

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA17352	*	MACON	52	1
STA. #03-00184-00-BR		ILLINOIS	PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED BRIDGE REPLACEMENT

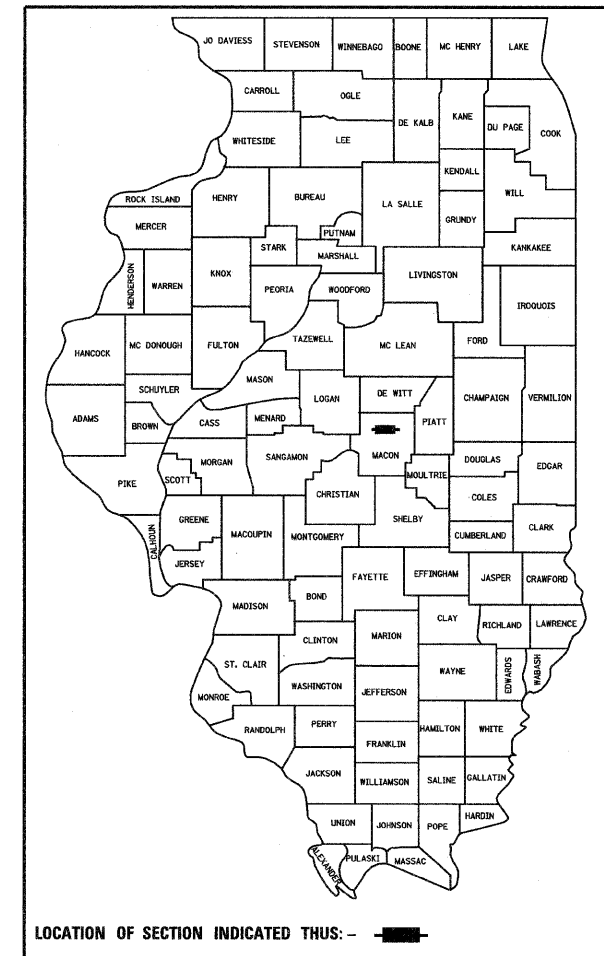
AMERICAN RECOVERY AND
REINVESTMENT ACT FUNDS
HICKORY POINT TOWNSHIP
SECTION 03-00184-00-BR
FAU 7352(CH 20)
MACON COUNTY
JOB NO. C-97-025-10
PROJECT NO. ARA-5169(044)

STANDARDS

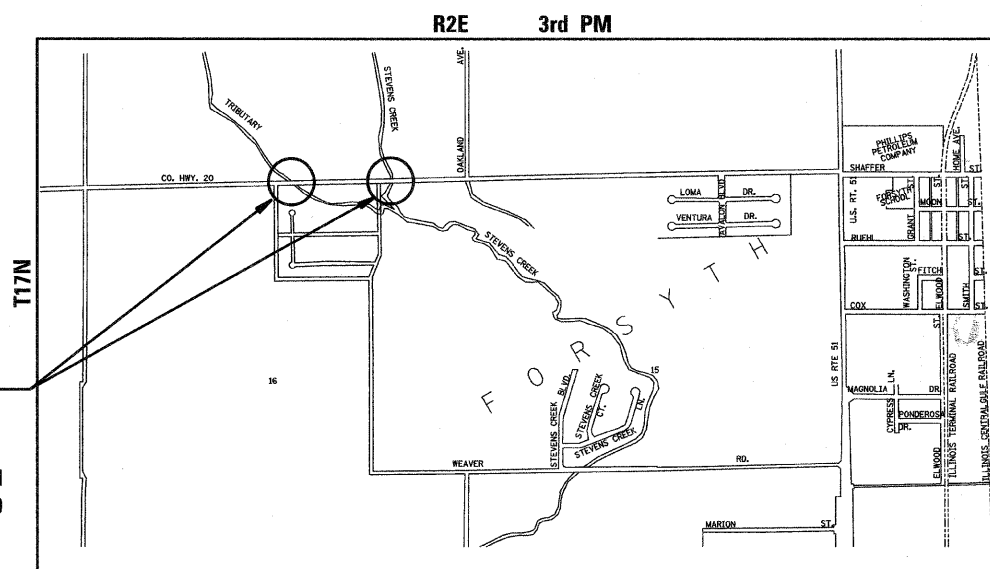
- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-05 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-07 PAVEMENT JOINTS
- 515001-03 NAME PLATE FOR BRIDGES
- 542401-01 METAL END SECTIONS FOR PIPE CUVERTS
- 602306-02 INLET TYPE B
- 602401-02 MANHOLE TYPE A
- 604001-03 FRAME AND LIDS TYPE 1
- 604006-04 FRAME AND GRATE TYPE 3
- 606001-04 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 630301-05 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 701901-01 TRAFFIC CONTROL DEVICES
- 780001-02 TYPICAL PAVEMENT MARKINGS
- BLR 10-6 PCC PAVEMENT SPECIAL
- BLR 21-8 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- BLR 27-1 TRAFFIC BARRIER TERMINAL TYPE 5A

INDEX OF SHEETS

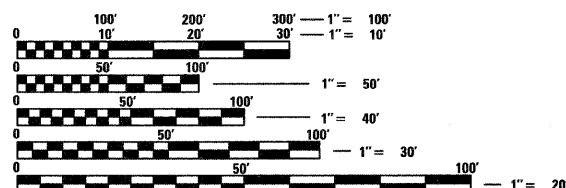
- 1 COVER SHEET
- 2 GENERAL NOTES AND QUANTITIES
- 3-4 TYPICAL SECTIONS
- 5 ALIGNMENT, TIES AND BENCHMARKS
- 6-8 PLAN AND PROFILE
- 9-10 GRADING PLAN
- 11-20 SN 058-3370 BRIDGE PLANS
- 21-28 SN 058-3371 BRIDGE PLANS
- 29-52 CROSS SECTIONS



FUNCTIONAL CLASSIFICATION - MINOR ARTERIAL (URBAN)
2009 ADT = 1600
2029 ADT = 2150
DESIGN SPEED = 35 MPH



PROPOSED
SECTION 03-00184-00-BR
BEGINS STATION 15+50.00
ENDS STATION 34+60.00
PROPOSED STRUCTURE
NO. 058-3370 & NO. 058-3371
OMISSION STA 20+00.00 TO
STA 26+60.00



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

HLC PROJECT NO. 4901
HLC FIELD BOOK NO. 259

LOCATION MAP

TOTAL LENGTH 1910.00 FEET = 0.36 MILES
OMISSION LENGTH 660 FEET = 0.13 MILES
NET LENGTH 1250.00 FEET = 0.24 MILES



Patrick P. Wilson
11/03/09
expires 11/30/11

HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
DECATUR (317) 422-8544
CHICAGO (773) 714-0050
ROCKFORD (815) 489-0050
184-001397

APPROVED NOVEMBER 2 20 09
Chris A. S.
COUNTY ENGINEER

PASSED Maureen K. Koval 11/9 20 09
DISTRICT SEVEN ENGINEER OF LOCAL ROADS AND STREETS

Releasing For Bid Based on Limited Review 11/9 20 09
Roger L. Dushnell
DEPUTY DIRECTOR OF HIGHWAYS
REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	2
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL
20200100	EARTH EXCAVATION	CU YD	294
20300100	CHANNEL EXCAVATION	CU YD	318
20400800	FURNISHED EXCAVATION	CU YD	1934
25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.7
28000305	TEMPORARY DITCH CHECKS	FOOT	100
28000500	INLET AND PIPE PROTECTION	EACH	3
28100107	STONE RIPRAP, CLASS A4	SQ YD	1015
28200200	FILTER FABRIC	SQ YD	1015
30200650	PROCESSING MODIFIED SOIL 12"	SQ YD	3237
30201700	PORTLAND CEMENT	TON	140
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	26
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	61
40701841	HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 8"	SQ YD	2969
42000200	PORTLAND CEMENT CONCRETE PAVEMENT 7"	SQ YD	130
42001200	PAVEMENT FABRIC	SQ YD	130
44000100	PAVEMENT REMOVAL	SQ YD	2836
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	70
48101200	AGGREGATE SHOULDERS, TYPE B	TON	543
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	2
50105220	PIPE CULVERT REMOVAL	FOOT	66
50200100	STRUCTURE EXCAVATION	CU YD	240
50300225	CONCRETE STRUCTURES	CU YD	82.4
50300280	CONCRETE ENCASEMENT	CU YD	3.6
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	2005
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1910
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	7010
* 50901050	STEEL RAILING, TYPE SM	FOOT	268
51200957	FURNISHING METAL SHELL PILES 12" x 0.250"	FOOT	483
51201600	FURNISHING STEEL PILES HP12X53	FOOT	486
51202305	DRIVING PILES	FOOT	969
51203200	TEST PILE METAL SHELLS	EACH	1
51203600	TEST PILE STEEL HP 12X53	EACH	1
51500100	NAME PLATES	EACH	2
54213450	END SECTIONS 15"	EACH	1
54213453	END SECTIONS 18"	EACH	4
54200223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	61
550B0050	STORM SEWERS, CLASS B, TYPE 1 12"	FOOT	50
550B0360	STORM SEWERS, CLASS B, TYPE 2 15"	FOOT	26
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	435
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	116
60218400	MANHOLES, TYPE A, 4' - DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1
60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	2
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B*6, 24	FOOT	94
* 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
63200310	GUARDRAIL REMOVAL	FOOT	316
67100100	MOBILIZATION	L SUM	1
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2820
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	8
Z0018913	DRILL AND GROUT #8 TIE BARS	EACH	17

* SPECIALTY ITEMS

EARTHWORK SCHEDULE

LOCATION	1 20200100 EARTH EXCAVATION (CU YD)	2 •EXCAVATION TO BE USED IN EMBANKMENT (ADJUSTED FOR SHRINKAGE) (COL 1 x 0.75) (CU YD)	3 •EMBANKMENT (FILL) (CU YD)	4 20400800 FURNISHED EXCAVATION (COL 2 - COL 3) (CU YD)
15+50.00 TO 20+00.00	126	95	390	-296
26+60.00 TO 34+60.00	168	126	1764	-1638
TOTAL	294	221	2154	-1934

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

GENERAL NOTES

- THE DESIGN 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. IN ADDITION, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SHALL BE MODIFIED AS FOLLOWS: UNDER SECTION 105, ADD THE FOLLOWING SENTENCE: NOTHING CONTAINED HEREIN SHALL RELIEVE THE CONTRACTOR OF HIS/HER DUTIES TO OBSERVE AND COMPLY WITH ALL APPLICABLE LAWS, NOR SHALL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTOR'S COMPLIANCE WITH SUCH LAWS. UNDER ARTICLE 107.01, ADD THE FOLLOWING SENTENCE: THE DESIGN ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S DUTY TO OBSERVE AND COMPLY WITH THE PROVISIONS OF THIS ARTICLE, OR FOR THE CONTRACTOR'S FAILURE TO DO SO.
- ALL ELEVATIONS ARE BASED ON U.S.G.S. MEAN SEA LEVEL DATUM. THE PROPOSED GRADE ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEETS AND STATION CROSS SECTIONS ARE THE ELEVATIONS FOR THE FINISHED SURFACE AT THE LOCATIONS INDICATED.
- THE FOLLOWING RATES WERE USED IN CALCULATING QUANTITIES FOR THIS PROJECT:
AGGREGATE SURFACE COURSE/AGGREGATE SHOULDERS: 2.05 TONS/ CU YD
RIPRAP: 1.5 TONS/ CU YD
BITUMINOUS MATERIALS (PRIME COAT): 0.10 GAL./SQ YD
AGGREGATE (PRIME COAT): 4.00 LBS/SQ YD
HOT MIX ASPHALT: 112 LBS/SQ YD/INCH
PORTLAND CEMENT: 8% BY WEIGHT
- THE HIGHWAY STANDARDS WITH THE REVISION NUMBERS SHOWN IN THE STANDARDS LIST SHALL APPLY TO THIS CONTRACT.
- ALL PAVEMENT ELEVATIONS SHOWN ARE AT EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED.
- THE ABBREVIATION SSRB SHALL REFER TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2007.
- A UNIFORMLY STRAIGHT SAW CUT SHALL BE MADE AT LOCATIONS WHERE PROPOSED NEW CONSTRUCTION WILL ABUT EXISTING HOT-MIX ASPHALT SURFACES. THE SAW CUT SHALL BE MADE FULL-DEPTH THROUGH THE EXISTING SURFACE. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT ITEMS INVOLVED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

* 03-00184-00-BR

LOCATION(S)	CH 20	
• MIXTURE USE(S)	6" HMA BINDER	2" HMA SURFACE
PG	PG 64-28	PG 64-28
DESIGN AIR VOIDS	4.0 % @ Ndes = 50	4.0 % @ Ndes = 50
MIX COMP (GRADATION)	IL 19.0	IL 9.5
FRICTION AGGREGATE	MIX C	MIX C

• PAID FOR AS HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 8"

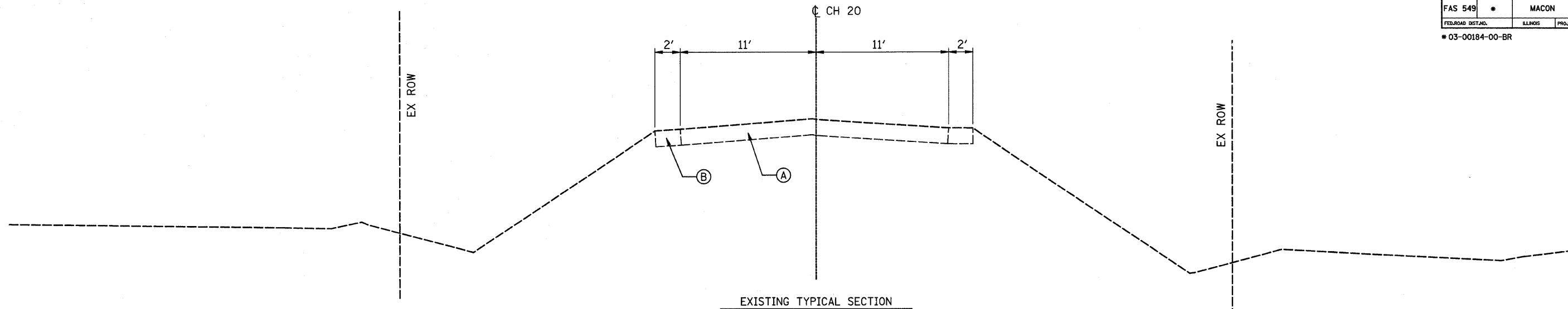
GENERAL NOTES AND QUANTITIES

SECTION 03-00184-00-BR		CH 20 OVER STEVENS CR		DRAWN BY DATE
MACON COUNTY				DLB 7/09
				CHECKED BY DATE
				CAS 7/09
				BOOK NUMBER
				259
				PROJECT NO.
				4901
				SHEET NO.

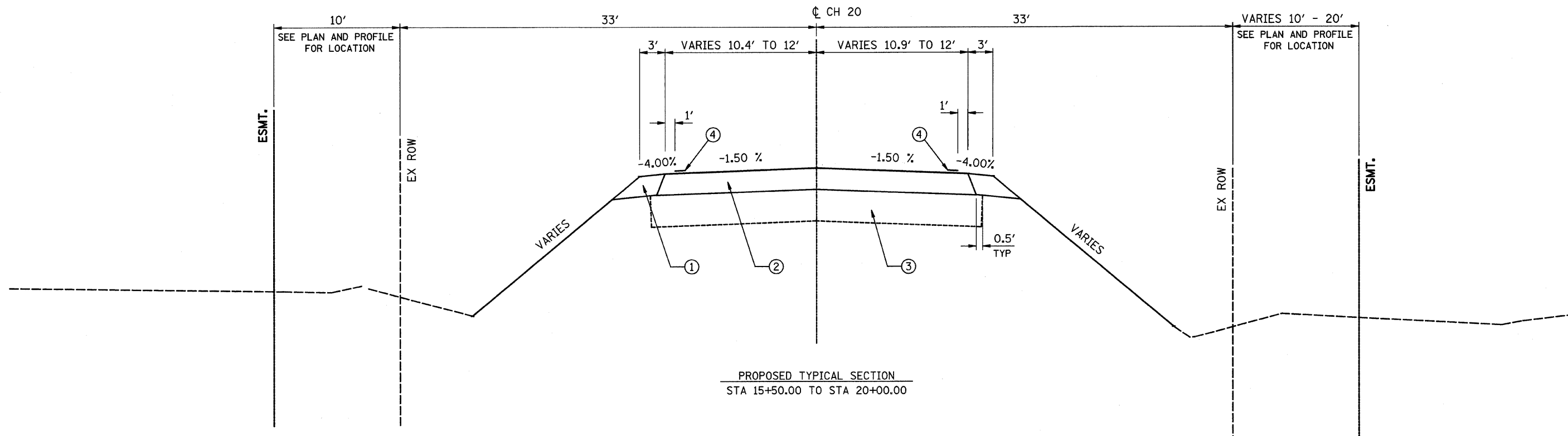
HOMER L. CHASTAIN & ASSOCIATES, LLP
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(317) 422-8544 (773) 714-0060
ROCKFORD
(815) 489-0060

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	3
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

* 03-00184-00-BR



EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTION
STA 15+50.00 TO STA 20+00.00

- (A) EXISTING PAVEMENT (2" HMA & 8" BAM)
- (B) EXISTING AGGREGATE SHOULDERS
- (1) AGGREGATE SHOULDERS TYPE B
- (2) HOT MIX ASPHALT PAVEMENT (FULL DEPTH), 8"
- (3) PROCESSING MODIFIED SOIL 12"
- (4) PAINT PAVEMENT MARKING LINE 4"

TYPICAL SECTIONS

REVISIONS		SECTION 03-00184-00-BR	CH 20 OVER STEVENS CR	DRAWN BY	DATE
NO.	DATE	INITIALS	MACON COUNTY	DLB	7/09
1				CAS	7/09
2					
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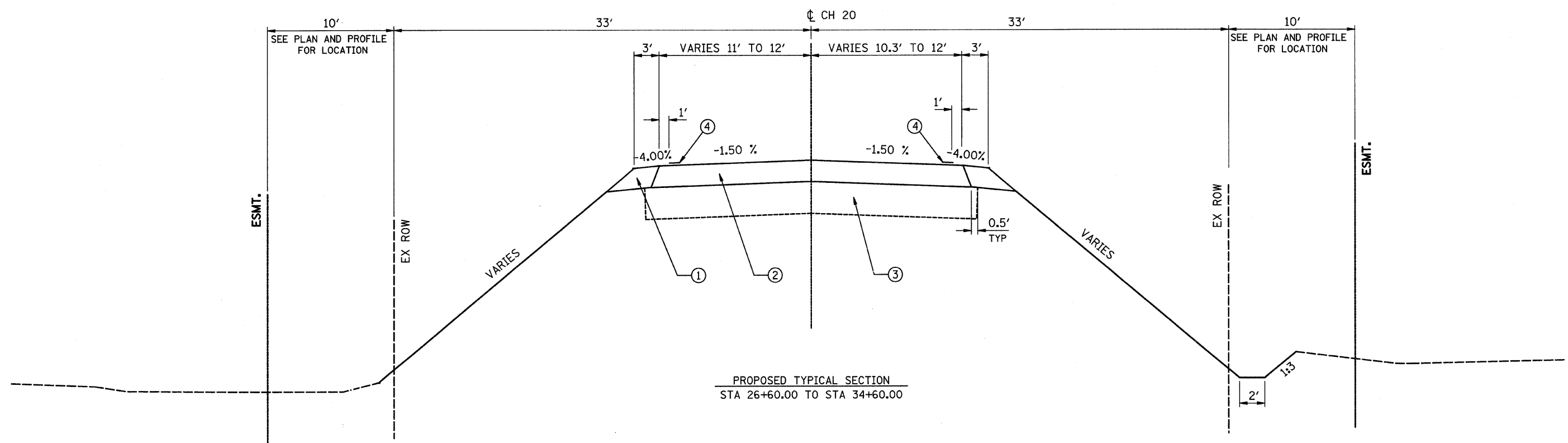
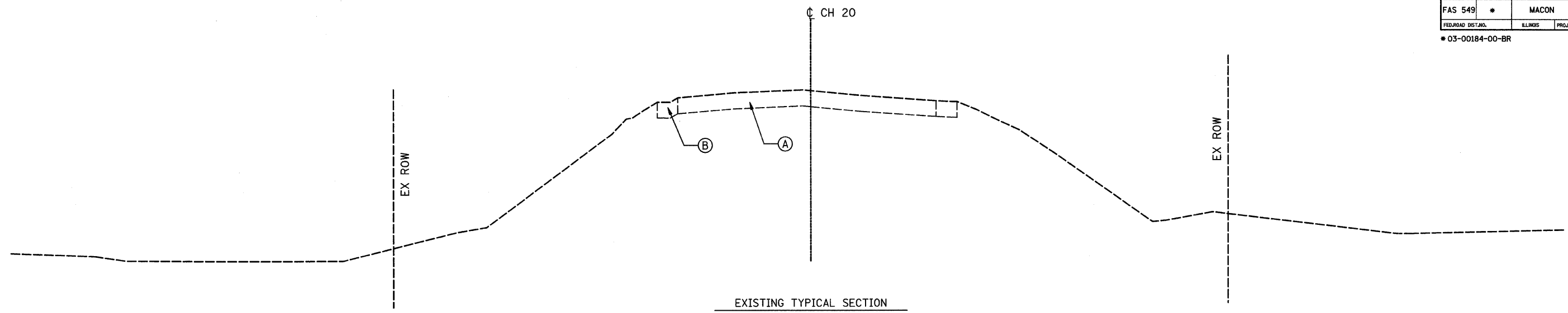
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ROCKFORD
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CHECKED BY	DATE
CAS	7/09
BOOK NUMBER	259
PROJECT No.	4901
SHEET No.	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	4
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

* 03-00184-00-BR



- Ⓐ EXISTING PAVEMENT (2" HMA & 8" BAM)
- Ⓑ EXISTING AGGREGATE SHOULDERS
- ① AGGREGATE SHOULDERS TYPE B
- ② HOT MIX ASPHALT PAVEMENT (FULL DEPTH), 8"
- ③ PROCESSING MODIFIED SOIL 12"
- ④ PAINT PAVEMENT MARKING LINE 4"

REVISIONS			SECTION 03-00184-00-BR CH 20 OVER STEVENS CR		DRAWN BY DATE
No.	DATE	INITIALS	MACON COUNTY		DLB 7/09
1					CHECKED BY DATE
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3					BOOK NUMBER
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6					4901
7					SHEET No.
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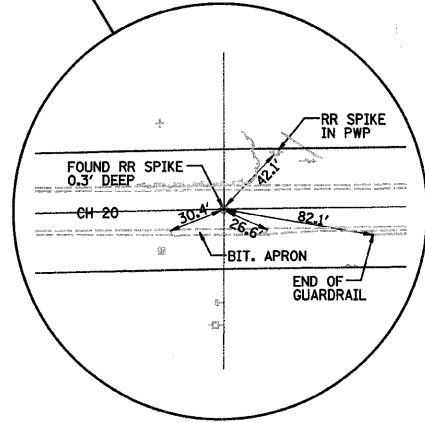
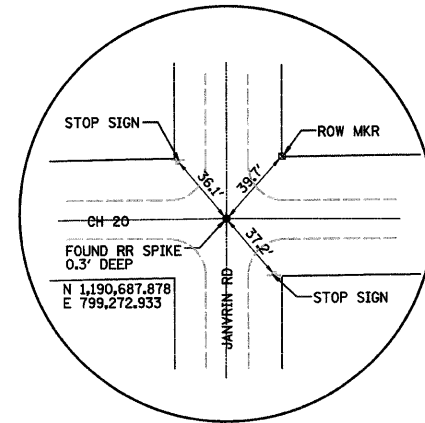
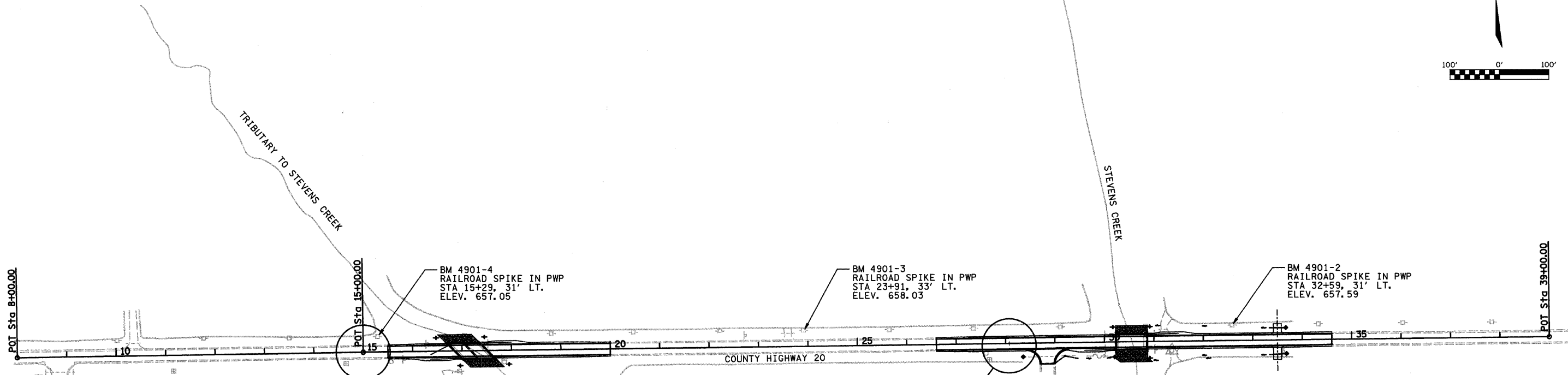
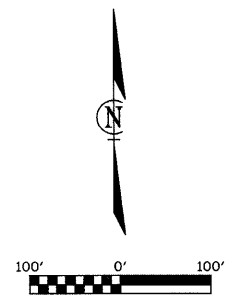
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(815) 489-0050

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	5
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

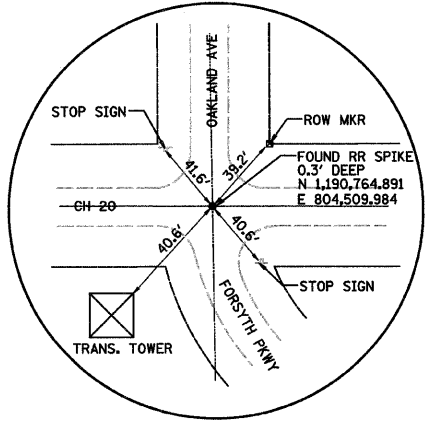
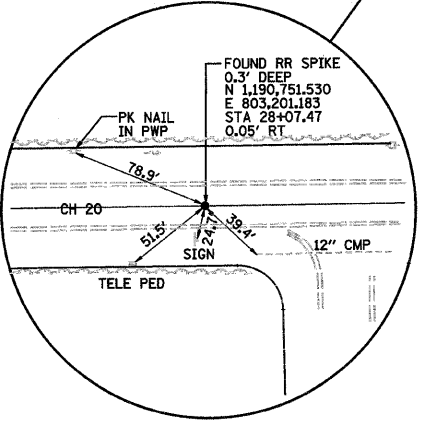
* 03-00184-00-BR

CH 20 CONSTRUCTION BASELINE DATA

Point D1000 N 1,190,730.328 E 801,193.821 Sta 8+00.00
 Course from D1000 to D1001 N 89° 20' 58" E Dist 700.000
 Point D1001 N 1,190,738.276 E 801,893.776 Sta 15+00.00
 Course from D1001 to D1002 N 89° 25' 02" E Dist 2,400.000
 Point D1002 N 1,190,762.690 E 804,293.652 Sta 39+00.00



STA 15+00.00
POINT D1001



REVISIONS				SECTION 03-00184-00-BR CH 20 OVER STEVENS CR		DRAWN BY DATE	
1				DLB	7/09		
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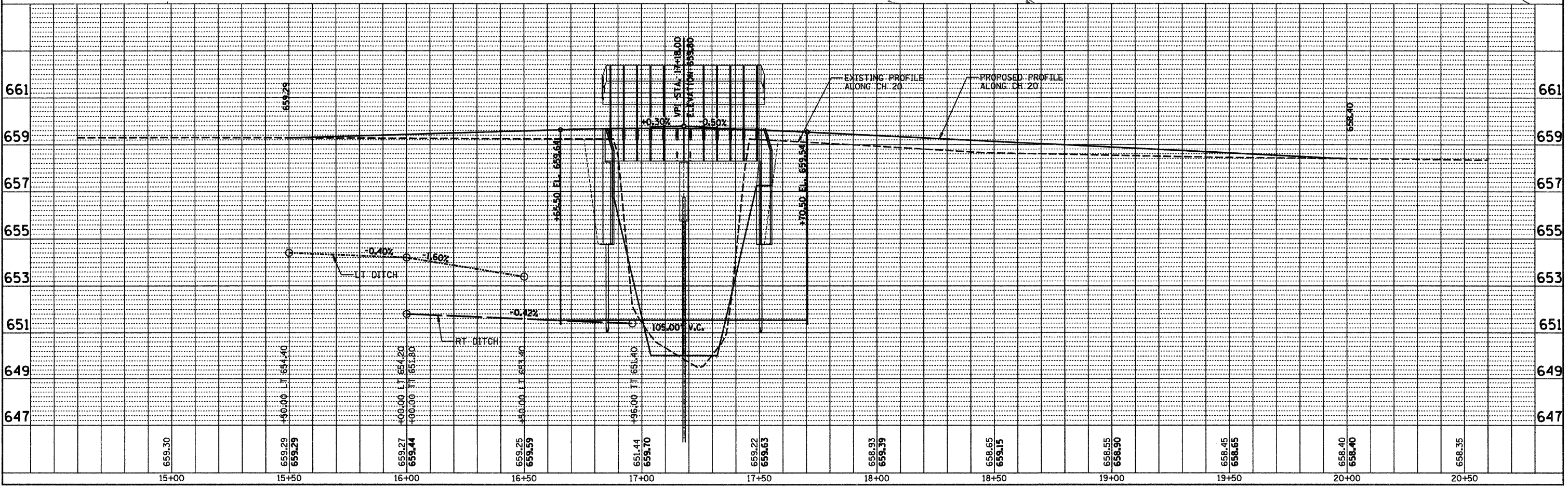
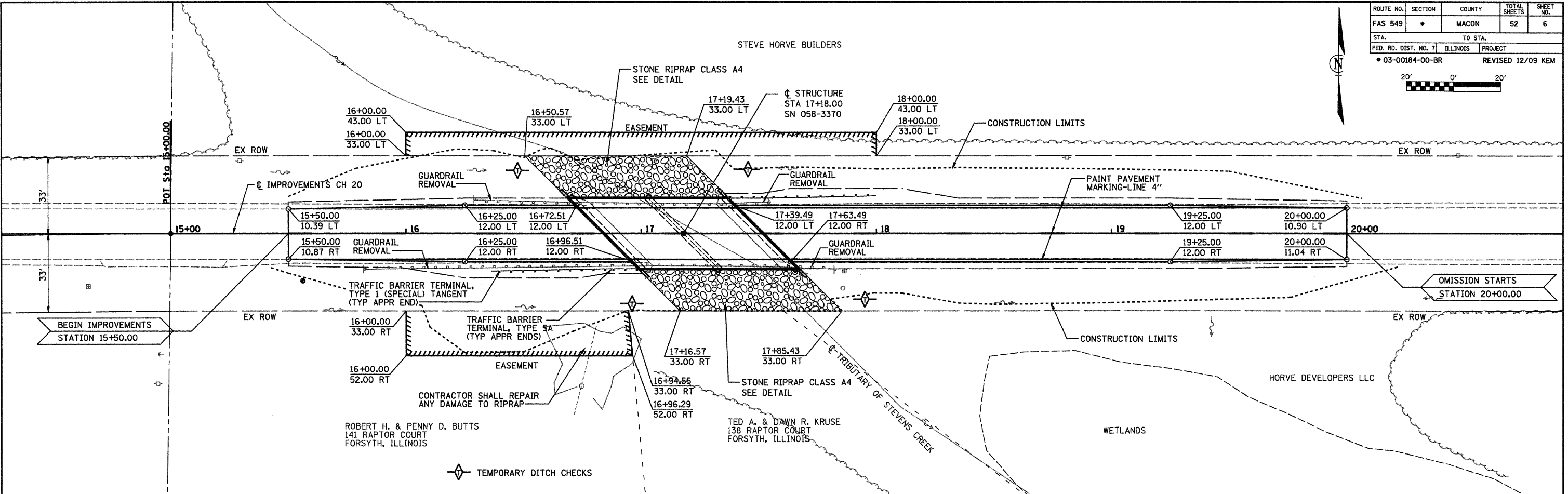
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	6
STA. TO STA.		ILLINOIS PROJECT		
FED. RD. DIST. NO. 7		PROJECT		
* 03-00184-00-BR		REVISED 12/09 KEM		



