

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1595	08-00035-01-BR	MASON	22	1
FED. ROAD DIST. NO. 7		ILLINOIS CONTRACT NO. 93549		

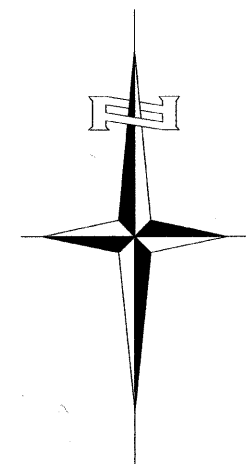
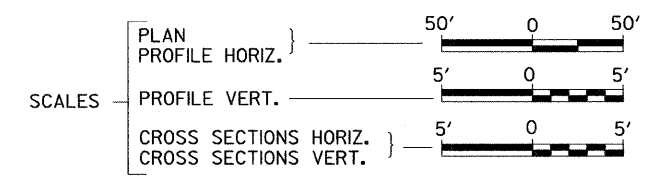
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED
HIGHWAY BRIDGE PROGRAM
MASON COUNTY
SECTION 08-00035-01-BR
F.A.S. 1595 (CH 19) OVER SLEEPY HOLLOW DITCH
PROJECT NO. BRS-1595(104)
JOB NUMBER C-96-207-11

INDEX OF SHEETS

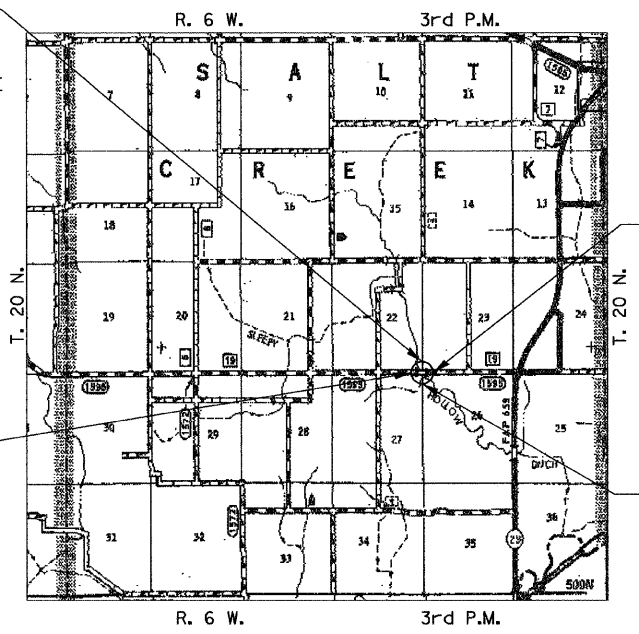
SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	GENERAL NOTES, DETAILS, TYPICAL SECTIONS
3.	SUMMARY OF QUANTITIES, SCHEDULES OF QUANTITIES
4.	TRAFFIC CONTROL PLAN
5.	EROSION CONTROL PLAN
6.	PLAN AND PROFILE
7.-16.	STRUCTURE PLANS
17.-22.	CROSS SECTIONS

REQUIRED HIGHWAY STANDARDS

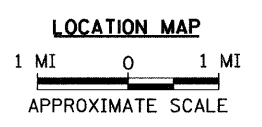
000001-06
280001-05
515001-03
630301-05
635006-03
701901-01
BLR 21-8
BLR 26-2
BLR 27-1



EXISTING STRUCTURE SN 063-3032
 THREE SPAN PCC DECK BEAM WITH STEEL RAIL SUPERSTRUCTURE ON CONCRETE SPILL THRU PILE BENT ABUTMENTS AND CONCRETE CAPPED PILE BENT PIERS ON EXPOSED PRECAST CONCRETE PILING, ±93'-0" BK TO BK, AND 30'-0" O TO O, 30° SKEW WITH CONCRETE SLOPEWALLS ON EMBANKMENT CONES (TO BE REMOVED)



PROPOSED STRUCTURE SN 063-3033
 THREE SPAN 21" PPC DECK BEAM STRUCTURE ON CONCRETE SPILL THRU PILE BENT ABUTMENTS AND CONCRETE ENCASED PILE BENT PIERS, 120'-0" BK TO BK, AND 30'-0" O TO O DECK, 35° RT. AH. SKEW



NET LENGTH OF PROJECT = 500.00 FEET = 0.095 MILES
 DESIGN CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN)
 DESIGN ADT: 325 (2011)
 DESIGN SPEED: 40 MPH

UTILITY COMPANIES

FRONTIER COMMUNICATIONS
 MT. PULASKI, ILLINOIS

MENARD ELECTRIC COOPERATIVE
 PETERSBURG, ILLINOIS

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

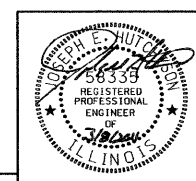
CONTRACT NO. 93549

SECTION 08-00035-01-BR
 ENDS
 STATION 22+00.00

SECTION 08-00035-01-BR
 BEGINS
 STATION 17+00.00

APPROVED	3-9-11	2011
<i>Michael R. Pridemore</i> MASON COUNTY ENGINEER		
PASSED	3/24	2011
<i>Terrance Heston, Esq.</i> DISTRICT SIX ENGINEER OF LOCAL ROADS & STREETS		
PASSED	March 24,	2011
<i>Ron Duchambeau</i> DISTRICT SIX ENGINEER OF CONSTRUCTION		
Released For Bid Based on Limited Review	MARCH 24	2011
<i>Roger Shiskel, Esq.</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION FOUR ENGINEER		
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		

