

PLANS FOR PROPOSED LOCAL AGENCY IMPROVEMENTS HIGHWAY BRIDGE PROGRAM

Table with columns: T.R. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., FED. ROAD DIST. NO., ILLINOIS, CONTRACT NO.

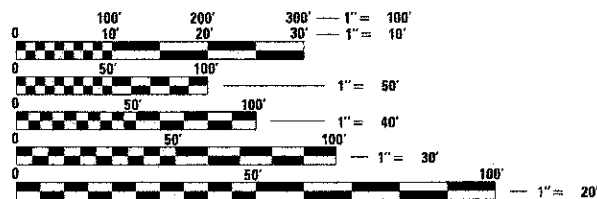
Table with columns: SHEET NO., DESCRIPTION

STANDARDS

Table listing standards: 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS; 280001-06 TEMPORARY EROSION CONTROL SYSTEMS; etc.

UTILITIES

ILLINOIS CONSOLIDATED TELEPHONE LITCHFIELD, ILLINOIS 62056; SHELBY ELECTRIC COOPERATIVE SHELBYVILLE, ILLINOIS 62565

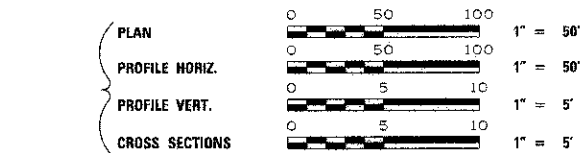


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

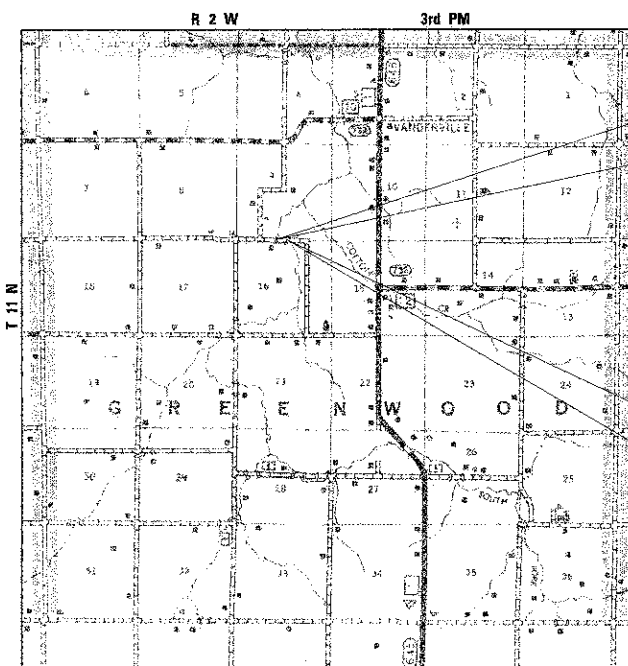
J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER PROJECT MANAGER

CONTRACT NO. 93567



TR ROUTE 307A SECTION 08-04118-00-BR CHRISTIAN COUNTY GREENWOOD ROAD DISTRICT PROJECT BROS-0021(178) JOB NUMBER C-96-225-10



NET LENGTH OF PROJECT = 1300.00 FEET = 0.246 MILES

DESIGN DESIGNATION

LOCAL ROAD: ADT < 150 DESIGN SPEED: 30 MPH

STA. 11+00.00 BEGIN IMPROVEMENTS SECTION 08-04118-00-BR

EXISTING STRUCTURE NO. 011-3247 EXISTING 61' X 14' SINGLE SPAN PONY TRUSS BRIDGE

PROPOSED STRUCTURE NO. 011-3417 THREE SPAN PPC DECK BEAM BRIDGE ON REINFORCED CONCRETE SPILL THRU ABUTMENTS AND CONCRETE ENCASED PILE BENT PIERS. 105'-0" BACK TO BACK ABUTMENTS, 24'-0" OUT TO OUT DECK

STA. 24+00.00 END IMPROVEMENTS SECTION 08-04118-00-BR



Signature: William C. Scott, 12/15/2011, EXPIRES: 11/30/13



LOCATION OF SECTION INDICATED THUS: - [black box] -

Approval stamps: APPROVED, PASSED, with signatures and dates for County Engineer, Road Commissioner, District Six Engineer of Local Roads & Streets, and District Six Engineer of Construction.

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GENERAL NOTES

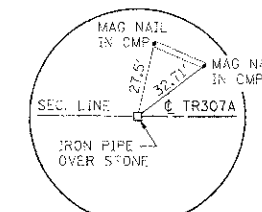
- WHEN SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENT UNTIL THE OWNER OR AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- SEE SPECIAL PROVISIONS FOR SEEDING RATES.
- ALL PLAN ELEVATIONS REPRESENT ASSUMED DATUM.
- THE LOCATIONS OF THOSE BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTOR TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVE GROUND UTILITIES, REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. J.U.L.I.E. MEMBERS ACTIVE IN THE VICINITY OF THE PROJECT ARE LISTED ON THE COVER SHEET.
- APPLICATION RATES:  
 AGGREGATE BASE COURSE: 2.05 TONS/CU YD  
 COVER & SEAL COAT AGGREGATE: 25 LBS/SQ YD  
 BITUMINOUS MATL'S (PRIME COAT): 0.375 GAL/SQ YD  
 BITUMINOUS MATL'S (C & S COATS): 0.35 GAL/SQ YD  
 STONE RIPRAP, CLASS A4: 1.5 TONS/CU YD  
 TEMPORARY DITCH CHECKS: 10 FOOT/EA LOCATION

SUMMARY OF QUANTITIES

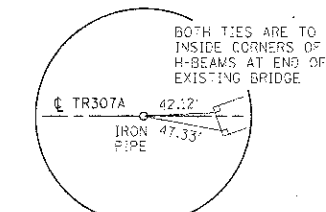
PAY ITEM	ITEM	UNIT	TOTAL
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	374
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	26
20200100	EARTH EXCAVATION	CU YD	2,194
20300100	CHANNEL EXCAVATION	CU YD	191
20400800	FURNISHED EXCAVATION	CU YD	3,195
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	600
28000305	TEMPORARY DITCH CHECKS	FOOT	220
28000400	PERIMETER EROSION BARRIER	FOOT	644
28100207	STONE RIPRAP, CLASS A4	TON	448
28200200	FILTER FABRIC	SQ YD	673
35101400	AGGREGATE BASE COURSE, TYPE B	TON	1,140
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	1,000
40300300	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	GALLON	2,520
40300500	COVER COAT AGGREGATE	TON	62
40300600	SEAL COAT AGGREGATE	TON	31
48101200	AGGREGATE SHOULDERS, TYPE B	TON	50
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	28
50200300	COFFERDAM EXCAVATION	CU YD	81
50201101	COFFERDAM (TYPE 1) (LOCATION-1)	EACH	1
50201102	COFFERDAM (TYPE 1) (LOCATION-2)	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	119.2
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SO FT	2,473
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	10,280
50900205	STEEL RAILING, TYPE S-1	FOOT	210
51200957	FURNISHING METAL SHELL PILES, 12" X 0.25"	FOOT	762
51202305	DRIVING PILES	FOOT	762
51203200	TEST PILE, METAL SHELLS	EACH	2
51500100	NAME PLATES	EACH	1
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 MARKERS - DIRECT APPLIED	EACH	2
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	2.0

\* SPECIAL PROVISION CONSTRUCTION TYPE CODE: 0011 (X080)  
 Δ SPECIALTY ITEMS

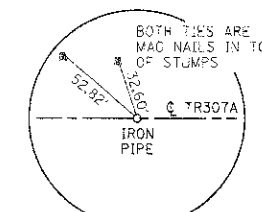
CENTERLINE TIES



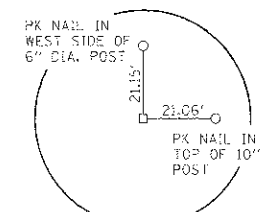
P.O.T. STA. 2+35.92  
 SW COR., SE 1/4, SW 1/4, SEC. 9,  
 T11N, R2W, 3RD P.M.  
 IRON PIPE OVER STONE  
 N 999, 111, 6009  
 E 2, 535, 494, 4470



P.O.T. STA. 15+00.00  
 IRON PIPE  
 N 999, 111, 2983  
 E 2, 536, 758, 5270



P.O.T. STA. 18+00.00  
 IRON PIPE  
 N 999, 111, 2265  
 E 2, 537, 058, 5270



STA. 28+87.35, 20.40' RT  
 SE COR., SW 1/4, SE 1/4, SEC. 9  
 T11N, R2W, 3RD P.M.  
 STONE  
 N 999, 090, 5702  
 E 2, 538, 145, 8741

GREEN & BRADFORD, INC.  
 OF ILLINOIS  
 1000 N. WASHINGTON ST.  
 DEPT. 100  
 CHICAGO, ILL. 60610  
 TEL. 312.467.1000  
 FAX 312.467.1001  
 WWW.GREENANDBRADFORD.COM

FILE NAME =	USER NAME = #USER#	DESIGNED - WCB	REVISED - A4 04/20/11
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PLOT DRIVER = #PLOTTER#	PLOT DATE = #DATE#	DATE - 6/29/09	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TR 307A  
 SUMMARY OF QUANTITIES, GENERAL NOTES & CENTERLINE TIES

SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	T.R. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
				307A	08-04118-00-BR	CHRISTIAN	26
						CONTRACT NO. 93867	2
FED. ROAD DIST. NO. ILLINOIS/FED. AID PROJECT BROS-0021 (178)							

TREE REMOVAL SCHEDULE		
	6 TO 15 UNITS DIA. (UNIT)	OVER 15 UNITS DIA. (UNIT)
STA. 14+72, 22' RT.		20
STA. 14+78, 21' RT.		18
STA. 14+88, 22' RT. (3 x 14")	42	
STA. 14+92, 24' RT.	12	
STA. 14+96, 37' RT.	12	
STA. 15+21, 39' LT.		20
STA. 15+21, 22' LT.	8	
STA. 15+26, 28' RT.	6	
STA. 15+29, 28' LT.		30
STA. 15+39, 25' RT. (2 x 12")	24	
STA. 15+43, 25' RT.	12	
STA. 15+51, 21' RT.	12	
STA. 15+53, 16' RT.	12	
STA. 15+54, 19' RT.	12	
STA. 15+65, 52' RT. (4 x 10")	40	
STA. 15+67, 32' LT.		18
STA. 15+96, 40' LT.	8	
STA. 16+00, 4' RT.	8	
STA. 16+06, 44' LT.		20
STA. 16+07, 7' RT.	8	
STA. 16+08, 13' RT.	8	
STA. 16+12, 11' RT.	8	
STA. 16+12, 11' RT.	12	
STA. 16+17, 19' RT. (3 x 12")	36	
STA. 16+19, 21' RT.	8	
STA. 16+21, 25' RT. (3 x 8")	24	
STA. 16+29, 22' RT.	8	
STA. 16+35, 18' RT.	10	
STA. 17+57, 32' LT.	10	
STA. 17+86, 30' LT.	12	
STA. 20+48, 34' LT.	12	
STA. 20+79, 34' LT.	10	
<b>TOTALS</b>	<b>374</b>	<b>126</b>

PAVEMENT SCHEDULE						
LOCATION	AGGREGATE BASE COURSE, TYPE B (TON)	AGGREGATE SHOULDERS, TYPE B (6") (TON)	BITUMINOUS MATERIALS (PRIME COAT) (GALLON)	BITUMINOUS MATERIALS (C&S COATS) (GALLON)	COVER COAT AGGREGATE (TON)	SEAL COAT AGGREGATE (TON)
STA. 11+00 TO STA. 15+20	400		350	885	22	11
STA. 14+33 RT. TO STA. 15+33 RT.		25				
STA. 16+10 LT. TO STA. 17+10 LT.		25				
STA. 16+23 TO STA. 24+00	740		650	1635	40	20
<b>TOTALS</b>	<b>1140</b>	<b>50</b>	<b>1000</b>	<b>2520</b>	<b>62</b>	<b>31</b>

SEEDING AND EROSION CONTROL SCHEDULE				
LOCATION	SEEDING, CLASS 2 (SPECIAL) (ACRE)	TEMPORARY EROSION CONTROL SEEDING (3 APPLICATIONS) (POUND)	TEMPORARY DITCH CHECKS (FOOT)	PERIMETER EROSION BARRIER (FOOT)
STA. 11+00 LT. TO STA. 15+32 LT.	0.35	105		
STA. 11+00 RT. TO STA. 15+98 RT.	0.50	150		
STA. 11+33, LT. & RT.			20	
STA. 11+62, LT. & RT.			20	
STA. 11+91, LT. & RT.			20	
STA. 12+20, LT. & RT.			20	
STA. 12+25, 39' LT. TO STA. 13+50, 48' LT.				125
STA. 12+49, LT. & RT.			20	
STA. 12+78, LT. & RT.			20	
STA. 13+07, LT. & RT.			20	
STA. 13+36, LT. & RT.			20	
STA. 14+90, LT. & RT.			20	
STA. 15+01, 54' LT. TO STA. 15+33, 12' LT.				52
STA. 15+48, 12' RT. TO STA. 15+98, 50' RT.				63
STA. 15+55, 52' LT. TO STA. 15+89, 12' LT.				52
STA. 15+55 LT. TO STA. 24+00 LT.	0.60	180		
STA. 16+13, 12' RT. TO STA. 16+50, 48' RT.				52
STA. 16+13 RT. TO STA. 24+00 RT.	0.55	165		
STA. 17+34, LT.			10	
STA. 18+00, RT.			10	
STA. 20+67, LT.			10	
STA. 21+00, RT.			10	
STA. 21+00, 33' LT. TO STA. 22+00, 28' LT.				100
STA. 22+00, 29' RT. TO STA. 24+00, 18' RT.				200
<b>TOTALS</b>	<b>2.00</b>	<b>600</b>	<b>220</b>	<b>644</b>

GUARD RAIL AND TRAFFIC BARRIER TERMINAL SCHEDULE			
LOCATION	TRAFFIC BARRIER TERMINAL, TYPE SA (EACH)	TRAFFIC BARRIER TERMINAL, TYPE I, SPECIAL (TANGENT) (EACH)	TERMINAL MARKER - DIRECT APPLIED (EACH)
SW CORNER PROPOSED BRIDGE	1	1	1
NE CORNER PROPOSED BRIDGE	1	1	1
<b>TOTALS</b>	<b>2</b>	<b>2</b>	<b>2</b>

EARTHWORK SCHEDULE				
LOCATION	EARTH EXCAVATION (UNADJUSTED) (CUT) (CU YD)	EARTH EXCAVATION (ADJUSTED FOR 25% SHRINKAGE) (CU YD)	EMBANKMENT (FILL) (CU YD)	FURNISHED EXCAVATION (CU YD)
STA. 11+00 TO STA. 24+00	2194	1646	4841	3195
<b>TOTALS</b>	<b>2194</b>	<b>1646</b>	<b>4841</b>	<b>3195</b>

GREENE & BRADFORD, INC.  
1000 W. MONROE ST.  
CHICAGO, IL 60606  
TEL: (773) 399-1000  
WWW.GREENE-AND-BRADFORD.COM



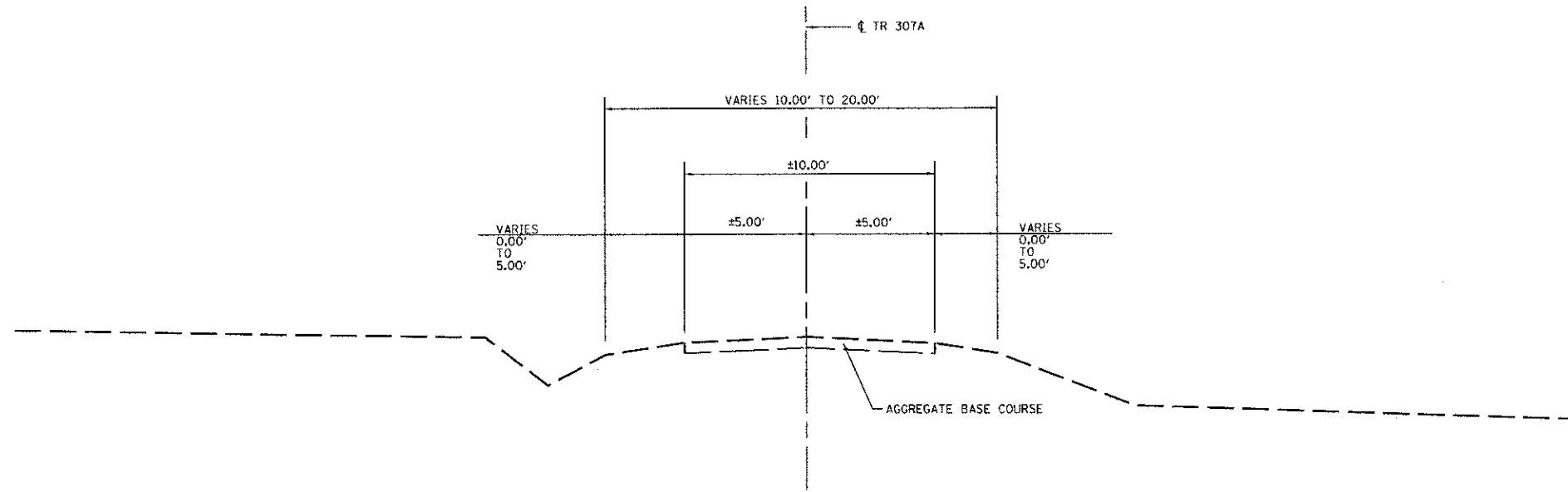
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G&B PROJECT: 09029	PLOT DRIVER = V81.PDF.plt	DATE - 6/29/09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TR 307A  
SCHEDULE OF QUANTITIES**

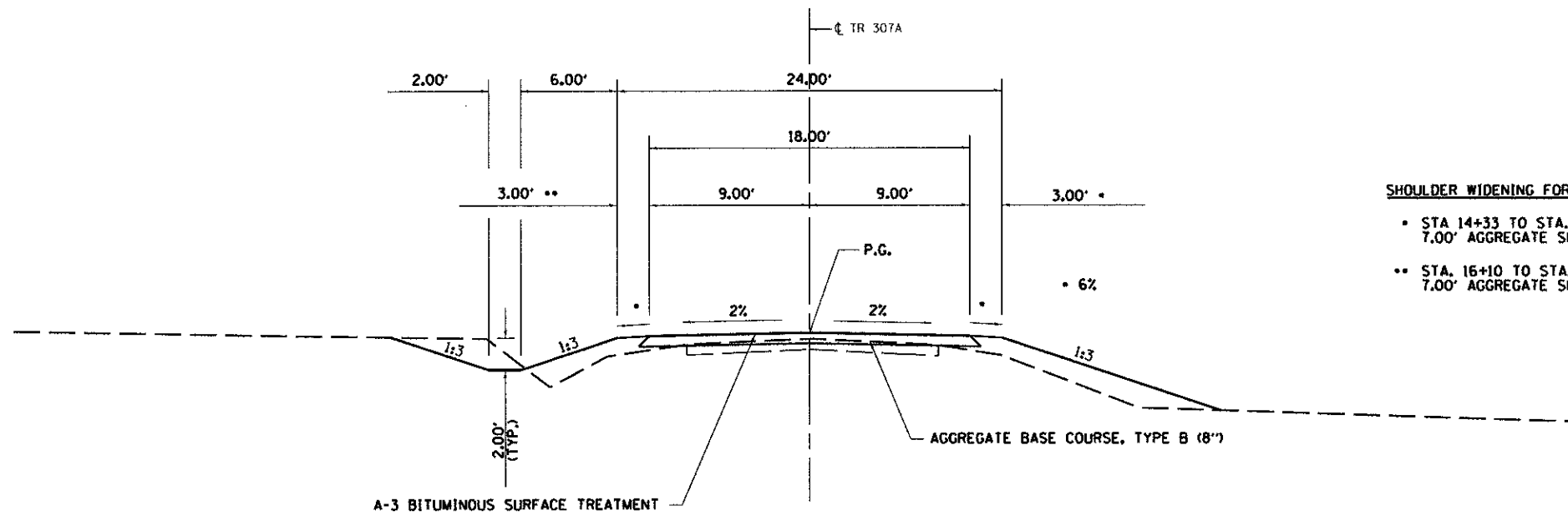
SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