DATE: _____
 BY: _____
 SURVEYED: _____
 PLOTTED: _____
 CHECKED: _____
 RT. OF WAY CHECKED: _____
 NO. _____

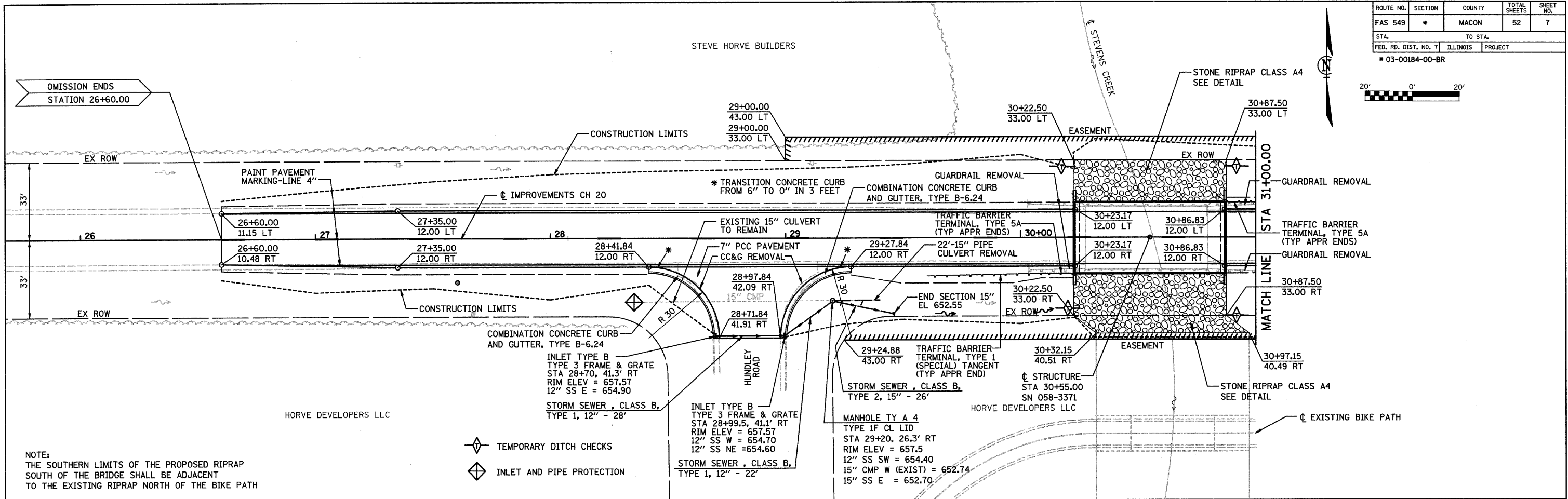
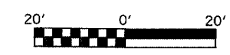
PROJECT: _____
 CONTRACT NO.: _____
 CONTRACTOR: _____
 ENGINEER: _____
 NO. _____

DATE: _____
 BY: _____
 SURVEYED: _____
 PLOTTED: _____
 CHECKED: _____
 STRUCTURE NOTATIONS CHECKED: _____
 NO. _____



TRIBUTARY TO STEVENS CREEK

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	7
STA.	TO STA.			
FED. RD. DIST. NO. 7	ILLINOIS	PROJECT		
* 03-00184-00-BR				



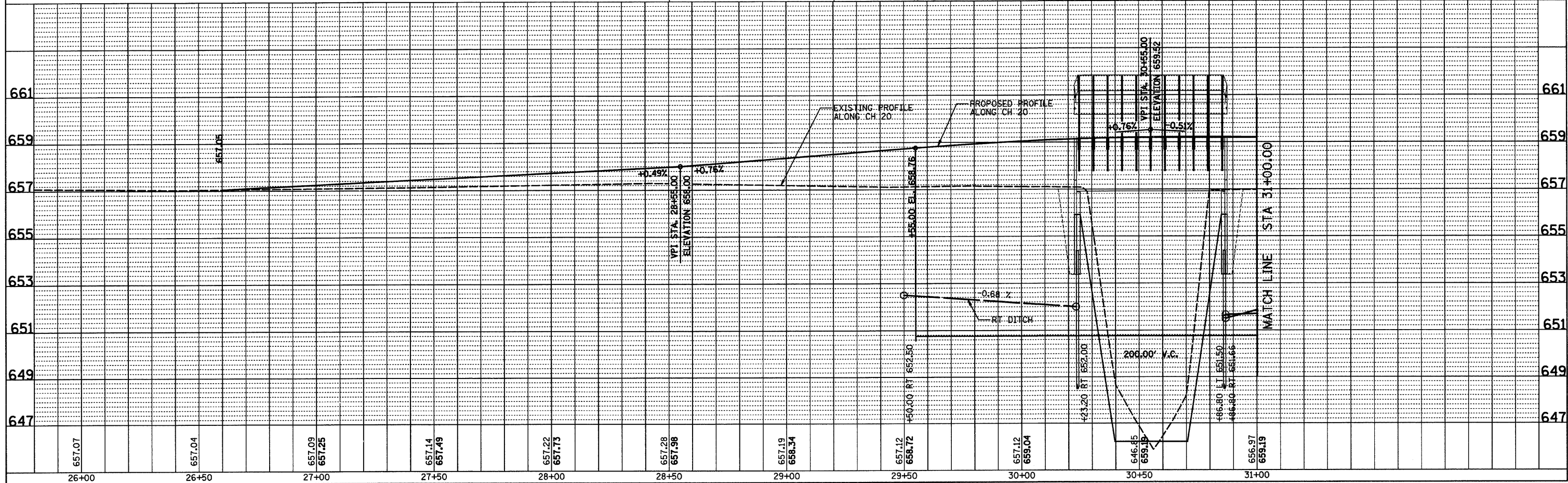
NOTE:
THE SOUTHERN LIMITS OF THE PROPOSED RIPRAP SOUTH OF THE BRIDGE SHALL BE ADJACENT TO THE EXISTING RIPRAP NORTH OF THE BIKE PATH

- TEMPORARY DITCH CHECKS
- INLET AND PIPE PROTECTION

DATE	
BY	
CHECKED	
PLANNED	
NOTED	
NO.	

CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
CINCINNATI, OHIO

DATE	
BY	
CHECKED	
PLANNED	
NOTED	
NO.	



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	8
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS PROJECT		
* 03-00184-00-BR				



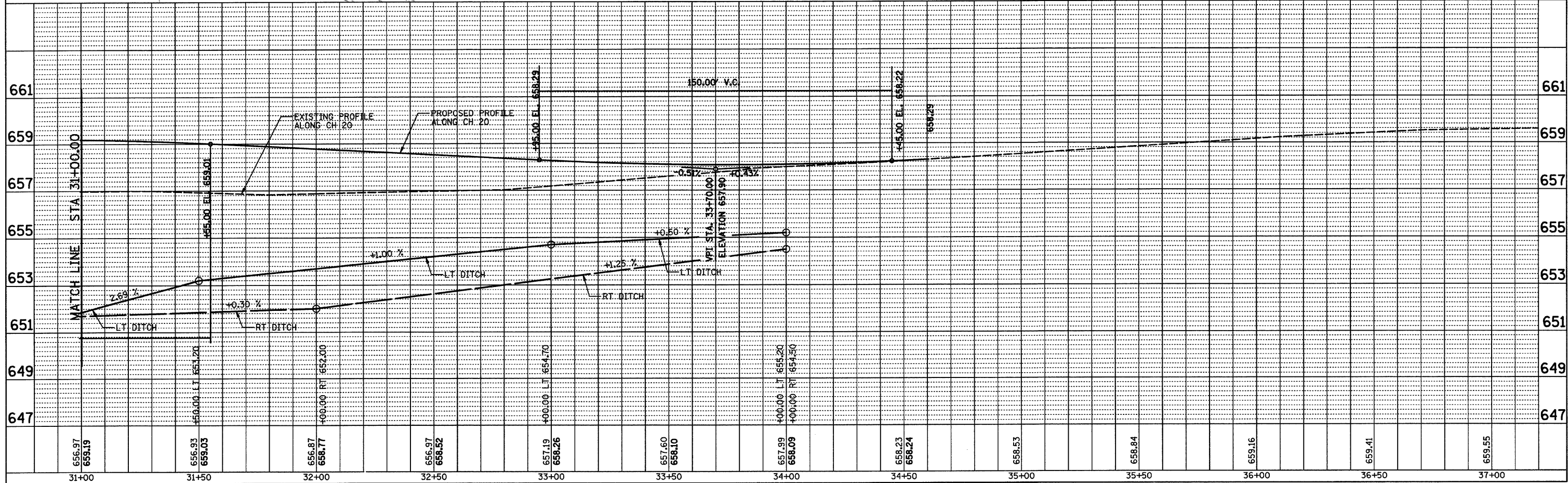
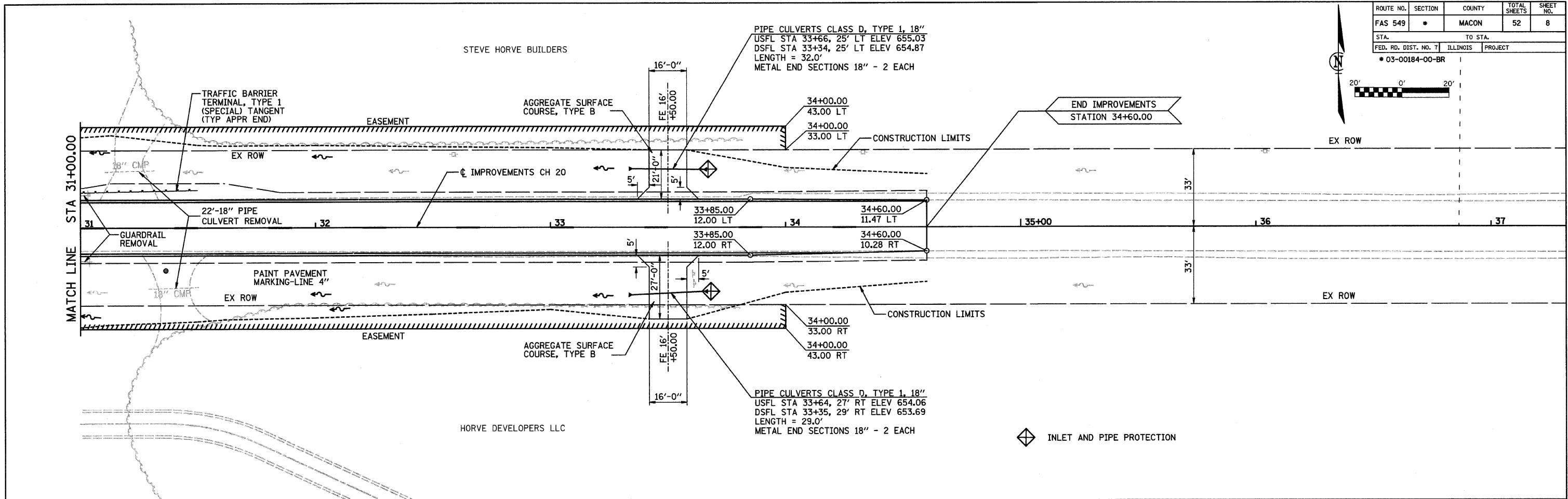
DATE	BY

PLAN	NOTED	DATE

DIRECTOR CHICAGO
 017 454-644 070 714-666
 ROCKFORD
 815 497-000
 HOMER L. CHASTAIN & ASSOCIATES, LLP
 CONSULTING ENGINEER
 04-00007

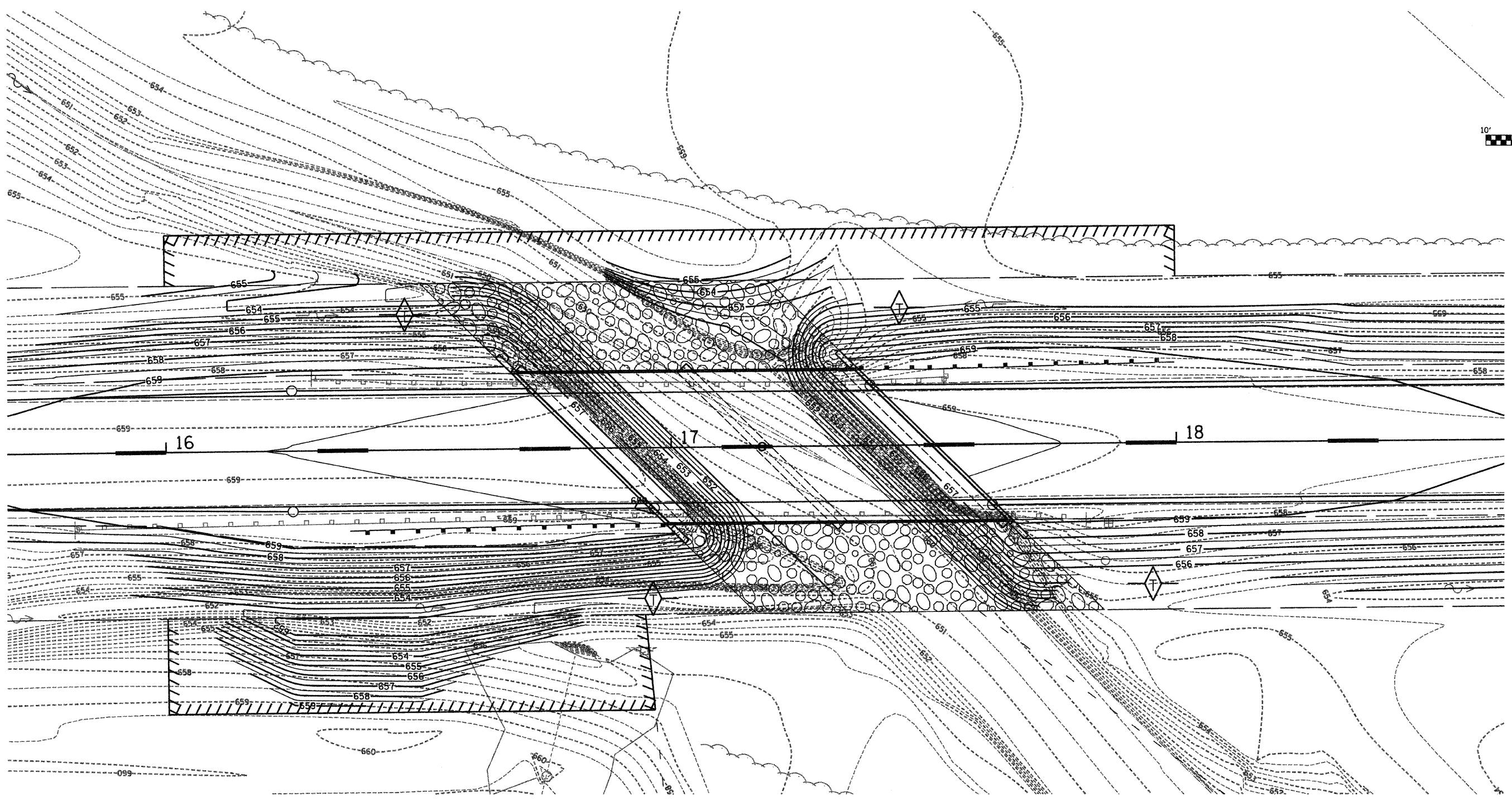
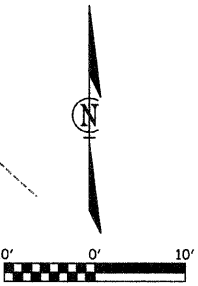
DATE	BY

PROFILE	NOTED	DATE



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	9
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

* 03-00184-00-BR



GRADING PLAN STRUCTURE 3370

SECTION 03-00184-00-BR			CH 20 OVER STEVENS CR		
MACON COUNTY			MACON COUNTY		
DRAWN BY: DLB			DATE: 7/09		
CHECKED BY: CAS			DATE: 7/09		
BOOK NUMBER: 259			PROJECT No.: 4901		
SHEET No.:					

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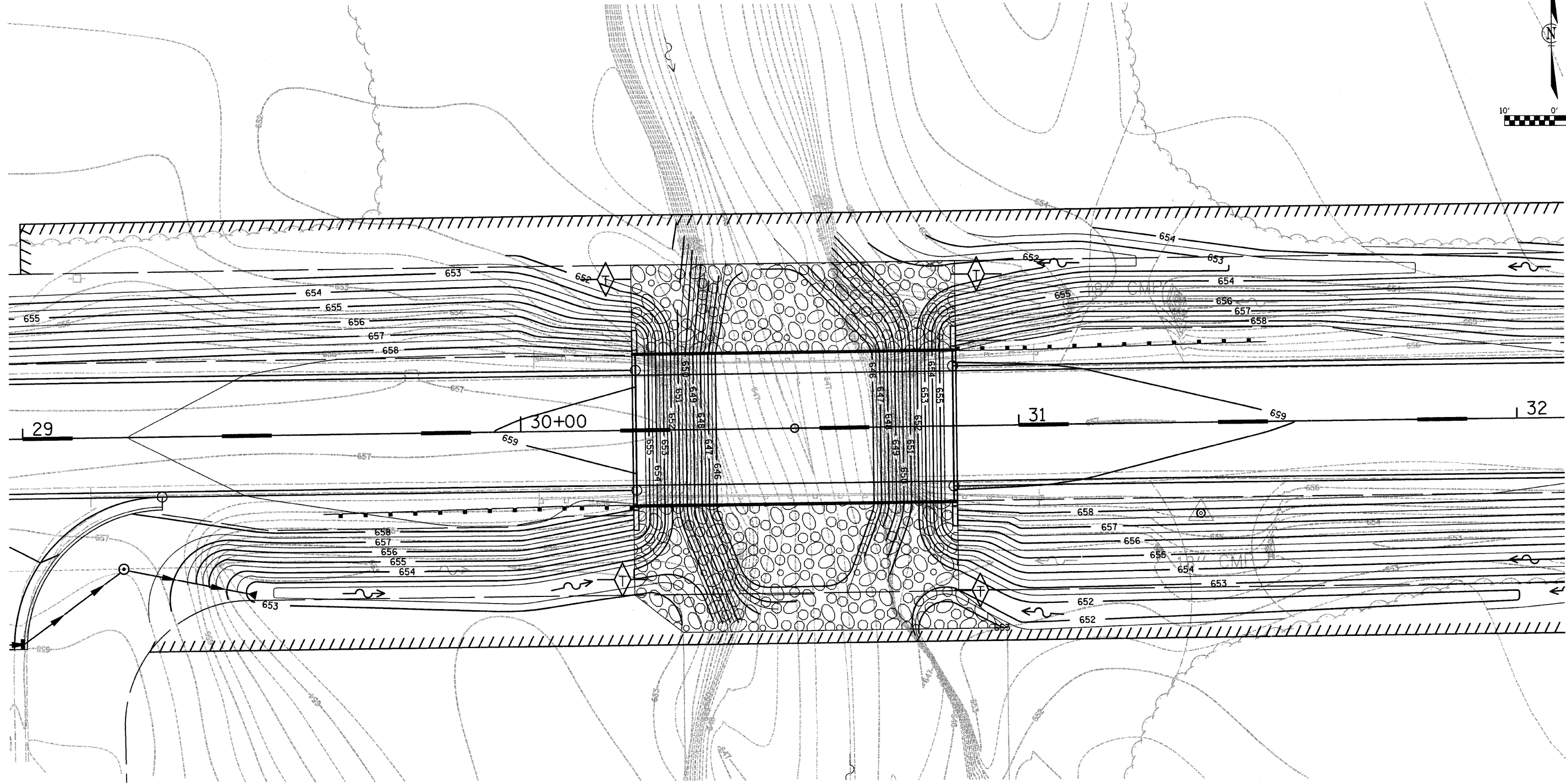
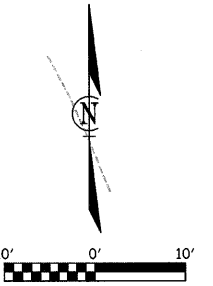
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REVISIONS	No.	DATE	INITIALS
	1	12/08	KEM
	2		
	3		
	4		
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	10
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

*03-00184-00-BR



GRADING PLAN STRUCTURE 3371

SECTION 03-00184-00-BR		CH 20 OVER STEVENS CR		DRAWN BY	DATE
MACON COUNTY				DLB	7/09
				CHECKED BY	DATE
				CAS	7/09
				BOOK NUMBER	259
				PROJECT No.	4901
				SHEET No.	

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REVISIONS	No.	DATE	INITIALS
	1		
	2		
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	11
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT	

*03-00184-00-BR

Bench Mark:
4901-3 RR spike in power pole on N side of CH 20
approx 400' west of Rife Bridge Elev 658.03
4901-4 RR spike in power pole on N side of CH 20
approx 200' west of Weigle Bridge Elev 657.05

Existing Structure:
Single span precast deck beams at 45° skew
on timber pile bent closed abutments.
Road to be closed during construction.

WEIGLE BRIDGE OVER STREAM
BUILT 20 BY
MACON COUNTY
SECTION 03-00184-00-BR
STA 17+18.00
STR. NO. 058-3370 LOADING HL93

LOADING HL93
Allow 50 lb/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
2007 LRFD Bridge Design Specifications
with 2008 Interims

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (reinforcement)

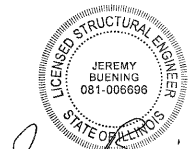
PRECAST PRESTRESSED UNITS
f'c = 6,000 psi
f'ci = 5,000 psi
f's = 270,000 psi (1/2" φ low relaxation strands)
f'si = 202,000 psi (1/2" φ low relaxation strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.15 g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.26 g
Soil Site Class = D

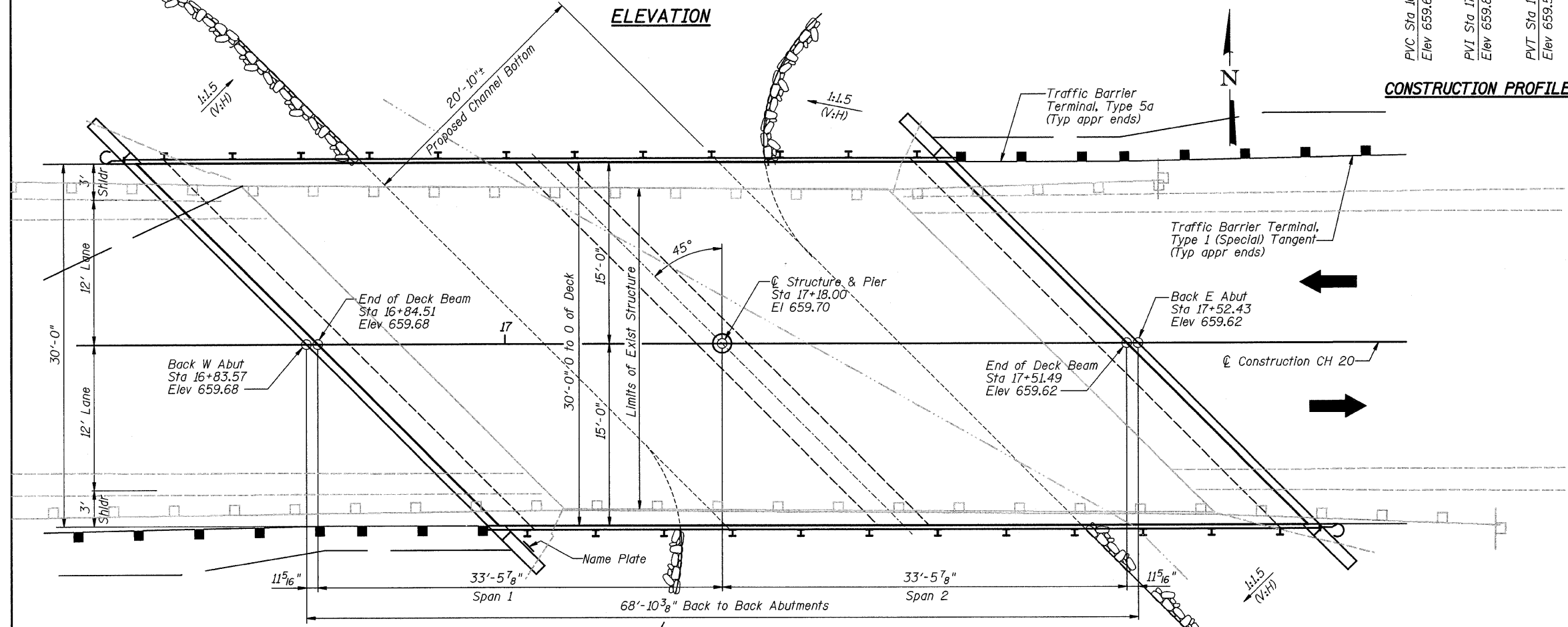
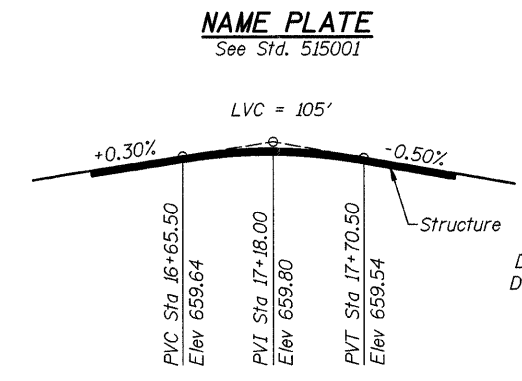
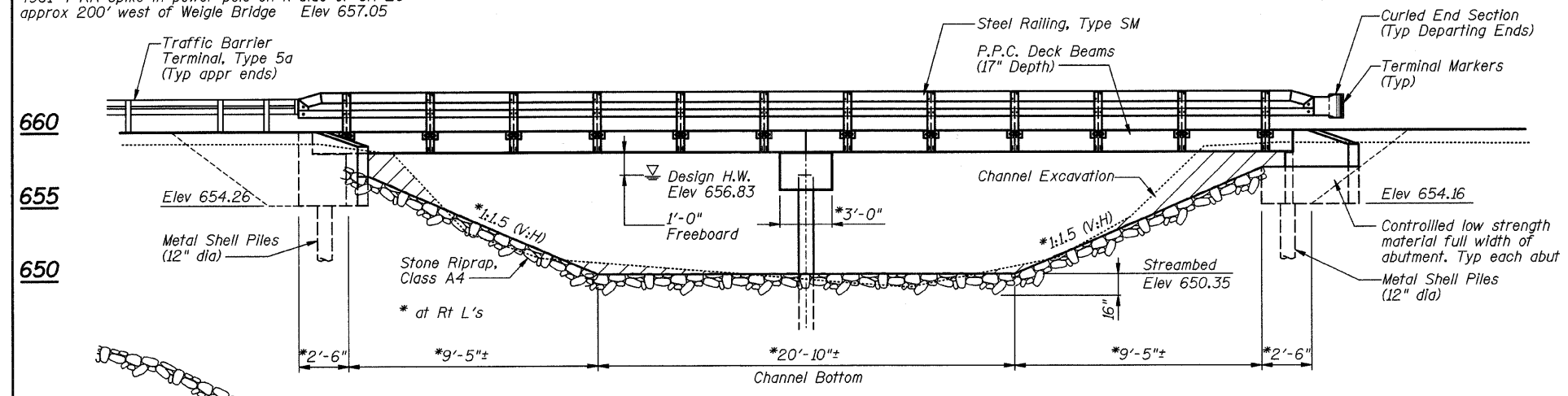
INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Details and Bill Of Material
- 3 17"x36" PPC Deck Beam Details
- 4 17"x36" PPC Deck Beam Details
- 5 Steel Railing, Type SM With HMA Wearing Surface
- 6 West Abutment Details
- 7 East Abutment Details
- 8 Pier Details
- 9 Metal Shell Pile Details
- 10 Soil Boring Logs



Jeremy Bluening
DATE: 11/02/09
EXP: 11/30/10

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 THE REQUIREMENTS OF THE CURRENT "AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES."



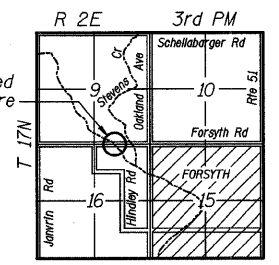
TRIBUTARY WATERWAY INFORMATION

Drainage Area = 5.87 sq mi Low Grade Elev. 657.04 @ Sta. 26+50

Flood Yr.	Freq.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	30	1355	211	224	656.83	0.62	0.56	647.45	657.39
Base	42	1481	-	226	656.83	-	0.63	-	657.46
Overtopping	56	1589	217	-	656.94	0.82	-	657.76	-
Max. Calc.	100	1790	230	242	657.13	1.59	0.94	658.72	658.07

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W Abut.	Pier	E Abut.
	651.26	647.35	651.16



CH 20 OVER TRIBUTARY TO STEVENS CREEK

GENERAL PLAN AND ELEVATION

REVISIONS		CH 20	SECTION 03-00184-00-BR	DRAWN BY DATE
No.	DATE	INITIALS	SN 058-3370	R KING 6/09
1				CHECKED BY DATE
2				JMB 6/09
3				BOOK NUMBER
4				
5				
6				
7				
8				
9				
10				

MACON COUNTY

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317-422-8544 770-714-0650

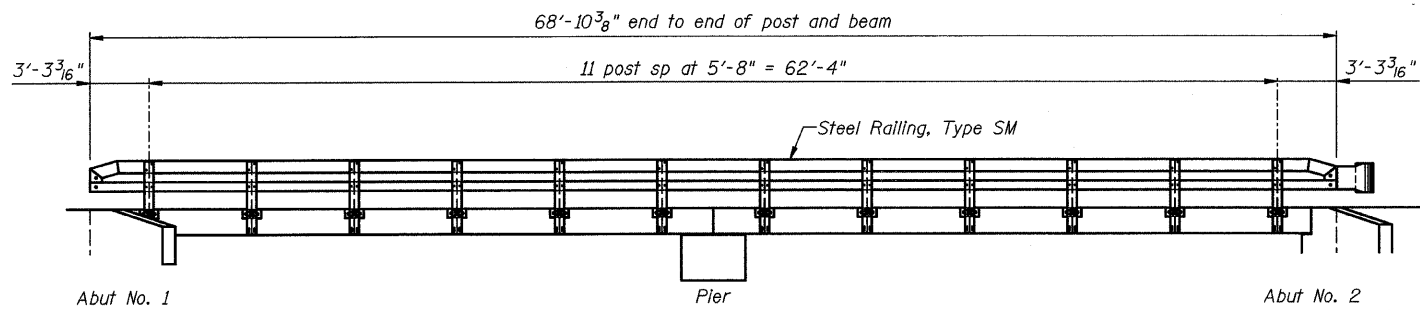
ROCKFORD
(815) 489-0050

PROJECT No. **4901**
SHEET No.

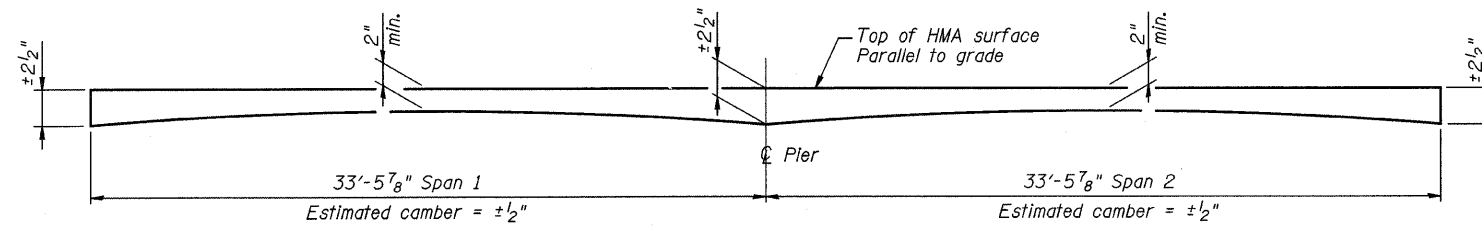
Sheet No. 2
of 10 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	12
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT	

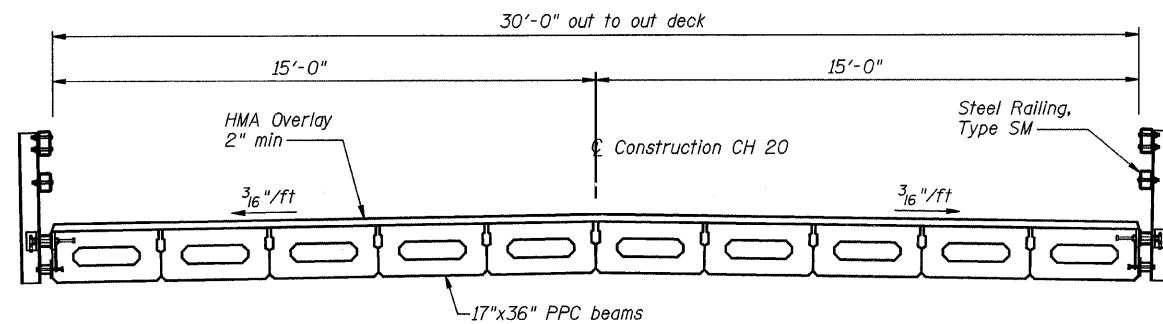
*03-00184-00-BR



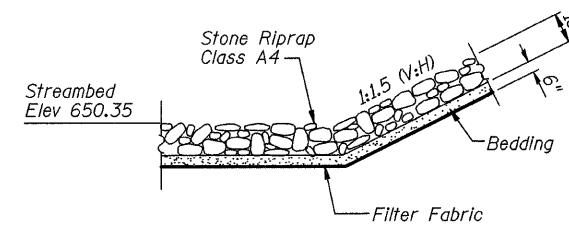
ELEVATION OF STEEL RAILING



HMA WEARING SURFACE PROFILE



PROPOSED CROSS SECTION



STONE RIPRAP DETAIL

TOTAL BILL OF MATERIAL

Item	Unit	Quantity
Removal of Existing Structures	Each	1
Channel Excavation	Cu Yd	31
Structure Excavation	Cu Yd	136
Stone Riprap, Class A4	Sq Yd	493
Filter Fabric	Sq Yd	493
Concrete Structures	Cu Yd	53.8
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq Ft	2005
Reinforcement Bars, Epoxy Coated	Pound	4450
Steel Railing, Type SM	Lin Ft	138
Furnishing Metal Pile Shells, 12"	Foot	483
Driving Piles	Foot	483
Test Pile Metal Shells	Each	1
Name Plates	Each	1
Controlled Low Strength Material	Cu Yd	68
Waterproofing Membrane System	Sq Yd	223
Terminal Markers Direct Applied	Each	4
Hot Mix Asphalt Surface Course, Mix "C" N50	Ton	31

GENERAL NOTES:

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.

