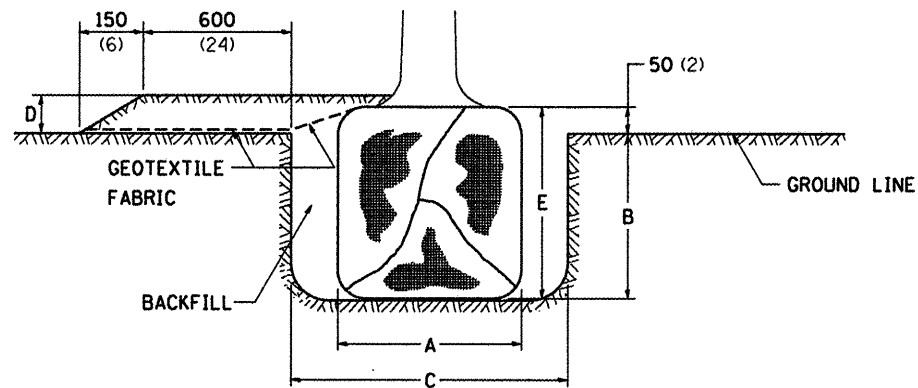


TREES SMALLER THAN 115 (4 1/2) IN DIAMETER

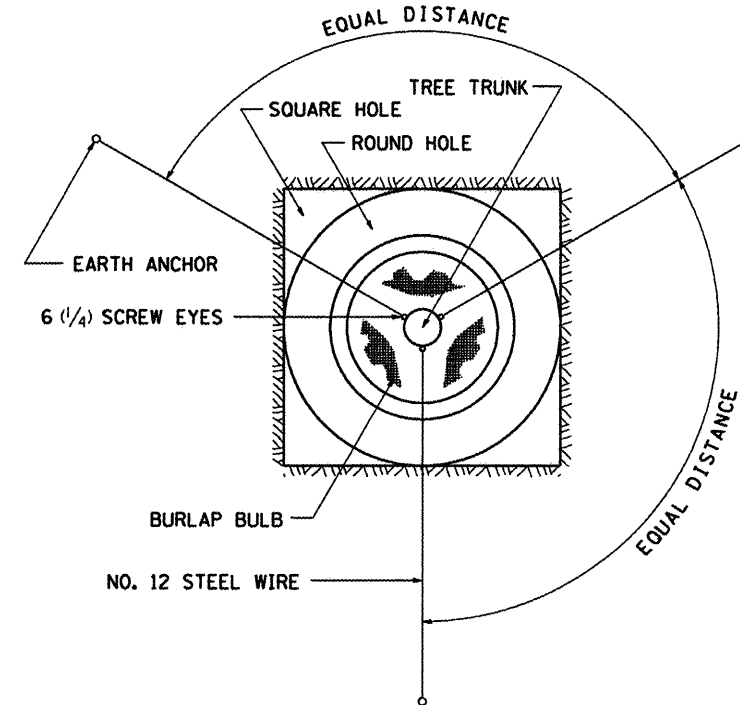


SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m ³ (CU. YDS.)
1.5-1.8m (5'-6')	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.5-1.8m (5'-6') BB	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.8-2.0m (6'-7') BB	450 (18)	300 (12)	750 (30)	100 (4)	350 (14)	0.41 (0.54)
2.0-2.4m (7'-8') BB	500 (20)	275 (11)	750 (30)	100 (4)	325 (13)	0.41 (0.54)
2.4-3.0m (8'-10') BB	600 (24)	350 (14)	900 (36)	100 (4)	400 (16)	0.47 (0.61)
3.0-3.6m (10'-12') BB	650 (26)	375 (15)	900 (36)	100 (4)	425 (17)	0.47 (0.61)

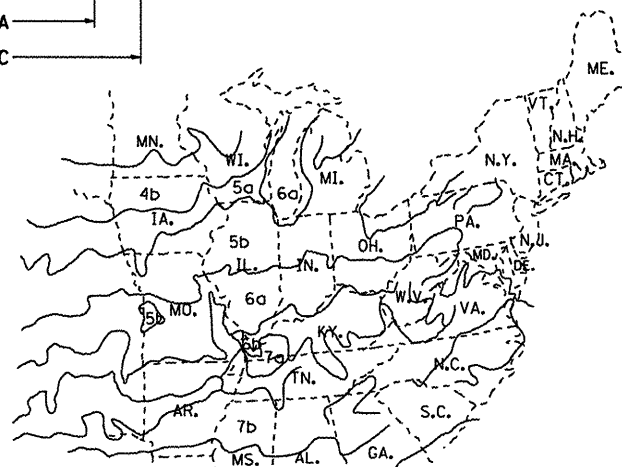
LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m ³ (CU. YDS.)
0-50 (0-2)	500 (20)	275 (11)	900 (36)	100 (4)	325 (13)	0.47 (0.61)
50-65 (2-2 1/2) BB	600 (24)	350 (14)	1200 (48)	100 (4)	400 (16)	0.60 (0.78)
65-75 (2 1/2-3) BB	700 (28)	425 (17)	1200 (48)	100 (4)	475 (19)	0.60 (0.78)
75-90 (3-3 1/2) BB	800 (32)	425 (17)	1500 (60)	100 (4)	475 (19)	0.73 (0.96)
90-100 (3 1/2-4) BB	900 (36)	500 (20)	1500 (60)	100 (4)	550 (22)	0.73 (0.96)
100-115 (4-4 1/2) BB	1000 (40)	550 (22)	1800 (72)	100 (4)	600 (24)	0.89 (1.16)
115-125 (4 1/2-5) BB	1100 (44)	600 (24)	1800 (72)	100 (4)	650 (26)	0.89 (1.16)
125-140 (5-5 1/2) BB	1200 (48)	675 (27)	2100 (84)	100 (4)	725 (29)	1.06 (1.38)



TREES OVER 115 (4 1/2) IN DIAMETER



ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



PLANT HARDINESS ZONE MAP
U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814

In Rockford 0826882.dwg \cadd\shirts\p_r_std\DRAWINGS_15.dwg



USER NAME = Steve Prange	DESIGNED - SJP / MNB	REVISED - 10-15-04
PLOT SCALE = 40,0000' / IN.	DRAWN - ERD	REVISED -
PLOT DATE = 02/04/11	CHECKED - SJP	REVISED -
	DATE - 02/04/2011	REVISED -

CITY OF ROCKFORD
MORGAN STREET BRIDGE

IDOT D2 / CITY STANDARD DRAWINGS - 15

SCALE: N/A SHEET NO. 15 OF 15 SHEETS STA. TO STA.

DETAILS OF PLANTING AND BRACING TREES 92.1		TOTAL SHEETS	
F.A. RTE.	SECTION	COUNTY	SHEET NO.
5077	99-00493-00-BR	WINNEBAGO	253
			253
CONTRACT NO. 85529			
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT BRM-509965			