T.R. RTE. 307A	SECTION 08-04118-00-BR	COUNTY CHRISTIAN	TOTAL SHEETS 26	SHEET NO. 3
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT BR05-0021(115)			CONTRACT NO. 03567	



**EXISTING TYPICAL ROADWAY SECTION**

STA. 11+00 TO STA. 24+00



**PROPOSED TYPICAL ROADWAY SECTION**

STA. 11+00 TO STA. 24+00  
(BRIDGE OMISSION : STA. 15+19.00 TO STA. 16+24.00)

**SHOULDER WIDENING FOR TRAFFIC BARRIER TERMINALS**

- STA 14+33 TO STA. 15+33  
7.00' AGGREGATE SHOULDERS, TYPE B (6")
- STA. 16+10 TO STA. 17+10  
7.00' AGGREGATE SHOULDERS, TYPE B (6")

GREEN & BALFOUR, INC.  
OF SPRINGFIELD  
CIVIL ENGINEERS AND ARCHITECTS  
1000 SOUTH BRIDGE STREET  
SPRINGFIELD, ILLINOIS 62761  
TEL: 217/223-8800 FAX: 217/223-8801  
WWW.GREENANDBALFOUR.COM



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	PLOT DATE = 5/3/2011	DATE - 05/01/09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TR 307A - TYPICAL SECTIONS**

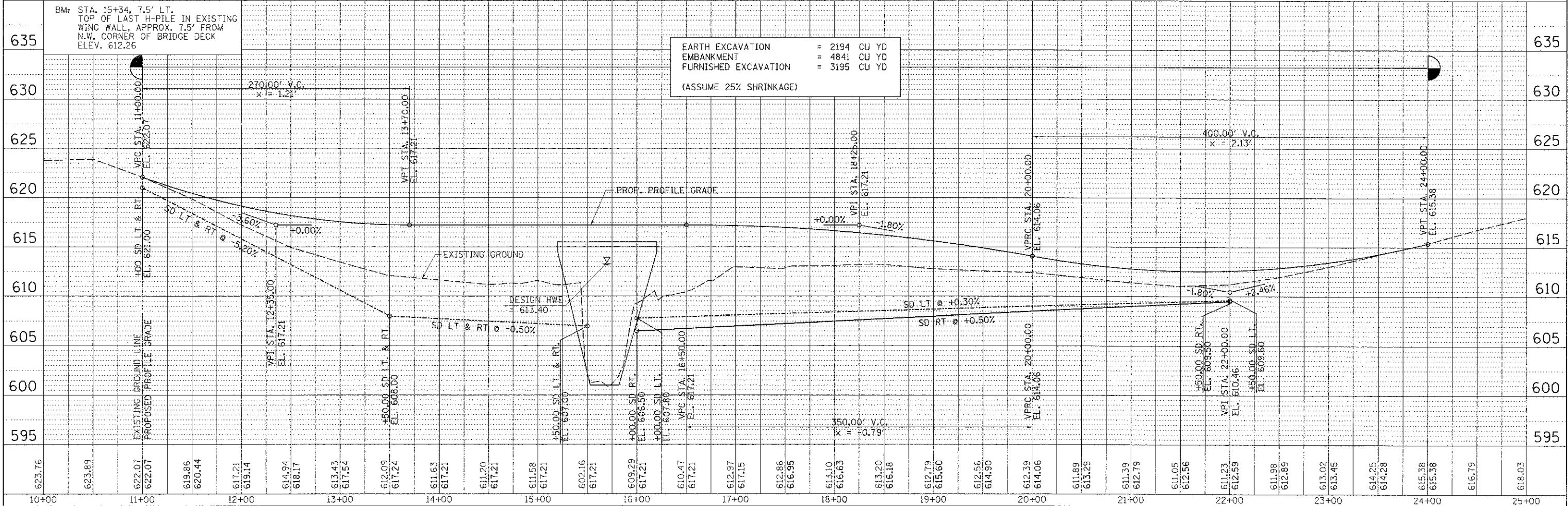
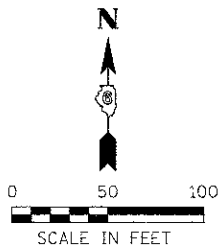
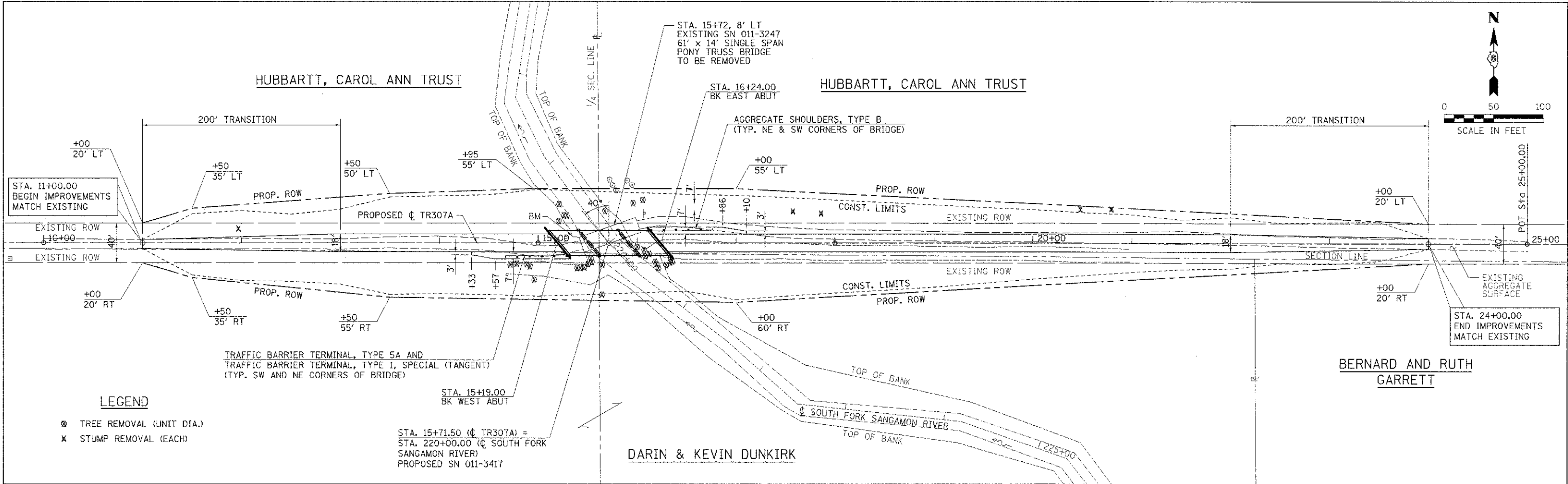
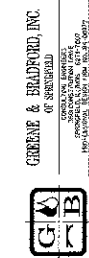
SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307A	08-04118-00-BR	CHRISTIAN	26	4
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT BR05-0021 (172)			CONTRACT NO. 09567	

PLOT DRIVER : V81.PDF.pltcf

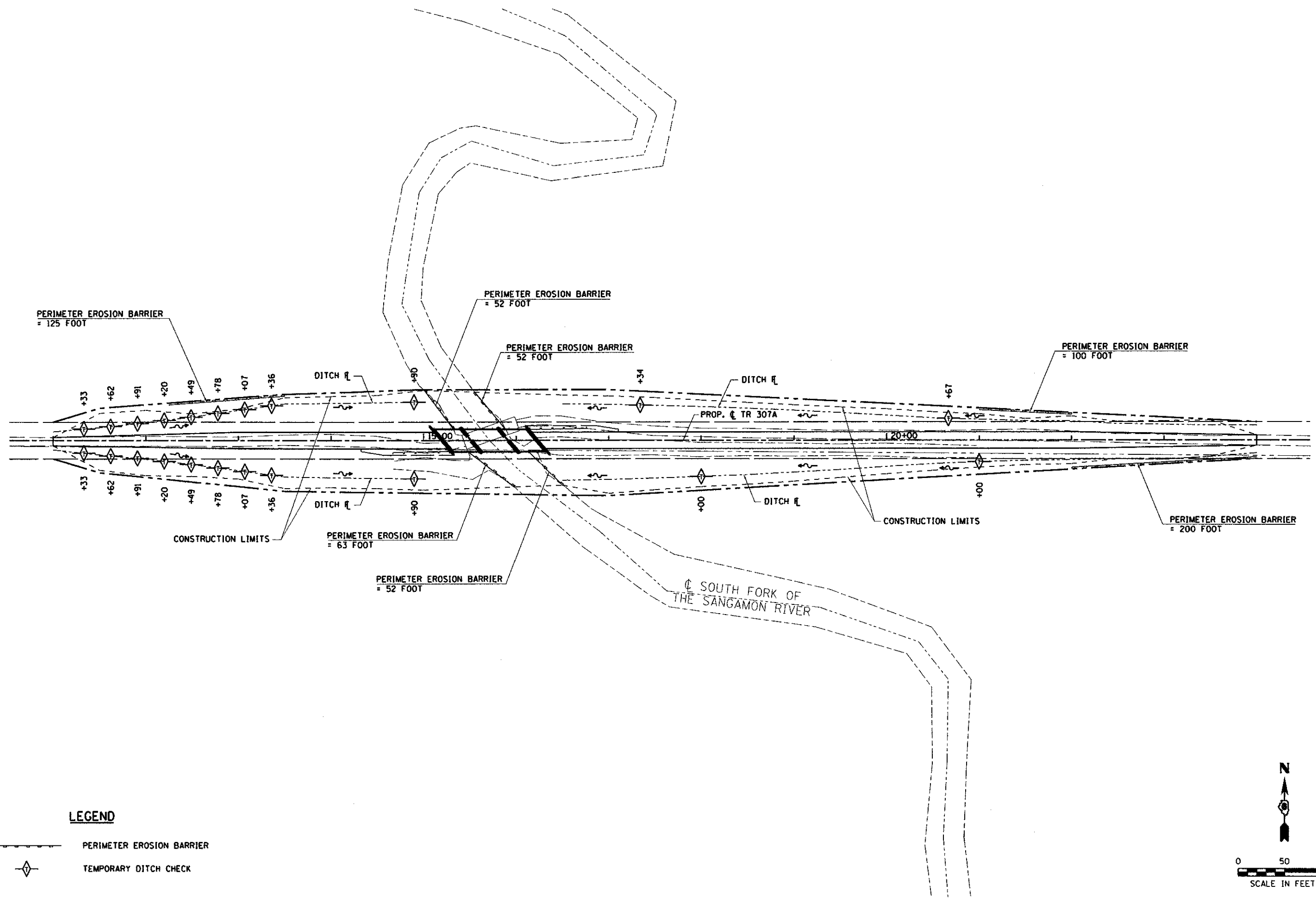
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BY	
PLAN	
NO.	
FILE NAME	

DATE	
BY	
PROFILE	
NO.	
FILE NAME	



EARTH EXCAVATION = 2194 CU YD  
 EMBANKMENT = 4841 CU YD  
 FURNISHED EXCAVATION = 3195 CU YD  
 (ASSUME 25% SHRINKAGE)

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PLOT SCALE = 50.0000 / 1 in.	CHECKED WCB	REVISED - AH 9/09/2011	307A			08-04118-00-BR	CHRISTIAN	26	5
PLOT DATE = 12/15/2011	DATE 5/01/09	REVISED -	CONTRACT NO. 090567						
SCALE: SHEET NO. 1 OF 1 SHEETS STA. 10+00 TO STA. 25+00						FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT BR05-0021 (178)	



**LEGEND**

-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECK

GREENE & BALDWIN, INC.  
 OF SPRINGFIELD  
 200 WEST WASHINGTON  
 SPRINGFIELD, ILLINOIS 62782-4000  
 TEL: 217/223-1111 FAX: 217/223-1112  
 WWW.GREENEANDBALDWIN.COM

FILE NAME = J:\09029\CADD\CAD\sheet\09029-eh-erosion	USER NAME = amandah	DESIGNED - WCB	REVISED -
PLOT SCALE = 100.0000' / 1" =	CHECKED - WCB	DATE - 6/29/09	REVISED -
PLOT DATE = 5/3/2011			

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TR 307A EROSION CONTROL PLAN</b>	
SCALE: 1" = 50'	SHEET NO. 1 OF 1 SHEETS
STA. 11+00	TO STA. 24+00

T.R. RTE. 307A	SECTION 08-04118-00-BR	COUNTY CHRISTIAN	TOTAL SHEETS 26	SHEET NO. 6
CONTRACT NO. 03567				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT BROS-0021 (175)				



# RIGHT OF WAY PLAT

## LEGAL DESCRIPTIONS

PARCEL 101

PART OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 9, TOWNSHIP 11 NORTH, RANGE 2 WEST OF THE THIRD PRINCIPAL MERIDIAN; DESCRIBED MORE PARTICULARLY AS FOLLOWS:

COMMENCING AT A STONE MARKING THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF THE AFOREMENTIONED SECTION 9, THENCE SOUTH 89 DEGREES 32 MINUTES 44 SECONDS EAST ALONG THE SECTION LINE A DISTANCE OF 864.11 FEET TO THE TRUE POINT OF BEGINNING, THENCE NORTH 00 DEGREES 00 MINUTES 49 SECONDS EAST 26.65 FEET, THENCE NORTH 73 DEGREES 18 MINUTES 52 SECONDS EAST 52.20 FEET, THENCE NORTH 85 DEGREES 43 MINUTES 28 SECONDS EAST 200.58 FEET, THENCE NORTH 88 DEGREES 02 MINUTES 20 SECONDS EAST 145.09 FEET, THENCE SOUTH 89 DEGREES 59 MINUTES 11 SECONDS EAST 66.18 FEET TO THE QUARTER SECTION LINE, THENCE SOUTH 00 DEGREES 23 MINUTES 16 SECONDS EAST ALONG THE QUARTER SECTION LINE 65.20 FEET TO THE SOUTH ONE QUARTER CORNER OF THE AFOREMENTIONED SECTION 9, THENCE NORTH 89 DEGREES 32 MINUTES 44 SECONDS WEST ALONG THE SOUTH LINE OF SECTION 9 A DISTANCE 461.65 FEET TO THE TRUE POINT OF BEGINNING.

SAID PARCEL 101 CONTAINS 0.5745 ACRES, MORE OR LESS OF WHICH 0.3012 ACRE IS WITHIN THE EXISTING RIGHT-OF-WAY OF TOWNSHIP ROAD, ALL IN THE COUNTY OF CHRISTIAN, STATE OF ILLINOIS.

PARCEL 102

PART OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 9, TOWNSHIP 11 NORTH, RANGE 2 WEST OF THE THIRD PRINCIPAL MERIDIAN; DESCRIBED MORE PARTICULARLY AS FOLLOWS:

COMMENCING AT A STONE MARKING THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF THE AFOREMENTIONED SECTION 9, THENCE SOUTH 89 DEGREES 32 MINUTES 44 SECONDS EAST ALONG THE SECTION LINE A DISTANCE OF 1,325.76 FEET TO THE SOUTH ONE QUARTER CORNER OF THE AFOREMENTIONED SECTION 9 BEING THE TRUE POINT OF BEGINNING, THENCE NORTH 00 DEGREES 23 MINUTES 16 SECONDS WEST ALONG THE WEST LINE OF THE SOUTHEAST QUARTER A DISTANCE OF 65.20 FEET, THENCE SOUTH 89 DEGREES 59 MINUTES 11 SECONDS EAST 138.82 FEET, THENCE SOUTH 87 DEGREES 07 MINUTES 26 SECONDS EAST 700.87 FEET, THENCE SOUTH 00 DEGREES 00 MINUTES 49 SECONDS WEST 36.65 FEET TO THE SOUTH LINE OF THE AFOREMENTIONED SECTION 9, THENCE NORTH 89 DEGREES 32 MINUTES 44 SECONDS WEST ALONG SAID SOUTH LINE A DISTANCE OF 838.39 FEET TO THE TRUE POINT OF BEGINNING.

SAID PARCEL 102 CONTAINS 1.0360 ACRES, MORE OR LESS OF WHICH 0.6430 ACRE IS WITHIN THE EXISTING RIGHT-OF-WAY OF TOWNSHIP ROAD, ALL IN THE COUNTY OF CHRISTIAN, STATE OF ILLINOIS.

PARCEL 103

PART OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER AND PART OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 16, TOWNSHIP 11 NORTH, RANGE 2 WEST OF THE THIRD PRINCIPAL MERIDIAN; DESCRIBED MORE PARTICULARLY AS FOLLOWS:

COMMENCING AT A STONE MARKING THE NORTHWEST CORNER OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE AFOREMENTIONED SECTION 16, THENCE SOUTH 89 DEGREES 32 MINUTES 44 SECONDS EAST ALONG THE SECTION LINE A DISTANCE OF 864.11 FEET TO THE TRUE POINT OF BEGINNING, THENCE CONTINUING SOUTH 89 DEGREES 32 MINUTES 44 SECONDS EAST ALONG THE NORTH LINE OF THE AFOREMENTIONED SECTION 16 A DISTANCE OF 1,124.53 FEET, THENCE SOUTH 00 DEGREES 23 MINUTES 16 SECONDS EAST 14.73 FEET, THENCE SOUTH 88 DEGREES 44 MINUTES 36 SECONDS WEST 525.45 FEET, THENCE NORTH 89 DEGREES 10 MINUTES 04 SECONDS WEST 350.04 FEET, THENCE NORTH 84 DEGREES 16 MINUTES 32 SECONDS WEST 201.00 FEET, THENCE NORTH 73 DEGREES 17 MINUTES 13 SECONDS WEST 52.20 FEET, THENCE NORTH 00 DEGREES 00 MINUTES 49 SECONDS EAST 13.35 FEET TO THE TRUE POINT OF BEGINNING.

SAID PARCEL 103 CONTAINS 0.9590 ACRES, MORE OR LESS OF WHICH 0.2320 ACRE IS WITHIN THE EXISTING RIGHT-OF-WAY OF TOWNSHIP ROAD, ALL IN THE COUNTY OF CHRISTIAN, STATE OF ILLINOIS.

PARCEL 104

PART OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 16, TOWNSHIP 11 NORTH, RANGE 2 WEST OF THE THIRD PRINCIPAL MERIDIAN; DESCRIBED MORE PARTICULARLY AS FOLLOWS:

COMMENCING AT A STONE MARKING THE NORTHWEST CORNER OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE AFOREMENTIONED SECTION 16, THENCE SOUTH 89 DEGREES 32 MINUTES 44 SECONDS EAST ALONG THE SECTION LINE A DISTANCE OF 1,988.64 FEET TO THE TRUE POINT OF BEGINNING, THENCE CONTINUING SOUTH 89 DEGREES 32 MINUTES 44 SECONDS EAST ALONG THE NORTH LINE OF THE AFOREMENTIONED SECTION 16 A DISTANCE OF 175.51 FEET, THENCE SOUTH 00 DEGREES 00 MINUTES 49 SECONDS WEST 3.35 FEET, THENCE SOUTH 86 DEGREES 44 MINUTES 36 SECONDS WEST 175.69 FEET, THENCE NORTH 00 DEGREES 23 MINUTES 16 SECONDS WEST 14.73 FEET TO THE TRUE POINT OF BEGINNING.