All Construction joints shall be bonded.

See Roadway Plans for additional riprap limits.

Reinforcement bars designated (E) shall be epoxy coated.

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

CH 20 OVER TRIBUTARY TO STEVENS CREEK

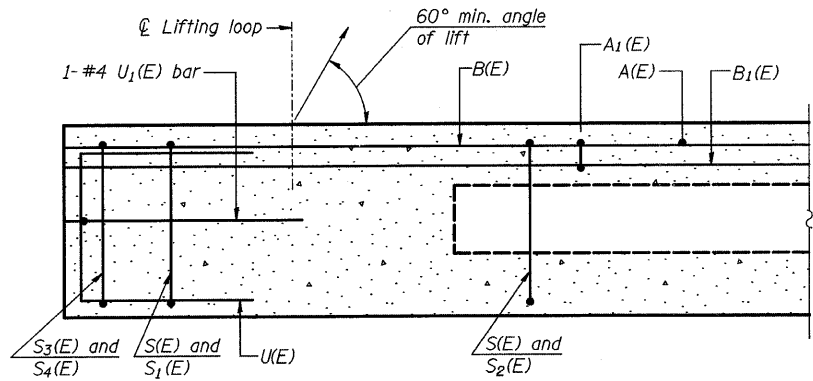
DETAILS AND BILL OF MATERIAL

REVISIONS	CH 20	SECTION 03-00184-00-BR	DRAWN BY DATE
1		SN 058-3370	R KING 6/09
2		MACON	CHECKED BY DATE
3		COUNTY	JMB 6/09
4			BOOK NUMBER
5			PROJECT NO.
6			4901
7			SHEET NO.
8			
9			
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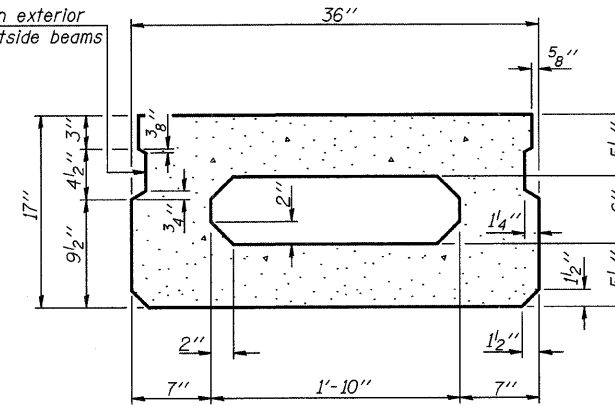
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	13
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT	

*03-00184-00-BR

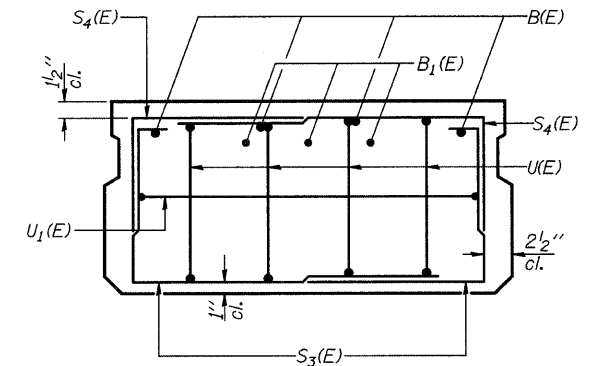


SECTION C-C

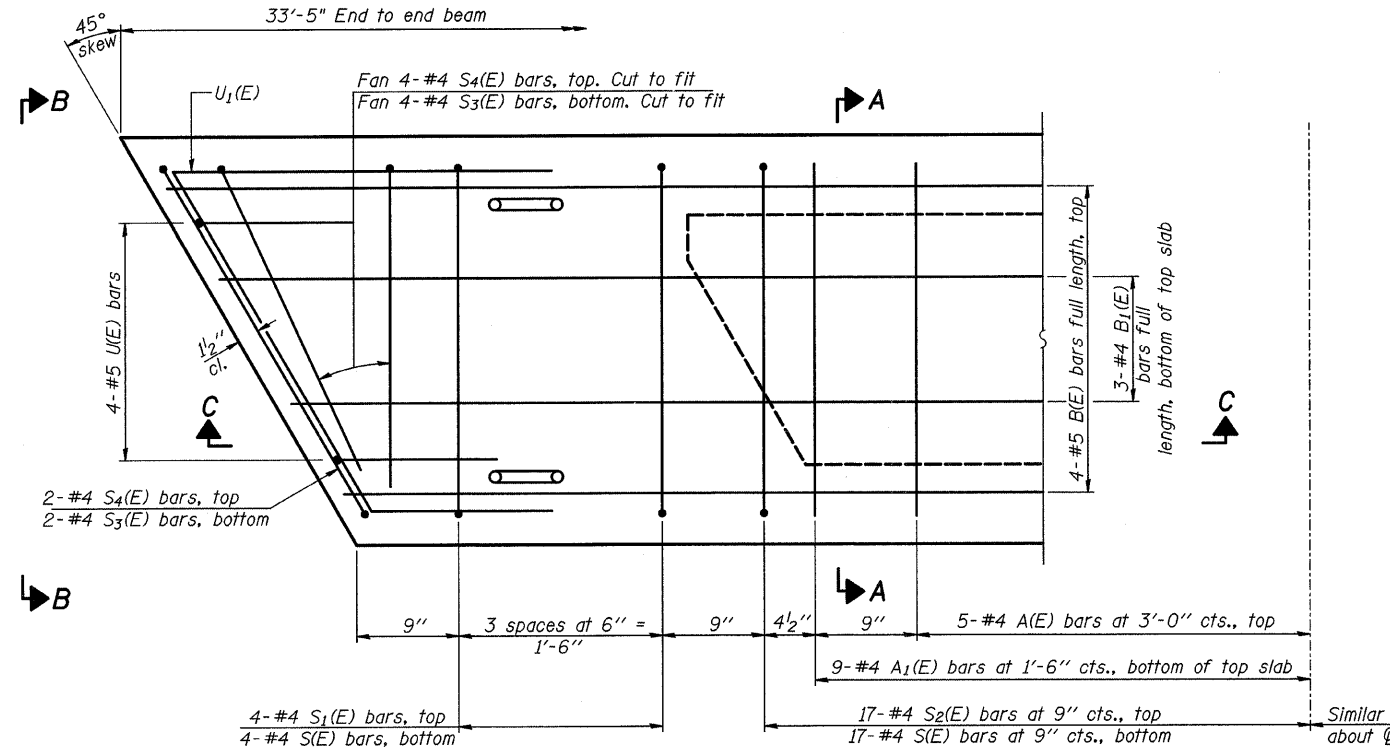
Omit key on exterior face of outside beams



SECTION A-A
(Showing dimensions)

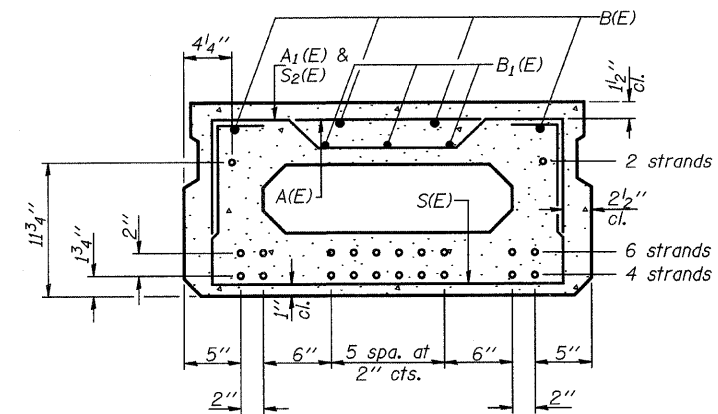


VIEW B-B



PLAN VIEW

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



SECTION A-A

(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)	9	#4	2'-7"	—
A1(E)	34	#4	2'-10"	—
B(E)	4	#5	33'-2"	—
B1(E)	3	#4	33'-2"	—
S(E)	41	#4	5'-9"	U
S1(E)	8	#4	4'-3"	U
S2(E)	33	#4	4'-6"	U
S3(E)	12	#4	4'-2"	U
S4(E)	12	#4	3'-5"	U
U(E)	8	#5	3'-8"	U
U1(E)	2	#4	8'-6"	U

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

CH 20 OVER TRIBUTARY TO STEVENS CREEK

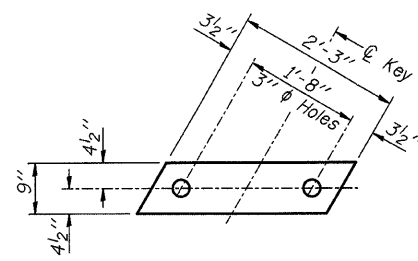
17" X 36" PPC DECK BEAM DETAILS

REVISIONS	CH 20	SECTION 03-00184-00-BR	DRAWN BY DATE
1	DATE INITIALS	SN 058-3370	R KING 6/09
2		MACON COUNTY	CHECKED BY DATE
3			JMB 6/09
4			BOOK NUMBER
5			
6			PROJECT NO.
7			4901
8			SHEET NO.
9			
10			

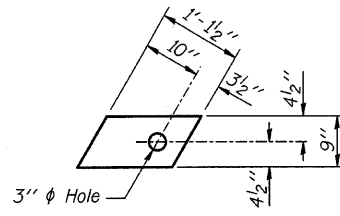
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Sheet No. 4
of 10 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	14
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT	



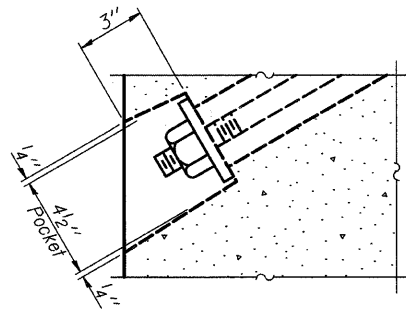
FABRIC BEARING PAD
(Interior)



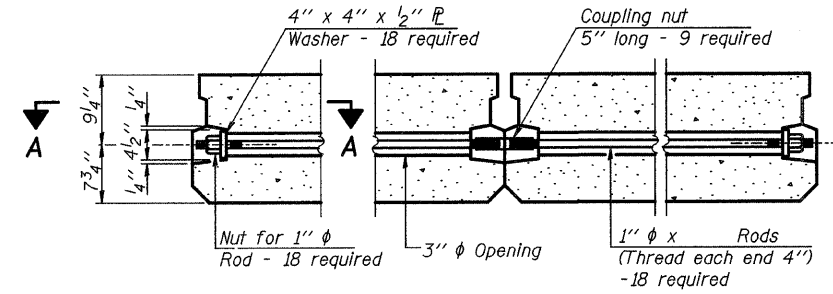
FABRIC BEARING PAD
(Exterior)

FIXED

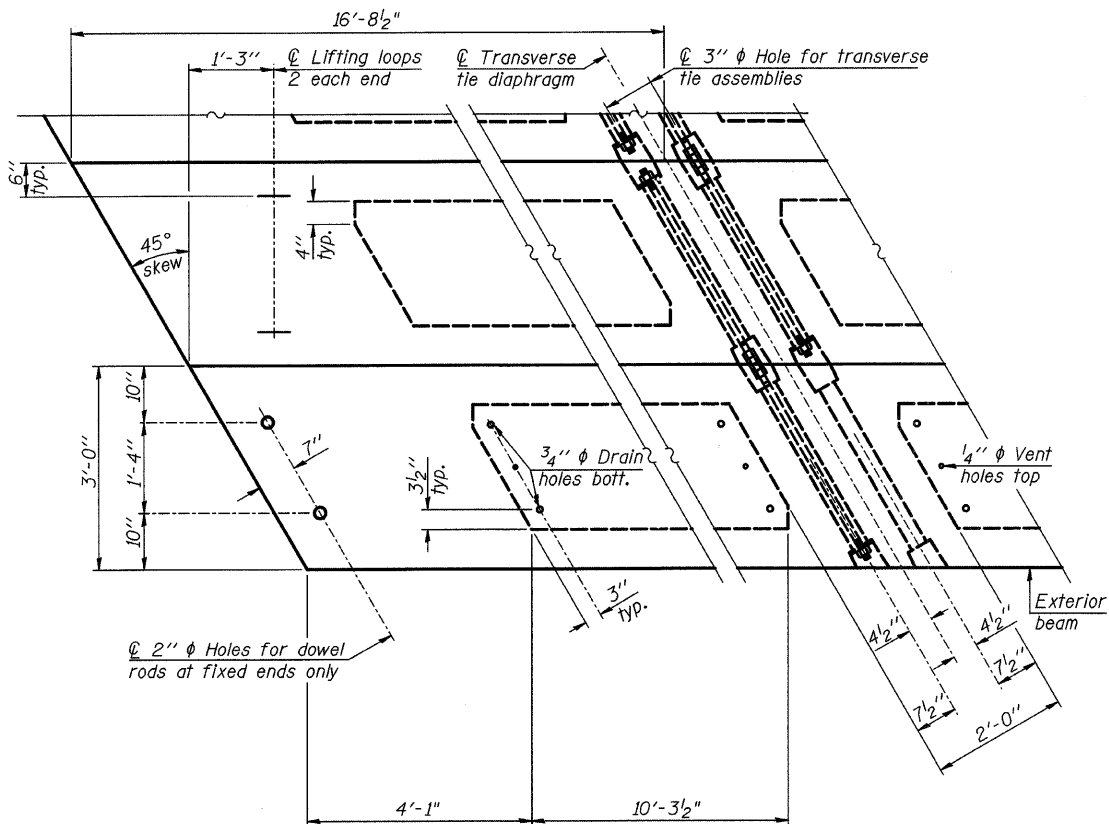
Note: Omit holes when using expansion bearings.



SECTION A-A

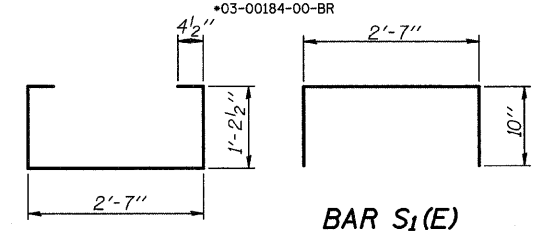


TYPICAL TRANSVERSE TIE ASSEMBLY



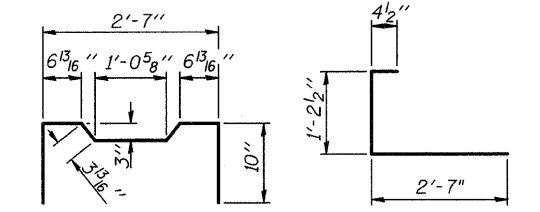
PLAN VIEW

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



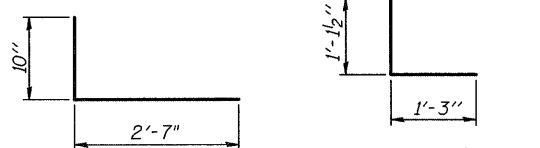
BAR S₁(E)

BAR S(E)



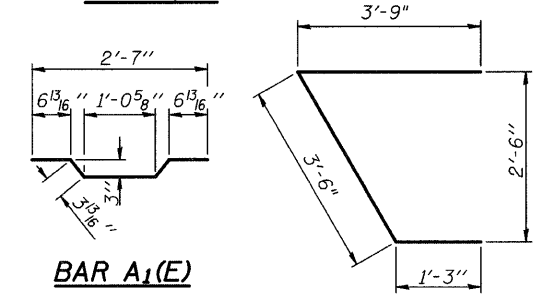
BAR S₂(E)

BAR S₃(E)



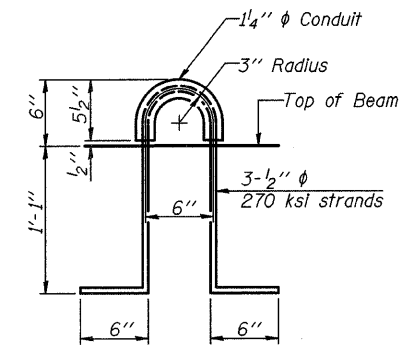
BAR S₄(E)

BAR U(E)



BAR A₁(E)

BAR U₁(E)



LIFTING LOOP DETAIL

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" phi 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. (See Special Provisions). 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" phi 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. The top surface of the beams shall be finished according to Article 504.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of 1/4".

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	2005
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CH 20 OVER TRIBUTARY TO STEVENS CREEK

17" X 36" PPC DECK BEAM DETAILS

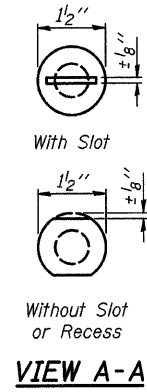
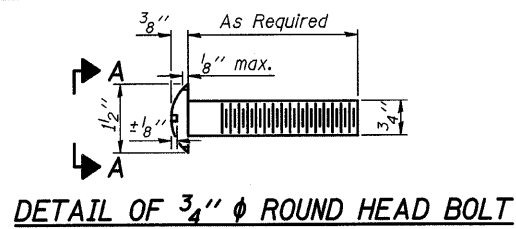
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1		SN 058-3370	R KING 6/09
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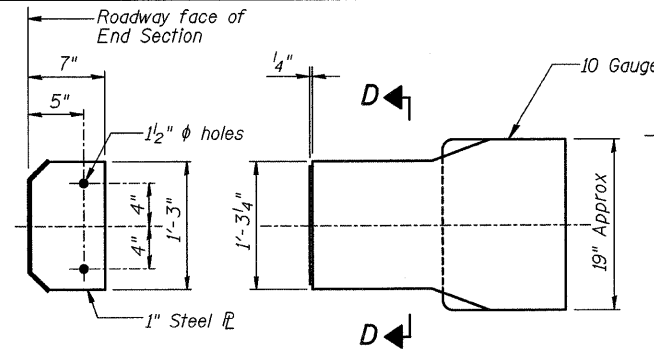
PROJECT No. 4901
SHEET No.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT	

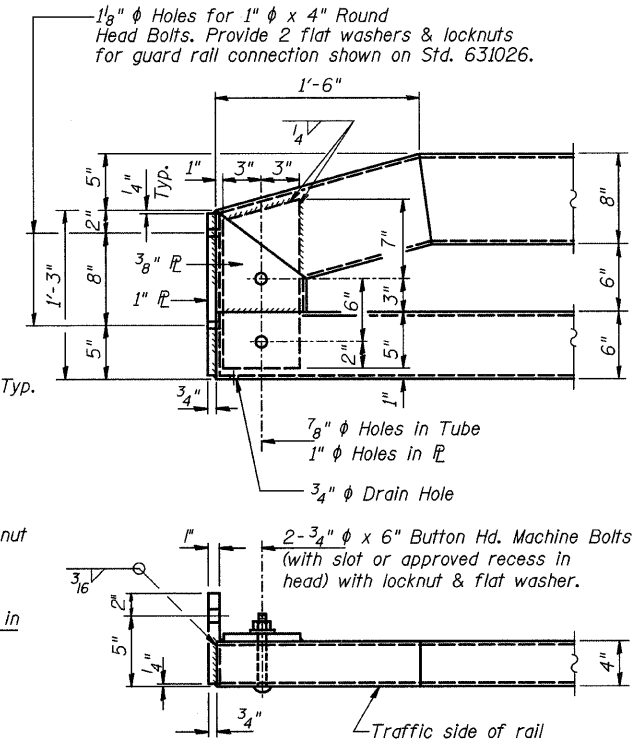
*03-00184-00-BR



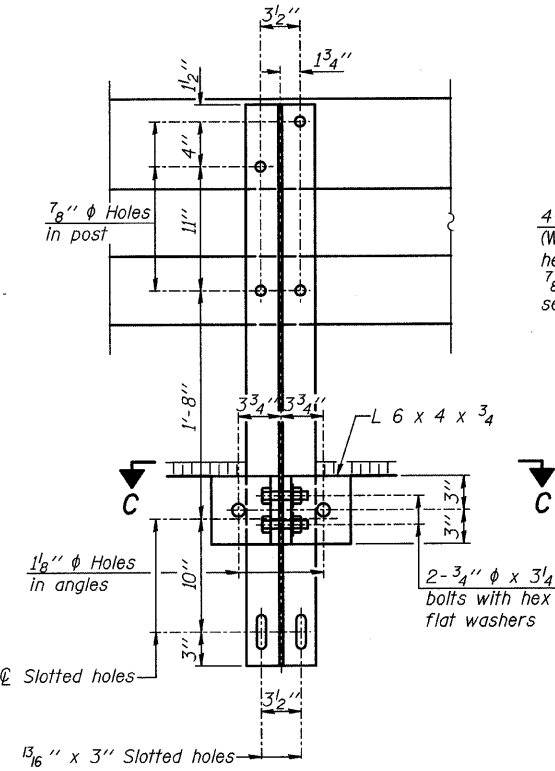
4-3/4" ϕ x 6" Round Head Bolts
(With slot or approved recess in head) with locknut & flat washer.
7/8" ϕ holes in hollow structural section may be drilled in the field.



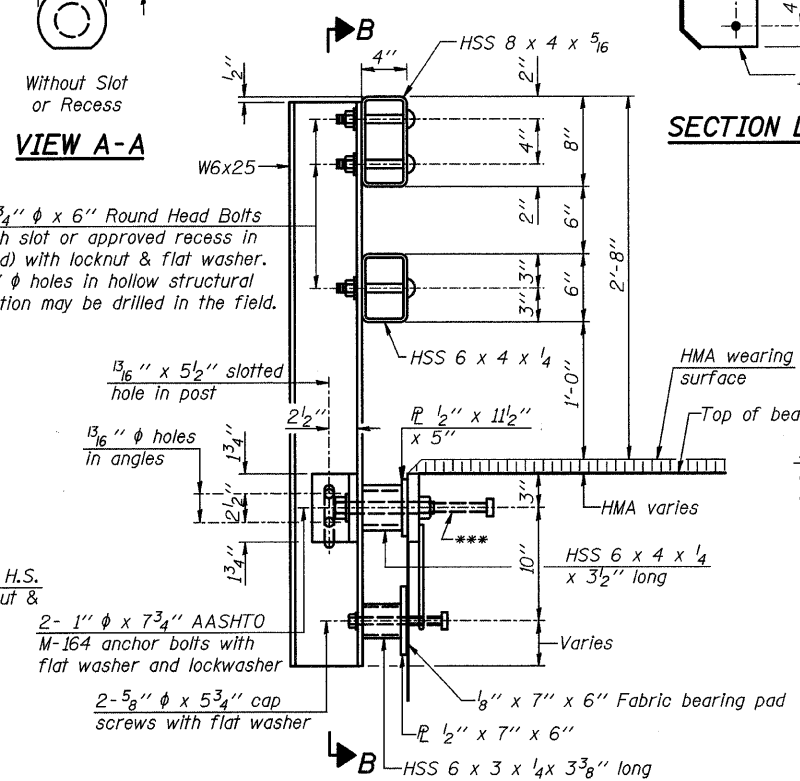
SECTION D-D
DETAILS OF CURLED END SECTION
(Cost included with Steel Railing, Type SM)



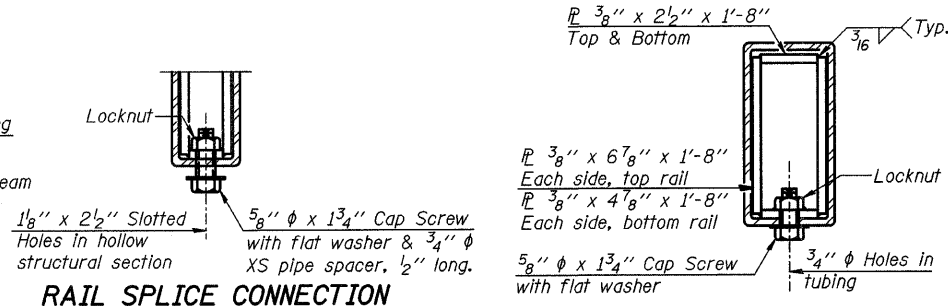
END OF RAIL DETAILS



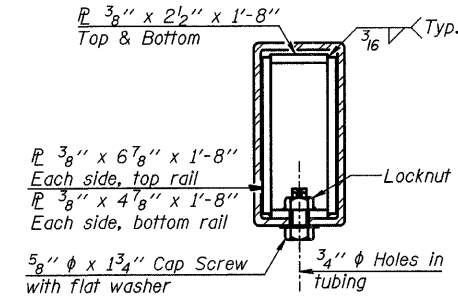
SECTION B-B



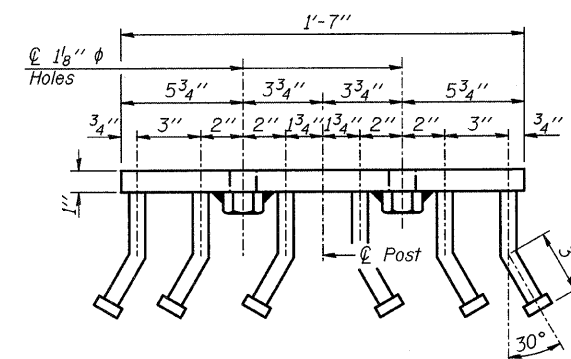
SECTION AT RAIL POST



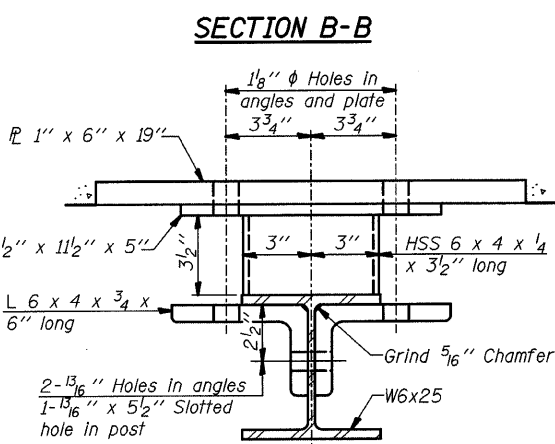
RAIL SPLICE CONNECTION AT EXPANSION JT.



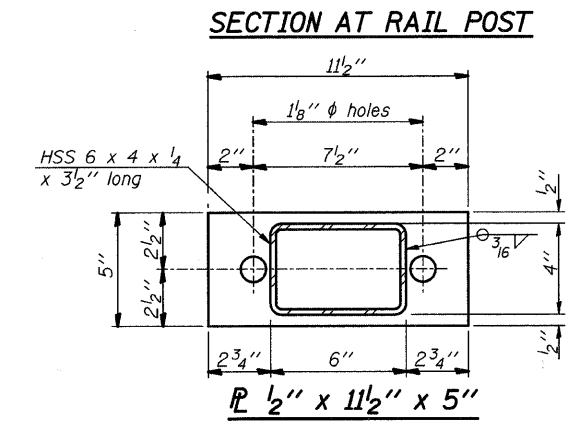
SECTION AT RAIL SPLICE



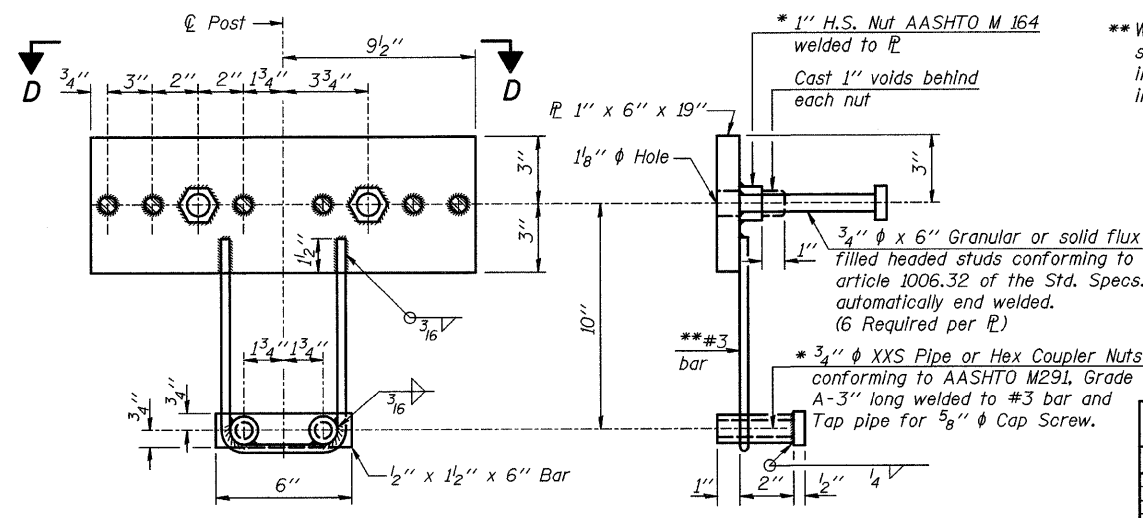
VIEW D-D



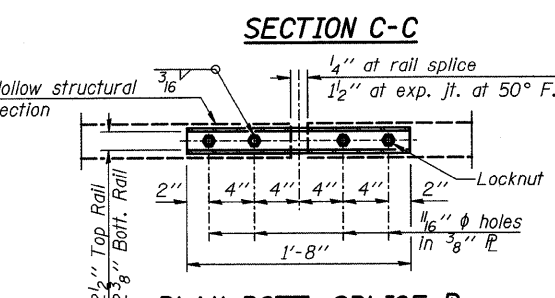
SECTION C-C



Anchor Device



ANCHOR DEVICE



PLAN-BOTT. SPLICE R TYPICAL

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.

