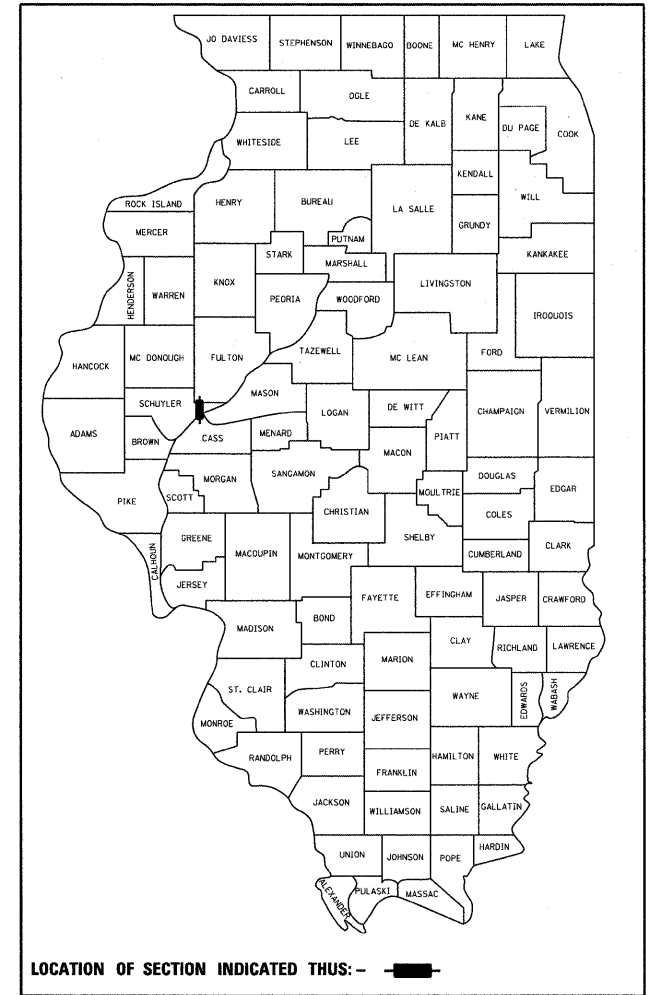


F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
454	04-00070-00-BR	SCHUYLER	30	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 93499		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS**

**PLANS FOR  
PROPOSED LOCAL AGENCY IMPROVEMENTS  
HIGHWAY BRIDGE PROGRAM  
AMERICAN RECOVERY & REINVESTMENT ACT**



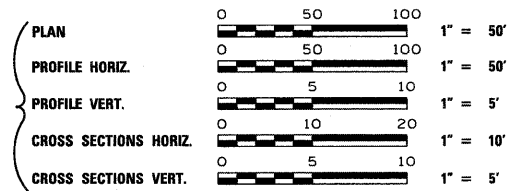
LOCATION OF SECTION INDICATED THUS:

**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SUMMARY OF QUANTITIES & GENERAL NOTES
3	TYPICAL SECTIONS AND DETAILS
4	SCHEDULE OF QUANTITIES
5	PLAN AND PROFILE
6	EROSION CONTROL & REMOVAL AND ADJUSTMENT PLAN
7 - 8	RIGHT OF WAY PLAN
9 - 25	BRIDGE PLANS
26 - 30	CROSS SECTIONS

**STANDARDS**

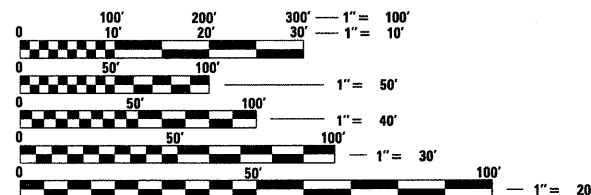
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
515001-03	NAME PLATE FOR BRIDGES
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
601101-01	CONCRETE HEADWALLS FOR PIPE DRAIN
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
666001-01	RIGHT OF WAY MARKERS
701901-01	TRAFFIC CONTROL DEVICES
B.L.R. 21-8	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
B.L.R. 26-2	STEEL PLATE BEAM GUARDRAIL 27 1/2" HEIGHT
B.L.R. 27-1	TRAFFIC BARRIER TERMINAL TYPE 5A



**CH 8 / FAS ROUTE 454  
SECTION 04-00070-00-BR  
SCHUYLER COUNTY  
PROJECT BRS-ARA-0454(104)  
JOB NUMBER C-96-202-10**

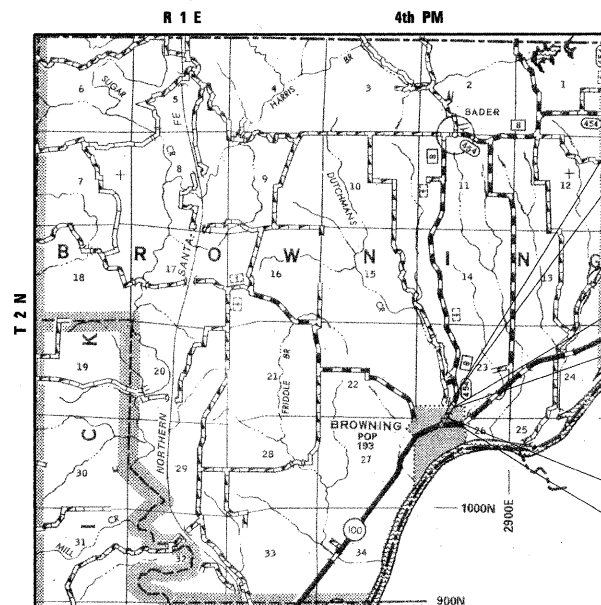
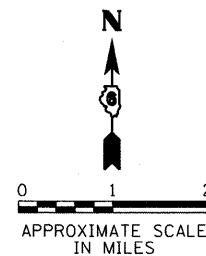
**UTILITIES**

AMEREN CIPS  
AT&T  
SPOON RIVER ELECTRIC COOPERATIVE  
VILLAGE OF BROWNING



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



**LOCATION MAP**

NET LENGTH OF PROJECT = 540.00 FEET = 0.178 MILES

**DESIGN DESIGNATION**

MINOR COLLECTOR: ADT = 650  
DESIGN SPEED: 40 MPH

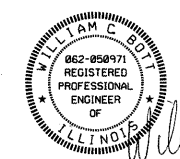
STA. 9+40.00  
END IMPROVEMENTS  
SECTION 04-00070-00-BR

EXISTING STRUCTURE  
SN 085-3081  
TWO SPAN REINFORCED CONCRETE DECK W/STEEL WF BEAMS ON CLOSED TIMBER ABUTMENTS AND A TIMBER PILE BENT PIER (62'-0" LENGTH X 23'-0" WIDE) TO BE REMOVED.

PROPOSED STRUCTURE  
SN 085-3055  
SINGLE SPAN CONCRETE DECK ON ROLLED I-BEAMS ON REINFORCED CONCRETE INTEGRAL ABUTMENTS (82'-0" LENGTH X 30'-0" WIDE).

STA. 0+00.00  
BEGIN IMPROVEMENTS  
SECTION 04-00070-00-BR

APPROVED	September 11 20 09
	<i>David J. Schuyler</i> COUNTY ENGINEER
PASSED	October 14 20 09
	<i>Terrence H. Fordain</i> DISTRICT SIX ENGINEER OF LOCAL ROADS & STREETS
PASSED	October 13 20 09
	<i>Ron Cushman</i> DISTRICT SIX ENGINEER OF CONSTRUCTION
Releasing For Bid Based on Limited Review	October 14 20 09
	<i>Roger A. Diskal</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION FOUR ENGINEER
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	



*William C. Bost*  
09/14/09

EXPIRES: 11/30/09

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

COMPUTER FILE NO. 07258-sht-cover.dgn	PROJECT 07258 9/11/09 - MDS
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PLOT DATE = 9/11/2009 10:28:02 AM  
FILE NAME = J:\07258\CH08\CH08plans\07258-sht-cover.dgn  
PLOT SCALE = 50/1000  
PLOT DRIVER = VBI.TDS/700.PS\_LOCAL.plt.cfg  
OPERATOR = mcr-k

GREENE & BRADFORD, INC.  
REGISTERED PROFESSIONAL ENGINEERS  
1001 N. WASHINGTON ST., SUITE 100  
CHICAGO, ILLINOIS 60610  
TEL: 312.281.1100 FAX: 312.281.1101  
WWW.GREENE-AND-BRADFORD.COM



**CONTRACT NO. 93499**

G&B PROJECT: 07258



**PAVEMENT DESIGN DATA**

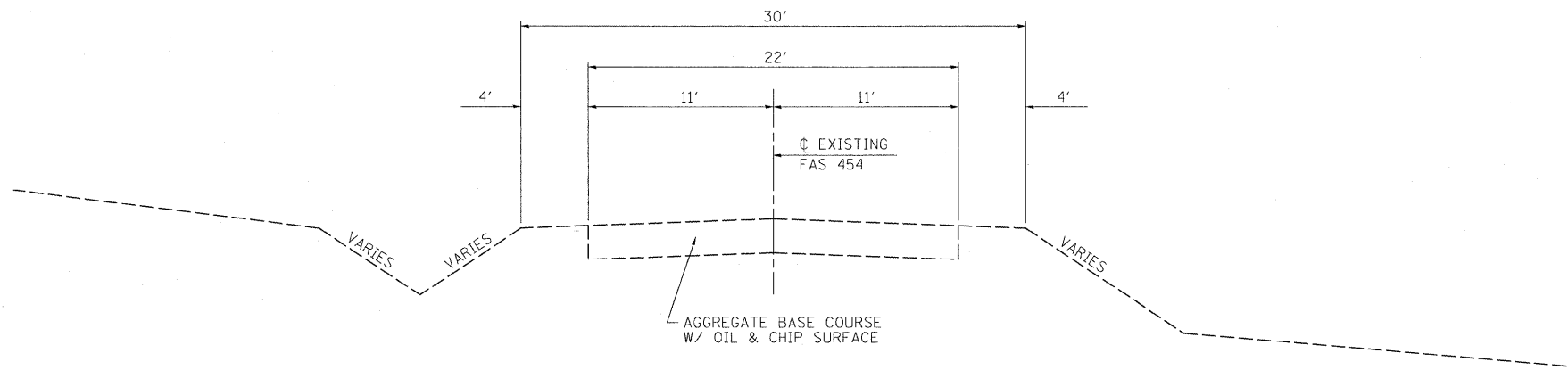
THE FINAL PAVEMENT DESIGN WILL BE BUILT IN TWO PHASES. PHASE 1 WILL BE CONSTRUCTED UNDER THIS PROJECT. PHASE 2 WILL BE FUTURE CONSTRUCTION.

CLASS III ROADWAY  
 DESIGN PERIOD : 20 YEARS  
 STRUCTURAL DESIGN TRAFFIC (SDT):  
 YEAR = 2019  
 PV = 664  
 SU = 53  
 MU = 38  
 TRAFFIC FACTOR (TF) = 0.2049  
 MINIMUM SOIL SUPPORT :  $E_{RI} = 3$

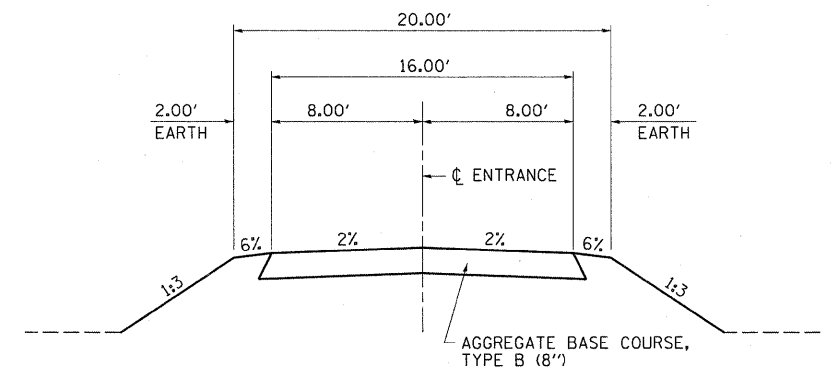
PAVEMENT PROVIDED:

PHASE 1:  
 12" AGGREGATE BASE COURSE, TYPE B  
 A-3 BITUMINOUS SURFACE TREATMENT (BY OTHERS)  
 PHASE 2:  
 1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50  
 3 1/2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50

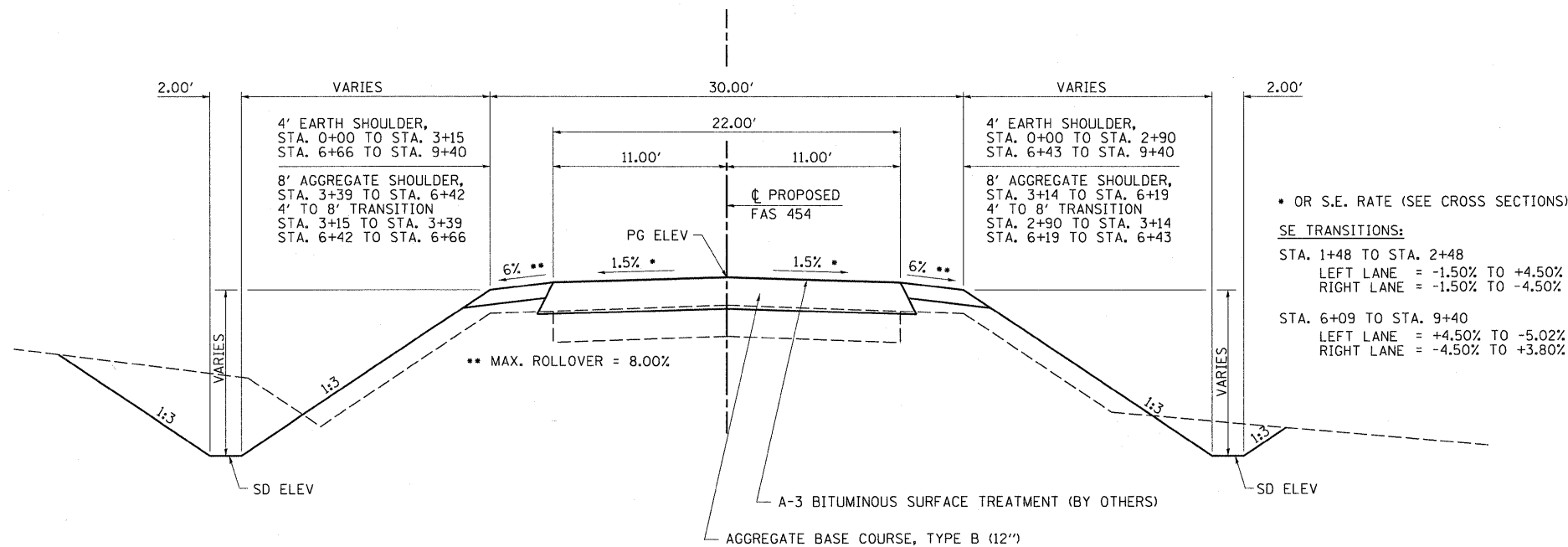
HOT-MIX ASPHALT MIXTURE REQUIREMENTS			
ITEM	AGGREGATE COMPOSITION	ASPHALT GRADE	VOIDS
HMA BINDER COURSE	IL-19.0	PG 64 -22	4.0% @ N50
HMA SURFACE COURSE	IL-9.5 or 12.5 Mix "C"	PG 64 -22	4.0% @ N50



**EXISTING TYPICAL ROADWAY SECTION**



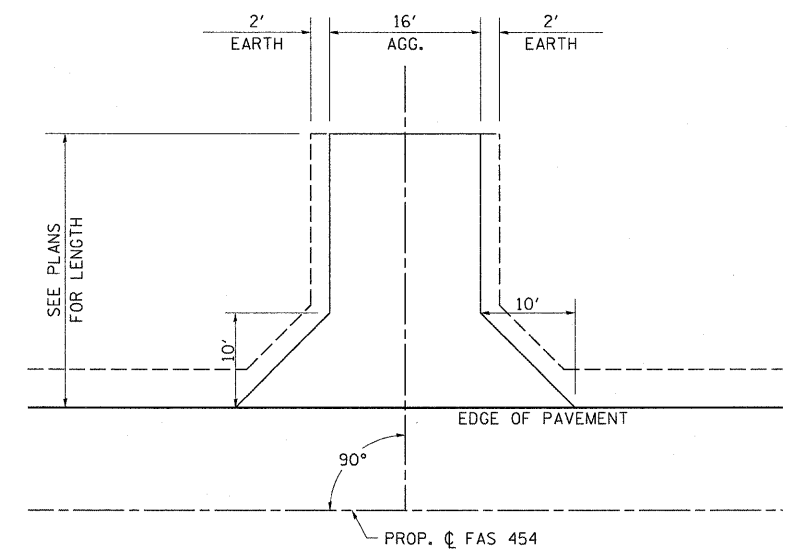
**PROPOSED TYPICAL ENTRANCE SECTION**



**EXISTING TYPICAL ROADWAY SECTION**

BRIDGE OMISSION:  
 STA. 4+38.00 TO STA. 5+20.00

- OR S.E. RATE (SEE CROSS SECTIONS)
- SE TRANSITIONS:**
- STA. 1+48 TO STA. 2+48  
 LEFT LANE = -1.50% TO +4.50%  
 RIGHT LANE = -1.50% TO -4.50%
- STA. 6+09 TO STA. 9+40  
 LEFT LANE = +4.50% TO -5.02%  
 RIGHT LANE = -4.50% TO +3.80%



**PROPOSED TYPICAL ENTRANCE DETAIL**

GREENE & BRADFORD, INC.  
 OF SPRINGFIELD  
 300 SOUTH MAIN STREET  
 SPRINGFIELD, ILLINOIS 62761  
 TEL: 217/223-1111 FAX: 217/223-1112  
 WWW.GRENEANDBRADFORD.COM



FILE NAME = J:\07258\CADD\CADsheets\07258-ah-typical.dgn	USER NAME = frankv	DESIGNED - WCB	REVISED -
PLOT SCALE = 50.0000 1/16" = 1'	CHECKED - WCB	DRAWN - MDS	REVISED -
PLOT DATE = 9/18/2009	DATE = 7/10/39		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS AND DETAILS**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
454	04-00070-00-BR	SCHUYLER	30	3
CONTRACT NO. 93499				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT BRS-0454(103)				

PAVEMENT SCHEDULE		
LOCATION	AGGREGATE BASE COURSE, TYPE B (TON)	AGGREGATE SHOULDERS, TYPE B (TON)
STA. 0+00 TO STA. 4+38	765	
LT. STA. 3+00, PE	130	
RT. STA. 2+90 TO RT. STA. 4+33		44
LT. STA. 3+15 TO LT. STA. 4+45		40
RT. STA. 5+14 TO RT. STA. 6+43		40
STA. 5+20 TO STA. 9+40	735	
LT. STA. 5+23 TO LT. STA. 6+66		44
<b>TOTALS</b>	<b>1630</b>	<b>168</b>

TREE REMOVAL SCHEDULE			
	6 TO 15 UNITS DIA. (UNIT)	OVER 15 UNITS DIA. (UNIT)	ACRES (ACRE)
STA. 2+33, 38' LT.	15		
STA. 2+38, 27' RT.	15		
STA. 2+57, 33' LT.	15		
STA. 5+52, 42' LT.		18	
STA. 6+09, 29' LT.		36	
STA. 2+51 RT. TO STA. 5+73 RT.			0.1
STA. 5+19 LT. TO STA. 6+21 LT.			0.1
<b>TOTALS</b>	<b>45</b>	<b>54</b>	<b>0.2</b>

SEEDING AND EROSION CONTROL SCHEDULE				
LOCATION	SEEDING, CLASS 2 (SPECIAL) (ACRE)	TEMPORARY EROSION CONTROL SEEDING (3 APPLICATIONS) (POUND)	TEMPORARY DITCH CHECKS (EACH)	PERIMETER EROSION BARRIER (FOOT)
STA. 0+00, 35' RT. TO STA. 4+19, 43' LT.				410
LT. STA. 0+00 TO LT. STA. 2+92	0.21	63		
RT. STA. 0+00 TO RT. STA. 4+53	0.27	81		
LT. STA. 0+50			1	
STA. 2+68, 46' LT. TO STA. 2+76, 126' LT.				80
LT. STA. 3+08 TO LT. STA. 4+76	0.12	36		
STA. 3+25, 118' LT. TO STA. 3+31, 48' LT.				70
LT. STA. 3+50			1	
STA. 4+19, 43' RT. TO STA. 4+30, 19' RT.				26
STA. 4+25, 48' LT. TO STA. 4+58, 42' LT.				34
STA. 4+45, 19' LT. TO STA. 4+58, 52' LT.				35
RT. STA. 4+87 TO RT. STA. 9+40	0.27	81		
STA. 5+04, 48' RT. TO STA. 5+14, 19' RT.				30
STA. 5+04, 48' RT. TO STA. 9+40, 28' RT.				432
LT. STA. 5+05 TO LT. STA. 9+40	0.40	120		
LT. STA. 5+50			1	
LT. STA. 8+50			1	
PRIVATE ENTRANCE, LT. STA. 3+00	0.13	39		
<b>TOTALS</b>	<b>1.40</b>	<b>420</b>	<b>4</b>	<b>1117</b>

RIGHT-OF-WAY MARKER SCHEDULE	
LOCATION	FUR. AND ERECT. RIGHT-OF-WAY MARKERS (EACH)
STA. 0-73.59, 37.18' RT.	1
STA. 0-23.10, 27.93' LT.	1
STA. 2+23.42, 50' LT.	1
STA. 2+57.80, 36.98' RT.	1
STA. 2+58.12, 45' LT.	1
STA. 4+25, 50' LT.	1
STA. 5+25, 65' LT.	1
STA. 6+33.64, 65' LT.	1
STA. 6+33.64, 50' RT.	1
STA. 8+00, 30' RT.	1
STA. 9+75, 30' LT.	1
<b>TOTALS</b>	<b>11</b>

EARTHWORK SCHEDULE					
LOCATION	EARTH EXCAVATION (UNADJUSTED) (CU YD)	CHANNEL EXCAVATION (CU YD)	EXCAVATION (ADJUSTED FOR 25% SHRINKAGE) (CU YD)	EMBANKMENT (FILL) (CU YD)	FURNISHED EXCAVATION (CU YD)
STA. 0+00 TO STA. 9+40 (INCLUDES PRIVATE ENTRANCE STA. 3+00 LT.)	870	650	1140	4432	3292
NORTH ABUTMENT CONE				120	120
<b>TOTALS</b>	<b>870</b>	<b>650</b>	<b>1140</b>	<b>4552</b>	<b>3412 *</b>

\* ASSUMES 100% CHANNEL EXCAVATION SUITABLE FOR EMBANKMENT CONSTRUCTION.