Hutchison Engineering, Inc.
 JACKSONVILLE ILLINOIS



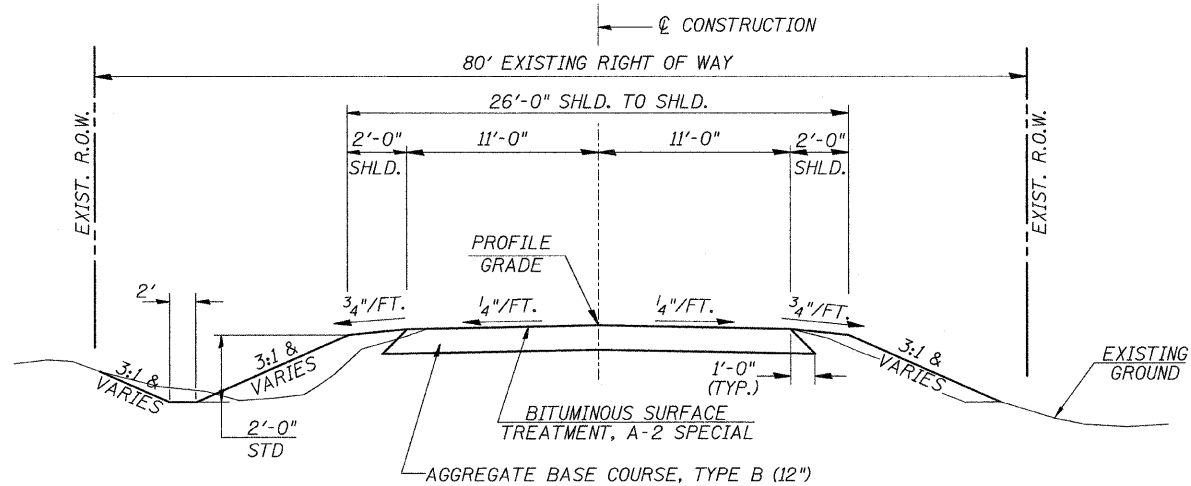
Joseph E. Hutchison
SIGNATURE

ENGINEERS SEAL

2011

JOB#2824

2824E001

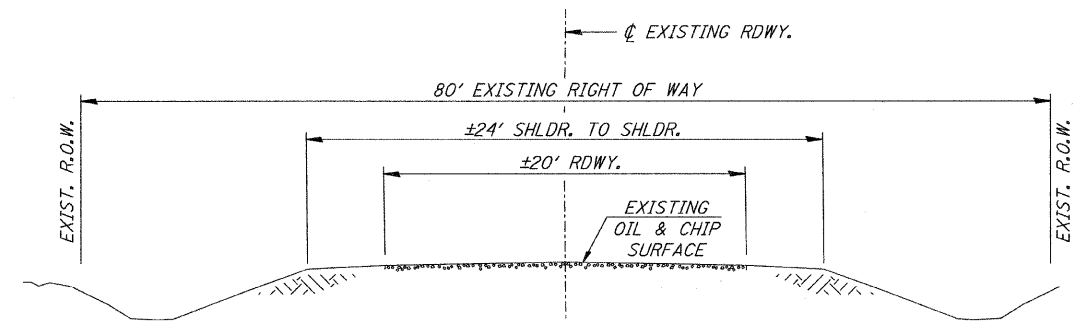


CONSTRUCT GUARDRAIL
SHOULDER WIDENING IN
ACCORDANCE WITH STD 630301

PROPOSED TYPICAL SECTION

STA. 17+00.00 TO STA. 19+33.00
STA. 20+53.00 TO STA. 22+00.00

BRIDGE OMISSION
STA. 19+33.00 TO STA. 20+53.00



EXISTING TYPICAL SECTION

GENERAL NOTES

THE REMOVAL OF EXISTING OIL & CHIP SURFACE AND GRAVEL OR CRUSHED STONE BASE COURSE WHICH MAY BE NECESSARY FOR THE CONSTRUCTION OF THE NEW BRIDGE SHALL BE REMOVED AS EARTH EXCAVATION AND NO COMPENSATION WILL BE ALLOWED FOR ADDITIONAL LABOR OR EQUIPMENT REQUIRED.

ALL WASTE OR UNDESIRABLE MATERIAL AS IDENTIFIED BY THE ENGINEER SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY AT THE CONTRACTOR'S EXPENSE.

ALL EXISTING PRIVATELY OWNED UTILITIES REQUIRING ADJUSTMENT WILL BE MADE BY THE UTILITY COMPANY INVOLVED. WHERE NO PROVISIONS HAVE BEEN MADE FOR ADJUSTMENTS ON THE PLANS, NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO DELAYS OR INCONVENIENCES CAUSED BY THE SAID UTILITY ADJUSTMENTS.

THE PROFILE GRADE ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEETS AND IN THE STATION CROSS SECTIONS ARE TO THE TOP OF THE FINISHED SURFACE.