**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 2".

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	138

R-34HMAWS 10-1-08 (6'-3" Maximum Post Spacing) (1/4" minimum to 3/8" maximum HMA thickness)

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

CH 20 OVER TRIBUTARY TO STEVENS CREEK

STEEL RAILING, TYPE SM WITH HMA WEARING SURFACE

REVISIONS	CH 20	SECTION 03-00184-00-BR	DRAWN BY DATE
1		SN 058-3370	R KING 6/09
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6			PROJECT NO.
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9			
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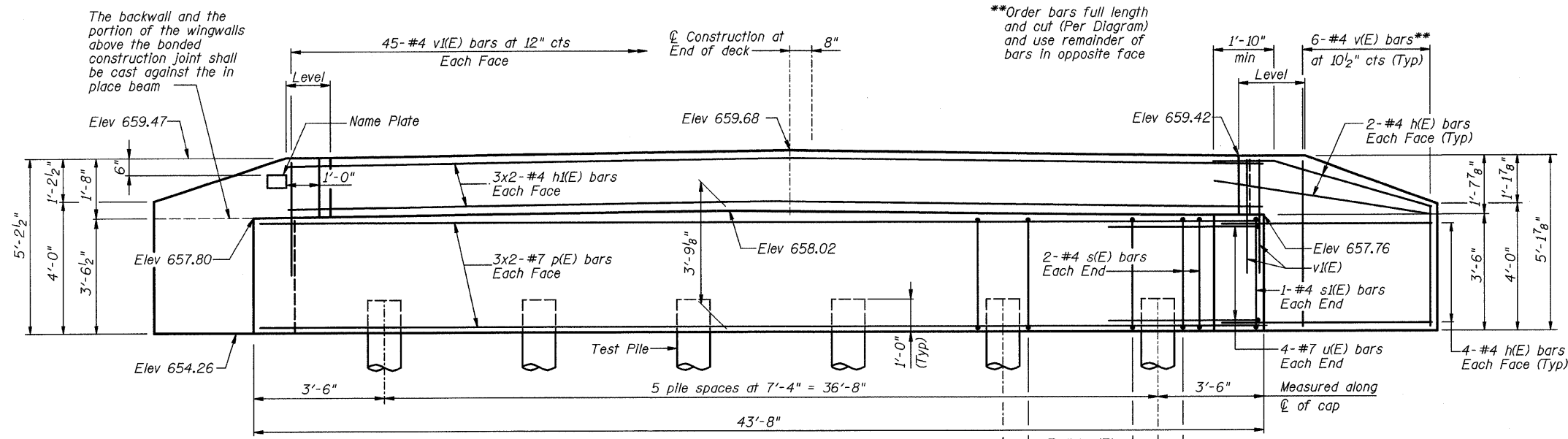
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	16
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

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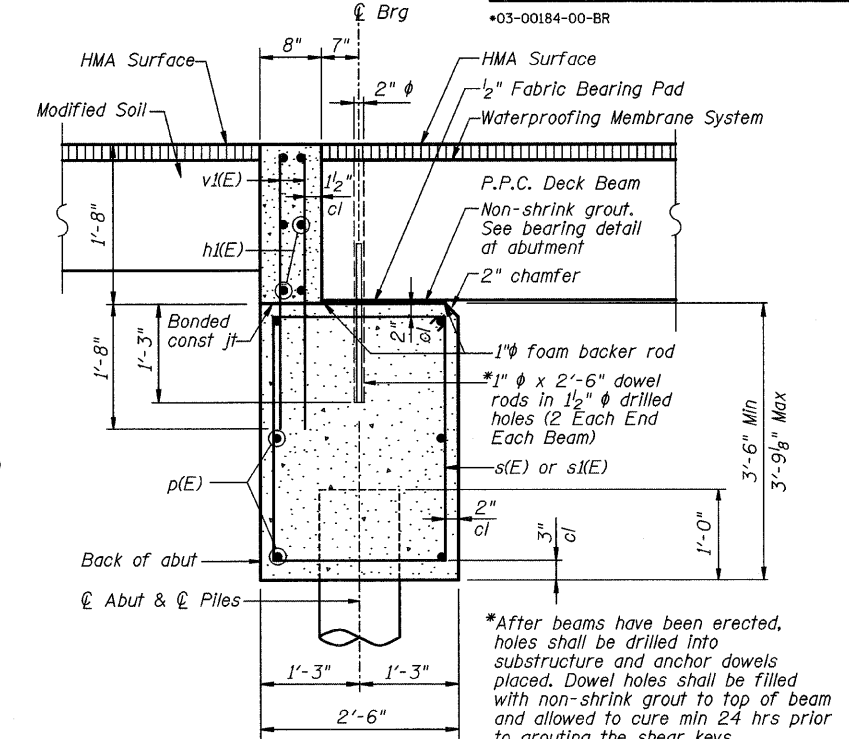
PILE DATA:

Type and Size: Metal Shell 12 in. dia x 0.25 in walls
 Nominal Required Bearing: 159 kips
 Allowable Resistance Available: 53 kips
 Est. Length: 21'
 No. Production Piles: 5
 No. Test Piles: 1

ELEVATION

MIN BAR LAP

#4 bar = 1'-8"
 #7 bar = 3'-5"



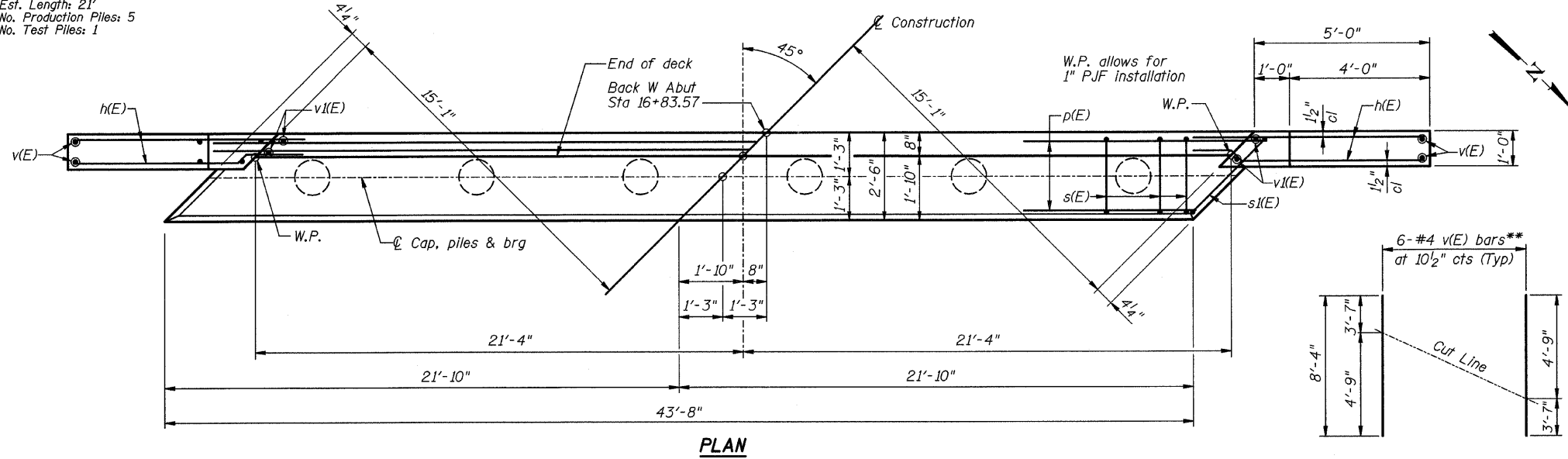
SECTION THRU ABUTMENT

(Dimensions at Rt L's)

BILL OF MATERIAL

Bar No.	Size	Length	Shape
h(E) 24	#4	7'-2"	—
h(E) 12	#4	22'-2"	—
p(E) 12	#7	24'-3"	—
s(E) 39	#4	11'-3"	□
s(E) 2	#4	13'-1"	□
u(E) 8	#7	11'-11"	└
v(E) 12	#4	8'-4"	—
v(E) 90	#4	3'-4"	—
Structure Excavation	Cu Yd	68	
Concrete Structures	Cu Yd	18.3	
Reinforcement Bars (Epoxy Coated)	Pound	1660	
Furnishing Metal Pile Shells 12"x0.250"	Foot	105	
Driving Piles	Foot	105	
Controlled Low Strength Material	Cu Yd	34	
Test Pile Metal Shells	Each	1	

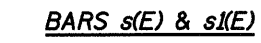
Reinforcement bars designated (E) shall be epoxy coated.



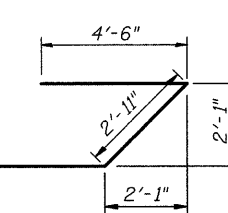
PLAN

FIELD CUTTING DIAGRAM

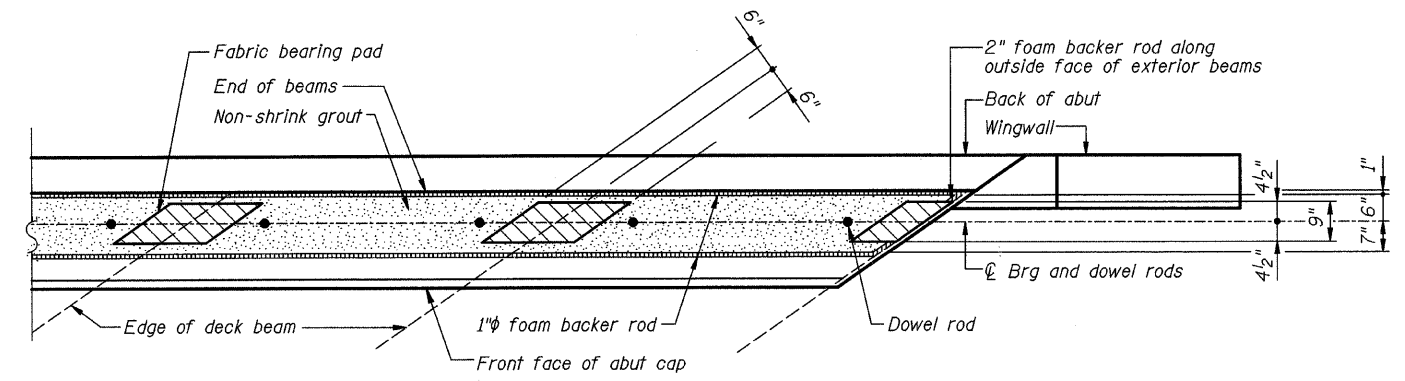
**Order v(E) full length. Cut as shown and use remainder of bars in opposite face.



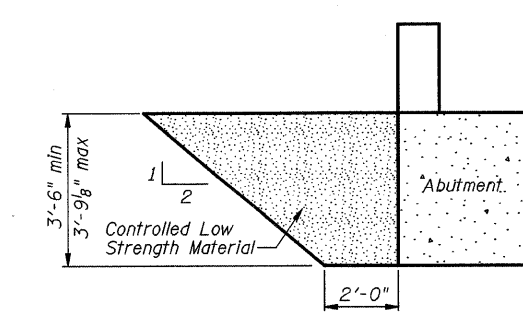
BARS s(E) & s(E)



BAR u(E)



ALTERNATE FIXED BEARINGS AT ABUTMENT



CONTROLLED LOW STRENGTH MATERIAL LIMITS

CH 20 OVER TRIBUTARY TO STEVENS CREEK

WEST ABUTMENT DETAILS

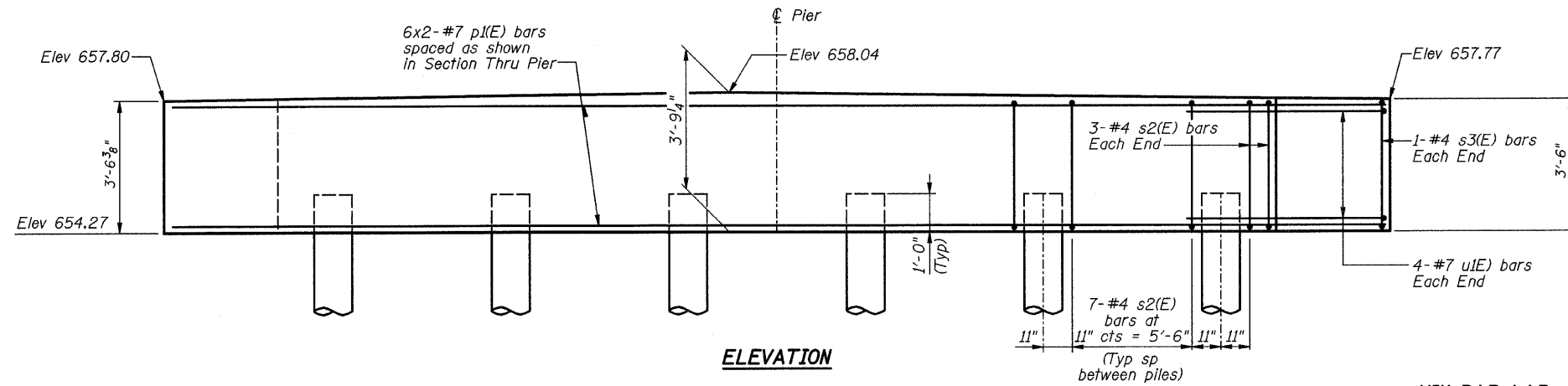
REVISIONS	CH 20	SECTION 03-00184-00-BR	DRAWN BY DATE
1	MACON	SN 058-3370	R KING 6/09
2			CHECKED BY DATE
3			JMB 6/09
4			BOOK NUMBER
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PROJECT NO. 4901
 SHEET NO.

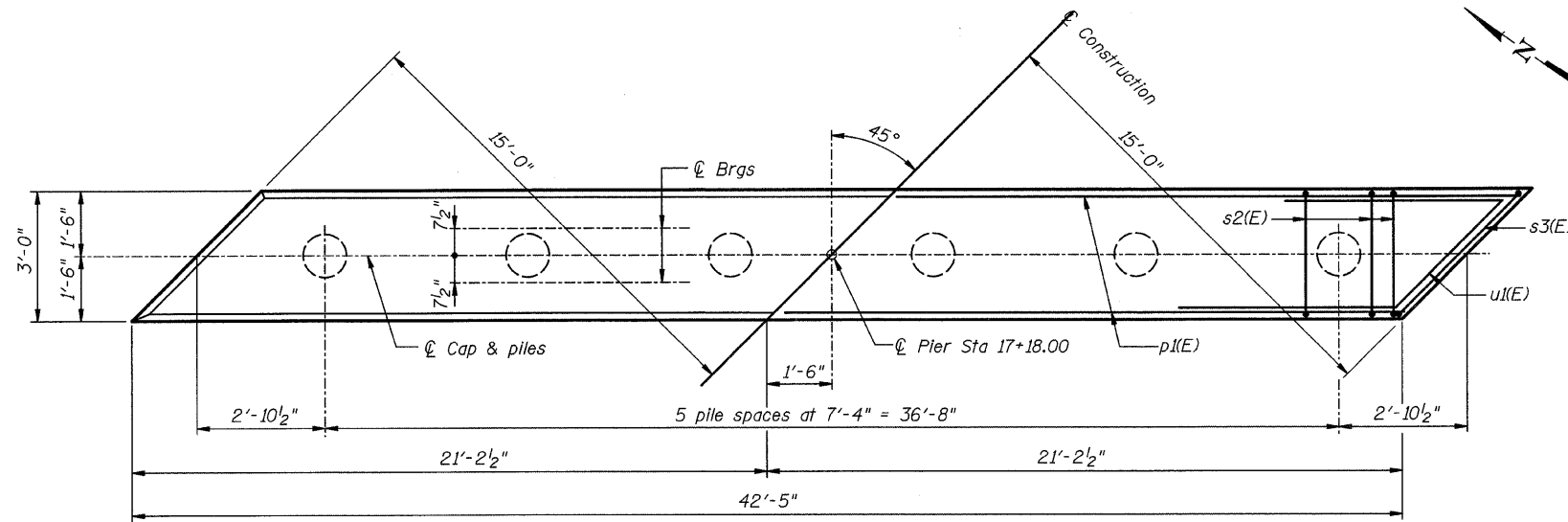
Sheet No. 8
of 10 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	18
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

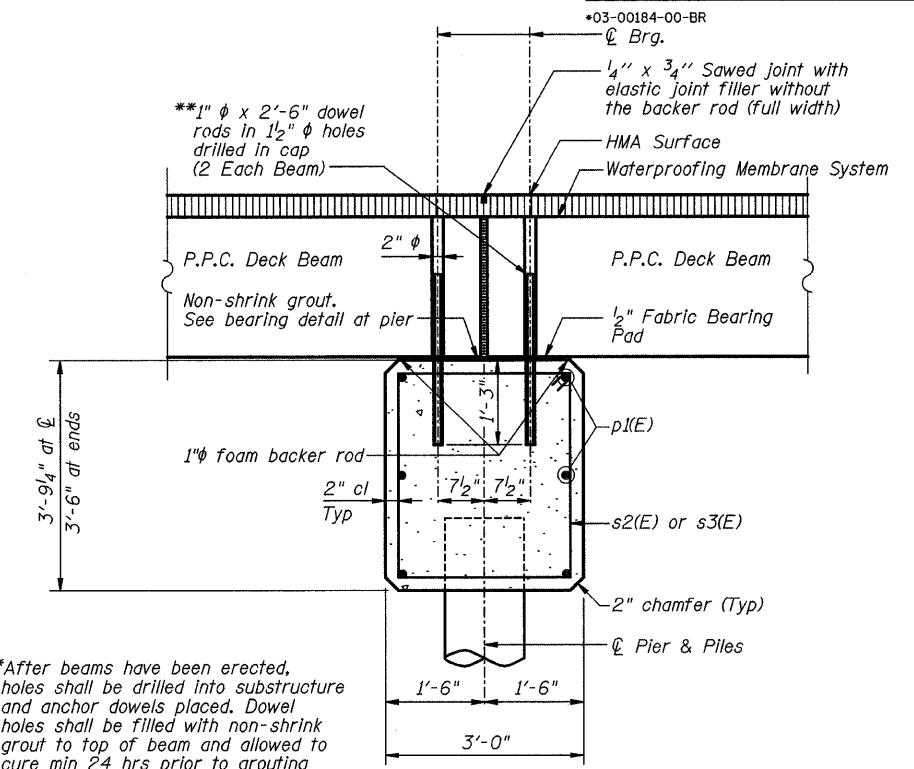


ELEVATION

MIN BAR LAP
#7 bar = 3'-5"



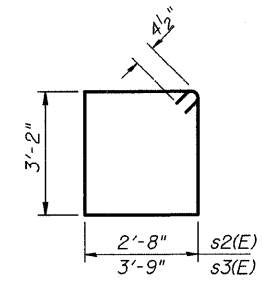
PLAN



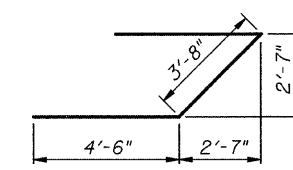
SECTION THRU PIER

(Dimensions at Rt L's)

***After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min 24 hrs prior to grouting the shear keys.



BARS s2(E) & s3(E)



BAR u1(E)

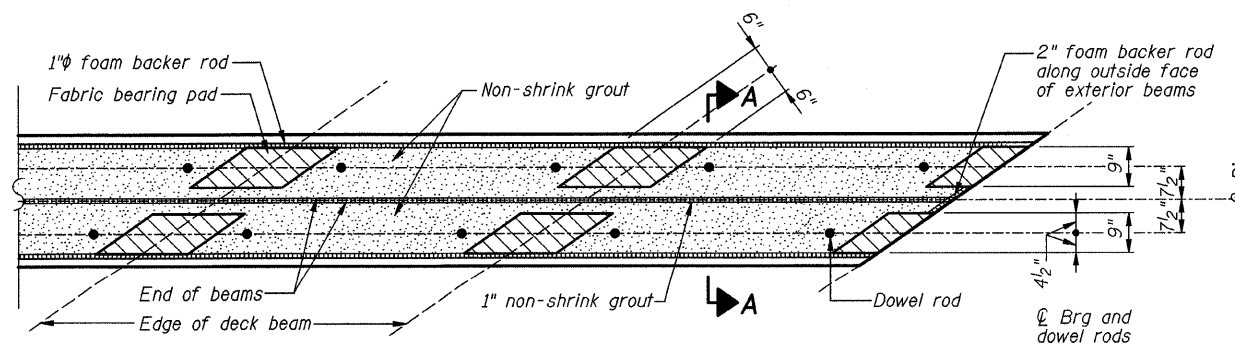
PIER NO. 1 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
p1(E)	12	#7	22'-9"	—
s2(E)	41	#4	12'-5"	□
s3(E)	2	#4	14'-7"	□
u1(E)	8	#7	12'-8"	—
Concrete Structures		Cu Yd	17.2	
Reinforcement Bars (Epoxy Coated)		Pound	1130	
Furnishing Metal Pile Shells 12"x0.250"		Foot	252	
Driving Piles		Foot	252	

Reinforcement bars designated (E) shall be epoxy coated.

PILE DATA:

Type and Size: Metal Shell 12 in dia x 0.25 in walls
Nominal Required Bearing: 225 kips
Allowable Resistance Available: 75 kips
Est. Length: 42'
No. Production Piles: 6
No. Test Piles: 0



ALTERNATE FIXED BEARINGS AT PIER

CH 20 OVER TRIBUTARY TO STEVENS CREEK

PIER DETAILS

REVISIONS	CH 20	SECTION 03-00184-00-BR	DRAWN BY DATE
1		SN 058-3370	R KING 6/09
2		MACON	CHECKED BY DATE
3		COUNTY	JMB 6/09
4			BOOK NUMBER
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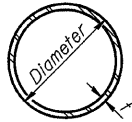
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PROJECT No. **4901**
SHEET No.

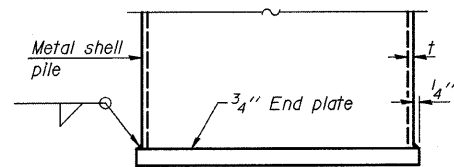
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FAS 549	*	MACON	52	19
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT	

*03-00184-00-BR

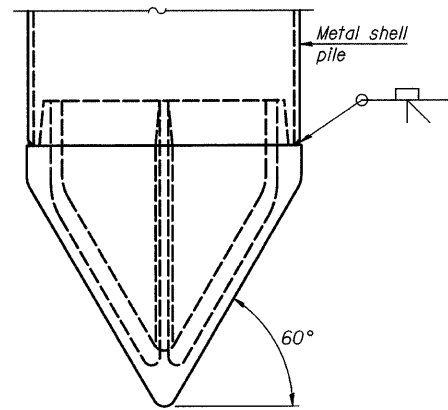


METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /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



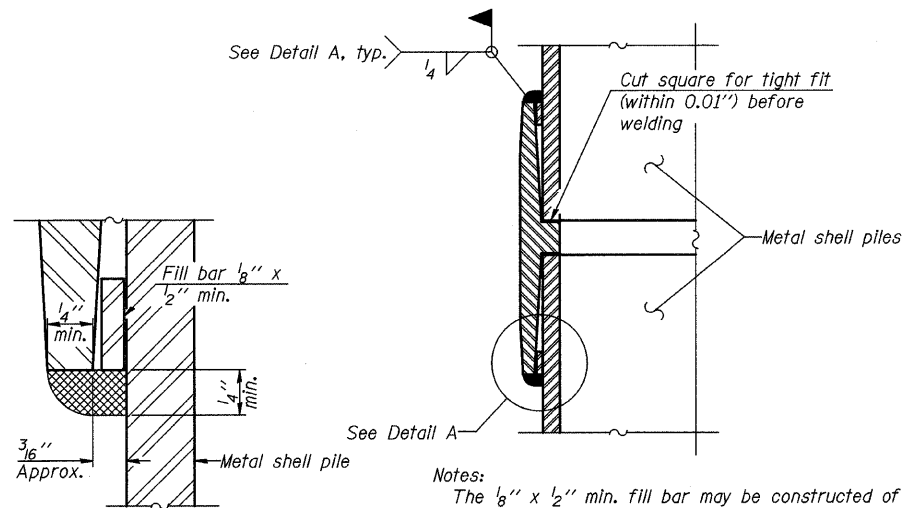
END PLATE ATTACHMENT



METAL SHELL PILE SHOE ATTACHMENT

(See Note A)

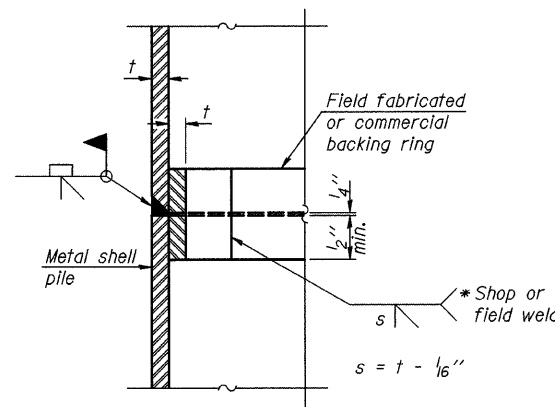
Note A:
When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over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



DETAIL A

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

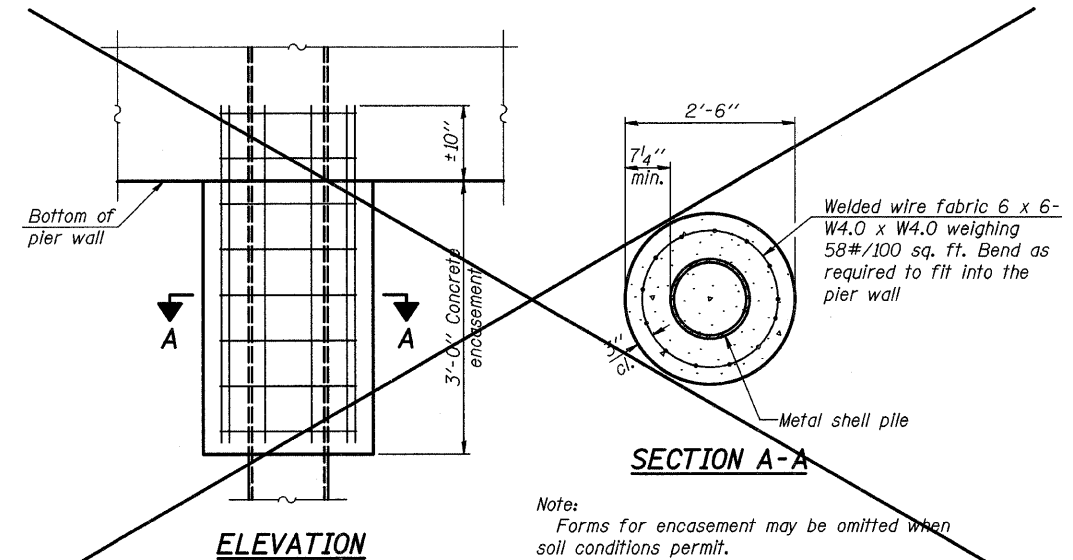
WELDED COMMERCIAL SPLICE



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.

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

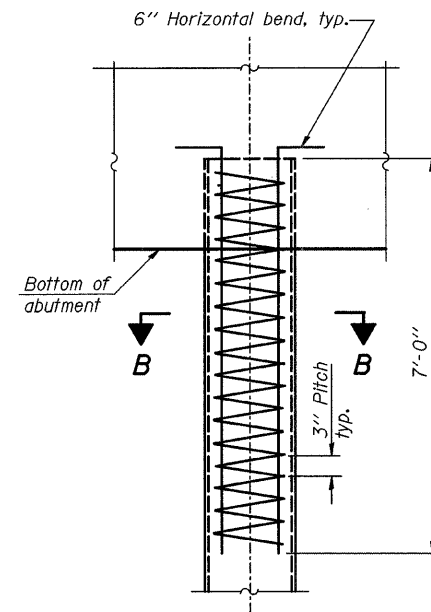


ELEVATION

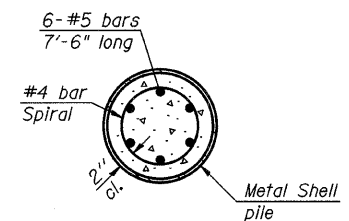
SECTION A-A

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

CONCRETE ENCASEMENT AT PIERS



ELEVATION



SECTION B-B

METAL SHELL REINFORCEMENT AT ABUTMENTS

CH 20 OVER TRIBUTARY TO STEVENS CREEK

METAL SHELL PILE DETAILS

REVISIONS	CH 20	SECTION 03-00184-00-BR	DRAWN BY DATE
1		SN 058-3370	R KING 6/09
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	21

Sheet No. 1 of 8 Sheets

*03-00184-00-BR

Bench Mark:
4901-2 RR spike in power pole on N side of CH 20 approx 120' east of Rife Bridge Elev 657.59
4901-3 RR spike in power pole on N side of CH 20 approx 600' west of Rife Bridge Elev 658.03

Existing Structure:
Single span precast deck beams on timber pile bent closed abutments.
Road to be closed during construction.

RIFE BRIDGE OVER STEVENS CREEK
BUILT 20 BY
MACON COUNTY
SECTION 03-00184-00-BR
STA 30+55.00
STR. NO. 058-3371 LOADING HL93

LOADING HL93
Allow 50 lb/sq. ft. for future wearing surface.

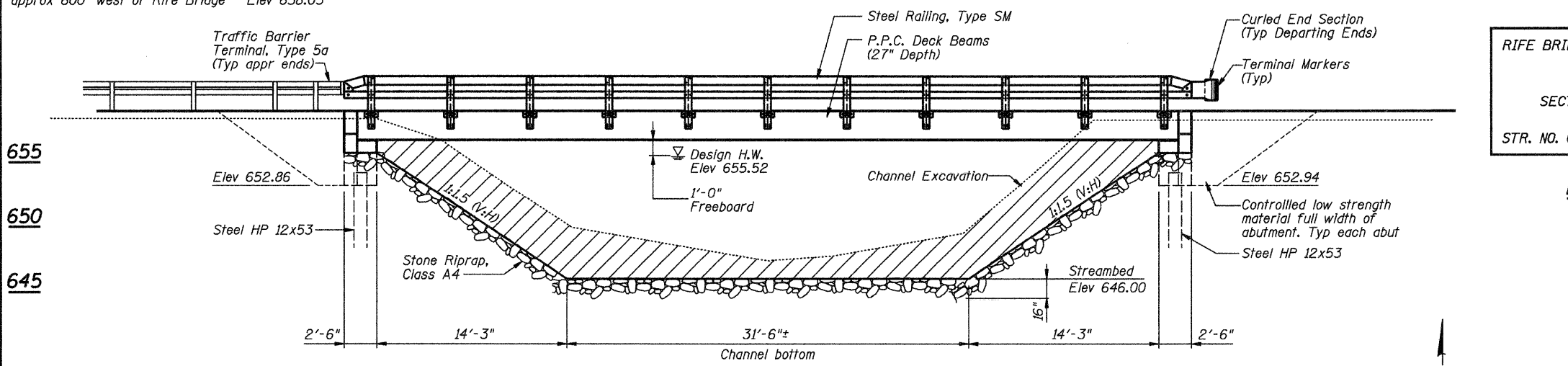
DESIGN SPECIFICATIONS
2007 LRFD Bridge Design Specifications with 2008 Interims

DESIGN STRESSES

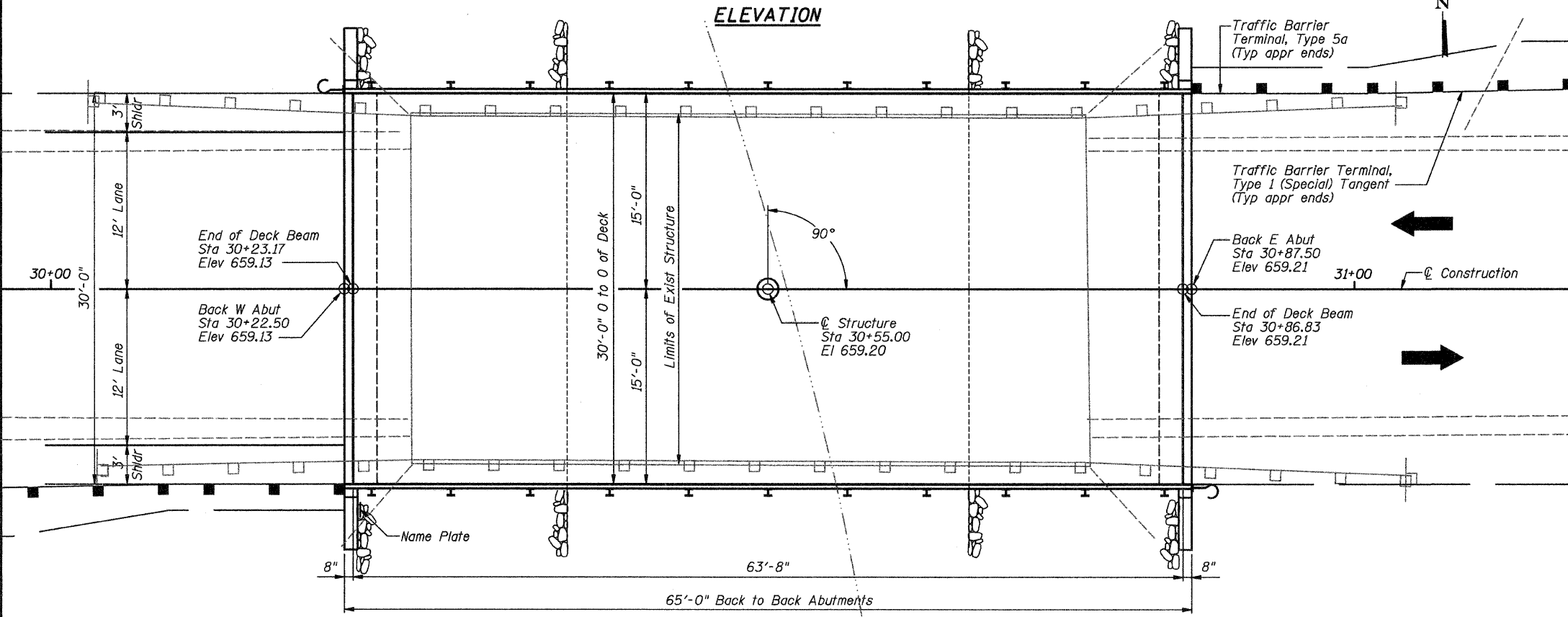
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (reinforcement)

PRECAST PRESTRESSED UNITS
f'c = 6,000 psi
f'ci = 5,000 psi
f's = 270,000 psi (1/2" φ low relaxation strands)
f'si = 202,000 psi (1/2" φ low relaxation strands)

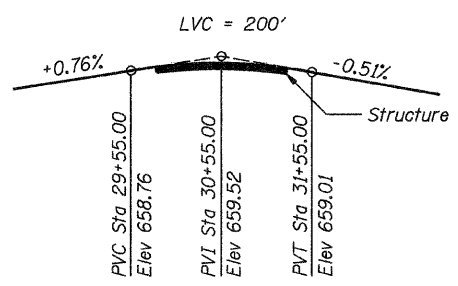
SEISMIC DATA
Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.15 g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.26 g
Soil Site Class = D



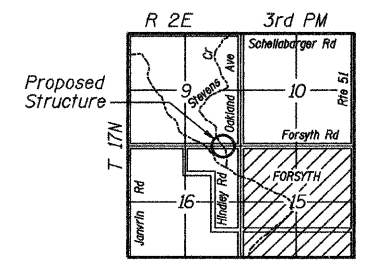
NAME PLATE
See Std. 515001



PLAN



CONSTRUCTION PROFILE



LOCATION SKETCH

STEVENS CREEK WATERWAY INFORMATION

Drainage Area = 30.29 sq mi Low Grade Elev. 657.04 @ Sta. 26+50

Flood	Freq. Yr.	C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	30	3061	312	485	655.52	1.72	1.40	657.24	656.92
Base	42	3061	312	-	655.52	1.72	-	657.24	-
Overtopping	56	4000	312	497	656.09	1.66	1.50	657.75	657.59
Max. Calc.	100	4545	-	497	656.38	-	1.86	-	658.24

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Abut. No. 1	Abut. No. 2
	649.86	649.94



DATE: 11/02/09
EXP: 11/30/10

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 THE REQUIREMENTS OF THE CURRENT "AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES."