SAID PARCEL 104 CONTAINS 0.0364 ACRES, MORE OR LESS OF WHICH 0.0170 ACRE IS WITHIN THE EXISTING RIGHT-OF-WAY OF TOWNSHIP ROAD, ALL IN THE COUNTY OF CHRISTIAN, STATE OF ILLINOIS.

**CERTIFICATION OF SURVEY**

I, RICHARD TONELLATO, HEREBY STATE THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS; THAT THE SURVEY OF TOWNSHIP ROAD TR 307A WAS MADE BY ME OR UNDER MY DIRECT SUPERVISION; AND THAT THE PLAT HEREON IS IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE LAND ACQUISITION AND POLICIES AND PROCEDURES MANUAL, OF THE DEPARTMENT'S DISTRICT POLICIES.

DATE: \_\_\_\_\_ BY: \_\_\_\_\_

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-002590



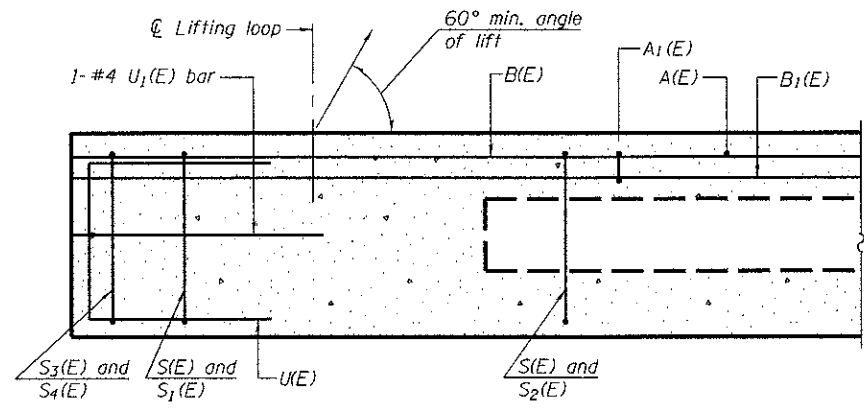
EXPIRES: 11/30/2012  
GREENE & BRADFORD, INC.

GREENE & BRADFORD, INC.  
SURVEYORS & ENGINEERS  
1000 N. WASHINGTON ST., SUITE 100  
SPRINGFIELD, ILLINOIS 62761  
TEL: 217-223-8800  
FAX: 217-223-8801  
WWW.GRENEANDBRADFORD.COM

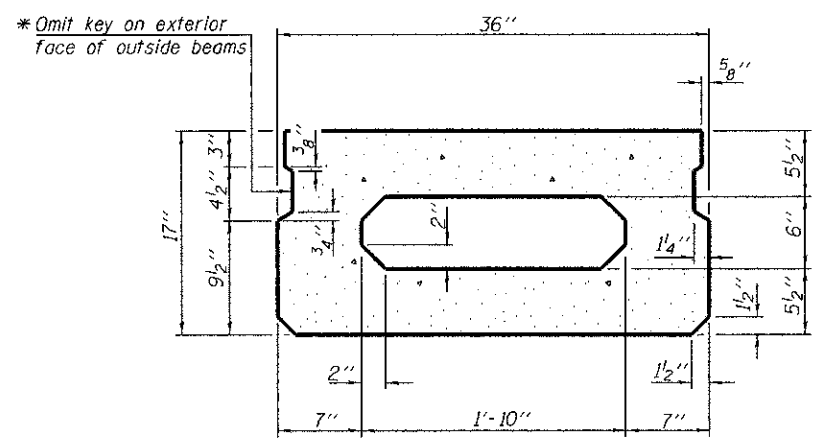
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PLOT SCALE = 100.0000' / 1" = 50'						SHEET NO. 2 OF 2 SHEETS STA. _____ TO STA. _____		CONTRACT NO. 09029				
PLOT DATE = 5/3/2011						DATE = 9/17/09		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT BR05-0021 (178)				
G&B PROJECT: 09029						PLOT DRIVER = VB1.PDF.pltcf						



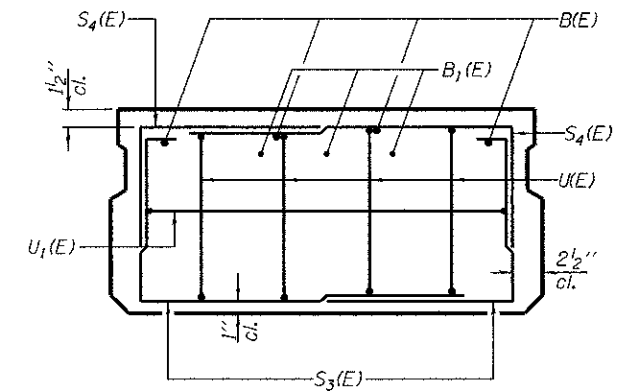




**SECTION A-A**

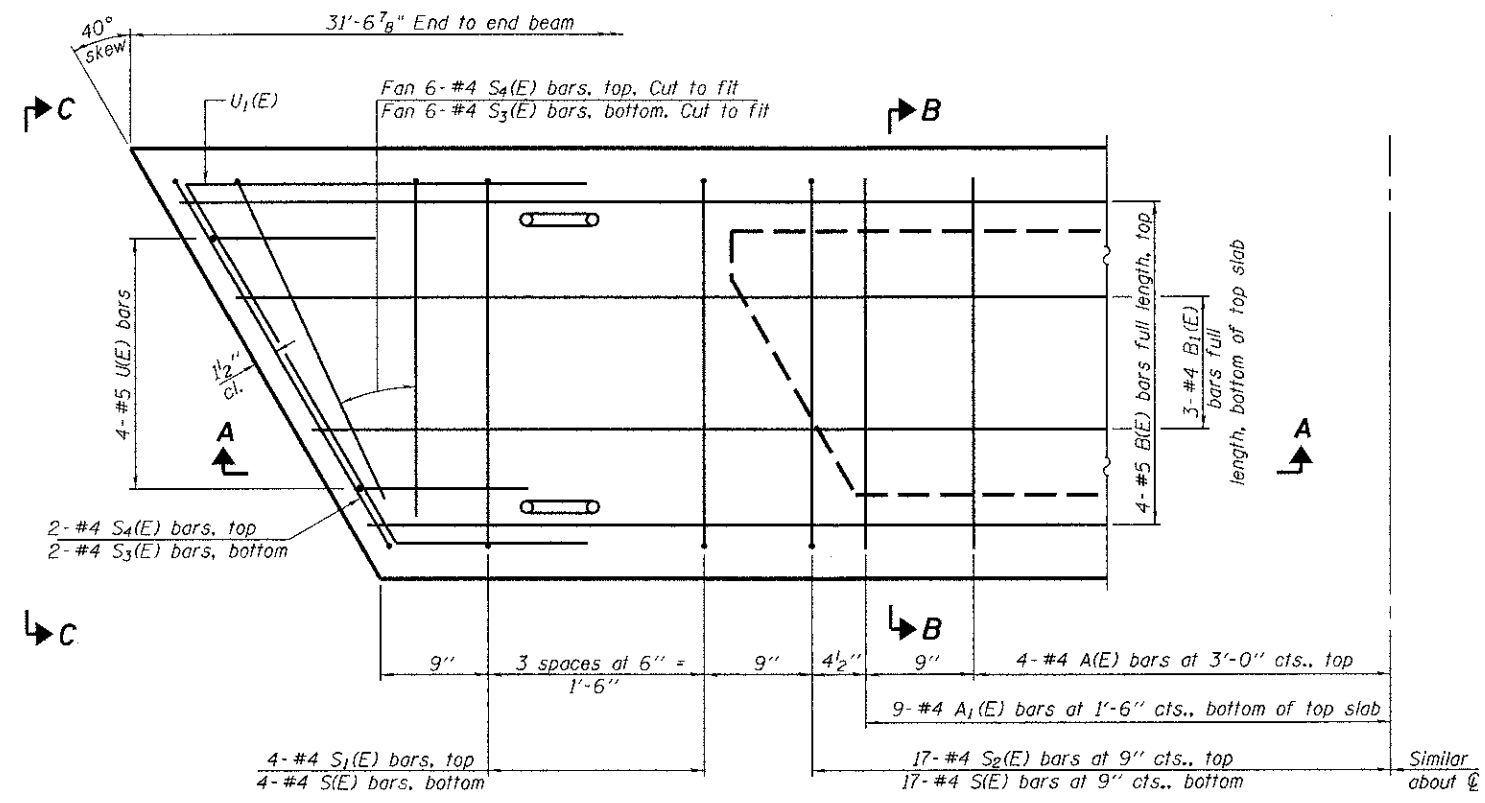


**SECTION B-B**  
(Showing dimensions)



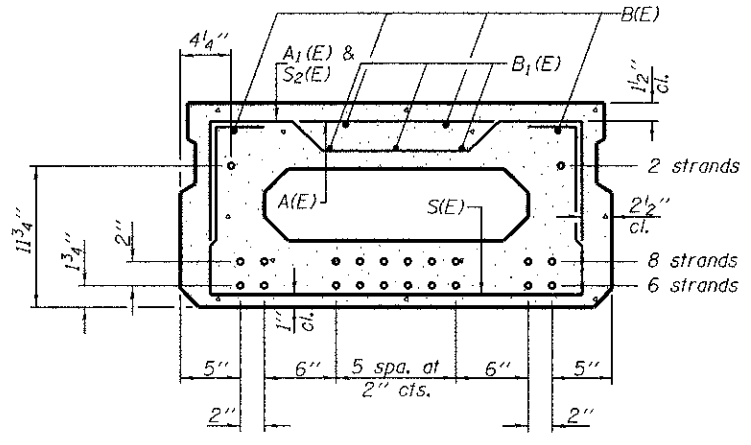
**VIEW C-C**

\* Rail Post Anchor Devices Shall be Cast into Exterior Face of Outside Beams.



**PLAN VIEW**

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.



**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)	8	#4	2'-7"	—
A1(E)	18	#4	2'-10"	—
B(E)	4	#5	31'-3"	—
B1(E)	3	#4	31'-3"	—
S(E)	42	#4	5'-9"	—
S1(E)	8	#4	4'-3"	—
S2(E)	34	#4	4'-6"	—
S3(E)	16	#4	4'-11"	—
S4(E)	16	#4	4'-2"	—
U(E)	8	#5	3'-8"	—
U1(E)	2	#4	7'-10"	—

Note: See sheet 4 of 10 for additional details and Bill of Material.

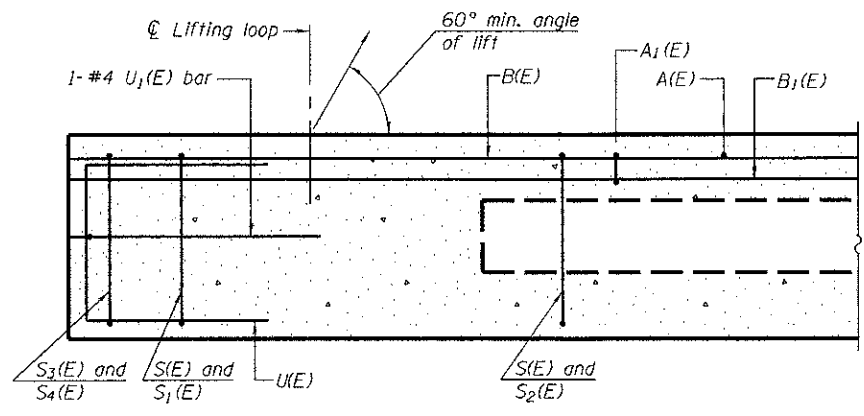
**MINIMUM BAR LAP**

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



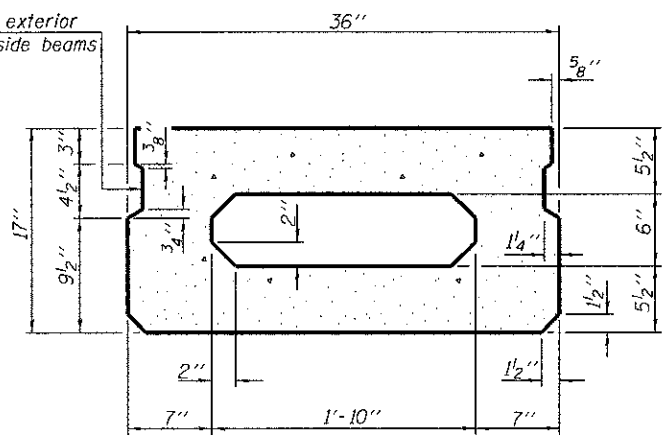
PD-1736-R 7-1-10

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PLOT SCALE = 0.2,0000 1" = 10'	PLOT DATE = 5/3/2011	CHECKED - TRELLO	REVISED -			JOTA	08-04118-00-BR	CHRISTIAN	26	10	
		DRAWN - VERENSKI	REVISED -			<b>CONTRACT NO. 3 5 6 7</b>					
		CHECKED - TRELLO	REVISED -			SHEET NO. 2 OF 10 SHEETS					

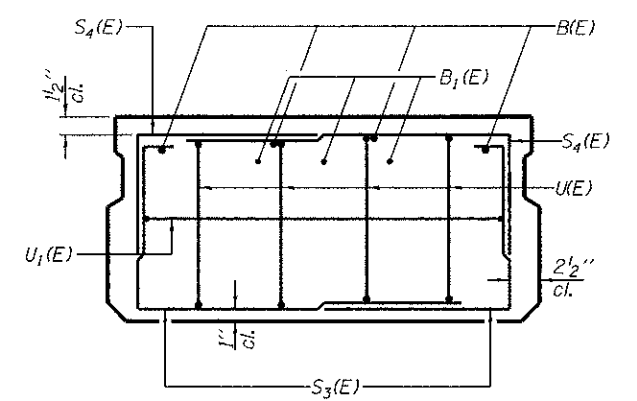


**SECTION A-A**

\* Omit key on exterior face of outside beams

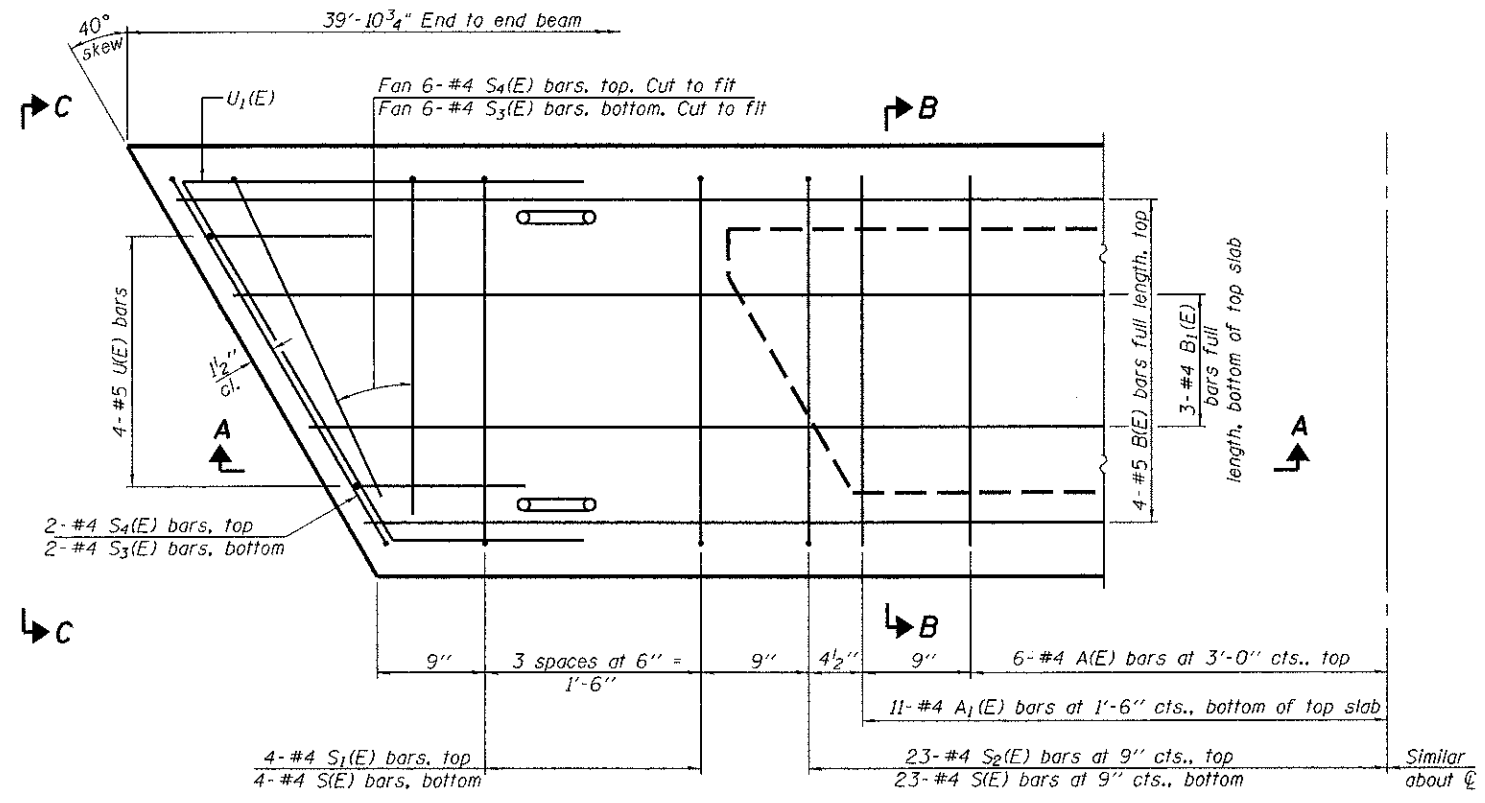


**SECTION B-B**  
(Showing dimensions)

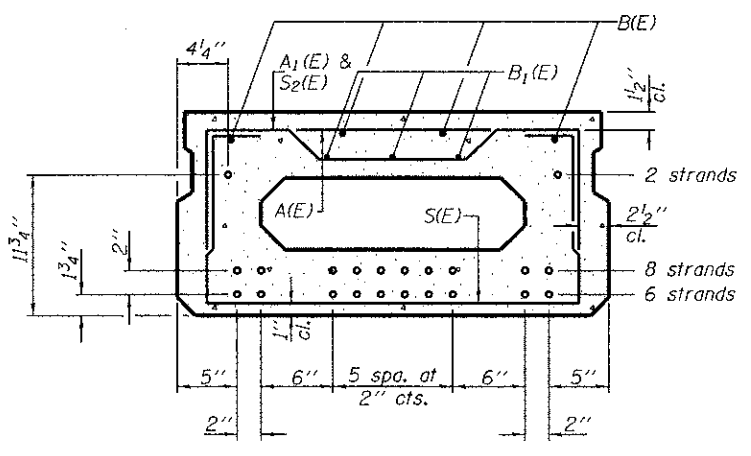


**VIEW C-C**

\* Rail Post Anchor Devices Shall be Cast into Exterior Face of Outside Beams.



**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)	12	#4	2'-7"	
A1(E)	22	#4	2'-10"	
B(E)	4	#5	39'-6"	
B1(E)	3	#4	39'-6"	
S(E)	54	#4	5'-9"	
S1(E)	8	#4	4'-3"	
S2(E)	46	#4	4'-6"	
S3(E)	16	#4	4'-11"	
S4(E)	16	#4	4'-2"	
UK(E)	8	#5	3'-8"	
U1(E)	2	#4	7'-10"	

Note: See sheet 4 of 10 for additional details and Bill of Material.

**MINIMUM BAR LAP**  
#4 bar = 2'-0"  
#5 bar = 2'-6"

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.