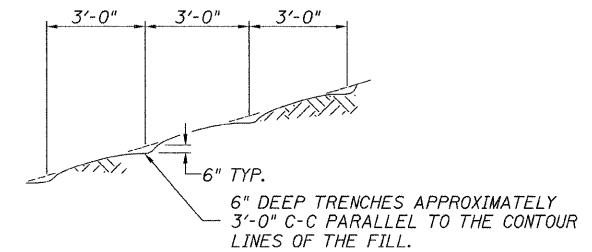
ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION

THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS REPRESENTS THE BEST KNOWLEDGE OF THE COUNTY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATIONS BEFORE STARTING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL INDEMNIFY THE COUNTY, ITS OFFICERS AND EMPLOYEES AGAINST ALL CLAIMS DUE TO DAMAGE TO CORPORATE OR PRIVATE PROPERTY RESULTING FROM HIS CONSTRUCTION OPERATIONS AS DESCRIBED IN ARTICLES 107.20 AND 107.26 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR MAY BE REQUIRED TO CONDUCT SOME OF HIS GRADING AND TRENCHING OPERATIONS AROUND TRANSMISSION POLES AND UNDER TRANSMISSION LINES. THE ADDED COST OF SO DOING SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE PROPERTY MARKERS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

ALL ELEVATIONS SHOWN REFER TO AN U.S.G.S. MEAN SEA LEVEL DATUM.



NOTE: ALL SLOPES 3:1 OR STEEPER AND GREATER THAN 5' IN HEIGHT SHALL BE CONTOUR PLOWED AS SHOWN IN DETAIL. COST SHALL BE INCLUDED WITH SEEDING, CLASS 2 (SPECIAL).

DETAIL OF CONTOUR PLOWING

FILE NAME = V:\Bridge\2824 - Mason\2824\001.dgn	USER NAME = othomas	DESIGNED -	REVISED -	MASON COUNTY COUNTY HIGHWAY 19 OVER SLEEPY HOLLOW DITCH	GENERAL NOTES, TYPICAL SECTIONS, DETAILS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -			1595	08-00035-01-BR	MASON	22	2	
		CHECKED -	REVISED -			CONTRACT NO. 93549					
		DATE -	REVISED -			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. 17+00.00 TO STA. 22+00.00	FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-1595(04)		

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	565
20300100	CHANNEL EXCAVATION	CU YD	970
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	250
28000400	PERIMETER EROSION BARRIER	FOOT	840
28100209	STONE RIPRAP, CLASS A5	TON	710
28200200	FILTER FABRIC	SQ YD	600
35101400	AGGREGATE BASE COURSE, TYPE B	TON	609
① 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
① 50104650	SLOPE WALL REMOVAL	SQ YD	675
50200100	STRUCTURE EXCAVATION	CU YD	240
50300225	CONCRETE STRUCTURES	CU YD	150.0
50300280	CONCRETE ENCASMENT	CU YD	9.5
① 50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	3,528
50800105	REINFORCEMENT BARS	POUND	12,680
* ① 50900205	STEEL RAILING, TYPE S1	FOOT	240
51200957	FURNISHING METAL SHELL PILES 12"x0.250"	FOOT	1,130
① 51202305	DRIVING PILES	FOOT	1,130
① 51203200	TEST PILE METAL SHELLS	EACH	4
51500100	NAME PLATES	EACH	1
① 59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	19.2
* 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
67100100	MOBILIZATION	L SUM	1
* ① 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
① X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.5
① X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION, LOCATION 1	EACH	1
① X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION, LOCATION 2	EACH	1
① X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1
① XX004450	BITUMINOUS SURFACE TREATMENT, A-2 SPECIAL	SQ YD	1,324

① SEE SPECIAL PROVISIONS

CONSTRUCTION TYPE CODE: X080(0011)

* SPECIALTY ITEMS

EARTHWORK SUMMARY

STATION TO STATION	EARTH EXCAVATION	CHANNEL EXCAVATION	STRUCTURE EXCAVATION	FILL	WASTE (SHORTAGE)
	CU YD	CU YD	CU YD	CU YD	CU YD
RDWY 17+00.00 - 19+33.00	436			0	436
RDWY 20+53.00 - 22+00.00	131			23	100
CHANNEL		970			
STRUCTURE			240		
TOTAL	567	970	240	23	536
USE	565	970	240	-	535

(@ 25% SHRINKAGE)

AGGREGATE BASE COURSE, TYPE B

STATION TO STATION	THICKNESS	WIDTH	LENGTH	TON
17+00.00 - 17+50.00	1.00'	22.88' AVG.	50.00'	80
17+50.00 - 19+33.00	1.00'	23.00'	183.00'	295
20+53.00 - 21+50.00	1.00'	23.00'	97.00'	156
21+50.00 - 22+00.00	1.00'	22.23' AVG.	50.00'	78
TOTAL				609

PERIMETER EROSION BARRIER

STATION TO STATION	SIDE	FOOT
17+00 - 19+20	LEFT	235
17+00 - 19+47	RIGHT	265
20+39 - 22+00	LEFT	175
20+65 - 22+00	RIGHT	165
TOTAL		840

BITUMINOUS SURFACE TREATMENT, A-2 SPECIAL

STATION TO STATION	WIDTH	LENGTH	SQ YD
17+00.00 - 17+50.00	21.88' AVG.	50.00'	122
17+50.00 - 19+33.00	22.00'	183.00'	447
BRIDGE DECK	30.00'	120.00'	400
20+53.00 - 21+50.00	22.00'	97.00'	237
21+50.00 - 22+00.00	21.23' AVG.	50.00'	118
TOTAL			1,324