CH 20 OVER STEVENS CREEK

GENERAL PLAN AND ELEVATION

REVISIONS		CH 20	SECTION 03-00184-00-BR	DRN BY DATE
No.	DATE	INITIALS	SN 058-3371	R KING 6/09
1			MACON	CHECKED BY DATE
2			COUNTY	JMB 6/09
3				BOOK NUMBER
4				
5				PROJECT NO.
6				4901
7				SHEET NO.
8				
9				
10				

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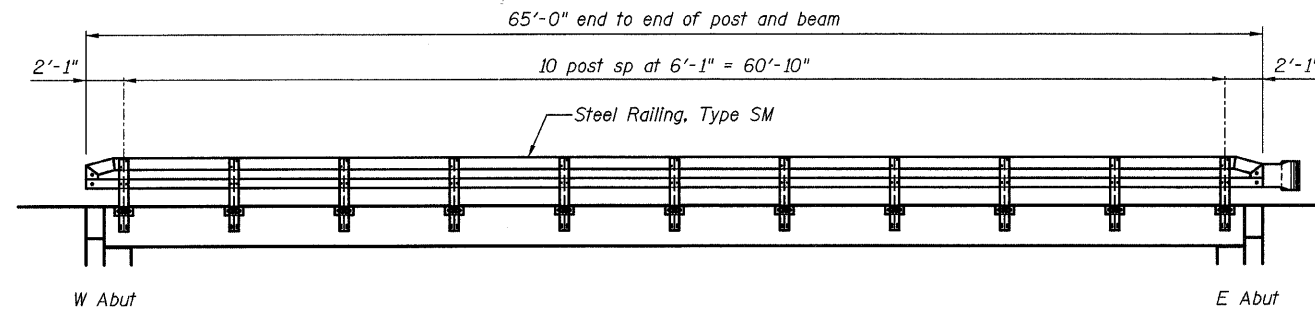
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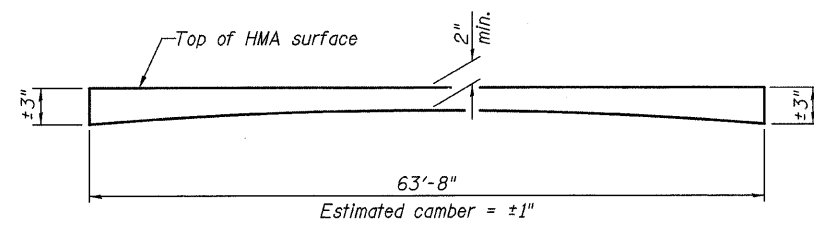
Sheet No. 2
of 8 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	22
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT	

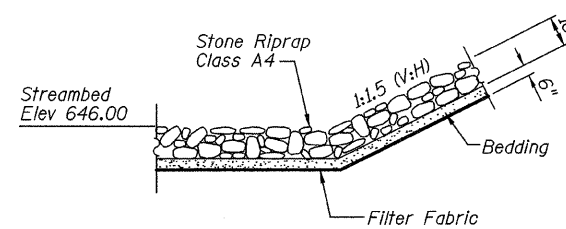
*03-00184-00-BR



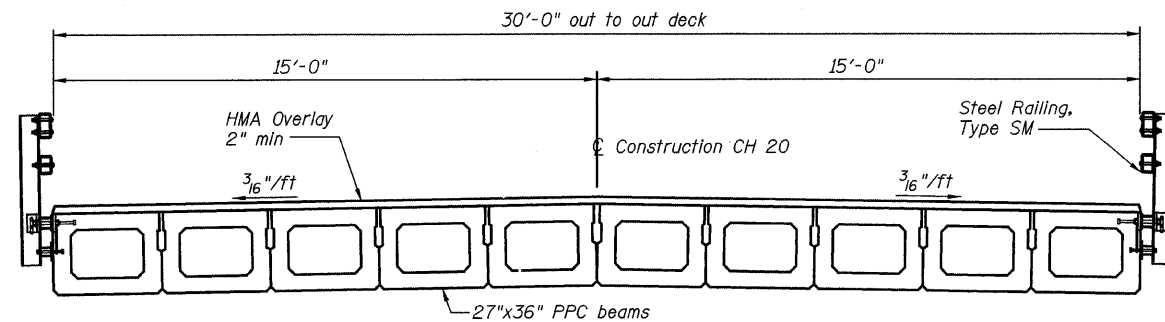
ELEVATION



HMA WEARING SURFACE PROFILE



STONE RIPRAP DETAIL



PROPOSED CROSS SECTION

TOTAL BILL OF MATERIAL

Item	Unit	Quantity
Removal of Existing Structures	Each	1
Channel Excavation	Cu Yd	287
Structure Excavation	Cu Yd	104
Stone Riprap, Class A4	Sq Yd	522
Filter Fabric	Sq Yd	522
Concrete Structures	Cu Yd	28.6
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq Ft	1910
Reinforcement Bars, Epoxy Coated	Pound	2560
Steel Railing, Type SM	Lin Ft	130
Furnishing Steel Piles HP12x53	Foot	486
Driving Piles	Foot	486
Test Pile Steel HP 12x53	Each	1
Name Plates	Each	1
Controlled Low Strength Material	Cu Yd	48
Waterproofing Membrane System	Sq Yd	212
Concrete Encasement	Cu Yd	3.6
Terminal Markers Direct Applied	Each	4
Hot Mix Asphalt Surface Course, Mix "C" N50	Ton	30

GENERAL NOTES:

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.

All Construction joints shall be bonded.

See Roadway Plans for channel excavation limits and quantities.

See Roadway Plans for additional riprap limits and quantities.

Reinforcement bars designated (E) shall be epoxy coated.

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

The Steel H piles shall be according to AASHTO M270, Grade 50.

CH 20 OVER STEVENS CREEK

DETAILS AND BILL OF MATERIAL

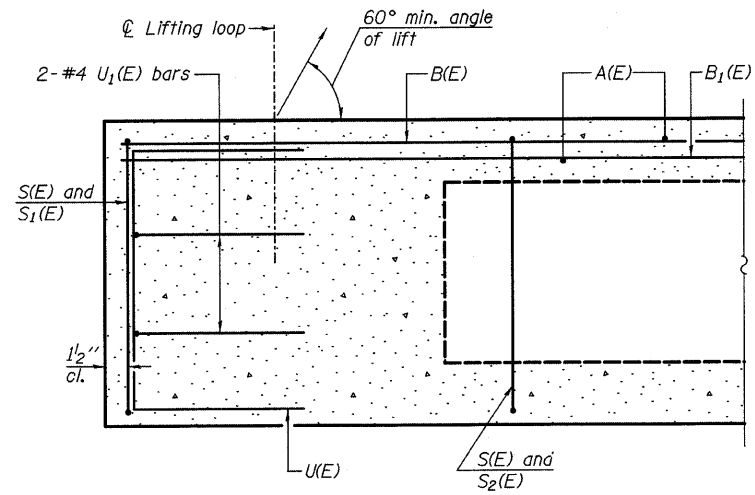
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No.	DATE	INITIALS	SN 058-3371	R KING 6/09
1			MACON	COUNTY
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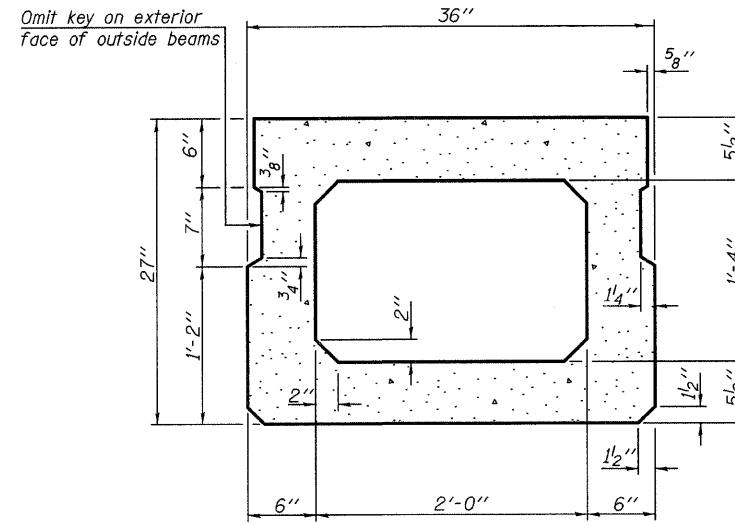
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	23
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

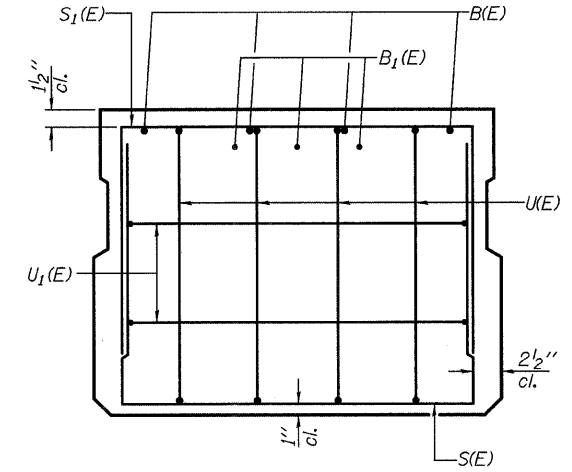
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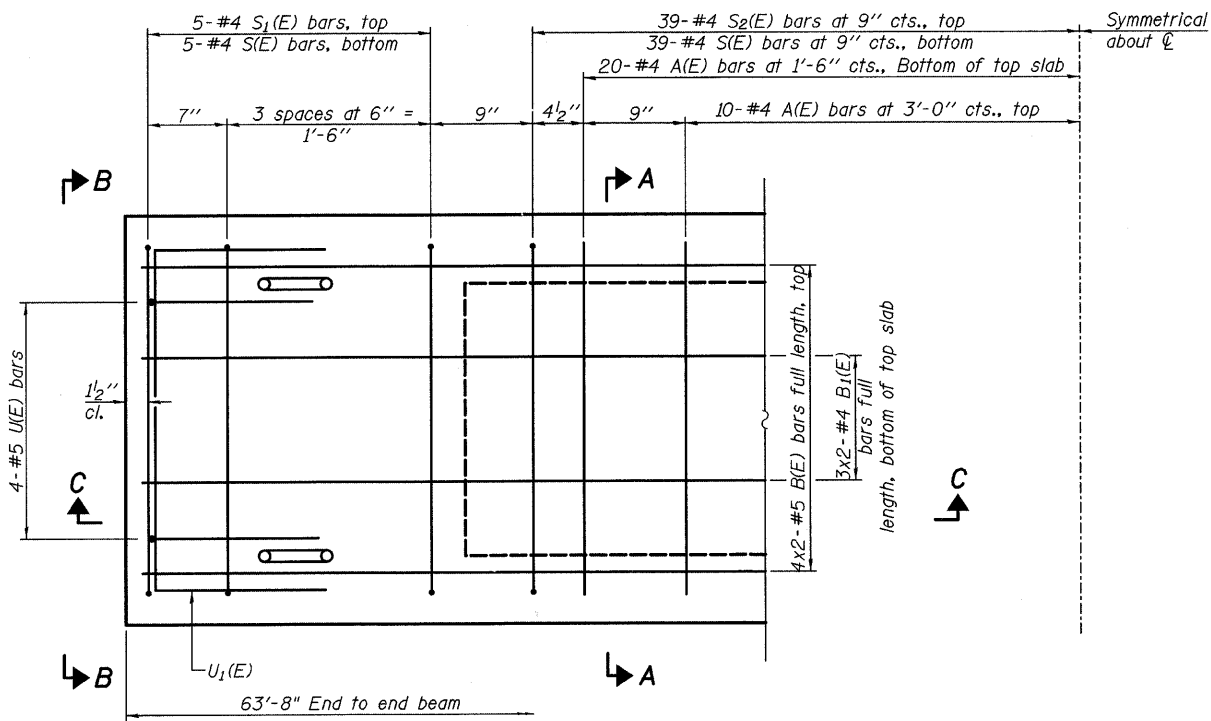
SECTION C-C



SECTION A-A
(Showing dimensions)

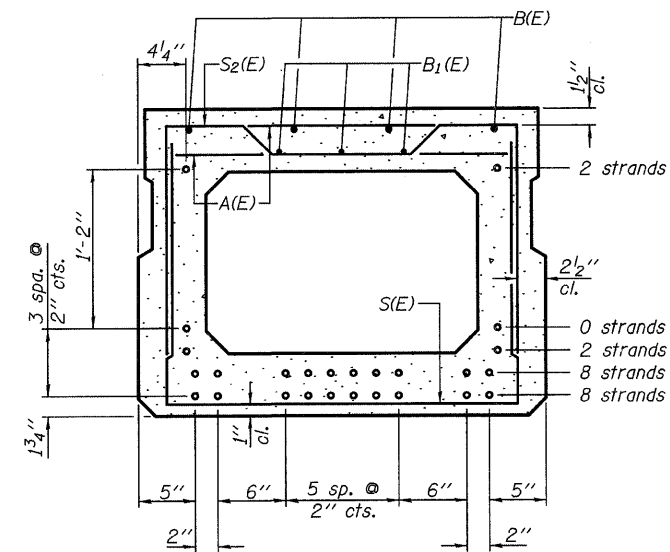


VIEW B-B



PLAN VIEW

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



SECTION A-A

(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)	59	#4	2'-7"	—
B(E)	8	#5	32'-10"	—
B ₁ (E)	6	#4	32'-7"	—
S(E)	88	#4	6'-5"	⌌
S ₁ (E)	10	#4	5'-11"	⌌
S ₂ (E)	78	#4	6'-2"	⌌
U(E)	8	#5	4'-6"	⌌
U ₁ (E)	4	#4	5'-0"	⌌

Note: See sheet 4 of 8 for additional details and Bill of Material.

The top surface of the beams shall be finished according to Article 504.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of 1/4".

CH 20 OVER STEVENS CREEK

27" X 36" PPC DECK BEAM DETAILS

REVISIONS		CH 20	SECTION 03-00184-00-BR	DRAWN BY DATE
1	DATE INITIALS	SN 058-3371		R KING 6/09
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3				JMB 6/09
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6				PROJECT NO.
7				4901
8				SHEET NO.
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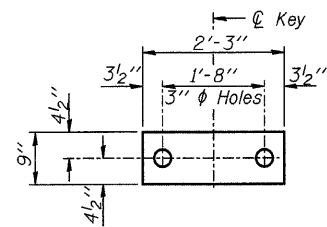
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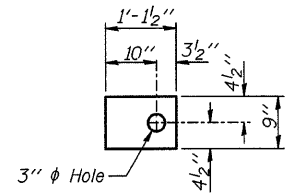
Sheet No. 4
of 8 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	24
FED. ROAD DIST. NO. 7		ELLINGR	PROJECT	

*03-00184-00-BR



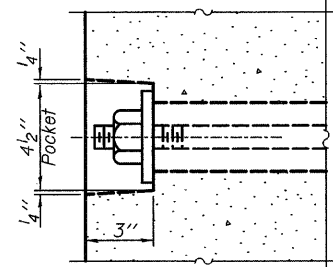
FABRIC BEARING PAD
(Interior)



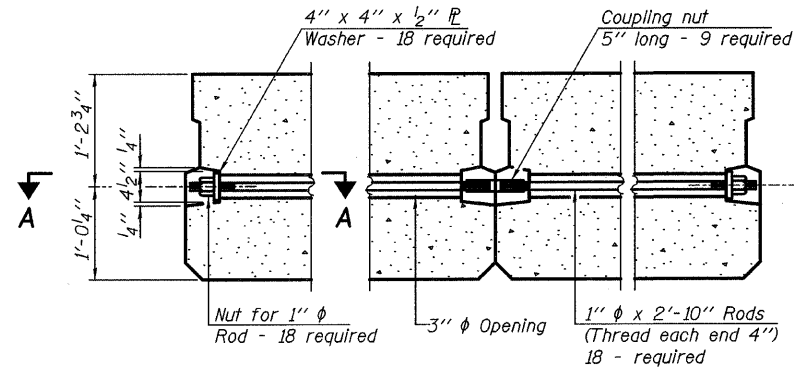
FABRIC BEARING PAD
(Exterior)

FIXED

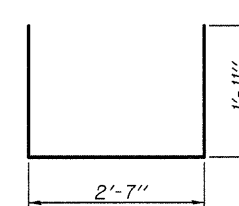
Note: Omit holes when using expansion bearings.



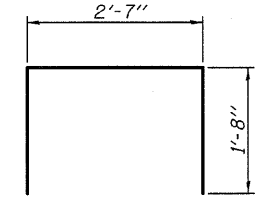
SECTION A-A



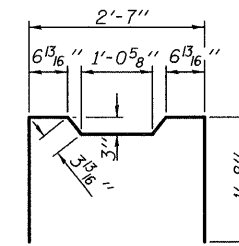
TYPICAL TRANSVERSE TIE ASSEMBLY



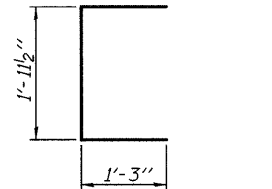
BAR S(E)



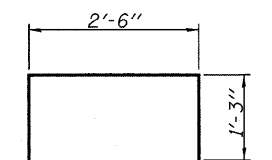
BAR S₁(E)



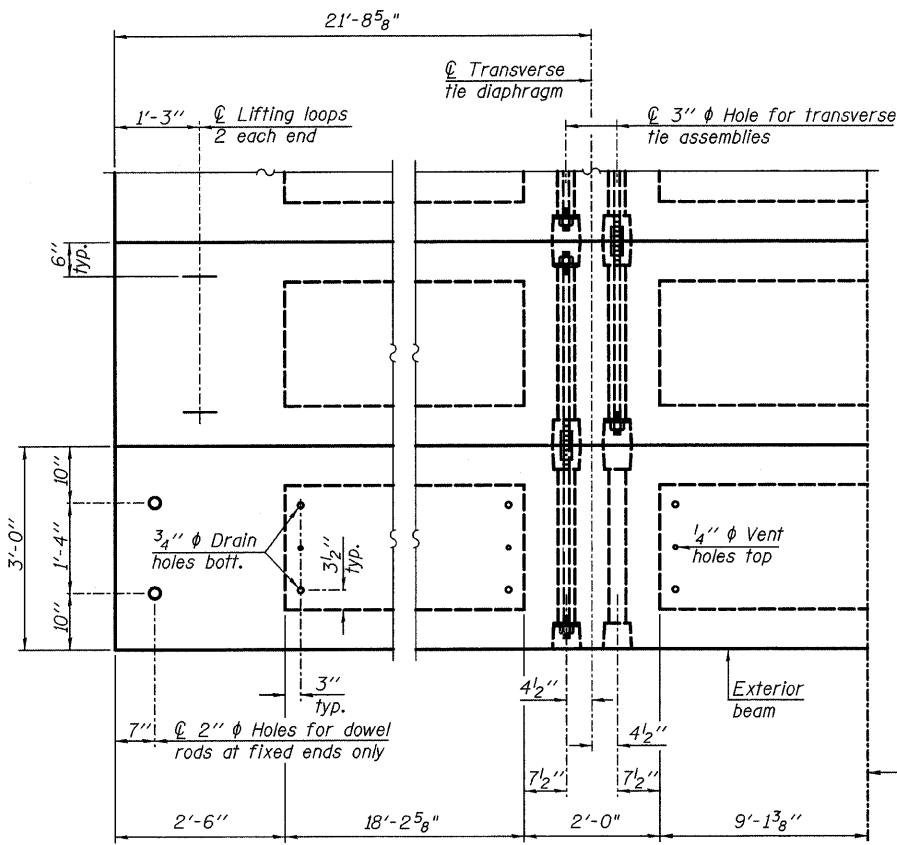
BAR S₂(E)



BAR U(E)

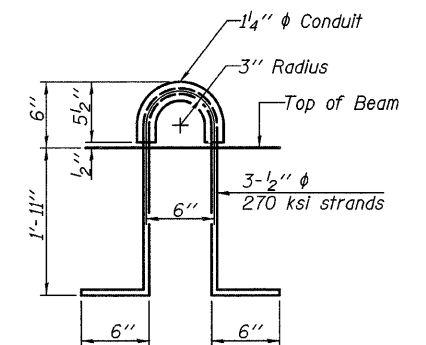


BAR U₁(E)



PLAN VIEW

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



LIFTING LOOP DETAIL

NOTES

- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
- Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).
- Two 3/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
- A minimum 2 1/2" lifting pin shall be used to engage the lifting loops during handling.
- Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
- Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
- Compressive strength of prestressed concrete at release, f'cl, shall be 5000 psi.
- The top surface of the beams shall be finished according to Article 504.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of 1/4".

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	1910
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CH 20 OVER STEVENS CREEK

27" X 36" PPC DECK BEAM DETAILS

REVISIONS	CH 20	SECTION 03-00184-00-BR	DRAWN BY DATE R KING 6/09
1		SN 058-3371	CHECKED BY DATE JMB 6/09
2		MACON	BOOK NUMBER
3		COUNTY	PROJECT NO. 4901
4			SHEET NO.
5			
6			
7			
8			
9			
10			

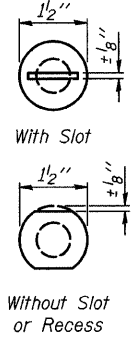
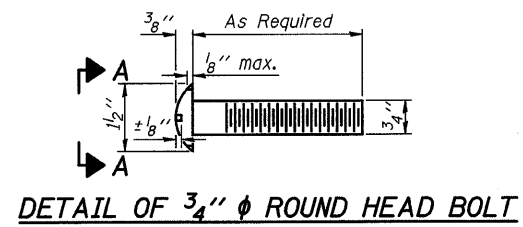
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CONSULTING ENGINEERS
154-001977

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(817) 432-8544 (773) 714-0050

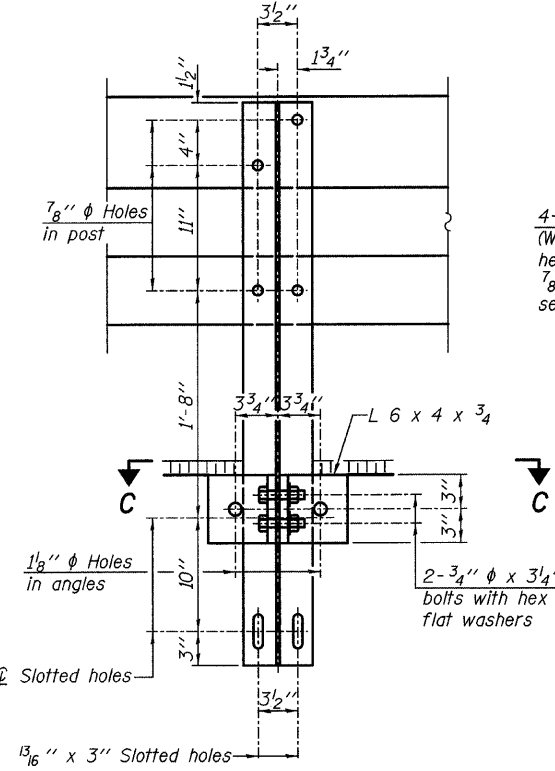
ROCKFORD
(815) 489-0050

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	25
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT	

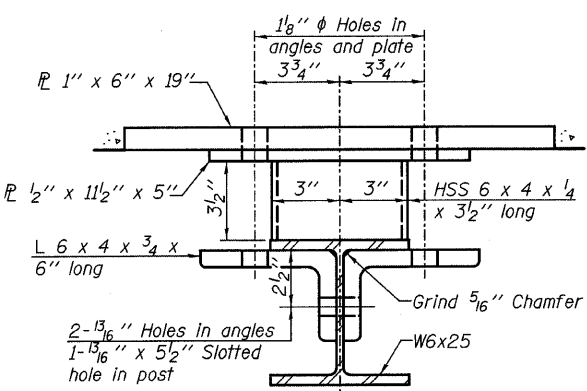
*03-00184-00-BR



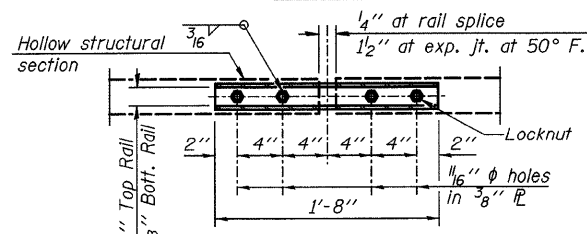
VIEW A-A
4-3/4" ϕ x 6" Round Head Bolts (With slot or approved recess in head) with locknut & flat washer. 7/8" ϕ holes in hollow structural section may be drilled in the field.



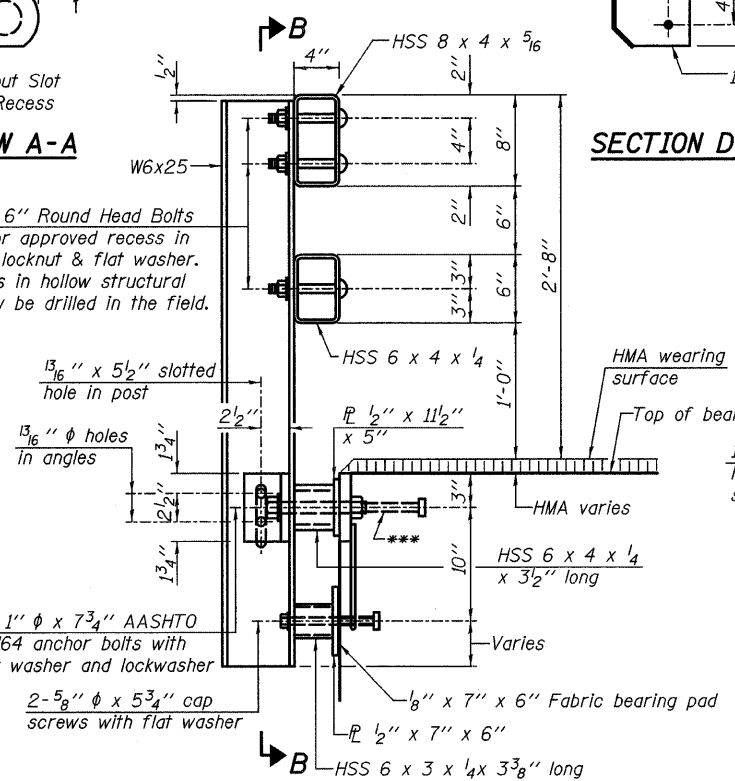
SECTION B-B



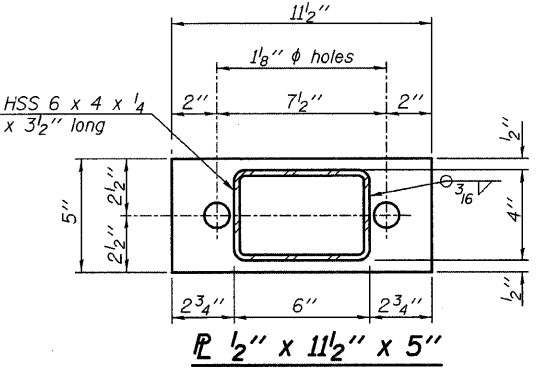
SECTION C-C



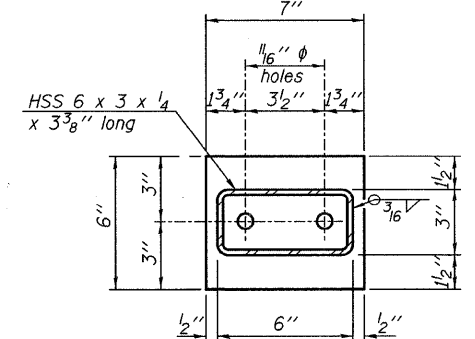
PLAN-BOTT. SPLICE P TYPICAL



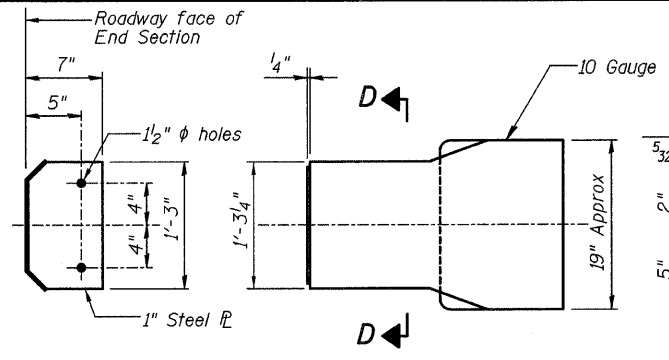
SECTION AT RAIL POST



SECTION AT RAIL POST

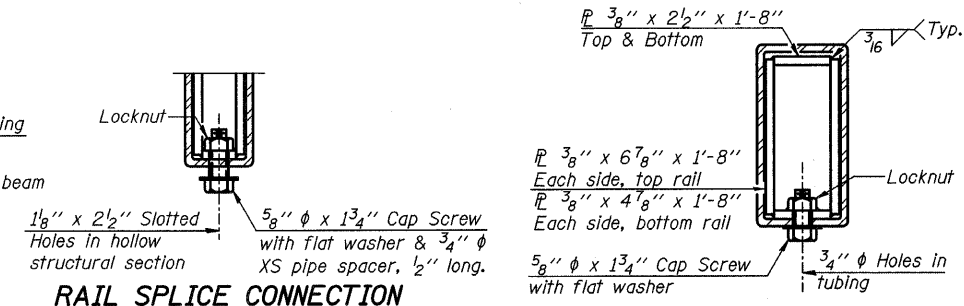


SECTION AT RAIL POST

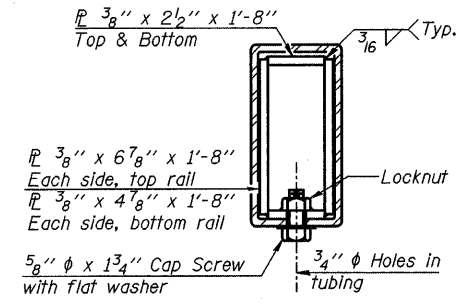


SECTION D-D

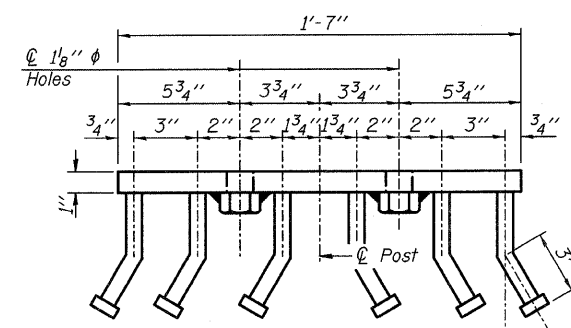
DETAILS OF CURLED END SECTION
(Cost included with Steel Railing, Type SM)



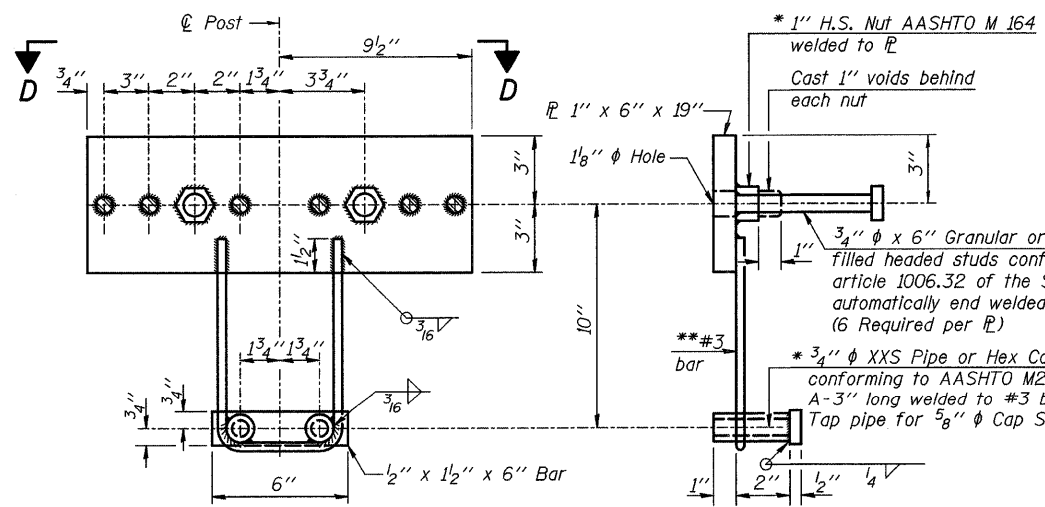
RAIL SPLICE CONNECTION AT EXPANSION JT.