GUARD RAIL AND TRAFFIC BARRIER TERMINAL SCHEDULE					
LOCATION	GUARDRAIL REMOVAL (FOOT)	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS (FOOT)	TRAFFIC BARRIER TERMINAL, TYPE 5A (EACH)	TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT) (EACH)	TERMINAL MARKER - DIRECT APPLIED (EACH)
SE CORNER EXISTING BRIDGE	87.5				
NW CORNER EXISTING BRIDGE	87.5				
SE CORNER PROPOSED BRIDGE		12.5	1	1	1
SW CORNER PROPOSED BRIDGE			1	1	1
NE CORNER PROPOSED BRIDGE			1	1	1
NW CORNER PROPOSED BRIDGE		12.5	1	1	1
<b>TOTALS</b>	<b>175</b>	<b>25</b>	<b>4</b>	<b>4</b>	<b>4</b>

NOTE: GUARDRAIL REMOVAL LENGTH INCLUDES TRAFFIC BARRIER TERMINALS

GREENE & BRAIDFORD, INC.



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PLOT SCALE = 50.0000 / 1 in.	CHECKED - WCB	DATE - 6/17/09	REVISED -
PLOT DATE = 9/18/2009			

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.S. RTE. 454	SECTION 04-00070-00-BR	COUNTY SCHUYLER	TOTAL SHEETS 30	SHEET NO. 4
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 03499	
			BRS-0454(103)	

PLOT DRIVER = vbi\_t05700.ps LOCAL IDOT.plt to fg

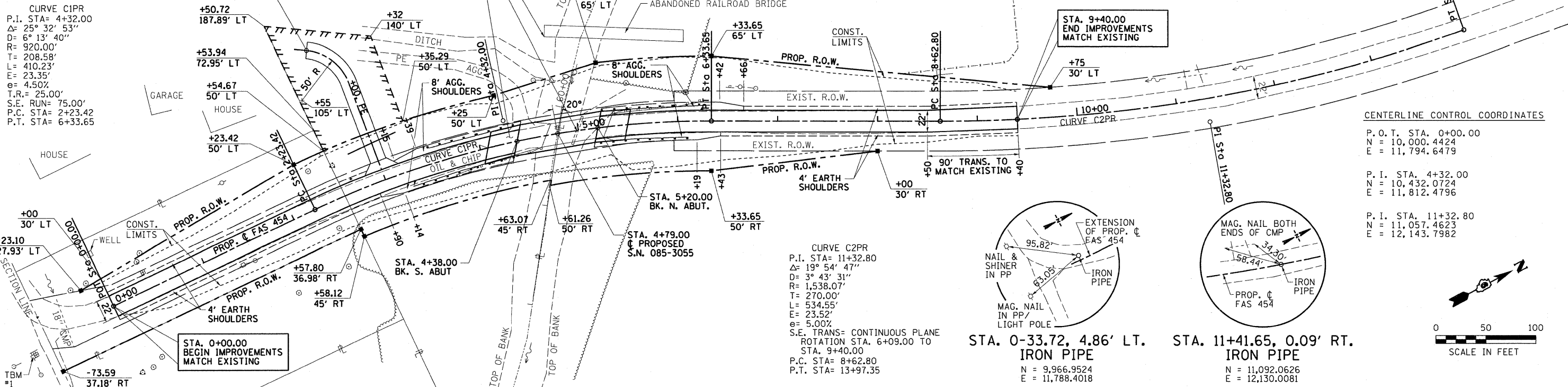
TBM #1: STA. 0-95, 11' RT.  
RR SPIKE IN POWER POLE  
ELEV = 446.75

TBM #2: CHISELED "□" IN S.E. WING  
ABANDONED RR BRIDGE  
ELEV = 452.01

CURVE C1PR  
P.I. STA= 4+32.00  
Δ= 25° 32' 53"  
D= 6° 13' 40"  
R= 920.00'  
T= 208.58'  
L= 410.23'  
E= 23.35'  
e= 4.50%  
T.R.= 25.00'  
S.E. RUN= 75.00'  
P.C. STA= 2+23.42  
P.T. STA= 6+33.65

EXISTING 2 SPAN BRIDGE  
CONCRETE DECK ON STEEL STRINGERS  
TIMBER PILE BENT PIER AND  
CLOSED TIMBER ABUTMENTS  
S.N. 085-3081

BRIDGE APPROACH  
SLAB (TYP.)  
SEE BRIDGE PLANS



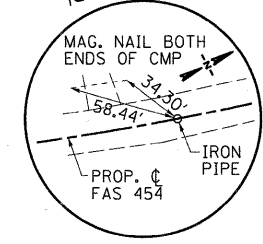
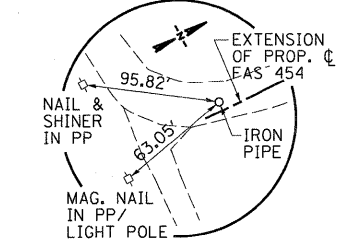
CENTERLINE CONTROL COORDINATES

P.O.T. STA. 0+00.00  
N = 10,000.4424  
E = 11,794.6479

P.I. STA. 4+32.00  
N = 10,432.0724  
E = 11,812.4796

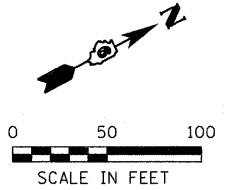
P.I. STA. 11+32.80  
N = 11,057.4623  
E = 12,143.7982

CURVE C2PR  
P.I. STA= 11+32.80  
Δ= 19° 54' 47"  
D= 3° 43' 31"  
R= 1,538.07'  
T= 270.00'  
L= 534.55'  
E= 23.52'  
e= 5.00%  
S.E. TRANS= CONTINUOUS PLANE  
ROTATION STA. 6+09.00 TO  
STA. 9+40.00  
P.C. STA= 8+62.80  
P.T. STA= 13+97.35



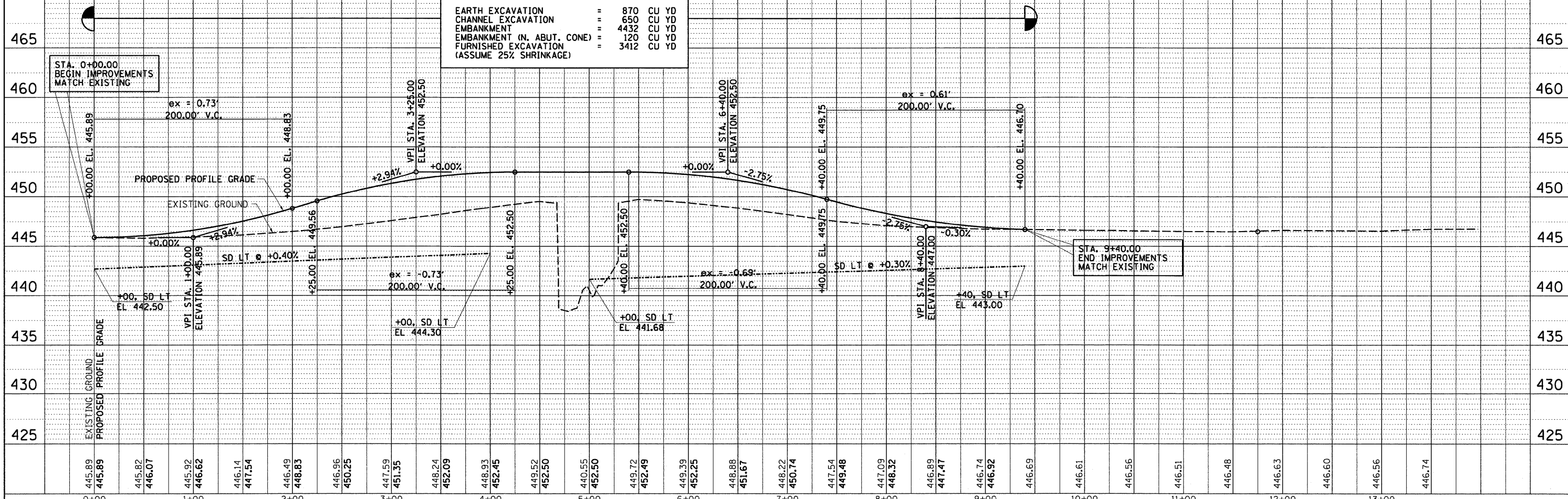
STA. 0-33.72, 4.86' LT. IRON PIPE  
N = 9,966.9524  
E = 11,788.4018

STA. 11+41.65, 0.09' RT. IRON PIPE  
N = 11,092.0626  
E = 12,130.0081



PLAN	DATE
BY	
CHECKED	
DATE	
NO.	

PROFILE	DATE
BY	
CHECKED	
DATE	
NO.	



EARTH EXCAVATION = 870 CU YD  
CHANNEL EXCAVATION = 650 CU YD  
EMBANKMENT = 4432 CU YD  
EMBANKMENT (N. ABUT. CONE) = 120 CU YD  
FURNISHED EXCAVATION (ASSUME 25% SHRINKAGE) = 3412 CU YD

FILE NAME	USER NAME = frankv
DESIGNED - DG	REVISED - 9/10/09 IDOT REVIEW
CHECKED - WCB	REVISED -
DRAWN - MDS	REVISED -
DATE - 9/30/08	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
454	04-00070-00-BR	SCHUYLER	30	5
CONTRACT NO. 93499				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT BRS-0454(103)				



G&B PROJECT: 07258  
PLOT DRIVER = VBI\_TDS700\_PS\_LOCAL\_IDOT.plt



# RIGHT OF WAY PLAT

SW 1/4, SECTION 23, T2N, R1E, 4th P.M.

PARCEL 1  
**VILLAGE OF BROWNING**

PROP. R. O. W. 0.5815 AC.  
EXIST. R. O. W. 0.3207 AC.  
NET R. O. W. 0.2608 AC.

PARCEL 4  
**VIRGIL & MARSHA HAMM**

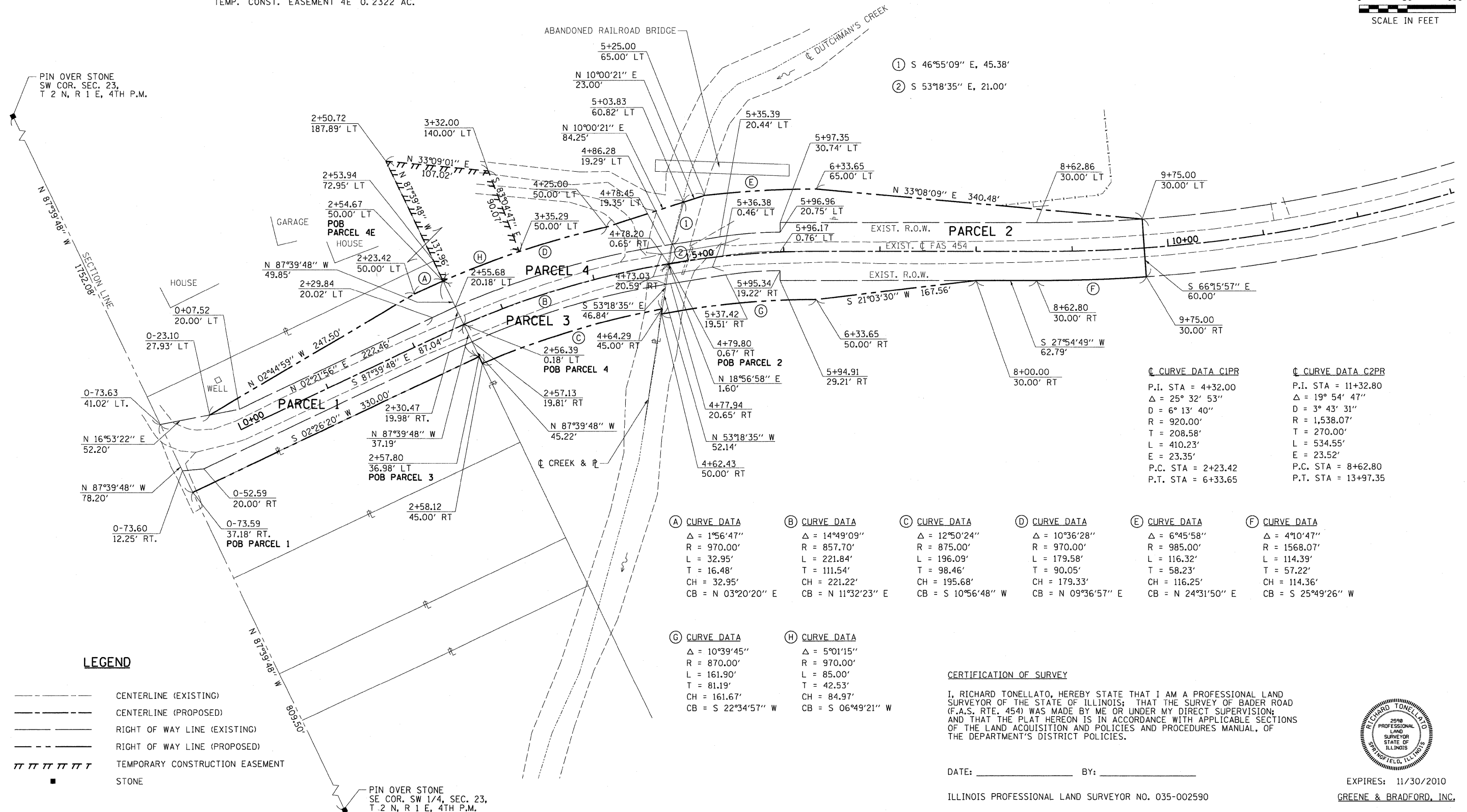
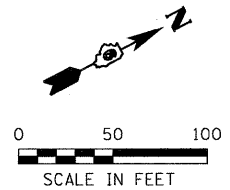
PROP. R. O. W. 0.2837 AC.  
EXIST. R. O. W. 0.1054 AC.  
NET R. O. W. 0.1783 AC.  
TEMP. CONST. EASEMENT 4E 0.2322 AC.

PARCEL 3  
**VIRGIL & MARSHA HAMM**

PROP. R. O. W. 0.2173 AC.  
EXIST. R. O. W. 0.0998 AC.  
NET R. O. W. 0.1175 AC.

PARCEL 2  
**BURTON FARMS INC.**

PROP. R. O. W. 1.0551 AC.  
EXIST. R. O. W. 0.6185 AC.  
NET R. O. W. 0.4366 AC.



**① CURVE DATA C1PR**

P.I. STA = 4+32.00  
Δ = 25° 32' 53"  
D = 6° 13' 40"  
R = 920.00'  
T = 208.58'  
L = 410.23'  
E = 23.35'  
P.C. STA = 2+23.42  
P.T. STA = 6+33.65

**② CURVE DATA C2PR**

P.I. STA = 11+32.80  
Δ = 19° 54' 47"  
D = 3° 43' 31"  
R = 1,538.07'  
T = 270.00'  
L = 534.55'  
E = 23.52'  
P.C. STA = 8+62.80  
P.T. STA = 13+97.35

**A CURVE DATA**

Δ = 1° 56' 47"  
R = 970.00'  
L = 32.95'  
T = 16.48'  
CH = 32.95'  
CB = N 03° 20' 20" E

**B CURVE DATA**

Δ = 14° 49' 09"  
R = 857.70'  
L = 221.84'  
T = 111.54'  
CH = 221.22'  
CB = N 11° 32' 23" E

**C CURVE DATA**

Δ = 12° 50' 24"  
R = 875.00'  
L = 196.09'  
T = 98.46'  
CH = 195.68'  
CB = S 10° 56' 48" W

**D CURVE DATA**

Δ = 10° 36' 28"  
R = 970.00'  
L = 179.58'  
T = 90.05'  
CH = 179.33'  
CB = N 09° 36' 57" E

**E CURVE DATA**

Δ = 6° 45' 58"  
R = 985.00'  
L = 116.32'  
T = 58.23'  
CH = 116.25'  
CB = N 24° 31' 50" E

**F CURVE DATA**

Δ = 4° 10' 47"  
R = 1568.07'  
L = 114.39'  
T = 57.22'  
CH = 114.36'  
CB = S 25° 49' 26" W

**G CURVE DATA**

Δ = 10° 39' 45"  
R = 870.00'  
L = 161.90'  
T = 81.19'  
CH = 161.67'  
CB = S 22° 34' 57" W

**H CURVE DATA**

Δ = 5° 01' 15"  
R = 970.00'  
L = 85.00'  
T = 42.53'  
CH = 84.97'  
CB = S 06° 49' 21" W

**CERTIFICATION OF SURVEY**

I, RICHARD TONELLATO, HEREBY STATE THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS; THAT THE SURVEY OF BADER ROAD (F.A.S. RTE. 454) 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: 11/30/2010  
GREENE & BRADFORD, INC.

FILE NAME J:\07258\CADD\CAD\Drawings\07258-sht-rows\m.dgn	USER NAME = frankv	DESIGNED - DG	REVISED -	<b>RIGHT OF WAY PLANS</b>		F.A.S. RTE. 454	SECTION 04-00070-00-BR	COUNTY SCHUYLER	TOTAL SHEETS 30	SHEET NO. 7	
G&B PROJECT: 07258	PLOT SCALE = 50.0000' / in.	DRAWN - MDS	REVISED -			PROJECT BRS-0454(103)	JOB NO.	CONTRACT NO. 93499			
PLOT DRIVER = V81.TDS700.PS.LOCAL.IDOT.plt	PLOT DATE = 9/18/2009	CHECKED - RT	REVISED -	SCALE: 1"=50'	SHEET NO. 1 OF 2 SHEETS	STA. 0-73.63	TO STA. 9+75.00	FED. ROAD DIST. NO. ILLINOIS	FED. AID PROJECT BRS-0454(103)		
		DATE - 7/06/09	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION							

# RIGHT OF WAY PLAT

## LEGAL DESCRIPTIONS

### PARCEL 1

PART OF OUTLOT 5 OF ASSESSOR'S SUBDIVISION OF THE SOUTHWEST QUARTER OF SECTION 23, TOWNSHIP 2 NORTH, RANGE 1 EAST OF THE FOURTH PRINCIPAL MERIDIAN; DESCRIBED MORE PARTICULARLY AS FOLLOWS:

COMMENCING AT AN IRON PIN OVER A STONE MARKING THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF THE AFOREMENTIONED SECTION 23, THENCE NORTH 87 DEGREES 39 MINUTES 48 SECONDS WEST ALONG THE SECTION LINE A DISTANCE OF 809.50 FEET TO THE TRUE POINT OF BEGINNING, THENCE CONTINUING NORTH 87 DEGREES 39 MINUTES 48 SECONDS WEST ALONG THE SECTION LINE A DISTANCE OF 78.20 FEET, THENCE NORTH 16 DEGREES 53 MINUTES 22 SECONDS EAST, 52.20 FEET, THENCE NORTH 02 DEGREES 44 MINUTES 59 SECONDS WEST, 247.50 FEET TO A POINT MARKING THE BEGINNING OF A 970.00 FOOT RADIUS, TANGENT CURVE TO THE RIGHT, THENCE NORTHERLY 32.95 FEET ALONG SAID CURVE HAVING A LONG CHORD THAT BEARS NORTH 03 DEGREES 20 MINUTES 20 SECONDS EAST FOR A DISTANCE OF 32.95 FEET TO A POINT ON THE NORTH LINE OF THE AFOREMENTIONED OUTLOT 5, THENCE SOUTH 87 DEGREES 39 MINUTES 48 SECONDS EAST ALONG SAID NORTH LINE A DISTANCE OF 87.04 FEET, THENCE SOUTH 02 DEGREES 26 MINUTES 20 SECONDS WEST 330.00 FEET TO THE TRUE POINT OF BEGINNING. SAID PARCEL CONTAINS 0.5815 ACRE, MORE OR LESS OF WHICH 0.3207 ACRE IS WITHIN THE EXISTING RIGHT-OF-WAY OF COUNTY ROAD, ALL IN THE COUNTY OF SCHUYLER, STATE OF ILLINOIS.

