

06-13-14 LETTING ITEM 187

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED BRIDGE REPLACEMENT SURFACE TRANSPORTATION BRIDGE PROGRAM

TR 151A OVER BIG GEORGE BRANCH
PRAIRIETON TOWNSHIP
SECTION 12-12113-00-BR
CHRISTIAN COUNTY
PROJECT BROS-0021(181)
JOB NUMBER C-96-215-13

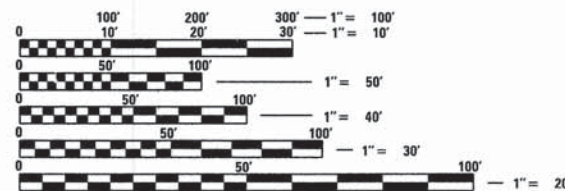
FOR INDEX OF SHEETS, SEE SHEET NO. 2 OF 33
FOR HIGHWAY STANDARDS, SEE SHEET NO. 2 OF 33

THE PROPOSED IMPROVEMENT CONSISTS OF REMOVAL OF EXISTING STRUCTURE AND REPLACEMENT WITH A SINGLE SPAN PRECAST PRESTRESSED CONCRETE DECK BEAM (33" DEPTH) BRIDGE, PILE BENT ABUTMENTS, 24'-0" CLEAR ROADWAY, 68'-9 1/2" BACK TO BACK ABUTMENTS, AND 10 DEGREE SKEW. THE IMPROVEMENTS ALSO INCLUDE A PROFILE RAISE TO BOTH TR 151A AND TR 296 TO MEET THE MINIMUM LOW BEAM CLEARANCE.

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
151A	12-12113-00-BR	CHRISTIAN	33	1
296		ILLINOIS	CONTRACT NO. 93621	



FUNCTIONAL CLASSIFICATION - LOCAL ROAD
2013 ADT = 250
DESIGN SPEED = 30 MPH



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

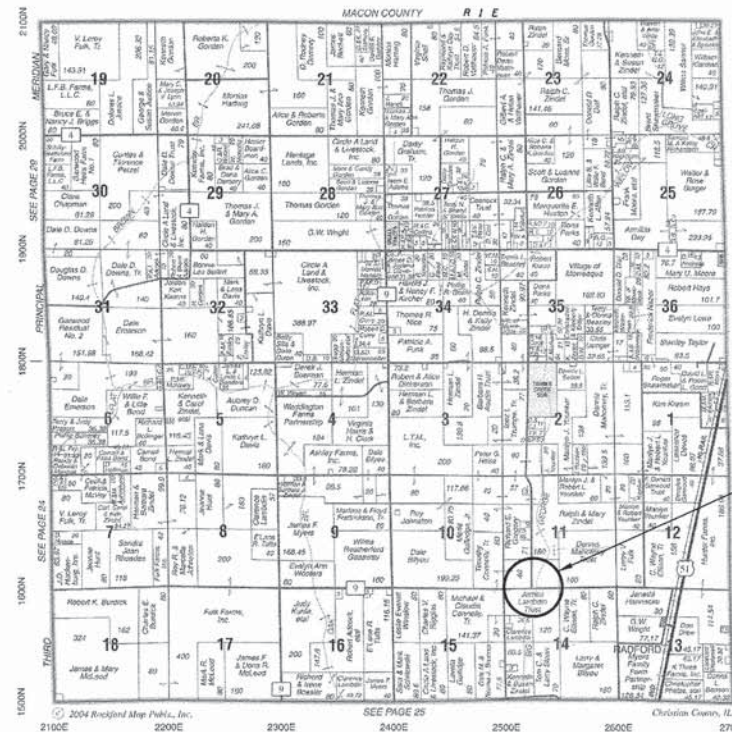
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811



JEREMY BUENING
DATE 12/19/13
EXPIRES 11/30/15

CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS

DECATUR (217) 422-8544
CHICAGO (773) 714-0050
ROCKFORD (815) 489-0050
184-001397



TR 151A NET LENGTH = 950.00 FT. = 0.180 MILE
TR 296 NET LENGTH = 341.00 FT. = 0.065 MILE
NET LENGTH OF PROJECT = 1291.00 FT. = 0.245 MILE

PROPOSED
SECTION 12-12113-00-BR
TR 151A BEGINS STA 4+50.00
TR 151A ENDS STA 14+00.00
PROPOSED SN 011-3421
EXISTING SN 011-3112
TR 296 BEGINS STA 20+09.00
TR 296 ENDS STA 23+50.00

APPROVED _____ 1-9 20 14
COUNTY ENGINEER

APPROVED _____ 1-9 20 14
TOWNSHIP ROAD COMMISSIONER

APPROVED _____
DISTRICT SIX ENGINEER OF LOCAL ROADS AND STREETS

APPROVED _____ April 4, 2014
DISTRICT SIX ENGINEER OF CONSTRUCTION

Releasing For Bid Based on Limited Review
APPROVED _____ April 7, 2014
DEPUTY DIRECTOR OF HIGHWAYS
REGION FOUR ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONTRACT 93621

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL
20200100	EARTH EXCAVATION	CU YD	889
20300100	CHANNEL EXCAVATION	CU YD	42
20400800	FURNISHED EXCAVATION	CU YD	3347
25000200	SEEDING, CLASS 2	ACRE	2
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	180
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	180
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	180
25100115	MULCH METHOD 2	ACRE	2
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	400
28000305	TEMPORARY DITCH CHECKS	FOOT	300
28000400	PERIMETER EROSION BARRIER	FOOT	525
28000500	INLET AND PIPE PROTECTION	EACH	2
28100207	STONE RIPRAP, CLASS A4	TON	695
28200200	FILTER FABRIC	SO YD	76.3
35101400	AGGREGATE BASE COURSE, TYPE B	TON	1226
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	1048
40300300	BITUMINOUS MATERIALS (COVERS AND SEAL COATS)	GAL	2649
40300500	COVER COAT AGGREGATE	TON	51
40300600	SEAL COAT AGGREGATE	TON	25
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50105220	PIPE CULVERT REMOVAL	FOOT	37
50200100	STRUCTURE EXCAVATION	CU YD	59
50300225	CONCRETE STRUCTURES	CU YD	23.6
50300280	CONCRETE ENCASEMENT	CU YD	2.8
50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SO FT	1619
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3140
50900205	STEEL RAILING, TYPE S1	FOOT	138
51201400	FURNISHING STEEL PILES HP10X42	FOOT	175
51202305	DRIVING PILES	FOOT	175
51203400	TEST PILE STEEL HP10X42	EACH	1
51204650	PILE SHOES	EACH	8
51500100	NAME PLATES	EACH	1
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	56
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	40
54213459	END SECTIONS 24"	EACH	2
54215550	METAL END SECTIONS 15"	EACH	2
63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
67100100	MOBILIZATION	L SUM	1
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4

* SPECIAL PROVISION CONSTRUCTION TYPE CODE: 0011
 Δ SPECIALTY ITEMS BRIDGE TYPE CODE: X080

PAVING SCHEDULE							
STATION	LT/RT	STATION	35101400 AGGREGATE BASE COURSE, TYPE B TON	40300100 BITUMINOUS MATERIALS (PRIME COAT) GALLON	40300300 BITUMINOUS MATERIALS (COVERS AND SEAL COATS) GALLON	40300500 COVER COAT AGGREGATE TON	40300600 SEAL COAT AGGREGATE TON
TR 151A							
4+50.00	RT	5+00.00	22	21	51	0.98	0.49
4+50.00	LT	7+58.74	141	129	324	6.18	3.09
5+00.00	RT	9+64.02	211	193	486	9.28	4.64
8+66.76	LT	9+67.19	46	42	105	2.00	1
10+32.81	RT	13+50.00	144	132	333	6.34	3.17
10+35.98	LT	13+50.00	143	131	330	6.28	3.14
13+50.00	LT/RT	14+00.00	45	41	102	1.98	0.99
4+50.00	LT WEDGE	7+58.74	5				
4+50.00	RT WEDGE	9+64.02	9				
8+66.76	LT WEDGE	9+67.19	2				
10+32.81	RT WEDGE	14+00.00	6				
10+35.98	LT WEDGE	14+00.00	6				
12+52.00	FIELD ENT.		19				
SUBTOTAL			799	689	1731	33.04	16.52
TR 296							
20+00.00	LT	20+52.93	65	57	150	2.86	1.43
20+00.00	RT	20+55.09	69	60	159	3.04	1.52
20+52.93	LT	23+00.00	113	103	258	4.94	2.47
20+55.09	RT	23+00.00	112	102	258	4.90	2.45
23+00.00	LT/RT	23+50.00	39	37	93	1.74	0.87
20+00.00	LT/RT WEDGE	23+50.00	12				
22+75.00	FIELD ENT.		17				
SUBTOTAL			427	359	918	17.48	8.74
TOTAL			1226	1048	2649	51	25

TEMPORARY EROSION CONTROL SCHEDULE					
STATION	LT/RT	STATION	28000305 TEMPORARY DITCH CHECK FOOT	28000400 PERIMETER EROSION BARRIER FOOT	28000500 INLET AND PIPE PROTECTION EACH
TR 151A					
4+50.00	LT/RT		16		
5+00.00	LT/RT		16		
6+00.00	LT/RT		16		
7+00.00	LT/RT		16		
8+00.00	RT		8		
8+80.00	LT	11+00.00		270	
9+00.00	RT	11+00.00		255	
9+50.00	LT/RT		19		
11+00.00	LT/RT		16		
11+33.00	LT/RT		16		
11+67.00	LT/RT		16		
12+00.00	LT/RT		16		
12+25.00	RT		8		
12+33.00	LT		8		
12+67.00	LT		8		
12+72.00	RT				1
13+00.00	LT/RT		16		
13+33.00	LT/RT		16		
13+67.00	LT/RT		16		
14+00.00	LT/RT		16		
SUBTOTAL			243	525	1
TR 296					
20+55.10	LT				1
21+00.00	LT/RT		19		
22+00.00	LT/RT		19		
23+00.00	LT/RT		19		
SUBTOTAL			57		1
TOTAL			300	525	2

DRAINAGE SCHEDULE							
STATION	LT/RT	STATION	542D0220 PIPE CULVERTS CL D T1 15"	542A0229 PIPE CULVERTS CL A T1 24"	54215550 METAL END SECTIONS 15"	54213459 END SECTIONS 24"	50105220 PIPE CULVERT REMOVAL FOOT
TR 151A							
12+32.00	RT	12+72.00	40		2		
12+43.00	RT	12+63.00					20
SUBTOTAL			40		2		20
TR 296							
20+42.00	RT	20+59.00					17
20+55.10	AR	20+55.10		56		2	
SUBTOTAL				56		2	17
TOTAL			40	56	2	2	37
USE			40	56	2	2	37

EARTHWORK SCHEDULE				
LOCATION	1 20200100 EARTH EXCAVATION (CU YD)	2 *EXCAVATION TO BE USED IN EMBANKMENT (ADJUSTED FOR SHRINKAGE) (COL 1 X 0.75) (CU YD)	3 *EMBANKMENT (FILL) (CU YD)	4 20400800 FURNISHED EXCAVATION (COL 3 - COL 2) (CU YD)
4+50.00 TO 14+00.00	647	485	2855	2370
20+09.01 TO 23+50.00	242	182	1159	977
TOTAL	889	667	4014	3347

EARTH EXCAVATION SHRINKAGE FACTOR ASSUMED TO BE 25%
 ITEMS MARKED WITH AN ASTERISK (*) ARE FOR INFORMATIONAL PURPOSES ONLY

SEEDING SCHEDULE				
STATION	LT/RT	STATION	25000200 SEEDING, CLASS 2 ACRE	28000250 TEMPORARY EROSION CONTROL SEEDING POUND
4+50.00	LT	8+12.47	0.40	79
8+25.82	LT	10+02.73	0.38	75
4+50.00	RT	9+79.08	0.41	83
10+20.99	LT	14+00.00	0.32	63
9+97.32	RT	14+00.00	0.31	63
TOTAL			1.81	363
MULTIPLIER FOR SLOPE			1.1	1.1
TOTAL W/MULTIPLIER			2.00	400

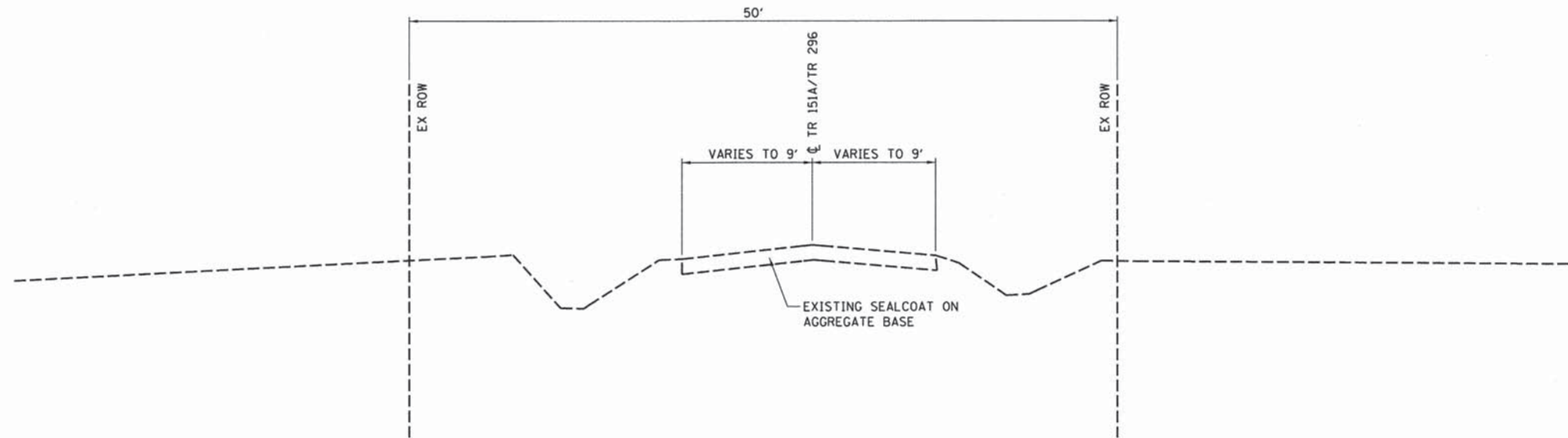
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DRAWN - DLB	CHECKED - JMB	REVISED -
PLOT SCALE = 5,0000' / in.	DATE -	REVISED -
PLOT DATE = 12/16/2013		

CHASTAIN & ASSOCIATES LLC
 CONSULTING ENGINEERS
 DECATUR (217) 422-8544
 CHICAGO (773) 714-0050
 ROCKFORD (815) 489-0050
 184-001397

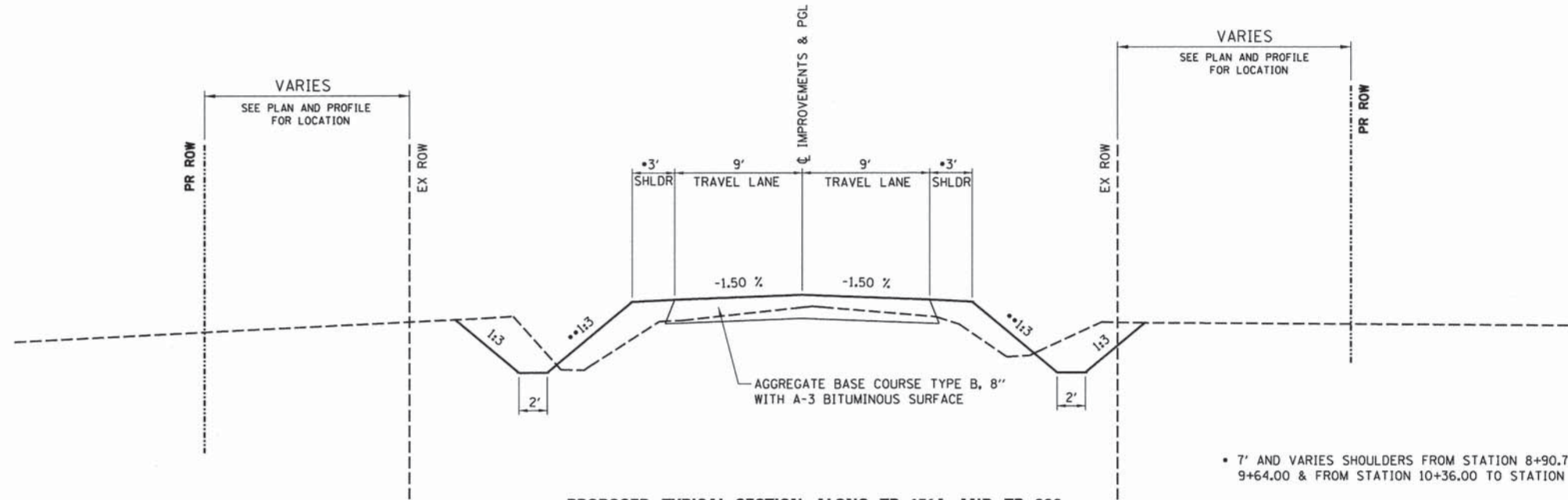
SUMMARY OF QUANTITIES AND SCHEDULE OF QUANTITIES			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
151A 296	12-12113-00-BR	CHRISTIAN	33	3
CONTRACT NO. 93621				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION ALONG TR 151A AND TR 296

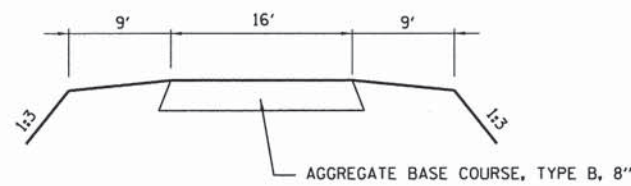
STATION 4+50.00 TO STATION 14+00.00 (TR 151A)
STATION 20+09.00 TO STATION 23+50.00 (TR 296)



PROPOSED TYPICAL SECTION ALONG TR 151A AND TR 296

STATION 4+50.00 TO STATION 14+00.00 (TR 151A)
STATION 20+09.00 TO STATION 23+50.00 (TR 296)

- 7' AND VARIES SHOULDERS FROM STATION 8+90.75 TO STATION 9+64.00 & FROM STATION 10+36.00 TO STATION 11+09.25
- TRANSITION TO/FROM 1:2 (V:H) SLOPES FROM STATION 9+50.00 TO STATION 9+64.38 & FROM STATION 10+35.62 TO STATION 10+50.00



ENTRANCE DETAIL

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PLOT SCALE = 5.0000' / in.	DRAWN - DLB	REVISED -
PLOT DATE = 12/16/2013	CHECKED - JMB	REVISED -
	DATE -	REVISED -

CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS

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CHICAGO (773) 714-0050
ROCKFORD (815) 489-0050
184-001397