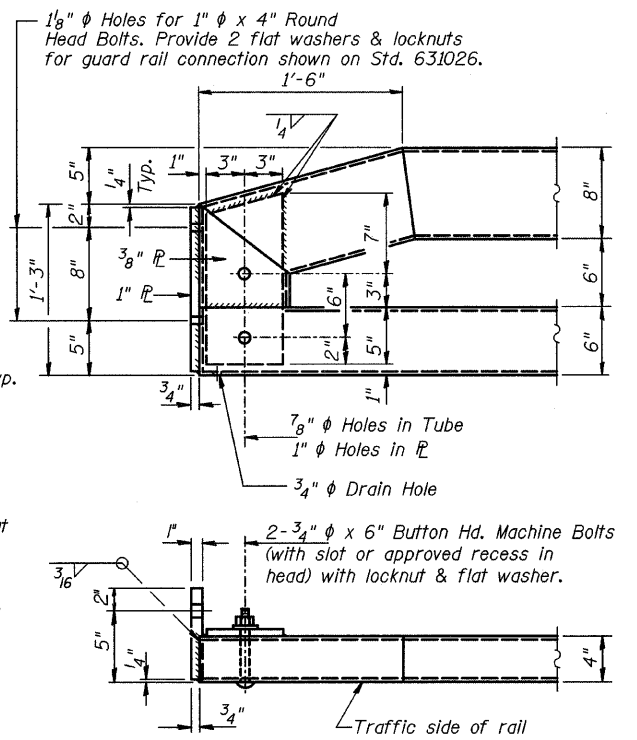
SECTION AT RAIL SPLICE



VIEW D-D



ANCHOR DEVICE



END OF RAIL DETAILS

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.
** 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".

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	130

CH 20 OVER STEVENS CREEK

STEEL RAILING, TYPE SM WITH HMA WEARING SURFACE

REVISIONS	CH 20	SECTION 03-00184-00-BR	DRAWN BY DATE
1		SN 058-3371	R KING 6/09
2			CHECKED BY DATE
3			JMB 6/09
4			BOOK NUMBER
5			
6			PROJECT NO.
7			4901
8			SHEET NO.
9			
10			

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184-00197

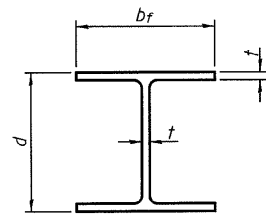
DECATUR CHICAGO
317-422-8544 773-714-0050

ROCKFORD
(815) 489-0050

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

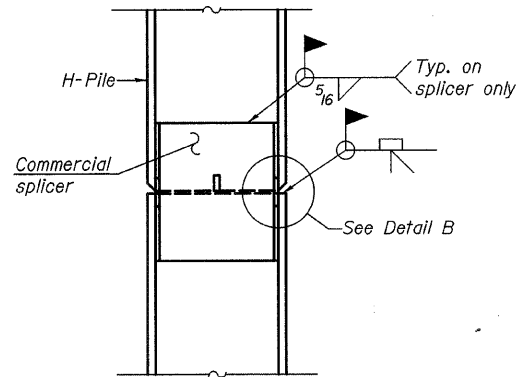
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	27
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT	

*03-00184-00-BR

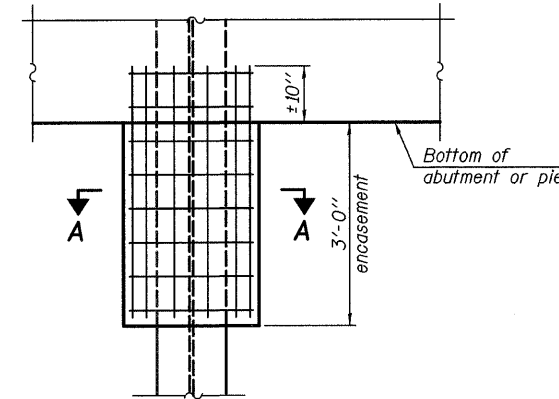


STEEL PILE TABLE

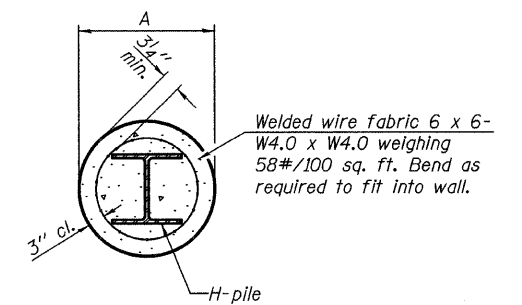
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 8/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11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



ELEVATION



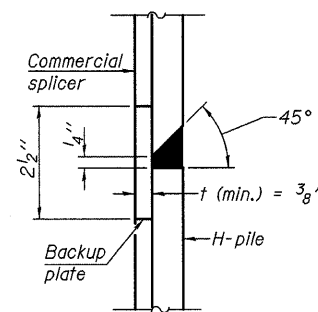
ELEVATION



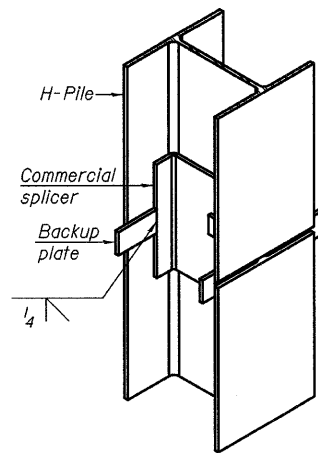
SECTION A-A

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

PILE ENCASEMENT

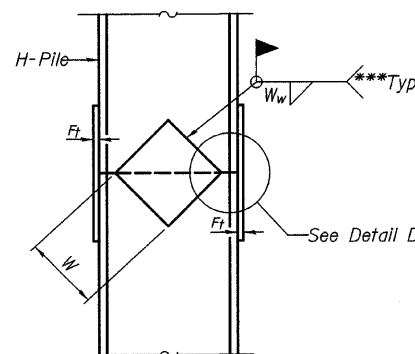


DETAIL "B"

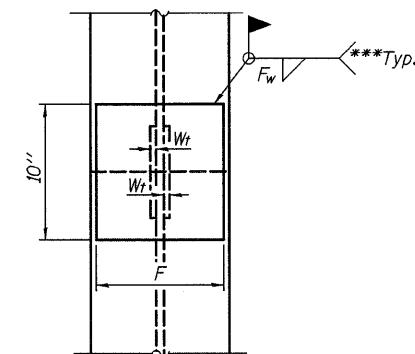


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE

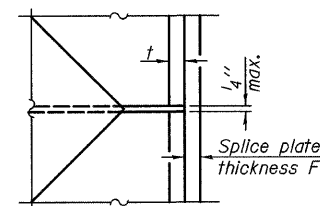


ELEVATION



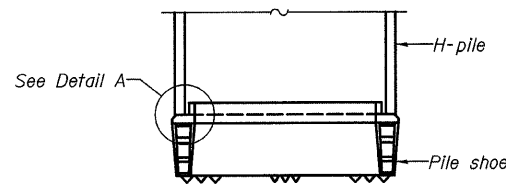
END VIEW

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

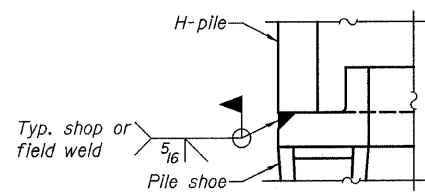


DETAIL D

WELDED PLATE FIELD SPLICE

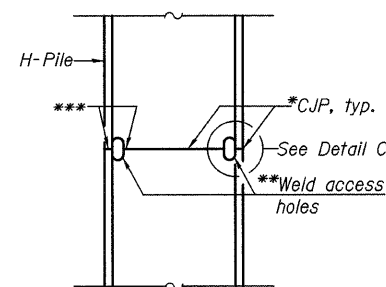


ELEVATION

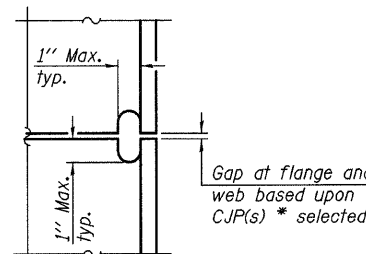


DETAIL A

H-PILE SHOE ATTACHMENT



ELEVATION



DETAIL C

COMPLETE PENETRATION WELD SPLICE

- * Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code - Steel.
- ** Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code - Steel.
- *** Interrupt welds 1/4" from end of each pile.

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

CH 20 OVER STEVENS CREEK

STEEL HP PILE DETAILS

REVISIONS	CH 20	SECTION 03-00184-00-BR	DRAWN BY DATE
1		SN 058-3371	R KING 6/09
2		MACON	COUNTY
3			CHECKED BY DATE
4			JMB 6/09
5			BOOK NUMBER
6			
7			
8			
9			
10			

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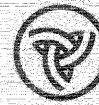
ROCKFORD
(815) 489-0660

PROJECT No.
4901

SHEET No.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	28
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT	

*03-00184-00-BR



Illinois Department of Transportation
Division of Highways
IDOT - Dist 6

SOIL BORING LOG

Page 1 of 2

Date 12/15/04

ROUTE Co. Hwy. 20 DESCRIPTION Co. Hwy. 20 Over West Fork of Stevens Creek LOGGED BY CNA

SECTION 03-01184-00-BR LOCATION SE. SEC. 9, TWP. 17N, RNG. 2E, 3rd PM

COUNTY Macon DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 058-3188 Station 10+00	DEPTWHS	BLCS	UITS	MOST	Surface Water Elev. 93.9 ft Stream Bed Elev. 91.7 ft	DEPTWHS	BLCS	UITS	MOST
BORING NO. 1 East Abut. Station 10+39 Offset 8.0 ft RL Ground Surface Elev. 100.0 ft	H S Qu T				Groundwater Elev.: First Encounter 89.0 ft Upon Completion After Hrs.	H S Qu T			

Soil Description	Depth (ft)	Blow Count (ft)	Blow Count (6")	Blow Count (tsf)	Blow Count (%)	Soil Description	Depth (ft)	Blow Count (ft)	Blow Count (6")	Blow Count (tsf)	Blow Count (%)
Pavement	100.0					Gray Clay Loam Till (continued)					
Black Mottled Silty Clay Loam (Backfill)	98.0										
		1									
		2							5		11
		2							15		
		2							15		
		0									
		2									
		3									
		1							3		
		1							6	2.9	13
		2							7	B	
		2							7		
Gray Fine Sand to Silt	89.0										
		0									
		1									
		2									
Gray Clay Loam Till	87.0										
		2							3		
		3	2.0	12					5		
		4	S			(No Sample Obtained)			8		
		2							3		
		7	3.6	11					6	3.4	12
		7	S						10	B	
		20							40		

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
IDOT - Dist 6

SOIL BORING LOG

Page 2 of 2

Date 2/23/05

ROUTE CO HWY 20 DESCRIPTION Co. Hwy. 20 Over East Fork of Stevens Creek LOGGED BY CNA

SECTION 03-01184-00-BR LOCATION SE. SEC. 9, TWP. 17N, RNG. 2E, 3rd PM

COUNTY Macon DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 058-3189 Station 10+00	DEPTWHS	BLCS	UITS	MOST	Surface Water Elev. 92.5 ft Stream Bed Elev. 90.2 ft	DEPTWHS	BLCS	UITS	MOST
BORING NO. 1 East Abut. Station 10+43 Offset 9.0 ft RL Ground Surface Elev. 100.0 ft	H S Qu T				Groundwater Elev.: First Encounter 90.0 ft Upon Completion After Hrs.	H S Qu T			

Soil Description	Depth (ft)	Blow Count (ft)	Blow Count (6")	Blow Count (tsf)	Blow Count (%)	Soil Description	Depth (ft)	Blow Count (ft)	Blow Count (6")	Blow Count (tsf)	Blow Count (%)
Dark Gray to Brown Mottled Organic Silt to Fine Peat (continued)						Gray Clay Loam Till to Sandy Clay Loam Till (continued)					
Dark Gray to Blue Gray Clay Loam Till	58.0										
		0							5		
		2	1.4	21					7	2.6	12
		4	B						9	B	
		4							35.0		
		0				End of Boring					
		2									
		3									
Green/Gray Sandy Clay Loam Till	53.0										
		3									
		6	2.8	14							
		9	S						70		
		9									
		4									
		7	5.0	13							
		7	B						75		
		4									
		3									
		5	1.7	12							
		7	B								
		10									
		10									
Gray Clay Loam Till to Sandy Clay Loam Till	43.0										
		3									
		5									
		7									
		10									

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

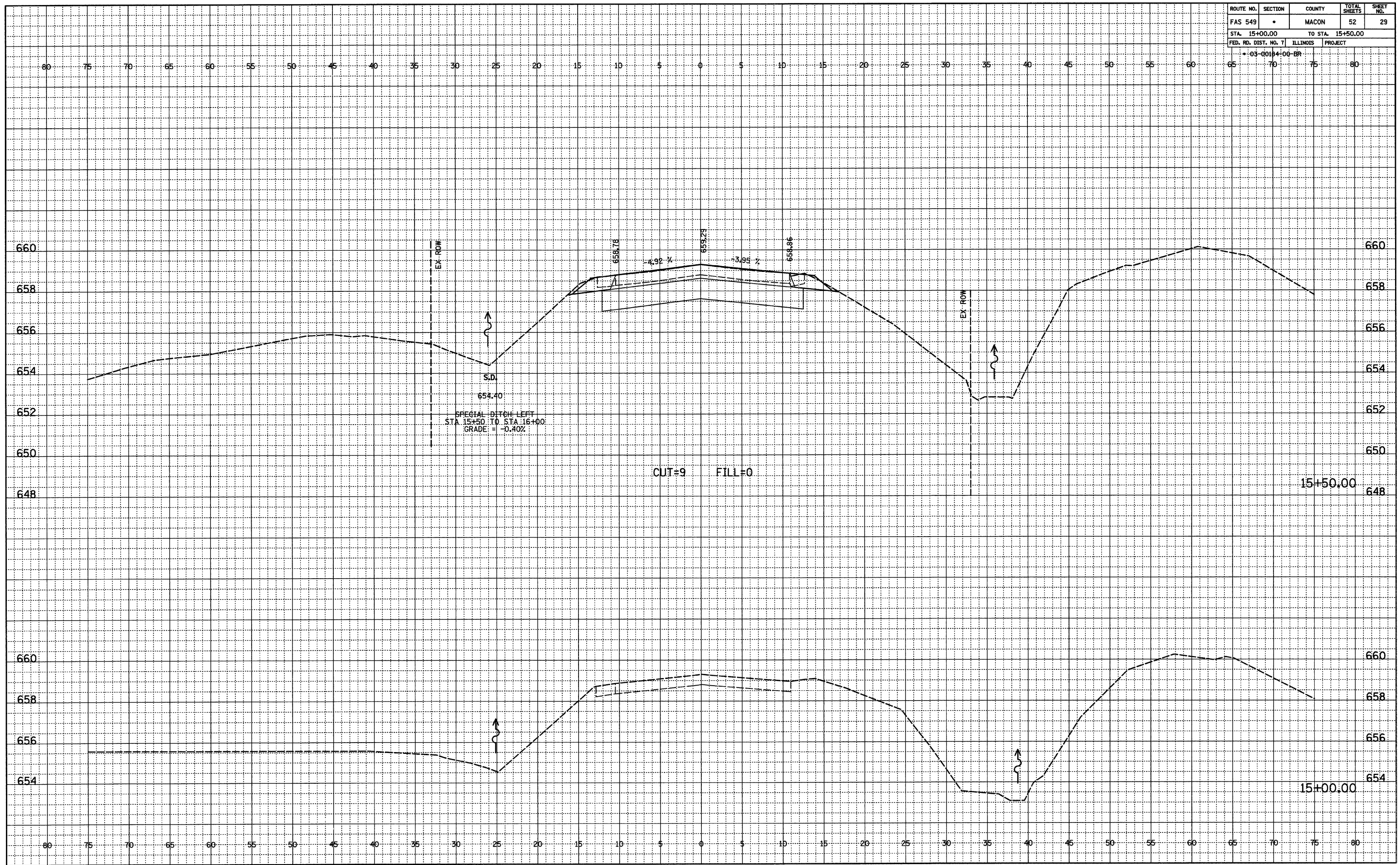
CH 20 OVER STEVENS CREEK

SOIL BORING LOGS

REVISIONS		CH 20	SECTION 03-00184-00-BR	DRAWN BY DATE
1			SN 058-3371	R KING 6/09
2				CHECKED BY DATE
3			MACON	JMB 6/09
4			COUNTY	BOOK NUMBER
5				
6				
7				
8				PROJECT NO.
9				4901
10				SHEET NO.

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ROCKFORD
(815) 469-0050

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	29
STA. 15+00.00		TO STA. 15+50.00		
FED. RD. DIST. NO. 7	ILLINOIS	PROJECT		
* 03-00184-00 BR				



15+50.00

15+00.00

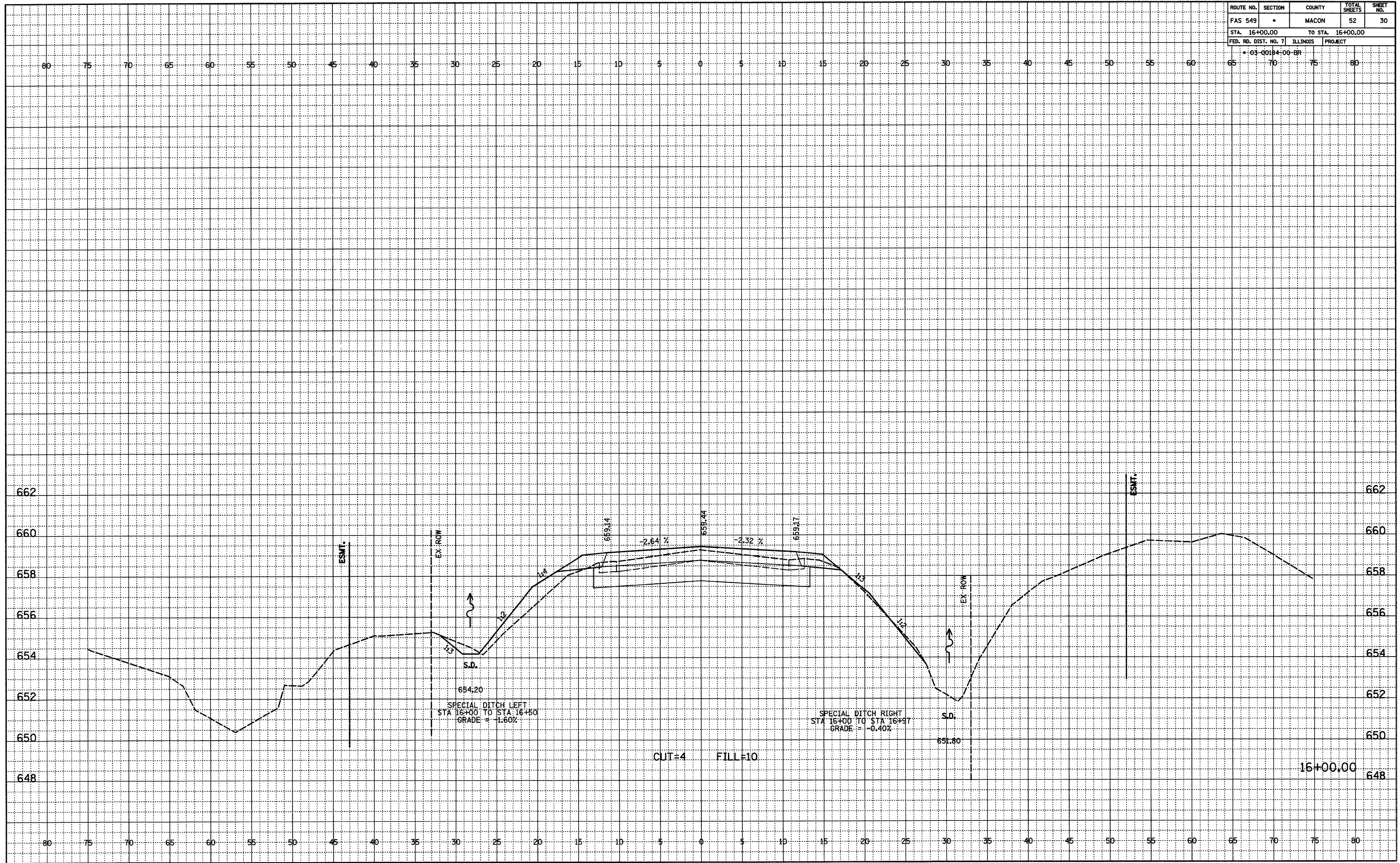
FINAL	DATE
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
NO.	

ORIGINAL	DATE
SURVEYED	
PLOTTED	
FORMS CHECKED	
STRUCTURE NOTATIONS OK'D	
NO.	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	30
STA. 16+00.00		TO STA. 16+00.00		
FED. RD. DIST. NO. 7		ILLINOIS PROJECT		
* 03-00184-00 BR				

FINAL	SURVEYED	DATE
NOTEBOOK	PLOTTED	
NO.	ALIGNED	
	CHK'D	
	BY	
	DATE	

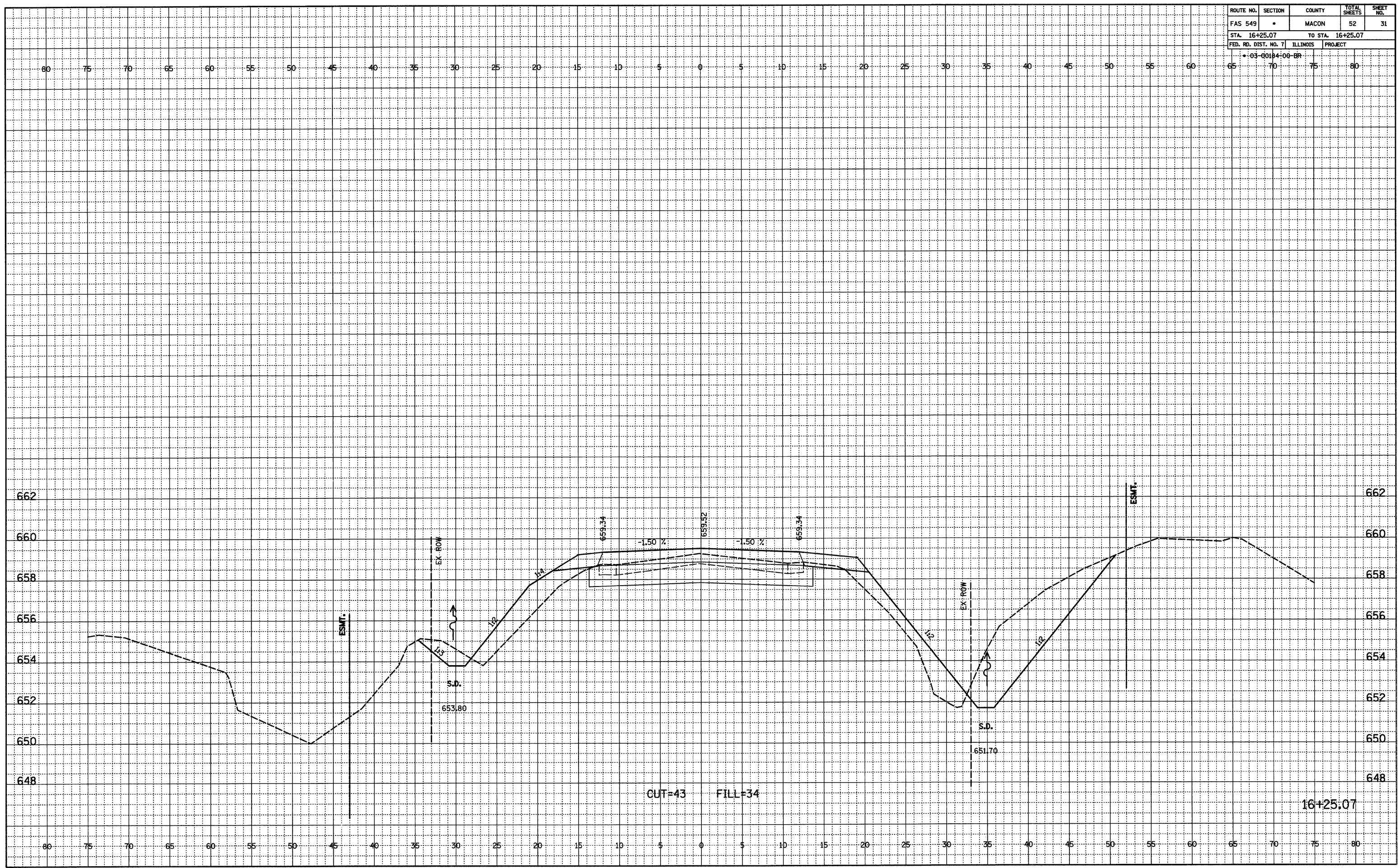
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NOTEBOOK	PLOTTED	
NO.	GRADES	
	CHECKED	
	BY	
	DATE	



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	31
STA. 16+25.07		TO STA. 16+25.07		
FED. RD. DIST. NO. 7	ILLINOIS	PROJECT		

FINAL	DATE
NOTED	
FLIPPED	
ALIGNMENT CHECKED	
BY	
NO.	

ORIGINAL	DATE
NOTED	
FLIPPED	
GRADES CHECKED	
BY	
NO.	

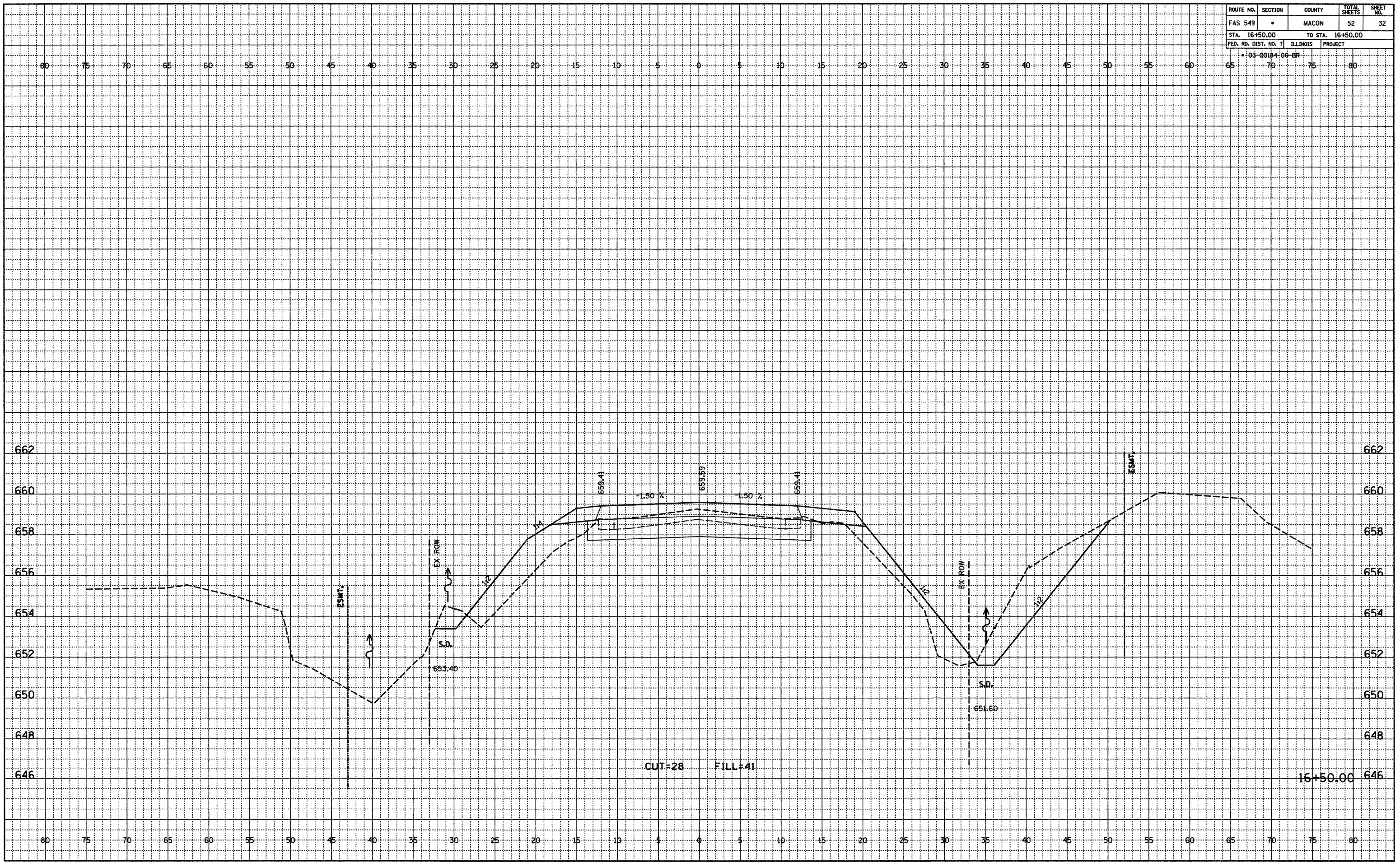


16+25.07

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	32
STA. 16+50.00		TO STA. 16+50.00		
FED. RD. DIST. NO. 7		ILLINOIS PROJECT		

DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY

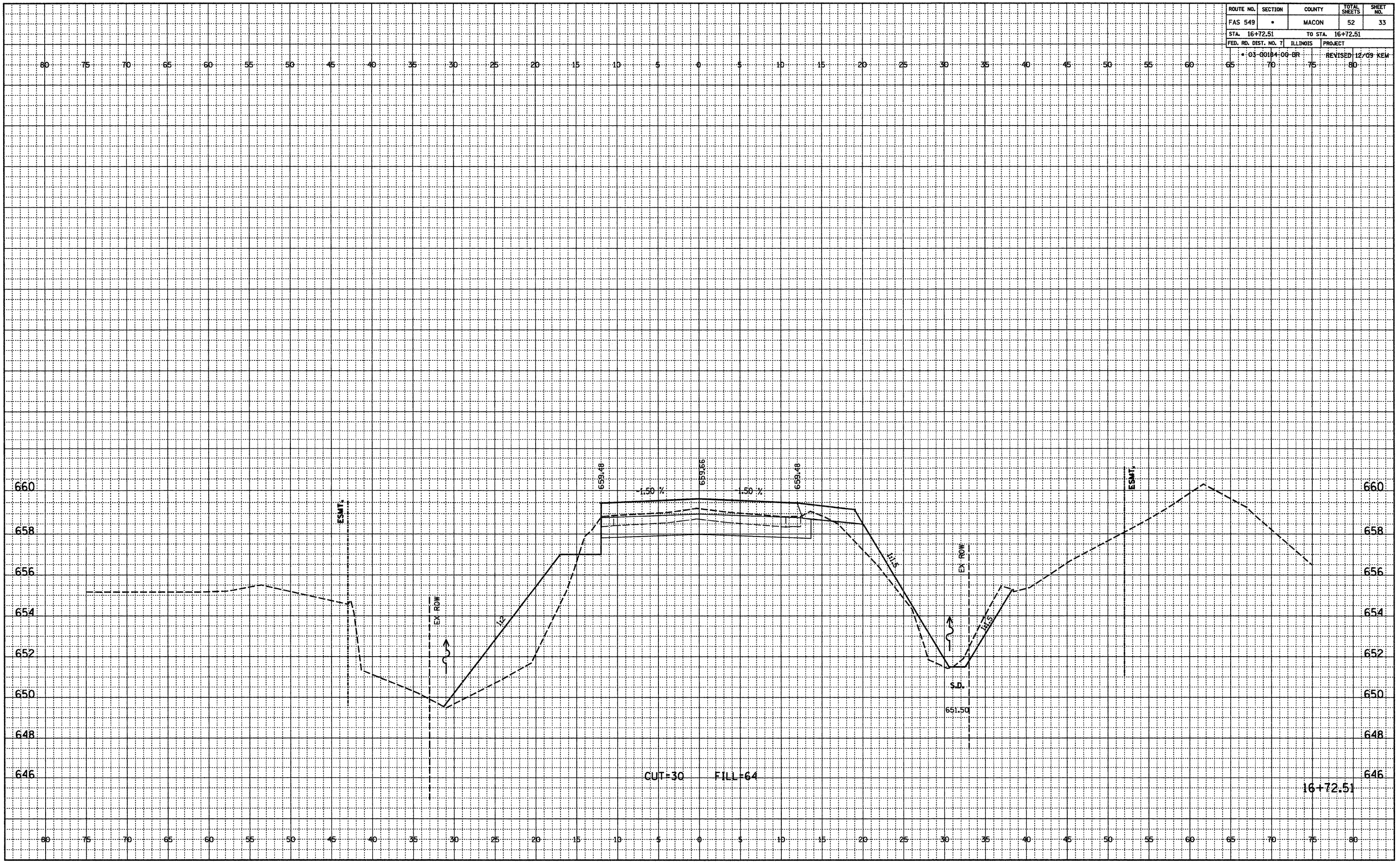


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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	33
STA. 16+72.51		TO STA. 16+72.51		
FED. RD. DIST. NO. 7		ILLINOIS	PROJECT	
* 03-00104-00 BR		REVISED: 12/09 KEM		