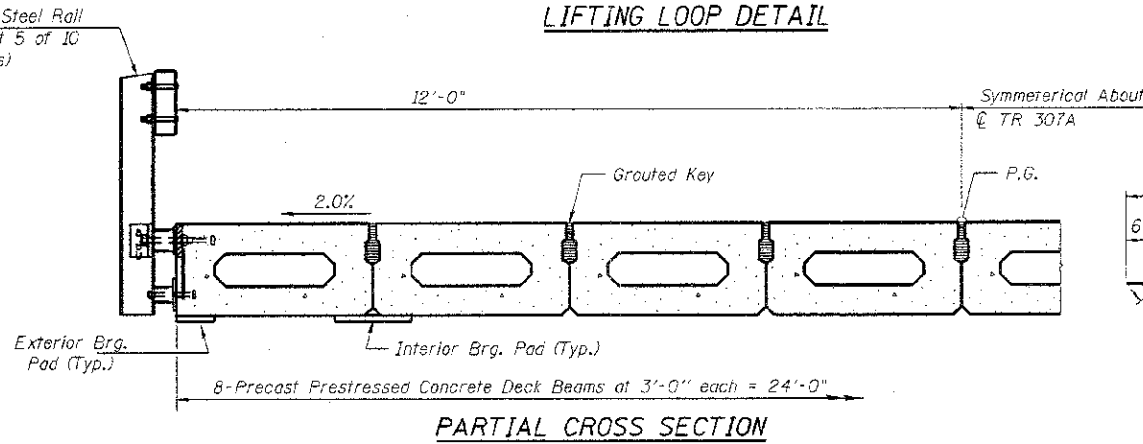
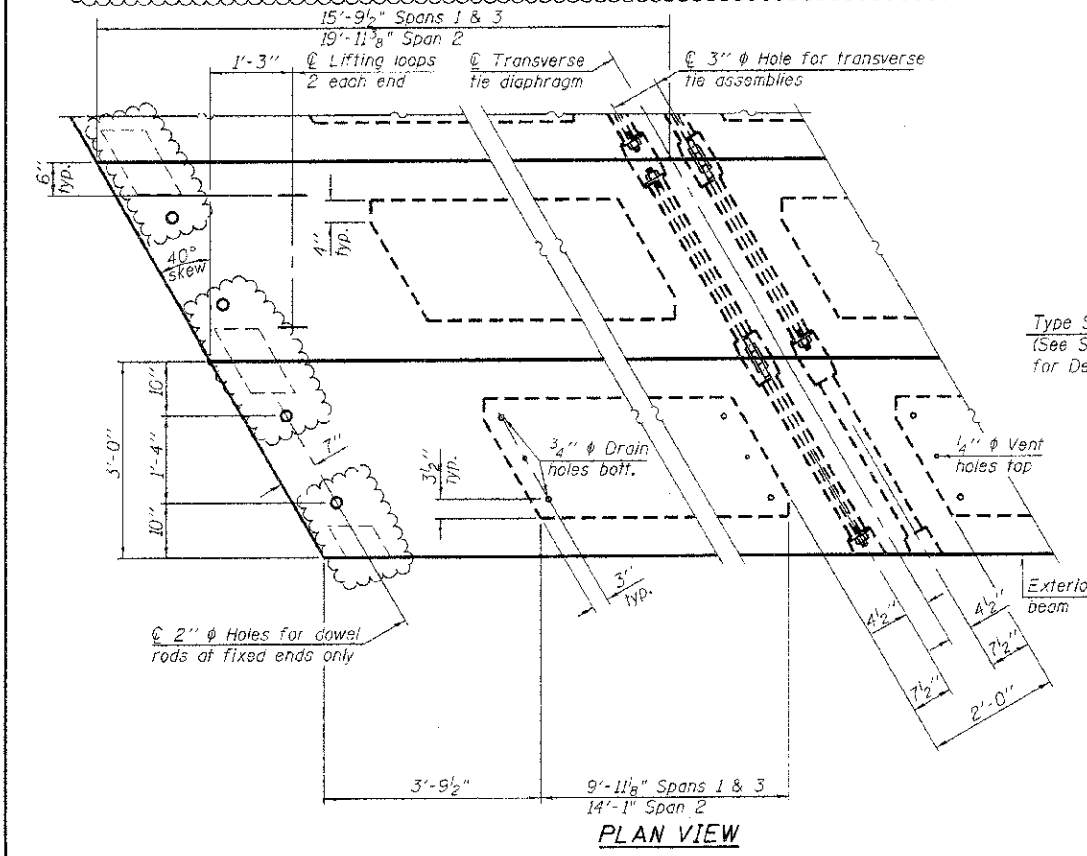
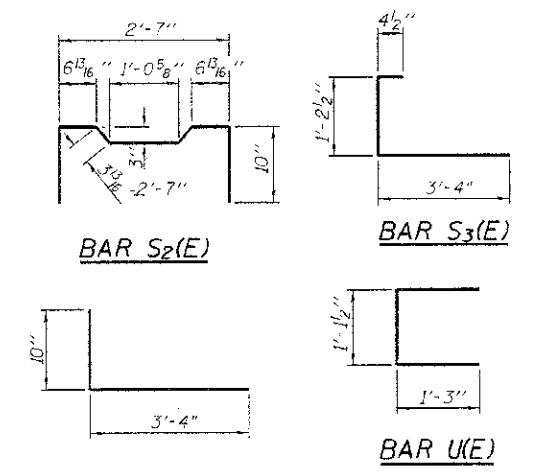
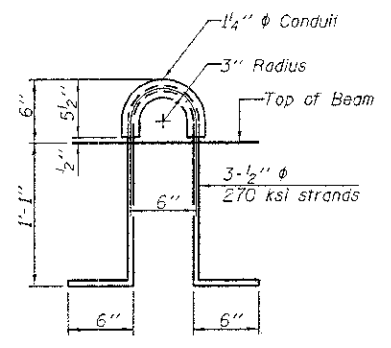
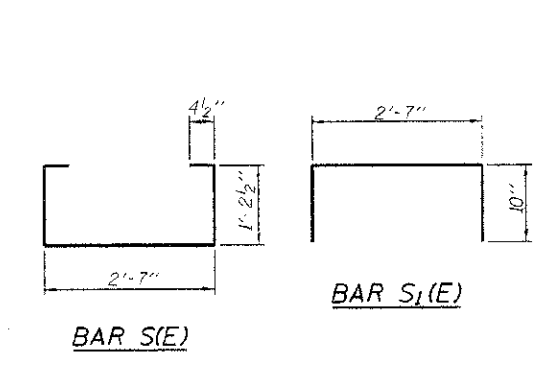
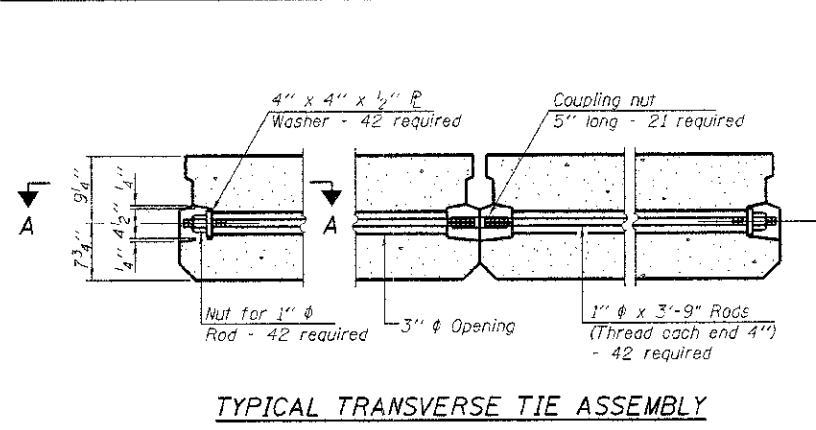
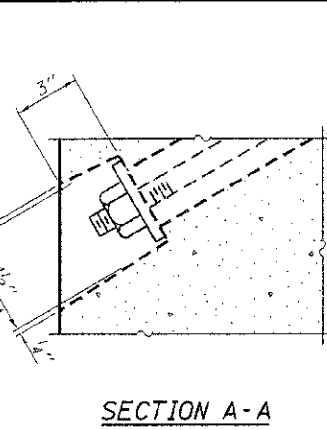
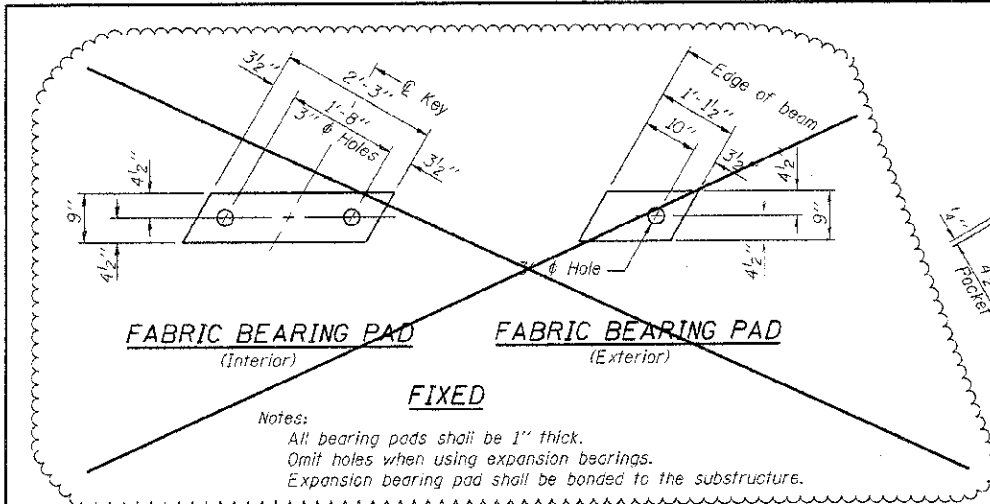
PD-1736-R 7-1-10

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PLOT SCALE = 0.2, 0.000 1" = 10'	PLOT DATE = 5/3/2011	CHECKED - TRELLO	REVISED -
		DRAWN - VERENSKI	REVISED -
		CHECKED - TRELLO	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**17" x 36" PPC DECK BEAM SPAN 2**  
**STRUCTURE NO. 011-3417**  
SHEET NO. 3 OF 10 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307A	06-04118-00-BR	CHRISTIAN	26	11
CONTRACT NO. 93567			ILLINOIS FED. AID PROJECT: BR05-0021 (178)	



**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.

Reinforcement bars shall conform to ASTM A 706, Grade 60.

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" lifting pin shall be used to engage the lifting loops during handling.

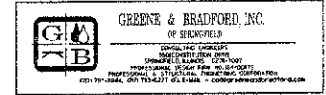
Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

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. (17" depth)	Sq. Ft.	2473
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PD-1736-RD 7-1-10

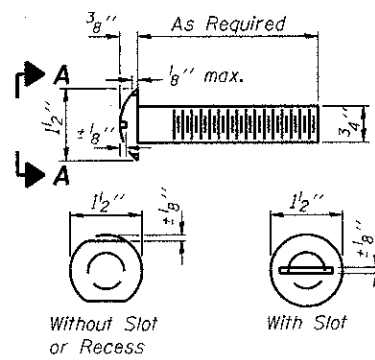
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USER NAME: amander	CHECKED - TRELLO	REVISIONS -
PLT SCALE: #0.6, 1/7 ft/fL / in.	DRAWN - VERENSKI	REVISIONS -
PLT DATE: #4/18/2012	CHECKED - TRELLO	REVISIONS -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

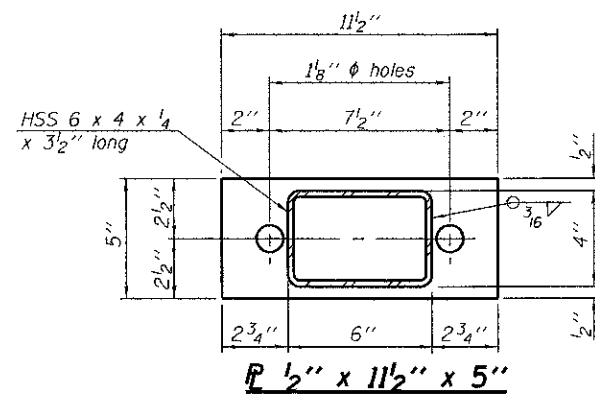
17" x 36" PPC DECK BEAM DETAILS  
 STRUCTURE NO. 011-3417

T.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 93507				
[ILLINOIS] FED. AID PROJECT: BR05-0021 (162)				

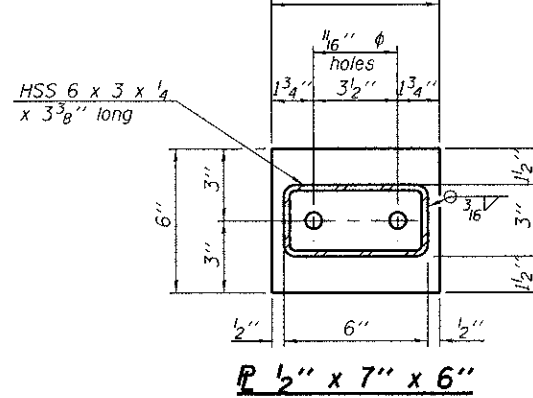
PLT DRIVER: #PLDTTFR#



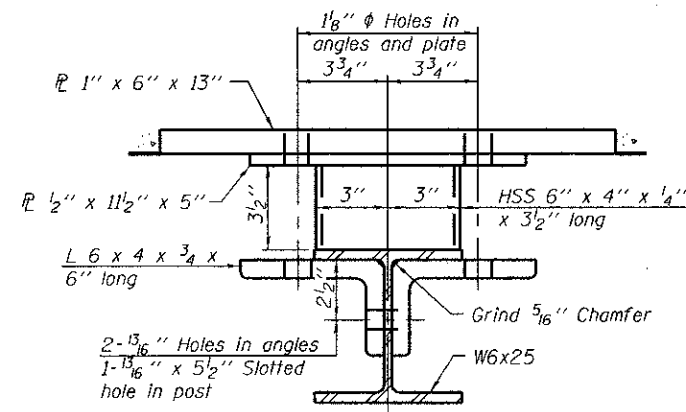
**VIEW A-A  
ROUND HEAD BOLT**



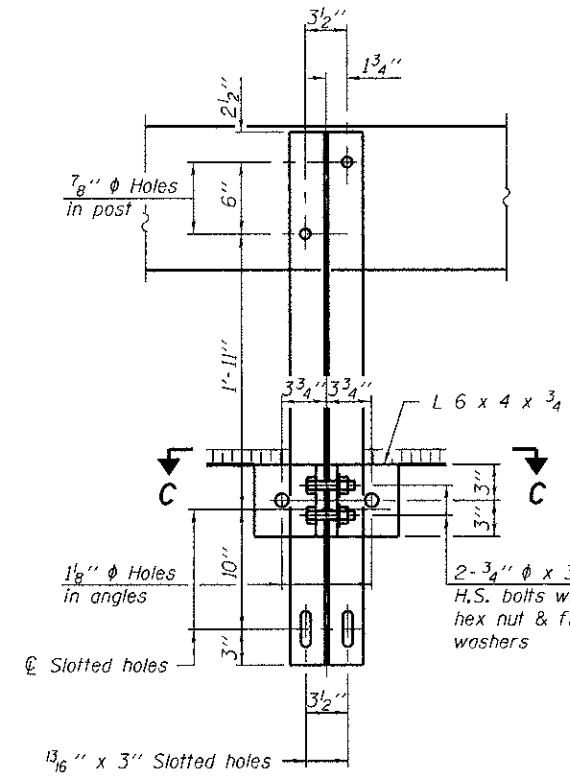
**SECTION B-B  
P 1/2" x 11 1/2" x 5"**



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

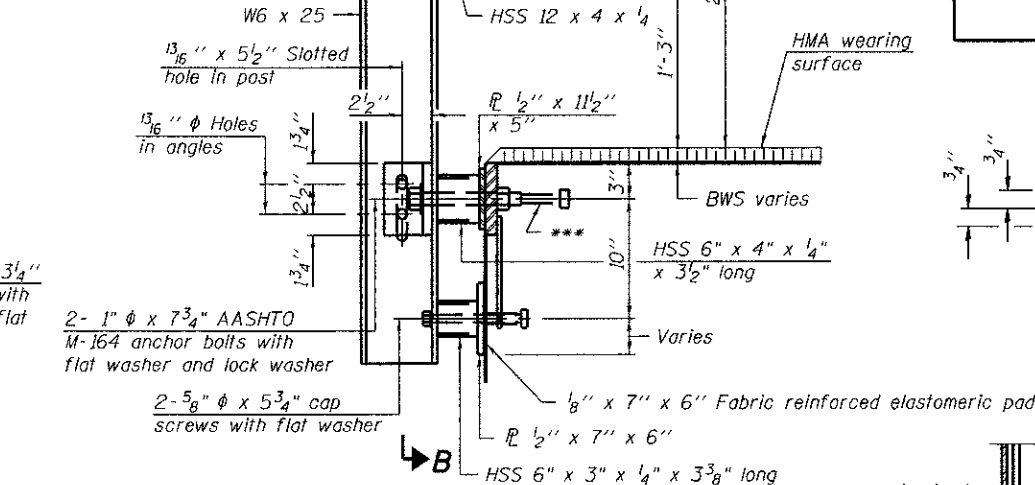


**SECTION C-C**

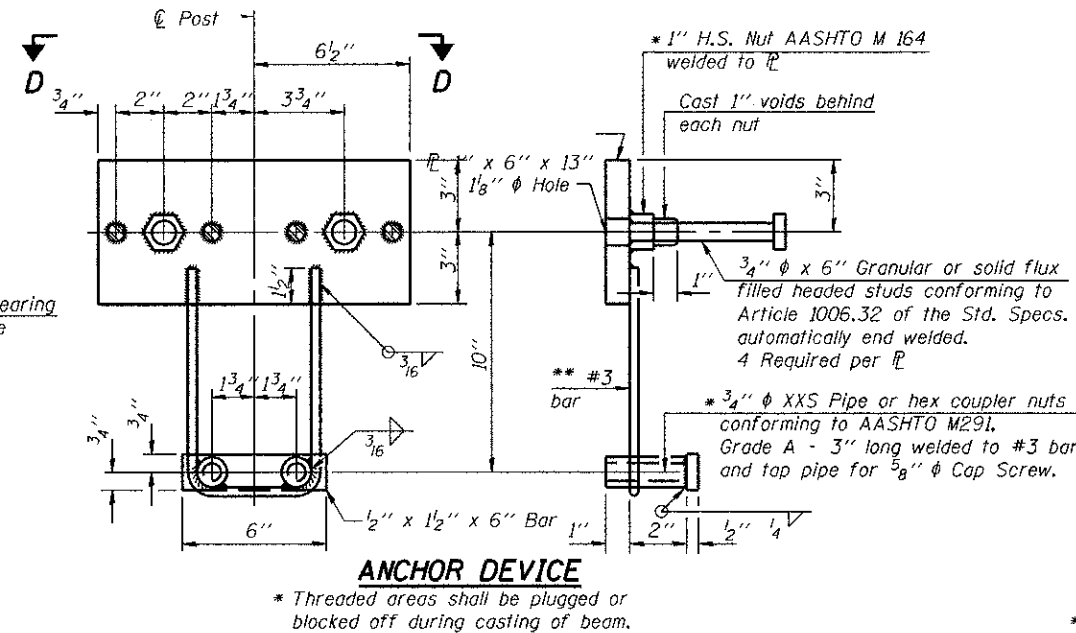


**SECTION B-B**

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



**SECTION AT RAILING POST**



**ANCHOR DEVICE**

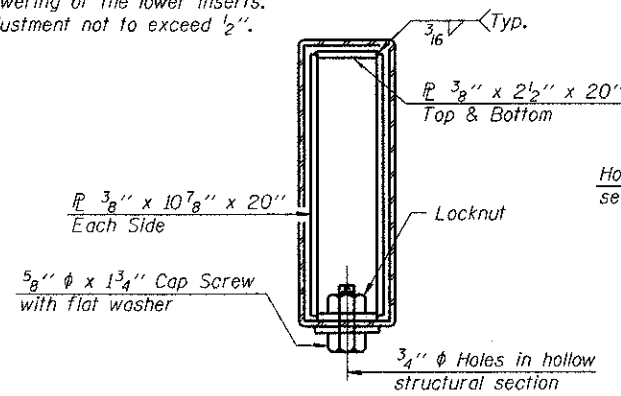
\* Threaded areas shall be plugged or blocked off during casting of beam.