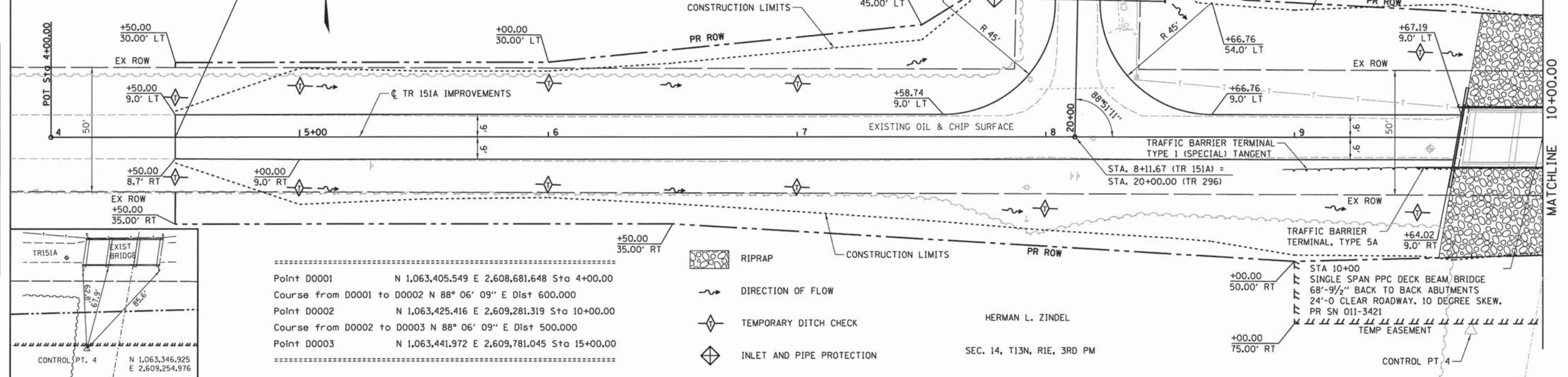
ROADWAY TYPICAL SECTIONS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
151A	12-12113-00-BR	CHRISTIAN	33	4
296				
CONTRACT NO. 93621				
ILLINOIS FED. AID PROJECT				

SEC. 11, T13N, R1E, 3RD PM

TIMOTHY P. CONNELLY

BEGIN IMPROVEMENTS
STATION 4+50.00

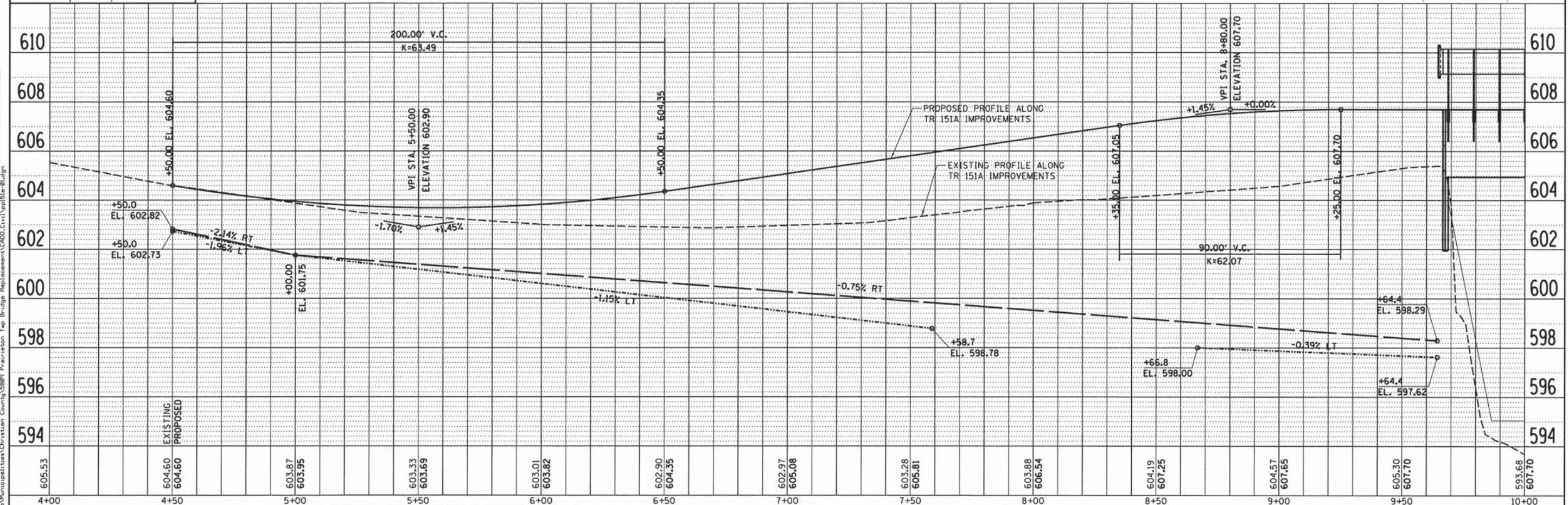


Point D0001	N 1,063,405.549 E 2,608,681.648 Sta 4+00.00
Course from D0001 to D0002	N 88° 06' 09" E Dist 600.000
Point D0002	N 1,063,425.416 E 2,609,281.319 Sta 10+00.00
Course from D0002 to D0003	N 88° 06' 09" E Dist 500.000
Point D0003	N 1,063,441.972 E 2,609,781.045 Sta 15+00.00

- RIPRAP
- DIRECTION OF FLOW
- TEMPORARY DITCH CHECK
- INLET AND PIPE PROTECTION

HERMAN L. ZINDEL

SEC. 14, T13N, R1E, 3RD PM



DATE	BY
DATE	BY
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USER NAME = rking	DESIGNED - ACB	REVISED -
	DRAWN - DLB	REVISED -
	CHECKED - JMB	REVISED -
	DATE -	REVISED -

CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS

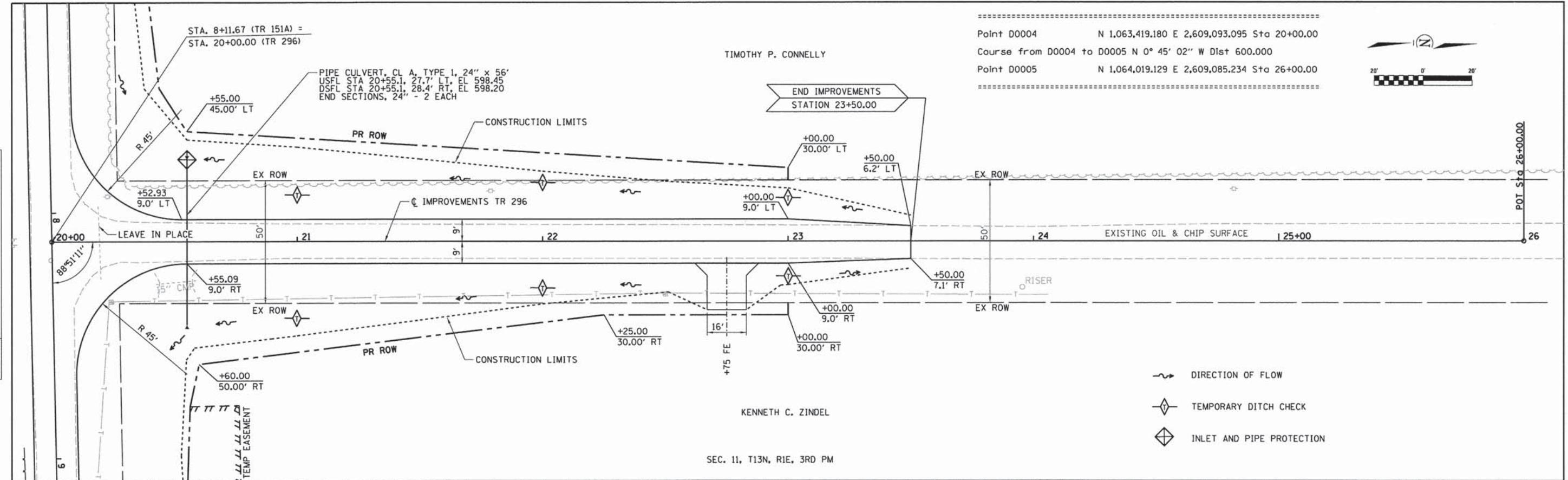
DECATUR CHICAGO ROCKFORD
(217) 422-8544
(773) 714-0050
(815) 489-0050
184-001397

TR 151A PLAN AND PROFILE			
SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
151A	12-12113-00-BR	CHRISTIAN	33	5
CONTRACT NO.			ILLINOIS FED. AID PROJECT	
			93621	

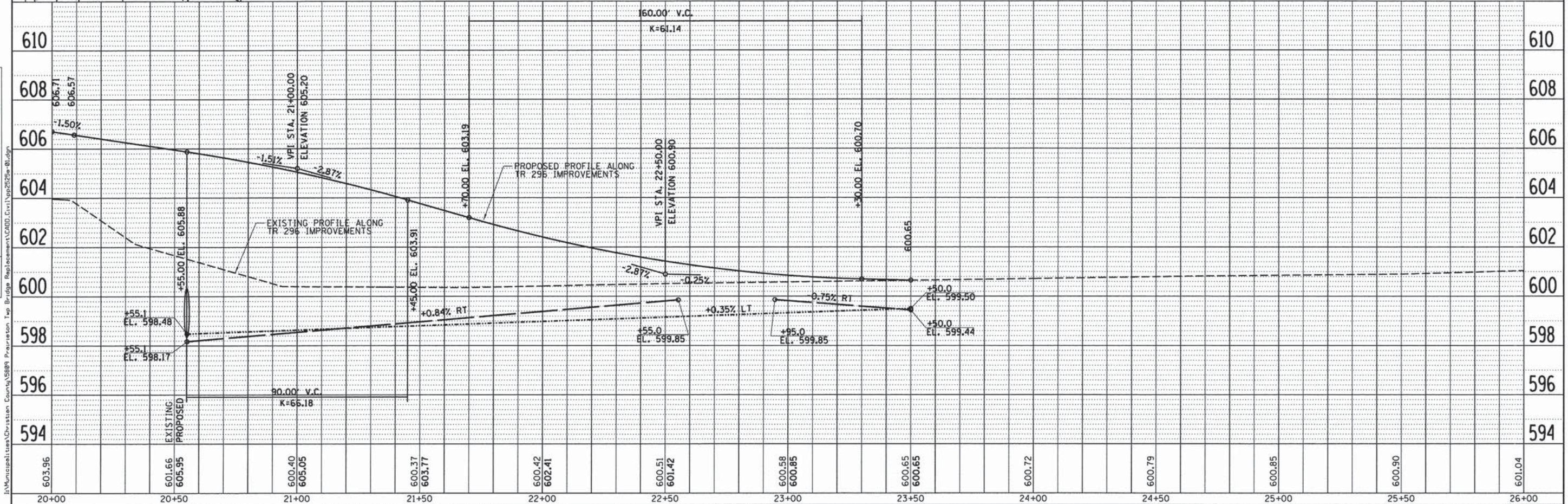
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BY	
REVIEWED	
APPROVED	
PLANNED	
NOTED	
NO.	
NO.	
NO.	
NO.	

DATE	
BY	
REVIEWED	
APPROVED	
PLANNED	
NOTED	
NO.	
NO.	
NO.	
NO.	



Point D0004 N 1,063,419.180 E 2,609,093.095 Sta 20+00.00
 Course from D0004 to D0005 N 0° 45' 02" W Dist 600.000
 Point D0005 N 1,064,019.129 E 2,609,085.234 Sta 26+00.00

- DIRECTION OF FLOW
- TEMPORARY DITCH CHECK
- INLET AND PIPE PROTECTION



603.96	601.66	601.95	600.40	600.05	600.37	603.77	600.42	602.41	600.51	601.42	600.58	600.85	600.65	600.65	600.72	600.79	600.85	600.90	601.04	
20+00	20+50	21+00	21+50	22+00	22+50	23+00	23+50	24+00	24+50	25+00	25+50	26+00								

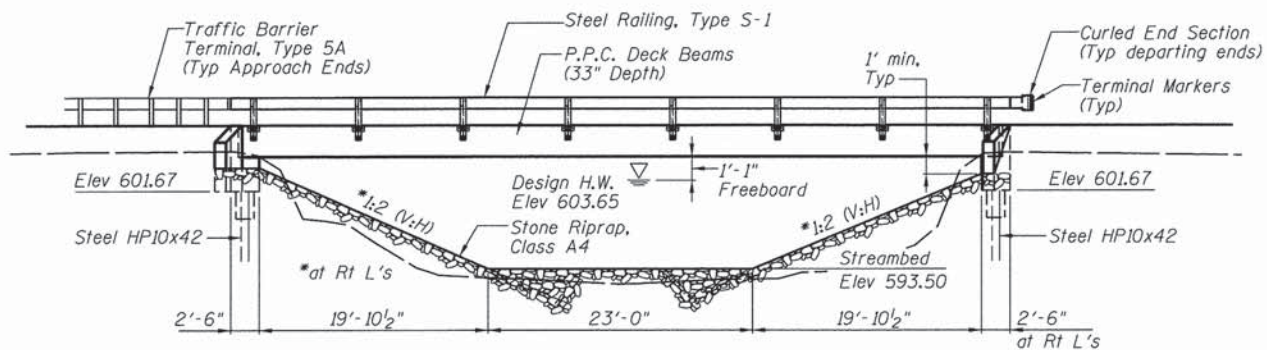
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DATE -		REVISED -

CHASTAIN & ASSOCIATES LLC
 CONSULTING ENGINEERS
 DECATUR (217) 422-8544
 CHICAGO (773) 714-0050
 ROCKFORD (815) 489-0050
 184-001397

TR 296 PLAN AND PROFILE				T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.	296	12-12113-00-BR	CHRISTIAN	33	7
				CONTRACT NO. 9362				
				[ILLINOIS] FED. AID PROJECT				

Benchmark 5809-2
RR spike in south side of first
powerpole east of bridge
Elev. 603.15

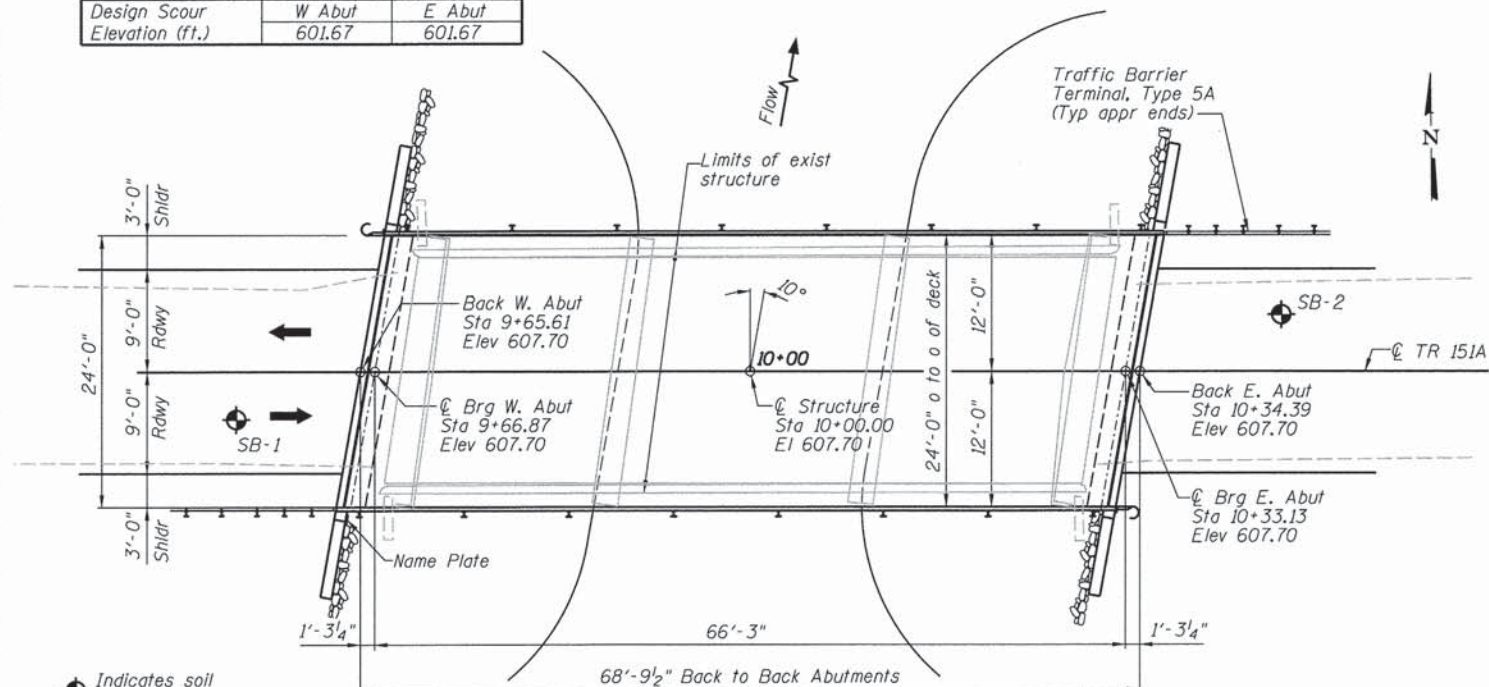
Existing Structure: (SN 011-3112)
The existing bridge is a 3-span continuous
steel girder bridge 59.3' long on stub abutments.
The current bridge width is 21.2 ft.



ELEVATION

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W Abut	E Abut
	601.67	601.67



PLAN

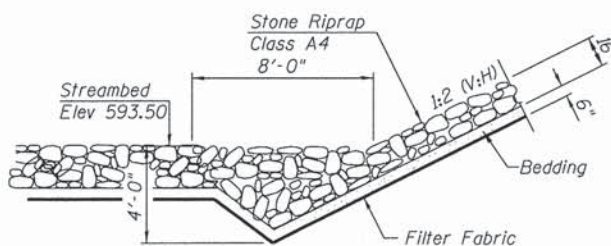
WATERWAY INFORMATION TABLE

Drainage Area = 21.8 sq mi Low Grade Elev. 603.68 @ Sta. 5+60

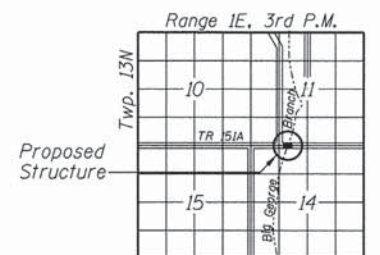
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
10	1740	364	424	603.36	0.40	0.15	603.76	603.51	
Design	15	1995	364	442	603.65	0.56	0.21	604.21	603.86
Base	100	3170	364	510	604.79	0.73	0.49	605.52	605.28
Overtopping Exist	5	1320	343	--	602.81	0.30	--	603.11	--
Overtopping Prop	22	2234	--	458	603.90	--	0.27	--	604.17
Max. Calc.	500	4200	364	510	605.64	0.44	0.89	606.08	606.53

10 year velocity through existing structure = 4.97 ft/s
10 year velocity through proposed structure = 4.32 ft/s

Construction Permits: The requirements of the IDNR -Office of Water Resources have been fulfilled in accordance with Statewide Permit No. 2.



STONE RIPRAP ANCHOR DETAIL



LOCATION SKETCH

BUILT 20 BY
PRAIRIETON TOWNSHIP
CHRISTIAN COUNTY
SECTION 12-12113-00-BR
STA 10+00.00
STR. NO. 011-3421 LOADING HL-93

NAME PLATE
See Std. 515001

LOADING HL-93
Allow 50 lb/sq. ft.
for future wearing surface.

DESIGN SPECIFICATIONS
2012 AASHTO LRFD 6th Edition

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (reinforcement)
PRECAST PRESTRESSED UNITS
f'c = 6,000 psi
f'ci = 5,000 psi
f's = 270,000 psi (1/2" φ low-relaxation strands)
f'si = 202,000 psi (1/2" φ low-relaxation strands)

SEISMIC DATA

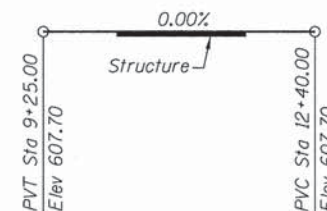
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec (S₀₁) = 0.122g
Design Spectral Acceleration at 0.2 sec (S₀₅) = 0.252g
Soil Site Class = C

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Steel Railing, Type S-1
- 3 Superstructure Plan And Cross Section
- 4 33"x36" PPC Deck Beam
- 5 33"x36" PPC Deck Beam Details
- 6 West Abutment Details
- 7 East Abutment Details
- 8 Steel HP Pile Details
- 9 Soil Boring Logs

GENERAL NOTES:

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
All Construction joints shall be bonded.
See Roadway Plans for additional riprap limits and quantities.
See Roadway Plans for channel excavation limits and quantities.
Reinforcement bars designated (E) shall be epoxy coated.
Contractor shall drive one test pile at the west abutment in a production location, as directed by the engineer, prior to ordering the remainder of the piles.