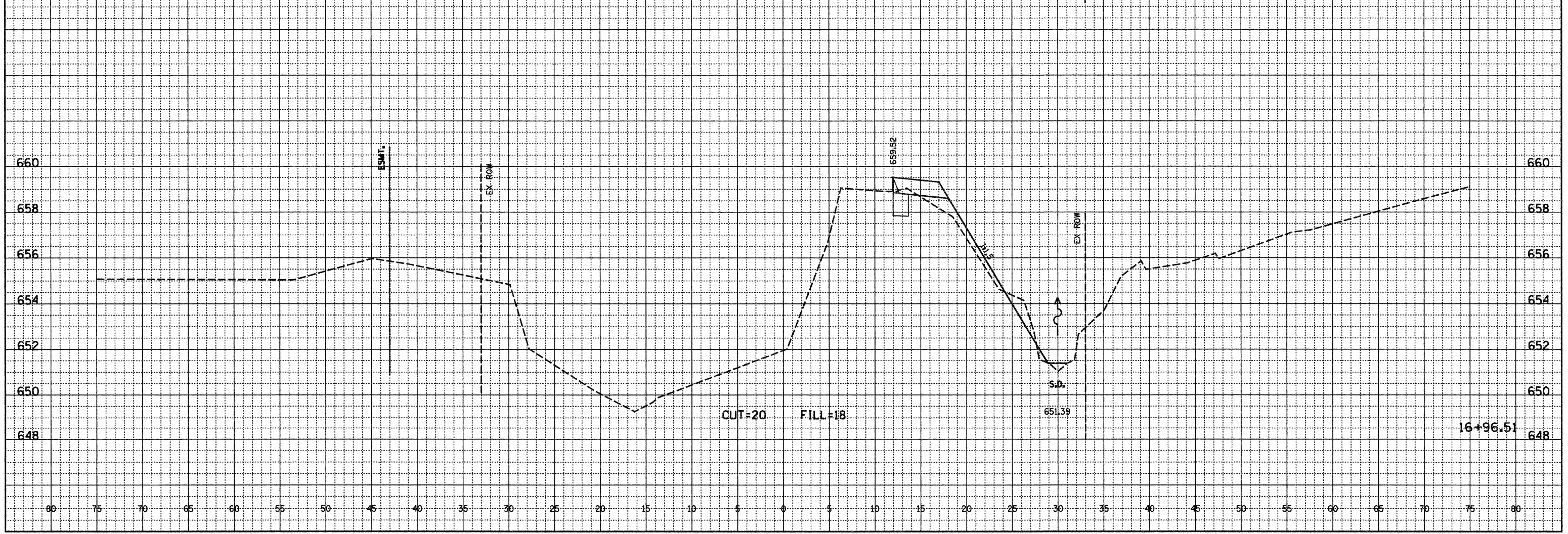
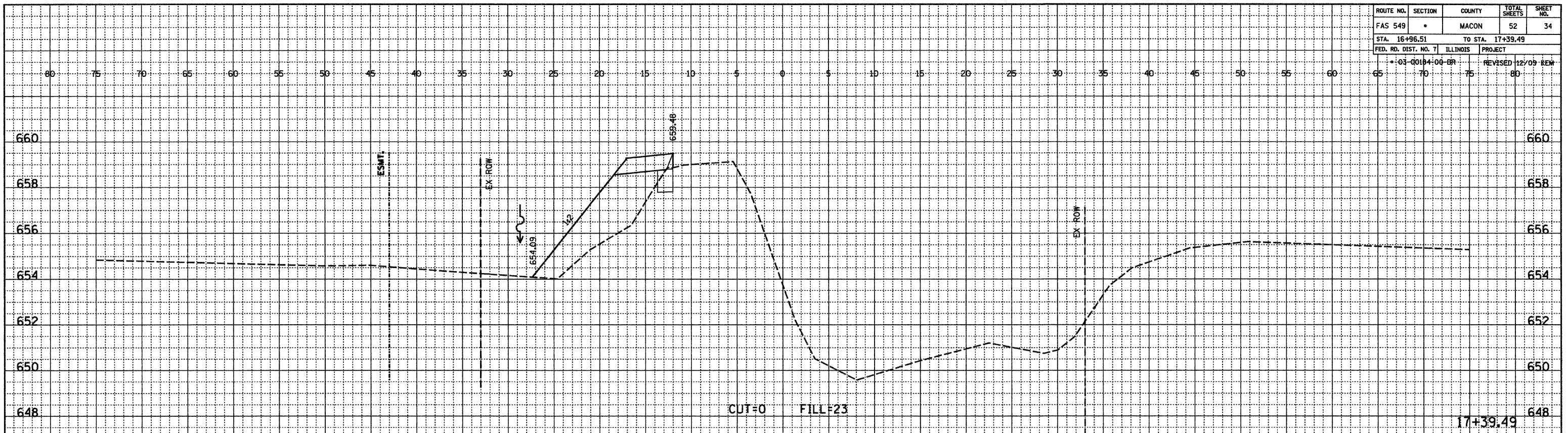
BY	DATE
FINAL SURVEYED	
PLOTTED	
CHECKED	
BY	
NO. OF WAYS CHECKED	
NO.	

BY	DATE
ORIGINAL SURVEYED	
PLOTTED	
CHECKED	
BY	
STRUCTURE NOTATIONS CHD	
NO.	



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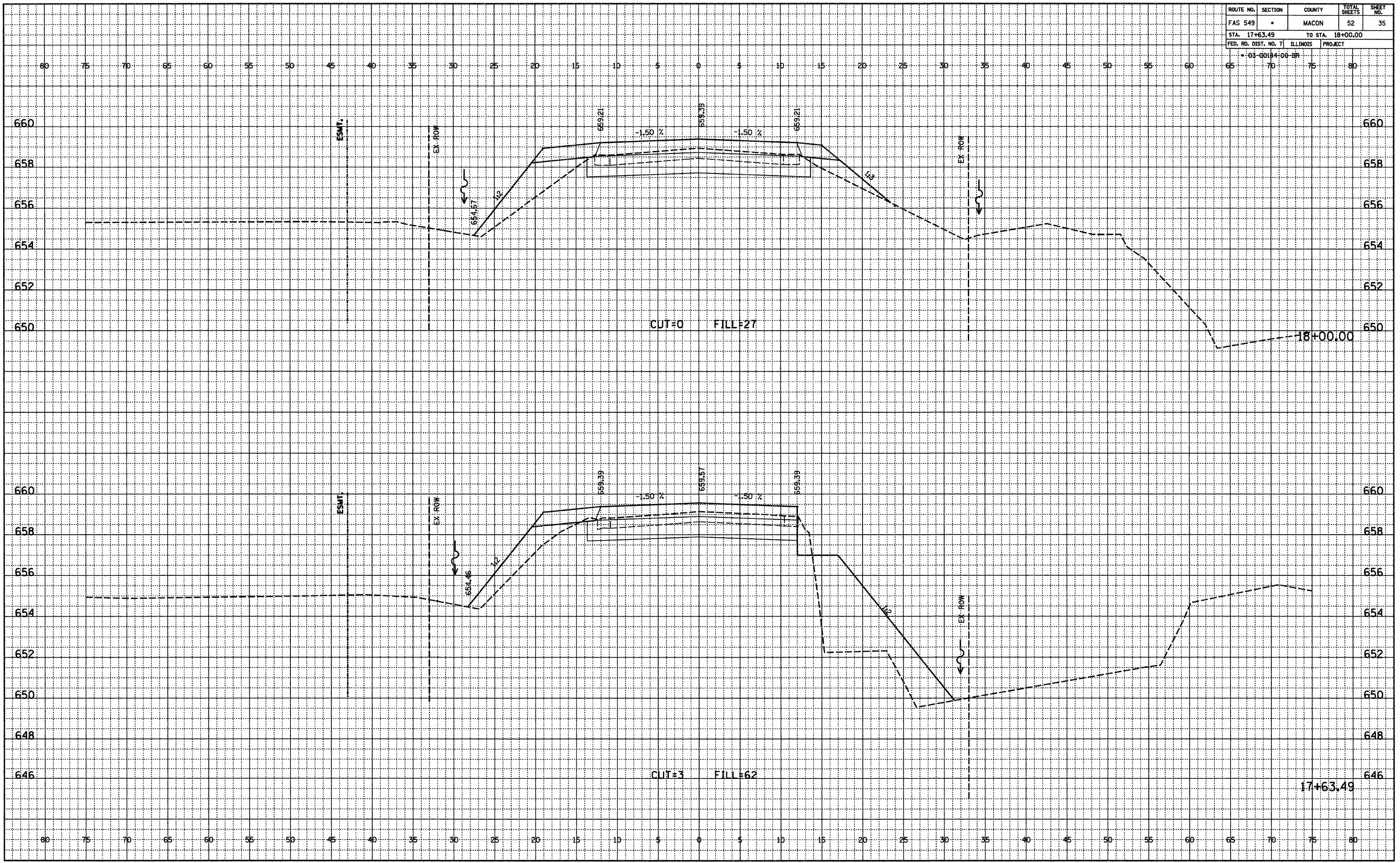
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	34
STA. 16+96.51		TO STA. 17+39.49		
FED. RD. DIST. NO. 7		ILLINOIS PROJECT		
* 03-00194-00-ER		REVISED 12/09 REW		



FINAL SURVEYED, PLOTTED, CHECKED, BY DATE
 NOTEBOOK NO. _____

ORIGINAL SURVEYED, PLOTTED, CHECKED, BY DATE
 NOTEBOOK NO. _____

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	35
STA. 17+63.49		TO STA. 18+00.00		
FED. RD. DIST. NO. 7		ILLINOIS	PROJECT	
*03-00194-00-00				

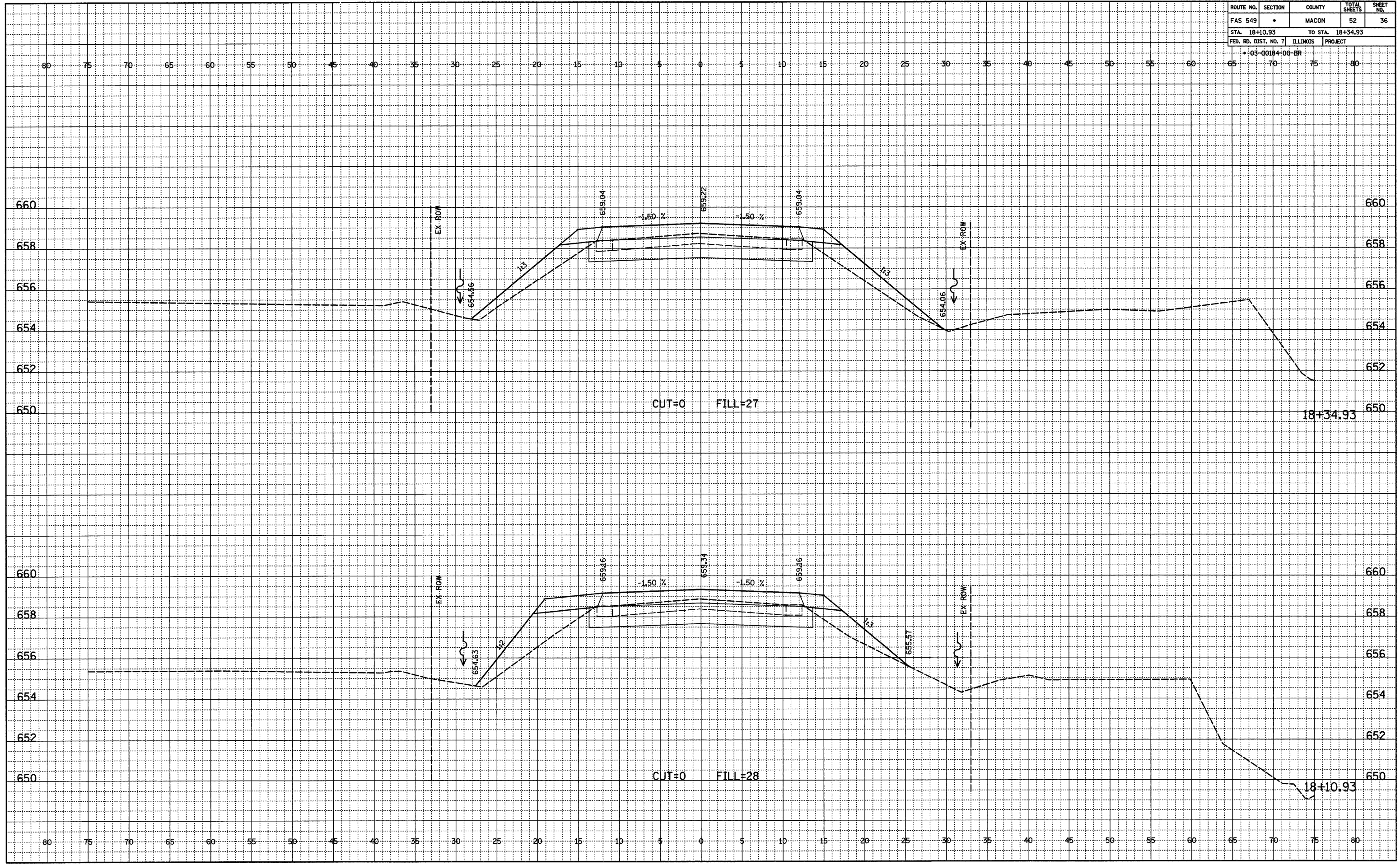


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 PLOTTED BY DATE
 CHECKED BY DATE
 NO. OF WT CHECKED

ORIGINAL SURVEYED BY DATE
 PLOTTED BY DATE
 CHECKED BY DATE
 NO. OF WT CHECKED
 STRUCTURE NOTATIONS CHD

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	36
STA. 18+10.93		TO STA. 18+34.93		
FED. RD. DIST. NO. 7	ILLINOIS	PROJECT		

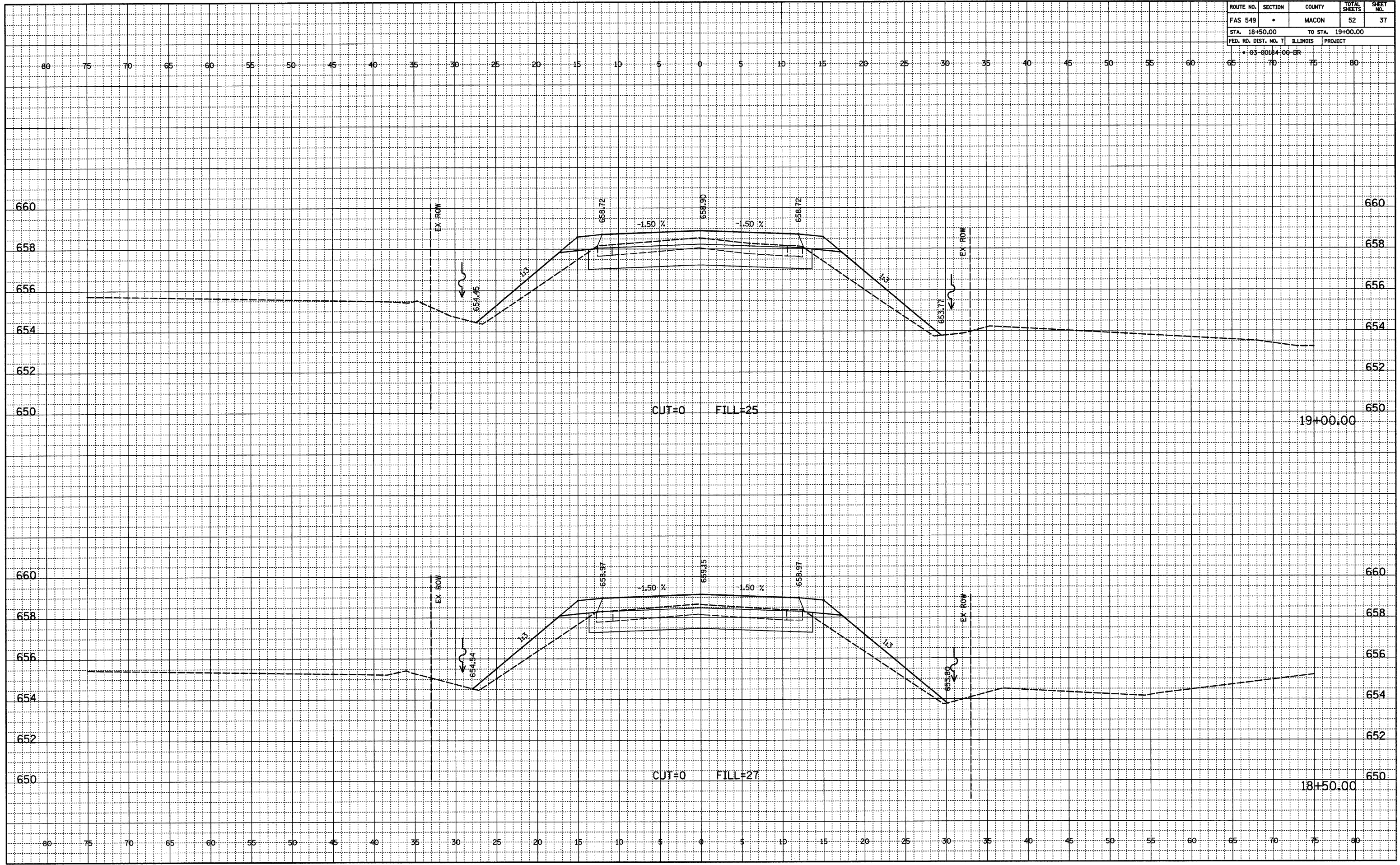
03-00184-00 BR



FINAL
 NOTED
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 NO.

ORIGINAL
 NOTED
 CHECKED
 NO.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	37
STA. 18+50.00		TO STA. 19+00.00		
FED. RD. DIST. NO. 7	ILLINOIS	PROJECT		
* 03-00184-00 BR				



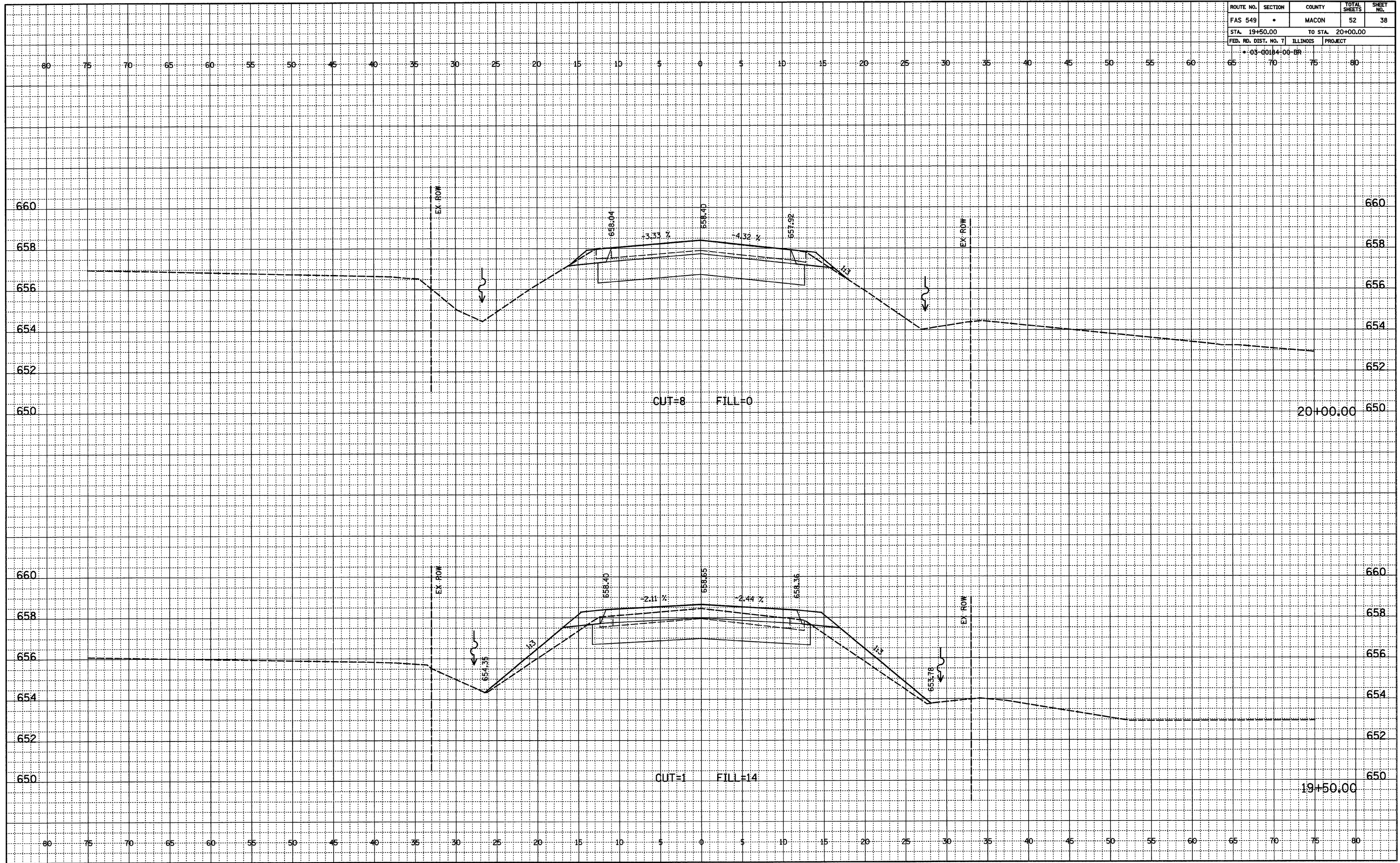
FINAL SURVEYED
NOTEDBOOK
NO.

DATE

ORIGINAL SURVEYED
NOTEDBOOK
NO.

DATE

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	38
STA. 19+50.00		TO STA. 20+00.00		
FED. RD. DIST. NO. 7	ILLINOIS	PROJECT		
* 03-00184-00 BR				



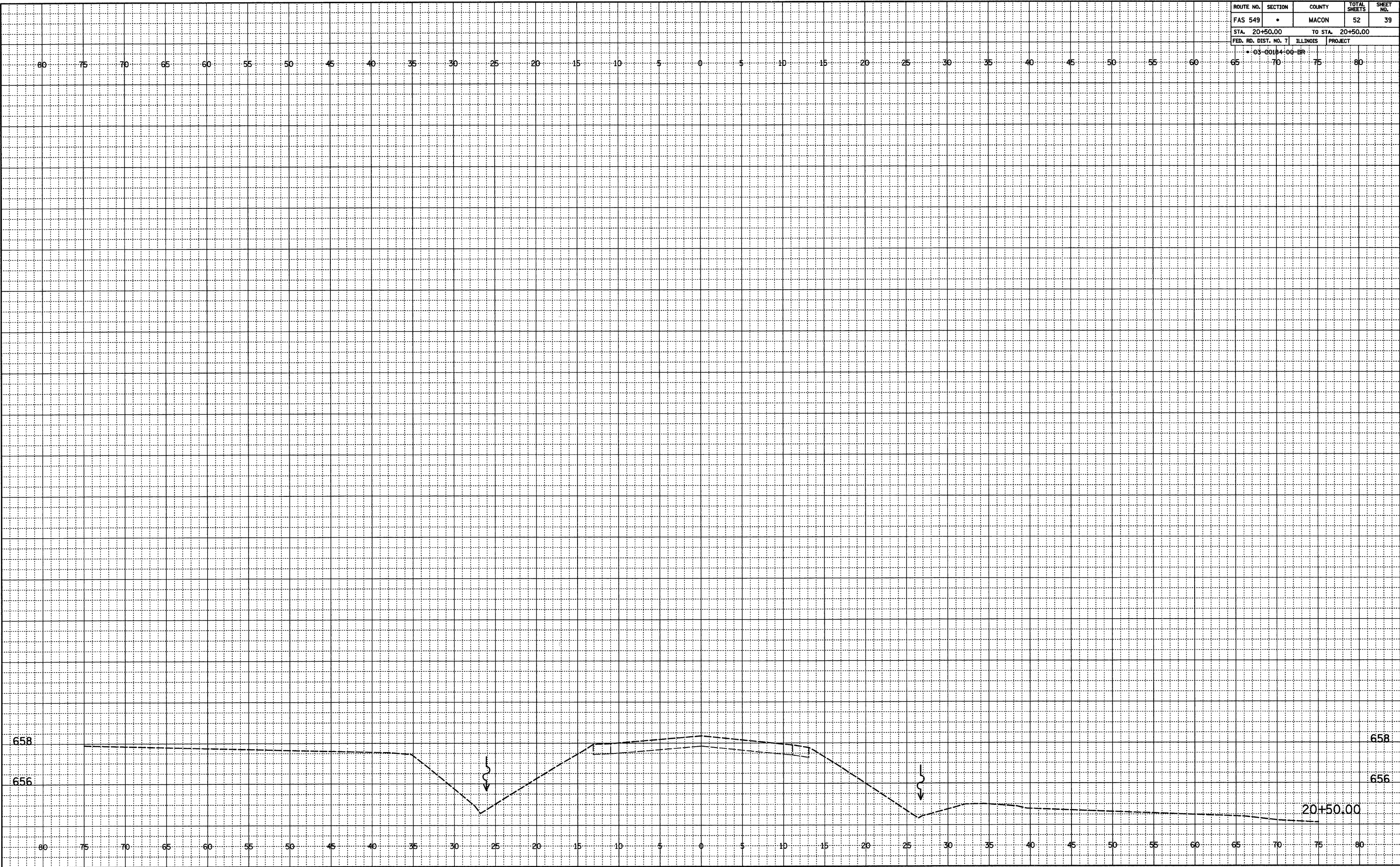
FINAL SURVEYED
 NOTEBOOK NO. _____
 PLOTTED _____
 ALIGNED CHECKED _____
 RT. & WAT. CHECKED _____

ORIGINAL SURVEYED
 NOTEBOOK NO. _____
 PLOTTED _____
 FINISHES CHECKED _____
 STRUCTURE NOTATIONS OK'D _____

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	39
STA. 20+50.00		TO STA. 20+50.00		
FED. RD. DIST. NO. 7		ILLINOIS	PROJECT	
* 03-00184-00-BR				

FINAL	SURVEYED	BY	DATE
NOTEBOOK	PLOTTED		
NO.	ALIGNMENT CHECKED		
	HT. OF WAY CHECKED		

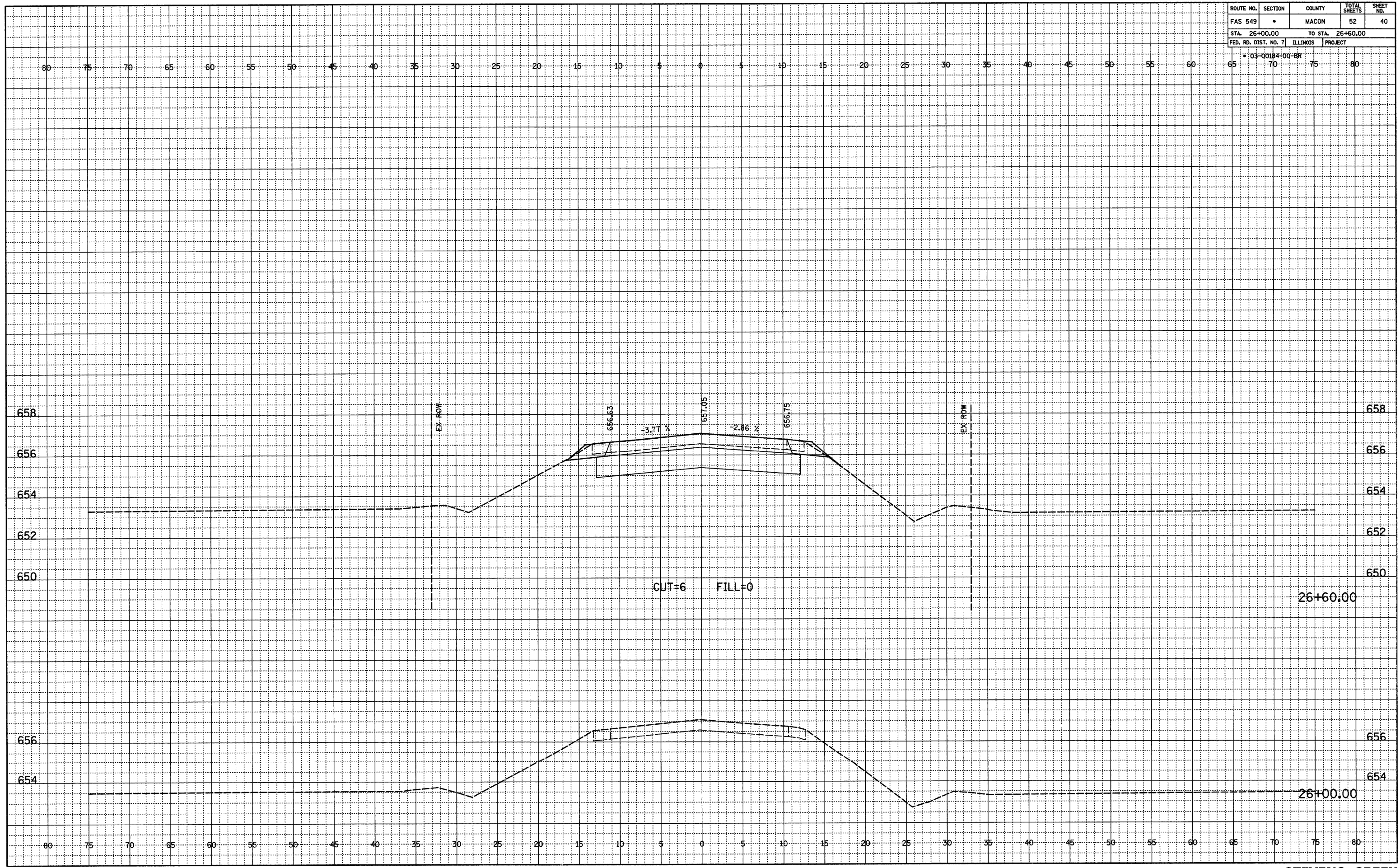
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NOTEBOOK	GRADES CHECKED		
NO.	STRUCTURE NOTATIONS CHECKED		



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	40
STA. 26+00.00		TO STA. 26+60.00		
FED. RD. DIST. NO. 7		ILLINOIS PROJECT		
* 03-00184+00-BR				

