

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY BRIDGE PROGRAM**

FAS ROUTE 556 - CH 4 (BUCKHART ROAD)
SECTION 08-00119-04-BR
PROJECT BRS-0556(311)
BRIDGE REPLACEMENT
SANGAMON COUNTY

C-96-202-12

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	08-00119-04-BR	SANGAMON	23	1
		ILLINOIS	CONTRACT NO. 93556	



LOCATION OF SECTION INDICATED THIS:

FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN)
DESIGN SPEED = 50 MPH
2031 ADT = 2985

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES AND SUMMARY OF QUANTITIES
- 3 TYPICAL SECTIONS AND ENTRANCE DETAILS
- 4-5 PLAN AND PROFILE SHEETS
- 6-7 EROSION CONTROL SHEETS
- 8-18 STRUCTURE PLANS
- 19-25 CROSS SECTIONS

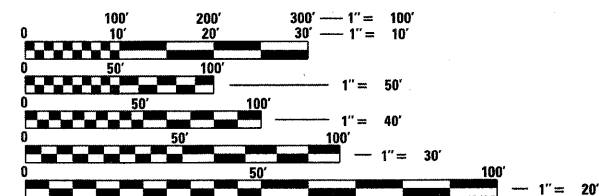
HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 280001-05 TEMPORARY EROSION CONTROL SYSTEMS
- 515001-03 NAME PLATE FOR BRIDGES
- 630001-09 STEEL PLATE BEAM GUARDRAIL
- 630301-05 SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
- 631032-06 TRAFFIC BARRIER TERMINAL, TYPE 6A
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 701306-03 LANE CLOSURE, 2L, 2W SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701901-01 TRAFFIC CONTROL DEVICES
- 780001-02 TYPICAL PAVEMENT MARKINGS
- BLR21- 8 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- BLR24-2 MAILBOX TURNOUT FOR LOCAL ROADS
- 701306-03 LANE CLOSURE, 2L 2W, SLOW MOVING OPERATIONS - DAY ONLY, FOR SPEEDS ≥ 45 MPH

UTILITY COMPANIES

POWER COMPANY
AMEREN
MR. GEORGE SOMMER
825 N. McARTHUR BLVD.
SPRINGFIELD, IL 62702
PH (217) 753-6458

TELEPHONE COMPANY
ATA&T
MR. MARK MILLER
529 S. 7TH STREET
FLOOR 3B
SPRINGFIELD, IL 62703
PH (217) 789-8367



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: JAMES A. COLBROOK JR., P.E.
PROJECT MANAGER: SCOTT D. SANFORD, S.E., P.E.

WHKS & CO.
ENGINEERING
7018 KINGSMILL CT.,
SPRINGFIELD, IL
(217) 483-9457
DESIGN FIRM #184001036

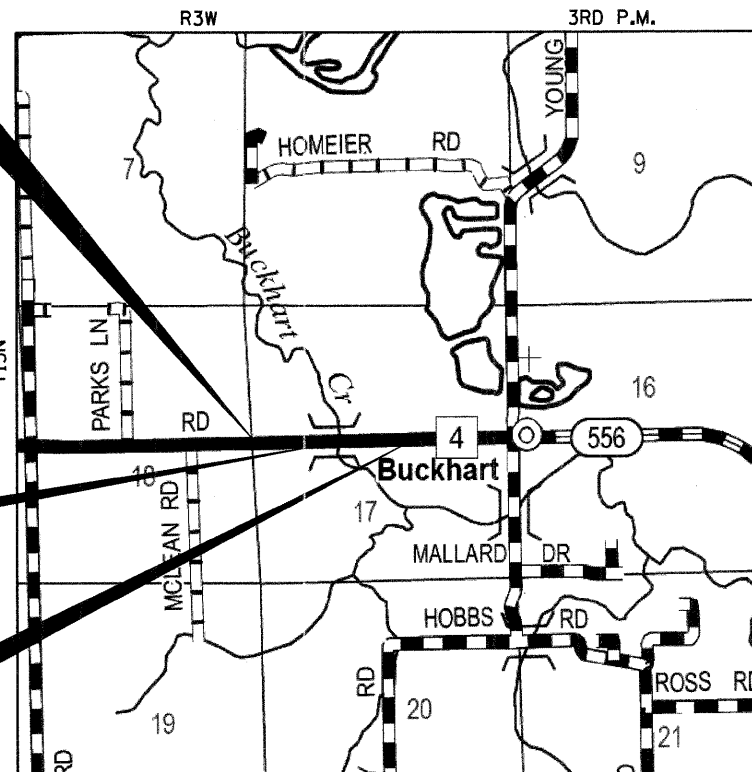
CONTRACT NO. 93556

**BEGIN IMPROVEMENT
STA. 97 + 17.00**

**BRIDGE REPLACEMENT
STA. 99 + 96.00**

EXIST SN 084-0080
PROP SN 084-0480

**END IMPROVEMENT
STA. 103 + 63.00**



LOCATION MAP SCALE
LOCATION MAP

TOTAL LENGTH = 646.00 FEET (0.122 MI)
NET LENGTH = 646.00 FEET (0.122 MI)

BRIDGE REPLACEMENT WITH A 3-SPAN PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE ON CONCRETE PILE BENT ABUTMENTS AND PIERS, 2" (MIN.) HMA WEARING SURFACE, 227'-9" BACK TO BACK OF ABUTMENTS, 33'-0" FACE TO FACE OF RAIL AND 0° SKEW.

Expires: 11/30/2011

APPROVED Sept. 8 20 11
Tom C. Zedler
COUNTY ENGINEER

PASSED Tamara H. Fortson 20 11
September 15, 2011
DISTRICT SIX ENGINEER OF
LOCAL ROADS AND STREETS

Ron Dechambeau 9-15-11
DISTRICT SIX ENGINEER OF
CONSTRUCTION

Released For
Bid Based on
Limited Review September 15 20 11
Roger L. Siskel
DEPUTY DIRECTOR OF HIGHWAYS
REGION FOUR ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SUMMARY OF QUANTITIES

GENERAL NOTES

CODE NUMBER	PAY ITEM	UNIT	TOTAL
20101000	TEMPORARY FENCE	FOOT	815
20200100	EARTH EXCAVATION	CU YD	113
20300100	CHANNEL EXCAVATION	CU YD	320
28000400	PERIMETER EROSION BARRIER	FOOT	1,180
28100109	STONE RIPRAP, CLASS A5	SQ YD	770
28200200	FILTER FABRIC	SQ YD	770
35101400	AGGREGATE BASE COURSE, TYPE B	TON	36
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	35
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	20
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	30
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	137
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	10
44000100	PAVEMENT REMOVAL	SQ YD	186
48100500	AGGREGATE SHOULDERS, TYPE A 6"	SQ YD	627
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	287
50300225	CONCRETE STRUCTURES	CU YD	108.1
50300280	CONCRETE ENCASEMENT	CU YD	5.8
50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	7,467
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	13,470
50901050	STEEL RAILING, TYPE SM	FOOT	456
51200959	FURNISHING METAL SHELL PILES 14" X 0.312"	FOOT	1,690
51202305	DRIVING PILES	FOOT	1,690
51203200	TEST PILE METAL SHELLS	EACH	2
51500100	NAME PLATES	EACH	1
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	830
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	1,360
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	70.3
63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	225.0
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3
63200310	GUARDRAIL REMOVAL	FOOT	304
67100100	MOBILIZATION	L SUM	1
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	558
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	3
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.5
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1
X5080600	MECHANICAL SPLICERS	EACH	56

- WHERE PERMANENT SURVEY MARKERS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE DISTURBED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THE LOCATION.
- THE ENGINEER SHALL NOT GUARANTEE THE WORK OF ANY CONTRACTOR OR SUBCONTRACTOR, SHALL HAVE NO SUPERVISION OF THE PERSONS DOING THE WORK, SHALL HAVE NO CHARGE OF THE WORK, SHALL NOT BE RESPONSIBLE FOR SAFETY IN, ON, OR ABOUT THE JOB SITE OR HAVE ANY CONTROL OF THE SAFETY OR ADEQUACY OF ANY EQUIPMENT, BUILDING COMPONENT, SCAFFOLDING, SUPPORT, FORMS OR OTHER WORK AIDS.
- THE FOLLOWING RATES WERE USED IN CALCULATION QUANTITIES FOR THIS PROJECT:
 AGGREGATE SHOULDERS: 2.05 TONS/CU YD
 AGGREGATE BASE AND SURFACE COURSE: 2.05 TONS/CU YD
 BITUMINOUS MATERIALS (COVER AND SEAL COAT): 0.35 GAL/SQ YD
 BITUMINOUS MATERIALS (PRIME COAT): 0.10 GAL/SQ YD
 SEAL COAT AGGREGATE: 0.30 GAL/SQ YD
 HOT MIX ASPHALT: 23 LBS/SQ YD
 112 LBS/SQ YD/INCH
- CONTRACTOR SHALL FOLLOW CONSTRUCTION REQUIREMENTS OF SECTION 611 WHEN EXISTING FIELD TILE IS ENCOUNTERED UNLESS DIRECTED OTHERWISE BY THE ENGINEER. THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL REPLACE ALL STREET SIGNS REMOVED DURING CONSTRUCTION AS NEAR AS POSSIBLE TO THEIR ORIGINAL LOCATION OR AS DETERMINED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES FOR THE WORK ITEMS SPECIFIED.
- THE PROPOSED GRADE ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEETS AND CROSS SECTION SHEETS ARE THE ELEVATIONS FOR THE FINISHED SURFACE AT THE LOCATIONS INDICATED.
- UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION AND THEIR TRUE LOCATION IS NOT GUARANTEED TO BE AS SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF THE UTILITIES AND CARRY ON HIS/HER WORK OPERATIONS ACCORDINGLY.
- SEE SPECIAL PROVISIONS FOR DETOUR PLAN.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS			
ITEM	AGGREGATE COMPOSITION	ASPHALT GRADE	DESIGN AIR VOIDS
HMA SURFACE CSE	IL-9.5 OR 12.5 MIX "C"	PG 64-22	4.0% @ N50

HOT-MIX ASPHALT QUANTITIES BASED ON 112 LB./SQ. YD./INCH

GUARDRAIL SCHEDULE

LOCATION	63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS (FOOT)	63100045 TRAFFIC BARRIER TERMINAL, TYPE 2 (EACH)	63100087 TRAFFIC BARRIER TERMINAL, TYPE 6A (EACH)	63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT (EACH)
STA. 97+50.88 TO STA. 98+00.88, LT				1
STA. 98+00.88 TO STA. 98+38.38, LT	37.5			
STA. 98+38.38 TO STA. 98+82.13, LT			1	
STA. 98+19.48 TO STA. 98+20.73, RT		1		
STA. 98+20.73 TO STA. 98+38.38, RT	25.0			
STA. 98+38.38 TO STA. 98+82.13, RT			1	
STA. 101+09.88 TO STA. 101+53.63, LT			1	
STA. 101+53.63 TO STA. 102+78.63, LT	125.0			
STA. 102+78.63 TO STA. 103+28.63, LT				1
STA. 101+09.88 TO STA. 101+53.63, RT			1	
STA. 101+53.63 TO STA. 101+91.13, RT	37.5			
STA. 101+91.13 TO STA. 102+41.13, RT				1
TOTAL	225.0	1	4	3

EARTHWORK SCHEDULE

LOCATION	20200100	23000100	FOR INFORMATIONAL ONLY		20400800
	EARTH EXCAVATION	CHANNEL EXCAVATION	EXCAVATION TO BE USED IN EMBANKMENT (ADJUSTED FOR SHRINKAGE) (EXC. x 0.75)	EMBANKMENT (FILL)	EMBANKMENT (FILL)
	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.
STA. 97+17.00 TO STA. 98+82.13	71		53	92	-39
STA. 98+82.13 TO STA. 101+09.88		320	240		240
STA. 101+09.88 TO STA. 103+63.00	42		32	153	-121
TOTAL	113	320	325	245	80

EARTH EXCAVATION SHRINKAGE FACTOR = 25%

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

USER NAME = dheberling	DESIGNED -	REVISED -
FILE NAME = D612345-shr-general	CHECKED -	REVISED -
PLOT DATE = 9/7/2011	DRAWN -	REVISED -
PLOT TIME = 11:08:33 AM	CHECKED -	REVISED -

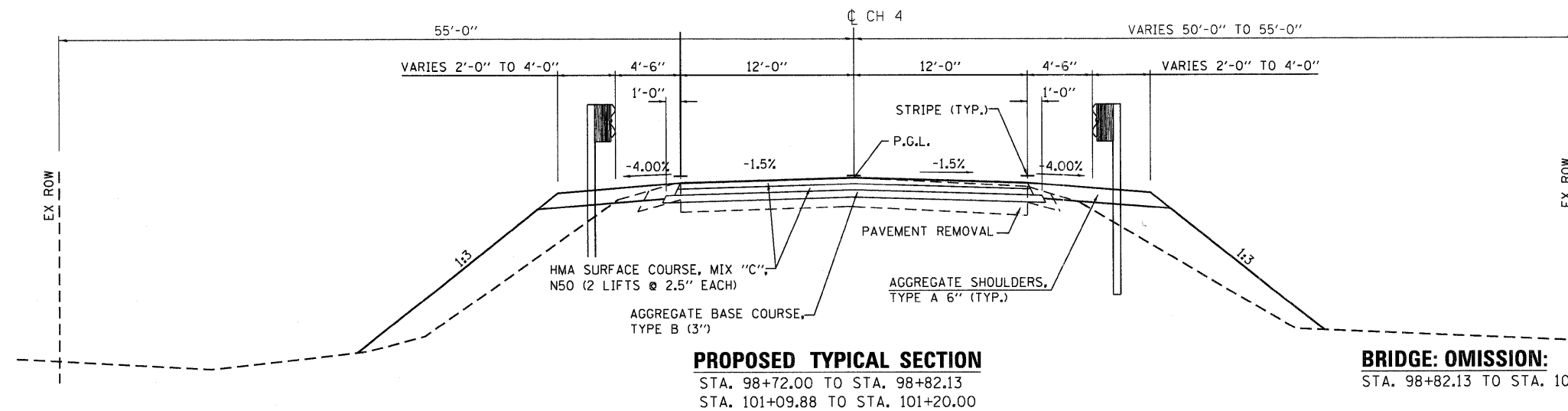
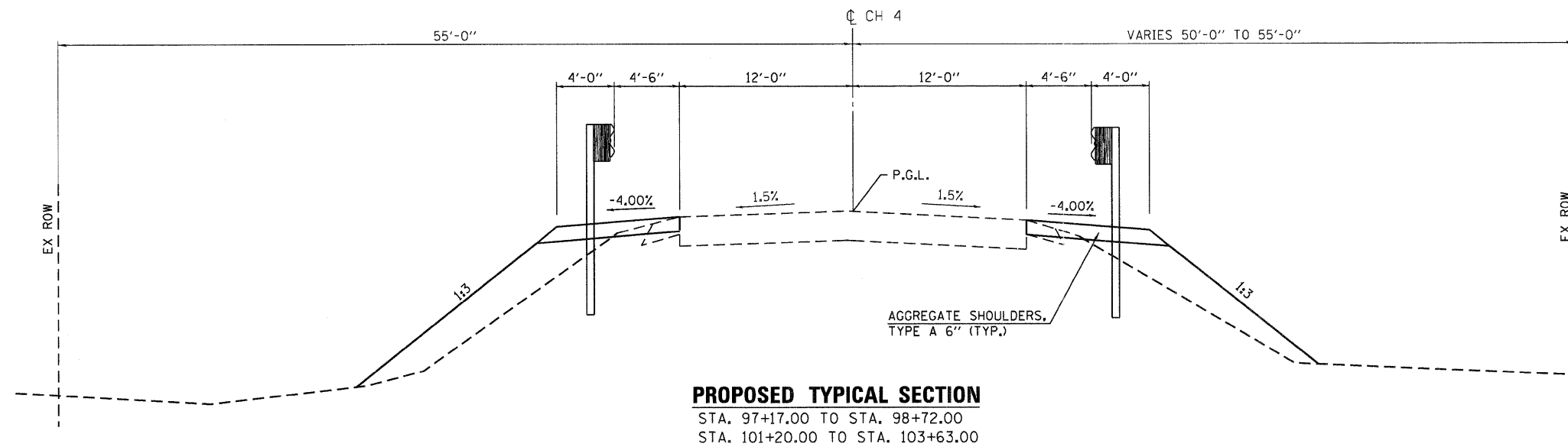
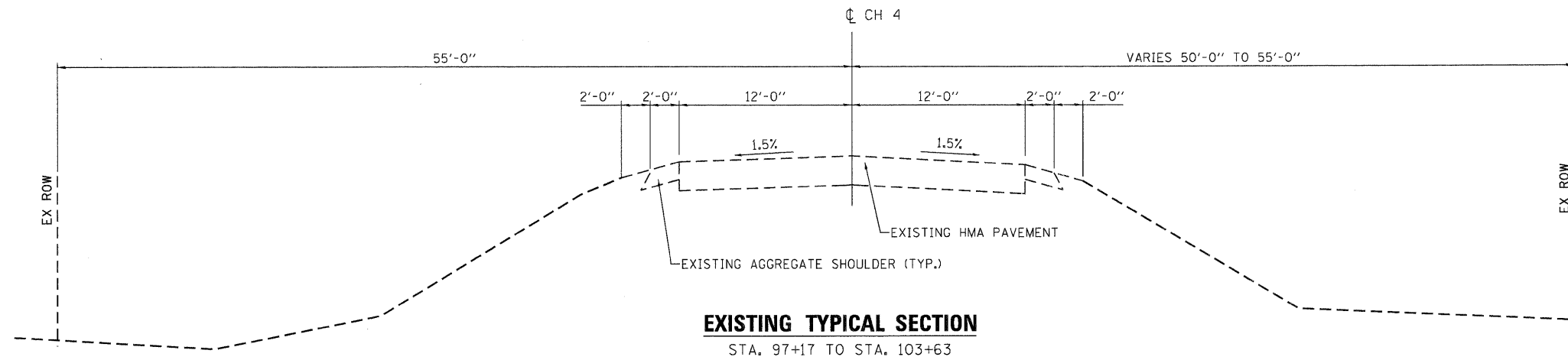
WHKS & CO.
 ENGINEERING
 7018 KINGSMILL CT.,
 SPRINGFIELD, IL
 (217) 483-9457
 DESIGN FIRM #184001036