CONSTRUCTION PROFILE

TOTAL BILL OF MATERIAL

Item	Unit	Quantity
Removal of Existing Structures	Each	1
Structure Excavation	Cu Yd	59
Concrete Structures	Cu Yd	23.6
Concrete Encasement	Cu Yd	2.8
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq Ft	1619
Reinforcement Bars, Epoxy Coated	Pound	3140
Steel Railing, Type S-1	Foot	138
Furnishing Steel Piles HP10x42	Foot	175
Driving Piles	Foot	175
Test Pile Steel HP10x42	Each	1
Pile Shoes	Each	8
Name Plates	Each	1
Terminal Marker - Direct Applied	Each	4



Jeremy Buening, P.E., S.E.
License Expires 11/30/14

12/19/13
Date

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges.

FILE NAME = I:\Municipalities\Christian County\5888\Prairieton Twp Bridge Replacement\CADD\Structural\gme.dgn

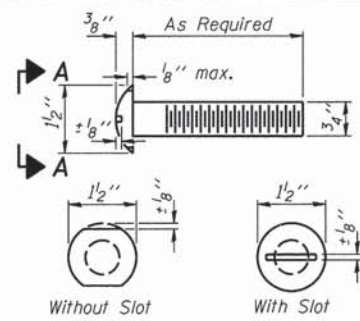
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PLOT SCALE = 8/8" 1" = 16'	CHECKED ACB	REVISED -
PLOT DATE = 12/16/2013	DATE 1/4/13	REVISED -

CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS

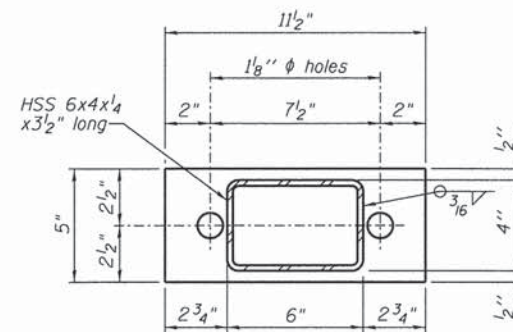
DECATUR (217) 422-8544
CHICAGO (773) 714-0050
ROCKFORD (815) 489-0050
184-001397

GENERAL PLAN AND ELEVATION
TR 151A (PRAIRIETON BRIDGE #21) OVER BIG GEORGE BRANCH
SCALE: SHEET NO. 1 OF 9 SHEETS STA. TO STA.

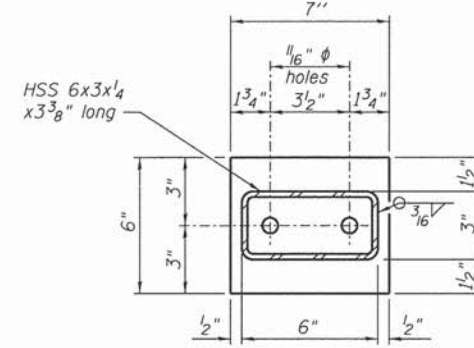
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 151A	12-12113-00-BR	CHRISTIAN	33	8
			CONTRACT NO. 9362	
ILLINOIS FED. AID PROJECT				



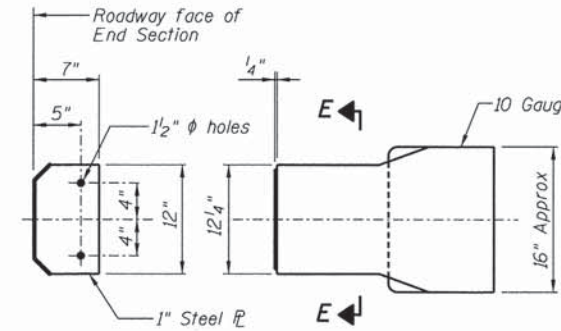
**VIEW A-A
ROUND HEAD BOLT**



**SECTION B-B
R 1/2" x 11 1/2" x 5"**



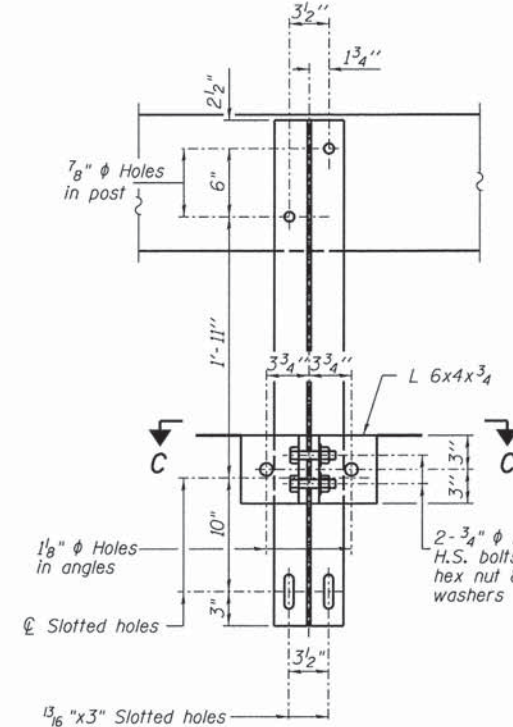
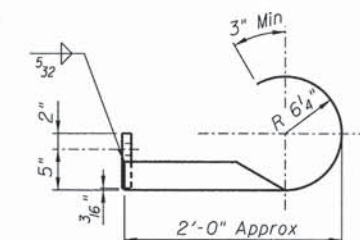
**SECTION C-C
R 1/2" x 7" x 6"**



SECTION E-E

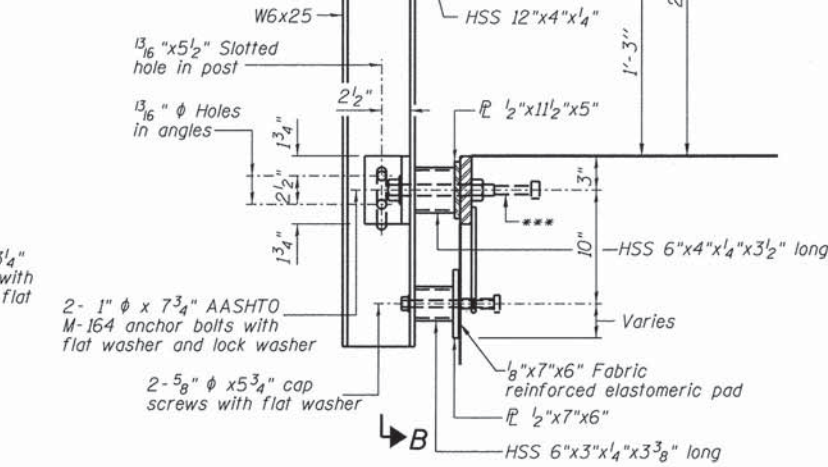
DETAILS OF CURLED END SECTION (2 REQUIRED)

(Cost included with Steel Railing, Type S-1)



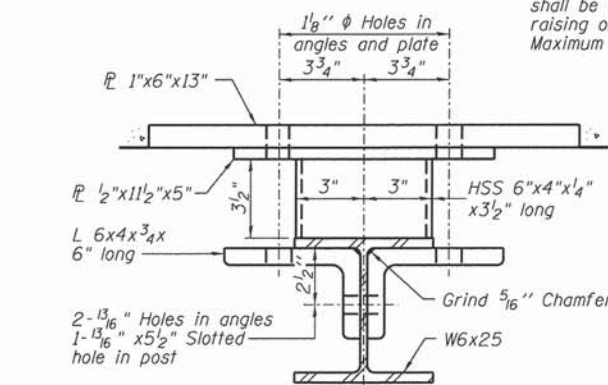
SECTION B-B

2-3/4" ϕ x 6" Round Head Bolts (With slot or approved recess in head) with locknut & flat washer. 7/8" ϕ holes in hollow structural section may be drilled in the field.

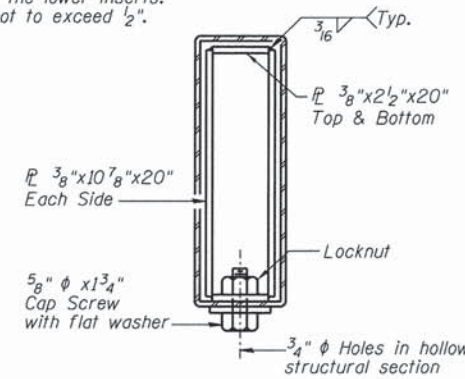


SECTION AT RAILING POST

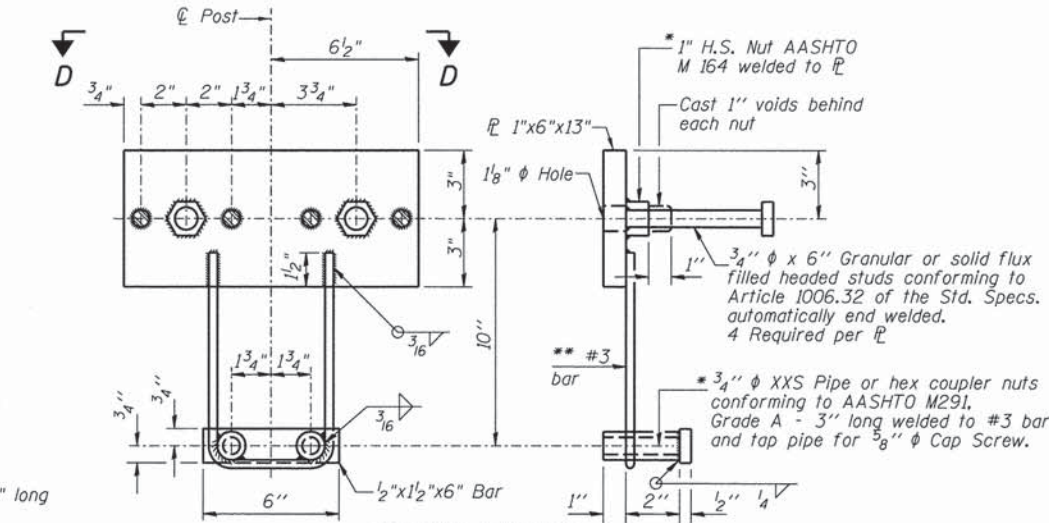
** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".



SECTION C-C

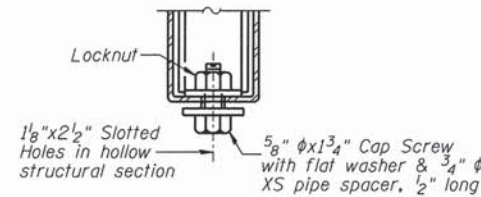


SECTIONS AT RAIL SPLICE

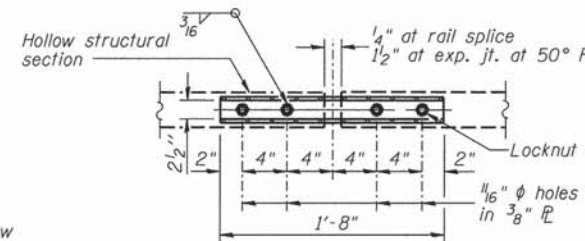


ANCHOR DEVICE

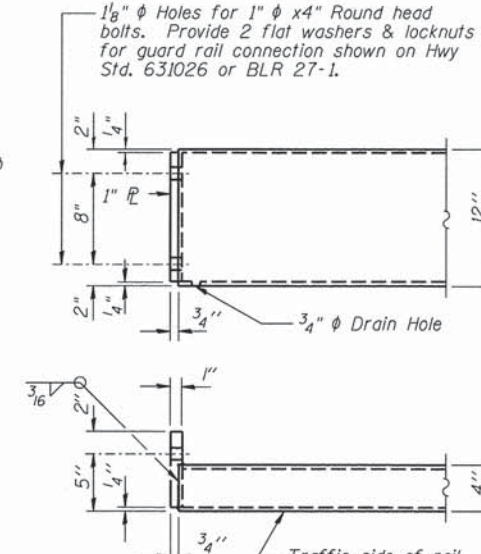
* Threaded areas shall be plugged or blocked off during casting of beam.



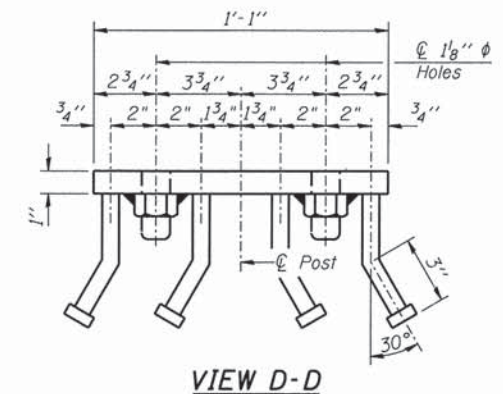
**RAIL SPLICE CONNECTION
AT EXPANSION JT.**



**PLAN-BOTT. SPLICE R
TYPICAL**



END OF RAIL DETAILS



VIEW D-D

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	138

R-23A

7-1-10 (10'-9" Maximum Post Spacing)

USER NAME = rking	DESIGNED JMB	REVISED -
PLOT TIME = 7:38:19 AM	DRAWN RLK	REVISED -
PLOT SCALE = 1:8000 / in.	CHECKED ACB	REVISED -
PLOT DATE = 12/16/2013	DATE 1/4/13	REVISED -

CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS

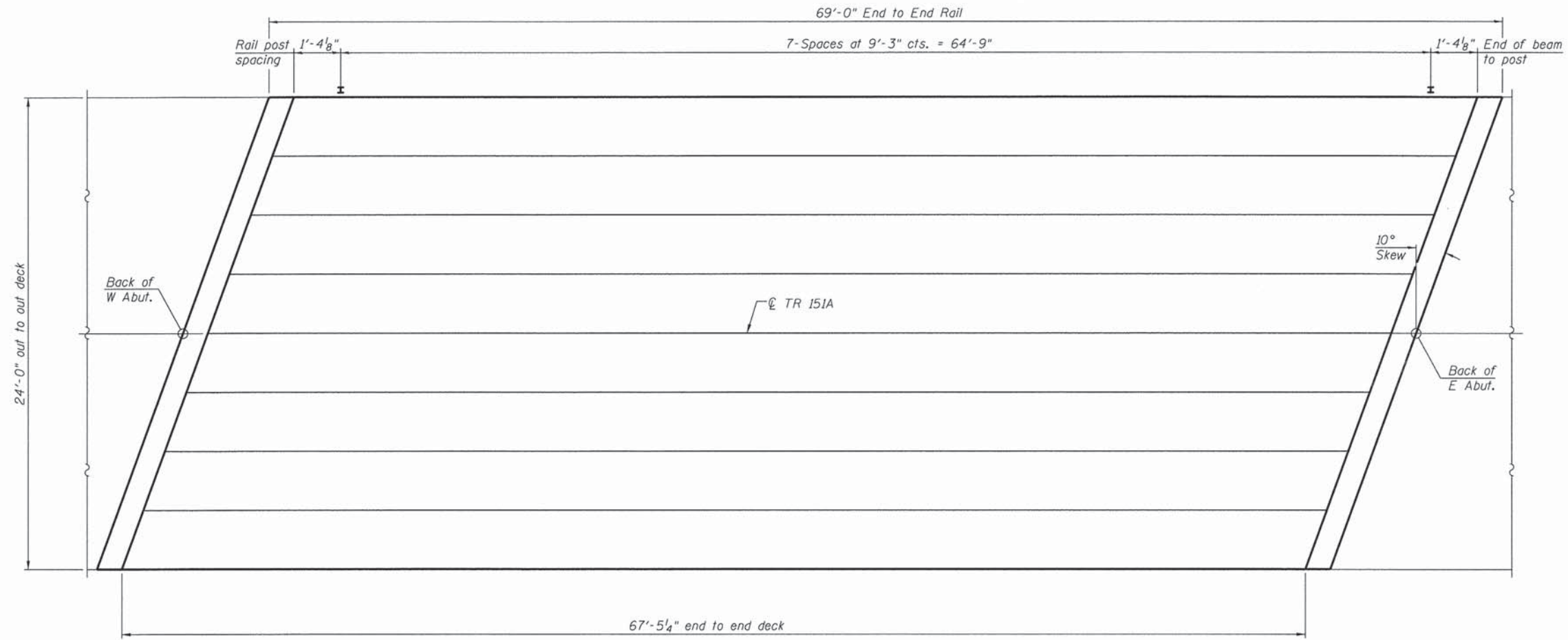
DECATUR (217) 422-8544
CHICAGO (773) 714-0050
ROCKFORD (815) 489-0050
184-001397

STEEL RAILING, TYPE S-1
TR 151A (PRAIRIETON BRIDGE #21) OVER BIG GEORGE BRANCH

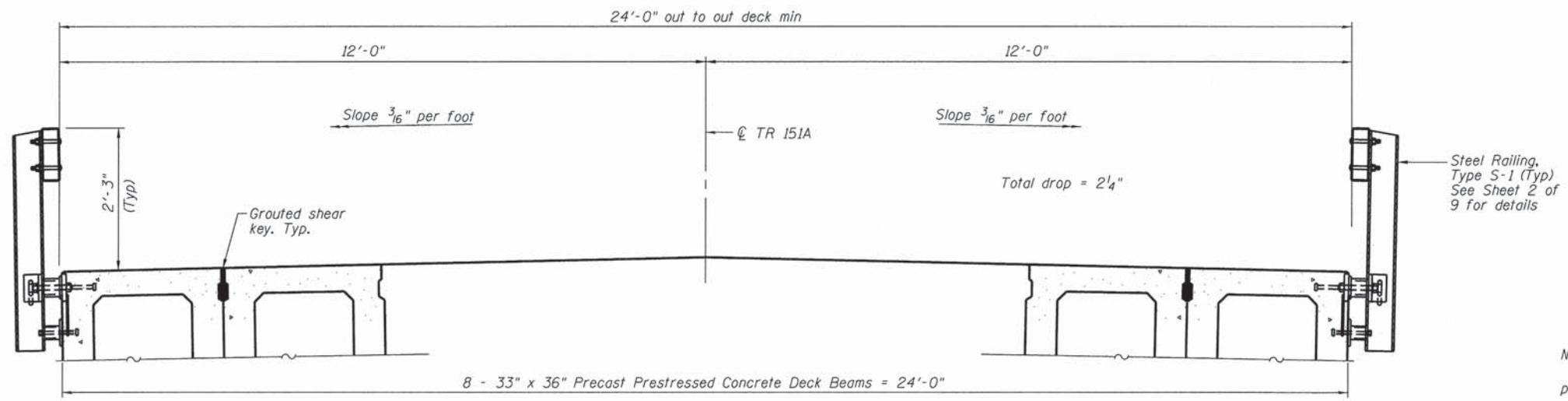
SCALE: SHEET NO. 2 OF 9 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 151A	12-12113-00-BR	CHRISTIAN	33	9

CONTRACT NO. 9 3 6 2 1
ILLINOIS FED. AID PROJECT



PLAN



CROSS SECTION
 (Looking East)