### PARCEL 2

PART OF THE SOUTHWEST QUARTER OF SECTION 23, TOWNSHIP 2 NORTH, RANGE 1 EAST OF THE FOURTH PRINCIPAL MERIDIAN; DESCRIBED MORE PARTICULARLY AS FOLLOWS:

COMMENCING AT AN IRON PIN OVER A STONE MARKING THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF THE AFOREMENTIONED SECTION 23, THENCE NORTH 87 DEGREES 39 MINUTES 48 SECONDS WEST ALONG THE SECTION LINE A DISTANCE OF 809.50 FEET, THENCE NORTH 02 DEGREES 26 MINUTES 20 SECONDS EAST 330.00 FEET, THENCE NORTH 87 DEGREES 39 MINUTES 48 SECONDS WEST 37.19 FEET TO THE CENTER OF A TOWNSHIP ROAD, THENCE NORTHEASTERLY 221.84 FEET ALONG SAID CENTER OF A TOWNSHIP ROAD WITH A 857.70 FOOT RADIUS CURVE TO THE RIGHT HAVING A LONG CHORD THAT BEARS NORTH 11 DEGREES 32 MINUTES 23 SECONDS EAST FOR A DISTANCE OF 221.22 FEET, THENCE NORTH 18 DEGREES 56 MINUTES 58 SECONDS EAST ALONG SAID CENTER OF A TOWNSHIP ROAD A DISTANCE OF 1.60 FEET TO THE CENTER OF DUTCHMAN'S CREEK, BEING THE TRUE POINT OF BEGINNING, THENCE NORTH 53 DEGREES 18 MINUTES 35 SECONDS WEST 21.00 FEET ALONG SAID CREEK, THENCE NORTH 46 DEGREES 55 MINUTES 09 SECONDS WEST 45.38 FEET ALONG SAID CREEK, THENCE NORTH 10 DEGREES 00 MINUTES 21 SECONDS EAST 23.00 FEET TO A POINT MARKING THE BEGINNING OF A 985.00 FOOT RADIUS, NON-TANGENT CURVE TO THE RIGHT, THENCE NORTHEASTERLY 116.32 FEET ALONG SAID CURVE HAVING A LONG CHORD THAT BEARS NORTH 24 DEGREES 31 MINUTES 50 SECONDS EAST FOR A DISTANCE OF 116.25 FEET, THENCE NORTH 33 DEGREES 08 MINUTES 09 SECONDS EAST 340.48 FEET, THENCE SOUTH 66 DEGREES 15 MINUTES 57 SECONDS EAST 60.00 FEET TO A POINT MARKING THE BEGINNING OF A 1,568.07 FOOT RADIUS, NON-TANGENT CURVE TO THE RIGHT, THENCE SOUTHWESTERLY 114.39 FEET ALONG SAID CURVE HAVING A LONG CHORD THAT BEARS SOUTH 25 DEGREES 49 MINUTES 26 SECONDS WEST FOR A DISTANCE OF 114.36 FEET, THENCE SOUTH 27 DEGREES 54 MINUTES 49 SECONDS WEST 62.79 FEET, THENCE SOUTH 21 DEGREES 03 MINUTES 30 SECONDS WEST 167.56 FEET TO A POINT MARKING THE BEGINNING OF A 870.00 FOOT RADIUS NON-TANGENT CURVE TO THE LEFT, THENCE SOUTHWESTERLY 161.90 FEET ALONG SAID CURVE HAVING A LONG CHORD THAT BEARS SOUTH 22 DEGREES 34 MINUTES 57 SECONDS WEST FOR A DISTANCE OF 161.67 FEET TO THE CENTER OF DUTCHMAN'S CREEK, THENCE NORTH 53 DEGREES 18 MINUTES 35 SECONDS WEST 52.14 FEET TO THE TRUE POINT OF BEGINNING. SAID PARCEL CONTAINS 1.0551 ACRES, MORE OR LESS OF WHICH 0.6185 ACRE IS WITHIN THE EXISTING RIGHT-OF-WAY OF COUNTY ROAD, ALL IN THE COUNTY OF SCHUYLER, STATE OF ILLINOIS.

### PARCEL 3

PART OF THE SOUTHWEST QUARTER OF SECTION 23, TOWNSHIP 2 NORTH, RANGE 1 EAST OF THE FOURTH PRINCIPAL MERIDIAN; DESCRIBED MORE PARTICULARLY AS FOLLOWS:

COMMENCING AT AN IRON PIN OVER A STONE MARKING THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF THE AFOREMENTIONED SECTION 23, THENCE NORTH 87 DEGREES 39 MINUTES 48 SECONDS WEST ALONG THE SECTION LINE A DISTANCE OF 809.50 FEET, THENCE NORTH 02 DEGREES 26 MINUTES 20 SECONDS EAST 330.00 FEET TO THE TRUE POINT OF BEGINNING, THENCE NORTH 87 DEGREES 39 MINUTES 48 SECONDS WEST 37.19 FEET TO THE CENTER OF A TOWNSHIP ROAD, THENCE NORTHEASTERLY 221.84 FEET ALONG SAID CENTER OF A TOWNSHIP ROAD WITH A 857.70 FOOT RADIUS, NON-TANGENT CURVE TO THE RIGHT HAVING A LONG CHORD THAT BEARS NORTH 11 DEGREES 32 MINUTES 23 SECONDS EAST FOR A DISTANCE OF 221.22 FEET, THENCE NORTH 18 DEGREES 56 MINUTES 58 SECONDS EAST A DISTANCE OF 1.60 FEET, THENCE SOUTH 53 DEGREES 18 MINUTES 35 SECONDS EAST ALONG THE CENTER OF A CREEK A DISTANCE OF 46.84 FEET, THENCE SOUTHWESTERLY 196.09 FEET ALONG A 875.00 FOOT RADIUS, NON-TANGENT CURVE TO THE LEFT HAVING A LONG CHORD THAT BEARS SOUTH 10 DEGREES 56 MINUTES 48 SECONDS WEST FOR A DISTANCE OF 195.68 FEET, THENCE NORTH 87 DEGREES 39 MINUTES 48 SECONDS WEST 8.03 FEET TO THE TRUE POINT OF BEGINNING. SAID PARCEL CONTAINS 0.2173 ACRE, MORE OR LESS OF WHICH 0.0998 ACRE IS WITHIN THE EXISTING RIGHT-OF-WAY OF COUNTY ROAD, ALL IN THE COUNTY OF SCHUYLER, STATE OF ILLINOIS.

### PARCEL 4

PART OF THE SOUTHWEST QUARTER OF SECTION 23, TOWNSHIP 2 NORTH, RANGE 1 EAST OF THE FOURTH PRINCIPAL MERIDIAN; DESCRIBED MORE PARTICULARLY AS FOLLOWS:

COMMENCING AT AN IRON PIN OVER A STONE MARKING THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF THE AFOREMENTIONED SECTION 23, THENCE NORTH 87 DEGREES 39 MINUTES 48 SECONDS WEST ALONG THE SECTION LINE A DISTANCE OF 809.50 FEET, THENCE NORTH 02 DEGREES 26 MINUTES 20 SECONDS EAST 330.00 FEET, THENCE NORTH 87 DEGREES 39 MINUTES 48 SECONDS WEST 37.19 FEET TO THE CENTER OF A TOWNSHIP ROAD BEING THE TRUE POINT OF BEGINNING, THENCE NORTH 87 DEGREES 39 MINUTES 48 SECONDS WEST 49.85 FEET TO A POINT MARKING THE BEGINNING OF A 970.00 FOOT RADIUS, NON-TANGENT CURVE TO THE RIGHT, THENCE NORTHEASTERLY 179.58 FEET ALONG SAID CURVE HAVING A LONG CHORD THAT BEARS NORTH 09 DEGREES 36 MINUTES 57 SECONDS EAST FOR A DISTANCE OF 179.33 FEET, THENCE NORTH 10 DEGREES 00 MINUTES 21 SECONDS EAST 84.25 FEET TO THE CENTER OF DUTCHMAN'S CREEK, THENCE SOUTH 46 DEGREES 55 MINUTES 09 SECONDS EAST 45.38 FEET ALONG THE CENTER OF SAID CREEK, THENCE SOUTH 53 DEGREES 18 MINUTES 35 SECONDS EAST 21.00 FEET ALONG THE CENTER OF SAID CREEK TO THE CENTER OF A TOWNSHIP ROAD, THENCE SOUTH 18 DEGREES 56 MINUTES 58 SECONDS WEST A DISTANCE OF 1.80 FEET, THENCE SOUTHWESTERLY 221.84 FEET ALONG SAID CENTER OF A TOWNSHIP ROAD WITH A 857.70 FOOT RADIUS, NON-TANGENT CURVE TO THE LEFT HAVING A LONG CHORD THAT BEARS SOUTH 11 DEGREES 32 MINUTES 23 SECONDS WEST FOR A DISTANCE OF 221.22 FEET TO THE TRUE POINT OF BEGINNING. SAID PARCEL CONTAINS 0.2837 ACRES, MORE OR LESS OF WHICH 0.1054 ACRE IS WITHIN THE EXISTING RIGHT-OF-WAY OF COUNTY ROAD, ALL IN THE COUNTY OF SCHUYLER, STATE OF ILLINOIS.

### PARCEL 4E

PART OF THE SOUTHWEST QUARTER OF SECTION 23, TOWNSHIP 2 NORTH, RANGE 1 EAST OF THE FOURTH PRINCIPAL MERIDIAN; DESCRIBED MORE PARTICULARLY AS FOLLOWS:

COMMENCING AT AN IRON PIN OVER A STONE MARKING THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF THE AFOREMENTIONED SECTION 23, THENCE NORTH 87 DEGREES 39 MINUTES 48 SECONDS WEST ALONG THE SECTION LINE A DISTANCE OF 809.50 FEET, THENCE NORTH 02 DEGREES 26 MINUTES 20 SECONDS EAST 330.00 FEET, THENCE NORTH 87 DEGREES 39 MINUTES 48 SECONDS WEST 87.04 FEET TO THE TRUE POINT OF BEGINNING, THENCE NORTH 87 DEGREES 39 MINUTES 48 SECONDS WEST 137.96 FEET, THENCE NORTH 33 DEGREES 09 MINUTES 01 SECONDS EAST 107.02 FEET, THENCE SOUTH 83 DEGREES 04 MINUTES 47 SECONDS EAST 90.07 FEET TO A POINT MARKING THE BEGINNING OF A 970.00 FOOT RADIUS, NON-TANGENT CURVE TO THE LEFT, THENCE SOUTHWESTERLY 85.00 FEET ALONG SAID CURVE HAVING A LONG CHORD THAT BEARS SOUTH 08 DEGREES 49 MINUTES 21 SECONDS WEST FOR A DISTANCE OF 84.97 FEET TO THE TRUE POINT OF BEGINNING. SAID PARCEL CONTAINS 0.2322 ACRE, MORE OR LESS, ALL IN THE COUNTY OF SCHUYLER, 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 BADER ROAD (F.A.S. RTE. 454) 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: 11/30/2010

GREENE & BRADFORD, INC.

GREENE & BRADFORD, INC.  
OF SPRINGFIELD  
SURVEYING & ENGINEERING  
1001 N. WASHINGTON ST., SUITE 100  
SPRINGFIELD, ILLINOIS 62761  
TEL: 217-223-1111 FAX: 217-223-1112  
WWW.GREENE-AND-BRADFORD.COM



FILE NAME J:\07258\CADD\CADsheets\07258-shr-roapl.dgn	USER NAME = frankv	DESIGNED - DG	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RIGHT OF WAY PLANS</b>			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 50.0000' / in.	CHECKED - RT	DRAWN - MDS	REVISED -		PROJECT BRS-0454(103)	454	04-00070-00-BR	SCHUYLER	30	8		
PLOT DATE = 9/18/2009	DATE = 7/06/09	REVISED -	REVISED -		SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	<b>CONTRACT NO. 03499</b>				
G&B PROJECT: 07258					SCALE: 1"=50'	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT BRS-0454(103)				

PLOT DRIVER = V81\_T05700\_PS\_LOCAL\_IDOT.plt of g



Benchmarks: BM #1 Sta. 0+53, 30' Rt. RR Spike in Power Pole, Elev. = 446.75  
 BM #2 Chiseled "□" in S.E. Wing Abandoned RR Bridge, Elev. = 452.01

Existing Structure: S.N. 085-3081, Originally built in 1935 as section 6-B-MFT. The original structure consisted of a two-span reinforced concrete deck with steel WF beams on closed timber abutments and a timber pile bent pier. The back to back abutment length is 62'-0" and out to out deck width is 23'-0".

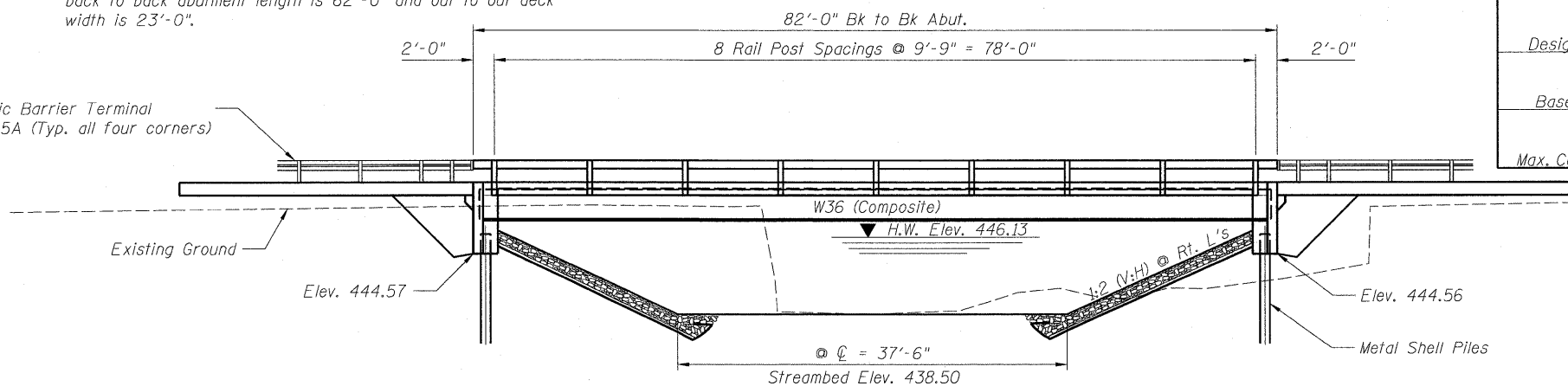
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

WATERWAY INFORMATION

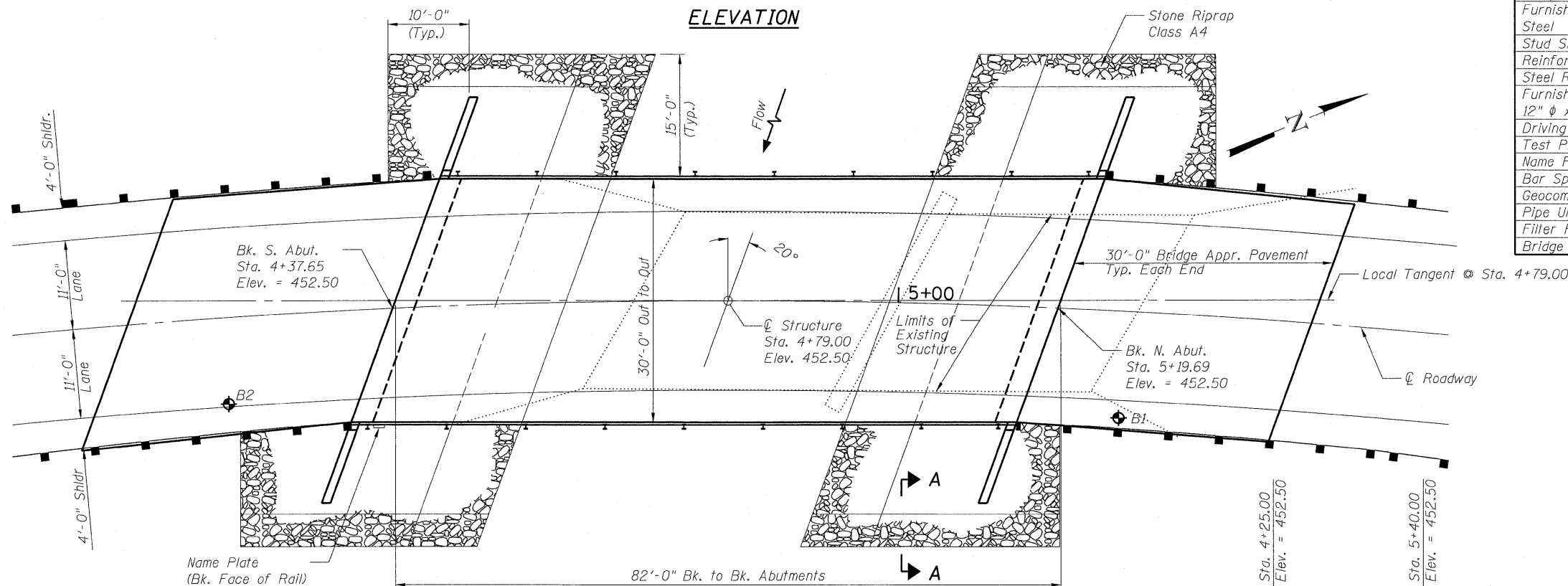
Design	Freq. Year	Discharge (cfs)	Opening (sq ft)		Natural Head - (ft.)		Headwater Elevation			
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.		
30	Bridge	1806	1806	329.7	402.6	446.13	0.34	0.28	446.47	446.41
		0	0	0.0	0.0					
		1806	1806	329.7	402.6	446.13	0.34	0.28	446.47	446.41
100	Base	2302.5	2302.5	332.2	410.8	446.25	0.59	0.47	446.84	446.72
		179.5	179.5	104.5	104.5					
		2482	2482	436.7	515.3	446.25	0.59	0.47	446.84	446.72
Max. Calc.	500	3035.4	3035.4	344.6	425.9	446.47	1.18	0.90	447.65	447.37
		394.6	394.6	187.0	187.0					
		3430	3430	531.6	612.9	446.47	1.18	0.90	447.65	447.37

No Salvage

Traffic Barrier Terminal  
 Type 5A (Typ. all four corners)



ELEVATION



PLAN

Note: See sheet 2 of 17 for section A-A.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu Yd	-	116.4	116.4
Stone Riprap, Class A4	Ton	-	315	315
Removal of Existing Structures	Each	-	-	1
Structure Excavation	Cu Yd	-	118	118
Protective Coat	Sq Yd	300	-	300
Concrete Structures	Cu Yd	-	31.2	31.2
Concrete Superstructure	Cu Yd	88.8	-	88.8
Bridge Deck Grooving	Sq Yd	274	-	274
Furnishing and Erecting Structural Steel	L Sum	1	-	1
Stud Shear Connectors	Each	930	-	930
Reinforcement Bars, Epoxy Coated	Pound	17,200	4,400	21,600
Steel Railing, Type S1	Foot	164	-	164
Furnishing Metal Shell Piles	Foot	-	410	410
12" $\phi$ x 0.25"	Foot	-	410	410
Driving Piles	Foot	-	410	410
Test Pile Metal Shells	Each	-	1	1
Name Plates	Each	1	-	1
Bar Splicers	Each	62	-	62
Geocomposite Wall Drain	Sq Yd	-	66.0	66.0
Pipe Underdrains for Structure, 4"	Foot	-	132	132
Filler Fabric	Sq Yd	-	475	475
Bridge Approach Pavement (Special)	Sq Yd	200	-	200

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications with 2008 Interims

DESIGN STRESSES

FIELD UNITS

$f'_c$  = 3,500 psi  
 $f_y$  = 60,000 psi (Reinforcement)  
 $f_y$  = 50,000 psi (M270 Grade 50 Structural Steel)

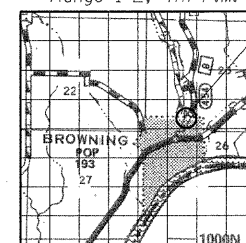
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1  
 Bedrock Acceleration Coefficient (A) = 0.046g  
 Site Coefficient (S) = 1.0

PROFILE GRADE

(Along  $\phi$  Roadway)

Range 1 E, 4th P.M.



LOCATION SKETCH

GENERAL PLAN AND ELEVATION

F.A.S. ROUTE 454 OVER

DUTCHMAN'S CREEK

SECTION 04-00070-00-BR

SCHUYLER COUNTY

STATION 4+79.00

S.N. 085-3055

DESIGN SCOUR ELEVATION	N & S Abut. 444.56
------------------------	--------------------



DESIGNED	NI EWINSKI
CHECKED	TRELLO
DRAWN	VERENSKI
CHECKED	TRELLO



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 A.A.S.H.T.O. L.R.F.D. Bridge Design Specifications.

Expires: 11/30/10

*Michael J. Trello*  
 Signed

9/18/09  
 Dated

NAME PLATE

See Std. 515001

DUTCHMAN'S CREEK  
 BUILT 20 BY  
 SCHUYLER COUNTY  
 SECTION 04-00070-00-BR  
 F.A.S. RTE 454 STATION 4+79.00  
 S.N. 085-3055  
 LOADING HL-93

SHEET NO. 1	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	454	04-00070-00-BR	SCHUYLER	30	9
			CONTRACT NO. 93499		
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES**

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts 3/4" in.  $\phi$ , holes 5/8" in.  $\phi$ , unless otherwise noted.

Calculated weight of Structural Steel = 71,660 lbs.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

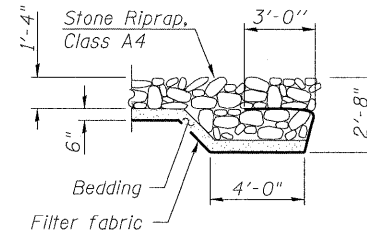
Reinforcement bars designated (E) shall be epoxy coated.

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Interstate Green, Munsell No. 7.5G 4/8. See Special Provision for "Cleaning and Painting New Metal Structures".