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

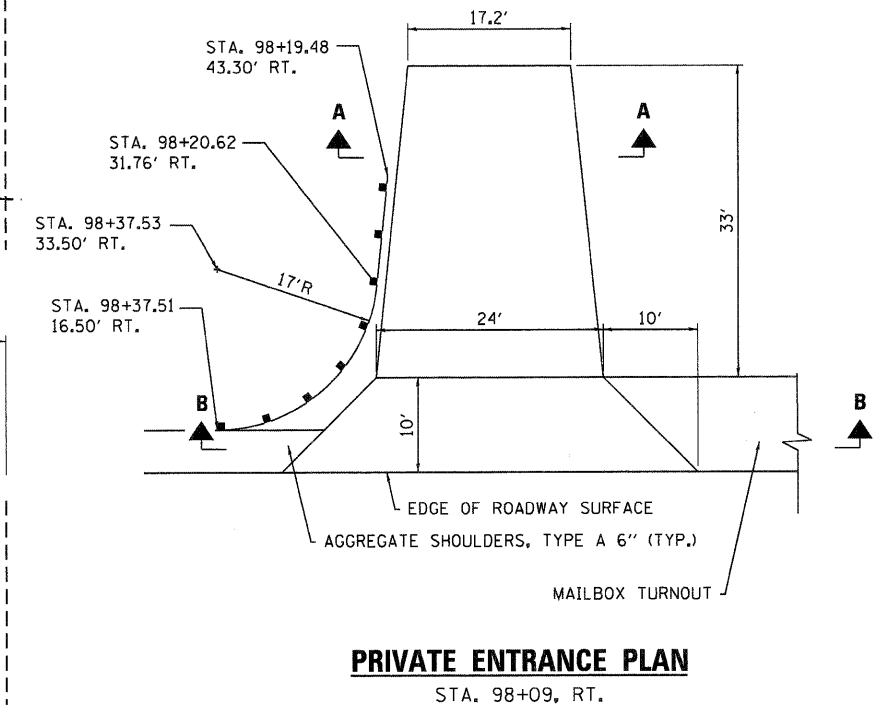
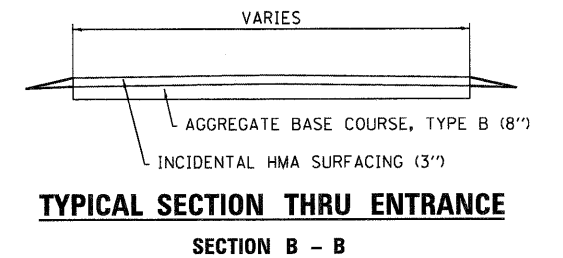
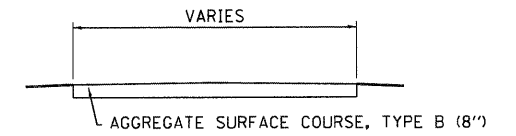
**GENERAL NOTES AND SUMMARY OF QUANTITIES
 CH 4 OVER BUCKART CREEK**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	08-00119-04-BR	SANGAMON	25	2
SN 084-0480			CONTRACT NO. 99556	
ILLINOIS FED. AID PROJECT				



BRIDGE: OMISSION:
STA. 98+82.13 TO STA. 101+09.88



USER NAME = dheberling	DESIGNED -	REVISED -
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PLOT DATE = 9/7/2011	DRAWN -	REVISED -
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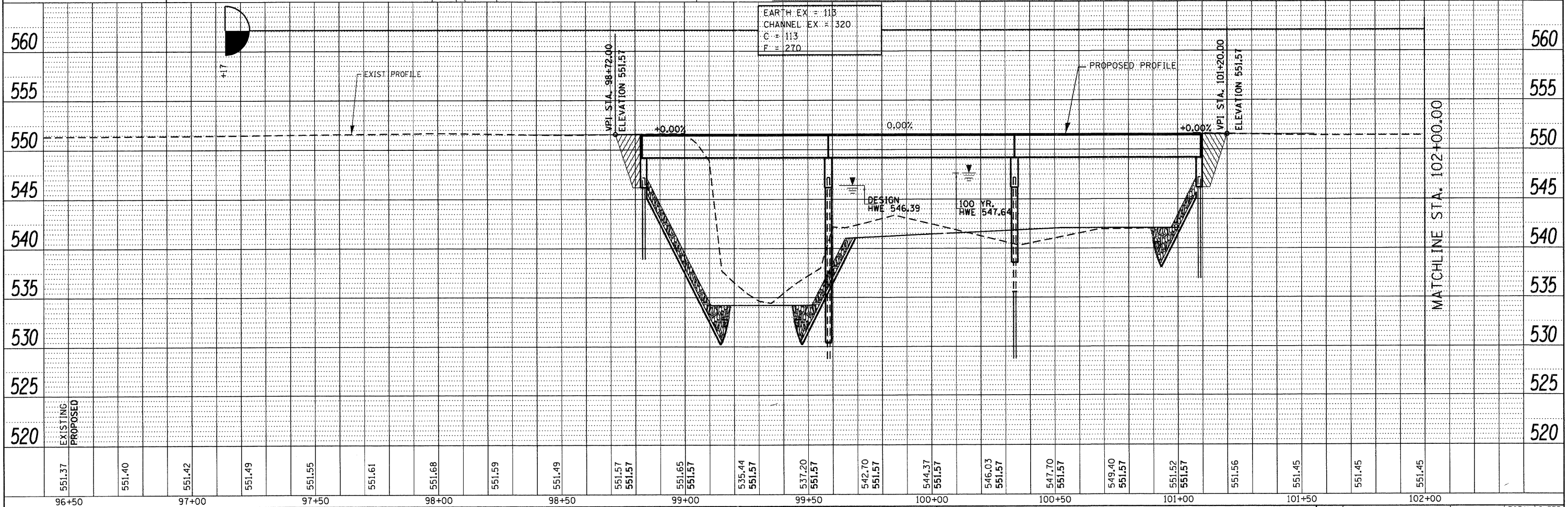
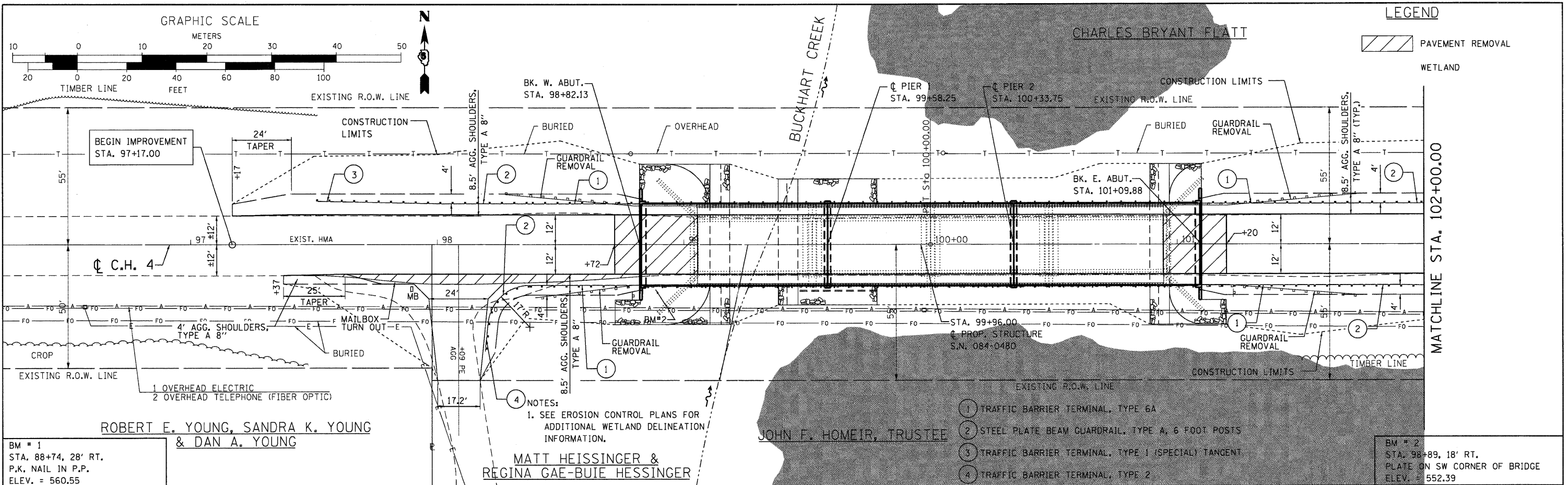
WHKS & CO.
ENGINEERING
7018 KINGSMILL CT.,
SPRINGFIELD, IL
(217) 483-9457
DESIGN FIRM #184001038

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND ENTRANCE DETAILS
CH 4 OVER BUCKHART CREEK

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	08-00119-04-BR	SANGAMON	25	3
SN 084-0480			CONTRACT NO. 93556	
ILLINOIS FED. AID PROJECT				



DATE	
BY	
REVIEWED	
ALIGNED	
CHECKED	
FILE NAME	
PLAN NO.	

DATE	
BY	
REVIEWED	
GRADES CHECKED	
BM NOTED	
STRUCTURE NOTATIONS OK'D	
PROFILE NO.	

BM # 1
STA. 88+74, 28' RT.
P.K. NAIL IN P.P.
ELEV. = 560.55

ROBERT E. YOUNG, SANDRA K. YOUNG
& DAN A. YOUNG

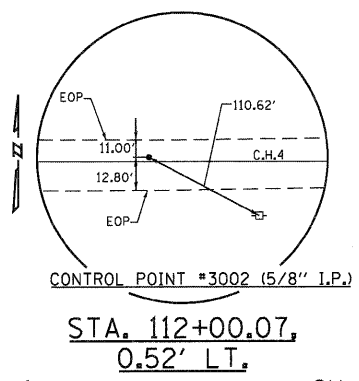
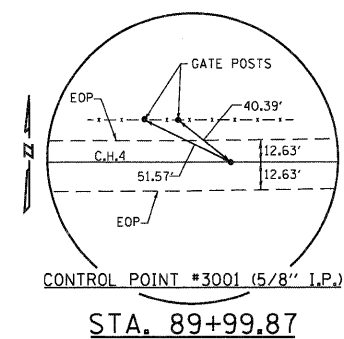
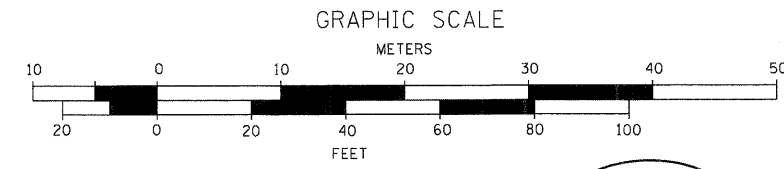
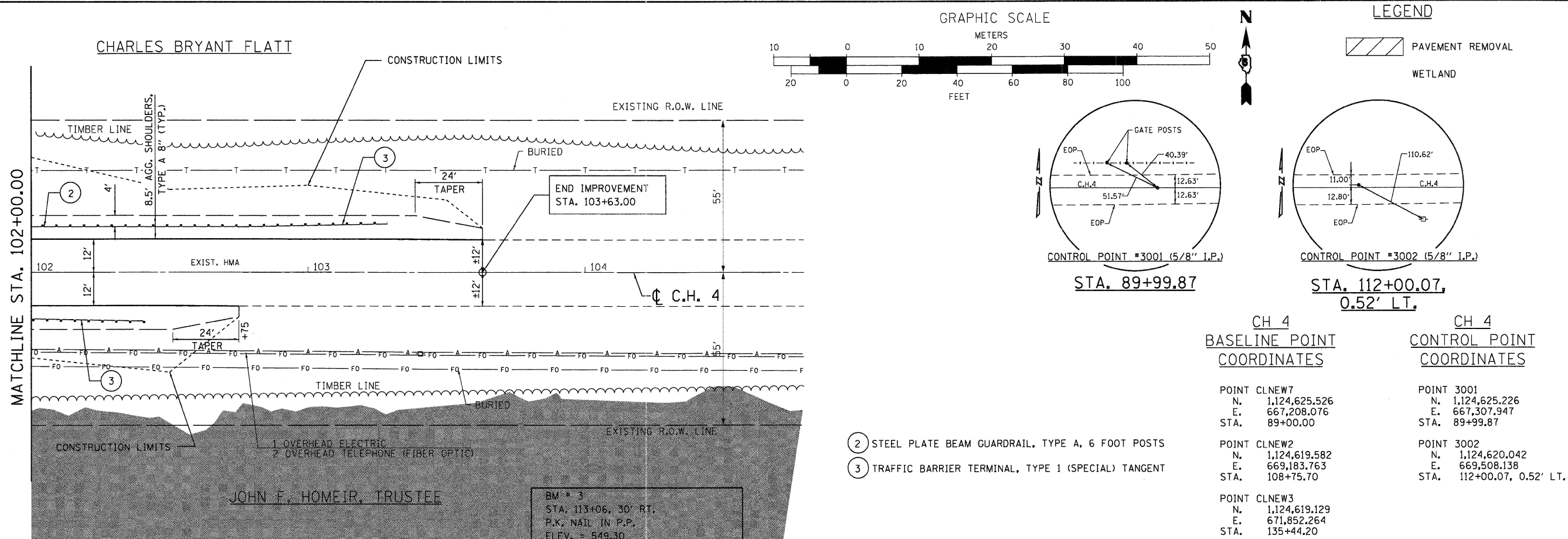
MATT HEISSINGER &
REGINA GAE-BUIE HEISSINGER

BM # 2
STA. 98+89, 18' RT.
PLATE ON SW CORNER OF BRIDGE
ELEV. = 552.39

USER NAME = dhebarling	DESIGNED -	REVISED -		7018 KINGSMILL CT., SPRINGFIELD, IL (217) 483-9457 DESIGN FIRM #184001038	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			PLAN AND PROFILE CH 4 OVER BUCKHART CREEK			F.A.S. RTE. 556	SECTION 08-00119-04-BR	COUNTY SANGAMON	TOTAL SHEETS 25	SHEET NO. 4
FILE NAME = D612345-shr.plnprf	CHECKED -	REVISED -						SCALE: 1" = 20"	SHEET NO. 1 OF 2 SHEETS	STA. 96+50.00 TO STA. 102+00.00	SN 084-0480	CONTRACT NO. 93556	ILLINOIS FED. AID PROJECT		
PLOT DATE = 9/7/2011	DRAWN -	REVISED -													
PLOT TIME = 11:11:00 AM	CHECKED -	REVISED -													

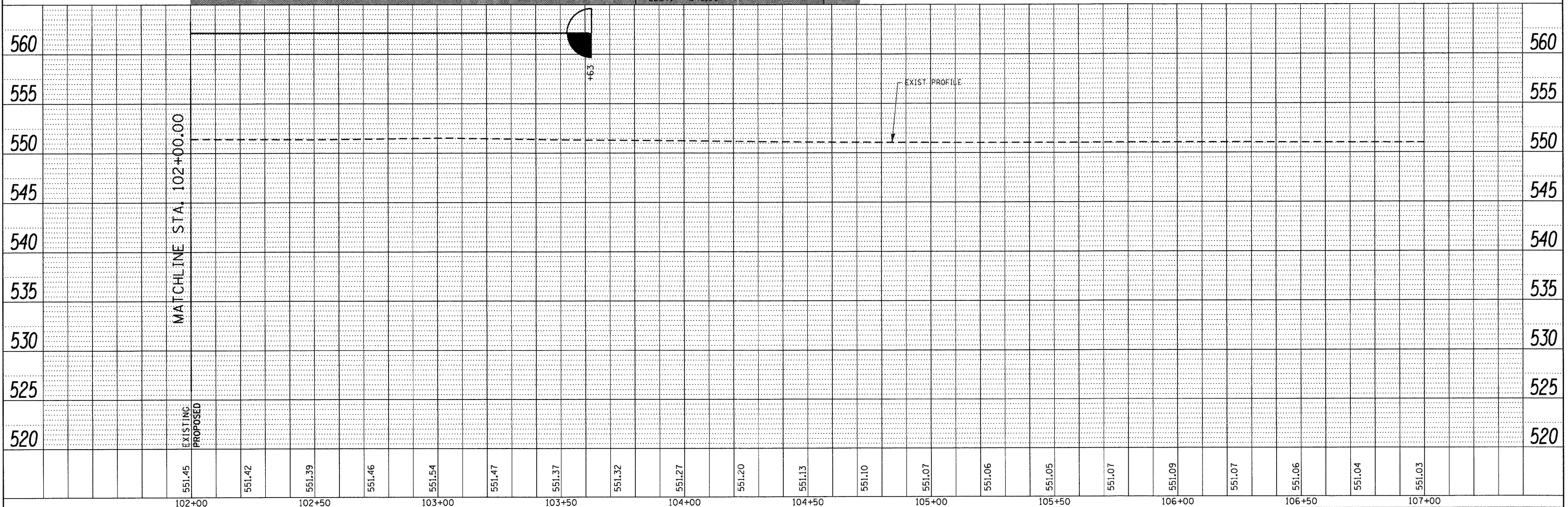
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REVIEWED	
PLANNED	
NOTED	
NO.	

DATE	
BY	
REVIEWED	
PLANNED	
NOTED	
NO.	