Notes:
 See sheet 5 of 9 for fabric bearing pad details.
 Dowel rods drilled in cap are included in the cost of Precast Prestressed Concrete Deck Beams (33" Depth)

FILE NAME : I:\Municipalities\Christian County\8899 Prairieon Top Bridge Replacement\CADD\Structural\superdetail.dgn

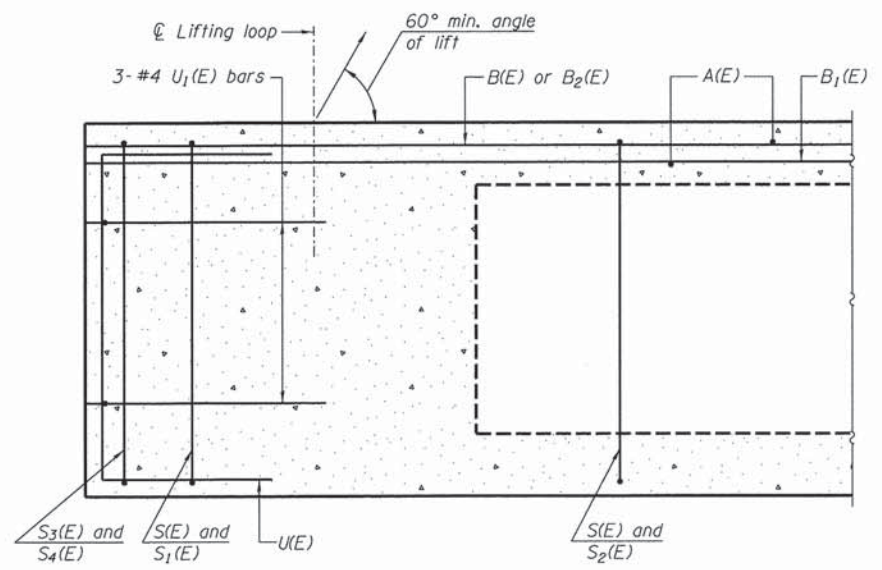
PDS-S-R34-L 7-1-10

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PLOT DATE = 12/16/2013	DATE 1/4/13	REVISED -

CHASTAIN & ASSOCIATES LLC
 CONSULTING ENGINEERS
 DECATUR (217) 422-8544
 CHICAGO (773) 714-0050
 ROCKFORD (815) 489-0050
 184-001397

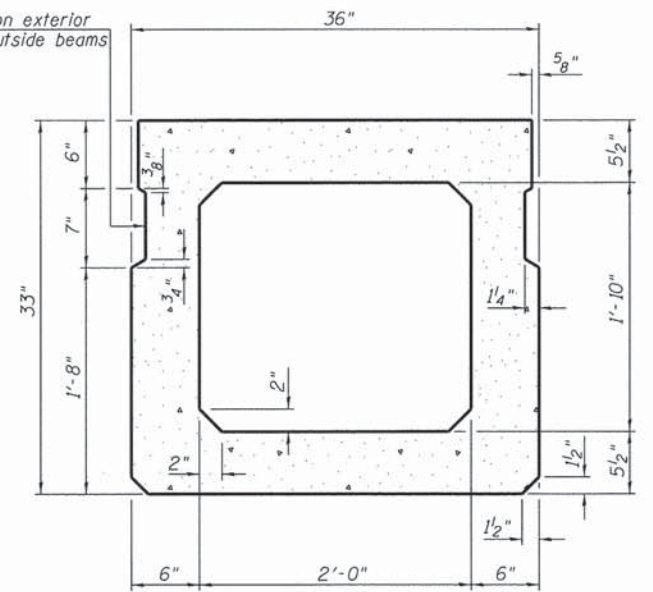
SUPERSTRUCTURE PLAN AND CROSS SECTION
TR 151A (PRAIRIETON BRIDGE #21) OVER BIG GEORGE BRANCH
 SCALE: SHEET NO. 3 OF 9 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 151A	12-12113-00-BR	CHRISTIAN	33	10
CONTRACT NO. 93621			ILLINOIS FED. AID PROJECT	

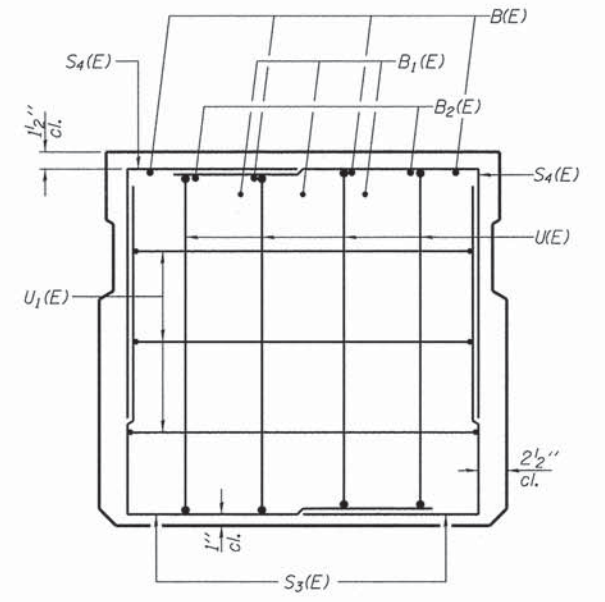


SECTION A-A

*Omit key on exterior face of outside beams

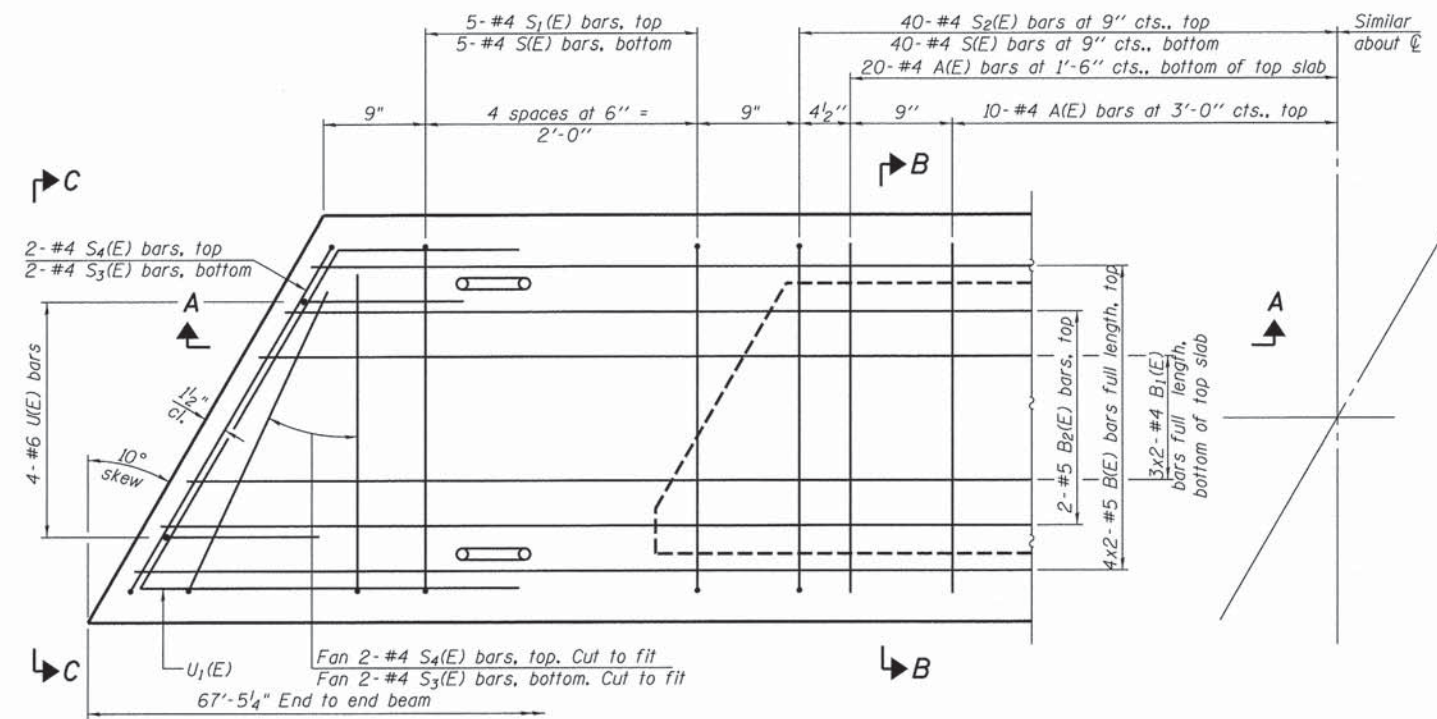


SECTION B-B
(Showing dimensions)

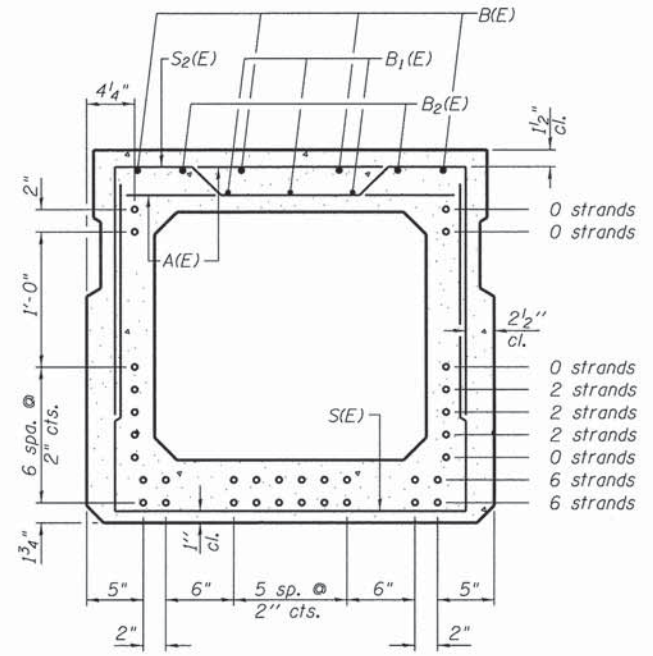


VIEW C-C

*Rail post anchor devices to be cast into exterior face of outside beams per sheet 3 of 9.



PLAN VIEW



SECTION B-B

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	60	#4	2'-7"	—
B(E)	8	#5	34'-11"	—
B1(E)	6	#4	34'-7"	—
B2(E)	4	#5	10'-0"	—
S(E)	90	#4	7'-5"	—
S1(E)	10	#4	6'-3"	┌
S2(E)	80	#4	6'-6"	┌
S3(E)	8	#4	4'-10"	┌
S4(E)	8	#4	4'-3"	┌
U(E)	8	#6	5'-0"	┌
U1(E)	6	#4	5'-7"	┌

Note: See sheet 5 of 9 for additional details and Bill of Material.

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

MINIMUM BAR LAP

#4 bar = 2'-0"
#5 bar = 2'-6"

FILE NAME = J:\Municipalities\Christian County\5889 Prairieton Tap Bridge Replacement\CADD\Structural\beam.dgn

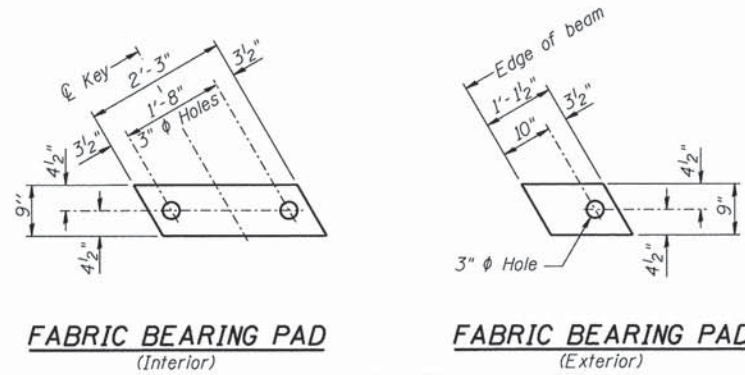
PD-3336-L 7-1-10

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CHASTAIN & ASSOCIATES LLC
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DECATUR (217) 422-8544
CHICAGO (773) 714-0050
ROCKFORD (815) 489-0050
184-001397

33" x 36" PPC DECK BEAM
TR 151A (PRAIRIETON BRIDGE #21) OVER BIG GEORGE BRANCH
SCALE: SHEET NO. 4 OF 9 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 151A	12-12113-00-BR	CHRISTIAN	33	11
ILLINOIS FED. AID PROJECT				

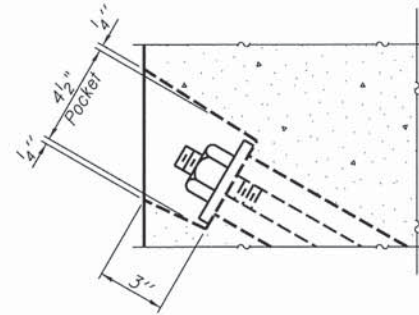


FABRIC BEARING PAD
(Interior)

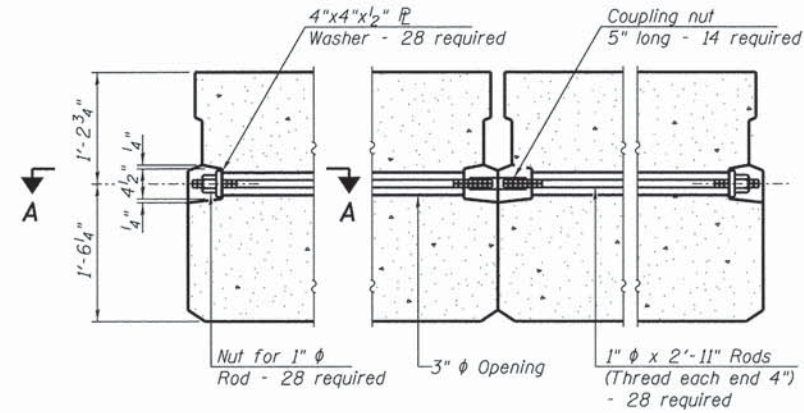
FABRIC BEARING PAD
(Exterior)

FIXED

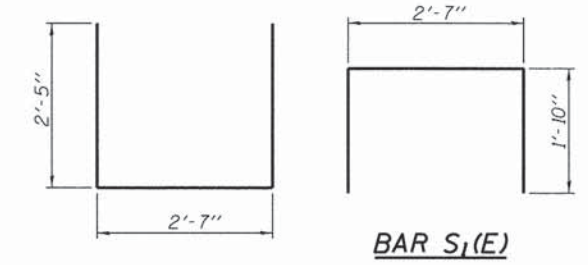
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



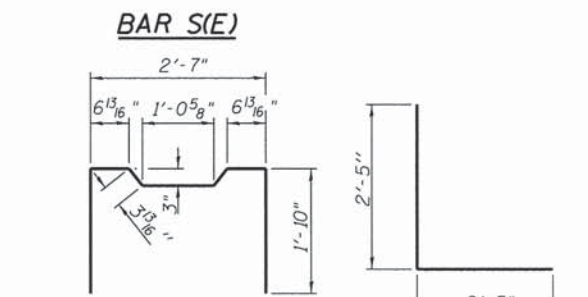
SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY

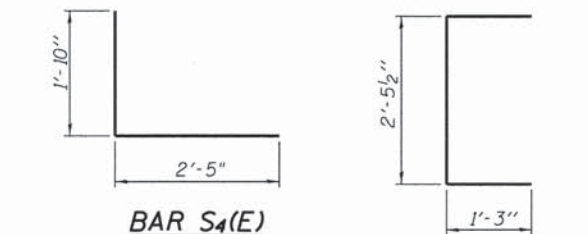


BAR S₁(E)

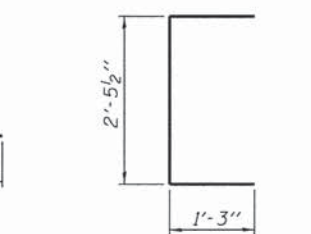


BAR S₂(E)

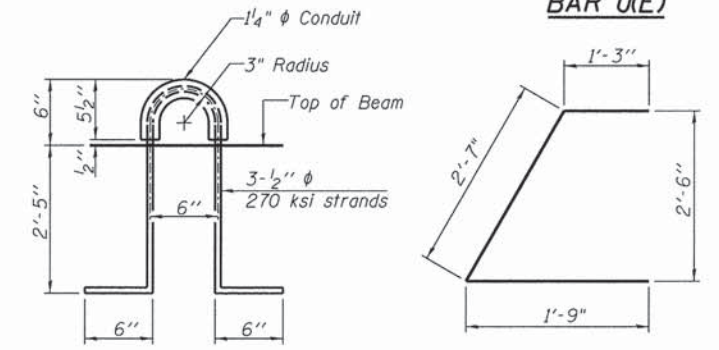
BAR S₃(E)



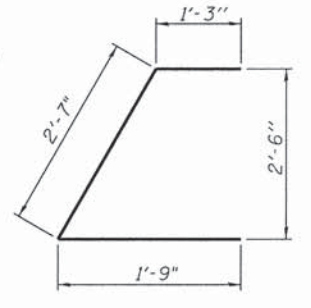
BAR S₄(E)



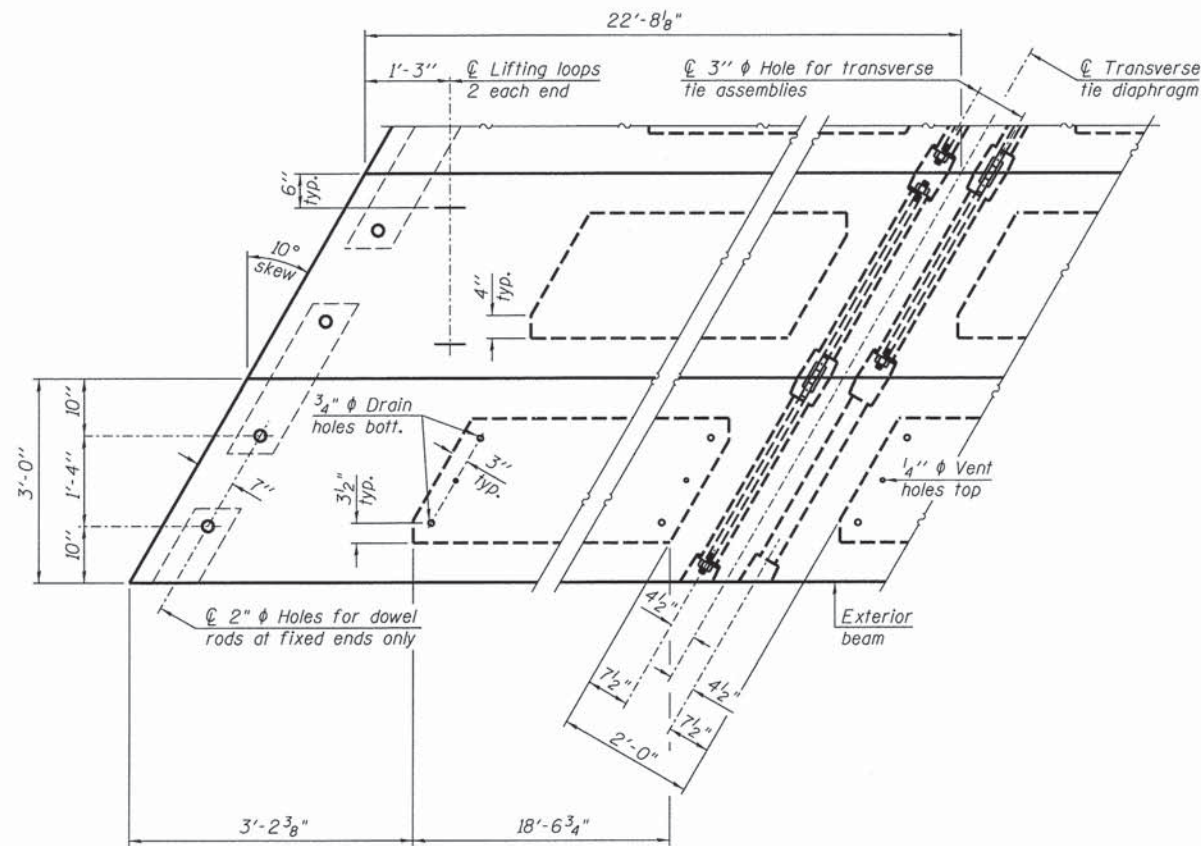
BAR UE₁(E)