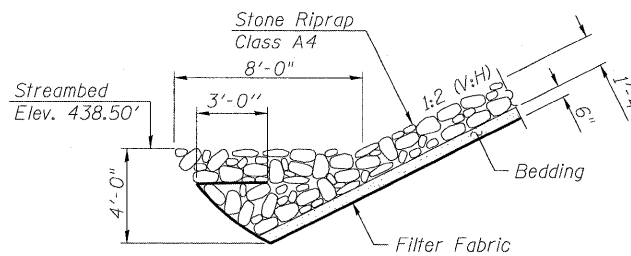
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

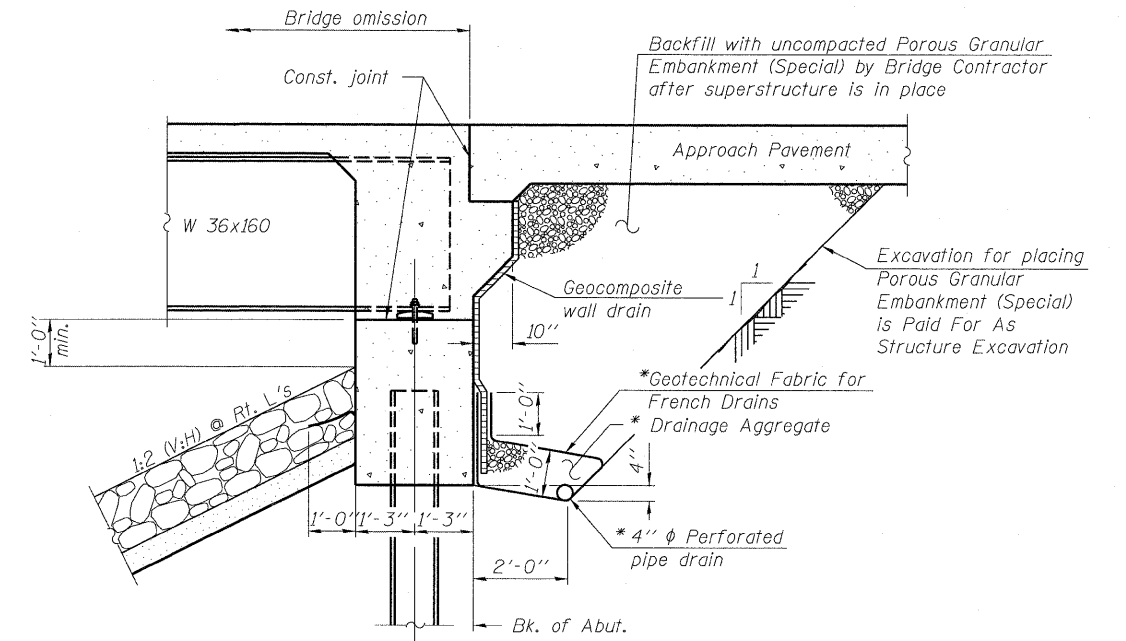
IDNR/OWR has issued permit DS2008073 for the construction of this project.



**SECTION A-A**



**STONE RIPRAP ANCHOR DETAIL**



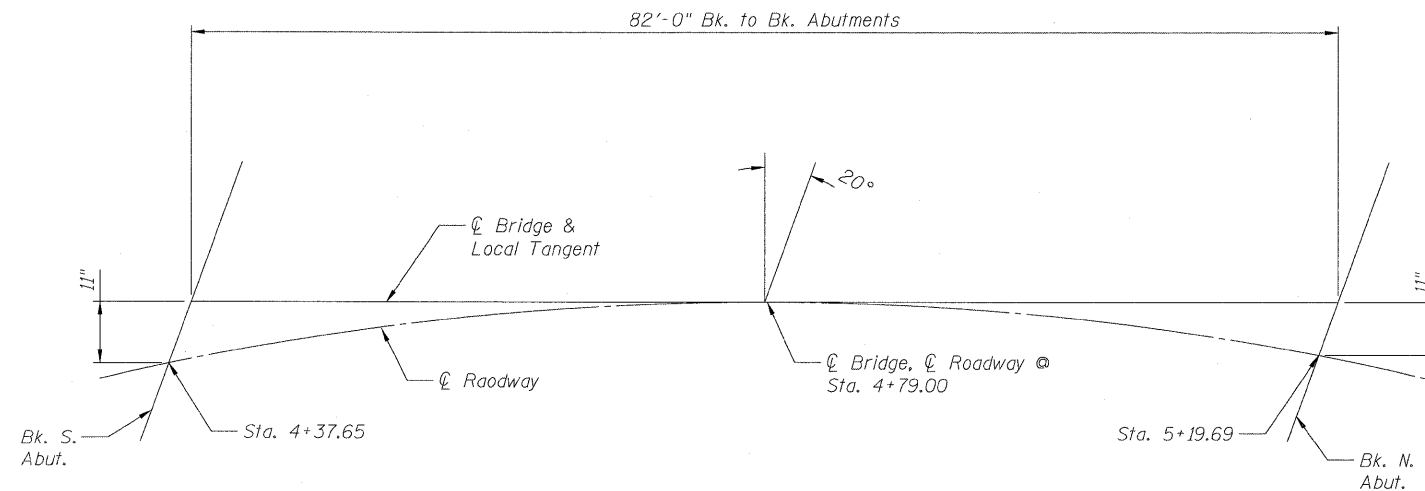
**SECTION THRU INTEGRAL ABUTMENT**

(Horiz. dim. @ Rt. L's)

Note:

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See article 601.05 of the Standard Specifications and Highway Standard 601101).

\* Included in the cost of Pipe Underdrains for Structures, 4"



**OFFSET SKETCH**

**CURVE DATA**

PI Sta. = 4+32.00  
 $\Delta = 25^{\circ}32'53''$   
 $D = 6^{\circ}13'40''$   
 $T = 208.58'$   
 $L = 410.23'$   
 $R = 920.00'$   
 $E = 23.35'$   
 $e = 4.50\%$   
 $TR = 25.00'$   
 $SE Run = 75.00'$   
 $PC Sta. = 2+23.42$   
 $PT Sta. = 6+33.65$

**INDEX OF SHEETS**

- 1 General Plan and Elevation
- 2 General Data
- 3-4 Top of Slab Elevations
- 5 Superstructure
- 6 Superstructure Details
- 7 Steel Railing, Type S-1
- 8 Structural Steel Details
- 9 North Abutment
- 10 South Abutment
- 11-12 Bridge Approach Slab Details
- 13 Metal Shell Piles
- 14 Anchor Bolt Details
- 15 Bar Splicer Assembly Details
- 16-17 Soil Boring Logs

**GENERAL DATA**  
**F.A.S. ROUTE 454**  
**SECTION 04-00070-00-BR**  
**SCHUYLER COUNTY**  
**STATION 4+79.00**  
**S.N. 085-3055**

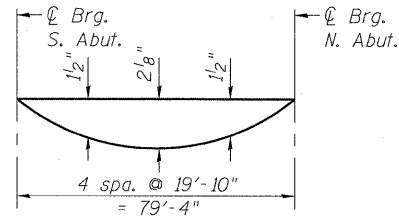


DESIGNED	NIWINSKI
CHECKED	TRELLO
DRAWN	VERENSKI
CHECKED	TRELLO

G&B PROJECT: - PLOT DRIVER = V8.T0S700.PS.LOCAL.ID001.pltcf  
 FILE NAME = J:\07258\CADD\CAD\Sheets\SN 085-3055\0853055-07258-Sht-Gen Data.dgn  
 PLOT DATE = 9/18/2009 PLOT SCALE = 4:2.0000 "/>

SHEET NO. 2	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	454	04-00070-00-BR	SCHUYLER	30	10
FED. ROAD DIST. NO. _			ILLINOIS FED. AID PROJECT		
			CONTRACT NO. 93499		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

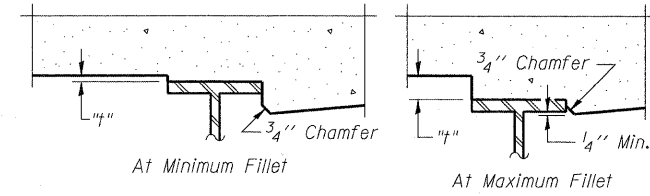


**DEAD LOAD DEFLECTION DIAGRAM**

(Includes weight of concrete only.)

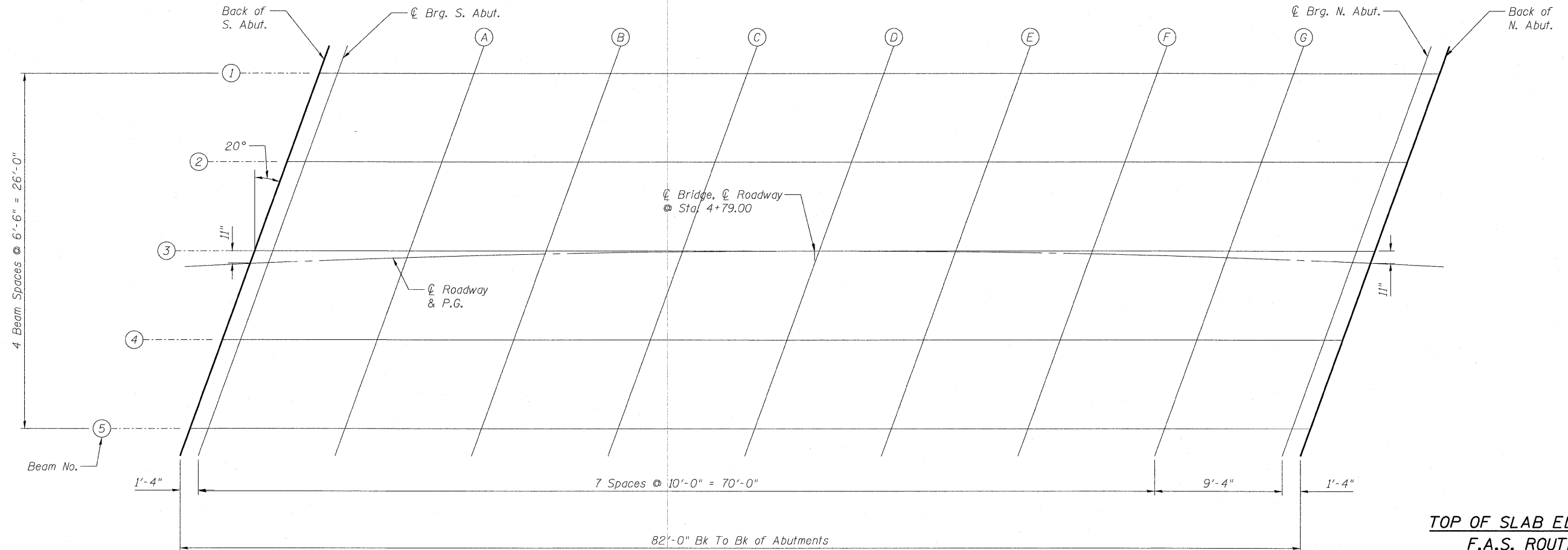
Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet 4 of 17.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet 4 of 17, minus slab thickness, equals the fillet heights "t" above top flange of beams.

**FILLET HEIGHTS**



**PLAN**

**TOP OF SLAB ELEVATIONS**  
**F.A.S. ROUTE 454**  
**SECTION 04-00070-00-BR**  
**SCHUYLER COUNTY**  
**STATION 4+79.00**  
**S.N. 085-3055**



DESIGNED **NIWINSKI**  
CHECKED **TRELLO**  
DRAWN **VERENSKI**  
CHECKED **TRELLO**

SHEET NO. 3 17 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	454	04-00070-00-BR	SCHUYLER	30	11
FED. ROAD DIST. NO. _			ILLINOIS FED. AID PROJECT		
CONTRACT NO. 93499					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**BEAM 1**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. Of S. Abut.	04+43.25	-13.70	453.117	453.117
CL Brg. S. Abut	04+44.57	-13.65	453.114	453.114
A	04+54.42	-13.33	453.100	453.170
B	04+64.27	-13.12	453.090	453.218
C	04+74.13	-13.01	453.085	453.250
D	04+83.99	-13.01	453.085	453.264
E	04+93.85	-13.12	453.090	453.254
F	05+03.71	-13.34	453.100	453.224
G	05+13.56	-13.66	453.115	453.180
CL Brg. N. Abut.	05+22.75	-14.06	453.133	453.133
Bk. Of N. Abut.	05+24.06	-14.12	453.135	453.135

**BEAM 2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. Of S. Abut.	04+40.66	-7.31	452.829	452.829
CL Brg. S. Abut	04+41.98	-7.25	452.826	452.826
A	04+51.90	-6.90	452.811	452.881
B	04+61.82	-6.66	452.800	452.927
C	04+71.75	-6.53	452.794	452.959
D	04+81.68	-6.50	452.793	452.971
E	04+91.61	-6.59	452.797	452.960
F	05+01.54	-6.78	452.805	452.929
G	05+11.46	-7.08	452.819	452.884
CL Brg. N. Abut.	05+20.71	-7.45	452.835	452.835
Bk. Of N. Abut.	05+22.03	-7.51	452.838	452.838

**BEAM 3**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. Of S. Abut.	04+38.03	-0.91	452.541	452.541
CL Brg. S. Abut	04+39.36	-0.85	452.538	452.538
A	04+49.34	-0.48	452.522	452.592
B	04+59.34	-0.21	452.509	452.637
C	04+69.33	-0.05	452.502	452.667
D	04+79.33	0.00	452.500	452.678
E	04+89.33	-0.06	452.503	452.666
F	04+99.33	-0.22	452.510	452.634
G	05+09.32	-0.50	452.523	452.588
CL Brg. N. Abut.	05+18.64	-0.85	452.538	452.538
Bk. Of N. Abut.	05+19.97	-0.91	452.541	452.541

**CENTERLINE AND P.G.**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. Of S. Abut.	04+37.65	0.00	452.500	452.500
CL Brg. S. Abut	04+39.00	0.00	452.500	452.500
A	04+49.15	0.00	452.500	452.570
B	04+59.25	0.00	452.500	452.628
C	04+69.31	0.00	452.500	452.665
D	04+79.33	0.00	452.500	452.678
E	04+89.31	0.00	452.500	452.663
F	04+99.25	0.00	452.500	452.624
G	05+09.16	0.00	452.500	452.565
CL Brg. N. Abut.	05+18.37	0.00	452.500	452.500
Bk. Of N. Abut.	05+19.69	0.00	452.500	452.500

**BEAM 4**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. Of S. Abut.	04+35.36	5.47	452.254	452.254
CL Brg. S. Abut	04+36.70	5.53	452.251	452.251
A	04+46.75	5.94	452.233	452.303
B	04+56.82	6.23	452.220	452.347
C	04+66.88	6.42	452.211	452.376
D	04+76.95	6.50	452.208	452.386
E	04+87.02	6.47	452.209	452.372
F	04+97.09	6.32	452.216	452.340
G	05+07.16	6.07	452.227	452.292
CL Brg. N. Abut.	05+16.55	5.74	452.242	452.242
Bk. Of N. Abut.	05+17.89	5.68	452.244	452.244

**BEAM 5**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. Of S. Abut.	04+32.65	11.85	451.967	451.967
CL Brg. S. Abut	04+34.00	11.91	451.964	451.964
A	04+44.13	12.35	451.944	452.014
B	04+54.26	12.67	451.930	452.057
C	04+64.40	12.89	451.920	452.085
D	04+74.54	12.99	451.915	452.094
E	04+84.68	12.98	451.916	452.079
F	04+94.82	12.87	451.921	452.045
G	05+04.96	12.64	451.931	451.996
CL Brg. N. Abut.	05+14.42	12.33	451.945	451.945
Bk. Of N. Abut.	05+15.77	12.28	451.947	451.947

**TOP OF SLAB ELEVATIONS**  
**F.A.S. ROUTE 454**  
**SECTION 04-00070-00-BR**  
**SCHUYLER COUNTY**  
**STATION 4+79.00**  
**S.N. 085-3055**



DESIGNED	NIEWINSKI
CHECKED	TRELLO
DRAWN	VERENSKI
CHECKED	TRELLO

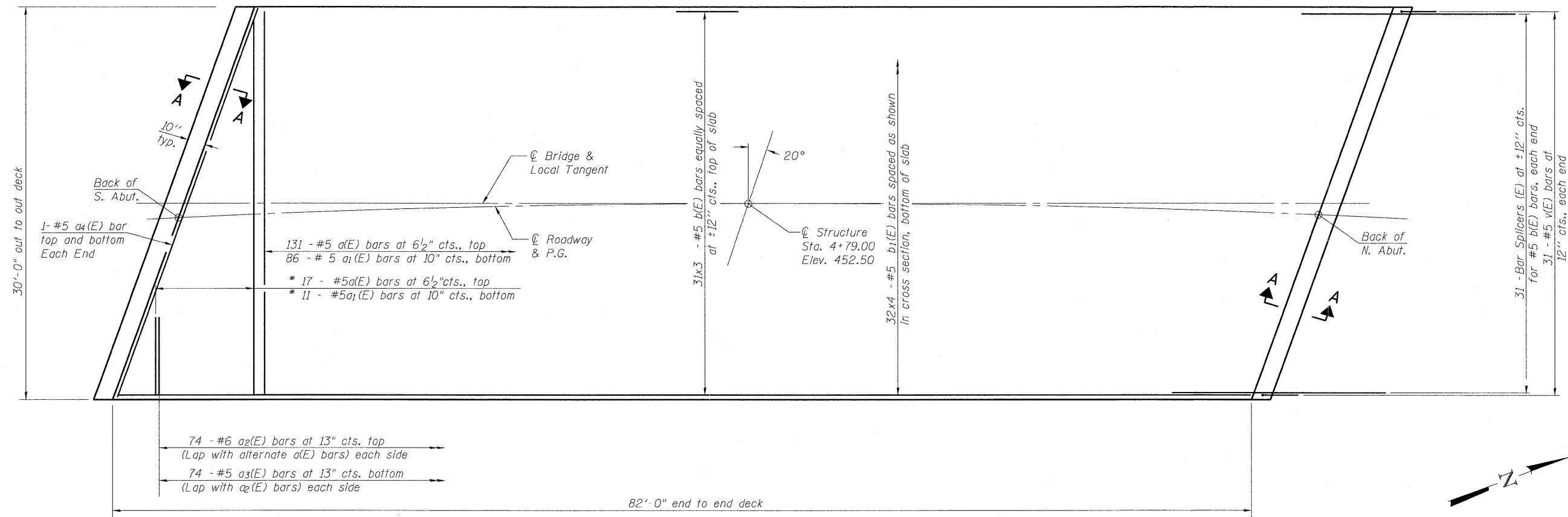
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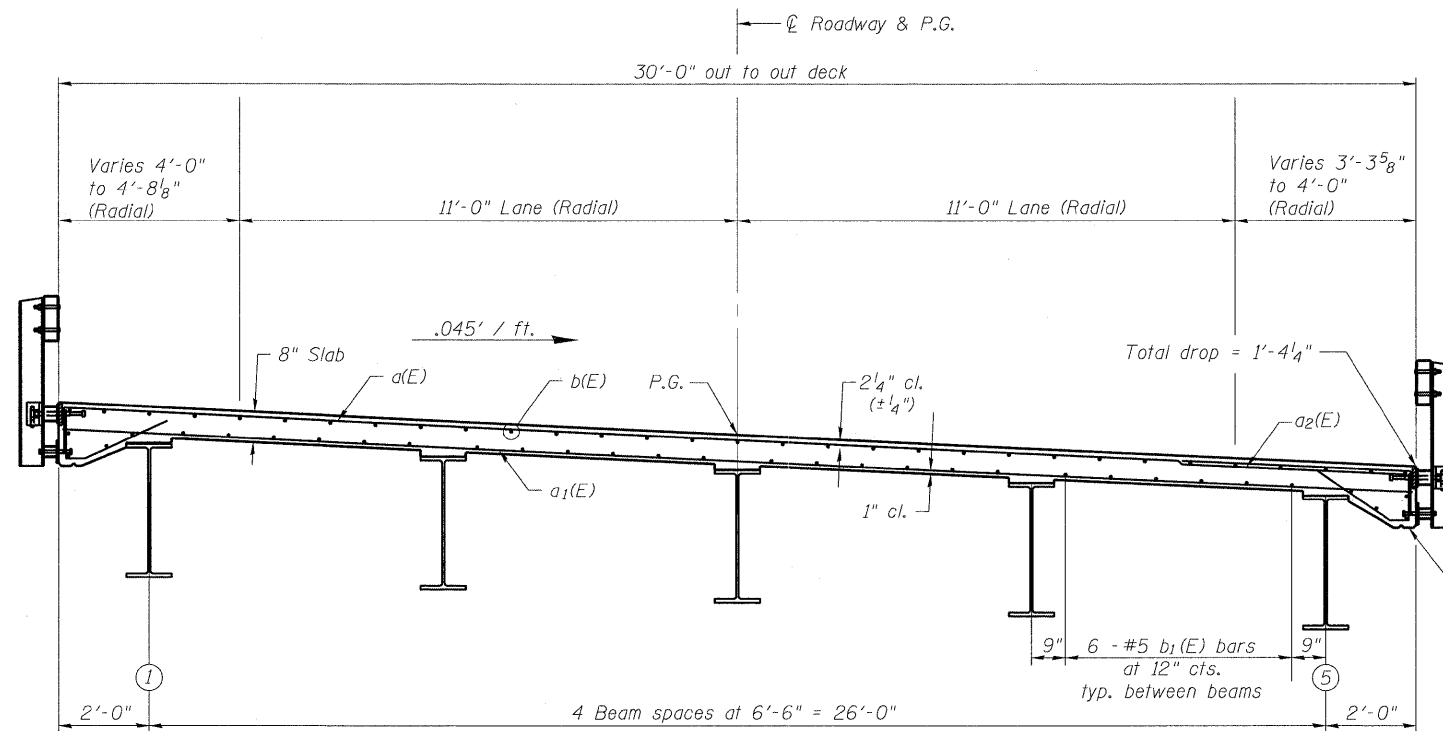
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17 SHEETS	CONTRACT NO. 93499				
FED. ROAD DIST. NO. _		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

\* Order a(E) and a<sub>1</sub>(E) bars full length.  
Cut to fit skew and use remainder  
of bars in opposite end.