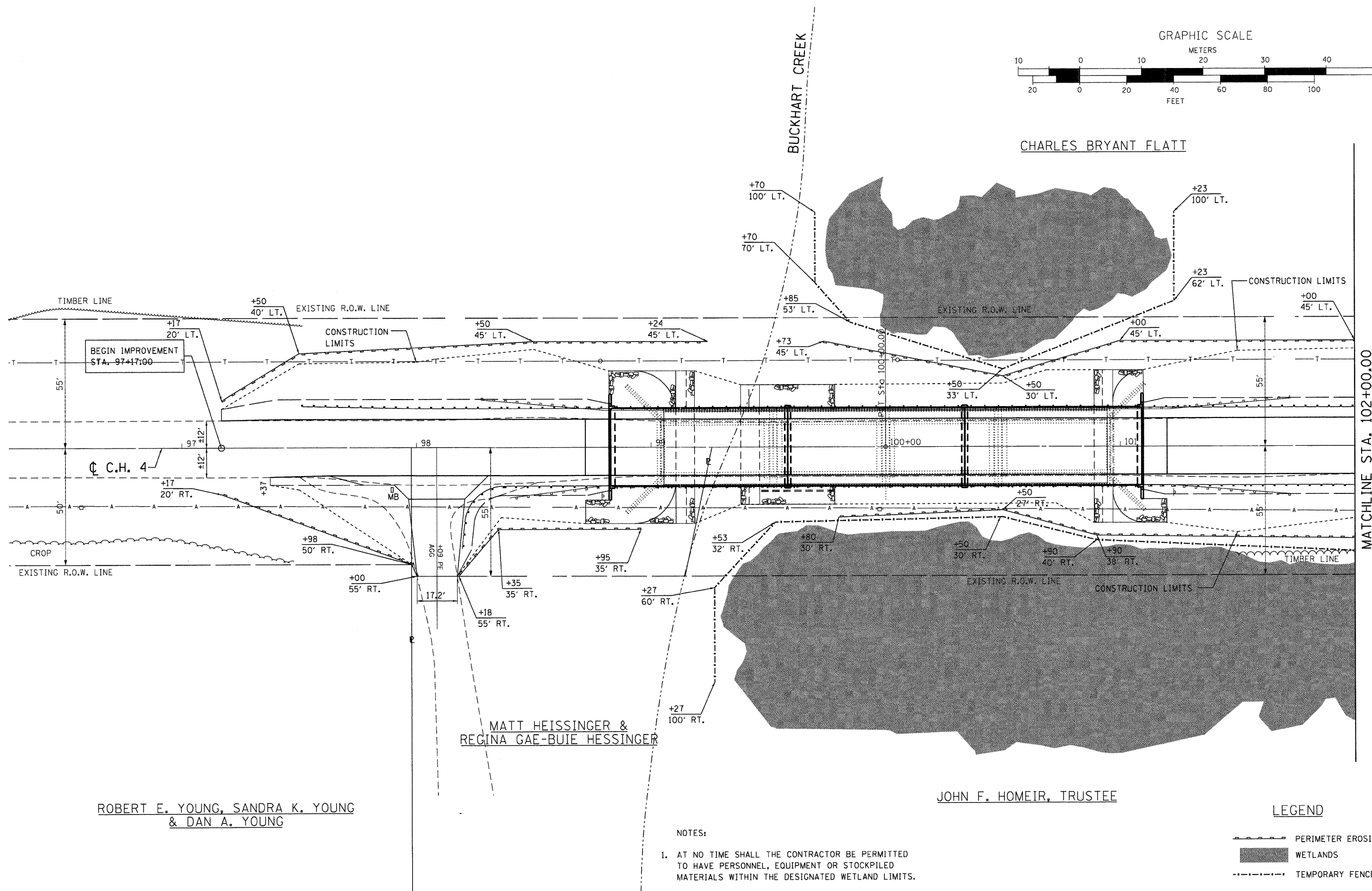
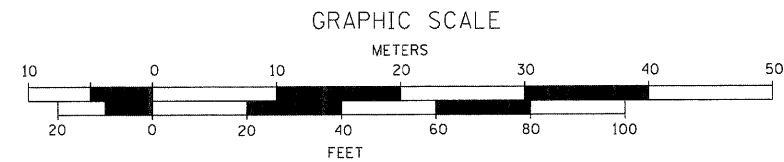


- ② STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ③ TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

CH 4 BASELINE POINT COORDINATES		CH 4 CONTROL POINT COORDINATES	
POINT CLNEW7	N. 1,124,625.526	POINT 3001	N. 1,124,625.226
E. 667,208.076		E. 667,307.947	
STA. 89+00.00		STA. 89+99.87	
POINT CLNEW2	N. 1,124,619.582	POINT 3002	N. 1,124,620.042
E. 669,183.763		E. 669,508.138	
STA. 108+75.70		STA. 112+00.07, 0.52' LT.	
POINT CLNEW3	N. 1,124,619.129		
E. 671,852.264			
STA. 135+44.20			



USER NAME = dheberling	DESIGNED -	REVISED -		7018 KINGSMILL CT., SPRINGFIELD, IL (217) 483-9457 DESIGN FIRM #184001036	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		PLAN AND PROFILE CH 4 OVER BUCKHART CREEK		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILE NAME = D612345-ent-plnprf	CHECKED -	REVISED -							556	08-00119-04-BR	SANGAMON	25	5
PLLOT DATE = 9/7/2011	DRAWN -	REVISED -			SN 084-0480		CONTRACT NO. 93556		ILLINOIS FED. AID PROJECT				
PLLOT TIME = 11:11:03 AM	CHECKED -	REVISED -			SCALE: 1" = 20"		SHEET NO. 2 OF 2 SHEETS		STA. 102+00.00 TO STA. 105+00.00				



ROBERT E. YOUNG, SANDRA K. YOUNG
& DAN A. YOUNG

MATT HEISSINGER &
REGINA GAE-BUIE HESSINGER

JOHN F. HOMEIR, TRUSTEE

- NOTES:
1. AT NO TIME SHALL THE CONTRACTOR BE PERMITTED TO HAVE PERSONNEL, EQUIPMENT OR STOCKPILED MATERIALS WITHIN THE DESIGNATED WETLAND LIMITS.

LEGEND

	PERIMETER EROSION BARRIER
	WETLANDS
	TEMPORARY FENCE

USER NAME = dheberling	DESIGNED -	REVISED -
FILE NAME = D612345-sh1-EROS.dwg	CHECKED -	REVISED -
PLOT DATE = 9/7/2011	DRAWN -	REVISED -
PLOT TIME = 11:11:06 AM	CHECKED -	REVISED -

WHKS & CO.
ENGINEERING

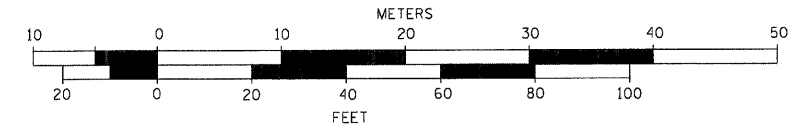
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(217) 483-9457
DESIGN FIRM #184001036

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

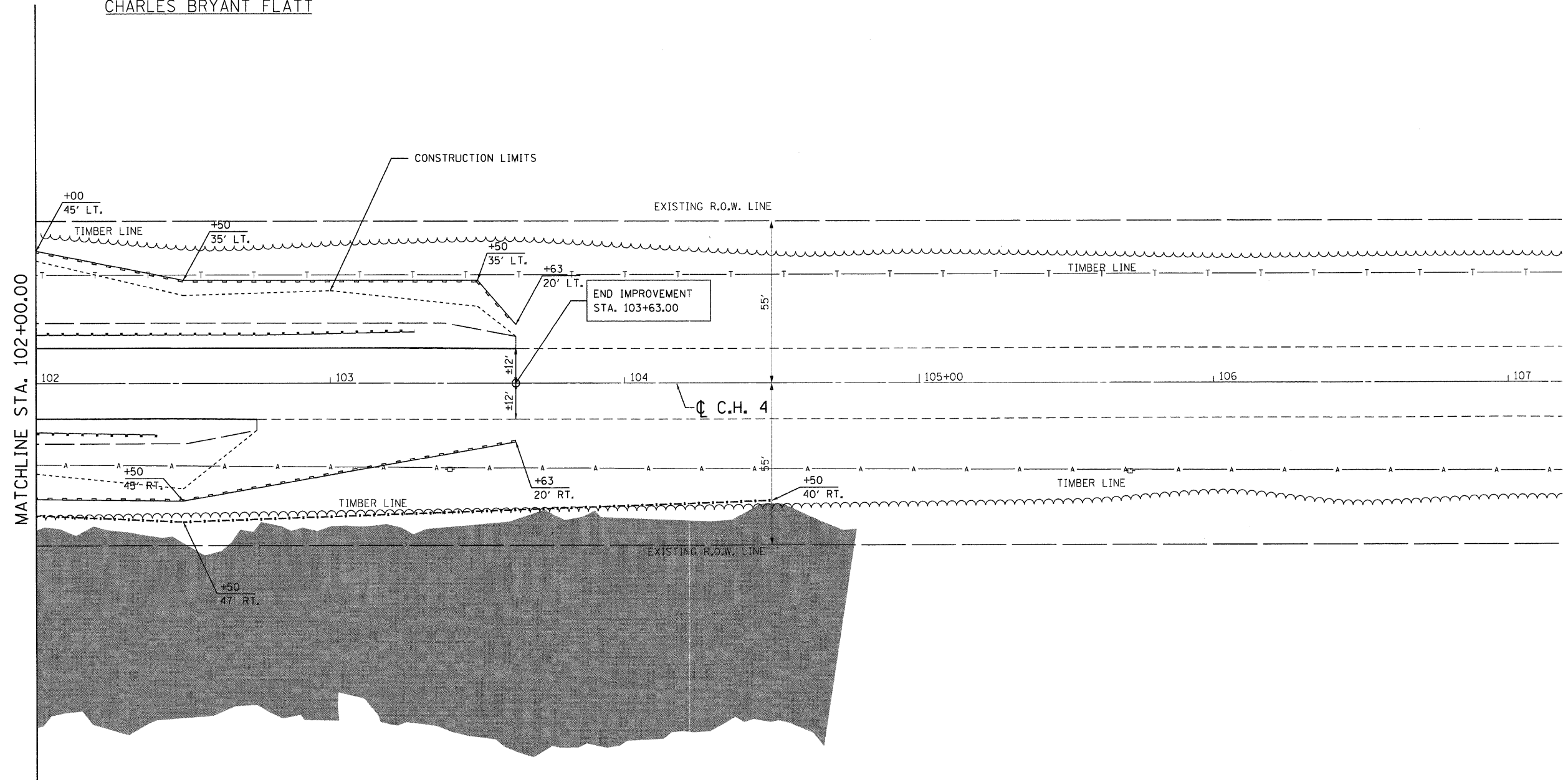
EROSION CONTROL PLANS CH 4 OVER BUCKHART CREEK		
SCALE: 1" = 20'	SHEET NO. 1 OF 2 SHEETS	STA. 95+50.00 TO STA. 102+00.00

F.A.S. RTE. 556	SECTION 08-00119-04-BR	COUNTY SANGAMON	TOTAL SHEETS 25	SHEET NO. 6
SN 084-0480		CONTRACT NO. 93556		
ILLINOIS FED. AID PROJECT				

GRAPHIC SCALE



CHARLES BRYANT FLATT



JOHN F. HOMEIR, TRUSTEE

NOTES:

1. AT NO TIME SHALL THE CONTRACTOR BE PERMITTED TO HAVE PERSONNEL, EQUIPMENT OR STOCKPILE MATERIALS WITHIN THE DESIGNATED WETLAND LIMITS.

LEGEND

- PERIMETER EROSION BARRIER
- ██████ WETLAND
- - - - - TEMPORARY FENCE

USER NAME = dheberling	DESIGNED -	REVISED -
FILE NAME = D612345-sh1-EROS.dwg	CHECKED -	REVISED -
PLOT DATE = 9/7/2011	DRAWN -	REVISED -
PLOT TIME = 11:11:08 AM	CHECKED -	REVISED -

WHKS & CO.
ENGINEERING
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SPRINGFIELD, IL
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DESIGN FIRM #184001036

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLANS
CH 4 OVER BUCKHART CREEK

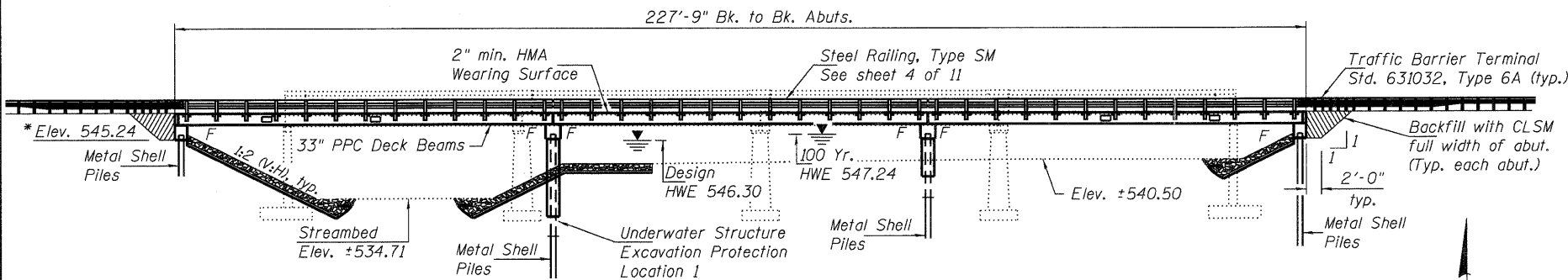
SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. 102+00.00 TO STA. 107+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	08-00119-04-BR	SANGAMON	25	7
SN 084-0480			CONTRACT NO. 93556	
ILLINOIS FED. AID PROJECT				

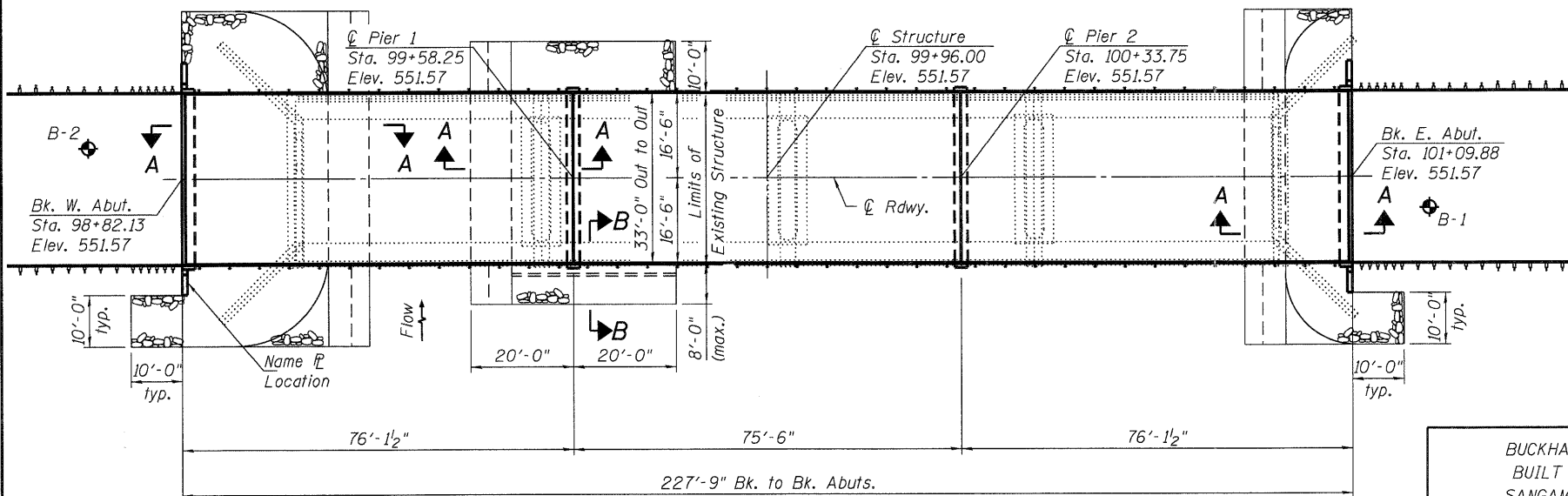
Bench Mark: BM "1" PK. nail in power pole S. of pavement, Sta. 88+74, 28' Rt., Elev. 560.55

Existing Structure: SN 084-0080, 4 span PPC Deck Beam bridge on concrete abutments and solid wall concrete piers on timber piles. 192'-0" back-to-back of abutments, 33'-0" out-to-out. Road to be closed during construction.

No Salvage



ELEVATION



PLAN

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut.	Pier 1	Pier 2	E. Abut.
	545.24	531.00	534.50	545.24

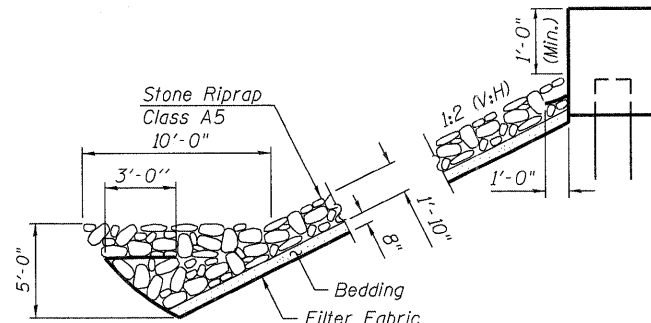
PROPOSED PROFILE GRADE

(Along C/L CH 4)

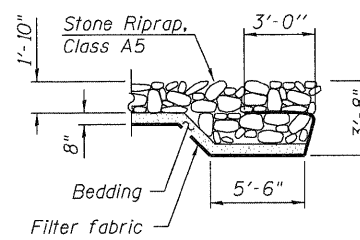
Construction Permits: The requirements of the IDNR - Office of Water Resources have been fulfilled in accordance with Statewide Permit No. 2.