LIFTING LOOP DETAIL



BAR U₁(E)



PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place. Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Compressive strength of prestressed concrete, f'c, shall be 6000 psi. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (33" depth)	Sq. Ft.	1619
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FILE NAME = I:\Municipalities\Christian County\588's Prairieton Top Bridge Replacement\CADD_Structural\beam.dgn

PD-3336-LD

7-1-10

USER NAME = rking	DESIGNED JMB	REVISED -
PLOT TIME = 7:38:23 AM	DRAWN RLK	REVISED -
PLOT SCALE = 1/8" = 1'-0"	CHECKED ACB	REVISED -
PLOT DATE = 12/16/2013	DATE 1/4/13	REVISED -

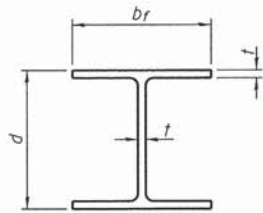
CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS

DECATUR (217) 422-8544
CHICAGO (773) 714-0050
ROCKFORD (815) 489-0050
184-001397

33" x 36" PPC DECK BEAM DETAILS
TR 151A (PRAIRIETON BRIDGE #21) OVER BIG GEORGE BRANCH

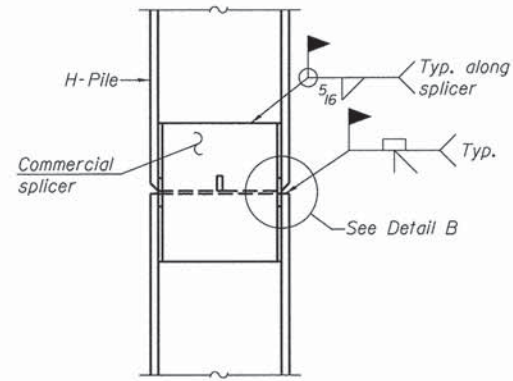
SCALE: SHEET NO. 5 OF 9 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 151A	12-12113-00-BR	CHRISTIAN	33	12
CONTRACT NO. 93621			ILLINOIS FED. AID PROJECT	

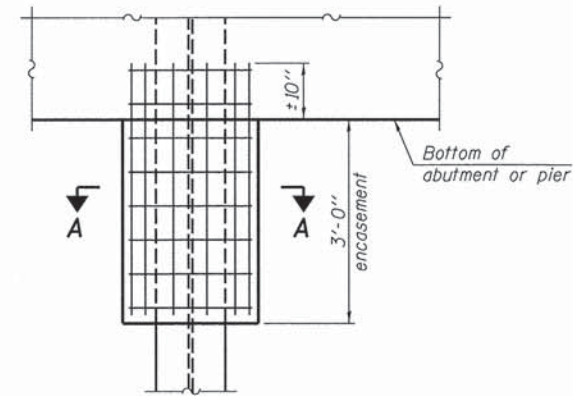


STEEL PILE TABLE

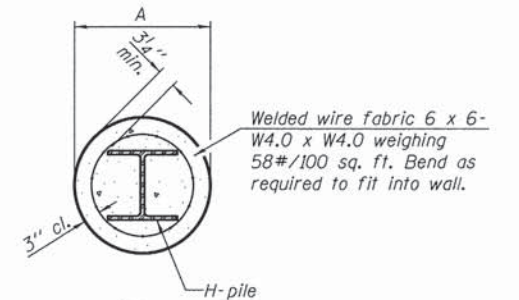
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11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



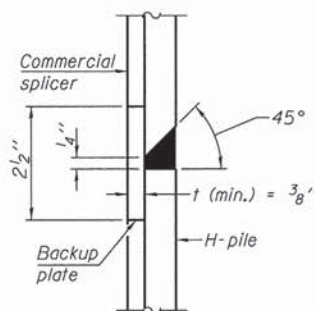
ELEVATION



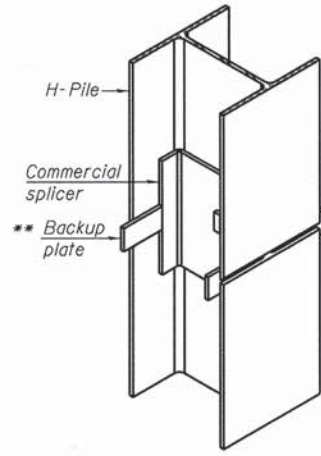
SECTION A-A

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

PILE ENCASEMENT

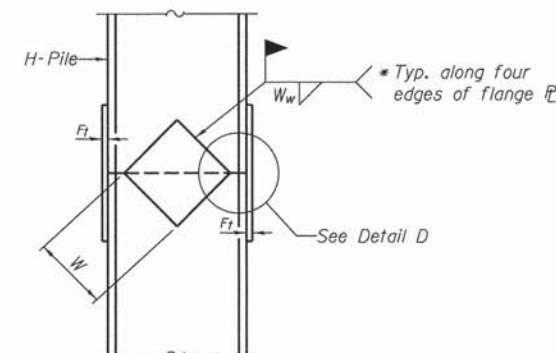


DETAIL "B"

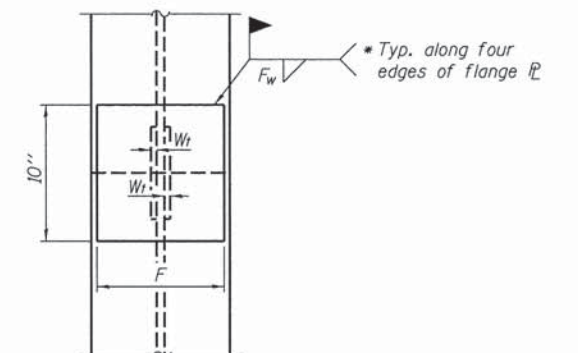


ISOMETRIC VIEW

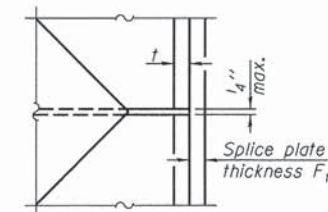
WELDED COMMERCIAL SPLICE



ELEVATION



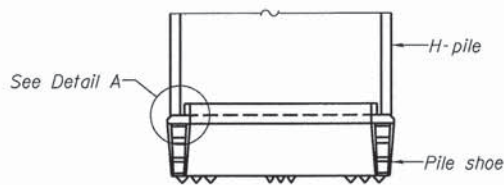
END VIEW



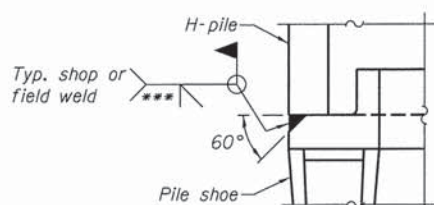
DETAIL D

WELDED PLATE FIELD SPLICE

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

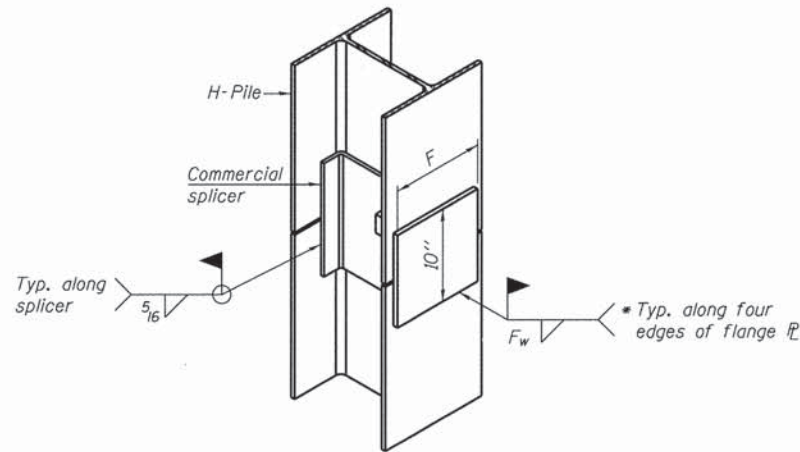


ELEVATION



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.).

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

FILE NAME = I:\Municipal\Idea\Christian County\5889 Proriation Top Bridge Replacement\0400_Structural\piles.dgn

F-HP

7-1-10

USER NAME = rking	DESIGNED JMB	REVISED -
PLOT TIME = 7:38:27 AM	DRAWN RLK	REVISED -
PLOT SCALE = 1.0000 "/>		

CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS

DECATUR (217) 422-8544
CHICAGO (773) 714-0050
ROCKFORD (815) 489-0050
184-001397

HP PILE DETAILS
TR 151A (PRAIRIETON BRIDGE #21) OVER BIG GEORGE BRANCH

SCALE: SHEET NO. 8 OF 9 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 151A	12-12113-00-BR	CHRISTIAN	33	15
CONTRACT NO. 93621			ILLINOIS FED. AID PROJECT	

TR151A Over Big George Branch
 Section No. 12-12113-00-BR
 Existing S.N. 011-3112
 Prairieton Township, Christian County, Illinois
 Project # 181-1412

ATLAS SOILS, INC.
 HILLSBORO, ILLINOIS
 PHONE 217/532-3959

DATE: April 18, 2012
 BORING TECH.: M. Malisla
 DRILLING TECH.: M. Hough

FOUNDATION BORING LOG

BORING NO.: 1	N	Qu	W	REC	GROUNDWATER ELEV.	N	Qu	W	REC
COORDINATES: 13' W, 5' N of SW corner of west abutment	Value	(tsf)	(%)	(%)	AT COMP.: Dry; Bridge at 597.2 ft.	Value	(tsf)	(%)	(%)
SURFACE ELEV.: 605.3 ft.					AFTER 21 HRS.: 596.7 ft.				
Oil and Chip Roadway (Approx. 10') 604.3 ft.					584.3 ft.				
SILTY CLAY LOAM (CL), Dark Gray, Dry to Moist, Stiff	12	1.98	14.9	45	SHALE, Gray, Dry to Moist, Hard, Slightly Fissile	100/17*	NP	12.7	80
Gray, Brown, Mottled, Medium Stiff, Trace of Sand	5	4	1.0	16.9	35	100/8*	NP	11.1	100
Dark Brown, Moist, Soft					25				
Gray, Medium Stiff	2	0.81	22.5	80	Moderately Fissile	100/8*	NP	10.8	100
SILTY CLAY LOAM TILL (CL), Gray, Moist, Soft, Trace of Sand and Gravel	3	0.89	19.1	95	Dry, Extremely Fissile	100/10*	NP	7.7	100
Gray, Brown, Mottled, Stiff, Few Sand	15	13	2.59	14.2	576.0 ft.				
Hard, Trace of Sand	34	4.04	9.1	100	End of Exploration at -29.3 ft.				
Dry to Moist	20	31	>4.50	11.8	30				

N: Blows per ft. to Drive 2" O.D. Split Spoon Sampler 12" with 140 lb. Hammer falling 30" (Standard Penetration Test)
 RQD: Rock Quality Determination
 Qu: Unconfined Compression Strength
 NP: Non-Plastic
 ST: Shelby Tube
 W: Water Content
 Type Failure:
 B: Bulge Failure
 S: Shear Failure
 NS: No Sample
 P: Penetrometer

TR151A Over Big George Branch
 Section No. 12-12113-00-BR
 Existing S.N. 011-3112
 Prairieton Township, Christian County, Illinois
 Project # 181-1412

ATLAS SOILS, INC.
 HILLSBORO, ILLINOIS
 PHONE 217/532-3959

DATE: April 18, 2012
 BORING TECH.: M. Malisla
 DRILLING TECH.: M. Hough

FOUNDATION BORING LOG

BORING NO.: 2	N	Qu	W	REC	GROUNDWATER ELEV.	N	Qu	W	REC
COORDINATES: 14' E, 5.2' S of NE corner of east abutment	Value	(tsf)	(%)	(%)	AT COMP.: 588.2 ft.; Bridge at 578.1 ft.	Value	(tsf)	(%)	(%)
SURFACE ELEV.: 605.3 ft.					AFTER 16 HRS.: 596.3 ft.				
Oil and Chip Roadway (Approx. 10') 604.3 ft.					584.3 ft.				
SILTY CLAY LOAM (CL), Gray, Mottled, Moist, Medium Stiff	6	1.41	18.0	70	SHALE, Gray, Dry, Hard, Moderately Fissile	100/15*	NP	6.6	100
Trace of Sand					Dry to Moist, Slightly Fissile	100/12*	NP	11.8	100
SILTY CLAY LOAM TILL (CL), Gray, Brown, Mottled, Moist, Soft, Trace of Sand and Gravel	5	5	1.5	15.8	25				
Moist to Wet, Few Sand					596.3 ft.				
Wet, Trace of Sand	2	0.36	19.7	100	576.0 ft.				
Gray, Moist, Very Stiff	15	15	3.80	29.2	End of Exploration at -29.3 ft.				
Hard	32	3.35	7.7	100					
Very Stiff	20	19	3.84	9.3					

N: Blows per ft. to Drive 2" O.D. Split Spoon Sampler 12" with 140 lb. Hammer falling 30" (Standard Penetration Test)
 RQD: Rock Quality Determination
 Qu: Unconfined Compression Strength
 NP: Non-Plastic
 ST: Shelby Tube
 W: Water Content
 Type Failure:
 B: Bulge Failure
 S: Shear Failure
 NS: No Sample
 P: Penetrometer

FILE NAME = I:\Municipalities\Christian County\5889 Prairieton Twp Bridge Replacement\CADD\Structural\borings\bdgn

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PLOT SCALE = 1,0000' / in.	CHECKED ACB	REVISED -
PLOT DATE = 12/16/2013	DATE 1/4/13	REVISED -

CHASTAIN & ASSOCIATES LLC
 CONSULTING ENGINEERS

DECATUR (217) 422-8544
 CHICAGO (773) 714-0050
 ROCKFORD (815) 489-0050
 184-001397

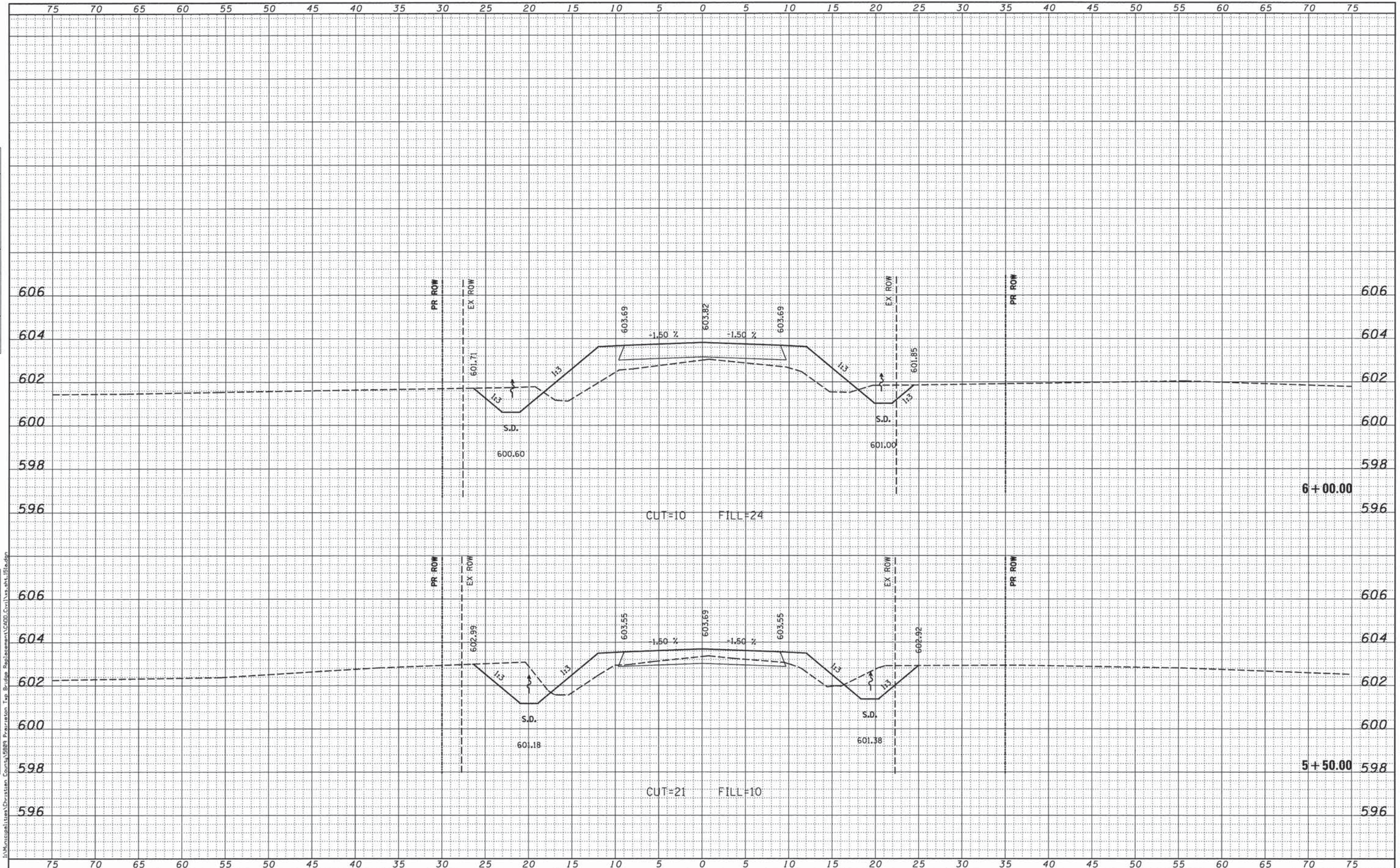
SOIL BORING LOGS
TR 151A (PRAIRIETON BRIDGE #21) OVER BIG GEORGE BRANCH

SCALE: SHEET NO. 9 OF 9 SHEETS STA. TO STA.