PLAN



CROSS SECTION  
(Looking North)

Notes:  
See Sheet 6 of 17 for superstructure details  
and Bill of Material.  
Bars indicated thus 20 x 3-#5 etc. indicates  
20 lines of bars with 3 lengths per line.  
See Sheet 6 of 17 for Section A-A.  
See Sheet 15 of 17 for Bar Splicer Details.

**MIN. BAR LAP**  
#5 bar = 2'-2"

**SUPERSTRUCTURE**  
**F.A.S. ROUTE 454**  
**SECTION 04-00070-00-BR**  
**SCHUYLER COUNTY**  
**STATION 4+79.00**  
**S.N. 085-3055**



DESIGNED NIEWINSKI  
CHECKED TRELLO  
DRAWN VERENSKI  
CHECKED TRELLO

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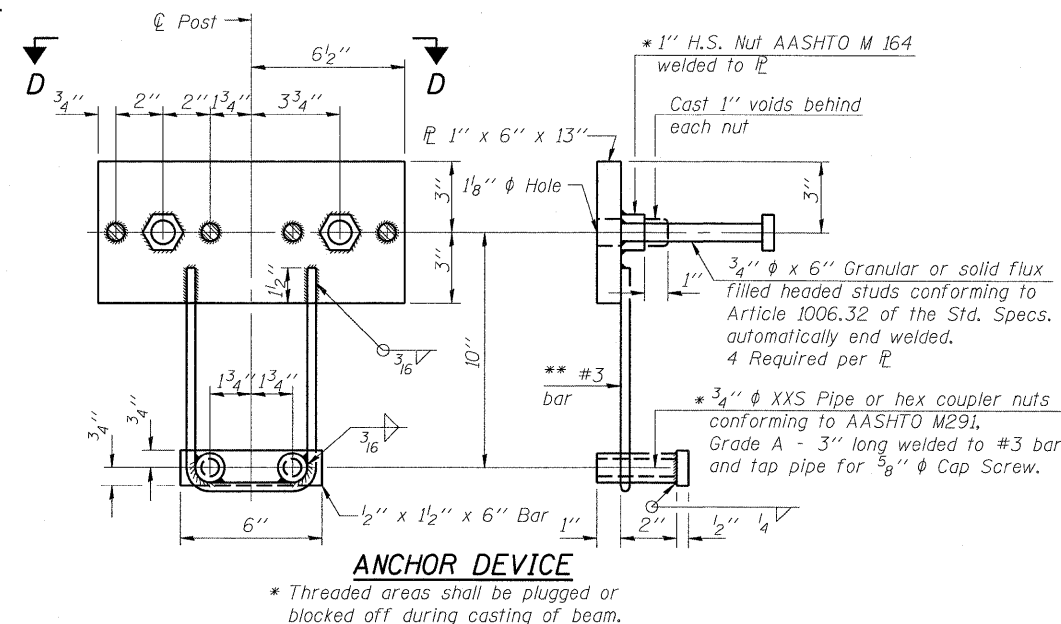
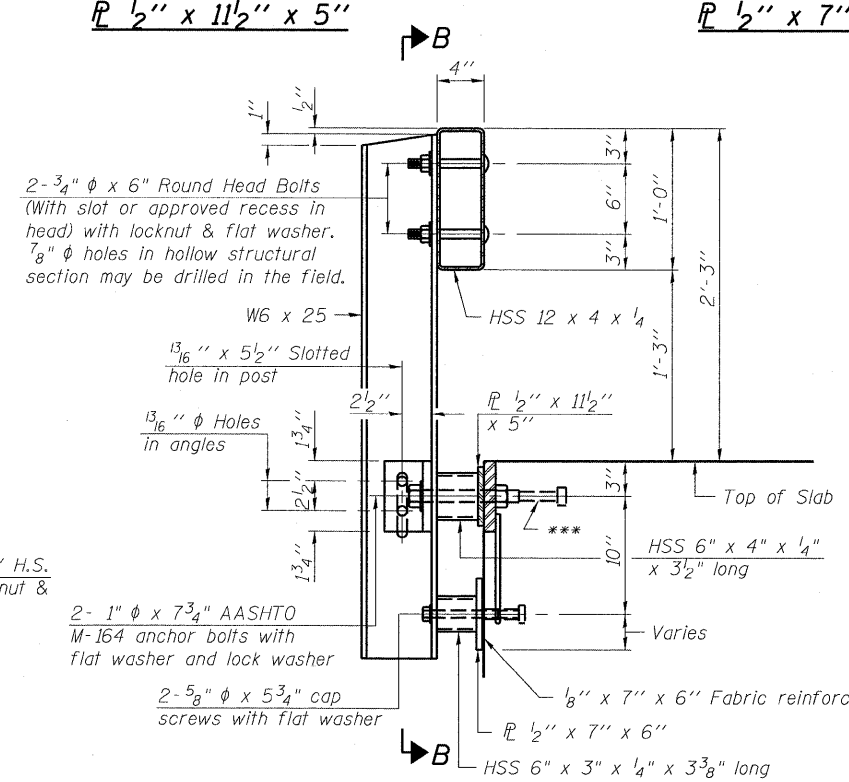
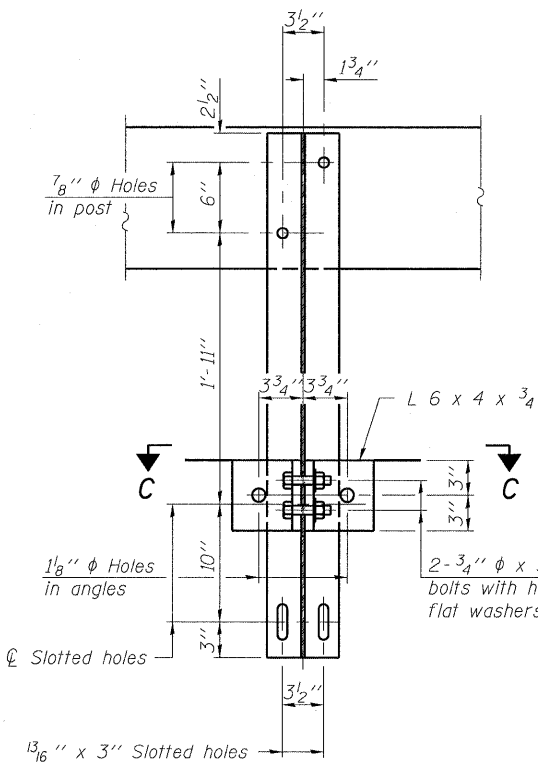
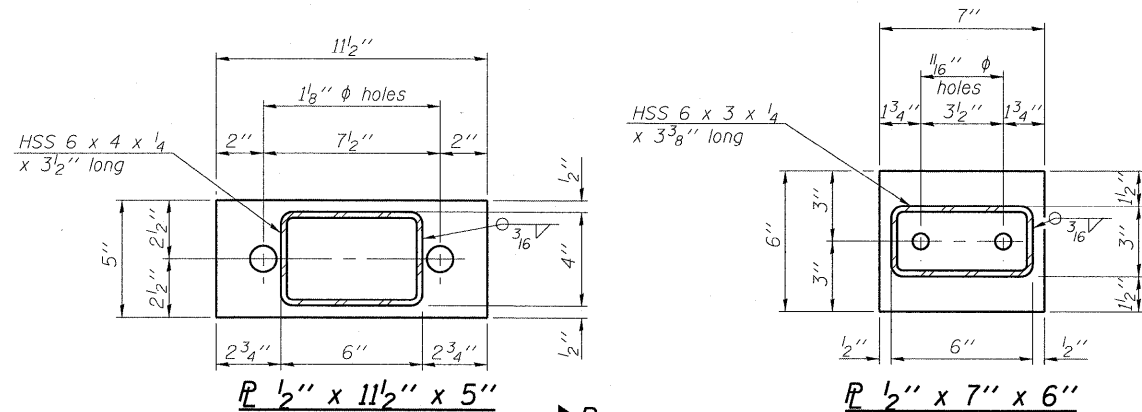
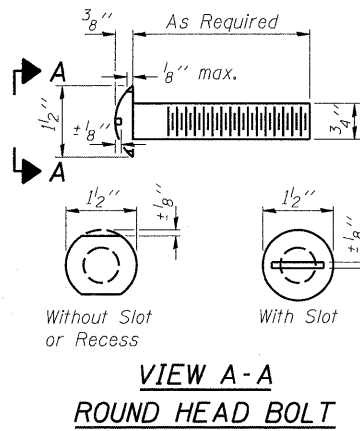
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FED. ROAD DIST. NO. - ILLINOIS			FED. AID PROJECT		
CONTRACT NO. 93499					

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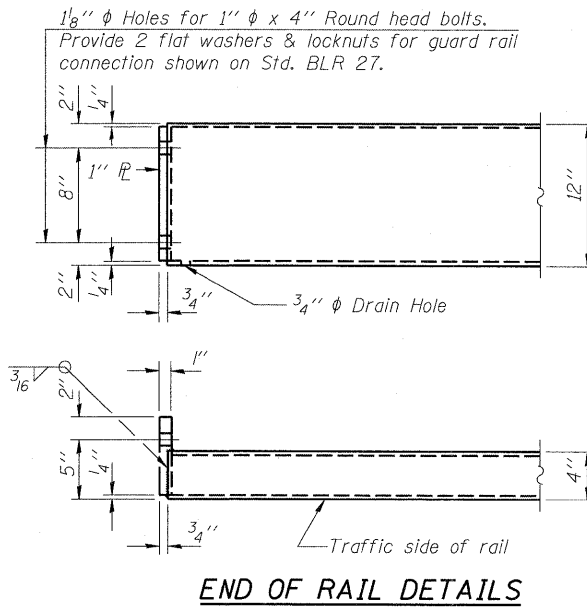
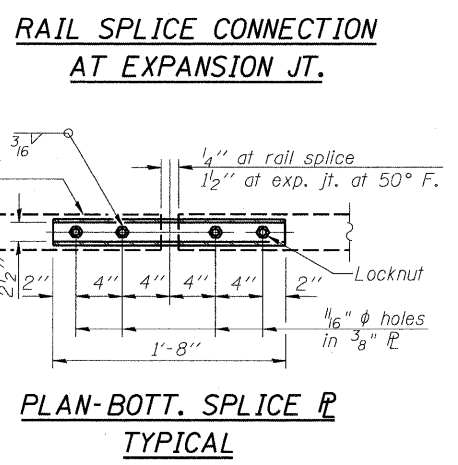
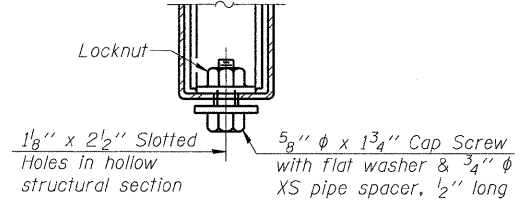
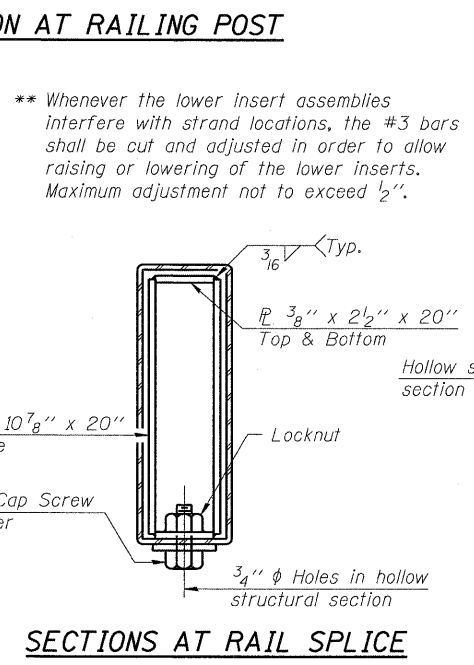
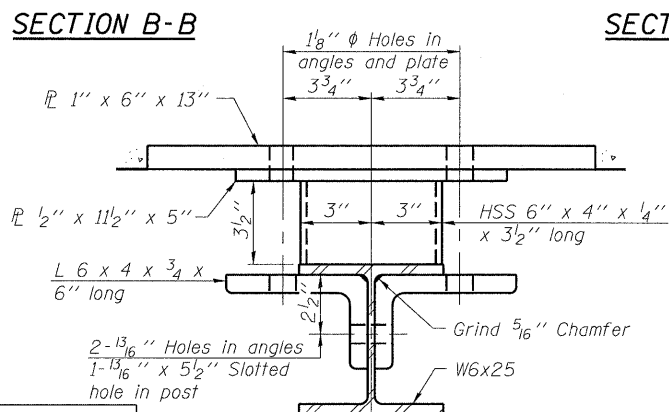
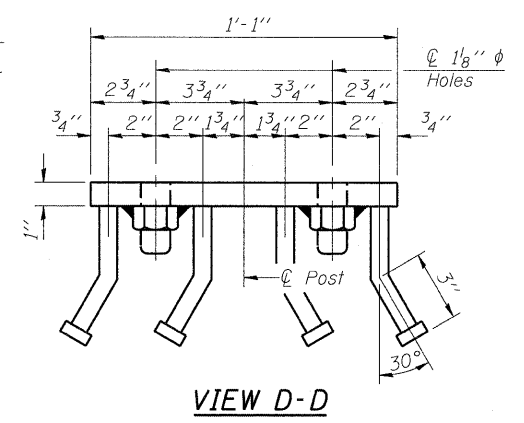
10-1-08



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



Notes:  
All field drilled holes shall be coated with an approved zinc rich paint before erection.  
For multi-span bridges, sufficient 1/4 inch x 6 inch x 1'-2 inch galvanized steel shims shall be provided to align rail between adjacent spans. Cost 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.



BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	164

STEEL RAILING, TYPE S-1  
F.A.S. ROUTE 454  
SECTION 04-0070-00-BR  
SCHUYLER COUNTY  
STATION 4+79.00  
S.N. 085-3055

SHEET NO. 7	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	454	04-0070-00-BR	SCHUYLER	30	15
FED. ROAD DIST. NO. - ILLINOIS				CONTRACT NO. 93499	
FED. AID PROJECT					

GREENE & BRADFORD, INC.  
CONSULTING ENGINEERS  
DESIGNERS  
DESIGNED NIEWINSKI  
CHECKED TRELLO  
DRAWN VERENSKI  
CHECKED TRELLO



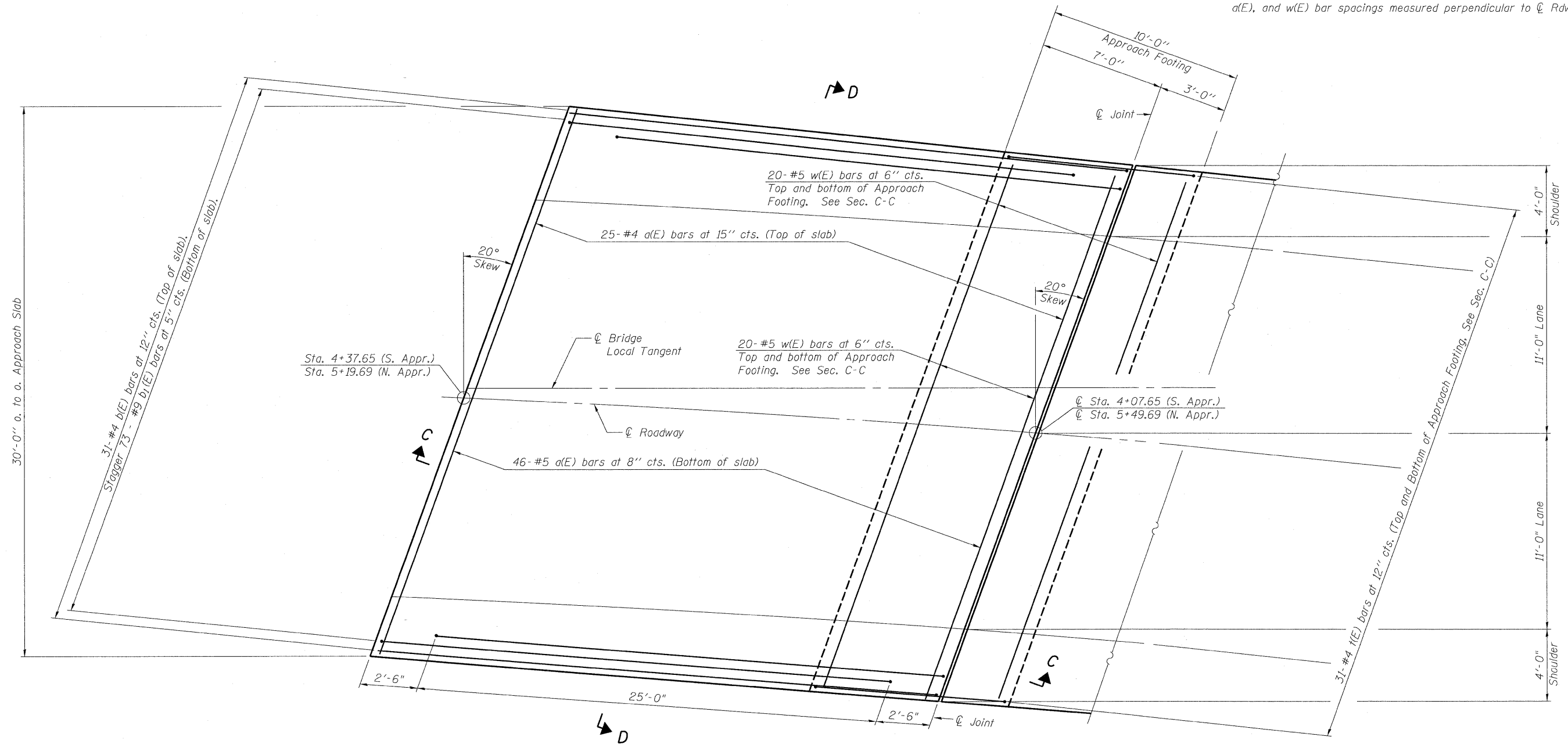






STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Notes:  
See sheet 12 of 17 for Sections C-C & D-D.  
a(E), and w(E) bar spacings measured perpendicular to  $\phi$  Rdwy.



\* Tilt #9 b<sub>1</sub>(E) bars as required to maintain clearance.

PLAN

(Sheet 1 of 2)  
**BRIDGE APPROACH SLAB DETAILS**  
**F.A.S. ROUTE 454**  
**SECTION 04-0070-00-BR**  
**SCHUYLER COUNTY**  
**STATION 4+79.00**  
**S.N. 085-3055**



DESIGNED NIEWINSKI  
CHECKED TRELLO  
DRAWN VERENSKI  
CHECKED TRELLO

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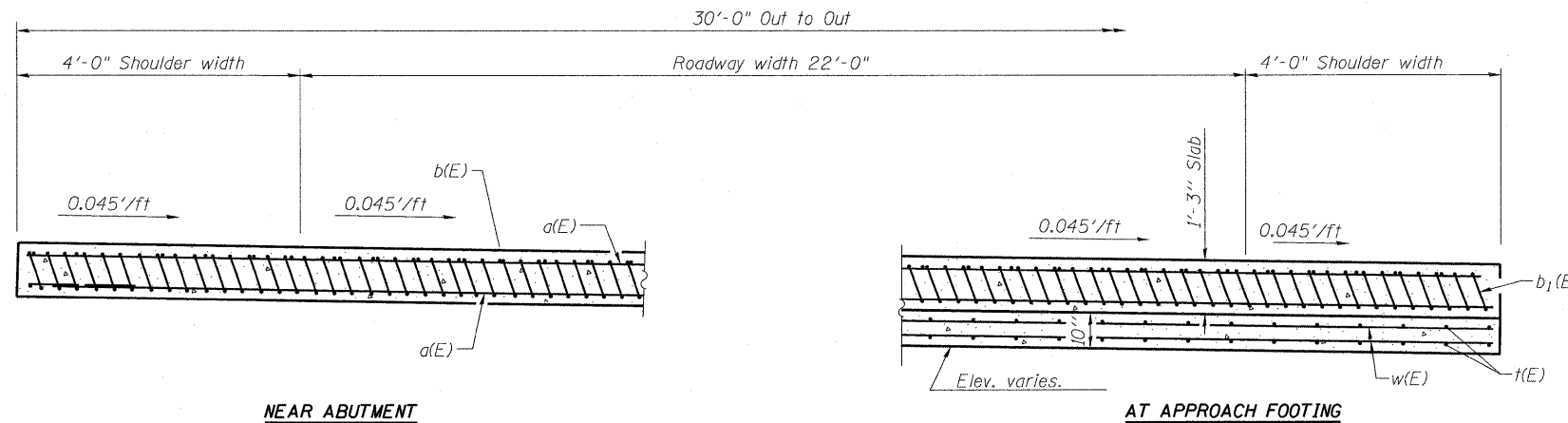
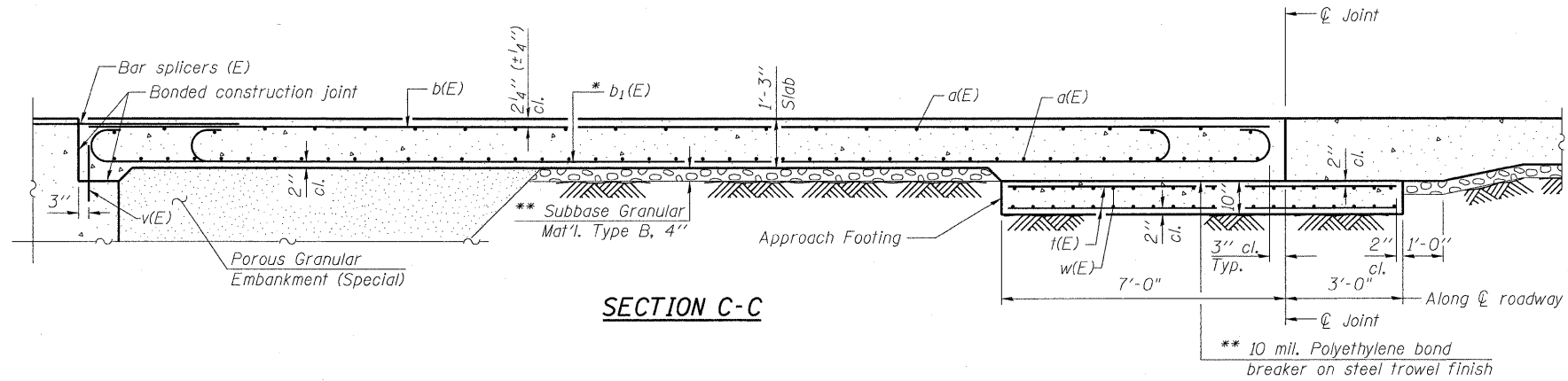
BA-L

10-31-08

SHEET NO. 11	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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17 SHEETS	CONTRACT NO. 93499				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Notes:  
Approach slab, approach footing and reinforcement shall be paid for as Bridge Approach Pavement (Special).  
For v(E) bar details, see sheet 6 of 17.  
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.  
For bar splicer details, see sheet 15 of 17.  
Cost of excavation for approach footing included with Bridge Approach Pavement (Special).  
For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 17.