WATERWAY INFORMATION

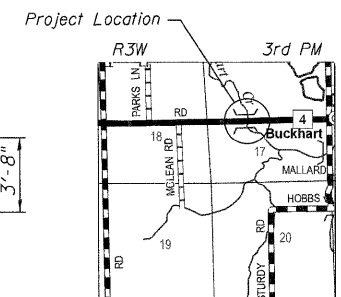
Flood	Freq. Yr.	Q	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
Design	30	5,658	1,337	1,462	546.3	0.16	0.09	546.46	546.39
Base	100	7,440	1,582	1,735	547.24	0.5	0.4	547.74	547.64
Max. Calc.	500	9,820	1,874	2,012	548.4	0.87	0.72	549.27	549.12



SECTION A-A



SECTION B-B



LOCATION SKETCH

INDEX OF SHEETS

- General Plan and Elevation
- 3. PPC Deck Beam Details
- Superstructure Details
- Steel Railing, Type SM
- Abutments
- Pier 1
- Pier 2
- Metal Shell Pile Details
- 11. Soil Boring Logs

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. Reinforcement bars designated (E) shall be epoxy coated. 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 nominal bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.		320	320
Stone Riprap, Class A5	Sq. Yd.		770	770
Filter Fabric	Sq. Yd.		770	770
Hot-Mix Asphalt Surface Course, Mix "C", N50	Ton	120		120
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		287	287
Concrete Structures	Cu. Yd.		108.1	108.1
Concrete Encasement	Cu. Yd.		5.8	5.8
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	7,467		7,467
Reinforcement Bars, Epoxy Coated	Pound		13,470	13,470
Steel Railing, Type SM	Foot	456		456
Furnishing Metal Shell Piles 14" x 0.312"	Foot		1,690	1,690
Driving Piles	Foot		1,690	1,690
Test Pile Metal Shells	Each		2	2
Name Plates	Each			1
Waterproofing Membrane System	Sq. Yd.	830		830
Portland Cement Mortar Fairing Course	Foot	1,360		1,360
Controlled Low-Strength Material	Cu. Yd.		70.3	70.3
Underwater Structure Excavation Protection - Location 1	Each		1	1
Mechanical Splicers	Each		56	56

LOADING HL-93

50 psf future wearing surface

DESIGN SPECIFICATIONS

AASHTO LRFD 5th Edition with 2010 Interim Specifications

DESIGN STRESSES

FIELD UNITS

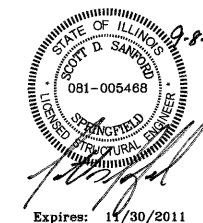
f'c = 3,500 psi
f'y = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
f'ci = 5,000 psi
f's = 270,000 psi (1/2" low-lax strands)
f'si = 201,960 psi (1/2" low-lax strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.15g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.29g
Soil Site Class = D



BUCKHART CREEK
BUILT 20 BY
SANGAMON COUNTY
SEC. 08-00119-04-BR
F.A.S. 556 STA. 99+96
STR. NO. 084-0480 LOADING HL93

NAME PLATE

See Std. 515001

GENERAL PLAN AND ELEVATION

C.H. 4 (F.A.S. 556)

OVER BUCKHART CREEK

SECTION 08-00119-04-BR

SANGAMON COUNTY

STRUCTURE NO. 084-0480

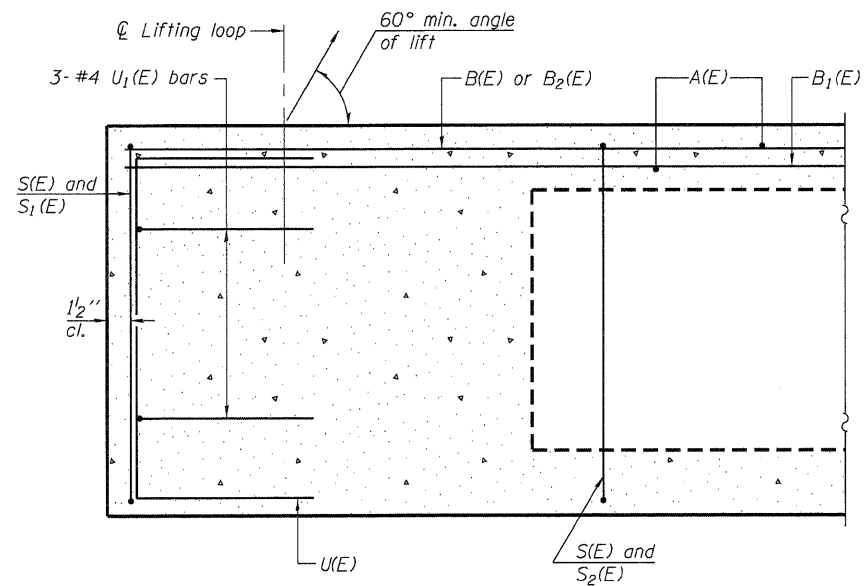
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dhaberling	TJZ	
FILE NAME	CHECKED	REVISIONS
D6_SNB848480.dgn	SDS	
PLOT DATE	DRAWN	REVISIONS
9/8/2011	DLH	
PLOT TIME	CHECKED	REVISIONS
6:59:13 AM	TJZ/SDS	

WHKS & CO.
ENGINEERING
7018 KINGSMILL CT.,
SPRINGFIELD, IL
(217) 483-9457
DESIGN FIRM #184001036

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 11 SHEETS

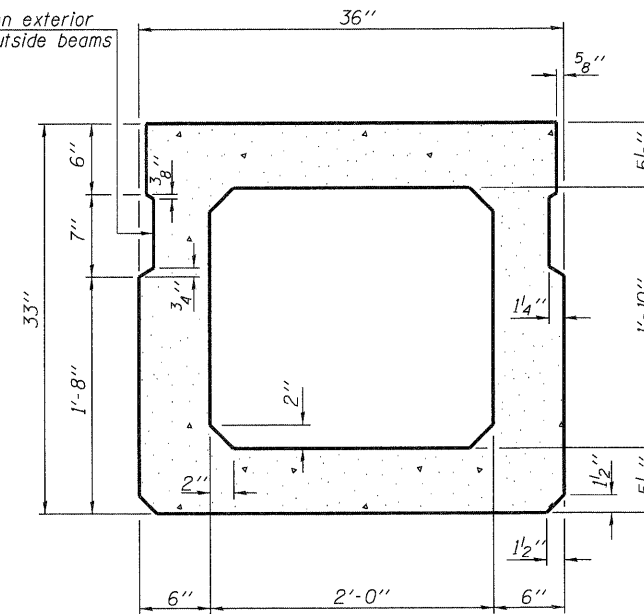
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	08-00119-04-BR	SANGAMON	25	8
				CONTRACT NO. 93556
ILLINOIS FED. AID PROJECT				



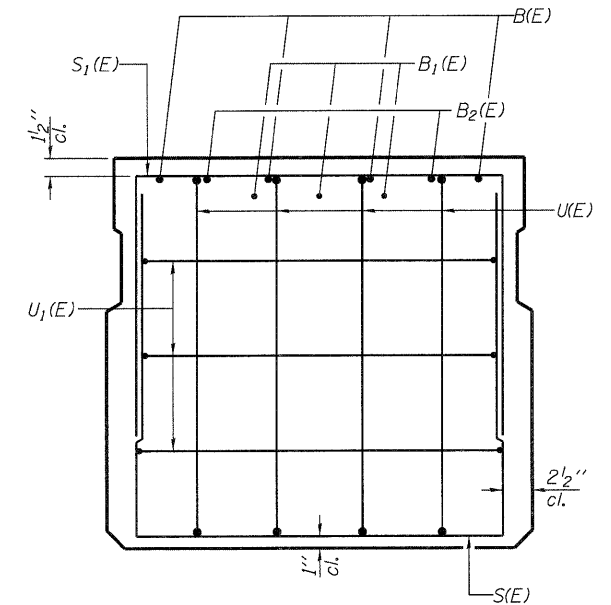
SECTION A-A

* Omit key on exterior face of outside beams

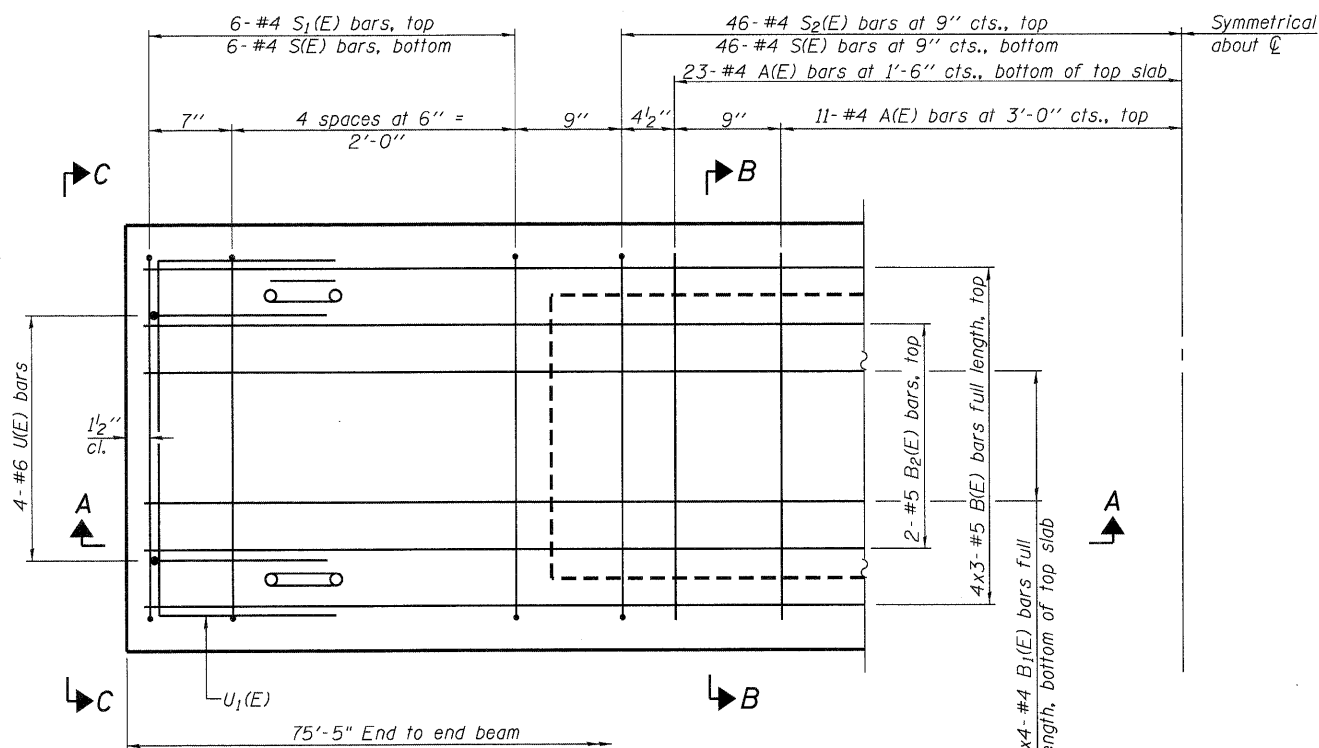
* Rail Post Anchor Devices to be cast into exterior face of outside beams. See sheet 5 of 11 for locations.



SECTION B-B
(Showing dimensions)



VIEW C-C

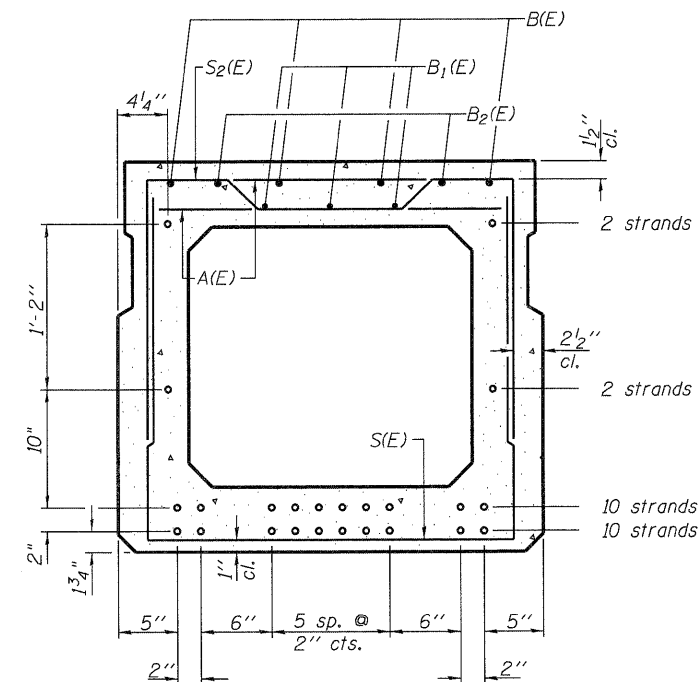


PLAN VIEW

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.

MINIMUM BAR LAP

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



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)	68	#4	2'-7"	—
B(E)	12	#5	26'-9"	—
B1(E)	12	#4	20'-4"	—
B2(E)	4	#5	10'-0"	—
S(E)	104	#4	7'-5"	U
S1(E)	12	#4	6'-3"	U
S2(E)	92	#4	6'-6"	U
U(E)	8	#6	5'-0"	C
U1(E)	6	#4	5'-0"	U

Note: See sheet 3 of 11 for additional details and Bill of Material.

PD-3336-0

7-1-10

USER NAME = dheberling	DESIGNED - TJZ	REVISED -
FILE NAME = 06.SN0840480.dgn	CHECKED - SDS	REVISED -
PLOT DATE = 9/7/2011	DRAWN - DLH	REVISED -
PLOT TIME = 11:11:17 AM	CHECKED - TJZ/SDS	REVISED -

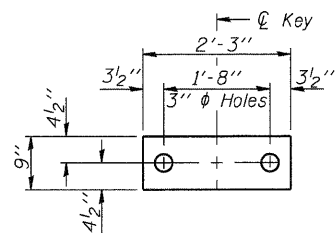
WHKS & CO.
ENGINEERING
7018 KINGSMILL CT.,
SPRINGFIELD, IL
(217) 483-9457
DESIGN FIRM #184001036

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

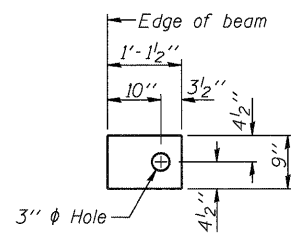
PPC DECK BEAM DETAILS
STRUCTURE NO. 084-0480

SHEET NO. 2 OF 11 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	08-00119-04-BR	SANGAMON	25	9
				CONTRACT NO. 93556
ILLINOIS FED. AID PROJECT				



FABRIC BEARING PAD
(Interior)

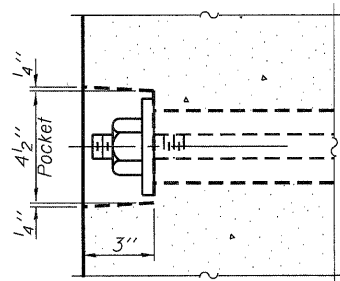


FABRIC BEARING PAD
(Exterior)

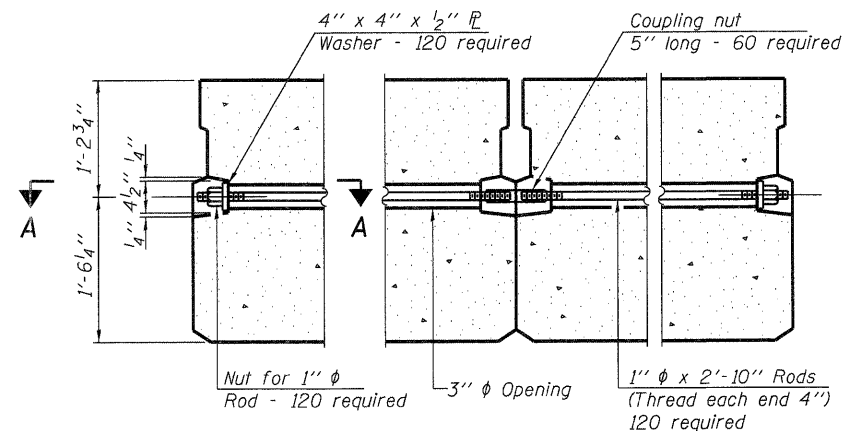
FIXED

Notes:

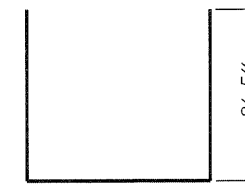
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



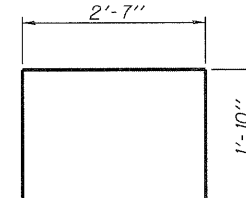
SECTION A-A



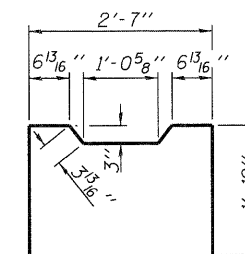
TYPICAL TRANSVERSE TIE ASSEMBLY



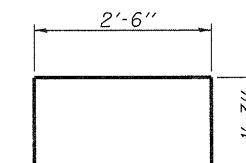
BAR S1(E)



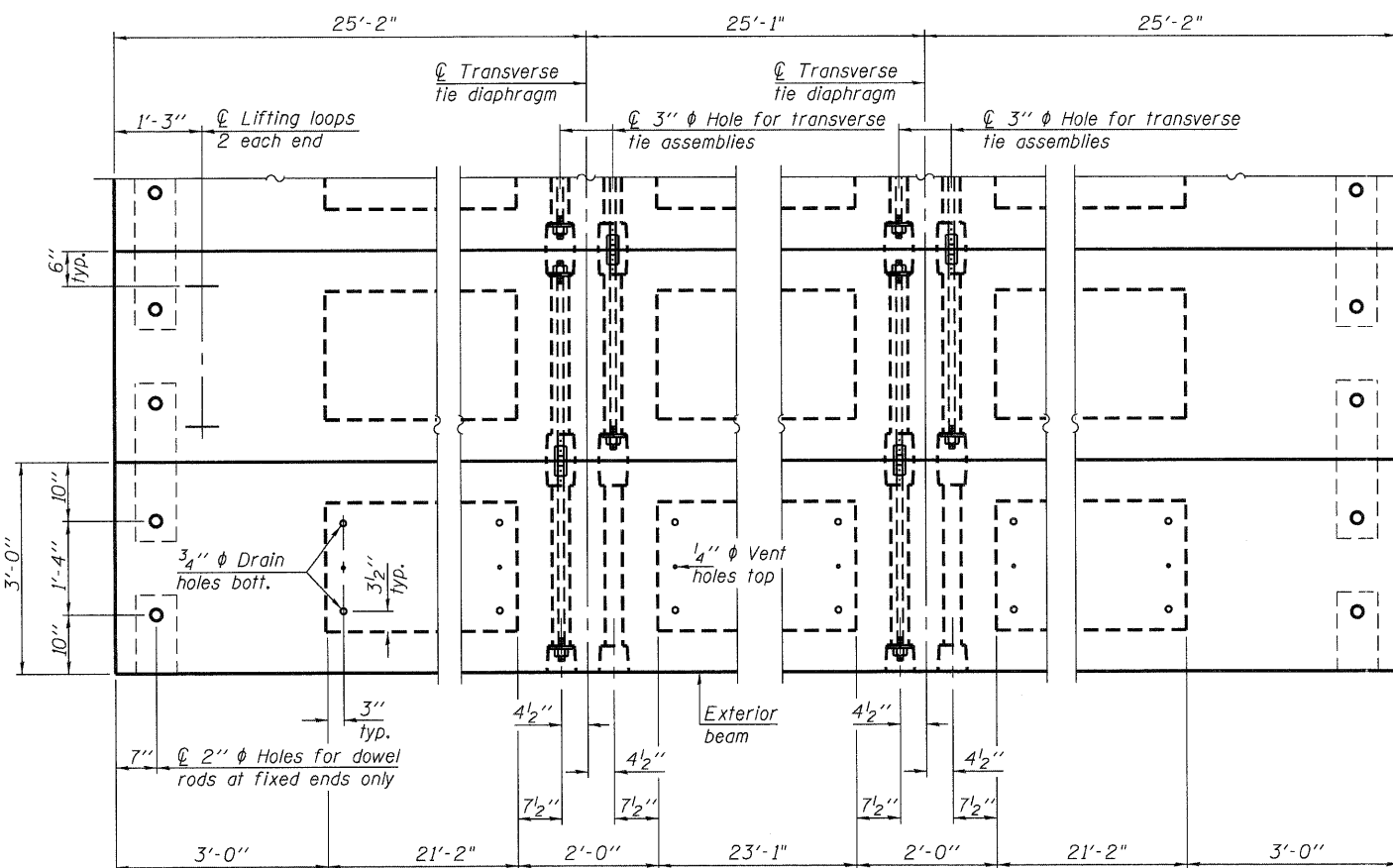
BAR S2(E)



BAR U1(E)



BAR U2(E)



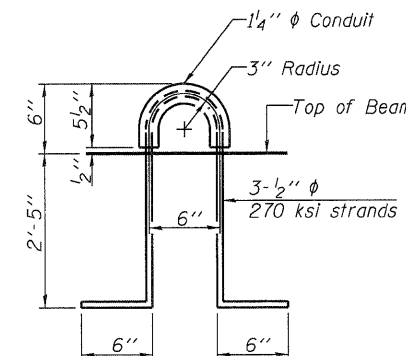
PLAN VIEW
(Typ. all spans)

Note:

Connect beams in pairs with the transverse tie configuration shown.