TRAFFIC BARRIER TERMINAL, TYPE 5A

STATION TO STATION	SIDE	EACH
19+30.25 - 19+43.50	RIGHT	1
20+42.50 - 20+55.75	LEFT	1
TOTAL		2

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

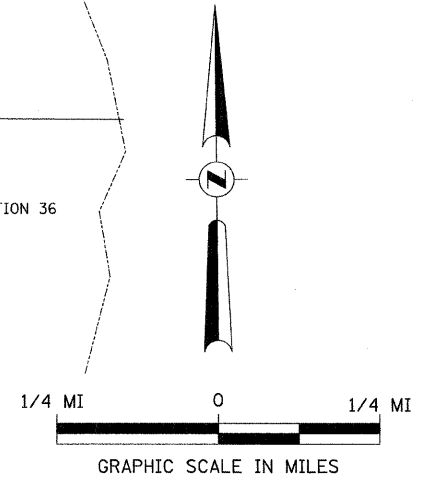
STATION TO STATION	SIDE	EACH
18+80.25 - 19+30.25	RIGHT	1
20+55.75 - 21+05.75	LEFT	1
TOTAL		2

R 6 W, 3rd PM



- 1 ROAD CLOSED
1 MILE AHEAD
LOCAL TRAFFIC ONLY
R11-3
- 2 ROAD CLOSED
1 1/4 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
- 3 ROAD CLOSED
1/2 MILE AHEAD
LOCAL TRAFFIC ONLY
R11-3
- 4 ROAD CLOSED
AHEAD
W20-3
- 5 ROAD CLOSED
500 FT
W20-3
- 6 TYPE III BARRICADES

SEE STANDARD BLR 21
AND SPECIAL PROVISIONS



FILE NAME = V:\Bridg\2824 - Mason\2824h001.dgn	USER NAME = othomas	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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	PLOT DATE = 3/4/2011	DATE = 03/02/09	REVISED -

**MASON COUNTY
COUNTY HIGHWAY 19 OVER
SLEEPY HOLLOW DITCH**

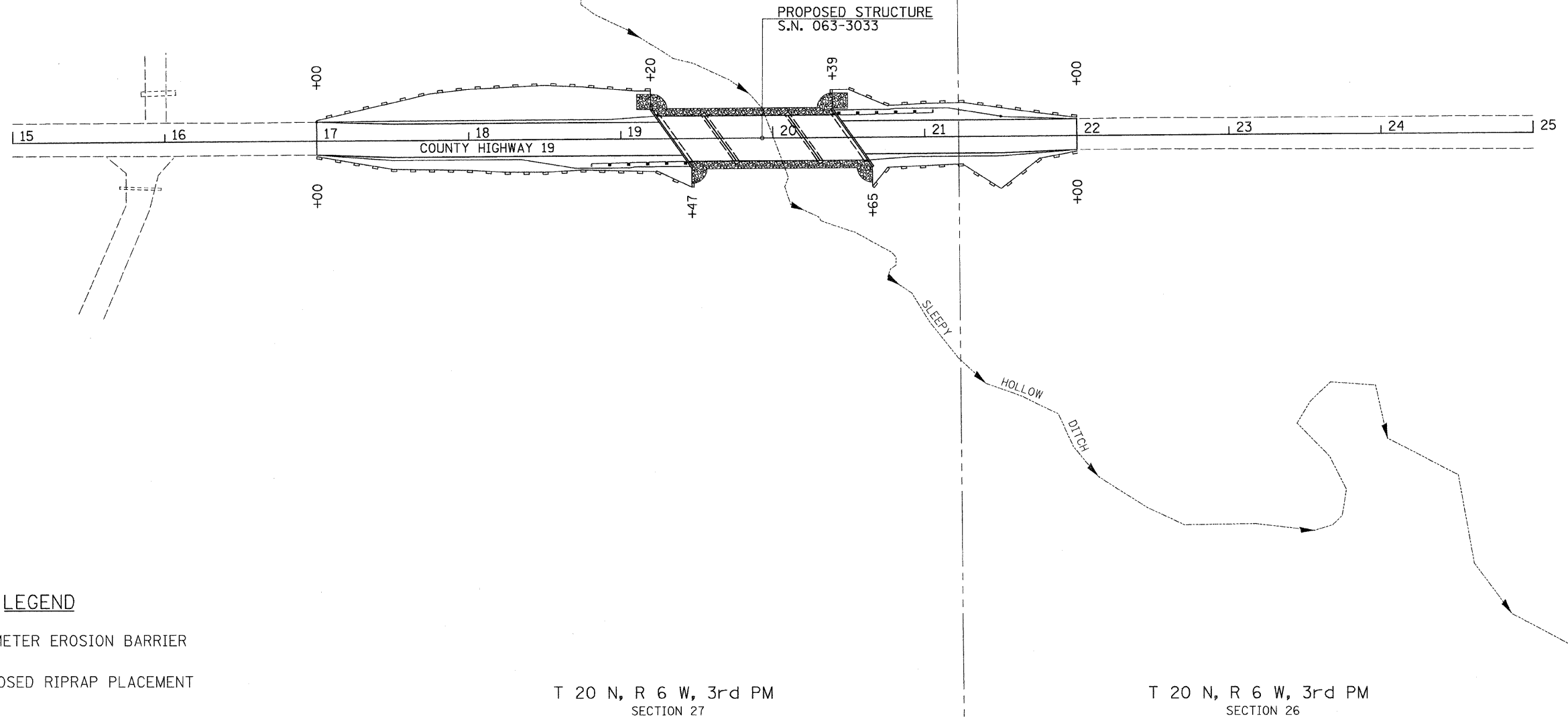
TRAFFIC CONTROL PLAN	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA. 17+00.00 TO STA. 22+00.00	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1595	08-00035-01-BR	MASON	22	4
CONTRACT NO. 93549				
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-1595(04)	



T 20 N, R 6 W, 3rd PM
SECTION 22

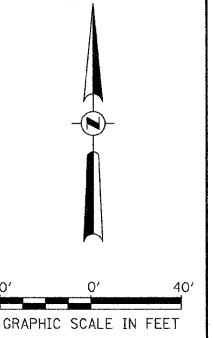
T 20 N, R 6 W, 3rd PM
SECTION 23

NOTE: TEMPORARY EROSION CONTROL SEEDING SHALL BE DONE IN ACCORDANCE WITH ARTICLE 280.04 OF THE STANDARD SPECIFICATIONS.