**Notes:**

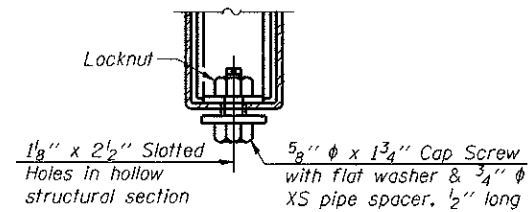
All field drilled holes shall be coated with an approved zinc rich paint before erection. For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cast included with Steel Railing, Type S-1. All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

\*\*\* The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

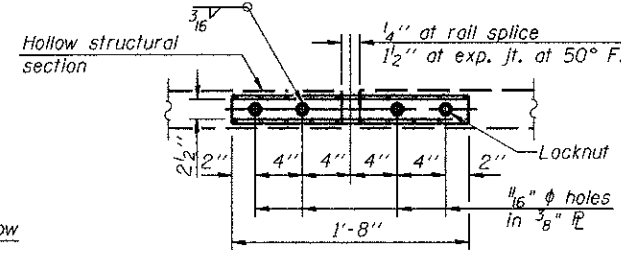
\*\* Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".



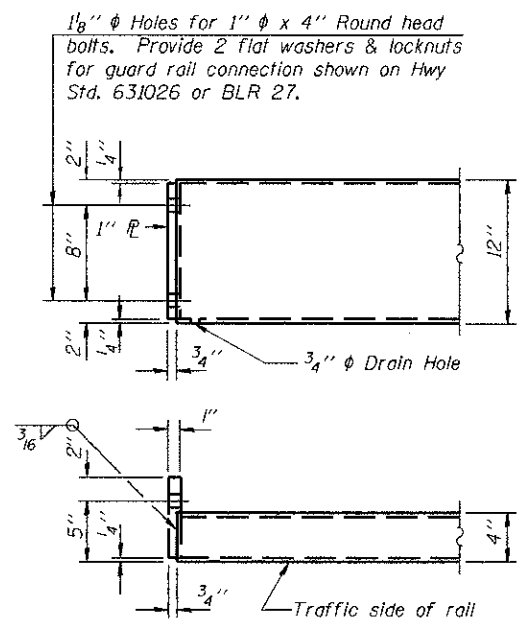
**SECTIONS AT RAIL SPLICE**



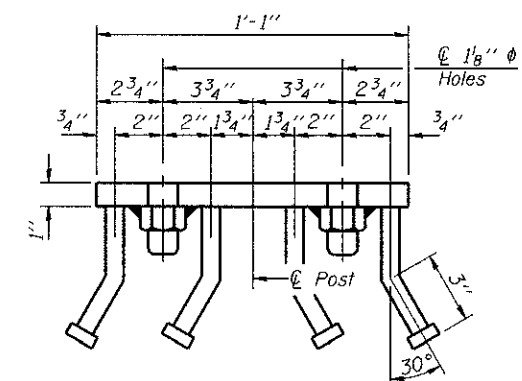
**RAIL SPLICE CONNECTION  
AT EXPANSION JT.**



**PLAN-BOTT. SPLICE P  
TYPICAL**



**END OF RAIL DETAILS**



**VIEW D-D**

**BILL OF MATERIAL**

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	210

**GREENE & BRADFORD, INC.**  
OF SPRINGFIELD  
CONSULTING ENGINEERS  
PROFESSIONAL & TECHNICAL SERVICES  
1101 W. STATE ST., SUITE 100  
SPRINGFIELD, ILL. 62760  
TEL: 217-223-1111 FAX: 217-223-1112

R-23A 7-1-10 (10'-9" Maximum Post Spacing)

FILE NAME	USER NAME	DESIGNED	REVISION
J:\09029\CADD\CAD\Sheet\SN 011-3417\0904118-09029-Sht-S1 Railing.dgn	amandph	NIEWINSKI	AH 4/20/11
		TRELLO	
		VERENSKI	
		TRELLO	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

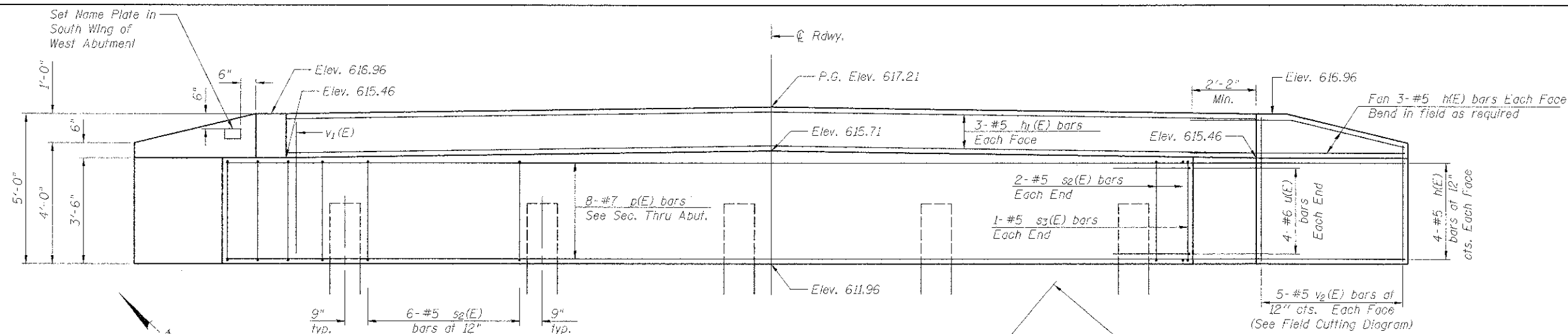
**STEEL RAILING, TYPE S-1  
STRUCTURE NO. 011-3417**  
SHEET NO. 5 OF 10 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307A	08-04118-00-BR	CHRISTIAN	26	13
				CONTRACT NO. 93567
ILLINOIS FED. AID PROJECT: BR05-0021 (17B)				

**TWO ABUTMENTS  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
$h_1(E)$	56	#5	7'-3"	—
$h_2(E)$	12	#5	31'-8"	—
$p(E)$	16	#7	31'-8"	—
$s_2(E)$	56	#5	11'-7"	□
$s_3(E)$	4	#5	12'-11"	□
$u(E)$	16	#6	7'-7"	└
$v_1(E)$	132	#5	4'-4"	—
$v_2(E)$	20	#5	8'-4"	—
Structure Excavation		Cu. Yd.	28.0	
Concrete Structures		Cu. Yd.	26.8	
Reinforcement Bars, Epoxy Coated		Pound	3,540	
Furnishing				
Metal Shell Piles		Foot	290	
Driving Piles		Foot	290	
Test Pile, Metal Shell		Each	1	
Name Plates		Each	1	

For details of piles see sheet 8 of 10.

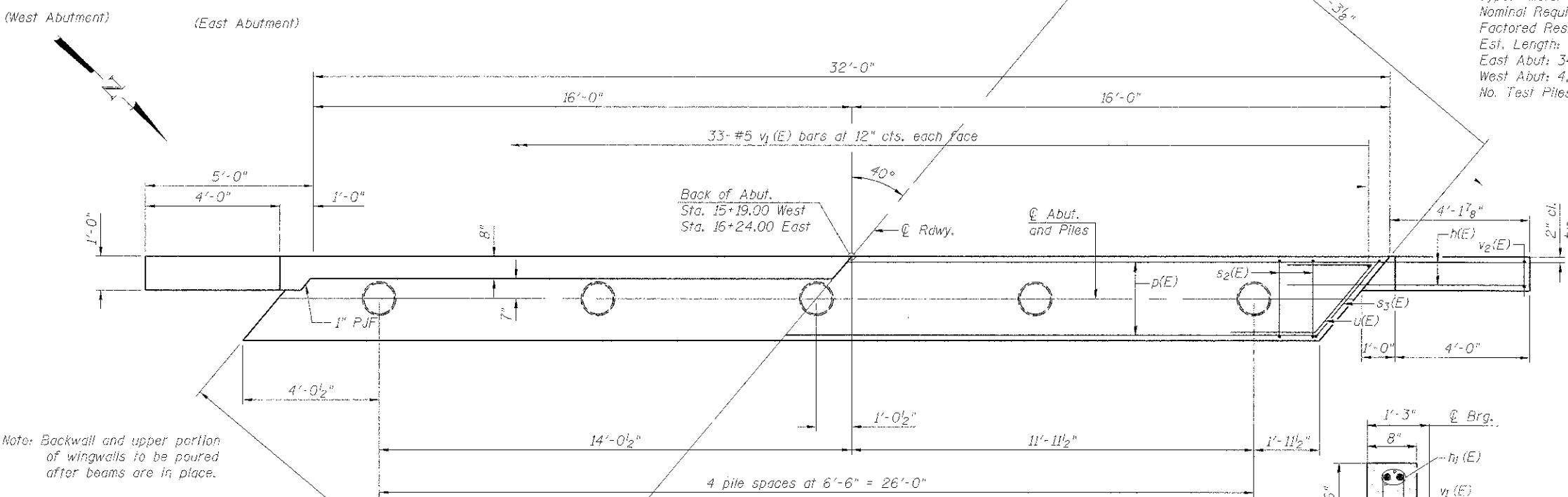


**ELEVATION**

(Looking @ front face of Abutment)

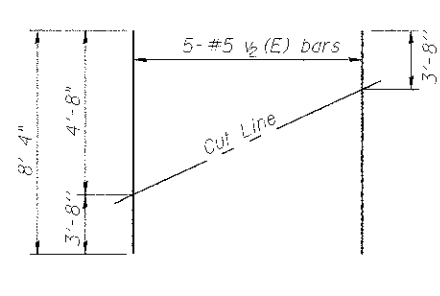
**PILE DATA**

Type: Metal Shells, 12"  $\phi$  x 0.25" wall  
 Nominal Required Bearing: 165 Kips  
 Factored Resistance Available: 91 Kips  
 Est. Length: West Abut: 30', East Abut: 34' No. Production Piles:  
 West Abut: 4, East Abut: 5  
 No. Test Piles: 1 (West Abut.)



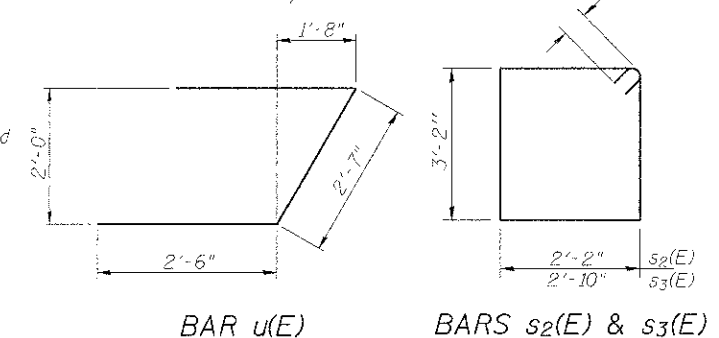
**PLAN**

Note: Backwall and upper portion of wingwalls to be poured after beams are in place.



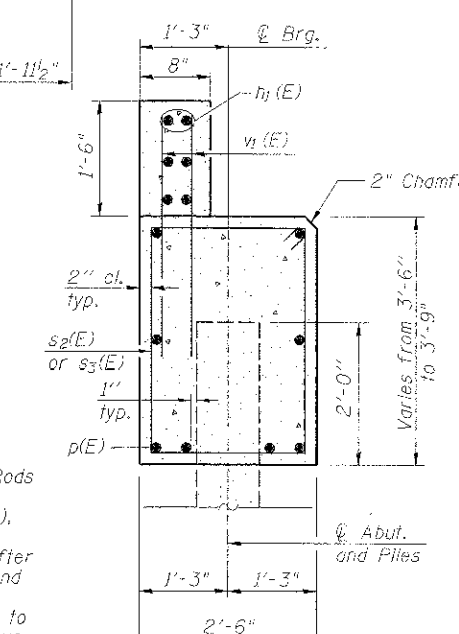
**FIELD CUTTING DIAGRAM**

Order  $v_2(E)$  full length. Cut as shown and use remainder of bars in opposite face.

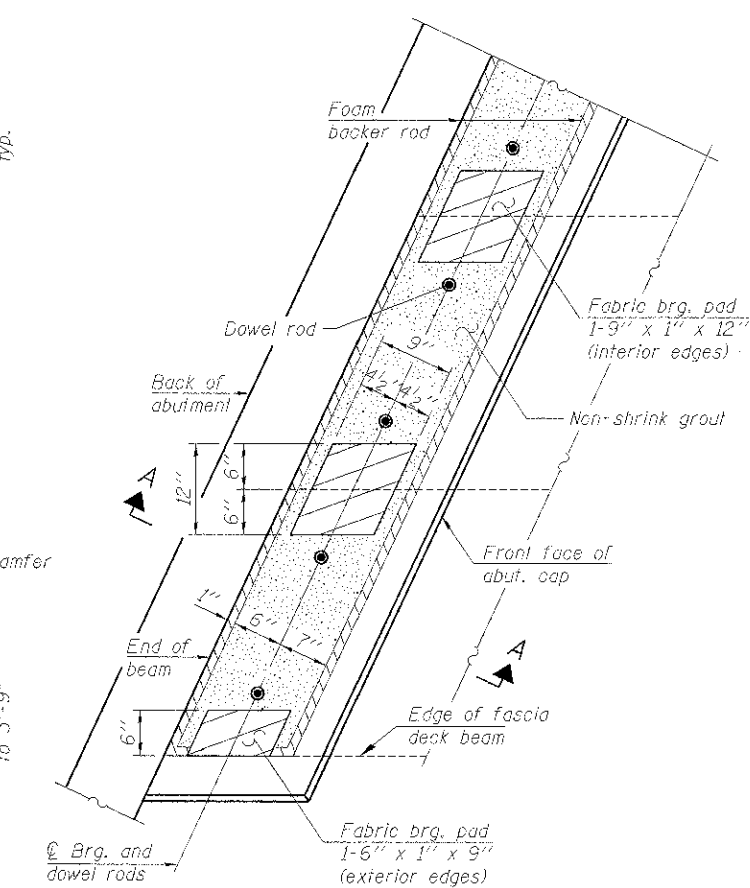


**TYP. SEC. AT BEARINGS**

Note: All horizontal dimensions are at right angles to beam ends.



**SEC. THRU ABUT.**



**PLAN**

Notes:  
 The bearing seat surfaces shall be adjusted by shimming the bearing to assure firm and even bearing prior to placement of grout. 2-1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shown shall be provided for each bearing.



AI-R 7-1-10

FILE NAME	USER NAME	DESIGNED	REVISED
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		TRELLO	AH 9/09/11
		VERENSKI	
		TRELLO	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ABUTMENTS  
STRUCTURE NO. 011-3417**

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301A	08-0411B-00-BR	CHRISTIAN	26	14

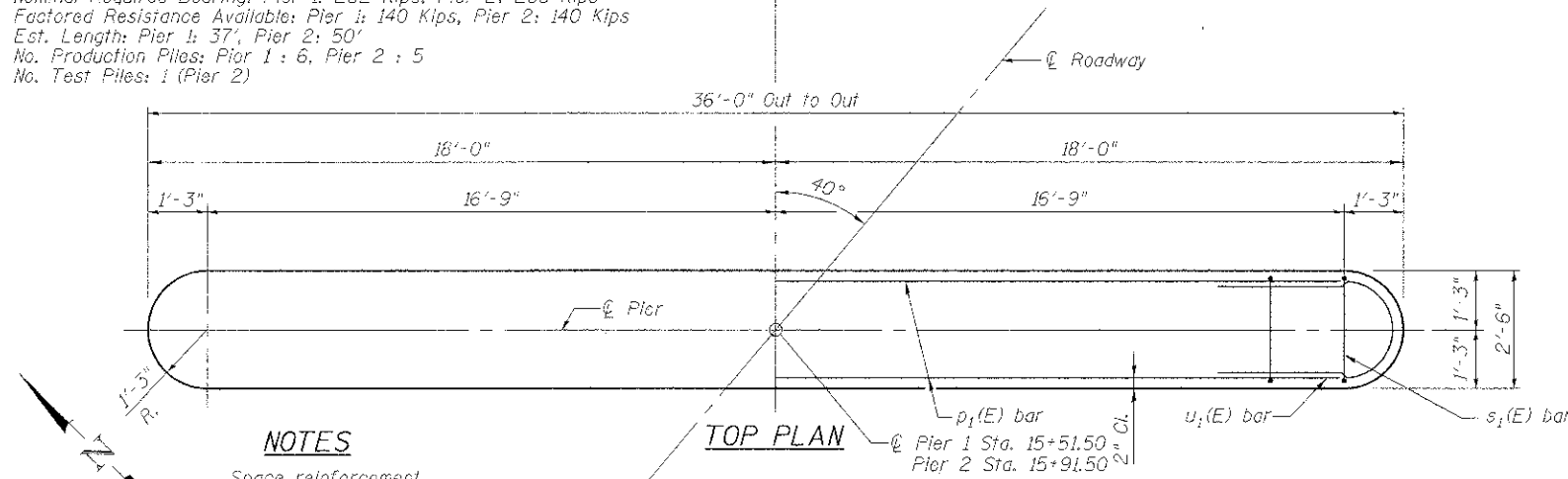
SHEET NO. 6 OF 10 SHEETS

ILLINOIS FED. AID PROJECT: BROS-0021 (1/06)