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" diameter 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" diameter 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.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (33" depth)	Sq. Ft.	7,467
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PD-3336-0D 7-1-10

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FILE NAME = DB.SN0840480.dgn	CHECKED - SDS	REVISED -
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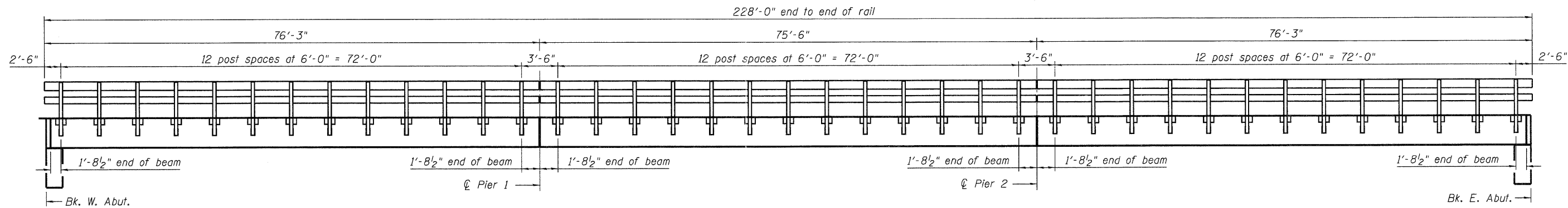
WHKS & CO.
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7018 KINGSMILL CT.,
SPRINGFIELD, IL
(217) 483-9457
DESIGN FIRM #184001306

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

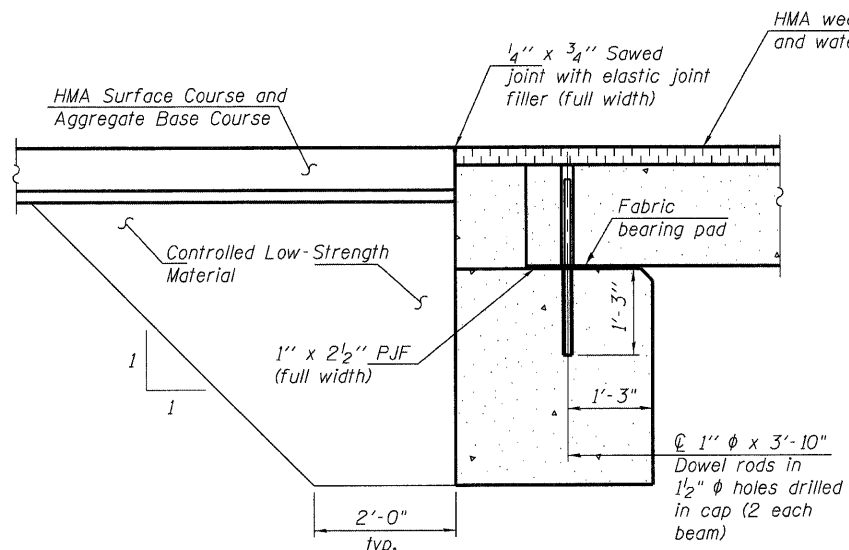
PPC DECK BEAM DETAILS
STRUCTURE NO. 084-0480

SHEET NO. 3 OF 11 SHEETS

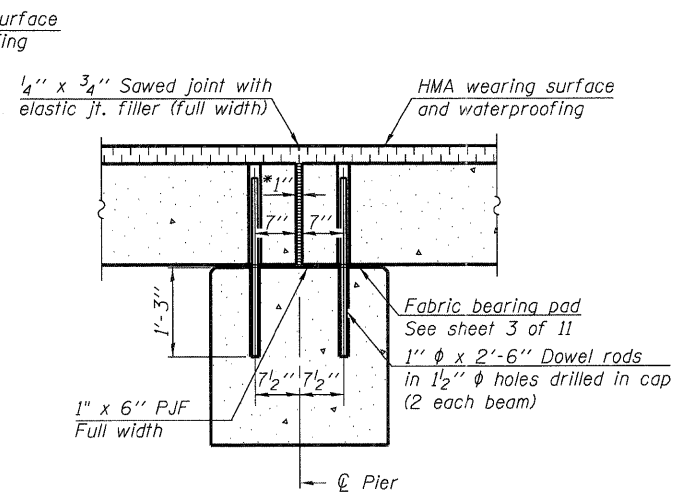
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556	08-00119-04-BR	SANGAMON	25	10
CONTRACT NO. 93556				
ILLINOIS FED. AID PROJECT				



RAIL POST SPACING

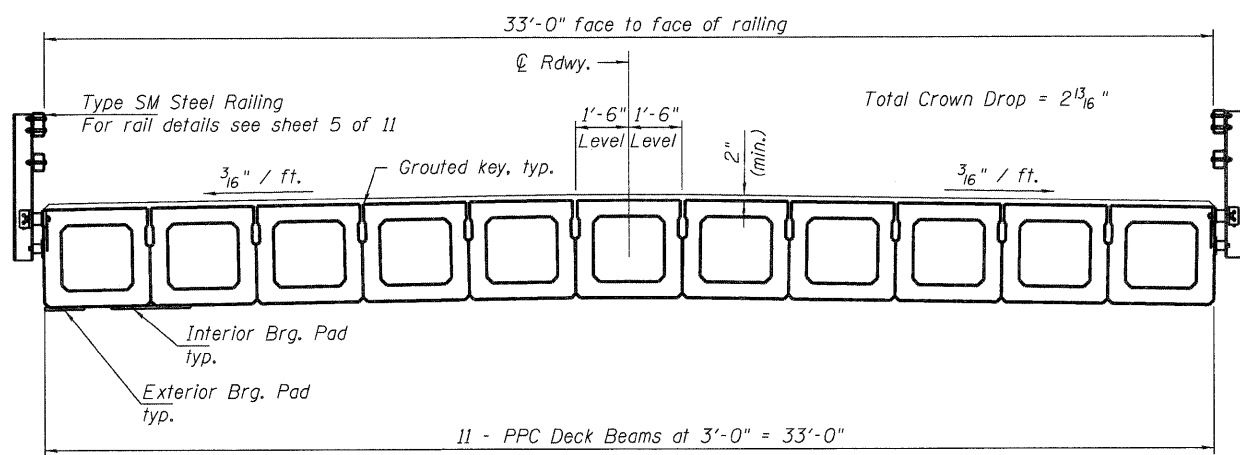


SECTION THRU ABUTMENTS

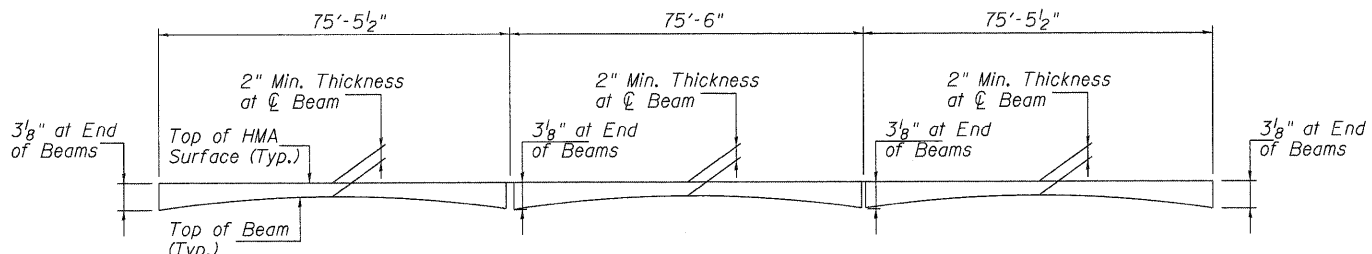


SECTION THRU PIERS

* 1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.



CROSS SECTION



HOT-MIX ASPHALT SURFACE PROFILE

Includes Waterproofing Membrane System

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PLOT DATE = 9/7/2011	DRAWN - DLH	REVISED -
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WHKS & CO.
ENGINEERING

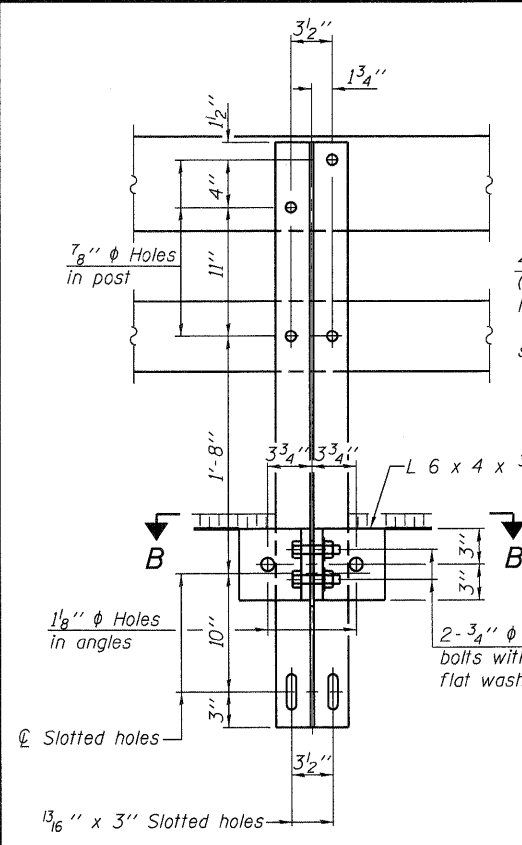
7018 KINGSMILL CT.,
SPRINGFIELD, IL
(217) 483-9457
DESIGN FIRM #184001036

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

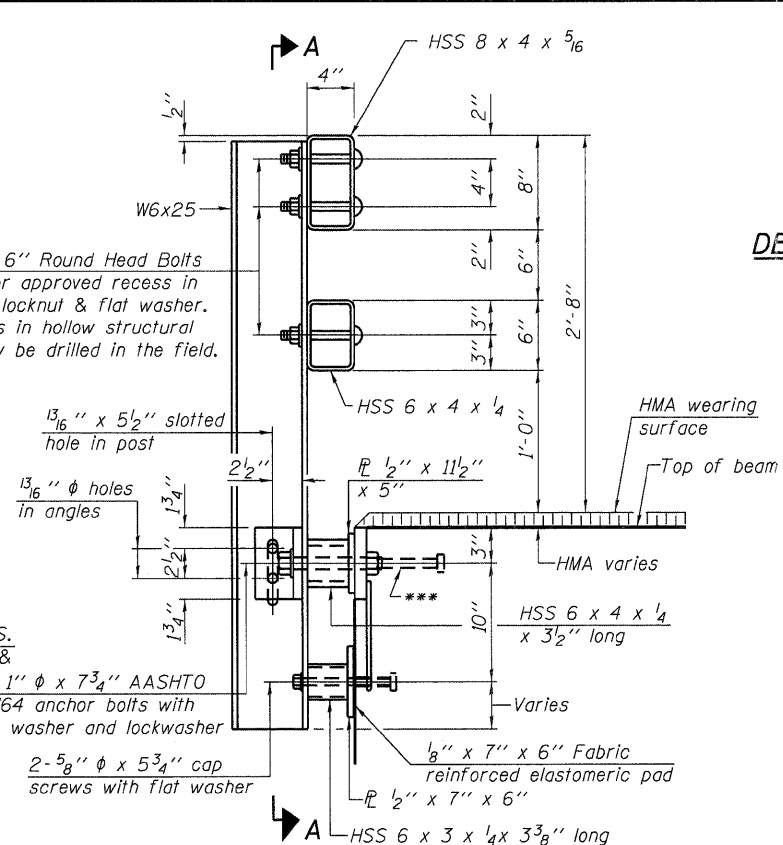
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 084-0480

SHEET NO. 4 OF 11 SHEETS

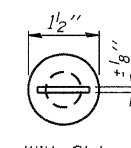
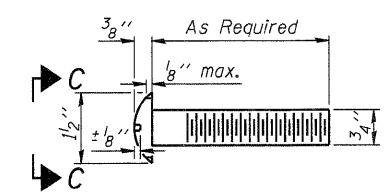
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CONTRACT NO. 93556				ILLINOIS FED. AID PROJECT



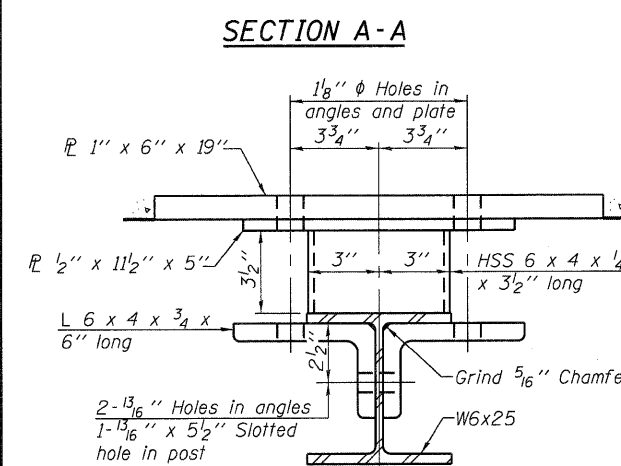
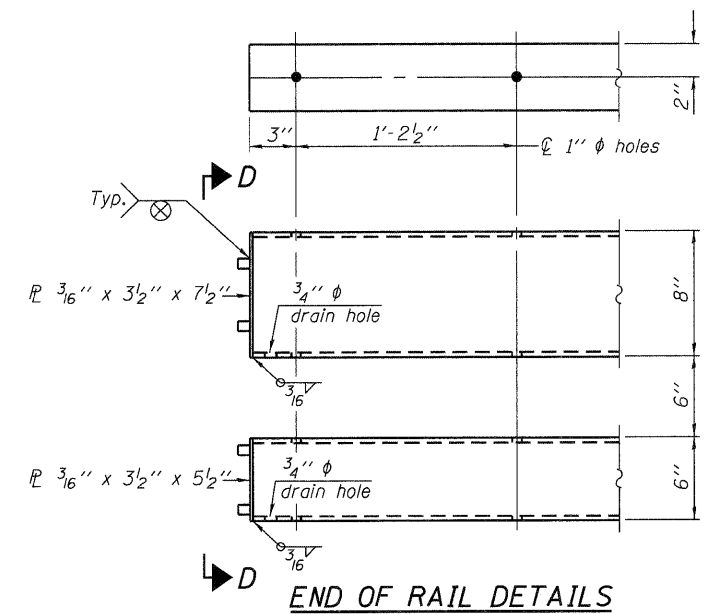
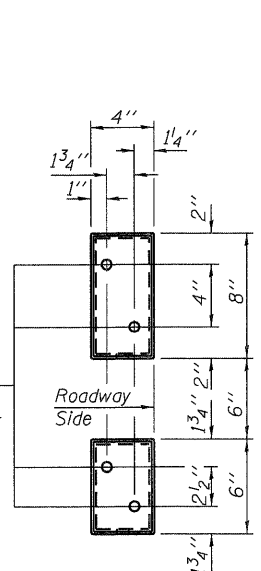
4-3/4" φ x 6" Round Head Bolts (With slot or approved recess in head) with locknut & flat washer. 7/8" φ holes in hollow structural section may be drilled in the field.