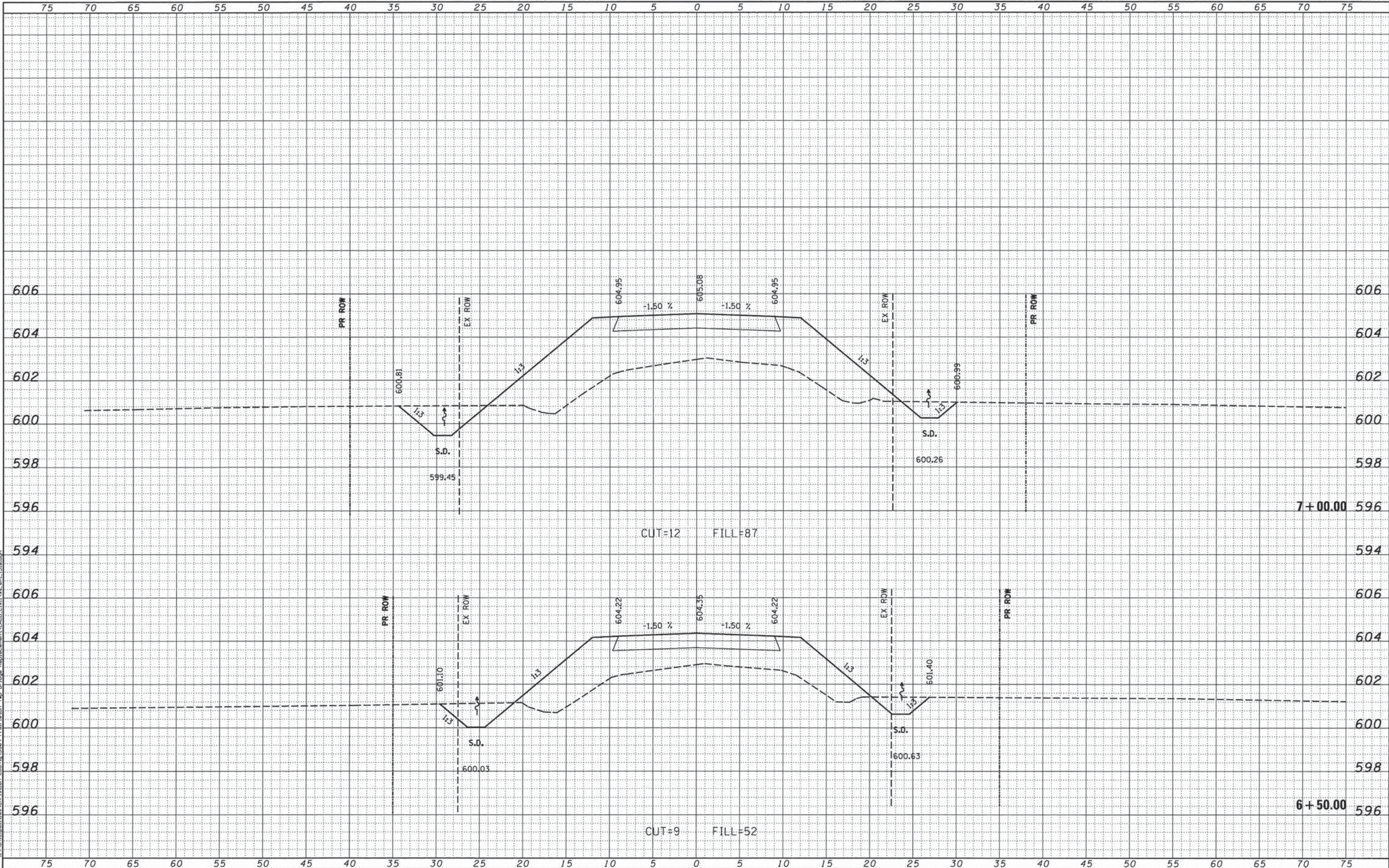
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TR 151A	12-12113-00-BR	CHRISTIAN	33	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 93621	

FINAL SURVEY	DATE
SURVEYED	BY
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NOTE BOOK	
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ORIGINAL SURVEY	DATE
SURVEYED	BY
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USER NAME = rking	DESIGNED -	REVISED -		CROSS SECTIONS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 5,0000' / 1"	DRAWN -	REVISED -		DECATUR (217) 422-8544	TR 151A		151A	12-12113-00-BR	CHRISTIAN	33	18
PLOT DATE = 12/16/2013	CHECKED -	REVISED -		CHICAGO (773) 714-0050	SCALE: 5'H / 2"V		SHEET NO. OF SHEETS		CONTRACT NO. 93621		
	DATE -	REVISED -		ROCKFORD (815) 489-0050	STA. 5+50.00 TO STA. 6+00.00		[ILLINOIS] FED. AID PROJECT				



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PLOT DATE = 12/16/2013	CHECKED -	REVISED -
	DATE -	REVISED -

CHASTAIN & ASSOCIATES LLC
 CONSULTING ENGINEERS
 DECATUR (217) 422-8544
 CHICAGO (773) 714-0050
 ROCKFORD (815) 489-0050
 184-001397

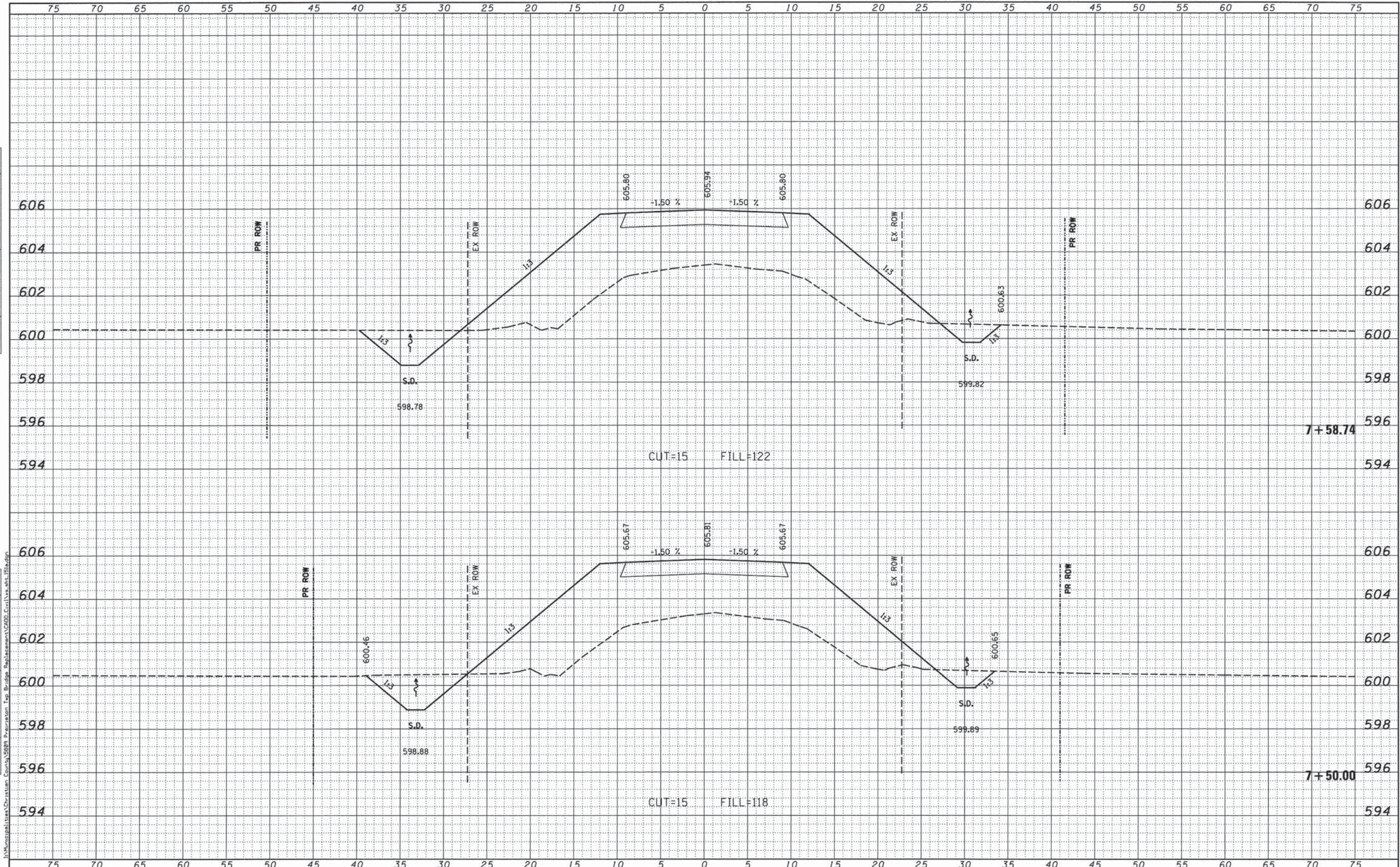
SCALE: 5'H / 2"V		SHEET NO. OF SHEETS		STA. 6+50.00 TO STA. 7+00.00	
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CROSS SECTIONS
TR 151A

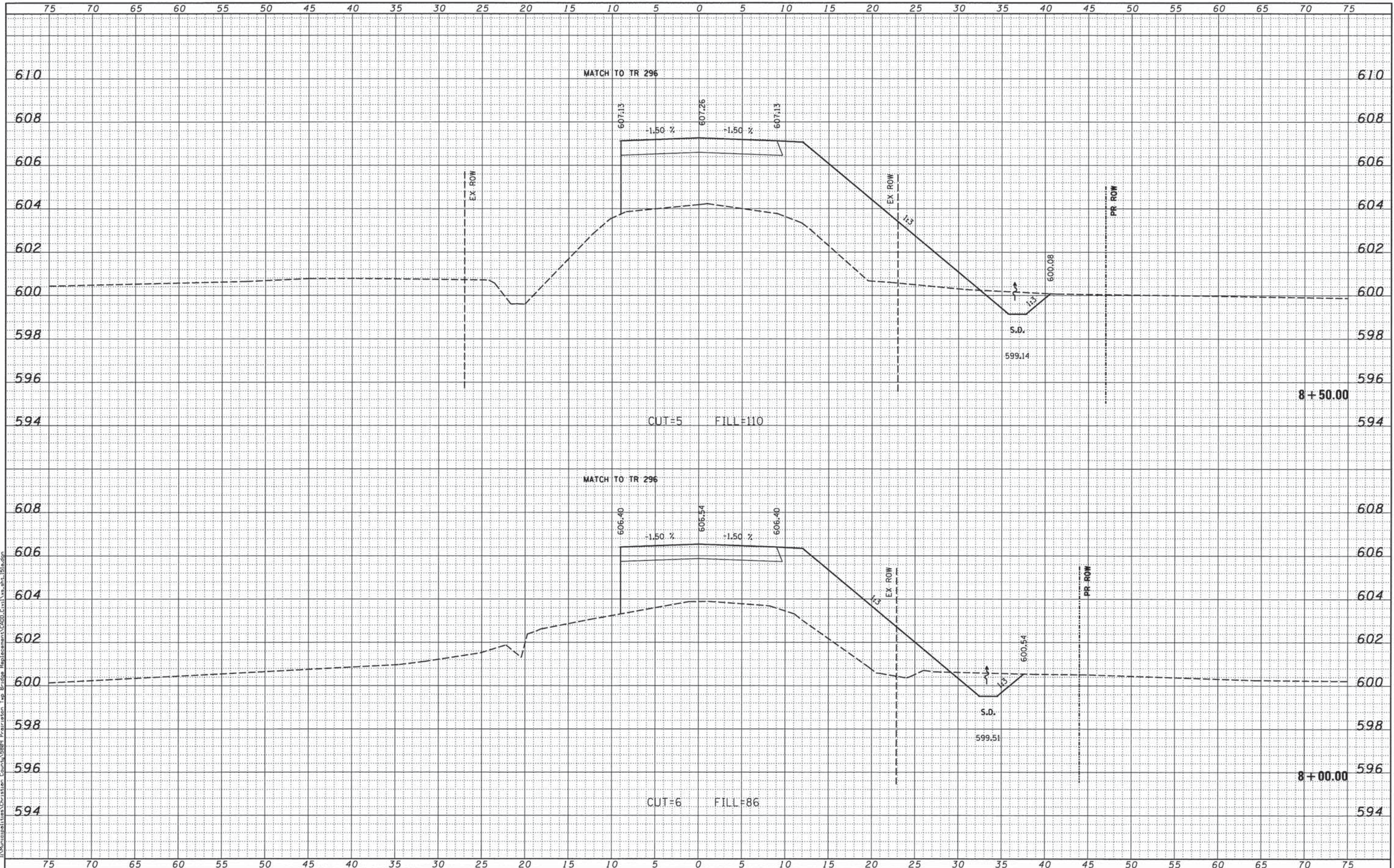
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151A	12-12113-00-BR	CHRISTIAN	33	19
CONTRACT NO. 93621			ILLINOIS FED. AID PROJECT	

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PLOT DATE = 12/16/2013	CHECKED -	REVISED -		CHICAGO (773) 714-0050	SCALE: 5'H / 2"V	SHEET NO. OF SHEETS	STA. 7+50.00 TO STA. 7+58.74		CONTRACT NO. 93621		
	DATE -	REVISED -		ROCKFORD (815) 489-0050	ILLINOIS FED. AID PROJECT						



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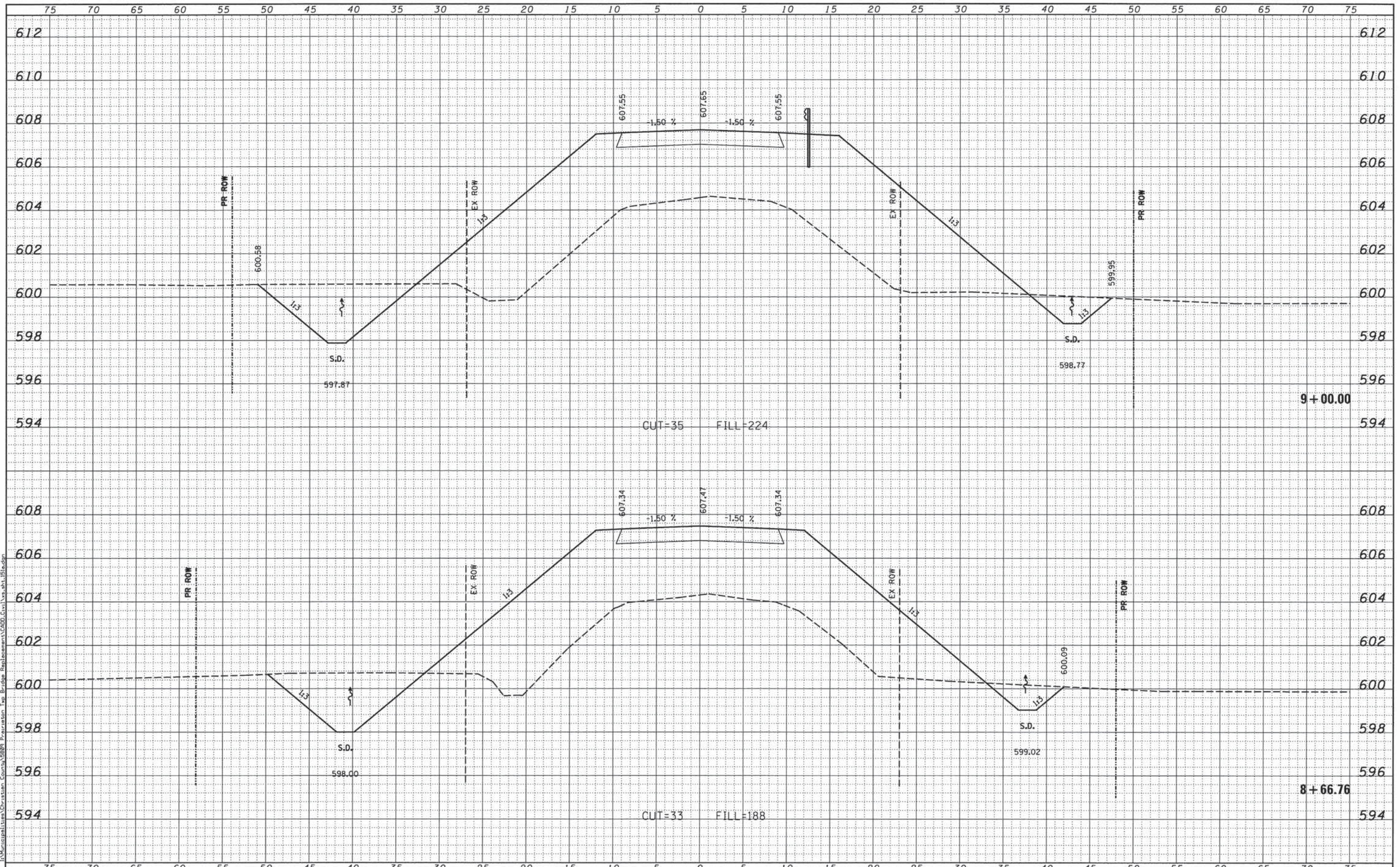
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	CHECKED -	REVISED -
	DATE -	REVISED -

CHASTAIN & ASSOCIATES LLC
 CONSULTING ENGINEERS
 DECATUR (317) 422-8544
 CHICAGO (773) 714-0050
 ROCKFORD (815) 489-0050
 184-001397

CROSS SECTIONS			
TR 151A			
SCALE: 5'H / 2"V	SHEET NO. OF	SHEETS	STA. 8+00.00 TO STA. 8+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
151A	12-12113-00-BR	CHRISTIAN	33	21
CONTRACT NO. 93621				
ILLINOIS FED. AID PROJECT				



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CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS

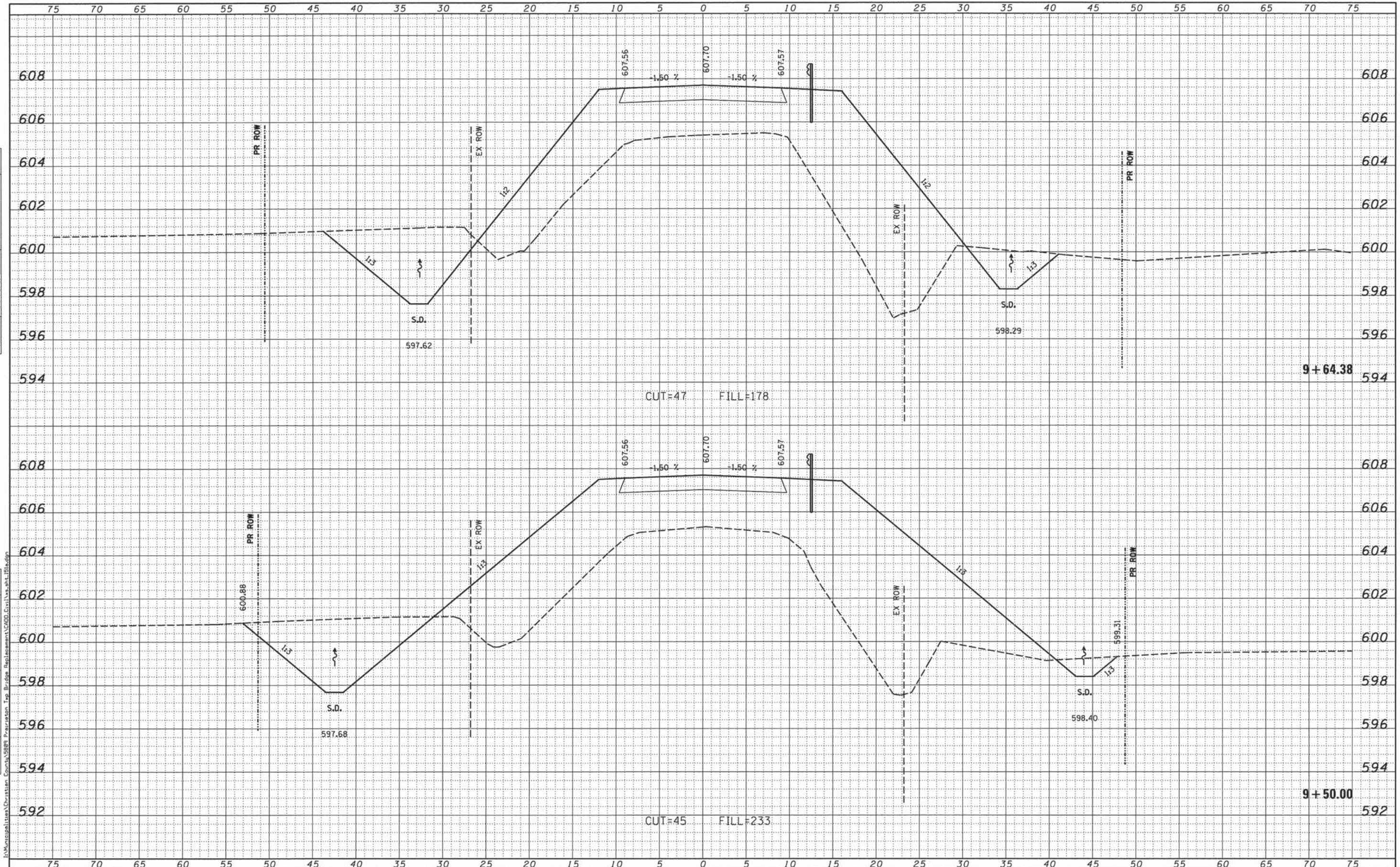
DECATUR (317) 422-8544
CHICAGO (773) 714-0050
ROCKFORD (815) 489-0050
184-001397