\* Tilt #9 b<sub>1</sub>(E) bars as required to maintain clearance.  
\*\* Cost included with Bridge Approach Pavement (Special).

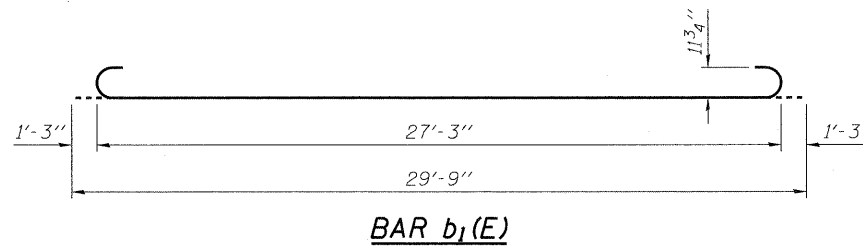
**TWO APPROACHES**  
**BILL OF MATERIAL**  
(For information Only)

Bar	No.	Size	Length	Shape
a(E)	142	#4	31'-7"	—
b(E)	62	#4	29'-8"	—
b <sub>1</sub> (E)	146	#9	29'-9"	⌋
t(E)	124	#4	10'-4"	—
w(E)	80	#5	31'-7"	—
Approach Slab Concrete			Cu. Yd.	88.7
Approach Footing Concrete			Cu. Yd.	18.5
Reinforcement Bars, Epoxy Coated			Pound	22,480

NEAR ABUTMENT

SECTION D-D  
(See Plan for dimensions not shown)

AT APPROACH FOOTING



(Sheet 2 of 2)  
**BRIDGE APPROACH SLAB DETAILS**  
**F.A.S. ROUTE 454**  
**SECTION 04-00070-00-BR**  
**SCHUYLER COUNTY**  
**STATION 4+79.00**  
**S.N. 085-3055**



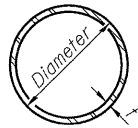
DESIGNED NIEWINSKI  
CHECKED TRELLO  
DRAWN VERENSKI  
CHECKED TRELLO

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BA-L 10-31-08

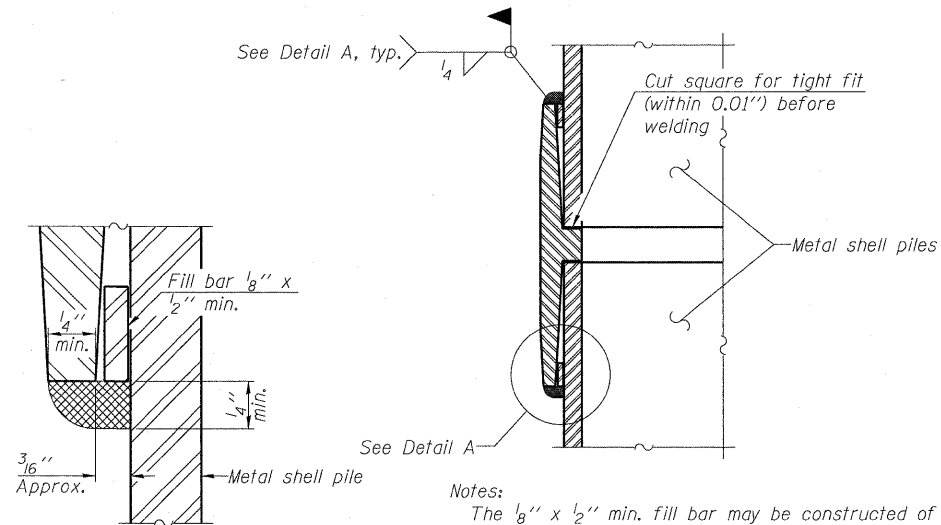
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	454	04-00070-00-BR	SCHUYLER	30	20
			CONTRACT NO. 93499		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**METAL SHELL PILE TABLE**

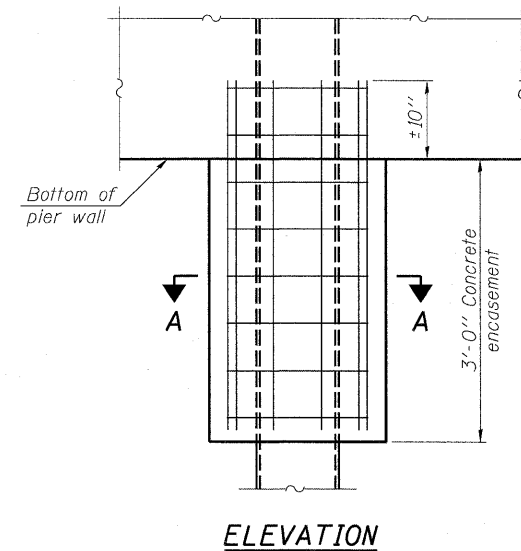
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. <sup>3</sup> /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361



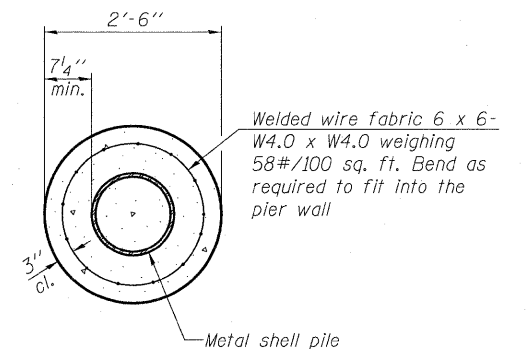
**DETAIL A**

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

**WELDED COMMERCIAL SPLICE**



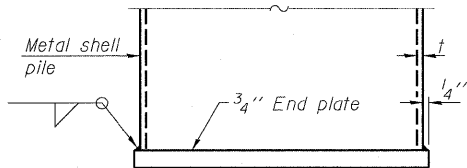
**ELEVATION**



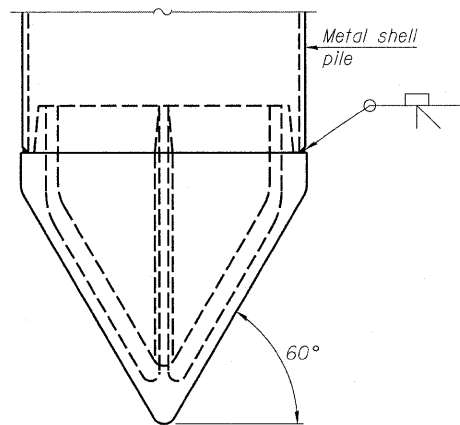
**SECTION A-A**

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

**CONCRETE ENCASEMENT AT PIERS**



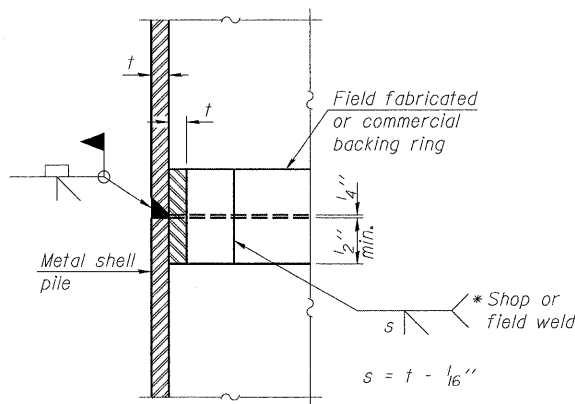
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**METAL SHELL PILE SHOE ATTACHMENT**

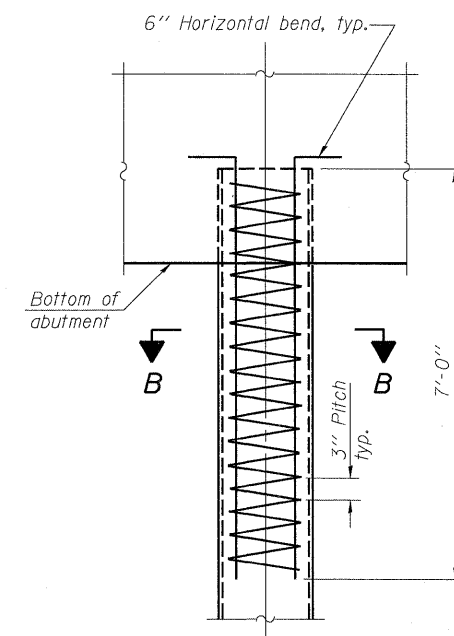
(See Note A)

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.



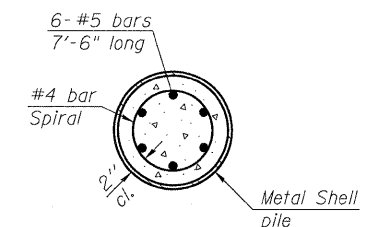
**COMPLETE PENETRATION WELD SPLICE**

\* 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**

**METAL SHELL REINFORCEMENT AT ABUTMENTS**



**SECTION B-B**

**PILE DATA**  
F.A.S. ROUTE 454  
SECTION 04-0070-00-BR  
SCHUYLER COUNTY  
STATION 4+79.00  
S.N. 085-3055

SHEET NO. 13	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	454	04-0070-00-BR	SCHUYLER	30	21
			CONTRACT NO. 93499		
FED. ROAD DIST. NO. _		ILLINOIS		FED. AID PROJECT	

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

F-MS

10-1-08



DESIGNED	NIEWINSKI
CHECKED	TRELLO
DRAWN	VERENSKI
CHECKED	TRELLO

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

The Illinois Coil-Lock Anchor Bolt is a proprietary item which is the property of the Illinois Department of Transportation. Use, reproduction or disclosure without express written permission is prohibited and protected under Federal copyright laws. The production and the fabrication of this bolt for use on highway projects in the State of Illinois shall be permitted and there shall be no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this bolt.

**MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT**

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026, CW and supplied with hexagonal nuts and cut washers.  
The coil wire shall be made of any suitable soft steel wire.  
The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed.  
The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C 881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

**GENERAL NOTES**

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's recommendation after beams or girders have been erected and adjusted.  
Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming.  
The anchor bolts, furnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for Furnishing and Erecting Structural Steel.

**INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT**

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

**ALTERNATE ANCHOR BOLTS**

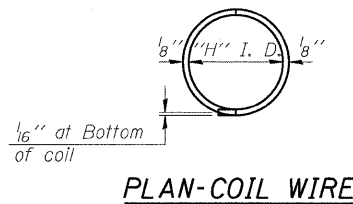
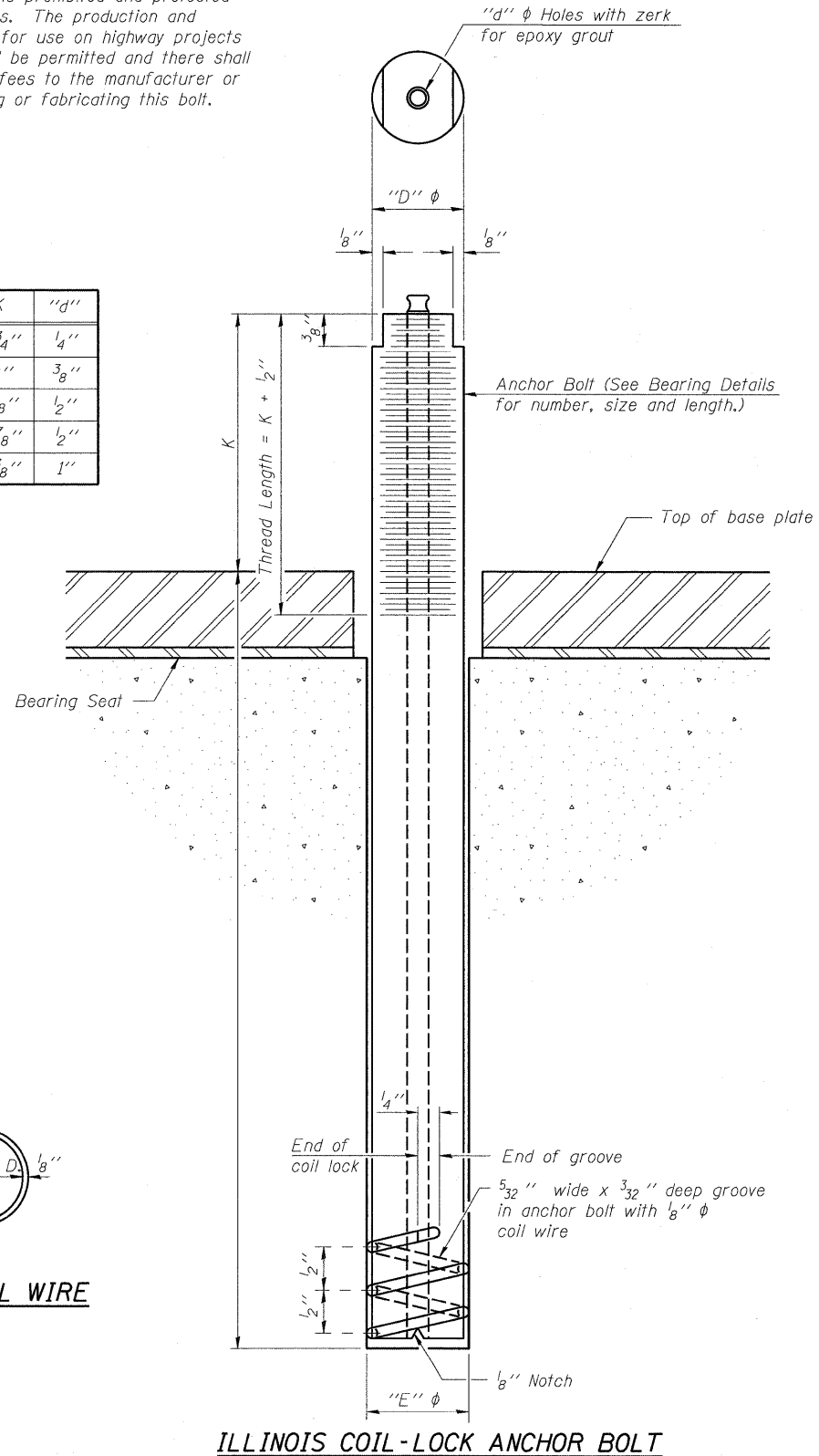
The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.

- The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:
1. A threaded rod stud with nut and washer of the type specified.
  2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Location	Type
Abutments	A307

ASTM F 1554 Grade 105, ASTM A 449 and AASHTO M 314 Grade 105 anchor bolts may be substituted for the anchor bolts shown above.

D	E	H	K	"d"
1"	1 1/8"	1 3/16"	1 3/4"	1/4"
1 1/4"	1 3/8"	1 1/16"	2"	3/8"
1 1/2"	1 5/8"	1 5/16"	2 1/8"	1/2"
2"	2 1/8"	1 3/16"	2 7/8"	1/2"
2 1/2"	2 5/8"	2 5/16"	3 3/8"	1"



**ANCHOR BOLT DETAILS  
FOR BEARINGS  
F.A.S. ROUTE 454  
SECTION 04-00070-00-BR  
SCHUYLER COUNTY  
STATION 4+79.00  
S.N. 085-3055**

**GREENE & BRADFORD, INC.**  
OF SPRINGFIELD  
CONSULTING ENGINEERS  
REGISTERED PROFESSIONAL ENGINEERS  
PROFESSIONAL DESIGN FIRM NO. 085-3055  
021 793-8844, 021 793-5227 (FAX) • [www.greenebroford.com](http://www.greenebroford.com)

DESIGNED	NIEWINSKI
CHECKED	TRELLO
DRAWN	VERENSKI
CHECKED	TRELLO

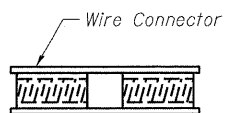
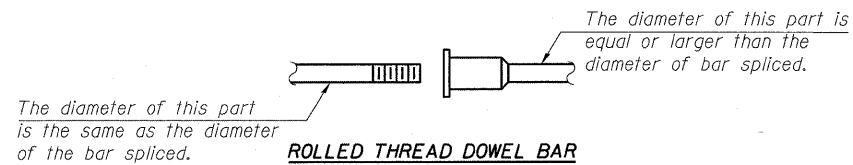
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FILE NAME = J:\07258\CADD\CAD\sheet\SN 085-3055\0853055-07258-Sht-ABD.dgn  
PLOT DATE = 9/18/2009 PLOT SCALE = 21' 1" / in. USER NAME = Frank

SHEET NO. 14	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	454	04-00070-00-BR	SCHUYLER	30	22
17 SHEETS	CONTRACT NO. 93499				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

ABB-1

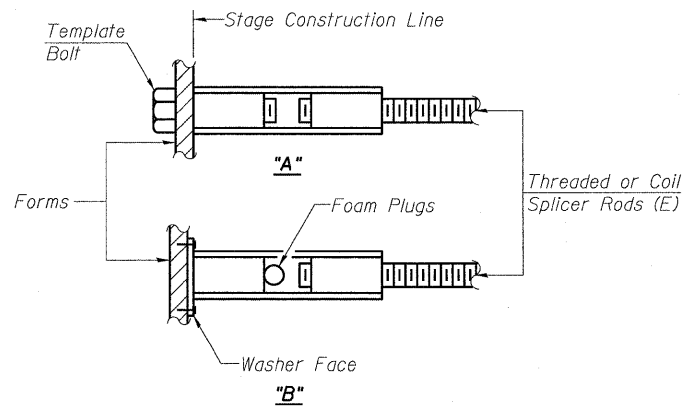
10-22-04

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**BAR SPLICER ASSEMBLY ALTERNATIVES**

\*\*Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



**INSTALLATION AND SETTING METHODS**

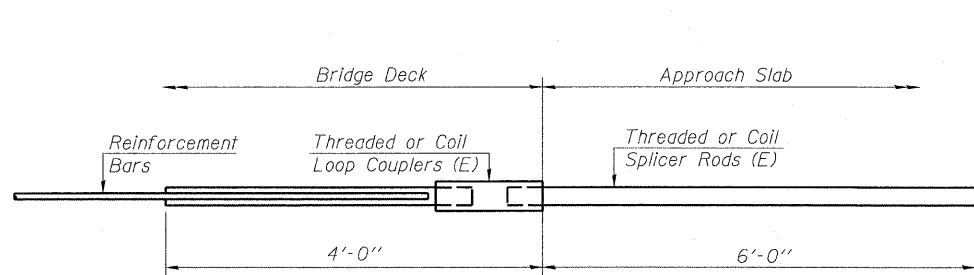
"A" : Set bar splicer assembly by means of a template bolt.  
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
(E) : Indicates epoxy coating.