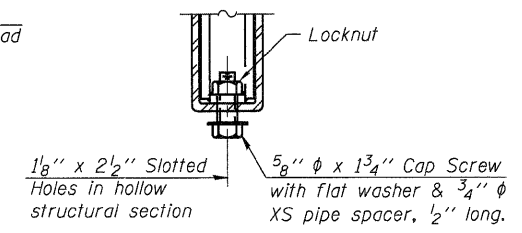
DETAIL OF 3/4" φ ROUND HEAD BOLT



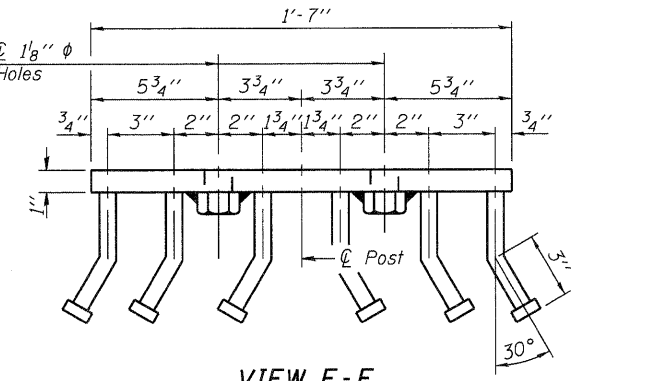
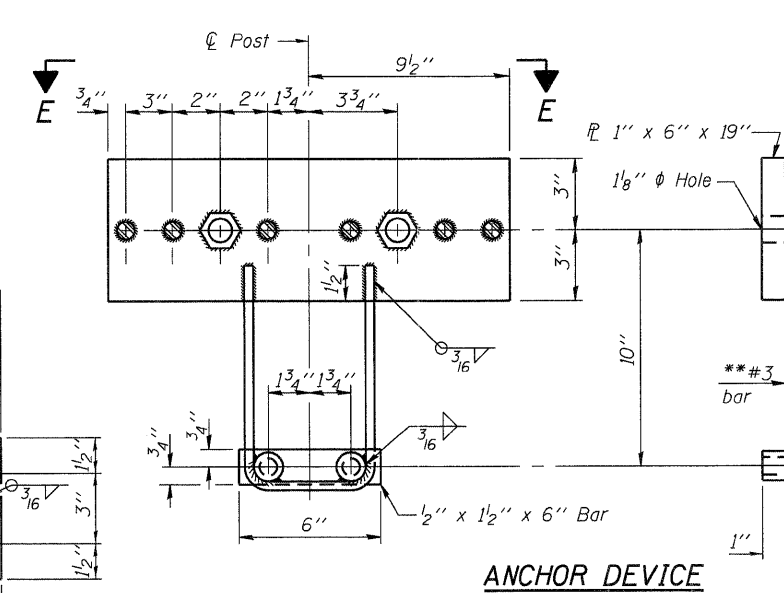
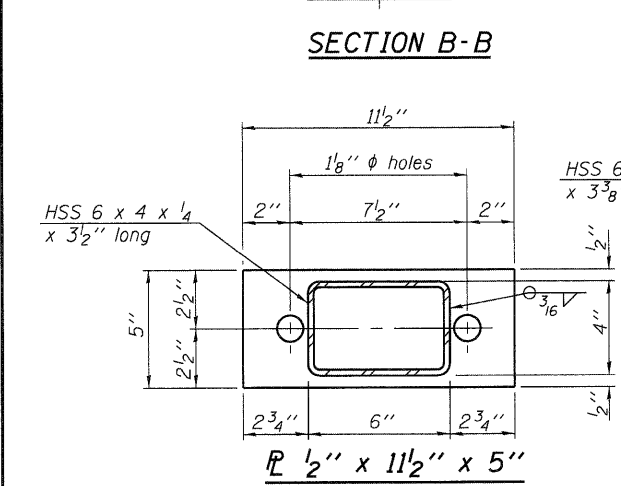
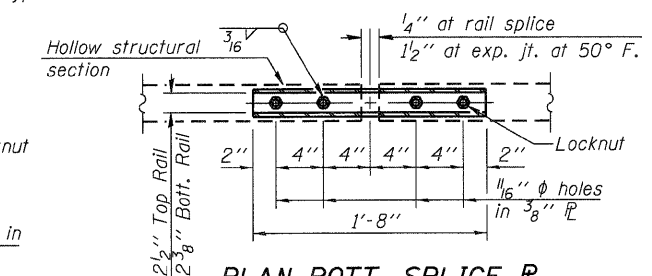
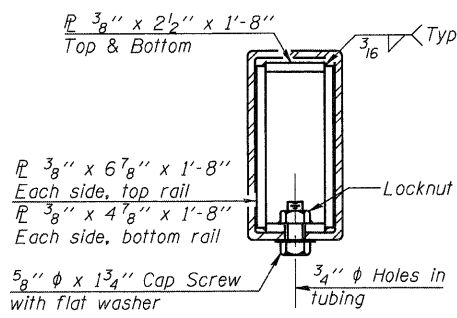
VIEW C-C



RAIL SPLICE CONNECTION AT EXPANSION JT.



SECTION AT RAIL SPLICE



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. Cost included with Steel Railing, Type SM.
 All steel rail members 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 SM	Foot	456

R-34HMAWS 7-1-10
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 FILE NAME = D6.SN0840480.dgn
 PLOT DATE = 9/7/2011
 PLOT TIME = 11:11:24 AM

WHKS & CO. ENGINEERING
 7018 KINGSMILL CT., SPRINGFIELD, IL (217) 483-9457
 DESIGN FIRM #184001036

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

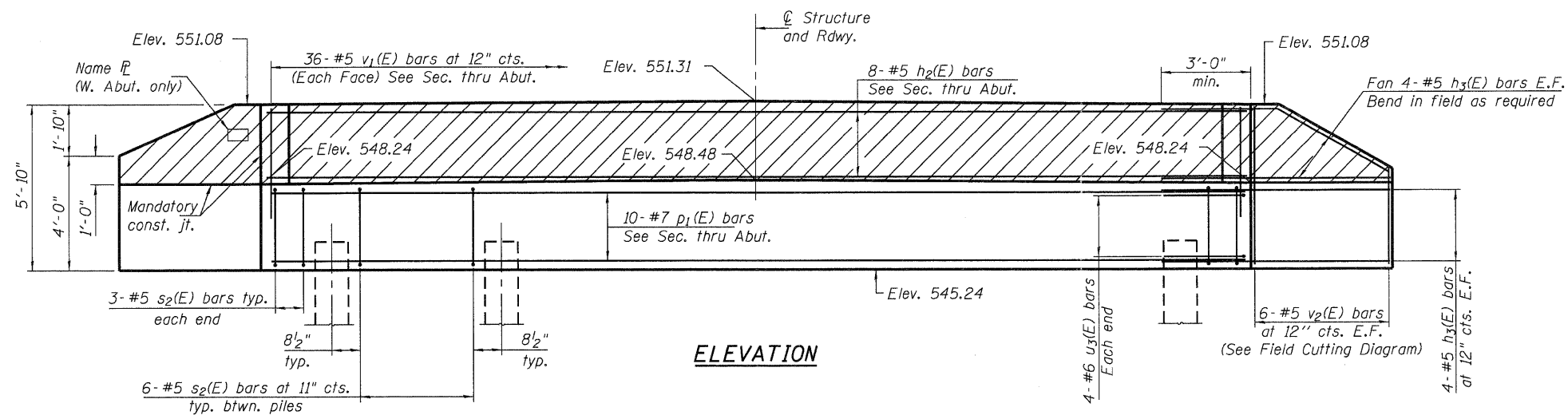
STEEL RAILING, TYPE SM WITH HOT-MIX ASPHALT WEARING SURFACE
 STRUCTURE NO. 084-0480
 SHEET NO. 5 OF 11 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	08-00119-04-BR	SANGAMON	25	12

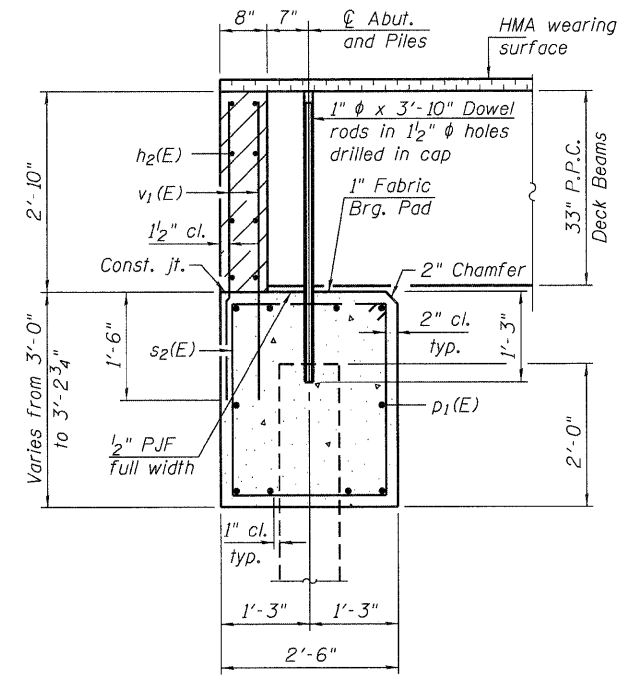
CONTRACT NO. 93556

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

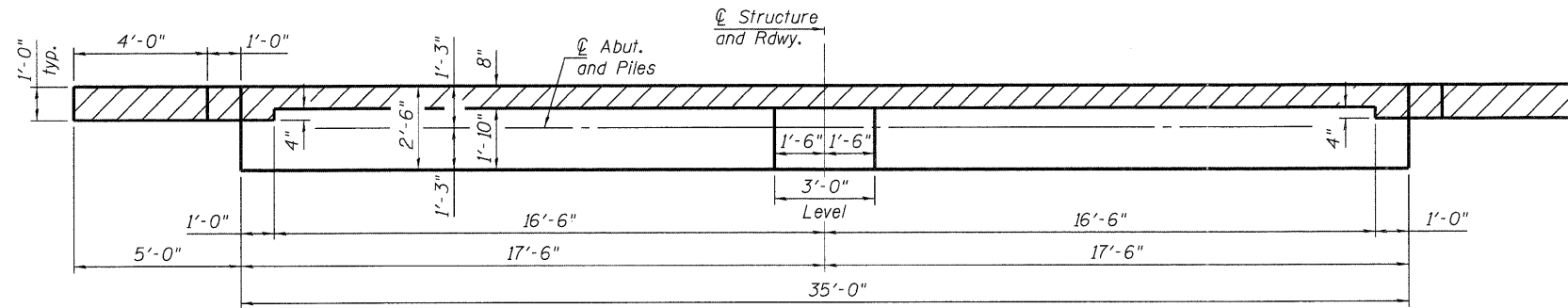
** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".



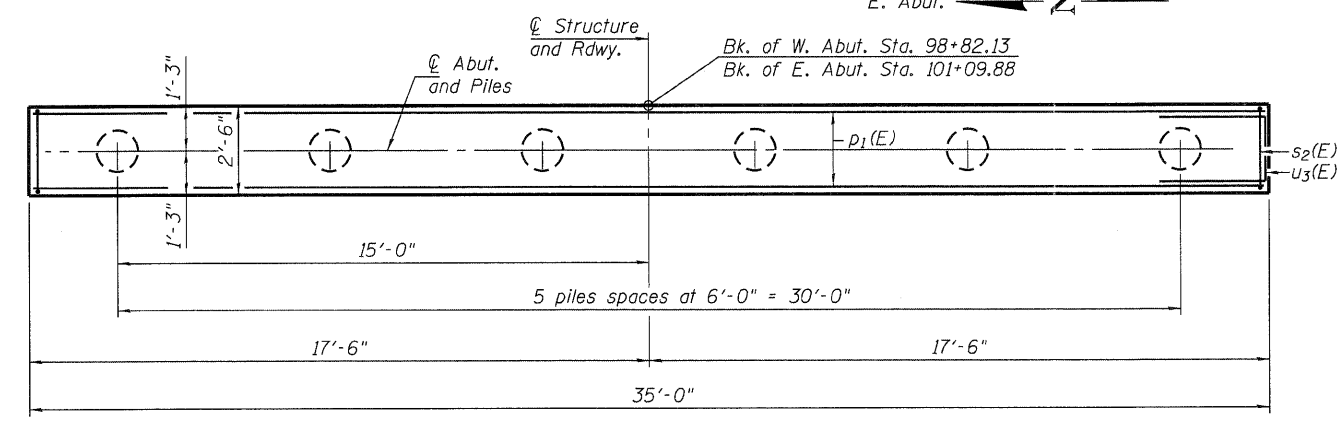
ELEVATION



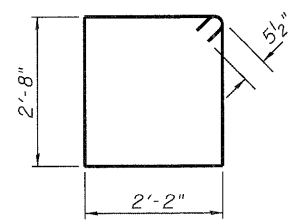
SECTION THRU ABUTMENT



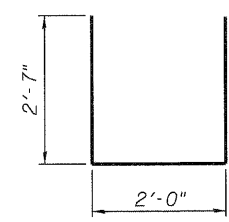
TOP VIEW



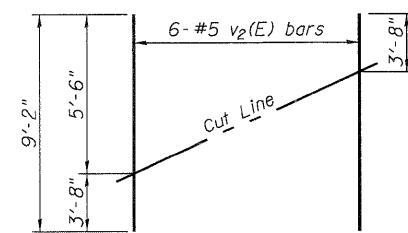
PLAN



BAR s2(E)



BAR u3(E)



FIELD CUTTING DIAGRAM

Order v2(E) bars full length. Cut as shown and use remainder of bars in opposite face.

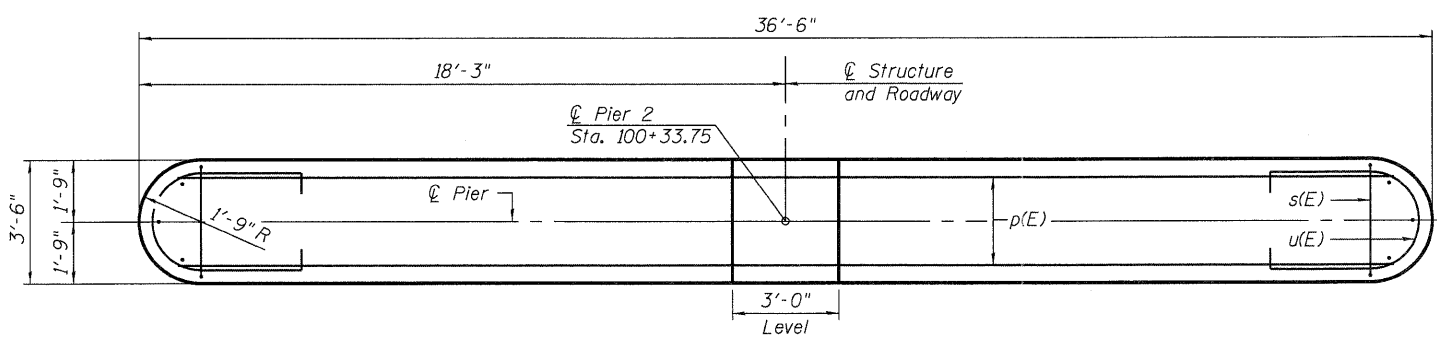
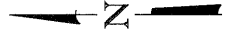
**BILL OF MATERIAL
TWO ABUTMENTS**

Bar	No.	Size	Length	Shape
h2(E)	16	#5	34'-9"	—
h3(E)	64	#5	8'-6"	—
p1(E)	20	#7	34'-9"	—
s2(E)	72	#5	10'-7"	□
u3(E)	16	#6	7'-2"	—
v1(E)	144	#5	4'-2"	—
v2(E)	24	#5	9'-2"	—
Structure Excavation		Cu. Yd.	210	
Concrete Structures		Cu. Yd.	27.1	
Reinforcement Bars, Epoxy Coated		Pound	4,390	
Furnishing Metal Shell Piles 14" x 0.312"		Foot	565	
Driving Piles		Foot	565	
Test Pile Metal Shells		Each	1	

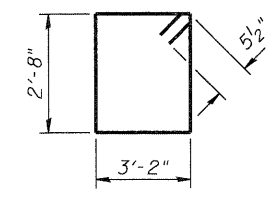
PILE DATA - W. ABUT.
 Type: Metal Shell 14" ϕ x 0.312" walls
 Nominal Required Bearing: 291 kips
 Factored Resistance Available: 160 kips
 Est. Length: 53 ft.
 No. Production Piles: 5
 No. Test Piles: 1

PILE DATA - E. ABUT.
 Type: Metal Shell 14" ϕ x 0.312" walls
 Nominal Required Bearing: 291 kips
 Factored Resistance Available: 160 kips
 Est. Length: 50 ft.
 No. Production Piles: 6

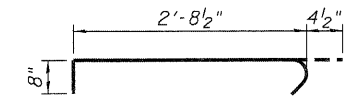
Notes:
 The hatched area shall be poured after the beams are in place. The backwall shall be cast against the beams. Cast top of wingwall flush with exterior beam face after beams have been erected.
 Dowel rods to be grouted after beams are in place and allowed to cure (Min. 24 hrs.) prior to grouting the shear keys. Cost shall be included in the cost of Precast Prestressed Concrete Deck Beams (33" Depth).
 For details of piles and Concrete Encasement, see sheet 9 of 11.
 If pile interferes with dowel embedment, reduce dowel embedment so dowel is at the top of the pile (min. embedment = 1'-0").