LEGEND

-  PERIMETER EROSION BARRIER
-  PROPOSED RIPRAP PLACEMENT



T 20 N, R 6 W, 3rd PM
SECTION 27

T 20 N, R 6 W, 3rd PM
SECTION 26

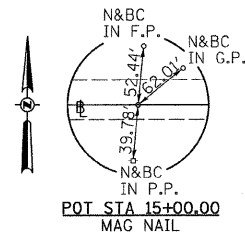
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	PLOT SCALE = 48.00' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/4/2011	DATE -	REVISED -

**MASON COUNTY
COUNTY HIGHWAY 19 OVER
SLEEPY HOLLOW DITCH**

EROSION CONTROL PLAN

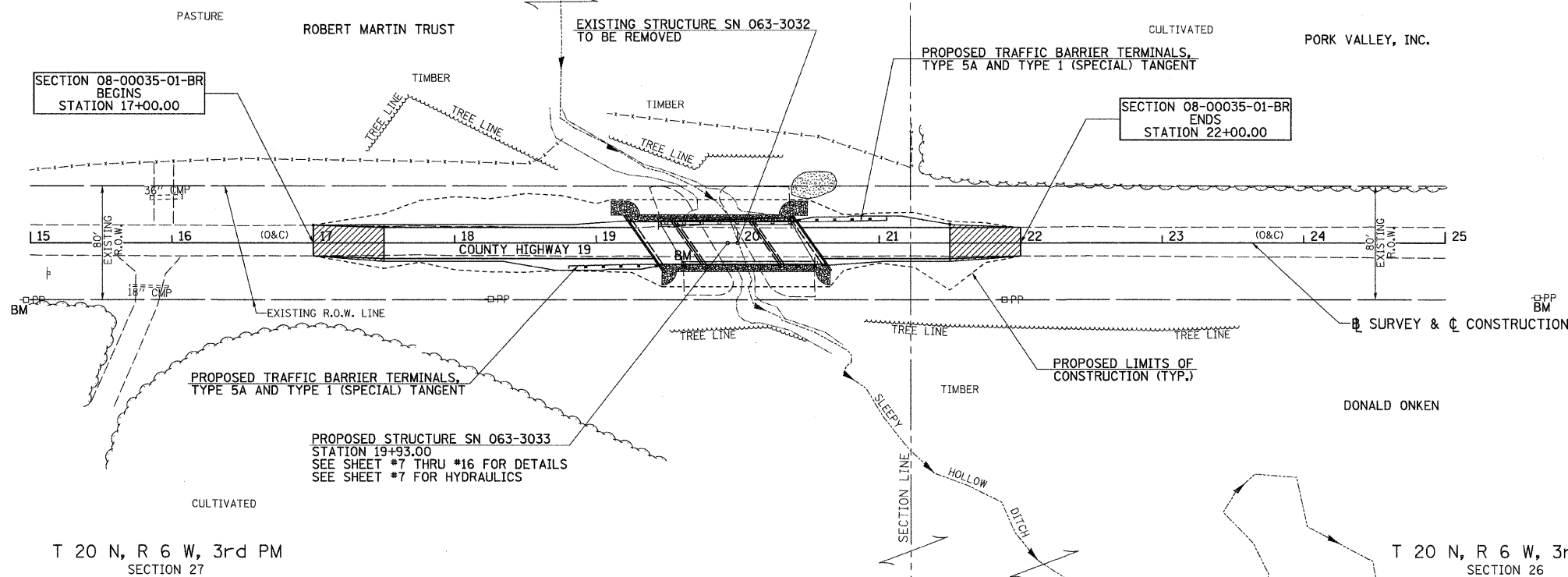
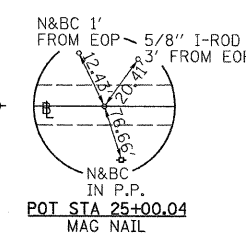
SCALE: 1" = 40' SHEET NO. 1 OF 1 SHEETS STA. 17+00.00 TO STA. 22+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1595	08-00035-01-BR	MASON	22	5
CONTRACT NO. 93549				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-1595(104)				