CROSS SECTIONS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 151A		151A	12-12113-00-BR	CHRISTIAN	33	22
SCALE: 5'H / 2"V		SHEET NO. OF SHEETS		STA. 8+66.76 TO STA. 9+00.00		

CONTRACT NO. 93621		ILLINOIS FED. AID PROJECT	
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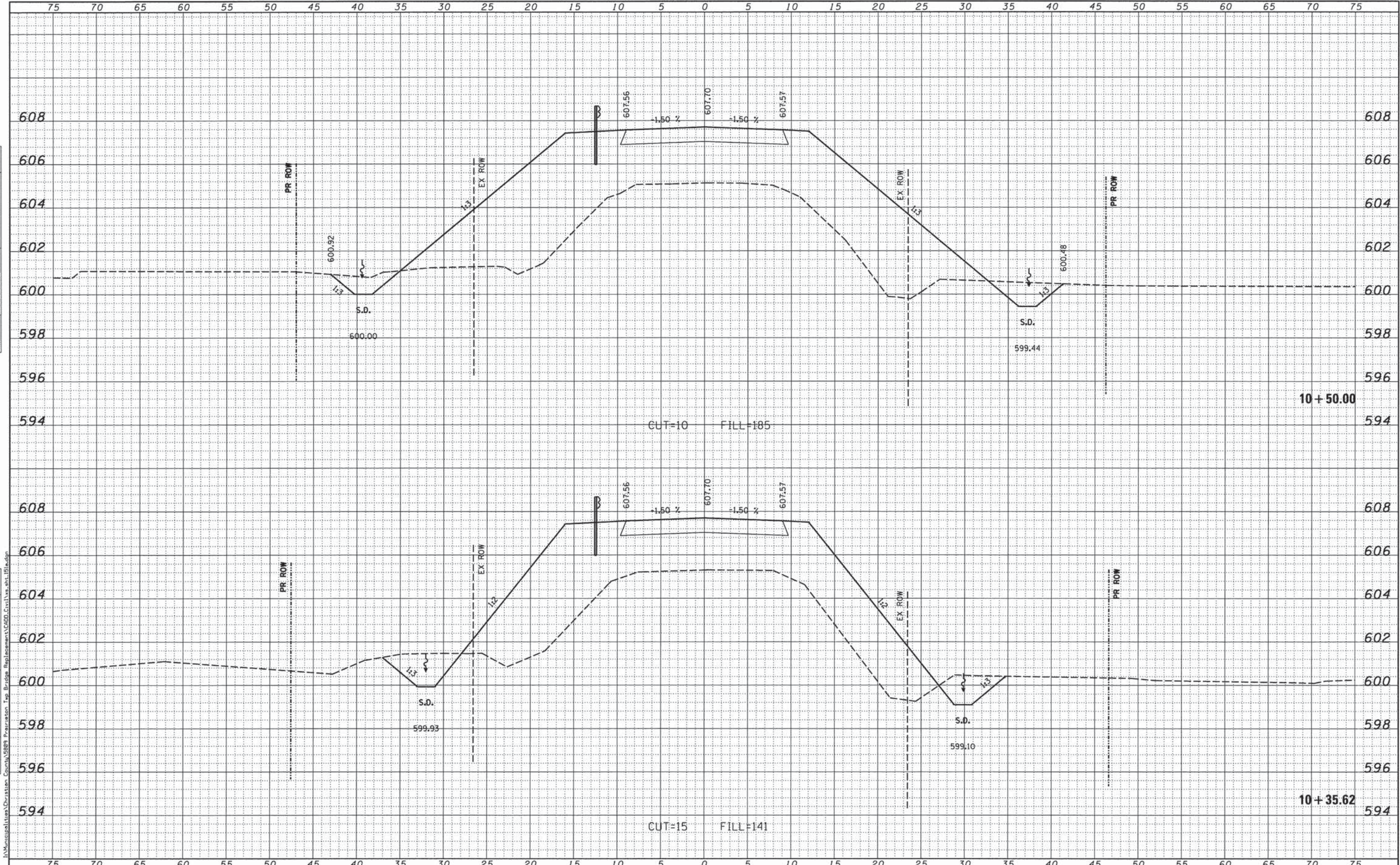
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PLOT DATE = 12/16/2013	CHECKED -	REVISED -		CHICAGO (773) 714-0050	SCALE: 5'H / 2'V	SHEET NO. OF SHEETS	STA. 9+50.00 TO STA. 9+64.38		CONTRACT NO. 9 8 6 2 1		(ILLINOIS) FED. AID PROJECT
	DATE -	REVISED -		ROCKFORD (815) 489-0050							

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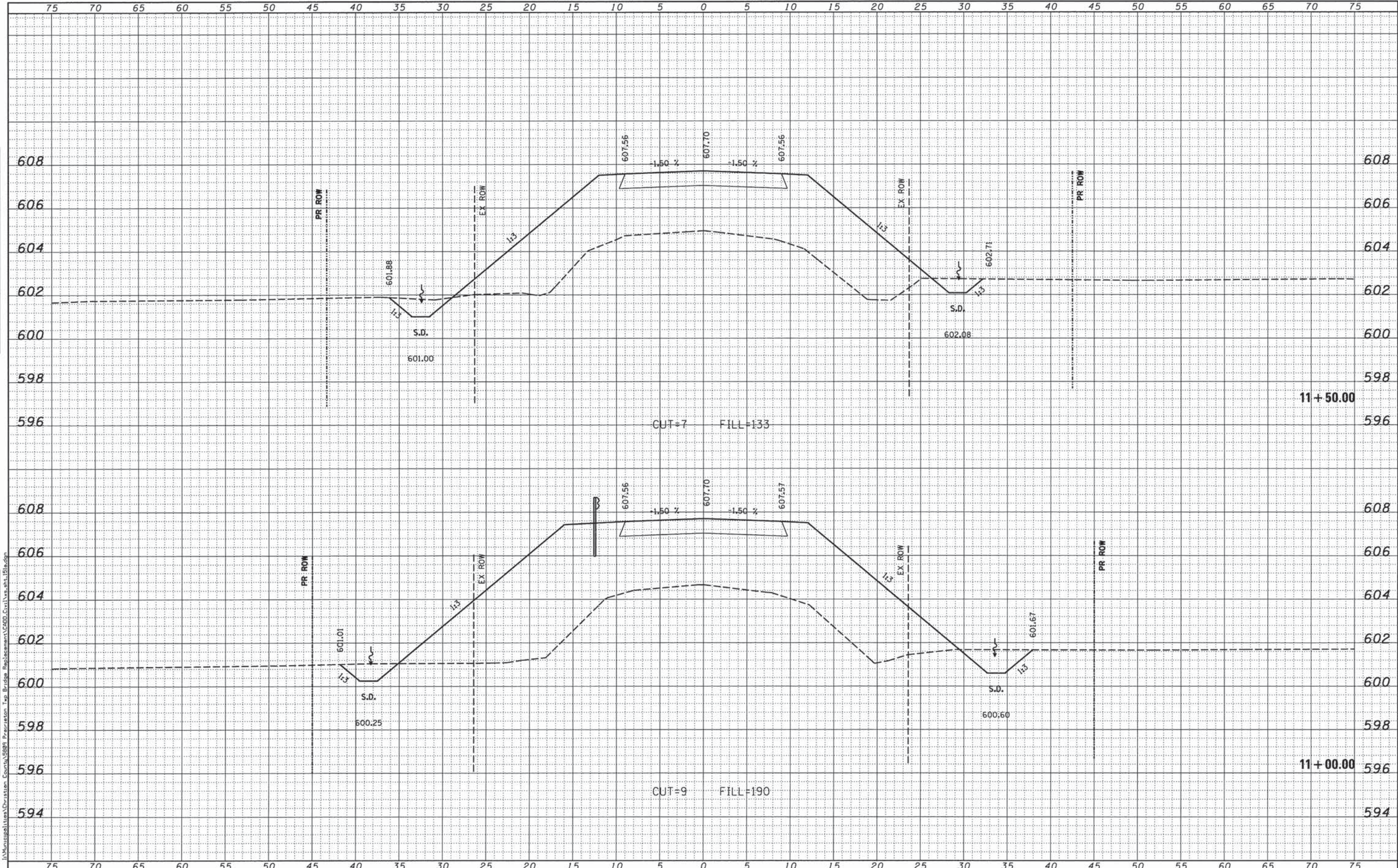
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PLOT DATE = 12/16/2013	CHECKED -	REVISED -		CHICAGO (773) 714-0050	SCALE: 5'H / 2"V		SHEET NO. OF SHEETS		CONTRACT NO. 93621		(ILLINOIS) FED. AID PROJECT
	DATE -	REVISED -		ROCKFORD (815) 489-0050	STA. 10+35.62 TO STA. 10+50.00						

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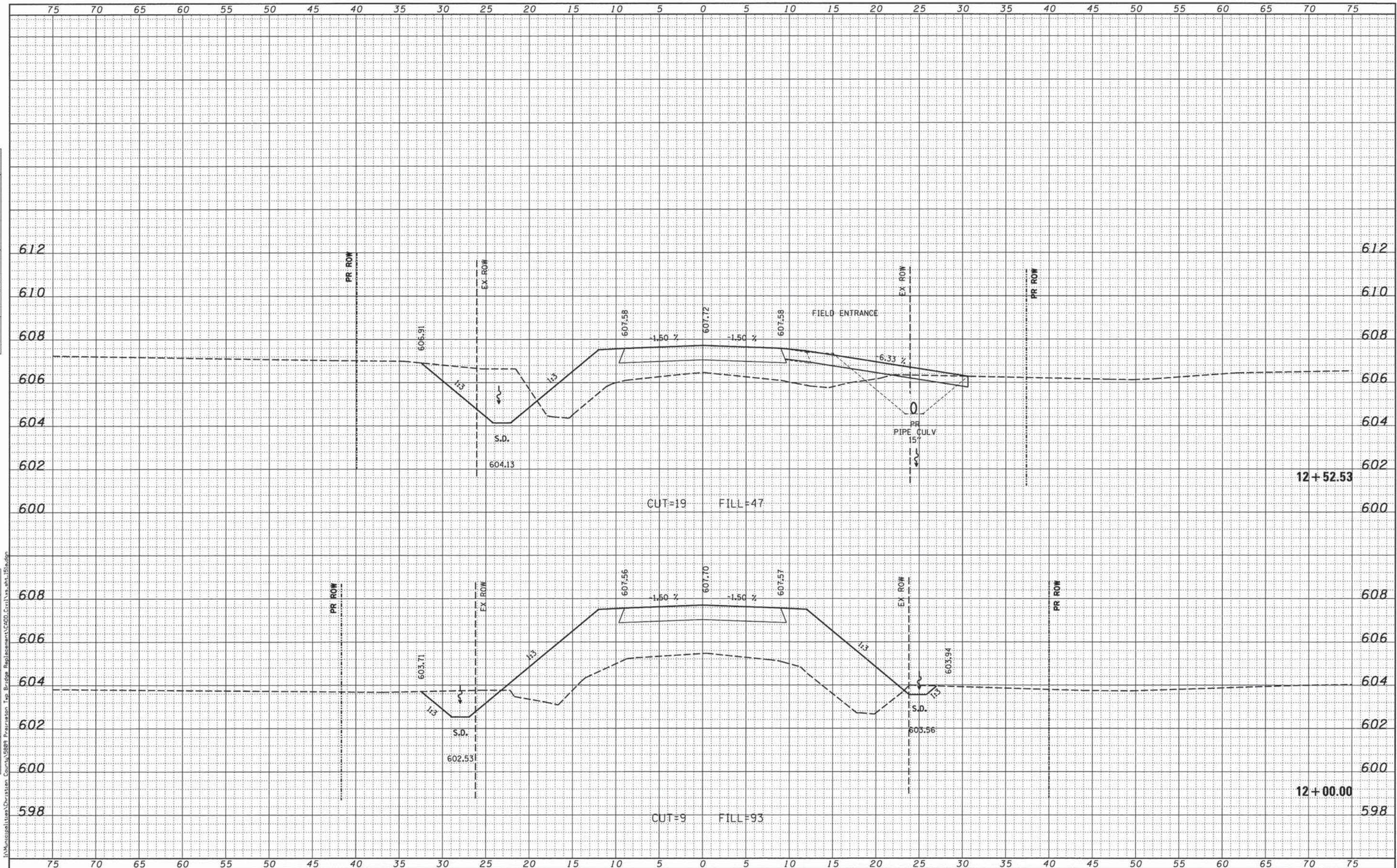
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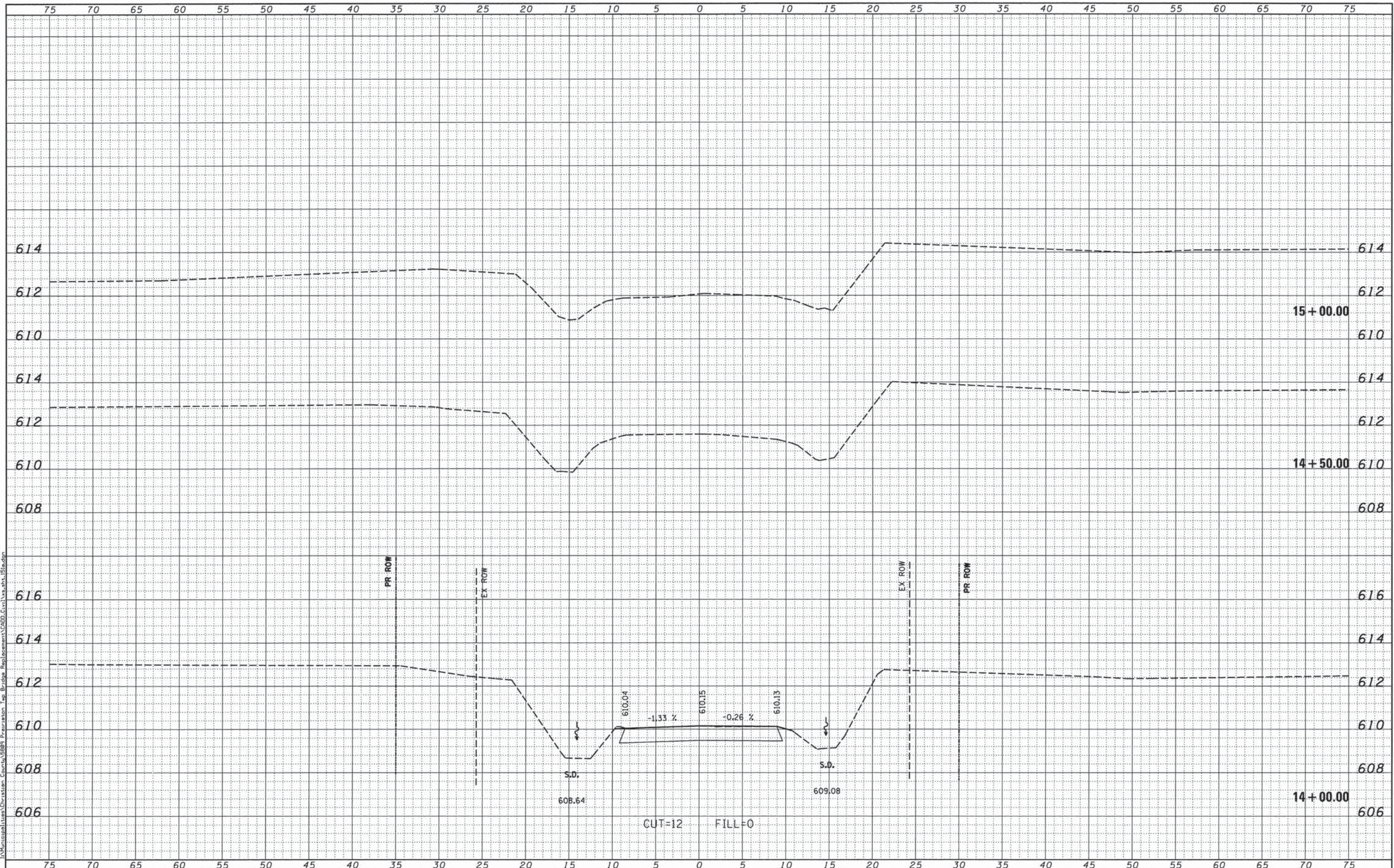
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PLOT SCALE = 5,000' / 1"	DRAWN -	REVISED -					151A	12-12113-00-BR	CHRISTIAN	33	25
PLOT DATE = 12/16/2013	CHECKED -	REVISED -					CONTRACT NO. 93621				
	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
							SCALE: 5'H / 2"V SHEET NO. OF SHEETS STA. 11+00.00 TO STA. 11+50.00				

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USER NAME = rking	DESIGNED -	REVISED -		DECATUR (217) 422-8544 CHICAGO (773) 714-0050 ROCKFORD (815) 489-0050 184-001397	CROSS SECTIONS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 5.0000' / in.	DRAWN -	REVISED -			151A	12-12113-00-BR	CHRISTIAN	33	26		
PLOT DATE = 12/16/2013	CHECKED -	REVISED -			SCALE: 5'H / 2"V		SHEET NO. OF SHEETS	STA. 12+00.00 TO STA. 12+52.53	CONTRACT NO. 93621		
	DATE -	REVISED -							ILLINOIS FED. AID PROJECT		



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USER NAME = rking	DESIGNED -	REVISIONS -
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PLOT DATE = 12/16/2013	CHECKED -	REVISIONS -
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CHASTAIN & ASSOCIATES LLC
 CONSULTING ENGINEERS
 DECATUR (317) 422-8544
 CHICAGO (773) 714-0060
 ROCKFORD (815) 489-0050
 184-001397