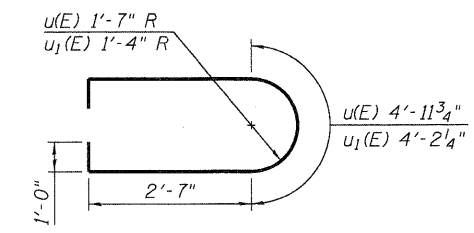
TOP PLAN



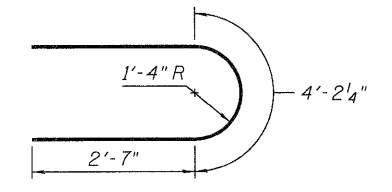
BAR s(E)



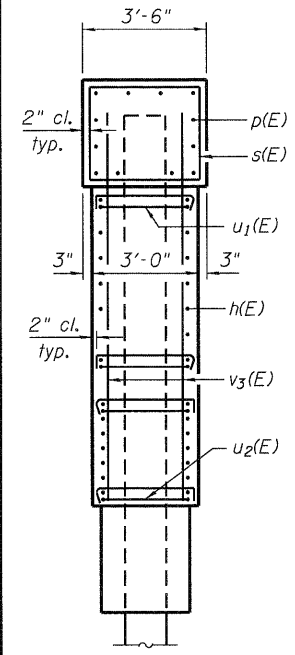
BAR s₁(E)



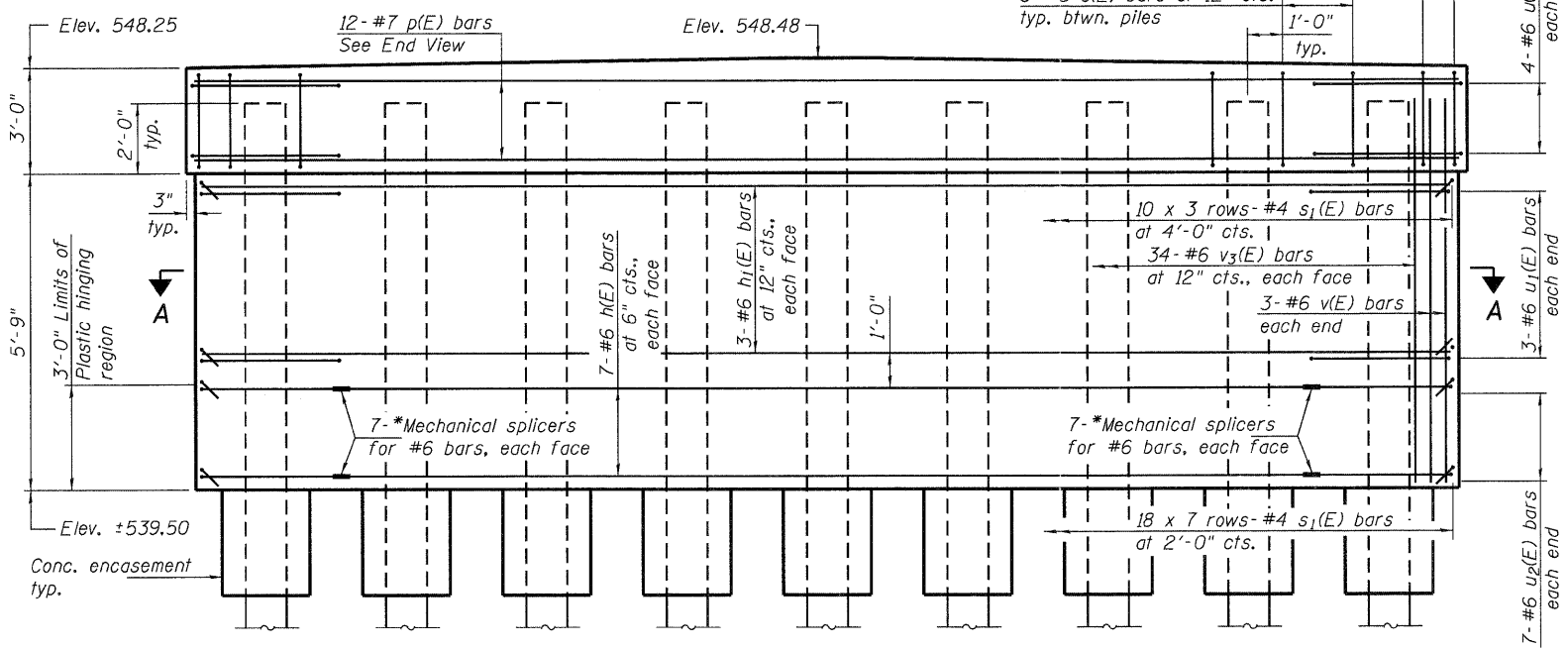
BARS u(E) & u₁(E)



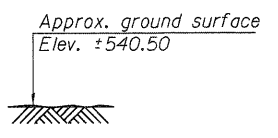
BARS u₂(E)



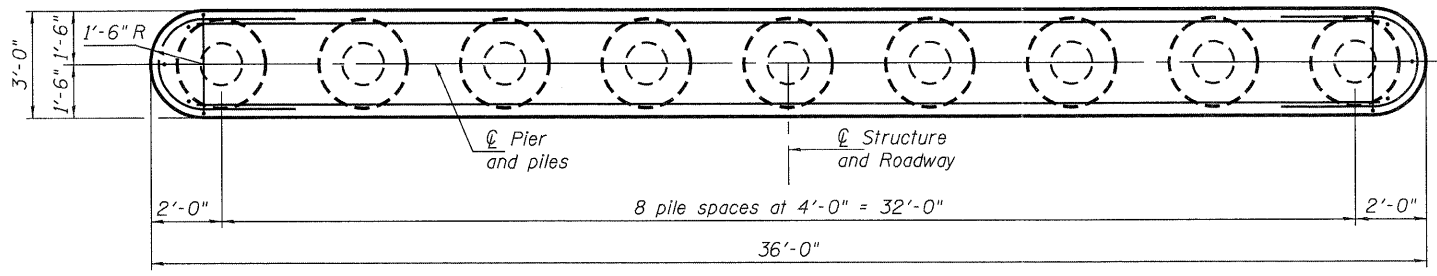
END VIEW



ELEVATION



* As an alternate to the Mechanical splicers shown, the Contractor may provide shop welded splices in accordance with AWS D1.4.



SECTION A-A

PILE DATA

Type: Metal Shell - 14" ϕ x 0.312" walls
 Nominal Required Bearing: 386 kips
 Factored Resistance Available: 198 kips
 Est. Length: 72 ft.
 No. Production Piles: 8
 No. Test Piles: 1

**PIER 2
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	14	#6	27'-10"	—
h ₁ (E)	6	#6	33'-0"	—
p(E)	12	#7	33'-0"	—
s(E)	28	#5	12'-7"	□
s ₁ (E)	156	#4	3'-9"	┌
u(E)	8	#6	12'-2"	U
u ₁ (E)	6	#6	11'-5"	U
u ₂ (E)	14	#6	9'-5"	U
v ₃ (E)	74	#6	7'-7"	—
Structure Excavation		Cu. Yd.	10	
Concrete Structures		Cu. Yd.	31.1	
Concrete Encasement		Cu. Yd.	2.9	
Reinforcement Bars, Epoxy Coated		Pound	3,740	
Furnishing Metal Shell Piles 14" x 0.312"		Foot	576	
Driving Piles		Foot	576	
Test Pile Metal Shells		Each	1	
Mechanical Splicers		Each	28	

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WHKS & CO.
 ENGINEERING
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 SPRINGFIELD, IL
 (217) 483-9457
 DESIGN FIRM #184001036

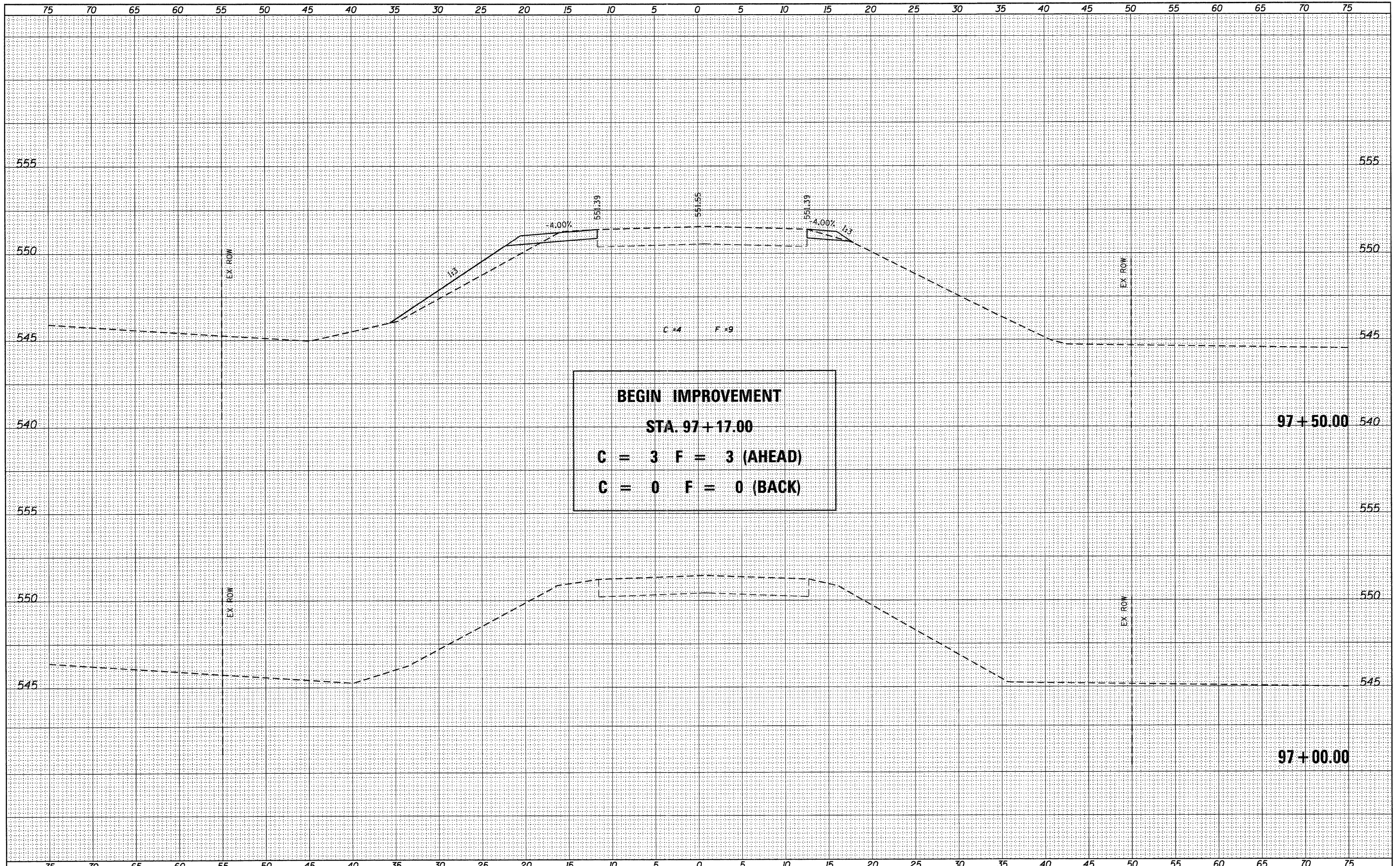
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 2
STRUCTURE NO. 084-0480**
 SHEET NO. 8 OF 11 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	08-00119-04-BR	SANGAMON	25	15
				CONTRACT NO. 93556
ILLINOIS FED. AID PROJECT				

DATE	
BY	
DESIGNED	
CHECKED	
PLANNED	
NOTED	
NO.	

DATE	
BY	
DESIGNED	
CHECKED	
PLANNED	
NOTED	
NO.	



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DESIGNED -	REVISED -
CHECKED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -

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 SPRINGFIELD, IL
 (217) 483-9457
ENGINEERING DESIGN FIRM #184001036

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

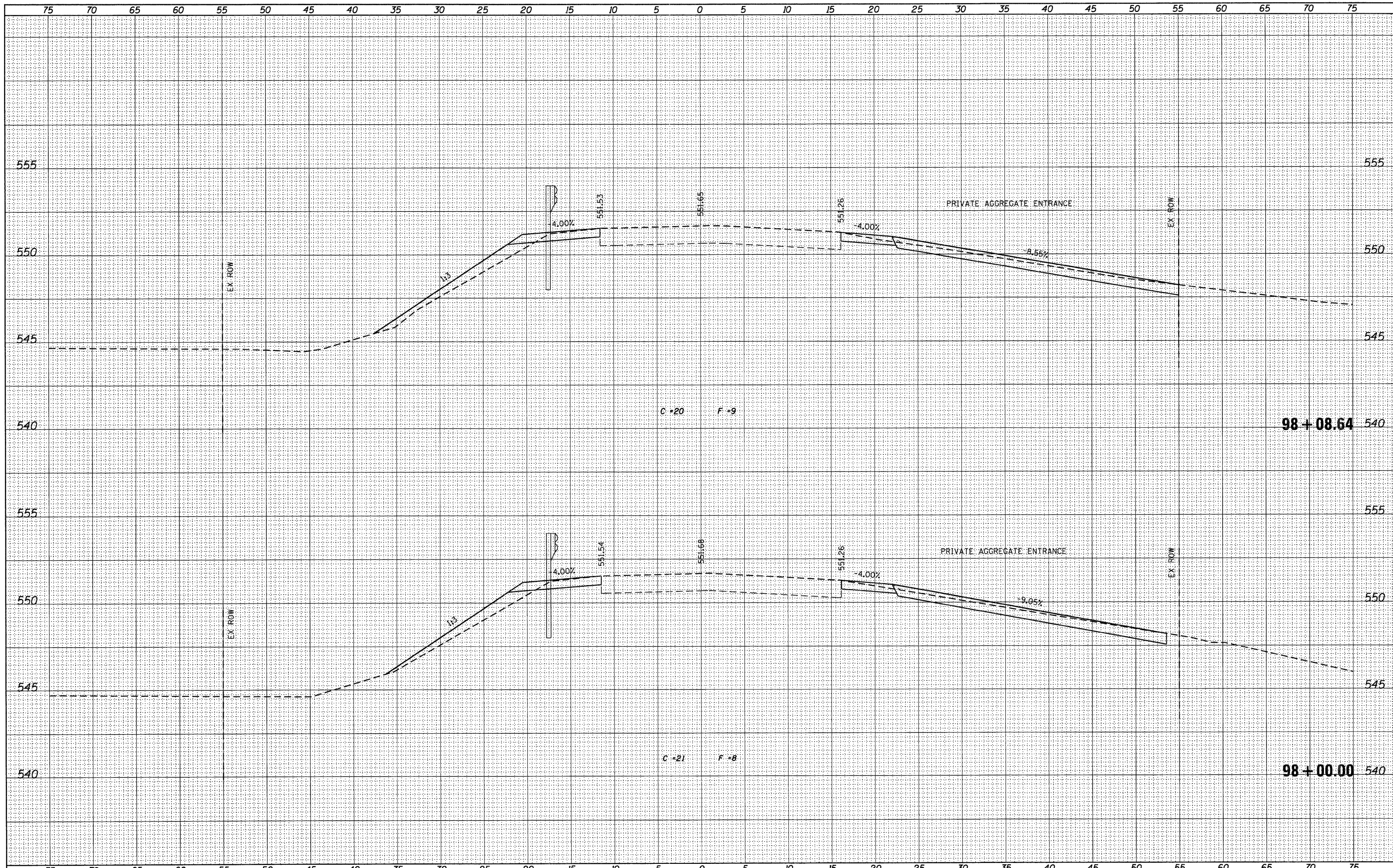
**CROSS SECTIONS
 CH 4 OVER BUCKHART CREEK**

SCALE: 1" = 5' SHEET NO. 1 OF 7 SHEETS STA. 97+00.00 TO STA. 97+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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SN 084-0480	CONTRACT NO. 93556		ILLINOIS FED. AID PROJECT	

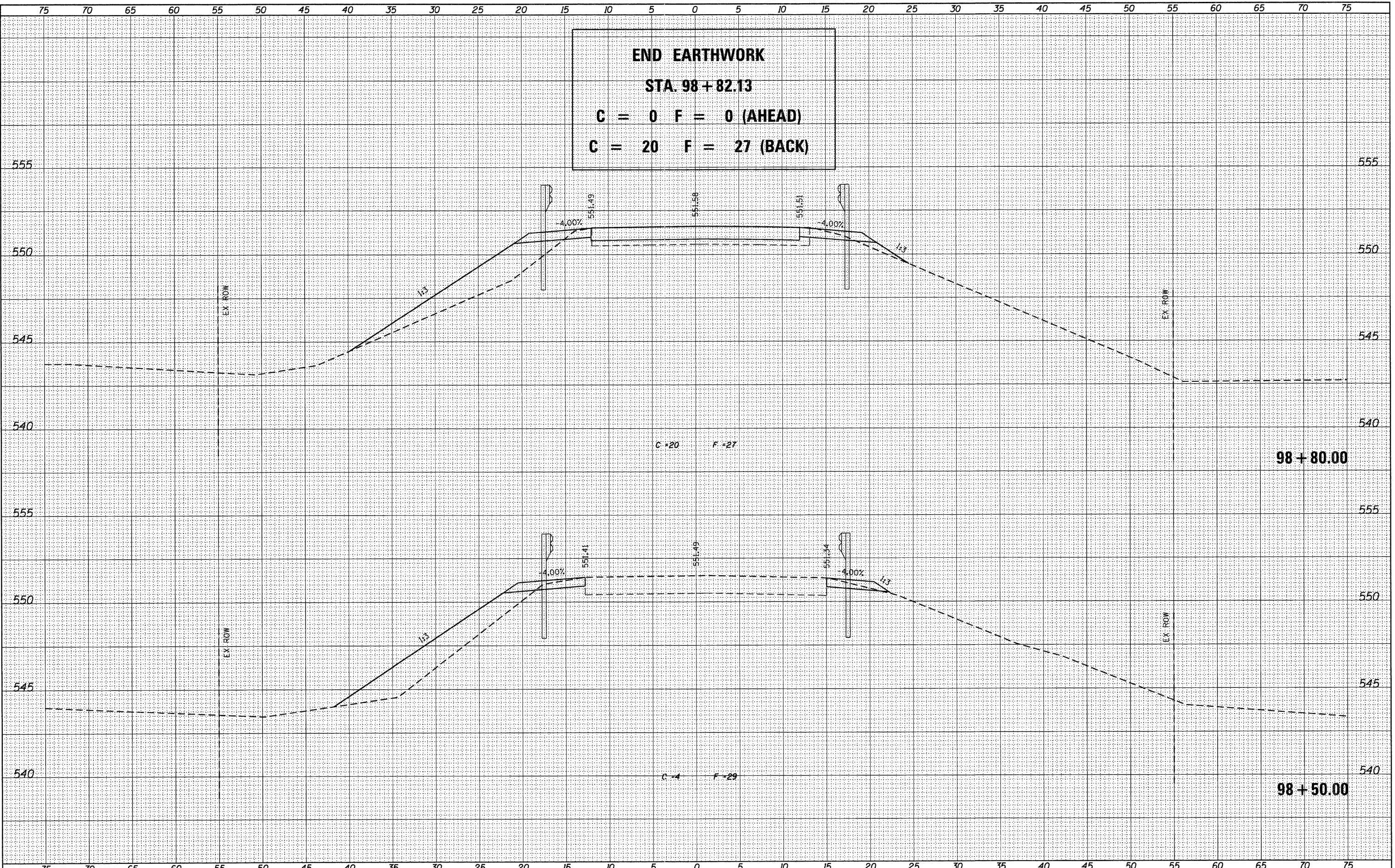
DATE	
BY	
SUBMITTED	
SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SUBMITTED	
SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
NO.	