T 20 N, R 6 W, 3rd PM
SECTION 22

T 20 N, R 6 W, 3rd PM
SECTION 23

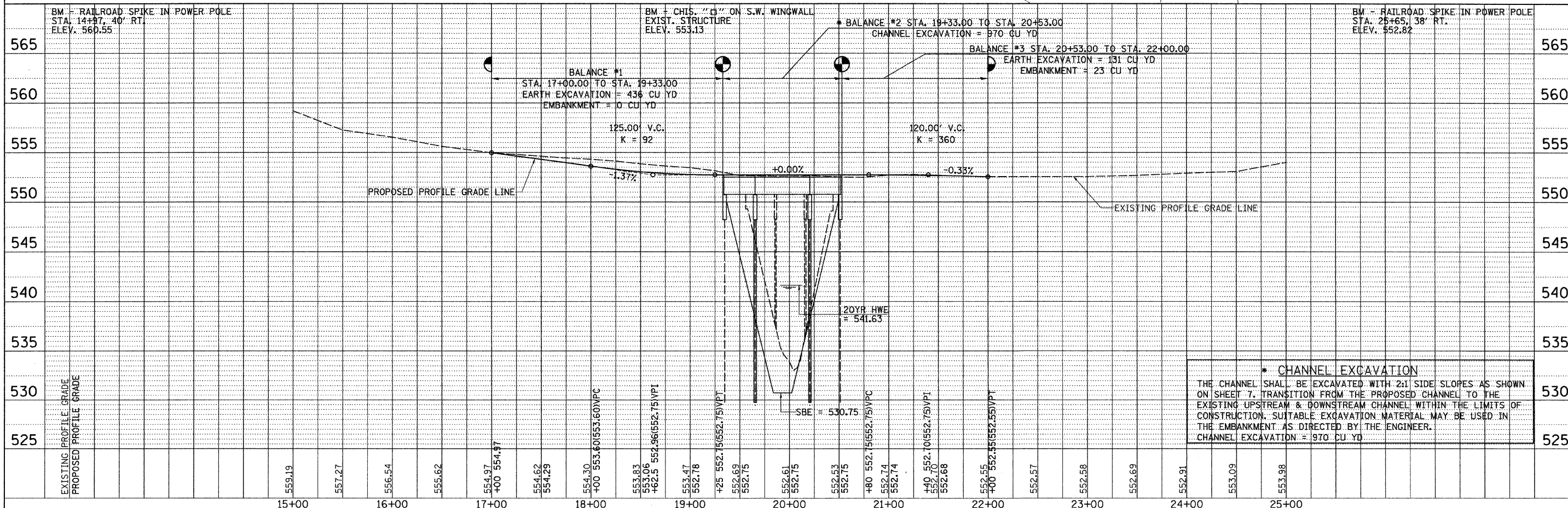


LEGEND

- TRANSITION TO OR FROM EXISTING TO PROPOSED TYPICAL PAVEMENT
- EXISTING RIPRAP
- PROPOSED RIPRAP PLACEMENT

DATE	
BY	
PLAN	
SURVEYED	
ALIGNED	
CHECKED	
BY	
NOTE BOOK	
NO.	
DATE	
BY	
FILE	
NO.	

DATE	
BY	
PROFILE	
SURVEYED	
CROSS	
CHECKED	
BY	
NOTE BOOK	
NO.	
DATE	
BY	
FILE	
NO.	



FILE NAME =	USER NAME = cthomas	DESIGNED -	REVISED -	MASON COUNTY COUNTY HIGHWAY 19 OVER SLEEPY HOLLOW DITCH		PLAN AND PROFILE SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. 17+00.00 TO STA. 22+00.00		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
V:\Bridg\2824 - Mason\2824p001.dgn		DRAWN -	REVISED -					1595	08-00035-01-BR	MASON	22	6
PLOT SCALE = 50.00' / IN.		CHECKED -	REVISED -					CONTRACT NO. 93549				
PLOT DATE = 3/4/2011		DATE -	REVISED -					FED. ROAD DIST. NO. 7 [ILLINOIS] FED. AID PROJECT BRS-1595(104)				

B.M.: RR Spike in Power Pole
Sta. 14+97, 40' Rt.
Elev. 560.55

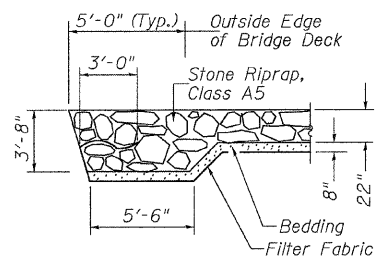
RR Spike in Power Pole
Sta. 25+65, 38' Rt.
Elev. 552.82

Existing Structure:

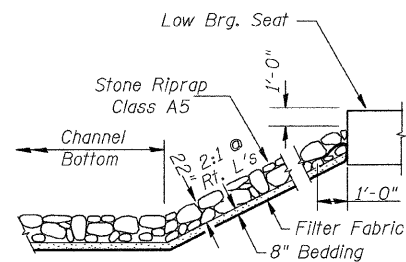
Three span PPC deck beam superstructure with steel rail on concrete spill thru pile bent abutments and concrete capped pile bent piers on exposed precast concrete piling. The structure is ±93' back to back of abutments, ±30' out to out of deck and is skewed 30° with concrete slopewalls on the embankment cones. Str. No. 069-3032

Salvage: None

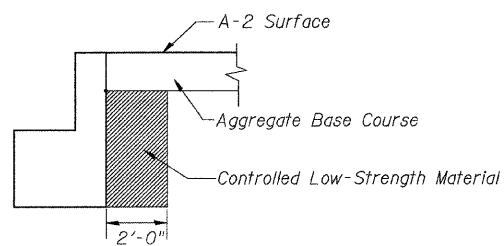
Road to be closed to traffic during construction.