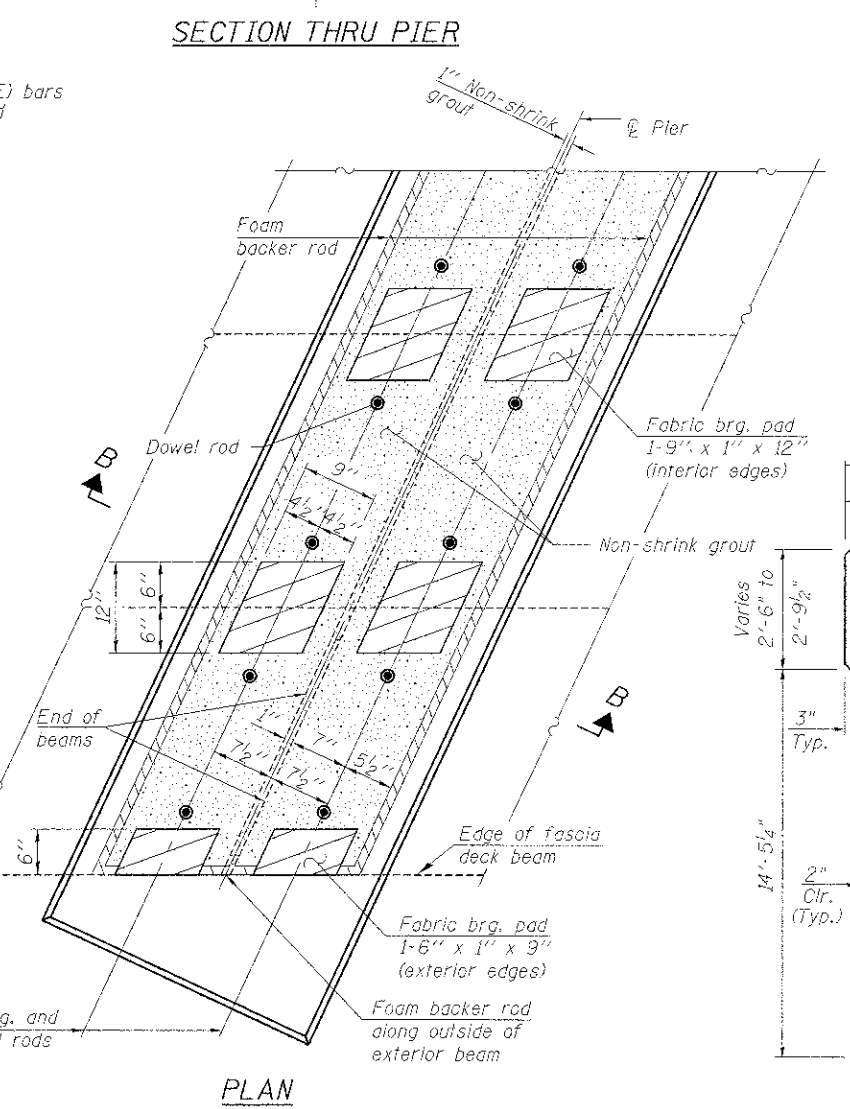
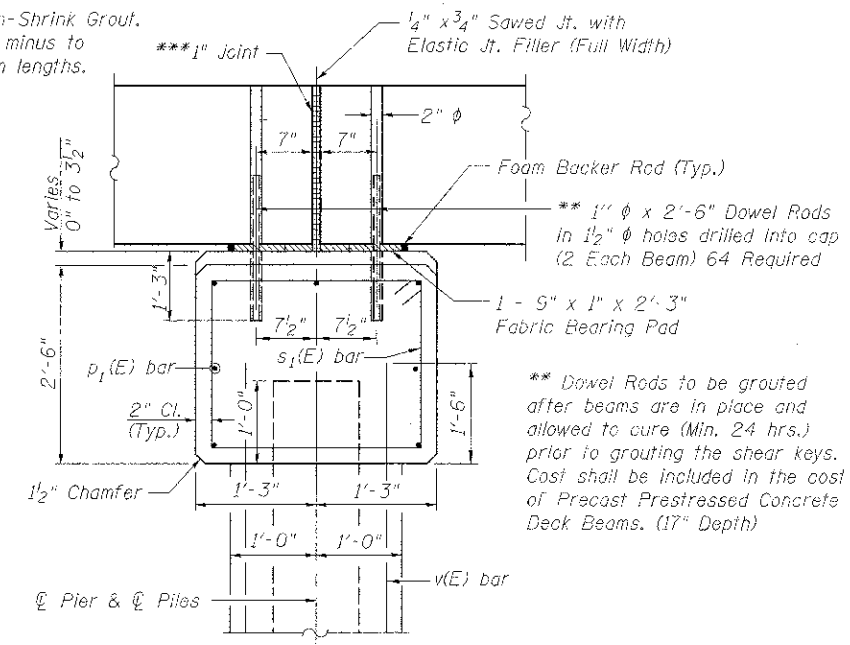
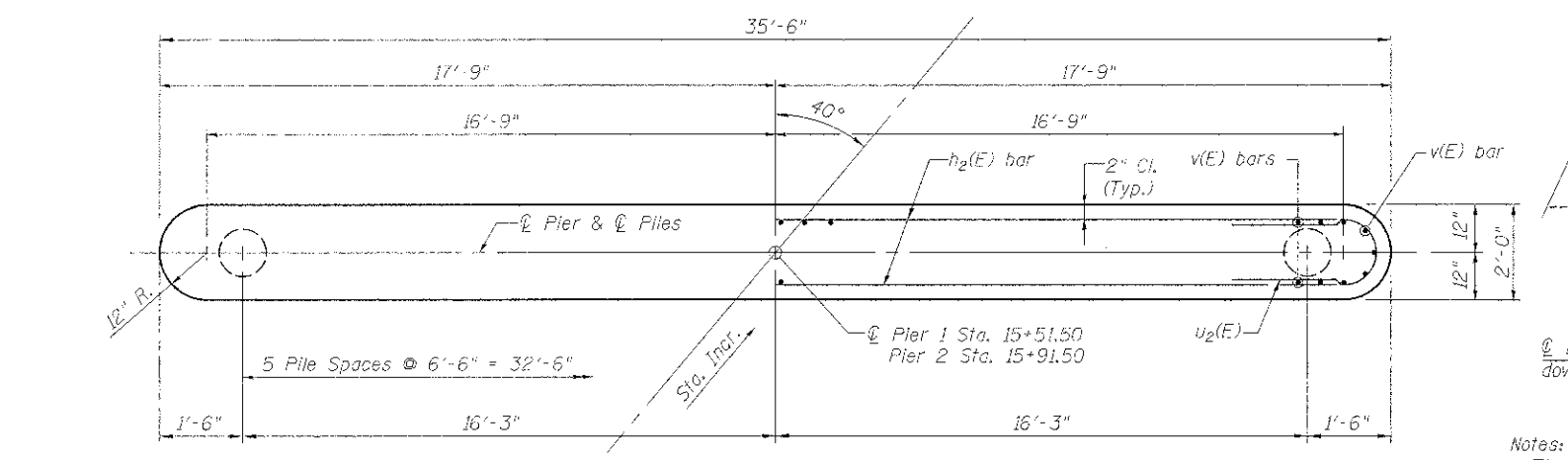
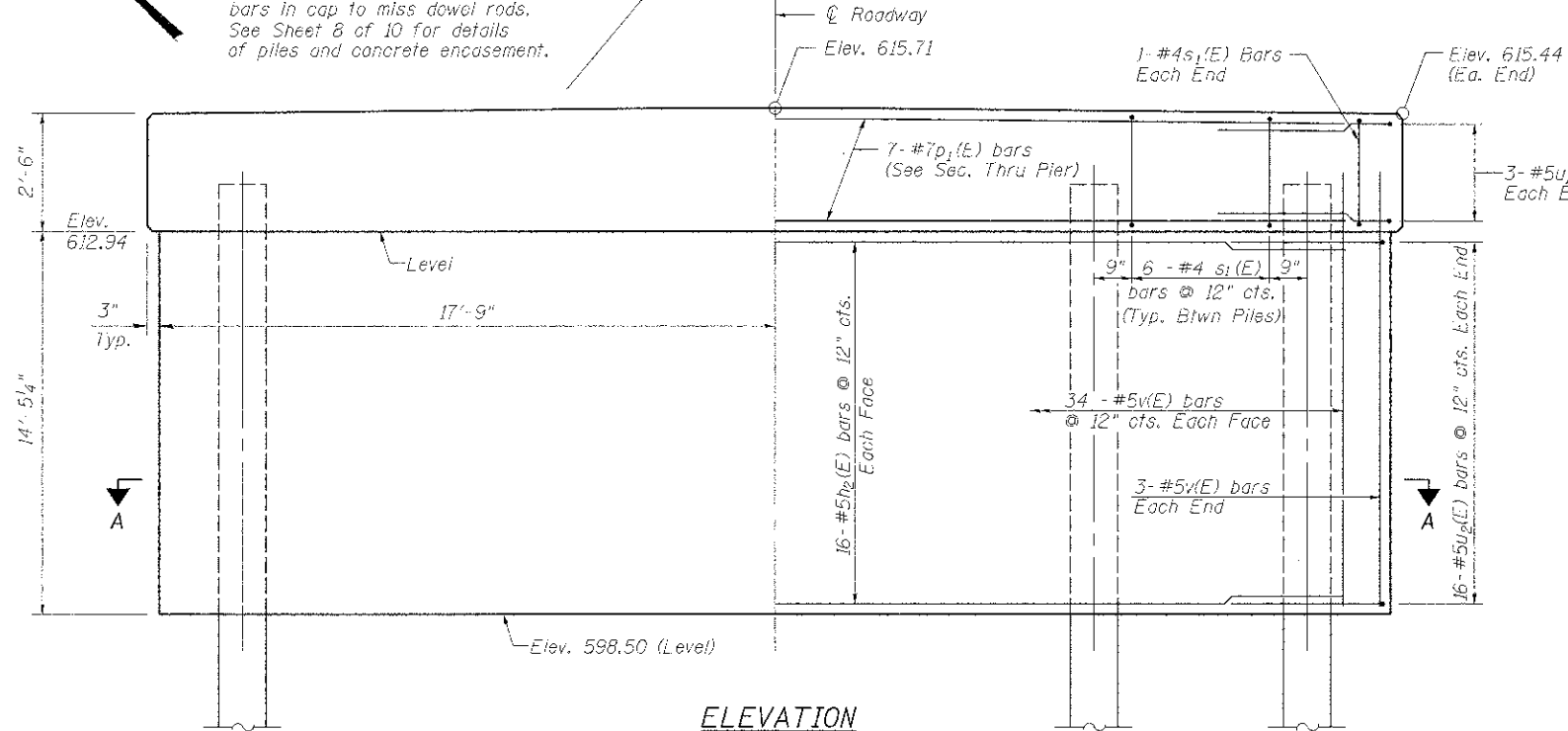
**PILE DATA**

Type: Metal Shell, 12"  $\frac{1}{4}$  x 0.25" wall  
 Nominal Required Bearing: Pier 1: 262 Kips, Pier 2: 268 Kips  
 Factored Resistance Available: Pier 1: 140 Kips, Pier 2: 140 Kips  
 Est. Length: Pier 1: 37', Pier 2: 50'  
 No. Production Piles: Pier 1: 6, Pier 2: 5  
 No. Test Piles: 1 (Pier 2)

\*\*\*1" Joint shall be filled with Non-Shrink Grout.  
 1" Dimension may vary plus or minus to accommodate tolerance in beam lengths.

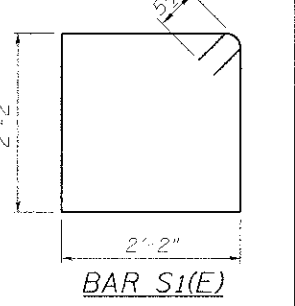
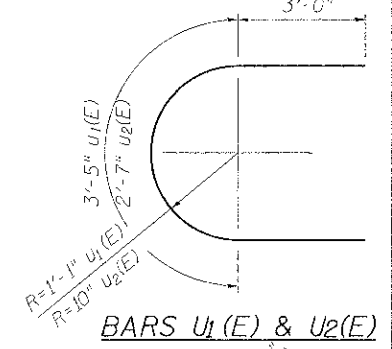


**NOTES**  
 Space reinforcement bars in cap to miss dowel rods. See Sheet 8 of 10 for details of piles and concrete encasement.



**TWO PIERS BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
$h_2(E)$	64	#5	33'-6"	
$p_1(E)$	14	#7	33'-6"	
$s_1(E)$	64	#4	9'-7"	
$u_1(E)$	12	#5	9'-5"	
$u_2(E)$	64	#5	8'-7"	
$v(E)$	148	#5	15'-10"	
			Cu. Yd.	92.4
			Pound	6,740
			Foot	472
			Each	1
			Cu. Yd.	81
			Each	1
			Each	1



**Notes:**  
 The bearing seat surfaces shall be adjusted by shimming the bearing to assure firm and even bearing prior to placement of grout. 2- $\frac{1}{2}$ " fabric adjusting shims of the dimensions of the exterior bearing pad shown shall be provided for each bearing.



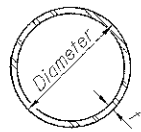
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USER NAME: amanda	CHECKED - TRELLO	REVISIONS - AH 9/09/11
SCALE: 1/4" = 1'-0"	DRAWN - VERENSKI	REVISIONS -
DATE: 12/15/2011	CHECKED - TRELLO	REVISIONS -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**PIERS 1 & 2 STRUCTURE NO. 011-3417**

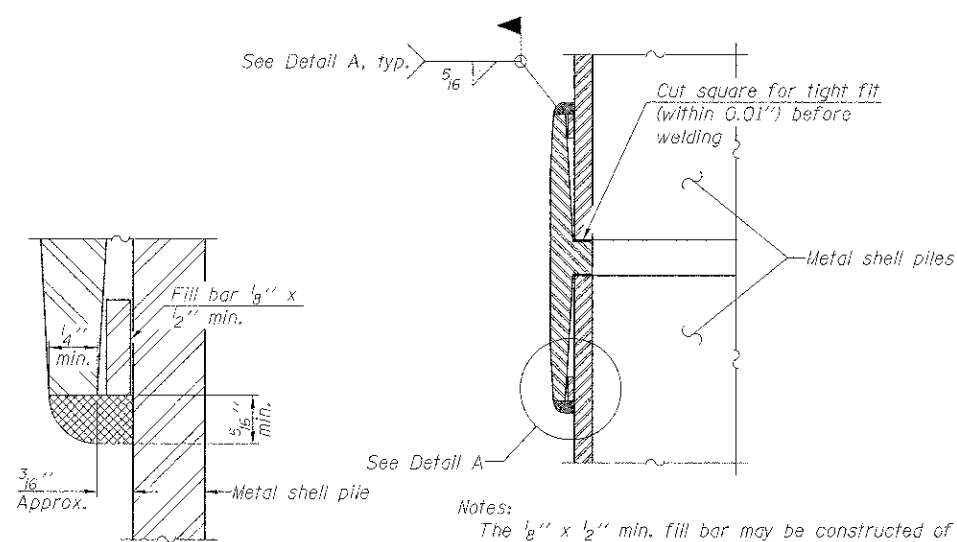
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CONTRACT NO. 93567			ILLINOIS FED. AID PROJECT: BR05-0021 (175)	

SHEET NO. 7 OF 10 SHEETS



**METAL SHELL PILE TABLE**

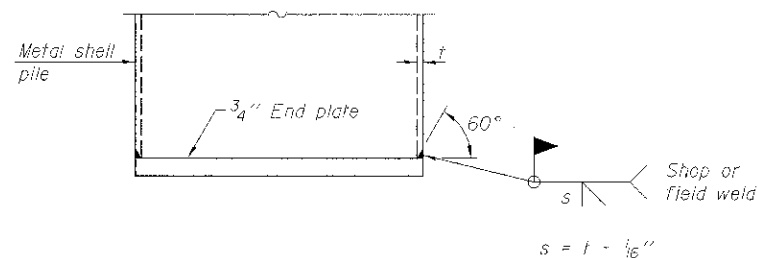
Designation and outside diameter	Wall thickness t	Weight per foot (l.bs./ft.)	Inside volume (yd. <sup>3</sup> /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361



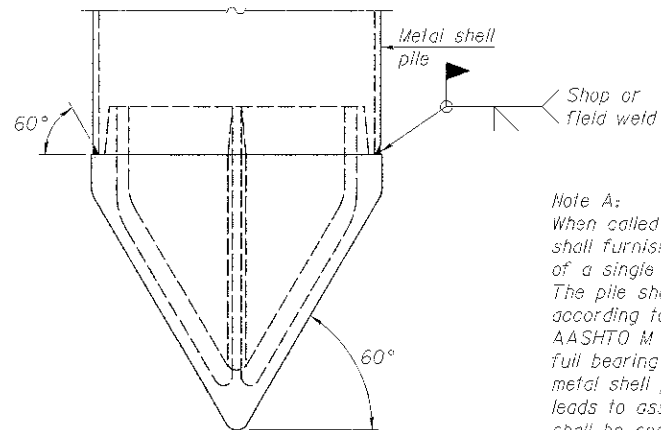
**DETAIL A**

Notes:  
 The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.  
 Pile segments shall be driven to solid contact with splicer before welding.

**WELDED COMMERCIAL SPLICE**



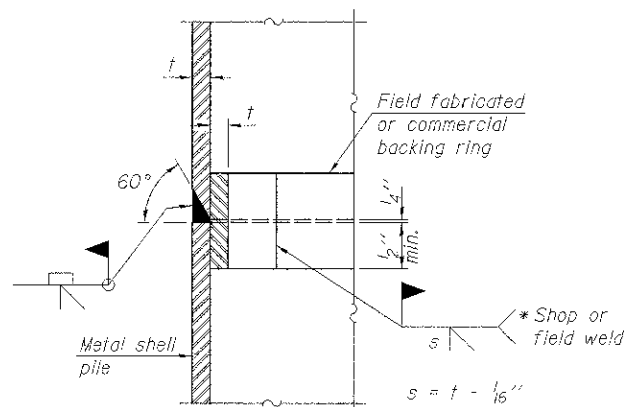
**END PLATE ATTACHMENT**



**METAL SHELL PILE SHOE ATTACHMENT**

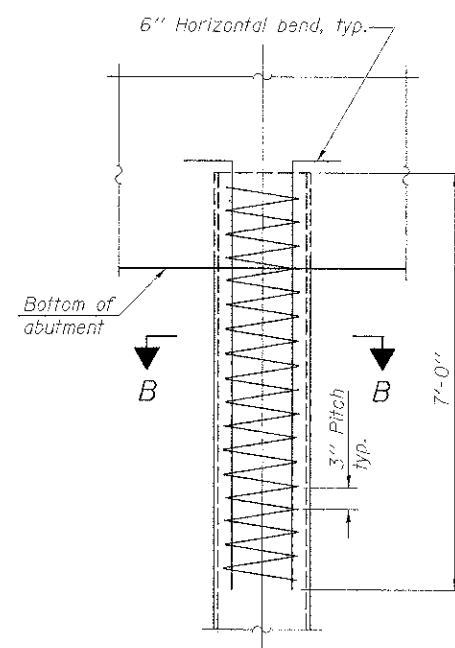
(See Note A)

Note A:  
 When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.

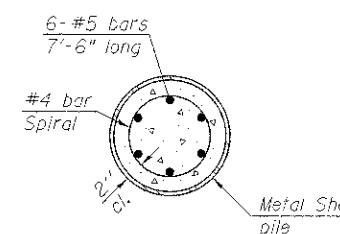


**COMPLETE PENETRATION WELD SPLICE**

\* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



**ELEVATION**



**SECTION B-B**

**METAL SHELL REINFORCEMENT AT ABUTMENTS**

Note:  
 The metal shell piles shall be according to ASTM A 252 Grade 3.