USER NAME = dheberling	DESIGNED -	REVISED -	7018 KINGSMILL CT., SPRINGFIELD, IL (217) 483-9457 DESIGN FIRM #184001036	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS CH 4 OVER BUCKHART CREEK		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 9/7/2011	DRAWN -	REVISED -			SN 084-0480		CONTRACT	NO. 93556			
PLOT TIME = 11:11:49 AM	CHECKED -	REVISED -			ENGINEERING	SCALE: 1" = 5'	SHEET NO. 2 OF 7 SHEETS	STA. 98+00.00 TO STA. 98+08.64	ILLINOIS FED. AID PROJECT		

END EARTHWORK
STA. 98+82.13
C = 0 F = 0 (AHEAD)
C = 20 F = 27 (BACK)



DATE	
BY	
DESIGNED	
CHECKED	
PLANNED	
NOTED	
NO.	

DATE	
BY	
DESIGNED	
CHECKED	
PLANNED	
NOTED	
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DESIGNED -	REVISED -
CHECKED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -

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 (217) 483-9457
 DESIGN FIRM #184001036

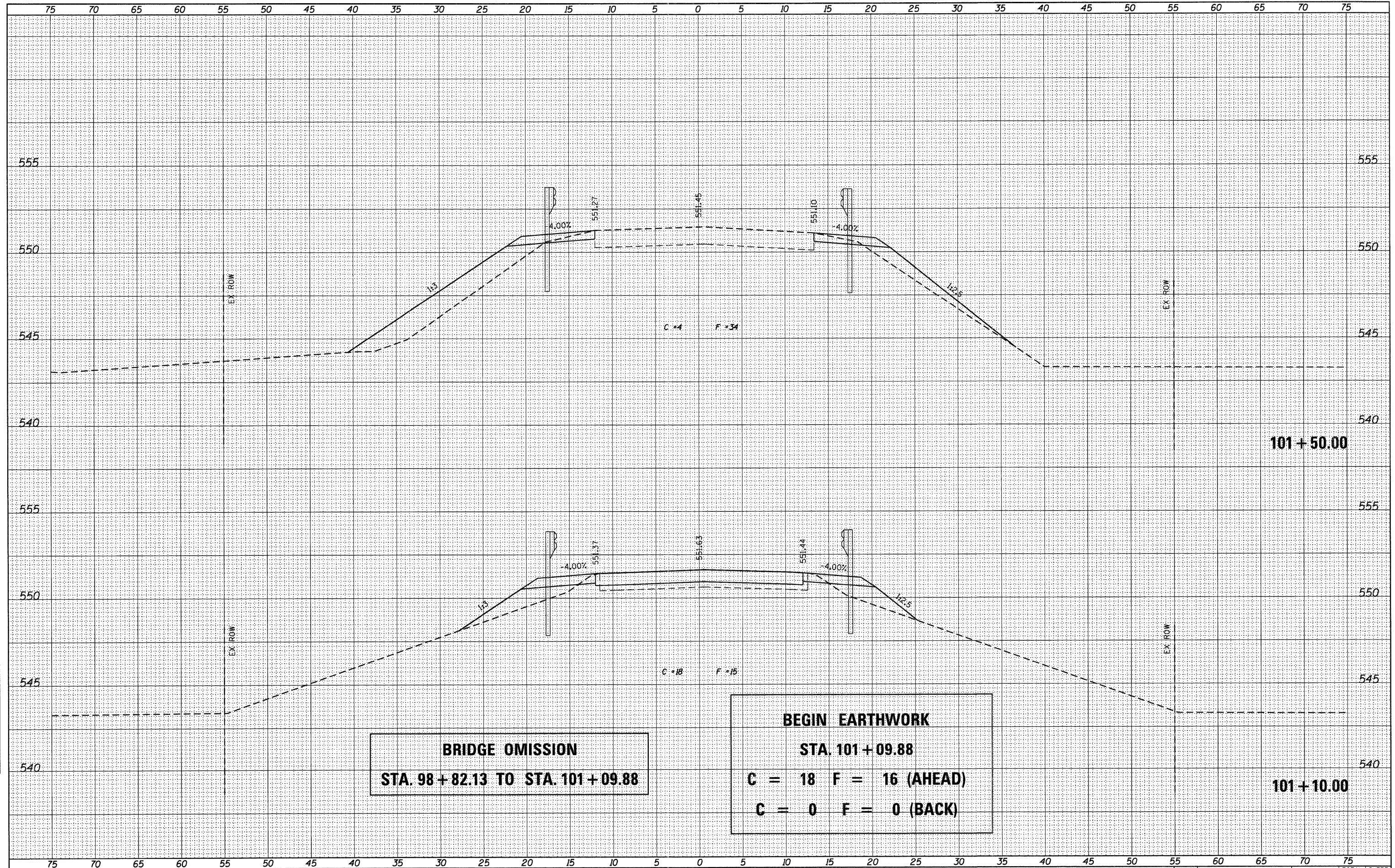
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
CH 4 OVER BUCKHART CREEK
 SCALE: 1" = 5' SHEET NO. 3 OF 7 SHEETS STA. 98+50.00 TO STA. 98+80.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	08-00119-04-BR	SANGAMON	25	21
SN 084-0480			CONTRACT NO. 93556	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



BRIDGE OMISSION
STA. 98 + 82.13 TO STA. 101 + 09.88

BEGIN EARTHWORK
STA. 101 + 09.88
C = 18 F = 16 (AHEAD)
C = 0 F = 0 (BACK)

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7018 KINGSMILL CT.,
 SPRINGFIELD, IL
 (217) 483-9457
ENGINEERING DESIGN FIRM #184001038

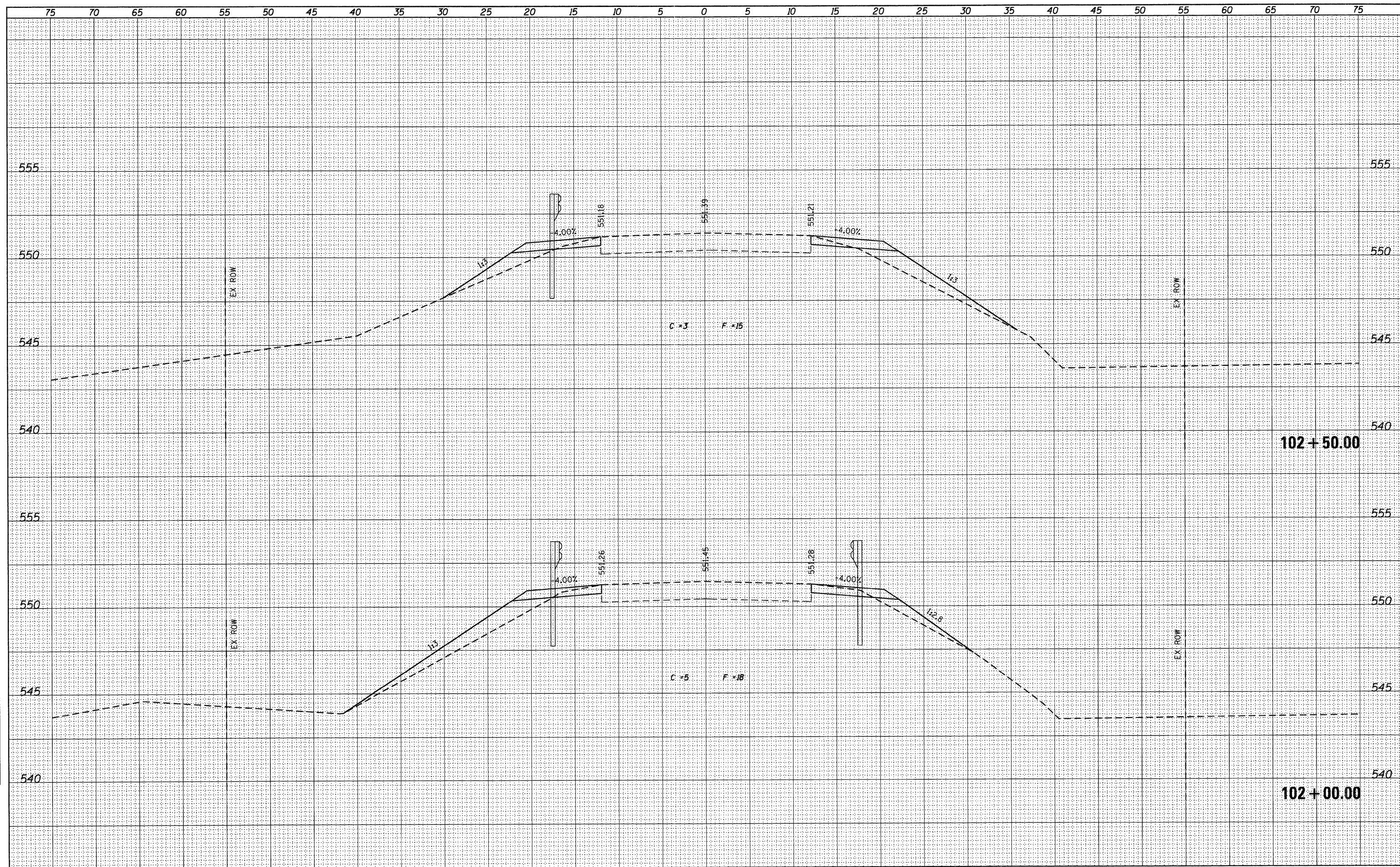
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
CH 4 OVER BUCKHART CREEK
 SCALE: 1" = 5' SHEET NO. 4 OF 7 SHEETS STA. 101+10.00 TO STA. 101+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	08-00119-04-BR	SANGAMON	25	22
SN 084-0480			CONTRACT NO. 93556	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY PLOTTED	
NOTE BOOK NO.	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY PLOTTED	
NOTE BOOK NO.	
AREAS CHECKED	

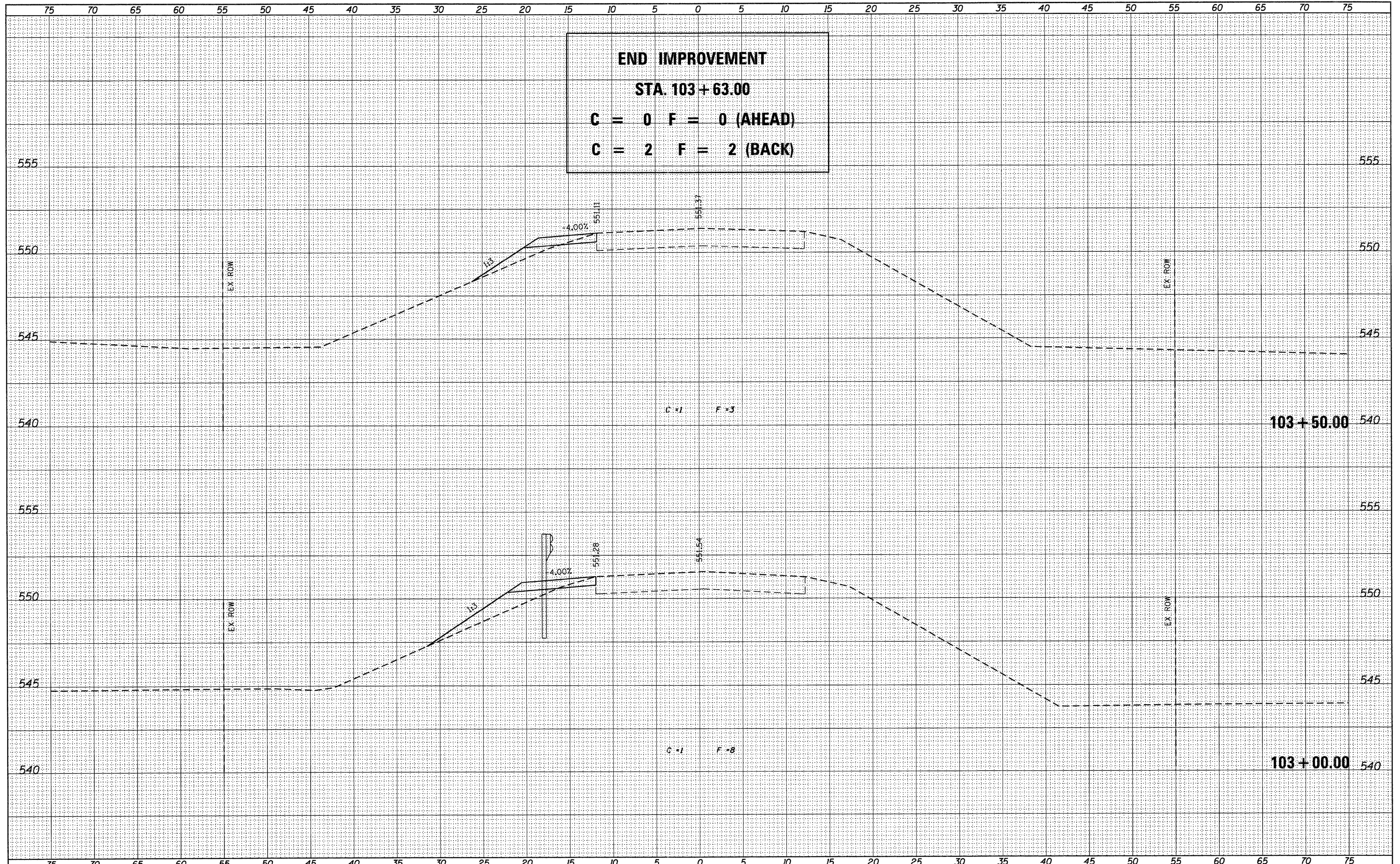


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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																	
556	08-00119-04-BR	SANGAMON	25	23																	
SN 084-0480			CONTRACT NO. 93556																		

ILLINOIS FED. AID PROJECT

DATE	
BY	
DESIGNED	
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PLANNED	
TEMPLATE	
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DATE	
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USER NAME = dheberling	DESIGNED -	REVISED -
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PLOT TIME = 11:11:55 AM	CHECKED -	REVISED -

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ENGINEERING
 7018 KINGSMILL CT.,
 SPRINGFIELD, IL
 (217) 483-9457
 DESIGN FIRM #184001036

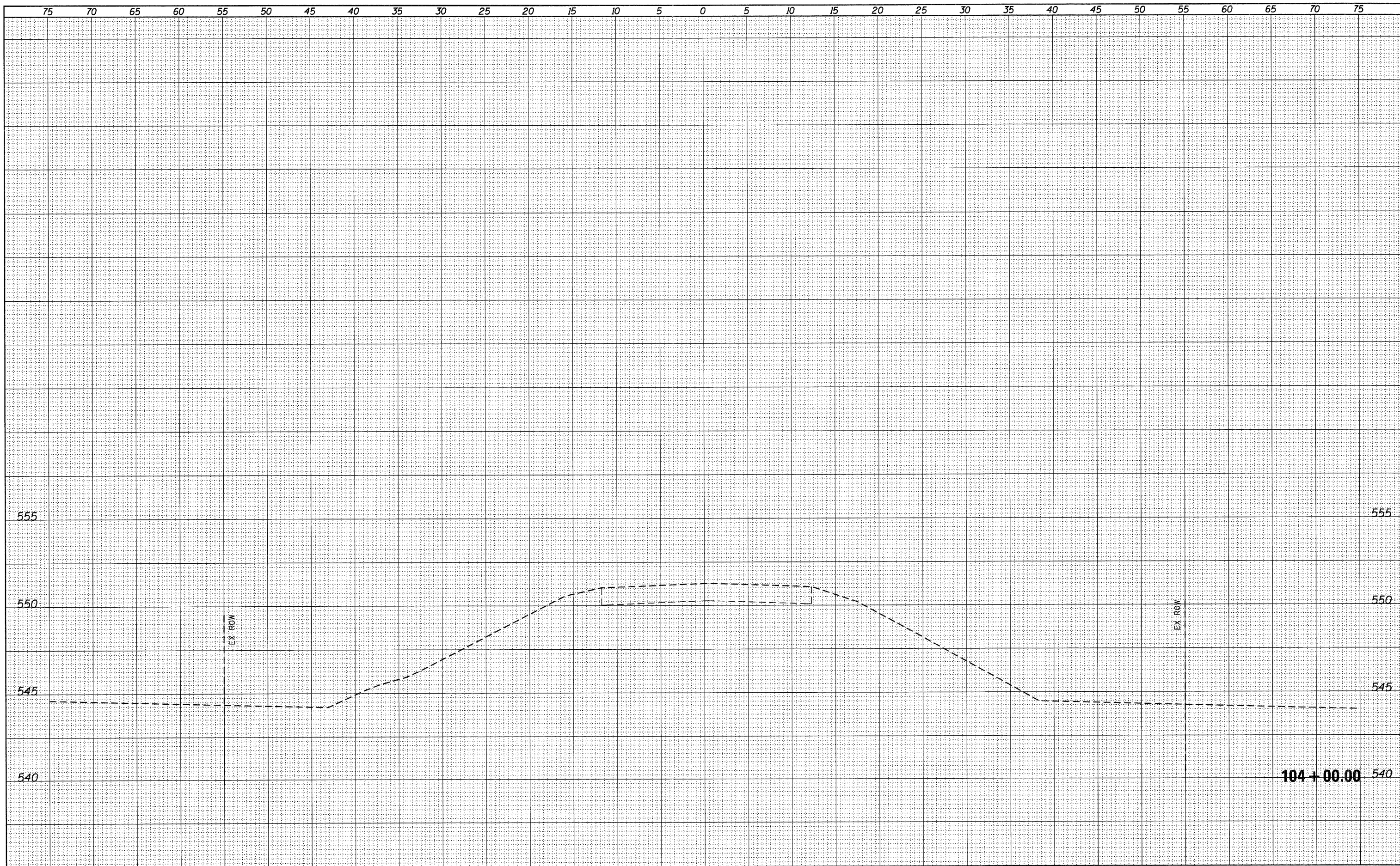
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 CH 4 OVER BUCKHART CREEK
 SCALE: 1" = 5'
 SHEET NO. 6 OF 7 SHEETS
 STA. 103+00.00 TO STA. 103+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	08-00119-04-BR	SANGAMON	25	24
SN 084-0480			CONTRACT NO. 93556	
ILLINOIS FED. AID PROJECT				

DATE	
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NOTE BOOK	
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PLOT DATE = 9/7/2011	DRAWN -	REVISED -		SN 084-0480					CONTRACT NO. 93556					
PLOT TIME = 11:11:56 AM	CHECKED -	REVISED -		SCALE: 1" = 5'		SHEET NO. 7 OF 7 SHEETS	STA. 104+00.00 TO STA. 104+00.00		ILLINOIS FED. AID PROJECT					