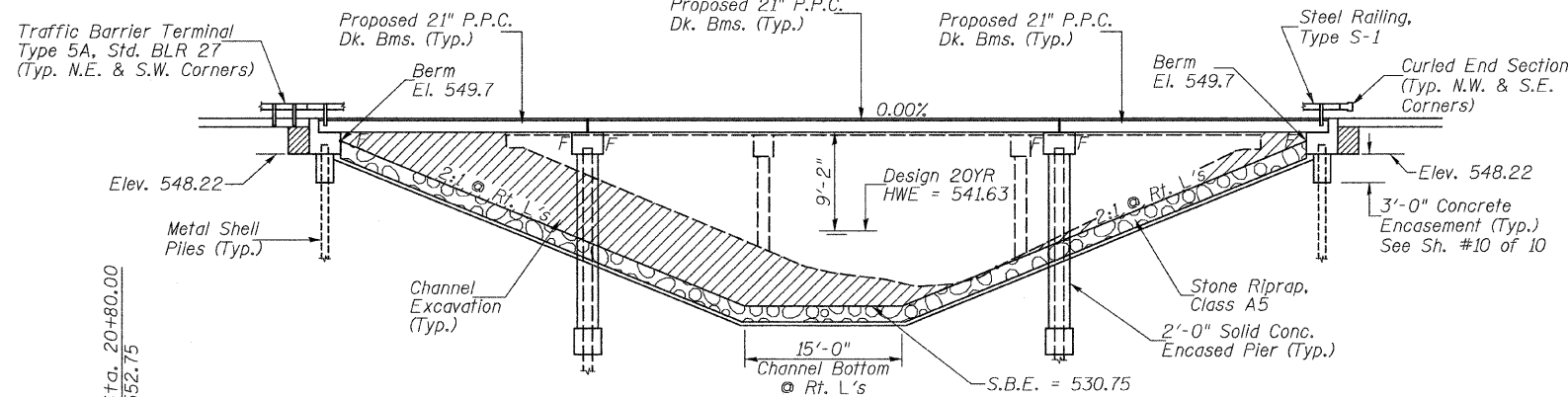
SECTION A-A



STONE RIPRAP DETAIL

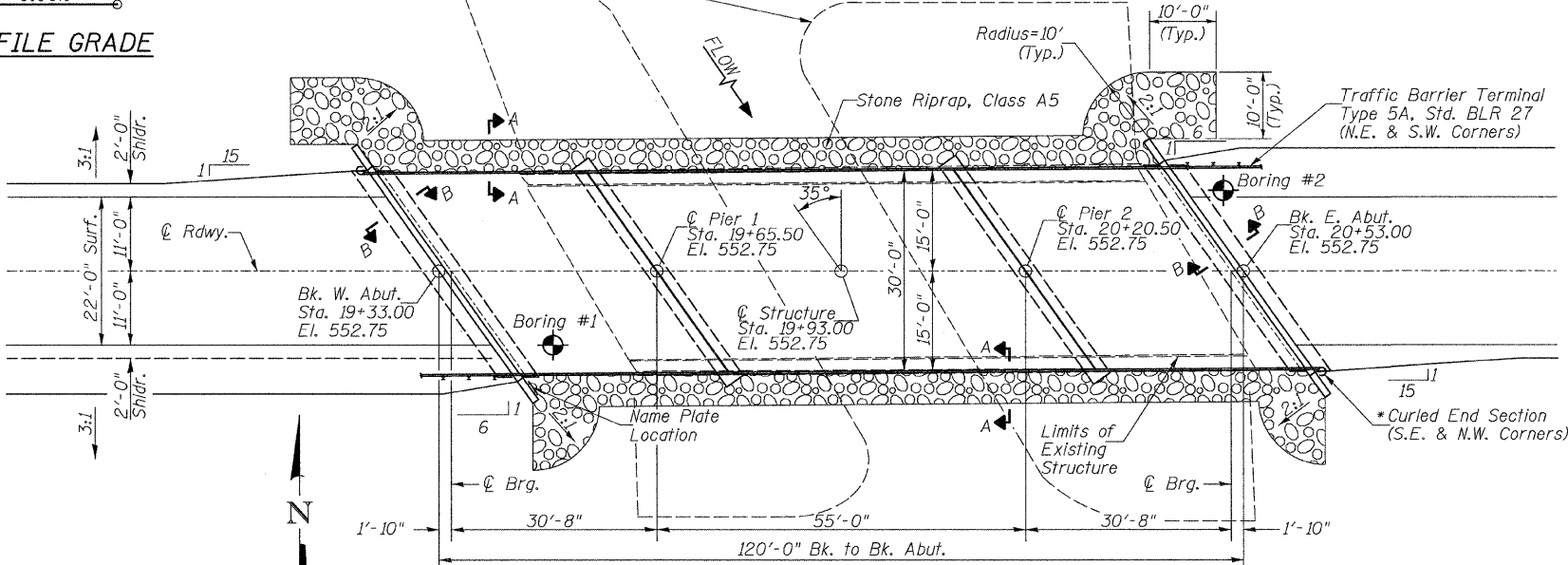


SECTION B-B



ELEVATION

PROFILE GRADE



PLAN

DESIGN SCOUR TABLE

Location	W. Abut	Pier 1	Pier 2	E. Abut
Design Scour Elevation	548.22	526.69	526.69	548.22

WATERWAY INFORMATION

Drainage Area = 10.59 Sq. Mi.		Low Grade Elev. = 552.55 @ Sta. 22+00.00							
Flood Yr.	Q	C.F.S.	Opening	Sq. Ft.	Nat.	Head - Ft.	Headwater El.		
		Exist.	Prop.		H.W.E.	Exist.	Prop.		
Design	20	1,550	211	386	541.63	0.99	0.00	542.62	541.63
Base	100	2,300	268	460	542.92	1.45	0.01	544.37	542.93

Construction of this project complies with IDNR,
Office of Water Resources Statewide Permit No. 2

DESIGN SPECIFICATIONS

2007 AASHTO (LRFD) & Interims

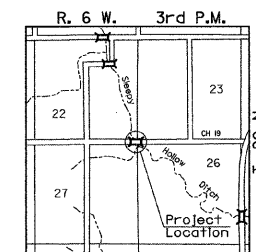
DESIGN STRESSES

(FIELD UNITS) $f'_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (Rein.)