7-1-10

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	PLOT SCALE = 0.1" = 1'-0"	DRAWN - VERENSKI	REVISED -
	PLOT DATE = 12/15/2011	CHECKED - TRELLO	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**METAL SHELL PILE DETAILS  
 STRUCTURE NO. 011-3417**

SHEET NO. 8 OF 10 SHEETS

F.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307A	08-0418-00BR	CHRISTIAN	26	16
CONTRACT NO. 93567				
ILLINOIS' FED. AID PROJECT: BR03-002 (176)				





Christian County Bridge  
Greenwood Township  
Existing Structure No. 011-3247  
Project #181-2579

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

DATE: September 17, 2009  
BORING TECH: M. Maliska  
DRILLING TECH: M. Hough

FOUNDATION BORING LOG

BORING NO.: 2	N	Qu	W	REC	GROUNDWATER ELEV.	N	Qu	W	REC
Station: 15 ft. W. of W.	Value	(tsf)	(%)	(%)	COMP.: -10.1 ft.; Bridge @ -16.3 ft.	Value	(tsf)	(%)	(%)
Abutment: 11 ft. N. of Centerline					AFTER 24 HRS.: --				
SURFACE ELEV.: 612.3 ft.									
SILTY LOAM (ML), Dark Brown, Dry, Medium Stiff	0				20				
		P			Loose				
	3	1.0	16.3	20	SILTY CLAY (CL), Gray, Dry to Moist, Hard, Trace of Sand	7	NP	17.2	80
		P					P		
SILTY CLAY LOAM (CL), Dark Brown, Dry to Moist, Medium Stiff	5	3	2.0	16.5	85	28	4.5	13.4	85
		P			Very Stiff		P		
SILTY CLAY (CL), Dark Brown, Moist, Stiff, Trace of Sand	5	3.0	17.7	85		22	>4.5	14.2	70
		P					P		
Medium Stiff	10	5	1.76	19.3	100	30	14	4.0	16.4
		P					P		
SILTY CLAY LOAM (CL), Gray, Reddish-Brown, Moist to Wet, Soft, Trace of Sand	2	0.5	23.0	95					
		P			CLAY (CL), Gray, Moist, Stiff, Trace of Sand		P		
SAND (SP), Light Brown, Saturated, Very Loose, Fine, Trace of Fines	18	1	NP	24.0	50	35	9	2.5	16.8
		P					P		
SILTY LOAM (ML), Gray, Wet, Very Soft, Trace of Sand	1	0.75	26.0	55					
		P			SAND (SW), Gray, Saturated, Very Dense, Fine to Medium Coarse				
SAND (SP), Gray, Saturated, Very Loose, Fine, Trace of Clay	20	1	NP	32.7	100	40	100/10	NP	12.2
		P							

N: Blows per ft. to Drive 2" O.D. Split Spoon Sampler  
12" with 140 lb. Hammer falling 50"  
(Standard Penetration Test)  
RCQ: 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

Christian County Bridge  
Greenwood Township  
Existing Structure No. 011-3247  
Project #181-2579

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

DATE: September 17, 2009  
BORING TECH: M. Maliska  
DRILLING TECH: M. Hough

FOUNDATION BORING LOG

BORING NO.: 2	N	Qu	W	REC	GROUNDWATER ELEV.	N	Qu	W	REC
Station: 15 ft. W. of W.	Value	(tsf)	(%)	(%)	COMP.: -10.1 ft.; Bridge @ -16.3 ft.	Value	(tsf)	(%)	(%)
Abutment: 11 ft. N. of Centerline					AFTER 24 HRS.: --				
SURFACE ELEV.: 612.3 ft.									
SAND (SW), Gray, Saturated, Very Dense, Fine to Medium Coarse	40				80				
		P			Very Stiff, Trace of Gravel		P		
SILTY CLAY TILL (CL), Gray, Dry to Moist, Hard, Trace of Sand	45	20	>4.5	12.2	100	85	24	>4.5	13.4
		P					P		
	60	20	>4.5	12.0	100	70	28	>4.5	14.3
		P					P		
	80	28	>4.5	14.3	95				
		P					P		
SILTY LOAM TILL (ML), Gray, Dry to Moist, Very Stiff	85	21	>4.5	16.0	80	75	36	>4.5	11.4
		P			Hard		P		
	95	31	>4.5	16.0	80				
		P					P		
SILTY CLAY TILL (CL), Gray, Dry to Moist, Stiff, Trace of Sand	60	13	3.6	23.5	80	80	37	>4.5	12.6
		P					P		

N: Blows per ft. to Drive 2" O.D. Split Spoon Sampler  
12" with 140 lb. Hammer falling 50"  
(Standard Penetration Test)  
RCQ: 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

Christian County Bridge  
Greenwood Township  
Existing Structure No. 011-3247  
Project #181-2579

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

DATE: September 17, 2009  
BORING TECH: M. Maliska  
DRILLING TECH: M. Hough

FOUNDATION BORING LOG

BORING NO.: 2	N	Qu	W	REC	GROUNDWATER ELEV.	N	Qu	W	REC
Station: 15 ft. W. of W.	Value	(tsf)	(%)	(%)	COMP.: -10.1 ft.; Bridge @ -16.3 ft.	Value	(tsf)	(%)	(%)
Abutment: 11 ft. N. of Centerline					AFTER 24 HRS.: --				
SURFACE ELEV.: 612.3 ft.									
	60				100				
		P					P		
	80				105				
		P					P		
	90				110				
		P					P		
	100				120				
		P					P		

N: Blows per ft. to Drive 2" O.D. Split Spoon Sampler  
12" with 140 lb. Hammer falling 50"  
(Standard Penetration Test)  
RCQ: 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

Notes:  
1) Boring backfilled with spec. ballings upon completion of final groundwater measurement.  
2) Creek flow to at approximate elevation of 601.1 ft. at time of boring activities.  
3) Elevations based on local benchmark provided by Christian County Highway Dept.

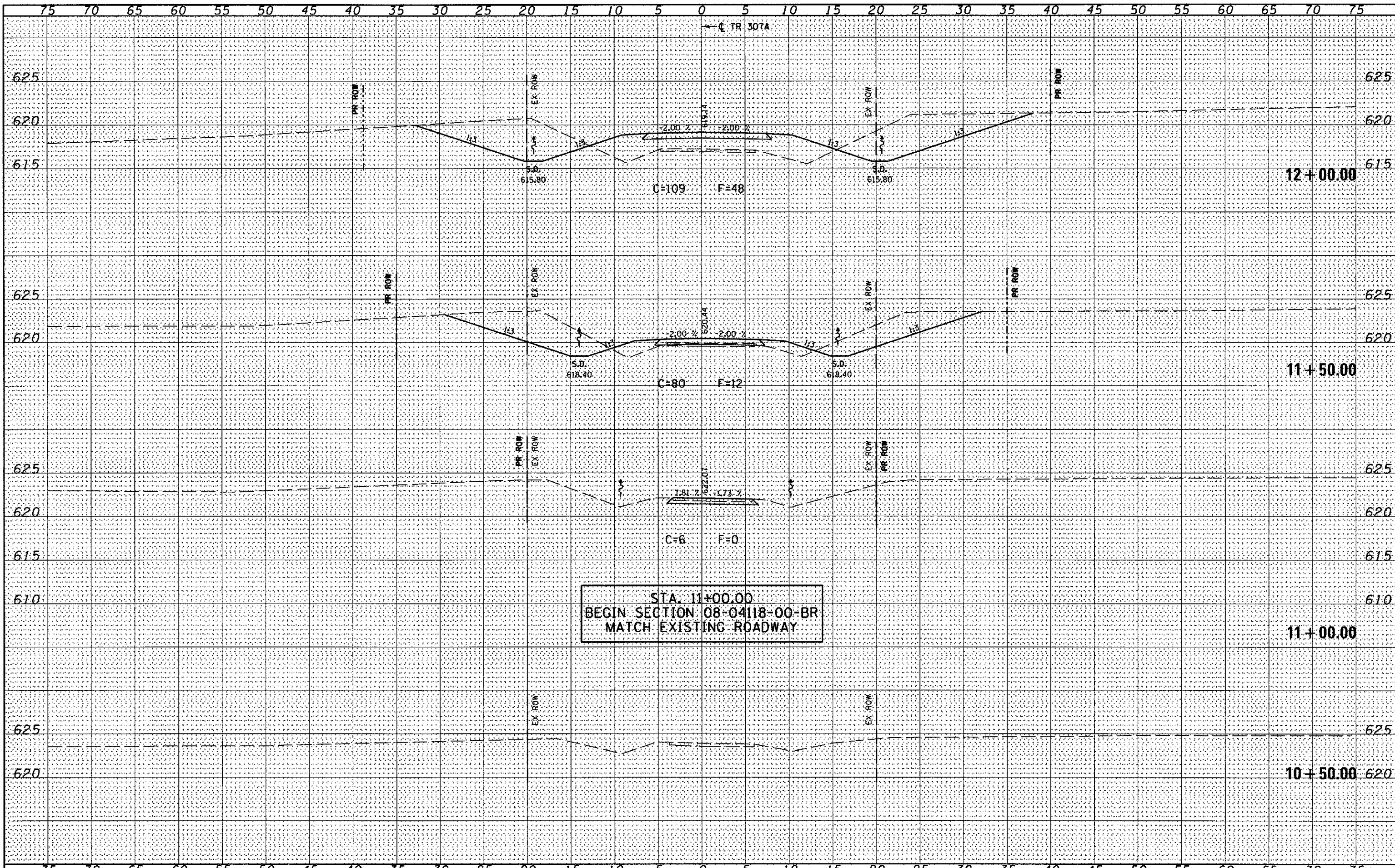


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PLOT DATE = 5/3/2011	CHECKED - TRELLO	CHECKED - TRELLO	REVISED -			ILLINOIS FED. AID PROJECT: BR05-0021 (17%)					

DATE	
BY	
FINAL SURVEY	
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NOTE BOOK	
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ORIGINAL SURVEY	
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NOTE BOOK	
AREAS CHECKED	
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GREENE & BRADFORD, INC.  
 OF GREENSBORO, N.C.  
 1000 W. GARDNER ST., SUITE 100  
 GREENSBORO, N.C. 27409  
 (704) 733-8800  
 FAX (704) 733-8801  
 WWW.GREENE-AND-BRADFORD.COM



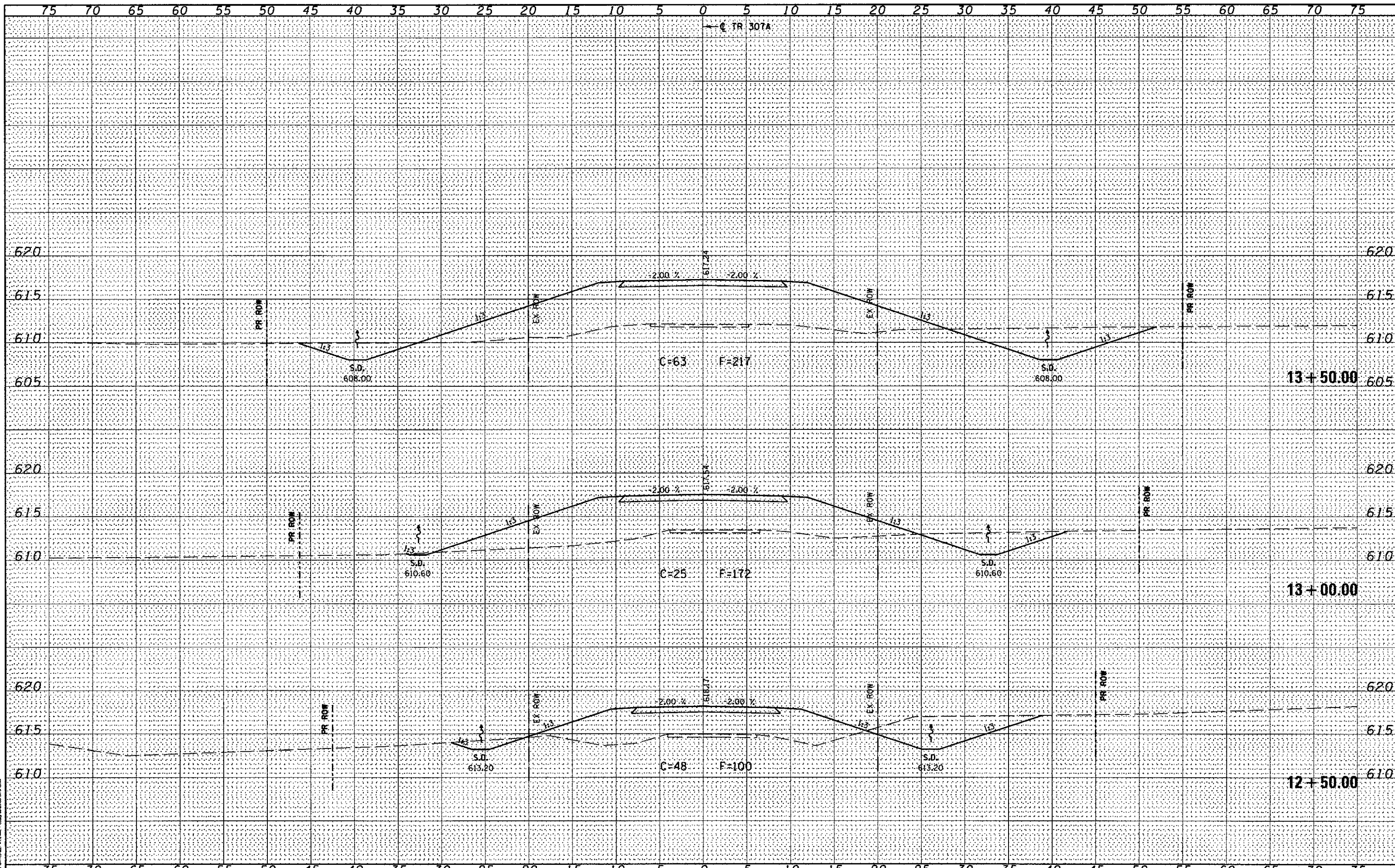
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G&B PROJECT: 09029	PLLOT SCALE = 10,0000' / in.	DRAWN - MOS	REVISED -		SCALE: 1" = 5'	SHEET NO. 1 OF 8 SHEETS	STA. 10+50.00 TO STA. 12+00.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT BROS-0021 (178)	CONTRACT NO. 93567		
PLLOT DATE = 5/3/2011	CHECKED - WCB	DATE - 5/4/09	REVISED -									
PLLOT DRIVER = vb1.pdf.pltcf												

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

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

GREENE & BRAUNHORN, INC.  
 1000 N. WASHINGTON ST., SUITE 200  
 CHICAGO, ILLINOIS 60610  
 (773) 344-1100  
 WWW.GREENE-AND-BRAUNHORN.COM

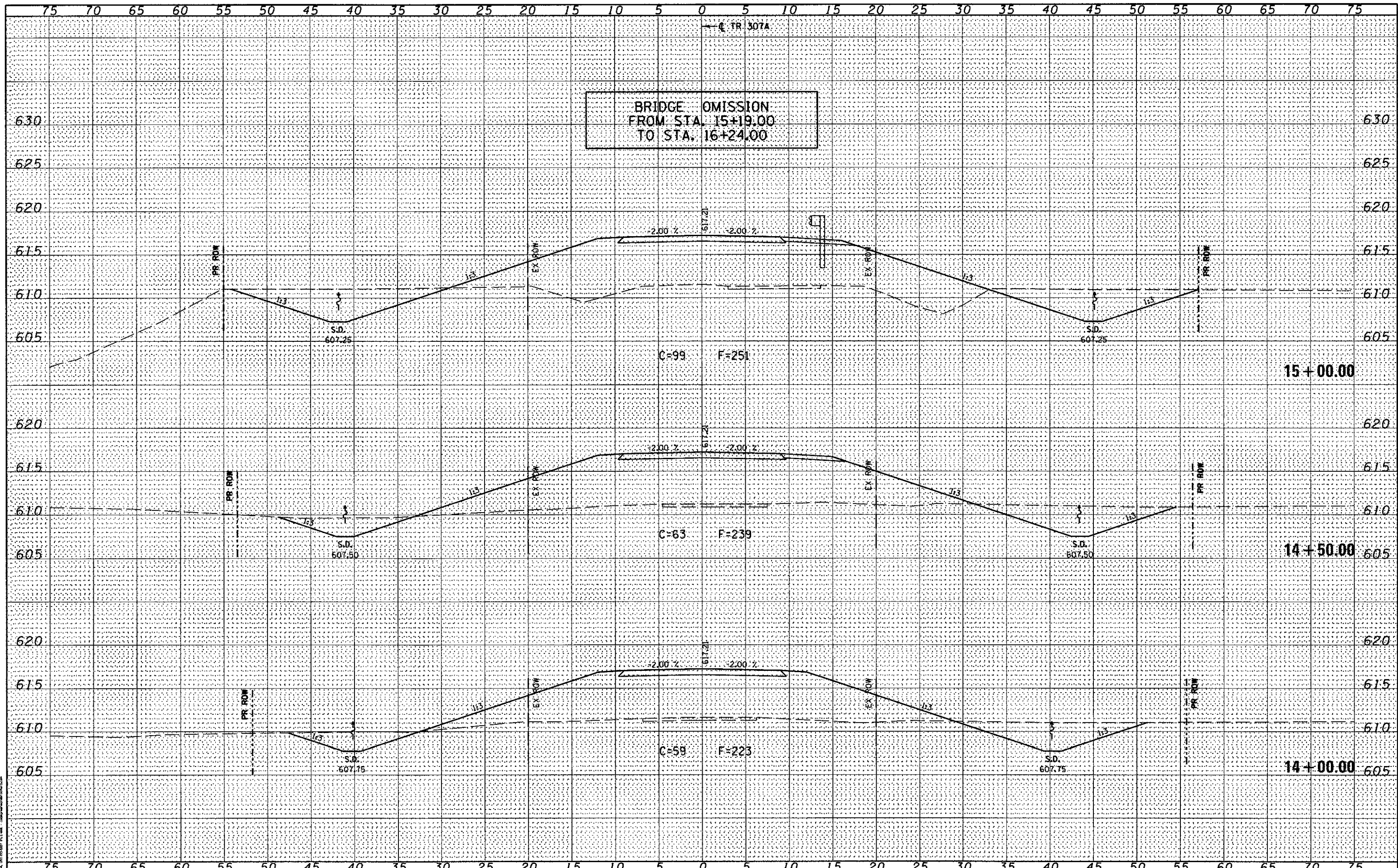


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C&B PROJECT: 09029		CHECKED - WCB	REVISED -							
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BY	
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PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

GREENE & BRADFORD, INC.  
 OF ENGINEERS  
 1000 N. WASHINGTON ST.  
 CHICAGO, ILL. 60610  
 PHONE: (312) 467-1000  
 FAX: (312) 467-1001  
 WWW: WWW.GREENE-AND-BRADFORD.COM



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DATE - 5/4/09	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

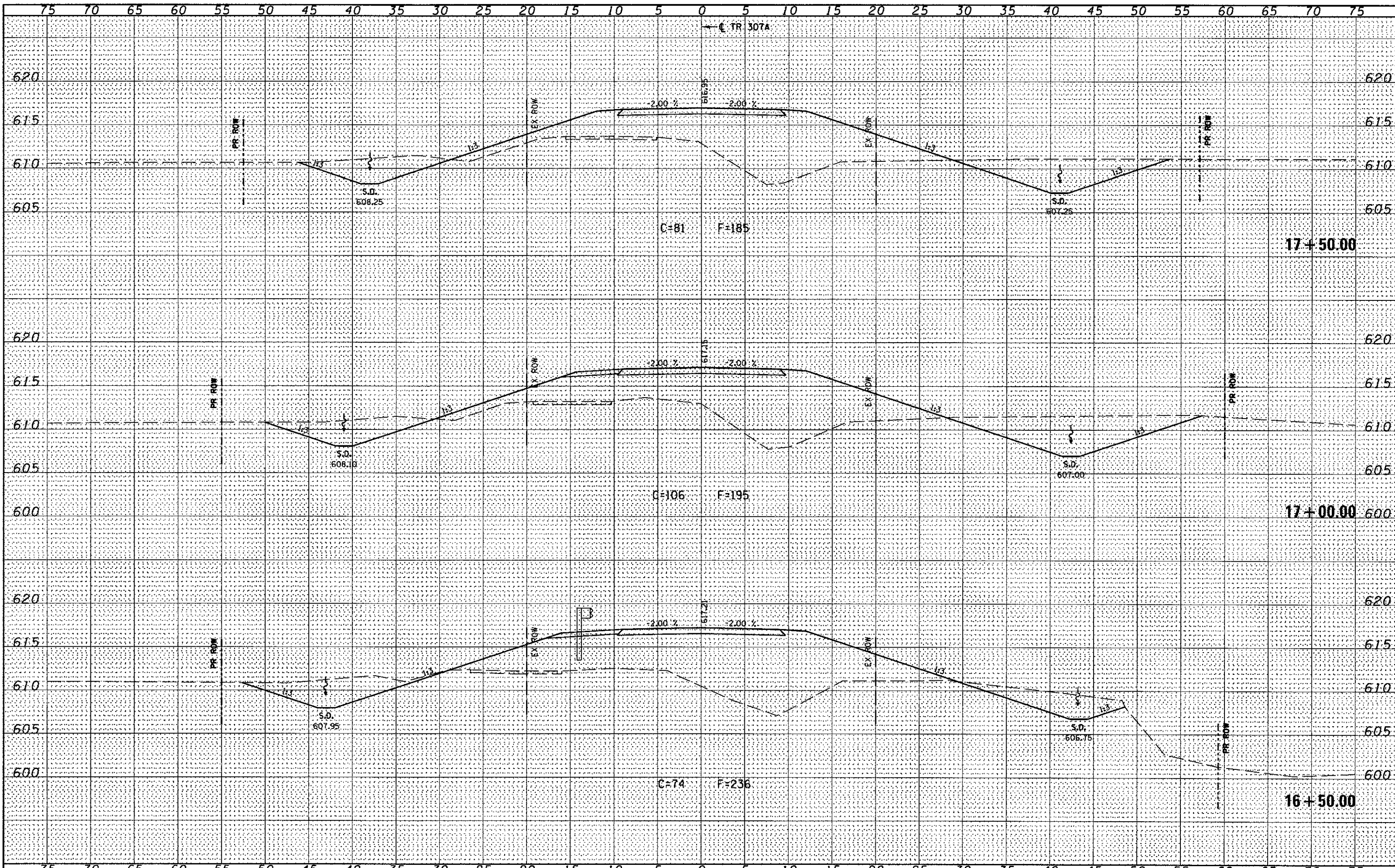
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 STA. 14+00.00 TO STA. 15+00.00