**NOTES**

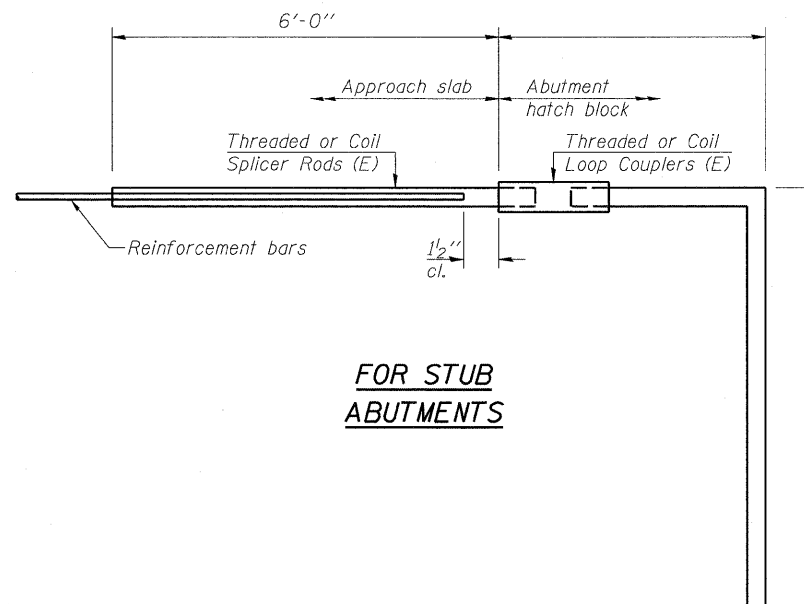
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.  
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.  
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.  
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.  
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity =  $1.25 \times f_y \times A_t$   
(Tension in kips)
  - ② Minimum \*Pull-out Strength =  $0.66 \times f_y \times A_t$   
(Tension in kips)
- Where  $f_y$  = Yield strength of lapped reinforcement bars in ksi.  
 $A_t$  = Tensile stress area of lapped reinforcement bars.  
\* = 28 day concrete

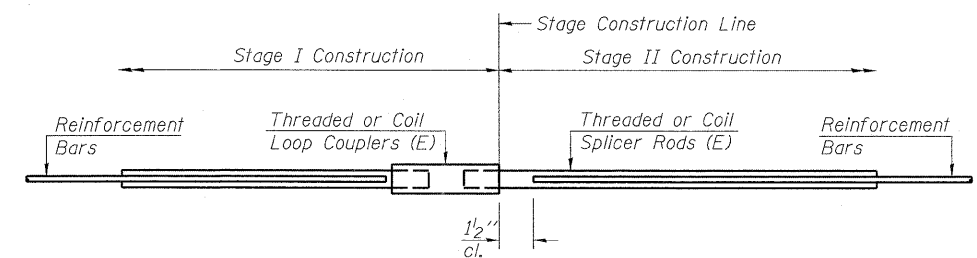
BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-2"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



**FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**



**FOR STUB ABUTMENTS**



**STANDARD**

Bar Size	No. Assemblies Required	Location

**BAR SPLICER ASSEMBLY DETAILS**  
F.A.S. ROUTE 454  
SECTION 04-00070-00-BR  
SCHUYLER COUNTY  
STATION 4+79.00  
S.N. 085-3055

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 62

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



DESIGNED NIEWINSKI  
CHECKED TRELLO  
DRAWN VERENSKI  
CHECKED TRELLO

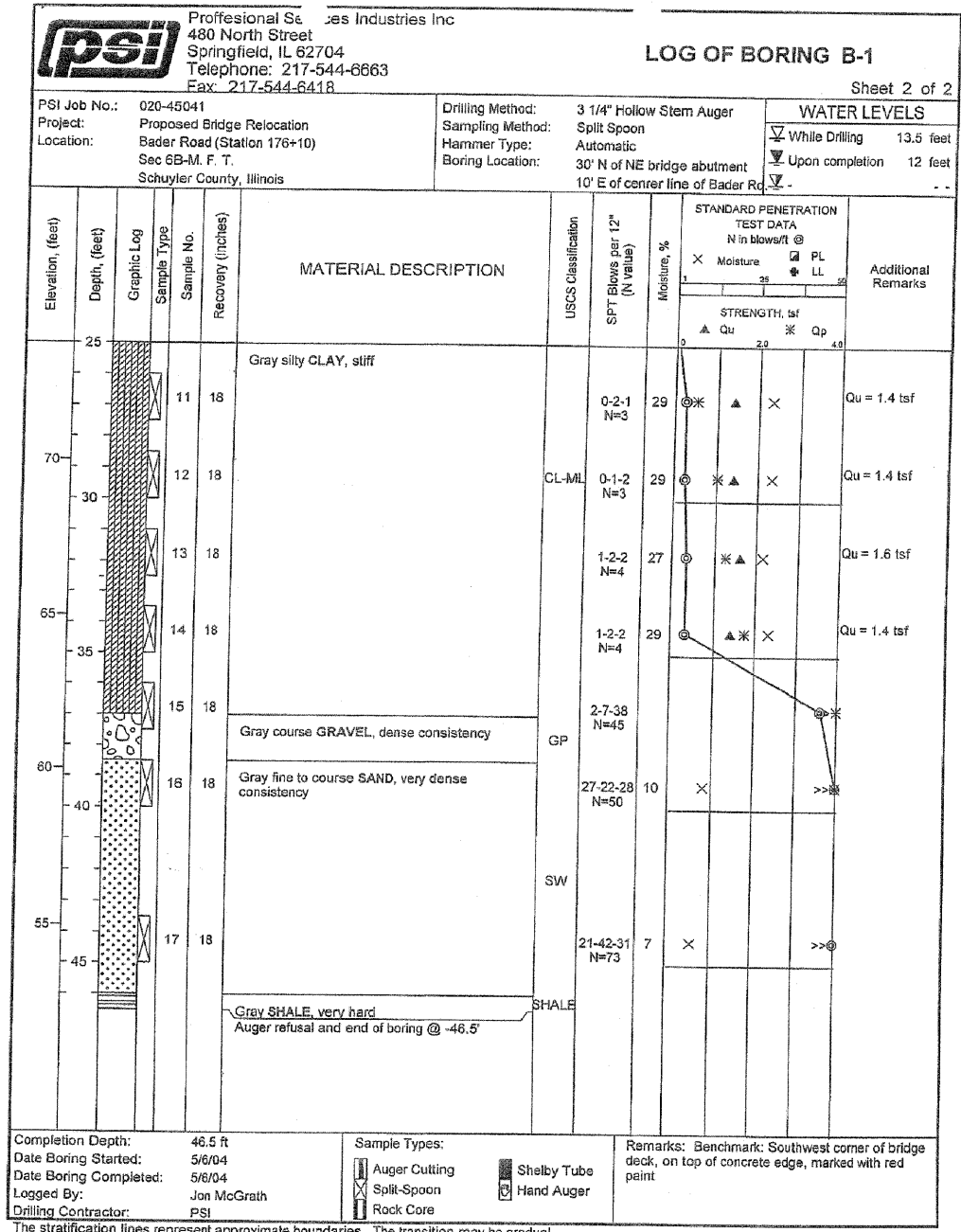
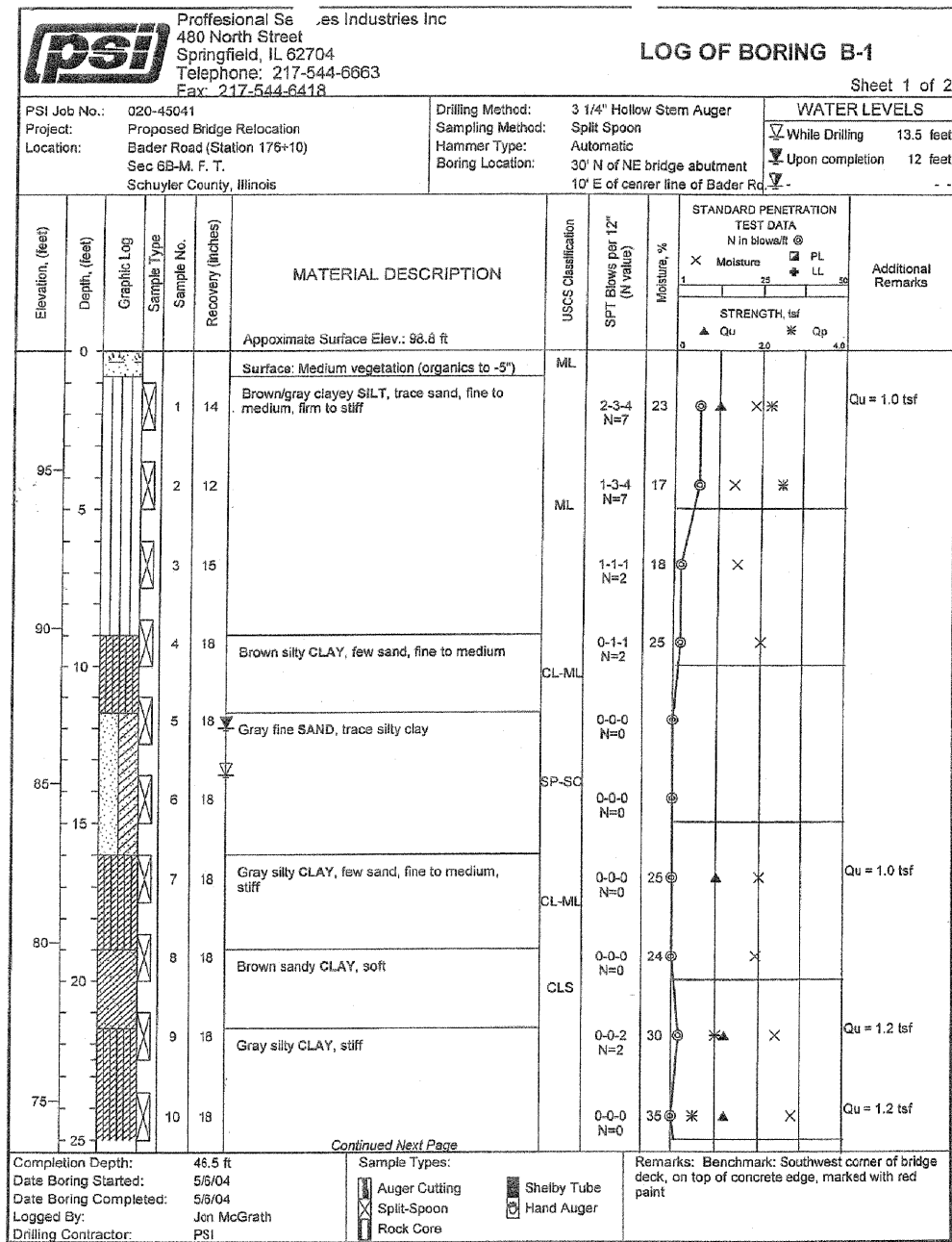
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FILE NAME = J:\07258\CADD\CADsheets\SN 085-3055\0853055-07258-Sht-BSA.dgn  
PLOT DATE = 9/18/2009 PLOT SCALE = 4:2 1/2" = 1" USER NAME = Frankv

BSD-1

10-1-08

SHEET NO. 15 17 SHEETS	F.A.S. RTE. 454	SECTION 04-00070-00-BR	COUNTY SCHUYLER	TOTAL SHEETS 30	SHEET NO. 23
	FED. ROAD DIST. NO. - ILLINOIS			CONTRACT NO. 93499	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



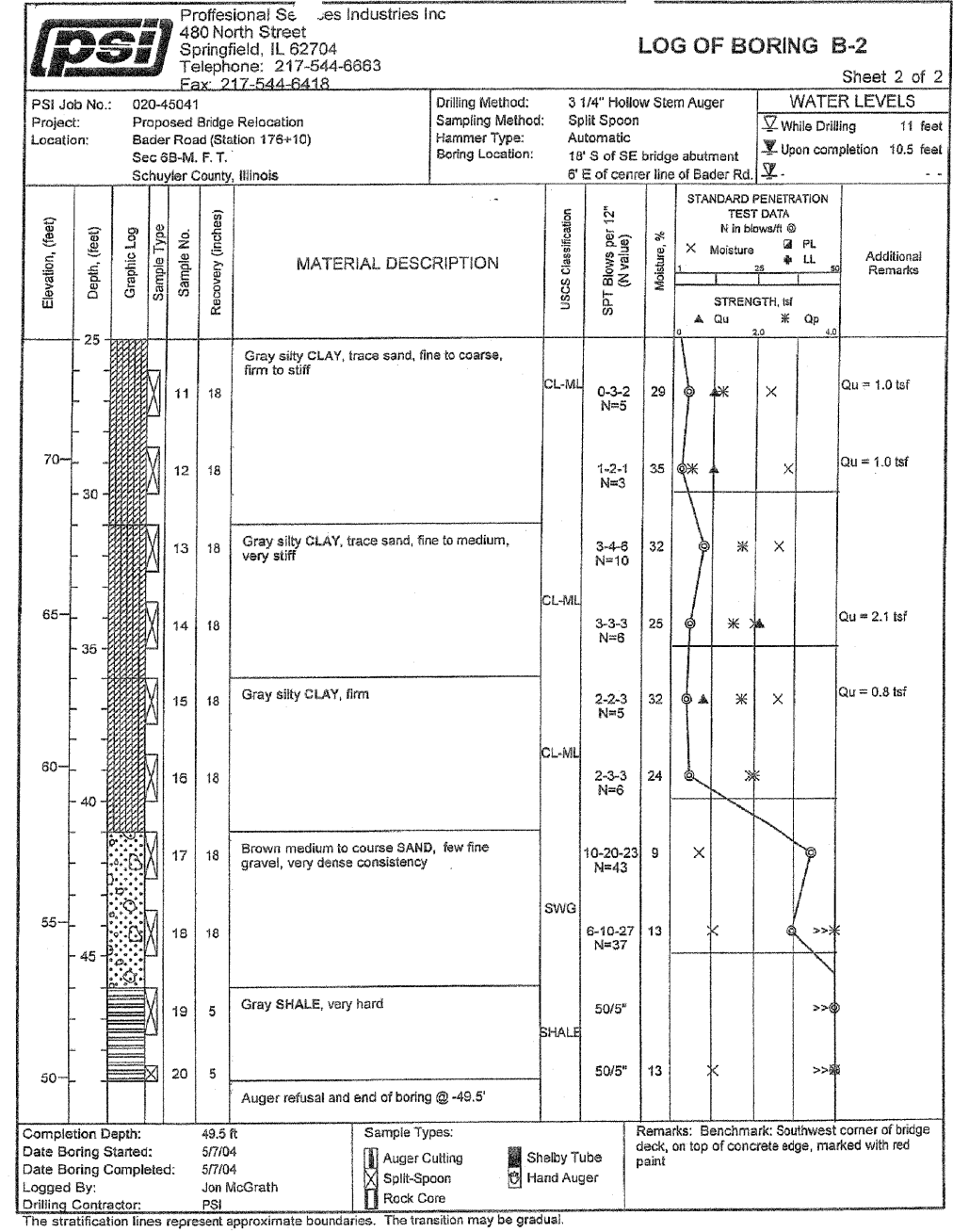
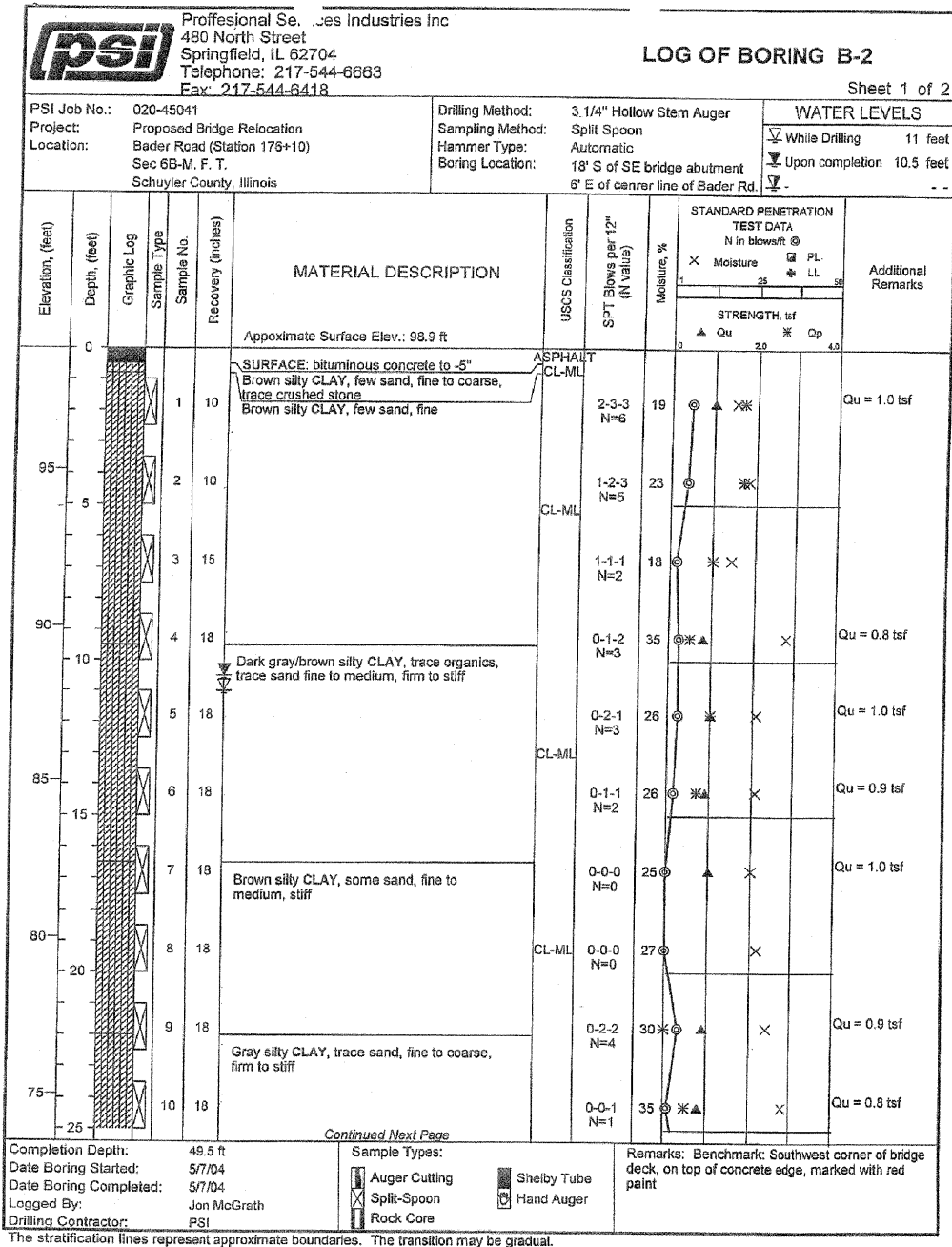
DESIGNED *NIWINSKI*  
CHECKED *TRELLO*  
DRAWN *VERENSKI*  
CHECKED *TRELLO*

**BORING LOGS**  
**F.A.S. ROUTE 454**  
**SECTION 04-00070-00-BR**  
**STATION 4+79.00**  
**SCHUYLER COUNTY**  
**S.N. 085-3055**

SHEET NO. 16	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	454	04-00070-00-BR	SCHUYLER	30	24
17 SHEETS	CONTRACT NO. 93499			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT	



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**GREENE & BRADFORD, INC.**  
OF SPRINGFIELD  
CONSULTING ENGINEERS  
300 CONSTRUCTION DRIVE  
SPRINGFIELD, ILLINOIS 62704  
PROFESSIONAL DESIGN ENGINEERING  
PROFESSIONAL & STRUCTURAL ENGINEERING CORPORATION  
618-793-8844, 618-793-8227 (F), E-MAIL: cdb@greenebroford.com

DESIGNED NIEWINSKI  
CHECKED TRELLO  
DRAWN VERENSKI  
CHECKED TRELLO

G&B PROJECT: - PLOT DRIVER = V81.T06700.PS.LOCAL\_ID01.plt.cfg  
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PLOT DATE = 9/18/2009 PLOT SCALE = 0:1" = 1' USER NAME = frankv

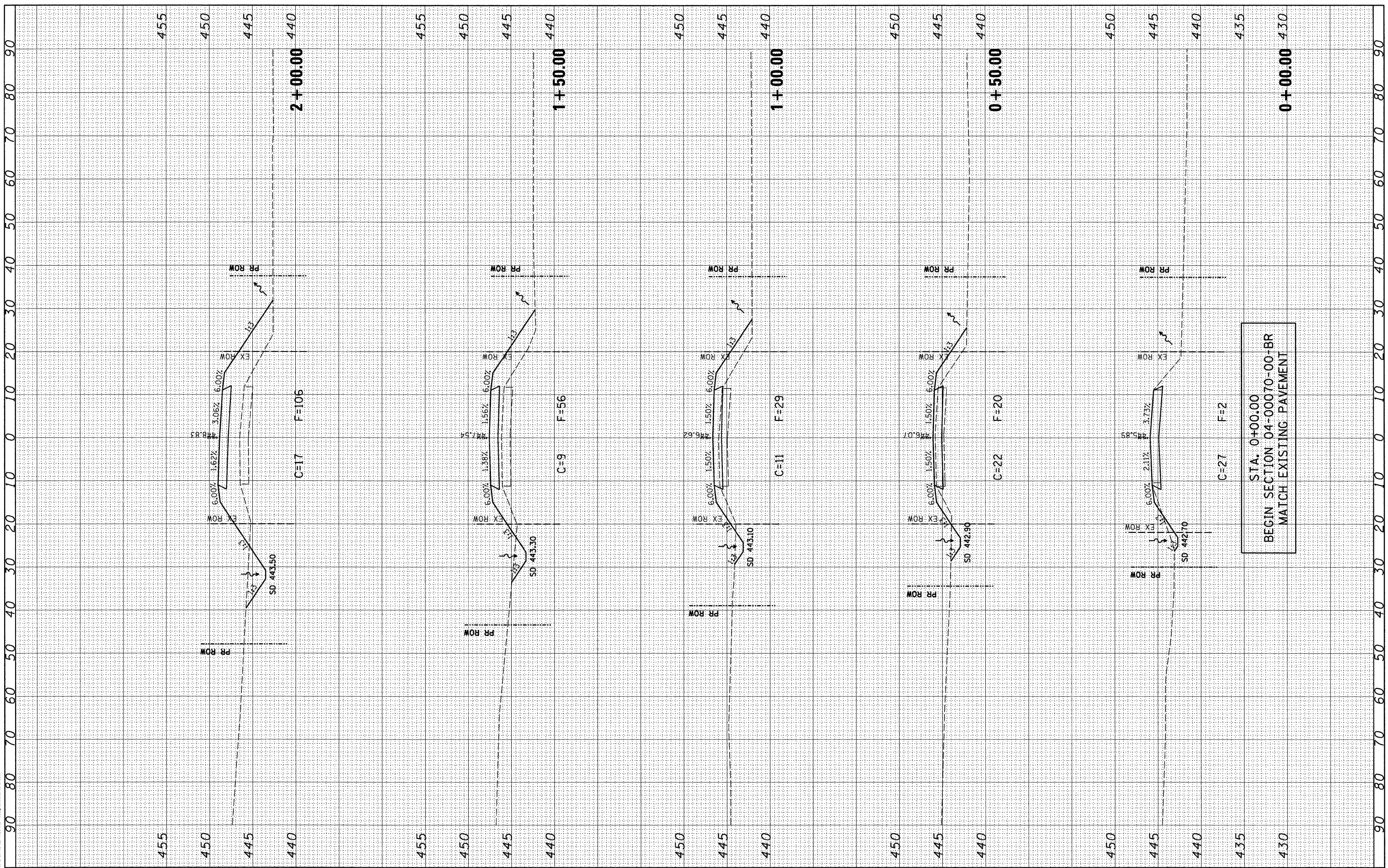
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**F.A.S. ROUTE 454**  
**SECTION 04-0070-00-BR**  
**STATION 4+79.00**  
**SCHUYLER COUNTY**  
**S.N. 085-3055**