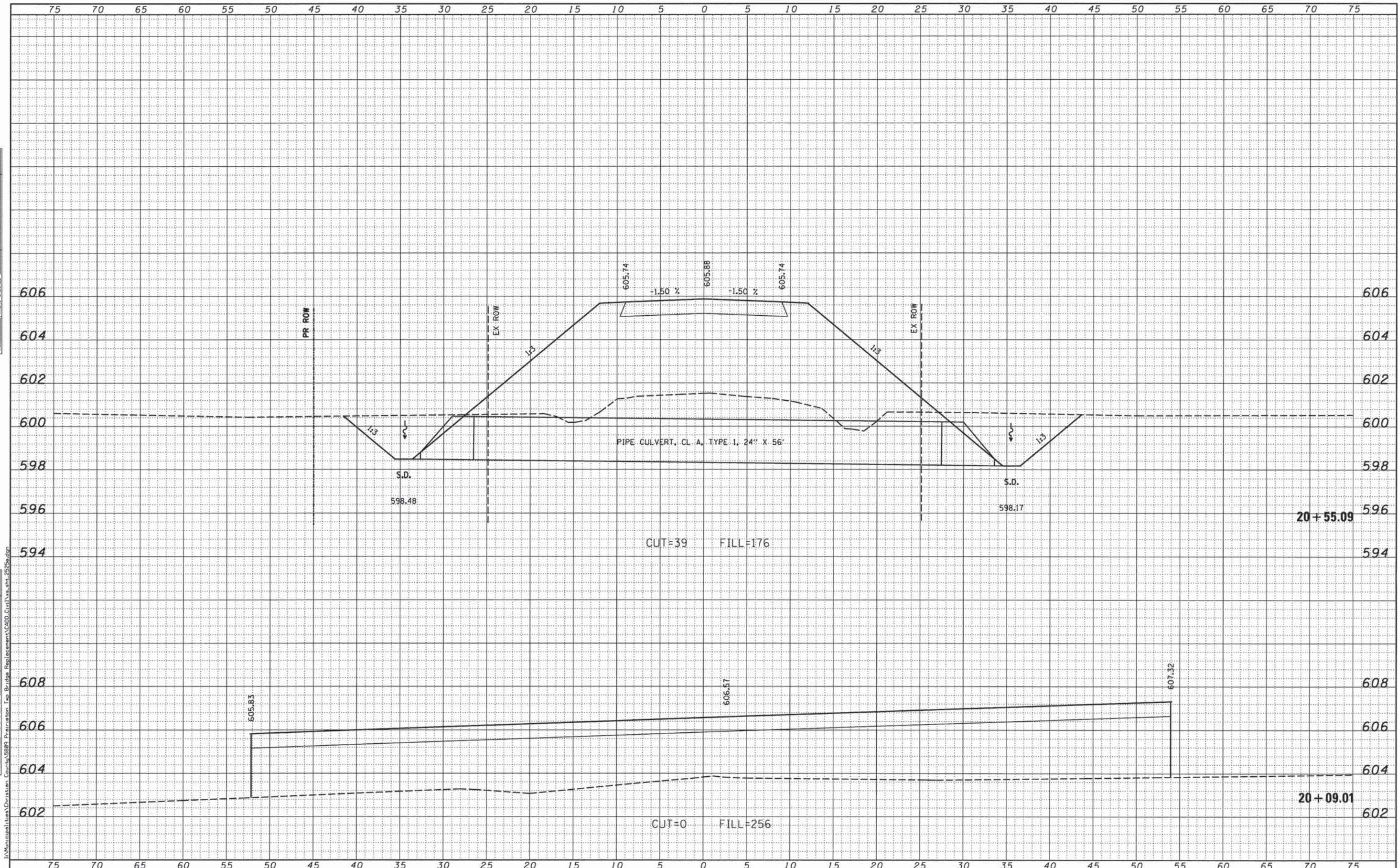
SCALE: 5'H / 2"V		SHEET NO. OF SHEETS		STA. 14+00.00 TO STA. 15+00.00	
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CROSS SECTIONS
TR 151A

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
151A	12-12113-00-BR	CHRISTIAN	33	28
CONTRACT NO. 93621			ILLINOIS FED. AID PROJECT	

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NOTE BOOK	PLOTTED
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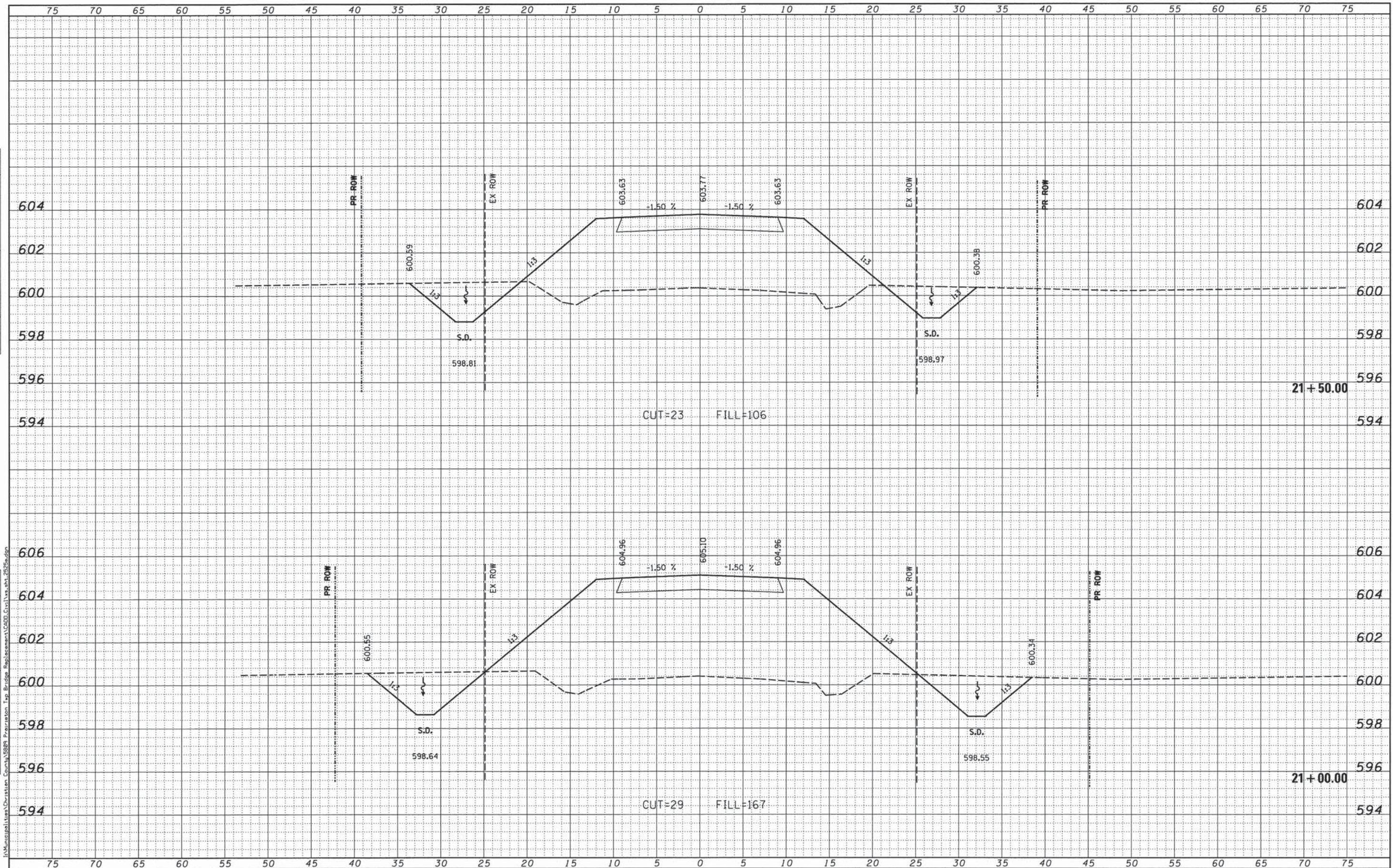
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USER NAME = rking	DESIGNED -	REVISED -		DECATUR (217) 422-8544 CHICAGO (773) 714-0050 ROCKFORD (815) 489-0050 184-001397	CROSS SECTIONS TR 296		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 5.0000' / 1\"/>											
PLOT DATE = 12/16/2013	DATE -	REVISED -					TR296	12-12113-00-BR	CHRISTIAN	33	29
							CONTRACT NO. 93621		ILLINOIS FED. AID PROJECT		

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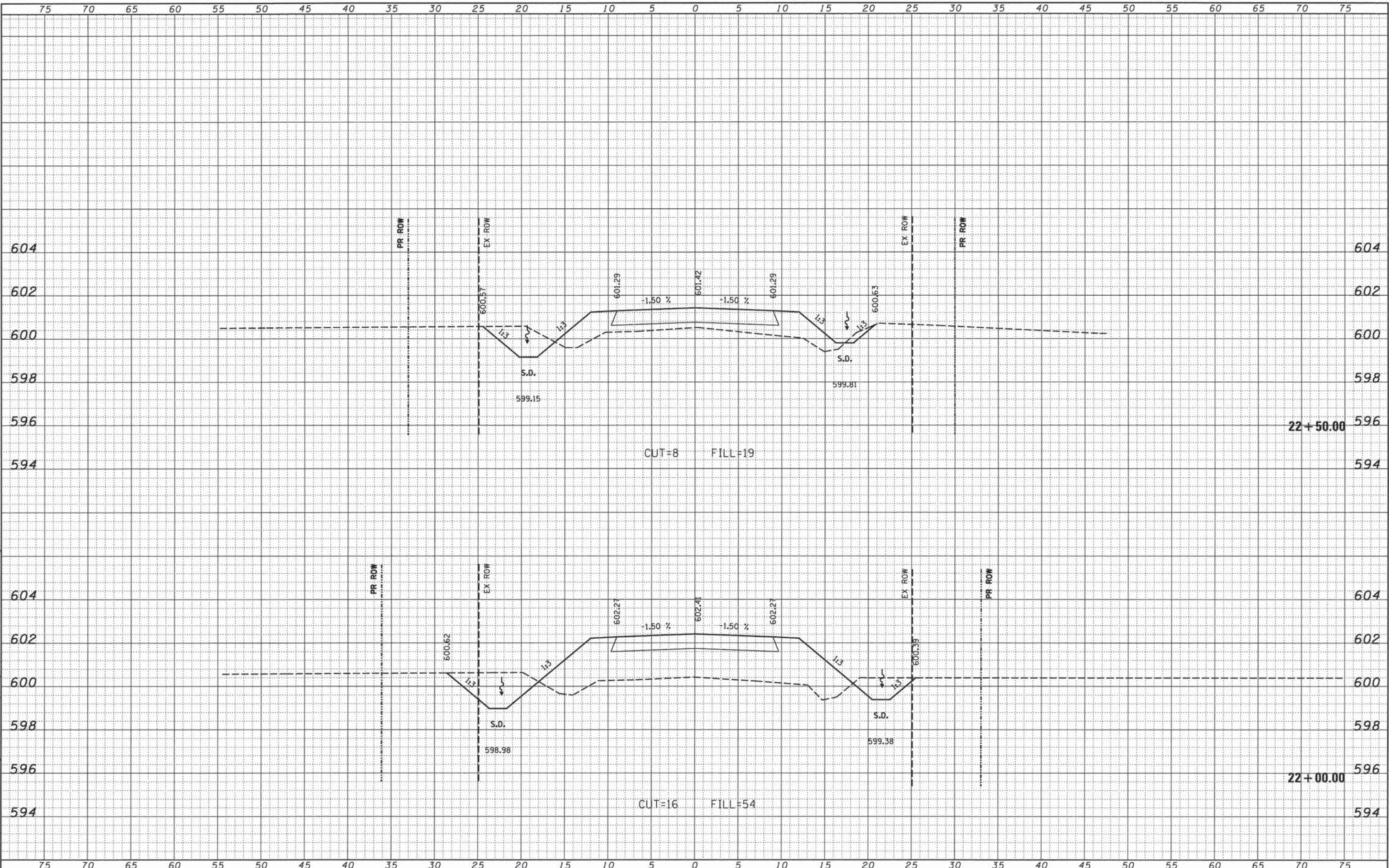


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PLOT DATE = 12/16/2013	CHECKED -	REVISED -		ROCKFORD	(815) 489-0050		CONTRACT NO. 9 3 0 2 1		[ILLINOIS] FED. AID PROJECT		
	DATE -	REVISED -		184-001397	SCALE: 5'H / 2"V		SHEET NO. OF SHEETS		STA. 21+00.00 TO STA. 21+50.00		

FINAL SURVEY	DATE
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CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS

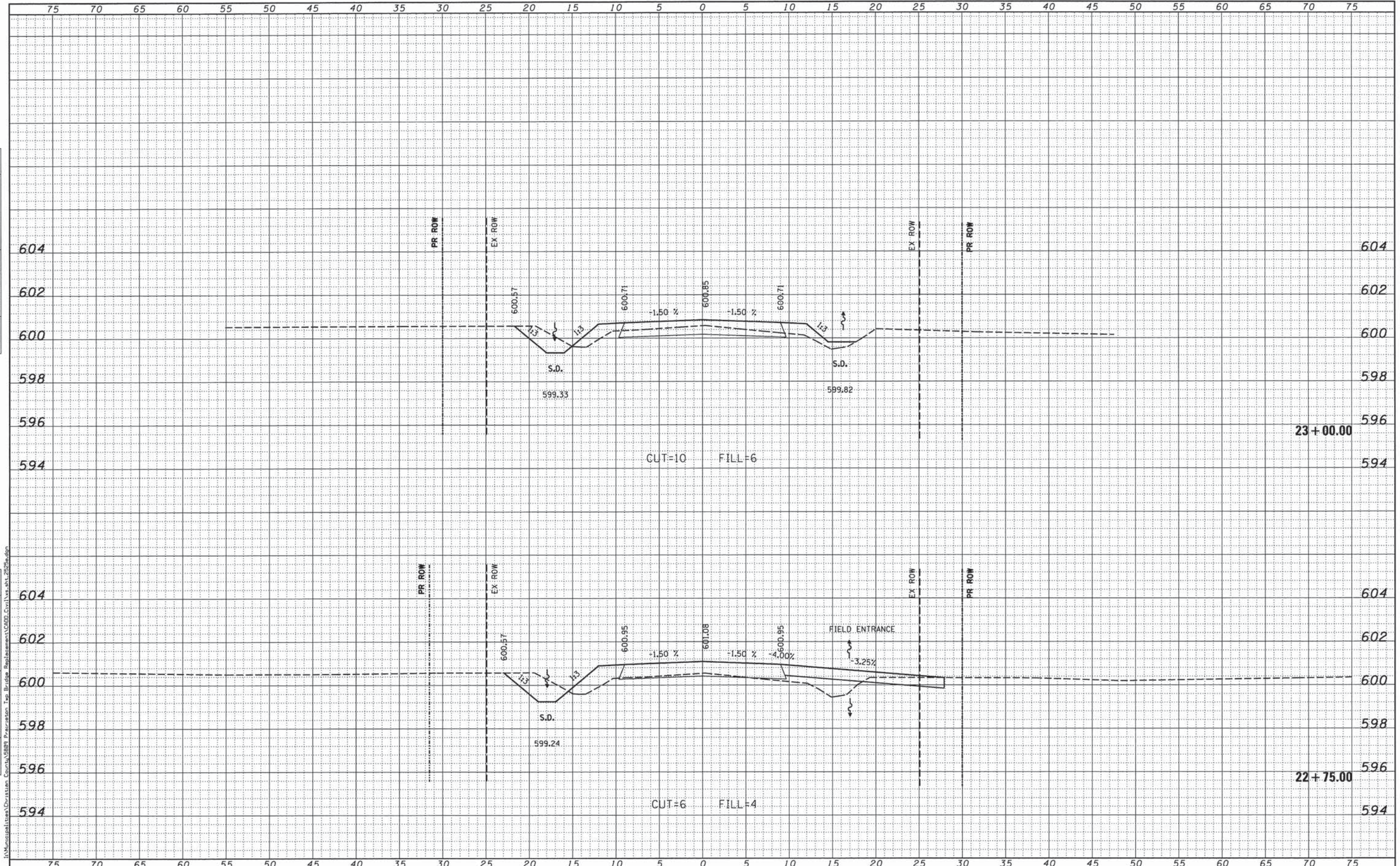
DECATUR (317) 422-8544
CHICAGO (773) 714-0060
ROCKFORD (815) 489-0050
184-001397

CROSS SECTIONS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 296		TR296	12-12113-00-BR	CHRISTIAN	33	31
SCALE: 5'H / 2"V	SHEET NO. OF SHEETS	STA. 22+00.00 TO STA. 22+50.00		CONTRACT NO. 93621		

ILLINOIS FED. AID PROJECT	
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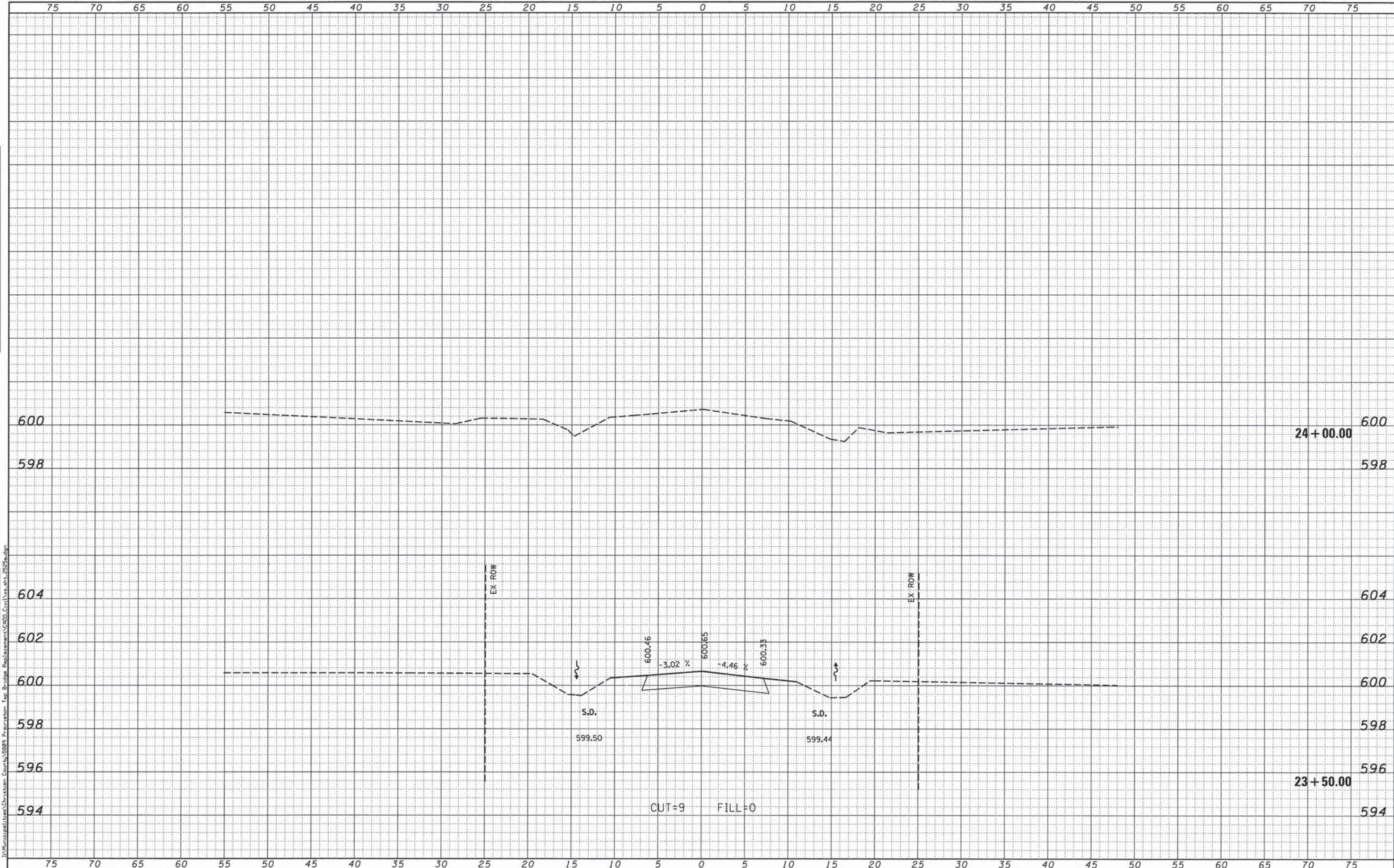
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USER NAME = rking	DESIGNED -	REVISED -		CROSS SECTIONS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	DATE -	REVISED -		ROCKFORD (815) 489-0050	STA. 23+50.00 TO STA. 24+00.00		ILLINOIS FED. AID PROJECT				