FINAL	CHECKED	DATE
NO.	BY	

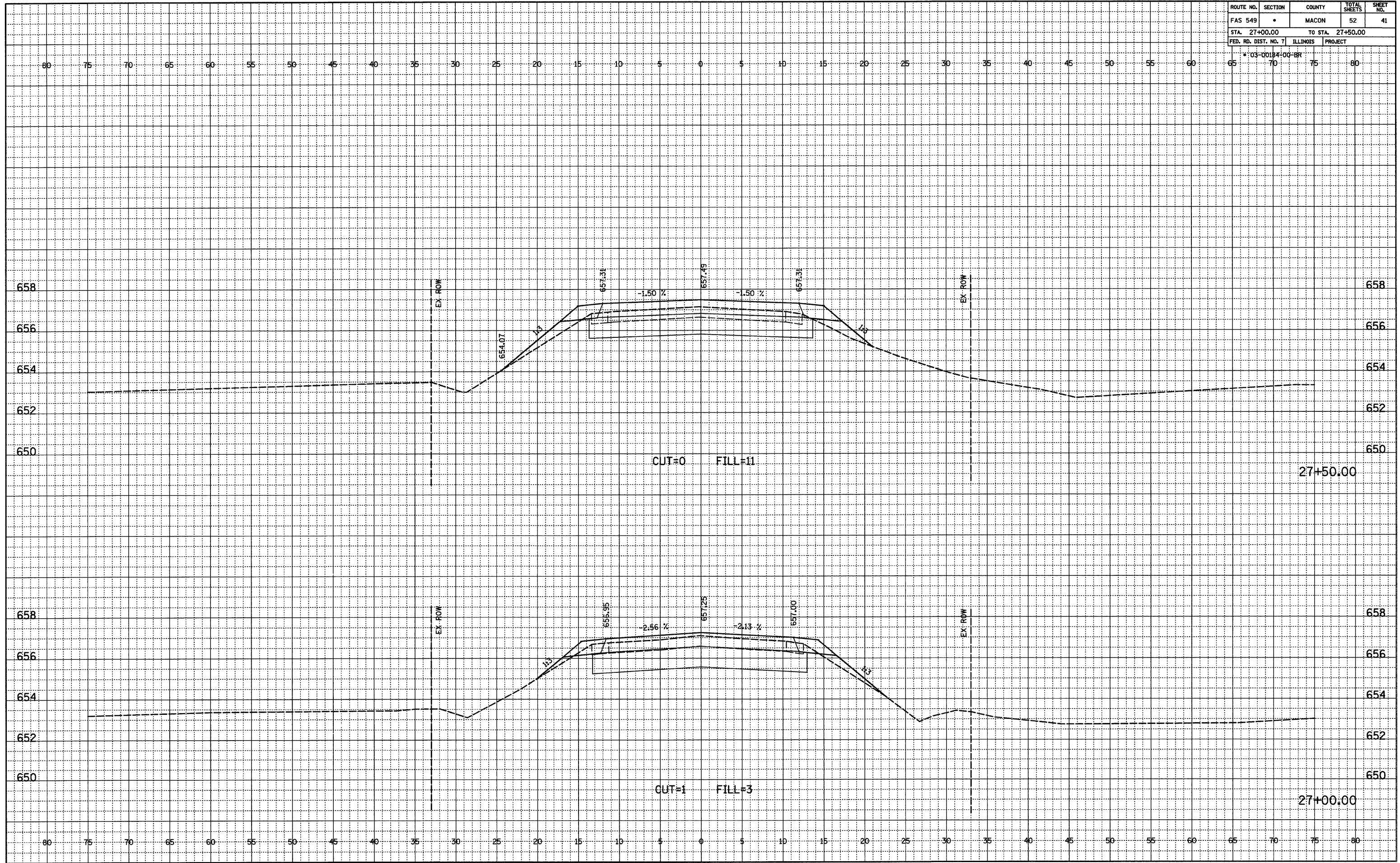
ORIGINAL	CHECKED	DATE
NO.	BY	



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	41
STA. 27+00.00		TO STA. 27+50.00		
FED. RD. DIST. NO. 7		ILLINOIS		PROJECT
*03-00184-00-BR				

FINAL	DATE
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ALIGNED	
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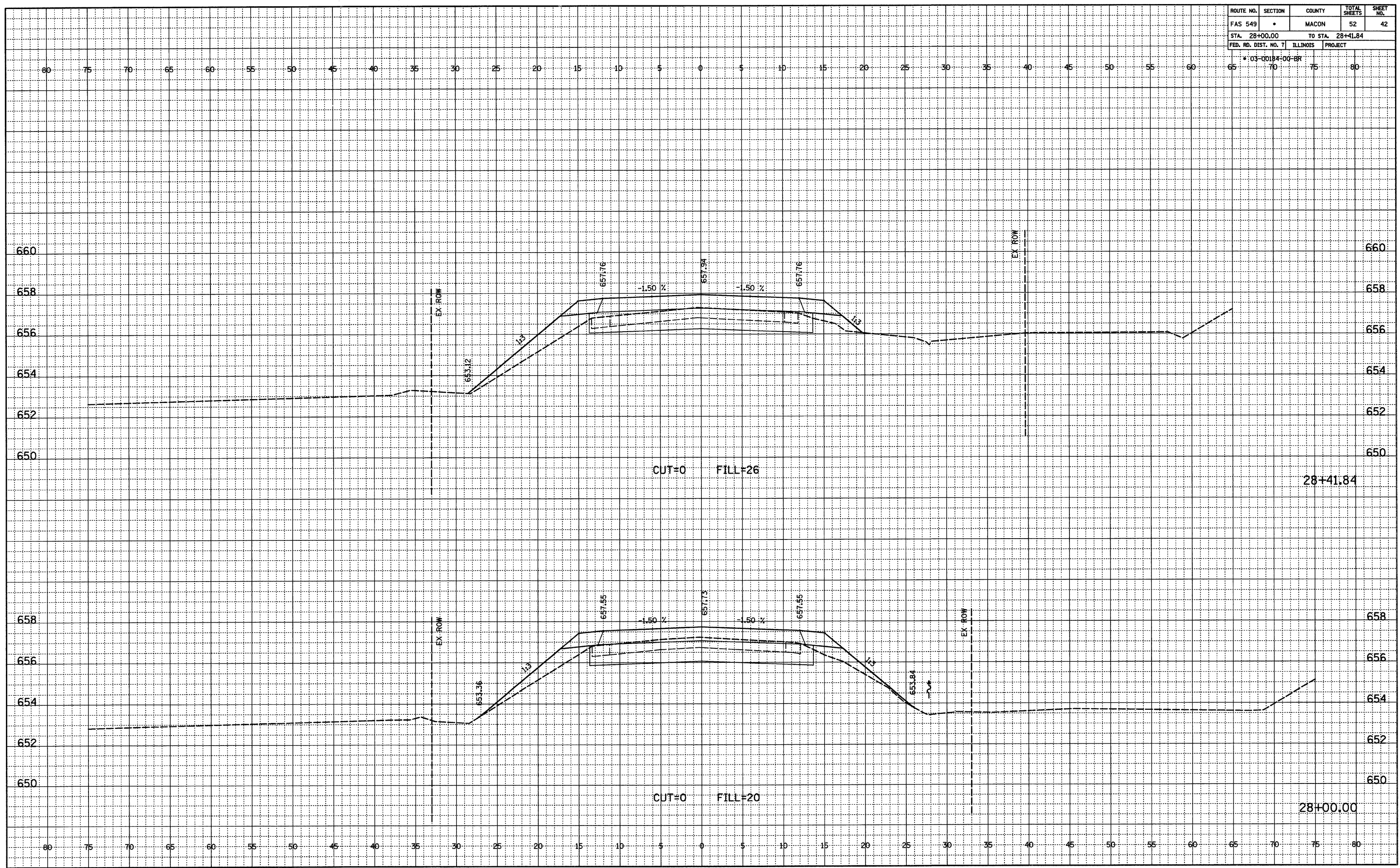
ORIGINAL	DATE
SURVEYED	
PLOTTED	
GRADES	
CHECKED	
BY	
NO.	
STRUCTURE	
NOTATIONS	
CARD	



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	42
STA. 28+00.00		TO STA. 28+41.84		
FED. RD. DIST. NO. 7		ILLINOIS PROJECT		
* 03-00184-00-BR				

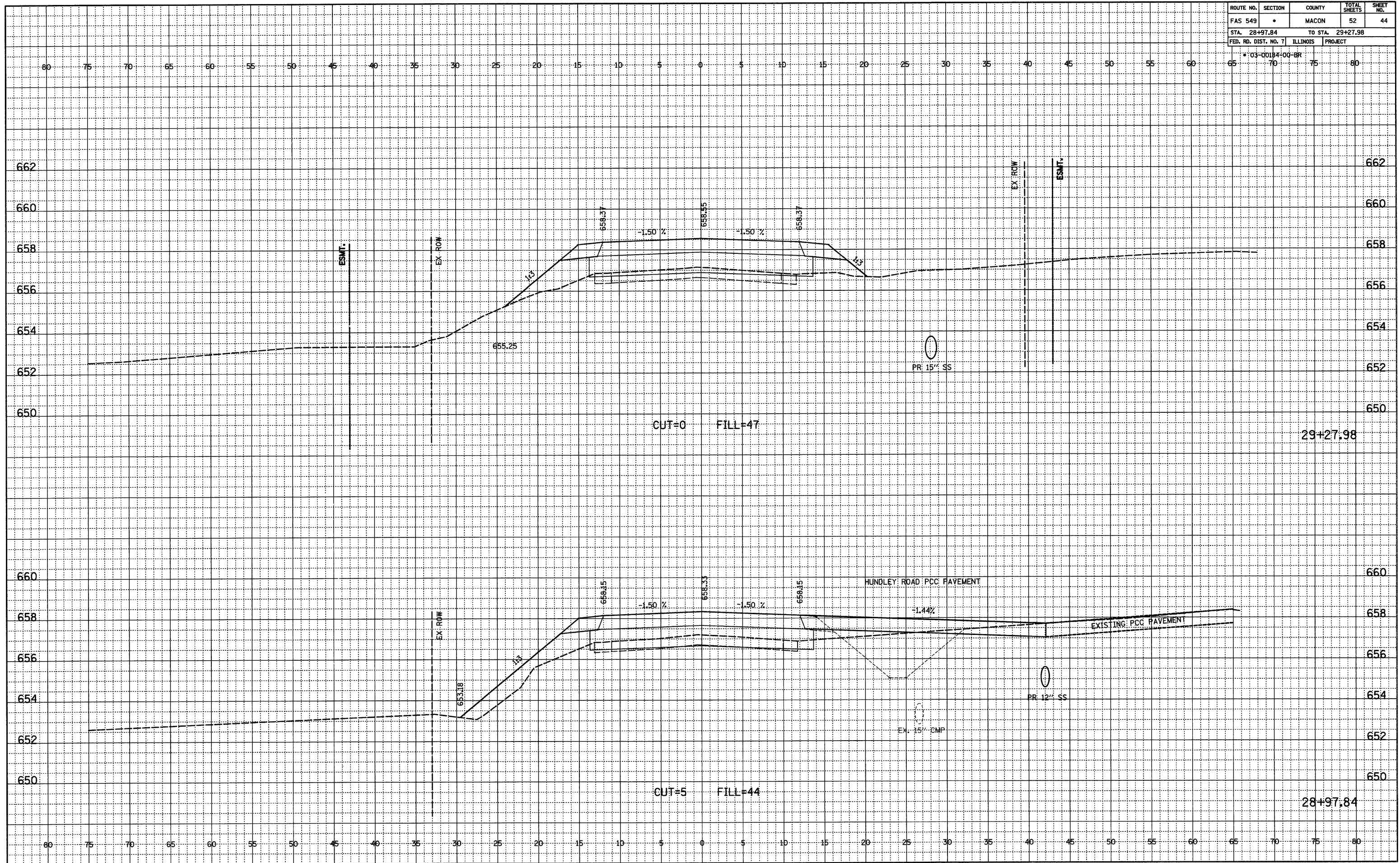
FINAL	DATE
REVIEWED	
NOTED	
NO.	

ORIGINAL	DATE
REVIEWED	
NOTED	
NO.	



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	44
STA. 28+97.84		TO STA. 29+27.98		
FED. RD. DIST. NO. 7	ILLINOIS	PROJECT		

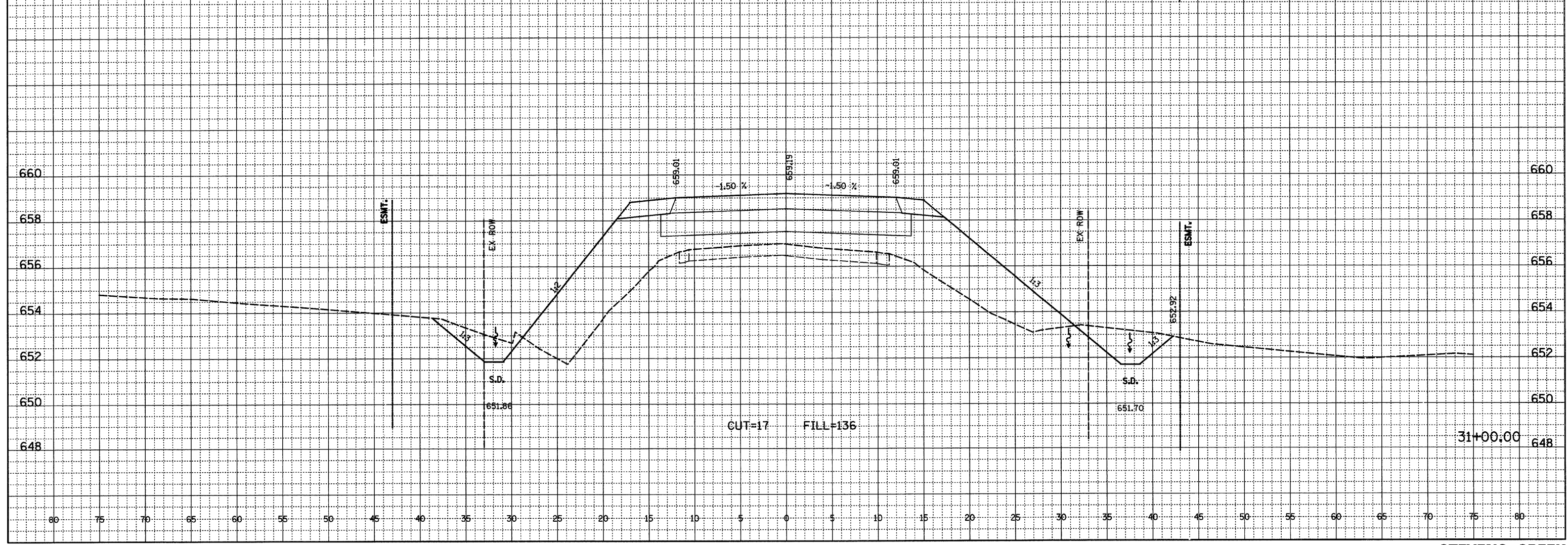
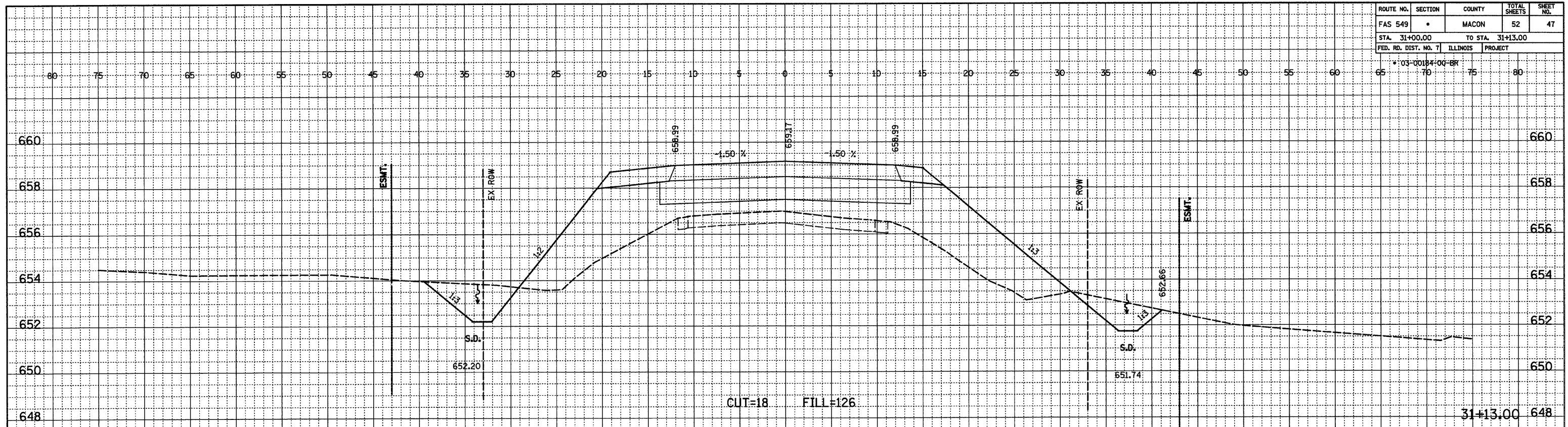
*03-00184-00-BR



FINAL
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 RT. OF WAY CHECKED
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ORIGINAL
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 PLOTTED
 GRADES CHECKED
 SWS NOTED
 STRUCTURE NOTATIONS OK'D
 NO. _____

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	47
STA. 31+00.00		TO STA. 31+13.00		
FED. RD. DIST. NO. 7		ILLINOIS PROJECT		
* 03-00184-00-BR				



BY	DATE

FINAL
 CHECKED
 PLOTTED
 NOTEBOOK
 NO. _____

DESIGNED
 GRADES CHECKED
 RT. & WAY CHECKED

BY	DATE

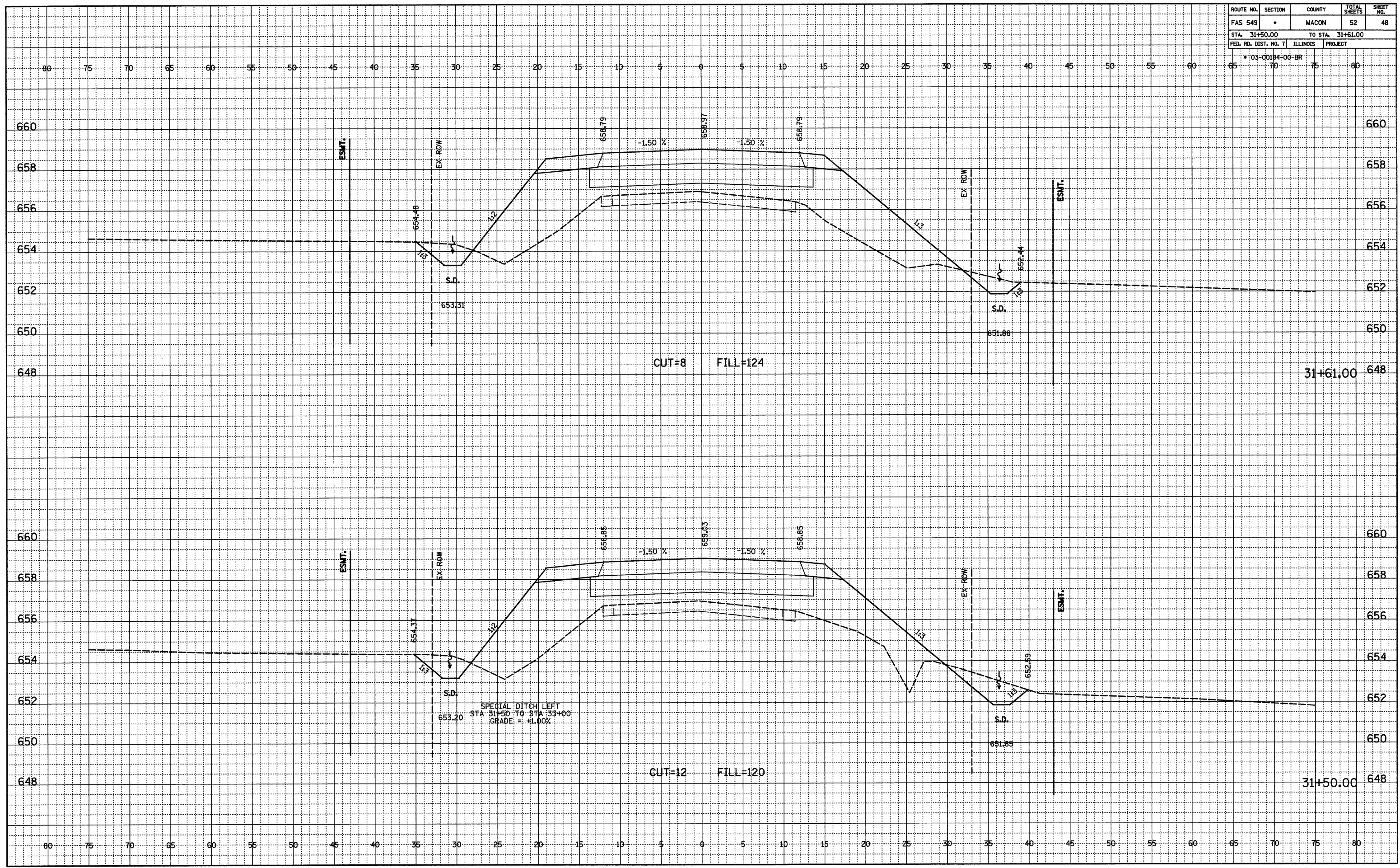
ORIGINAL
 CHECKED
 PLOTTED
 NOTEBOOK
 NO. _____

DESIGNED
 GRADES CHECKED
 STRUCTURE NOTATIONS CHECKED

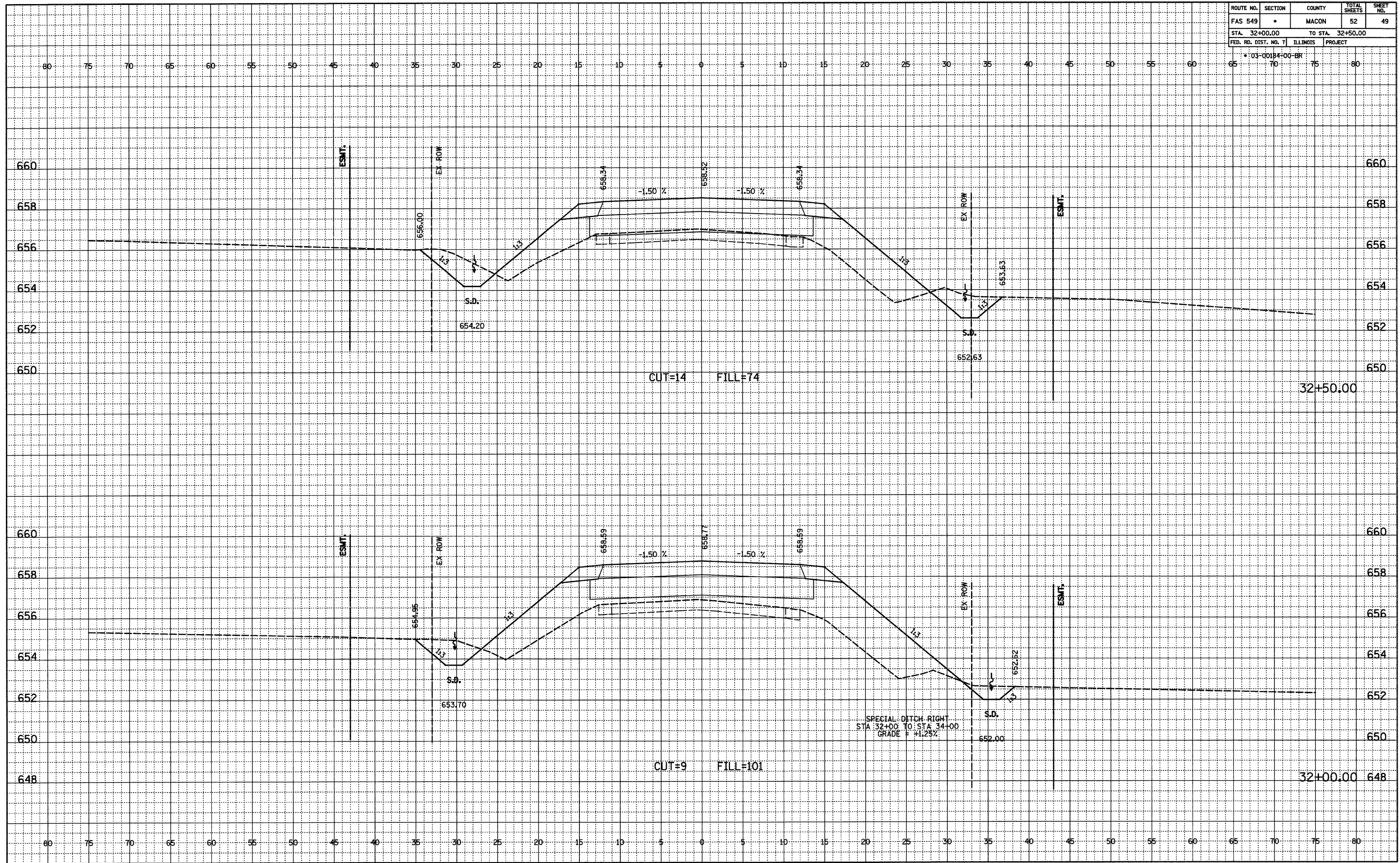
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	48
STA. 31+50.00		TO STA. 31+61.00		
FED. RD. DIST. NO. 7	ILLINOIS	PROJECT		

FINAL	REVISIONS	DATE
NO.	NO.	

ORIGINAL	REVISIONS	DATE
NO.	NO.	



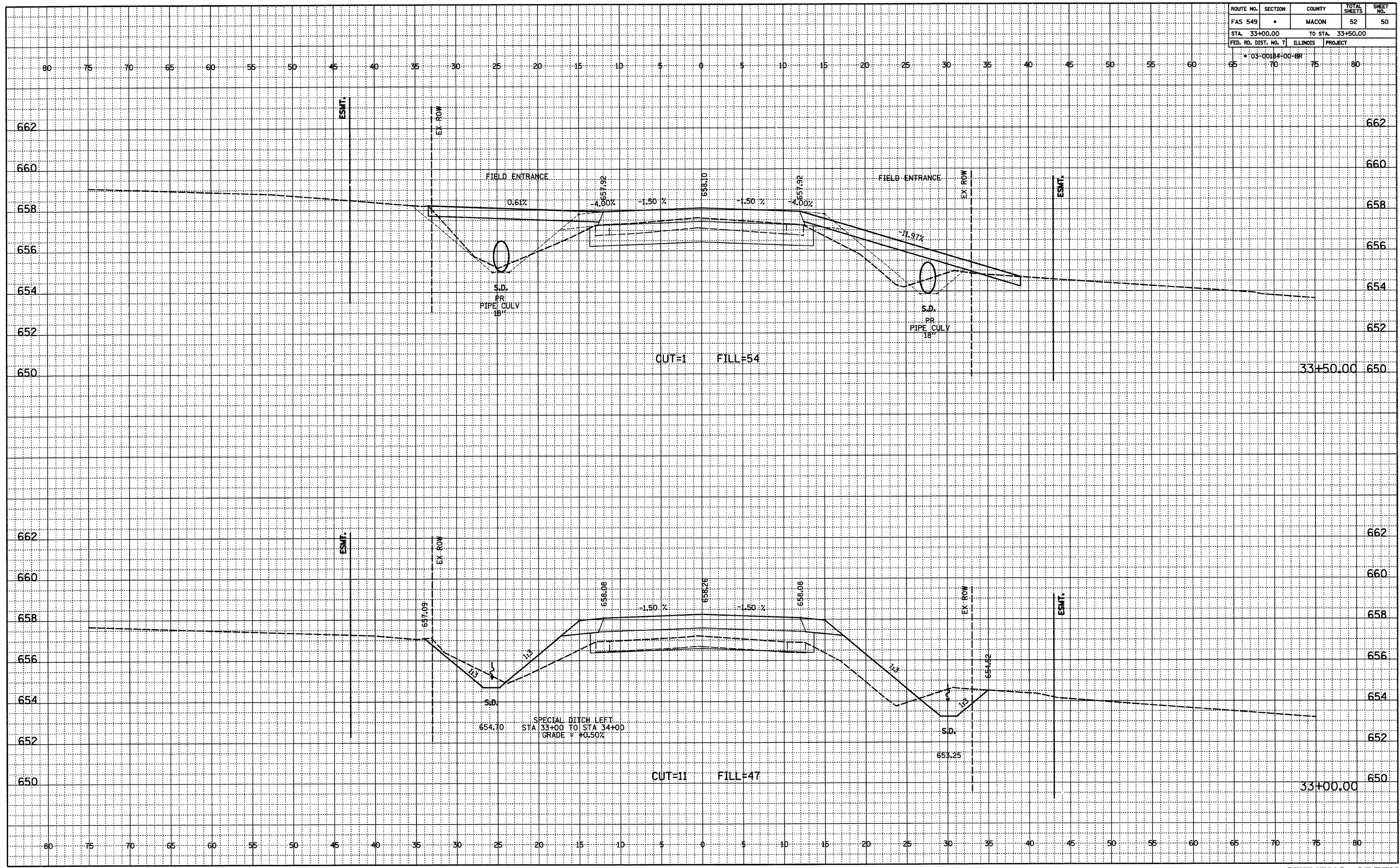
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	49
STA. 32+00.00		TO STA. 32+50.00		
FED. RD. DIST. NO. 7		ILLINOIS PROJECT		
* 03-00184+00-BR				



FINAL
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 DATE _____

ORIGINAL
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 BY _____
 DATE _____

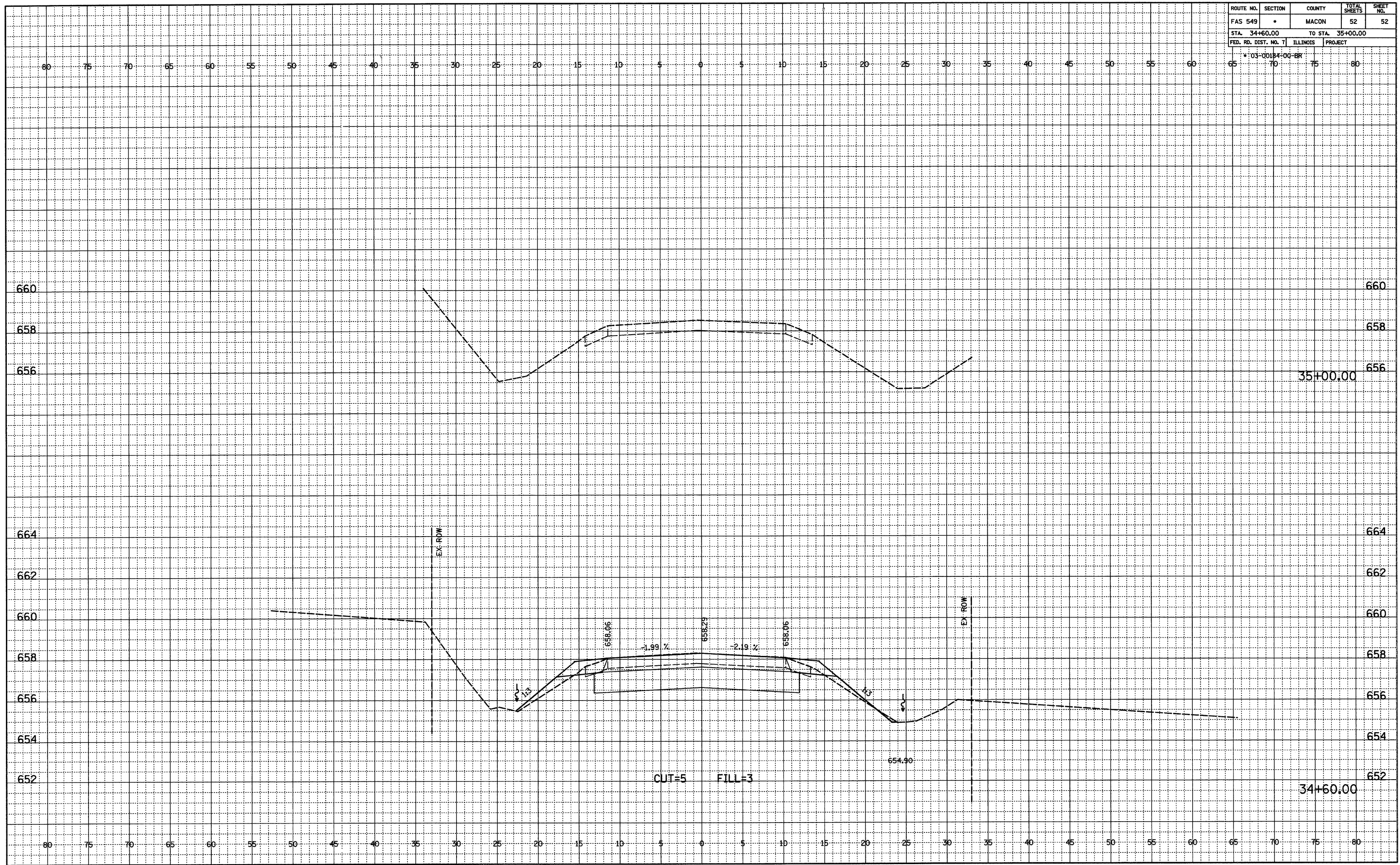
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	50
STA. 33+00.00		TO STA. 33+50.00		
FED. RD. DIST. NO. 7		ILLINOIS PROJECT		
* 03-00184-00-BR				



FINAL
 NO. _____
 DATE _____
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 CHECKED _____
 DATE _____

ORIGINAL
 NO. _____
 DATE _____
 BY _____
 CHECKED _____
 DATE _____

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 549	*	MACON	52	52
STA. 34+60.00		TO STA. 35+00.00		
FED. RD. DIST. NO. 7		ILLINOIS PROJECT		
* 03-00184-00-BR				



FINAL

DESIGNED	DATE
PLOTTED	
ALIGNMENT CHECKED	
RT. & WAY CHECKED	
NO.	

ORIGINAL

DESIGNED	DATE
PLOTTED	
GRADES CHECKED	
SP. & M. CHECKED	
STRUCTURE NOTATIONS CHECKED	
NO.	