SHEET NO. 17	F.A.S. RTE. 454	SECTION 04-0070-00-BR	COUNTY SCHUYLER	TOTAL SHEETS 30	SHEET NO. 25
17 SHEETS			CONTRACT NO. 93499		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

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

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

GREENE & BRADFORD, INC.  
 SURVEYING & ENGINEERING  
 1001 W. 10th St., Suite 100  
 Chicago, IL 60607  
 (773) 327-1000



STA. 0+00.00  
 BEGIN SECTION 04-00070-00-BR  
 MATCH EXISTING PAVEMENT

FILE NAME = J:\07258\CADD\CADsheets\07258-ht-xssht.dgn  
 G&B PROJECT: 07258  
 PLOT DRIVER = VBI\_T05700\_PS\_LOCAL\_IDDT.plt

USER NAME = frankv	DESIGNED - WCB	REVISED -
PLOT SCALE = 10.0000' / 1" =	DRAWN - MDS	REVISED -
PLOT DATE = 9/14/2009	CHECKED - WCB	REVISED -
	DATE - 7/14/09	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

FAS 454 - CROSS SECTIONS

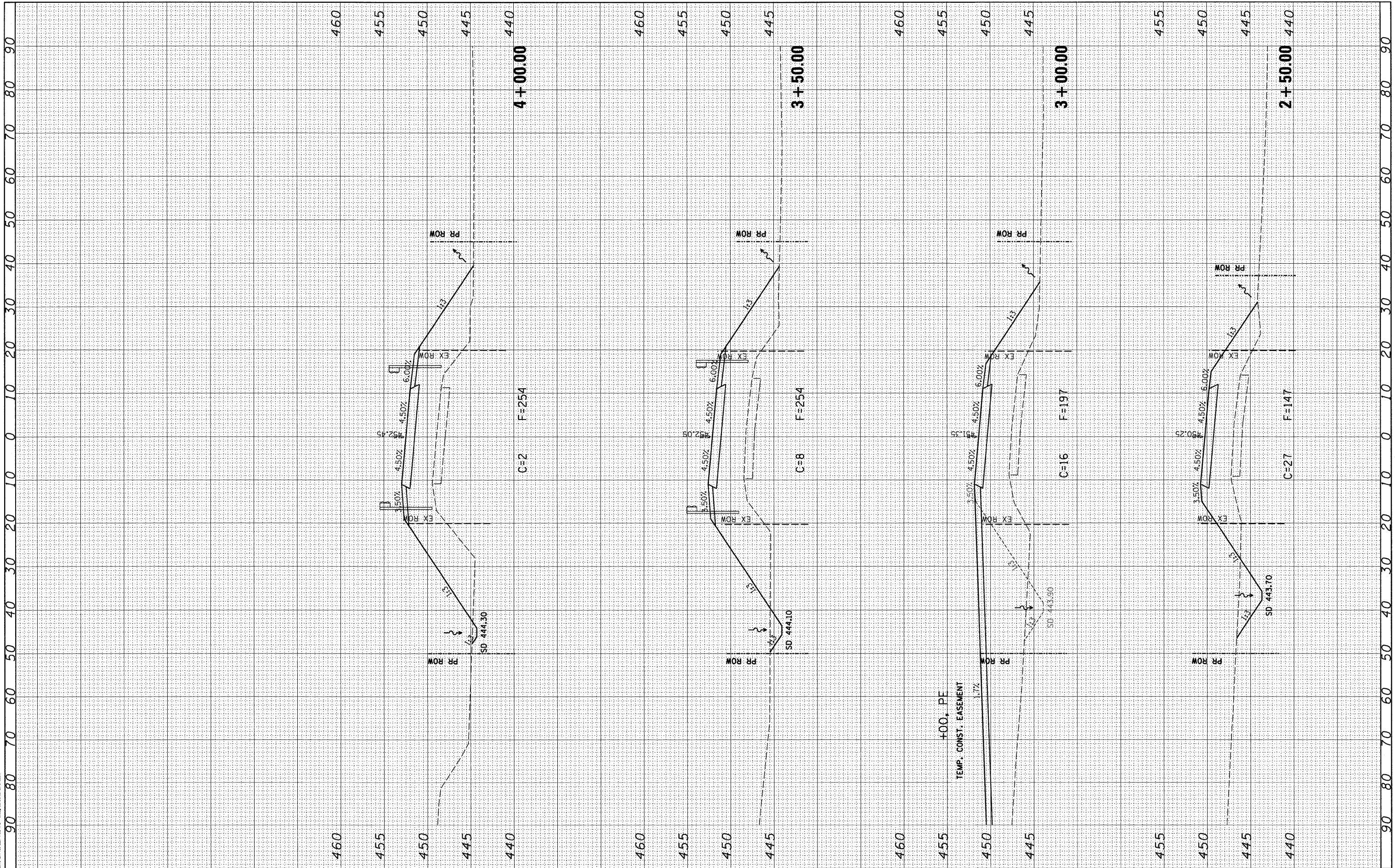
SCALE: 1" = 10' SHEET NO. 1 OF 5 SHEETS STA. 0+00.00 TO STA. 2+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
454	04-00070-00-BR	SCHUYLER	30	26
CONTRACT NO. 93499				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT BRS-0454103				

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

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

GREENE & BRADFORD, INC.  
 CIVIL ENGINEERS  
 1000 W. MONROE ST., SUITE 100  
 CHICAGO, ILL. 60606  
 TEL: (312) 467-1000  
 FAX: (312) 467-1001  
 WWW.GRENEANDBRADFORD.COM



FILE NAME = J:\07258\CADD\CADsheets\07258-sht-xssht.dgn  
 G&B PROJECT: 07258  
 PLOT DRIVER = V8L.TDS700\_PS.LOCAL.IDDT.pltcf

USER NAME = Frankv  
 PLOT SCALE = 10.0000' / 1" = 100.0000'  
 PLOT DATE = 9/18/2009

DESIGNED - WCB  
 DRAWN - MDS  
 CHECKED - WCB  
 DATE - 7/14/09

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

FAS 454 - CROSS SECTIONS

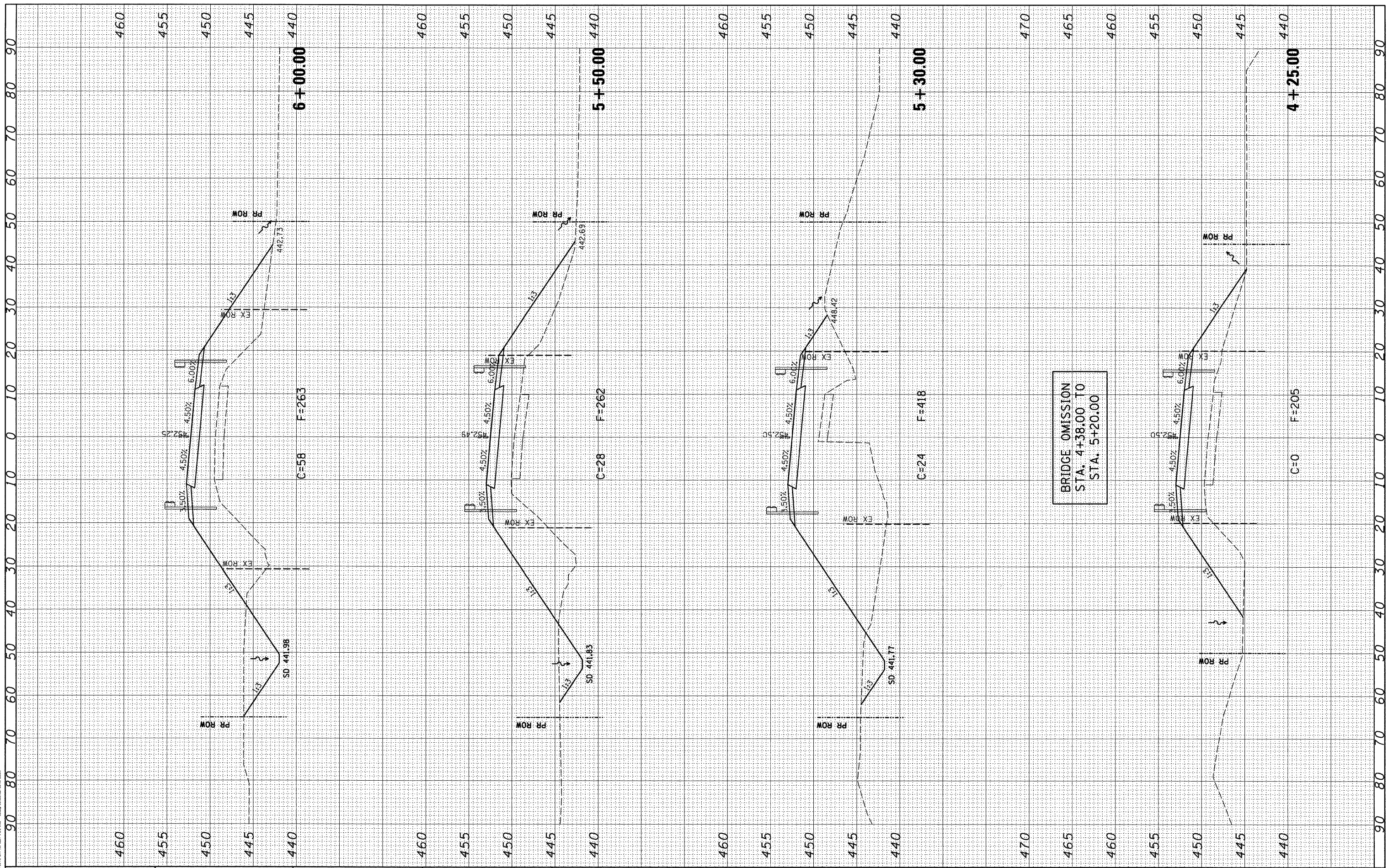
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
454	04-00070-00-BR	SCHUYLER	30	27
CONTRACT NO. 93499				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		BRS-0454103	

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

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

**GREENE & BRADFORD, INC.**  
 CONSULTING ENGINEERS  
 1000 W. 10th Street, Suite 100, Springfield, IL 62761  
 (618) 261-1111



BRIDGE OMISSION  
 STA. 4+38.00 TO  
 STA. 5+20.00

FILE NAME = J:\07258\CADD\CADsheets\07258-aht-xssht.dgn  
 G&B PROJECT: 07258  
 PLOT DRIVER = V8\_TDS700\_PS\_LOCAL\_IDOT.pltcf

USER NAME = frankv	DESIGNED - WCB	REVISIONS
PLOT SCALE = 10.0000' / 1"	DRAWN - MDS	REVISIONS
PLOT DATE = 9/18/2009	CHECKED - WCB	REVISIONS
	DATE - 7/14/09	REVISIONS

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FAS 454 - CROSS SECTIONS**

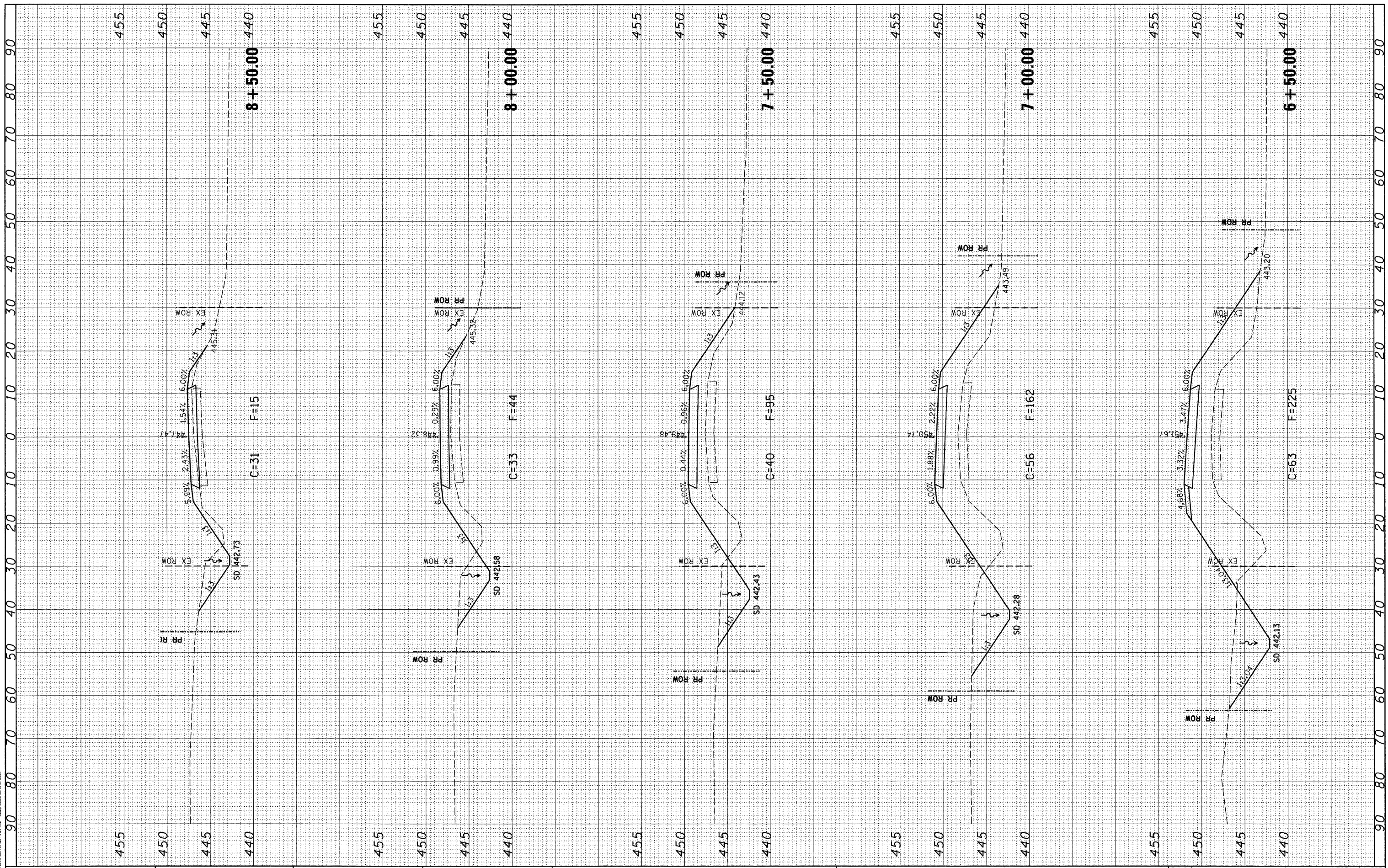
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
454	04-00070-00-BR	SCHUYLER	30	28
CONTRACT NO. 93499				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT BRS-0454103				

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

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

GREENE & BRAUNFORD, INC.  
 SURVEYING & ENGINEERING  
 1000 N. W. 10th St., Ft. Lauderdale, FL 33304  
 (954) 525-1100



FILE NAME = J:\07258\CADD\CADsheets\07258-sht-ssht.dgn  
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PLOT SCALE = 10.0000' / 1"	DRAWN - MDS	REvised -
PLOT DATE = 9/18/2009	CHECKED - WCB	REvised -
	DATE - 7/14/09	REvised -

DESIGNED - WCB	REvised -
DRAWN - MDS	REvised -
CHECKED - WCB	REvised -
DATE - 7/14/09	REvised -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FAS 454 - CROSS SECTIONS**

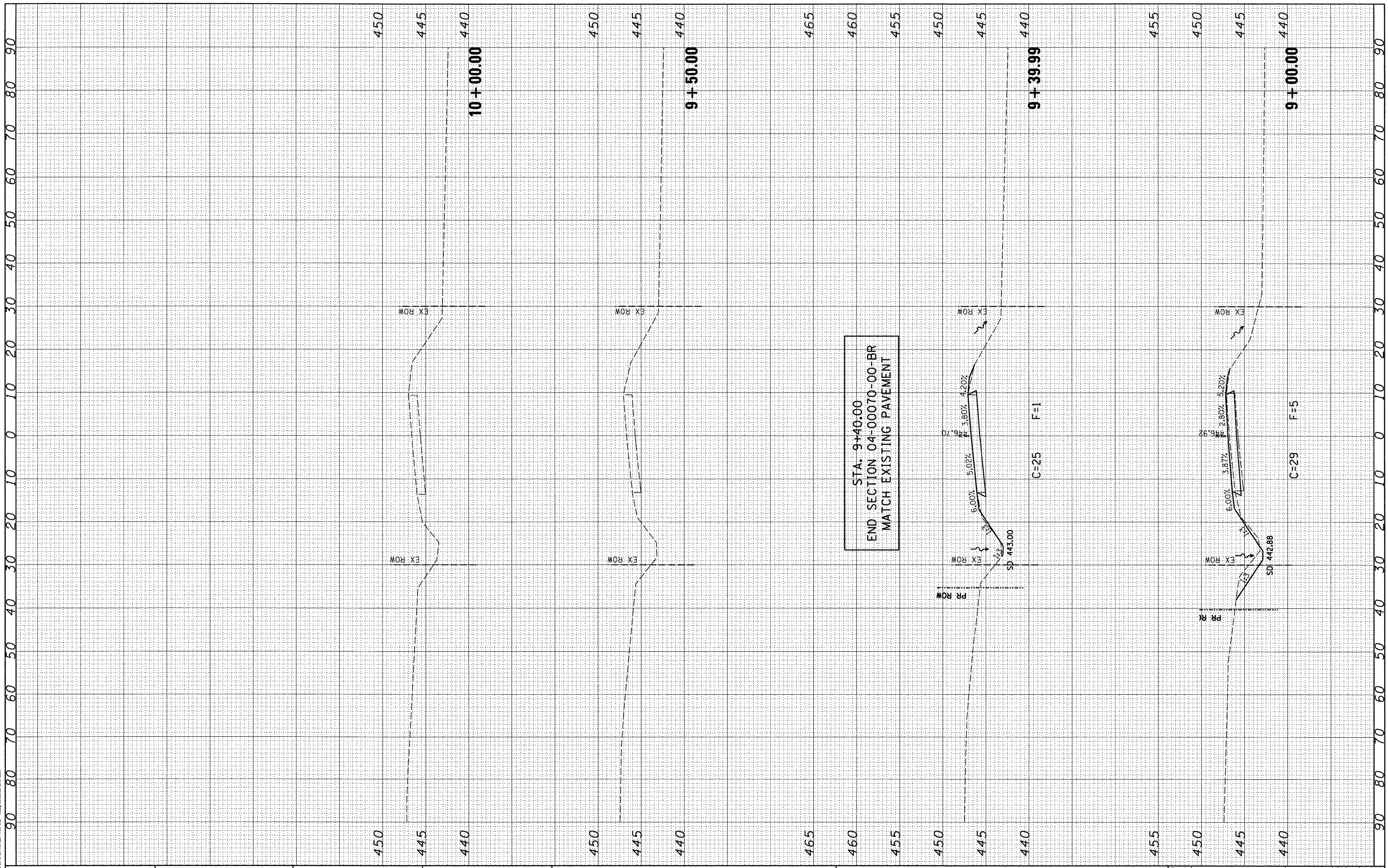
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
454	04-00070-00-BR	SCHUYLER	30	29
CONTRACT NO. 93499				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT BRS-0454103				

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

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

**GREENE & BRADFORD, INC.**  
 CONSULTING ENGINEERS  
 1000 W. MONROE ST., SUITE 100  
 CHICAGO, ILLINOIS 60606  
 TEL: 312.587.1100 FAX: 312.587.1101



FILE NAME = J:\07258\CA00\CADsheets\07258-sht-xssht.dgn  
 USER NAME = Frankv  
 PLOT SCALE = 10.0000' / in.  
 PLOT DATE = 9/18/2009

DESIGNED - WCB	REVISED -
DRAWN - MDS	REVISED -
CHECKED - WCB	REVISED -
DATE - 7/14/09	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FAS 454 - CROSS SECTIONS**

SCALE: 1" = 10'    SHEET NO. 5 OF 5 SHEETS    STA. 9+00.00 TO STA. 10+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
454	04-00070-00-BR	SCHUYLER	30	30
CONTRACT NO. 04 9 9 9				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT BRS-0454103				

PLOT DRIVER = V8: TDS700\_PS\_LOCAL\_IDOT.plt