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307A	08-04118-00-BR	CHRISTIAN	26	21
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT BROS-0021 (178)	
CONTRACT NO.			93567	

DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
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 BY \_\_\_\_\_  
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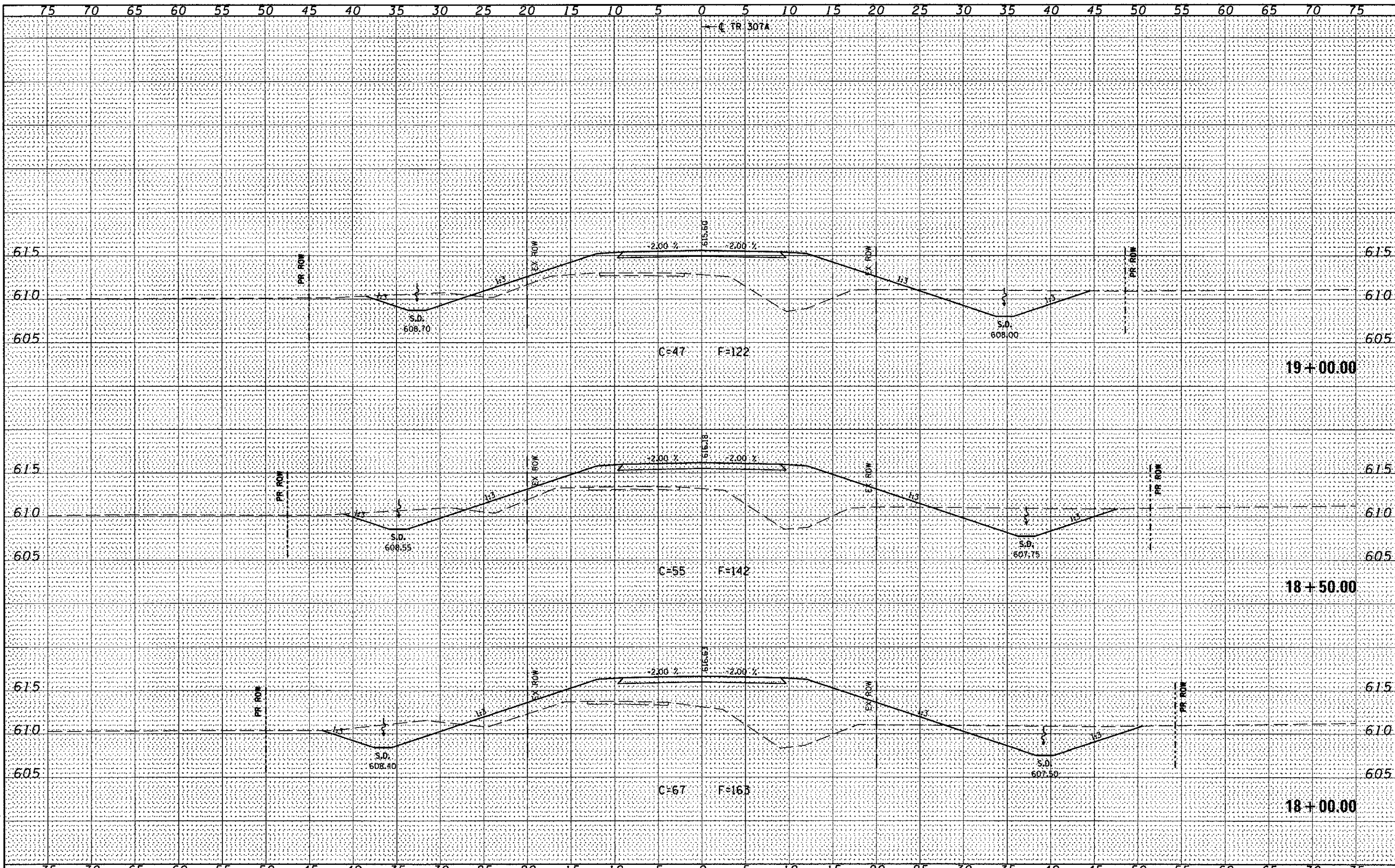
GREEN & READY, INC.  
 OF SPRINGFIELD  
 1000 N. WASHINGTON ST.  
 SPRINGFIELD, ILL. 62760  
 TEL: 217/223-8800  
 FAX: 217/223-8801  
 WWW.GREEN-AND-READY.COM



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ORIGINAL SURVEY	
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NOTE BOOK	
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NO.	

GREENE & BRADFORD, INC.  
 OF ENGINEERS  
 1000 N. WASHINGTON ST., SUITE 200  
 CHICAGO, ILL. 60610  
 TEL: (312) 467-1000  
 FAX: (312) 467-1001  
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DRAWN - MOS	REVISED -
CHECKED - WCB	REVISED -
DATE - 5/4/09	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TR 307A - CROSS SECTIONS  
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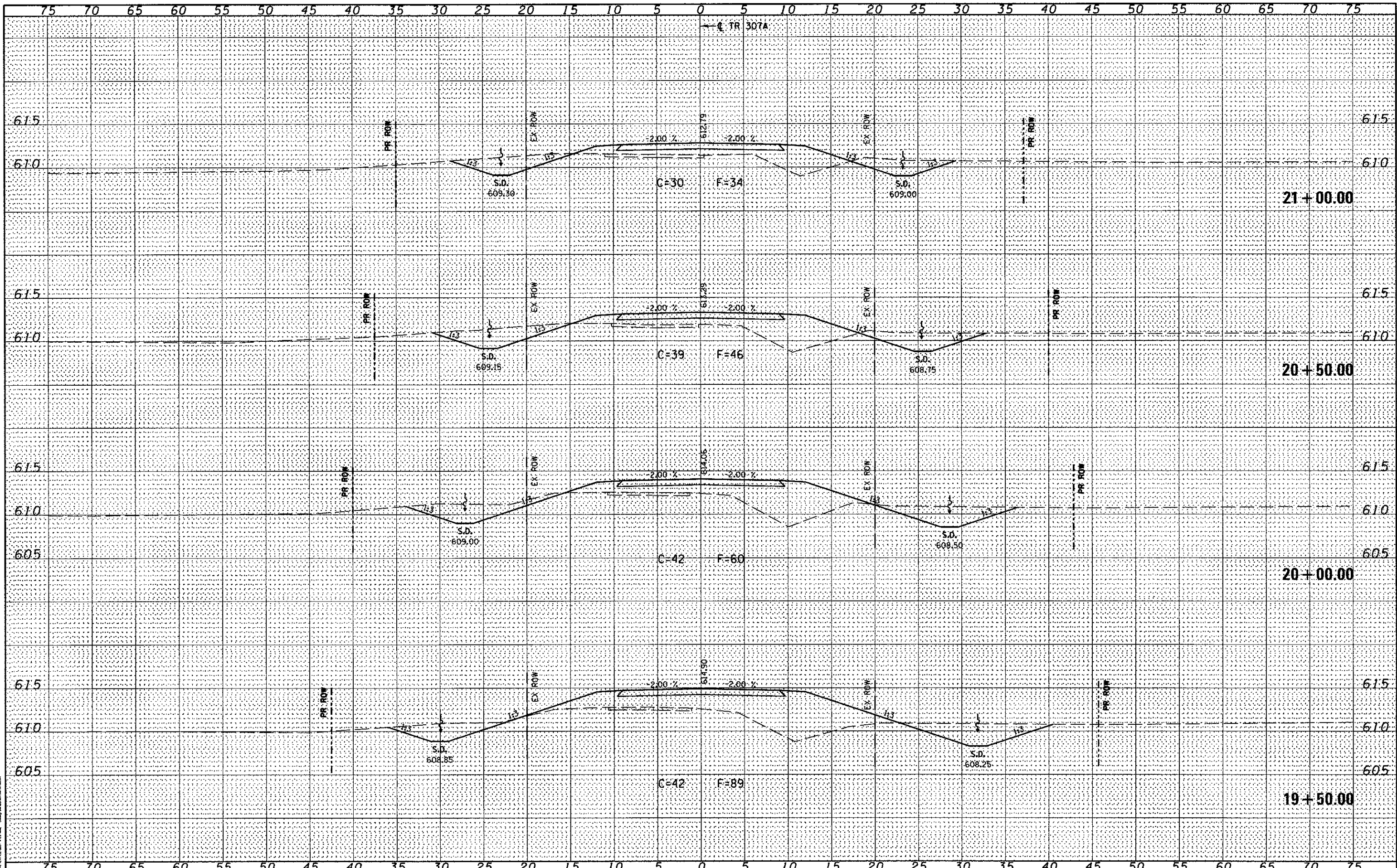
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FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT BROS-0021 (178)	
CONTRACT NO.			93567	



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NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
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NOTE BOOK	
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DESIGNED	- WCB	REVISED	-
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TR 307A - CROSS SECTIONS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307A	08-04118-00-BR	CHRISTIAN	26	24
CONTRACT NO. 93567				

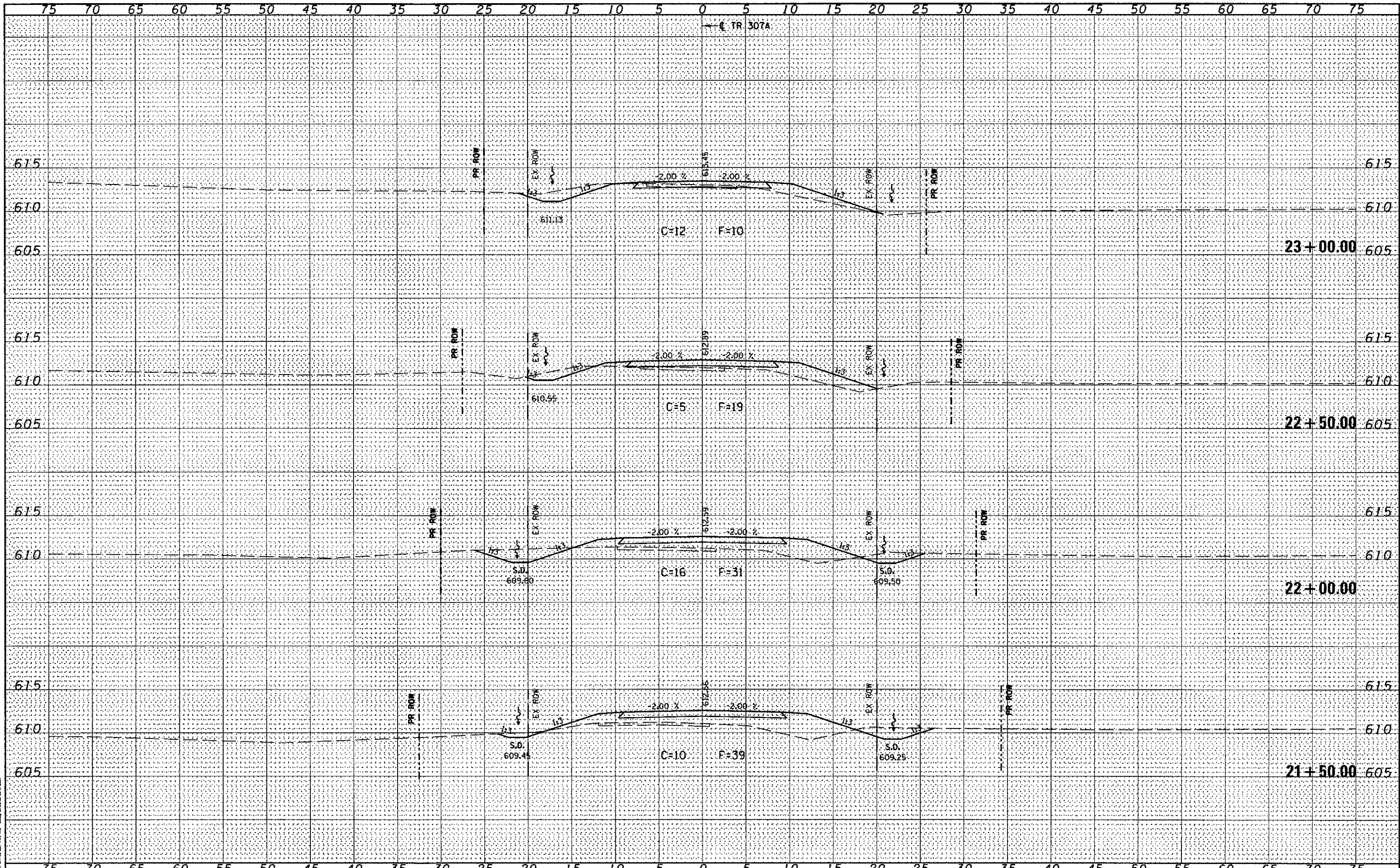
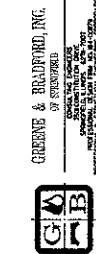
SCALE: 1" = 5' SHEET NO. 6 OF 8 SHEETS STA. 19+50.00 TO STA. 21+00.00 FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT BROS-0021 (178)

G&B PROJECT: 09029  
 PLOT DRIVER = vb1.pdf.pltfg



DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



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 USER NAME = amandah  
 DESIGNED - WCB  
 DRAWN - MDS  
 CHECKED - WCB  
 DATE - 5/4/09  
 PLOT SCALE = 10.0000' / 1" = 100'  
 PLOT DATE = 5/3/2011

DESIGNED - WCB	REVISED -
DRAWN - MDS	REVISED -
CHECKED - WCB	REVISED -
DATE - 5/4/09	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

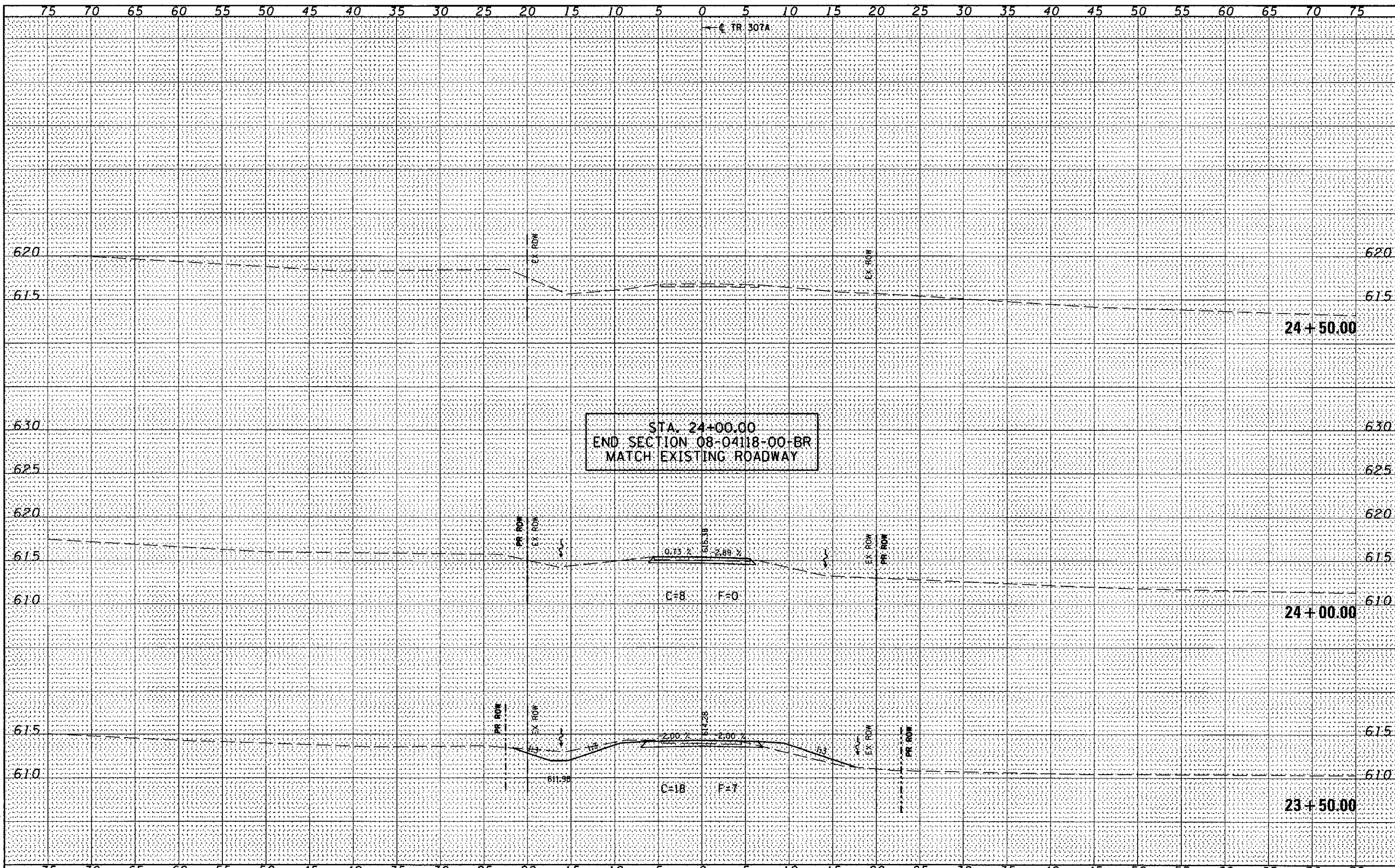
TR 307A - CROSS SECTIONS  
 SCALE: 1" = 5'  
 SHEET NO. 7 OF 8 SHEETS  
 STA. 21+50.00 TO STA. 23+00.00

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307A	08-04118-00-BR	CHRISTIAN	26	25
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT BROS-0021 (178)			CONTRACT NO. 93567	

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

GREENE & BRADY, INC.  
 OF ENGINEERS  
 1000 N. W. 10th St., Ft. Lauderdale, FL 33304  
 (954) 525-1100  
 FAX (954) 525-1101  
 WWW.GREENE-AND-BRADY.COM



FILE NAME = J:\09029\CADD\CADsheets\09029-ht-xsh.tdgn	USER NAME = amandah	DESIGNED - WCB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TR 307A - CROSS SECTIONS		T.R. RTE. 307A	SECTION 08-04118-00-BR	COUNTY CHRISTIAN	TOTAL SHEETS 26	SHEET NO. 26	
G&B PROJECT: 09029	PLLOT SCALE = 10,000' / 1" =	DRAWN - MDS	REVISED -		SCALE: 1" = 5'	SHEET NO. 8 OF 8 SHEETS	STA. 23+50.00 TO STA. 24+50.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT 6805-0021 (7)	CONTRACT NO. 93567		
PLLOT DATE = 5/3/2011	DATE = 5/4/09	CHECKED - WCB	REVISED -									
PLLOT DRIVER = v81_PDF.plt		DATE = 5/4/09	REVISED -									