(PRECAST PRESTRESSED UNITS) $f'_c = 6,000$ p.s.i.
 $f'_{ci} = 5,000$ p.s.i.
 $f'_s = 270,000$ p.s.i. ($\frac{1}{2}$ " Strands)
 $f'_{si} = 201,960$ p.s.i. ($\frac{1}{2}$ " Strands)

LOADING HL-93

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



LOCATION SKETCH

GENERAL NOTES

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at the substructures specified or approved by the Engineer before ordering the remainder of the piles. For Soil Boring Logs, See Special Provisions. A Corrosion Inhibitor shall be used in the concrete for Precast Prestressed Concrete Deck Beams according to Article 1020.05(b)(12) of the Standard Specifications. Reinforcement Bars shall conform to the requirements of ASTM A706 Grade 60. Reinforcement Bars designated (E) shall be epoxy coated. Layout of the slope protection system may be varied in the field to suit ground conditions as directed by the Engineer. The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products.

**SLEEPY HOLLOW DITCH
BUILT 2011 BY
MASON COUNTY
SEC. 08-00035-01-BR
C.H. 19 STATION 19+93.00
F.A. PROJ. BRS-1595(104)
STR. NO. 063-3033 LOADING HL-93**

NAME PLATE

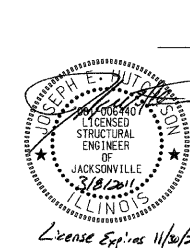
Locate Name Plate at S.W. Wingwall
Corner of Bridge (See Std. 515001)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	CU YD	---	970	970
Stone Riprap, Class A5	TON	---	710	710
Filter Fabric	SQ YD	---	600	600
① Removal of Existing Structures	EACH	---	---	1
① Slope Wall Removal	SQ YD	---	675	675
Structure Excavation	CU YD	---	240	240
Concrete Structures	CU YD	---	150.0	150.0
① Precast Prestressed Concrete Deck Beams (21" Depth)	SQ FT	3,528	---	3,528
Reinforcement Bars	POUND	---	12,680	12,680
① Steel Railing, Type S1	FOOT	240	---	240
Furnishing Metal Shell Piles 12"x0.250"	FOOT	---	1,130	1,130
① Driving Piles	FOOT	---	1,130	1,130
① Test Pile Metal Shells	EACH	---	4	4
Concrete Encasement	CU YD	---	9.5	9.5
Name Plates	EACH	---	1	1
① Controlled Low-Strength Material	CU YD	---	19.2	19.2
① Underwater Structure Excavation Protection, Location 1 (Pier #1)	EACH	---	1	1
① Underwater Structure Excavation Protection, Location 2 (Pier #2)	EACH	---	1	1
① Bituminous Surface Treatment, A-2 Special	SQ YD	400	---	400

① See Special Provisions

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



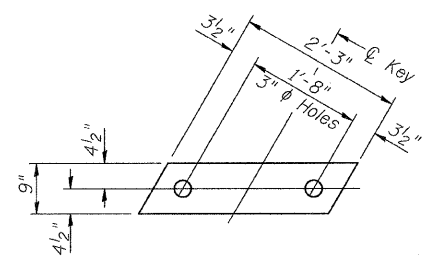
Illinois Structural No. 6440
Expires 11/30/2012

GENERAL PLAN & ELEVATION

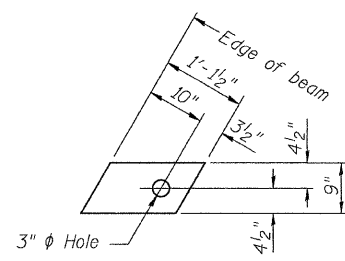
**MASON COUNTY
SECTION 08-00035-01-BR
C.H. 19 OVER SLEEPY HOLLOW DITCH**

DESIGNED	C.T.M.
CHECKED	J.E.H.
DRAWN	C.E.T.
CHECKED	J.E.H.

SHEET NO. 1	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10 SHEETS	CH 19	08-00035-01-BR	MASON	22	7
S.N. 063-3033			CONTRACT NO. 93549		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-1595(104)		

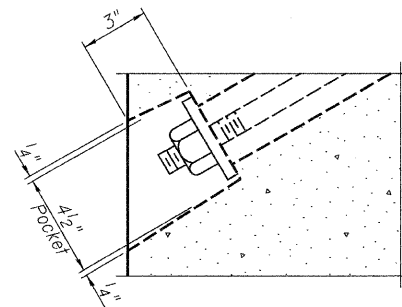


1/2" FABRIC BEARING PAD
(Interior) 36 Required

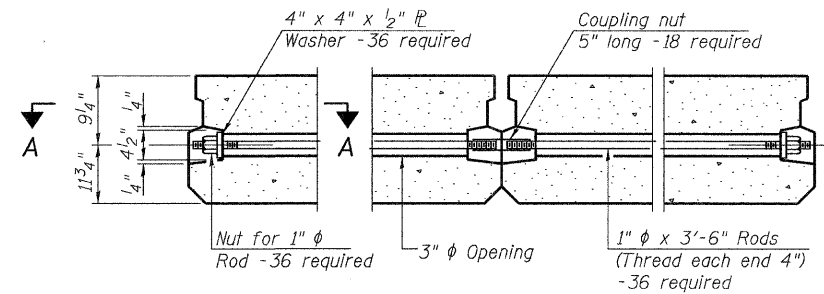


1/2" FABRIC BEARING PAD
(Exterior) 8 Required

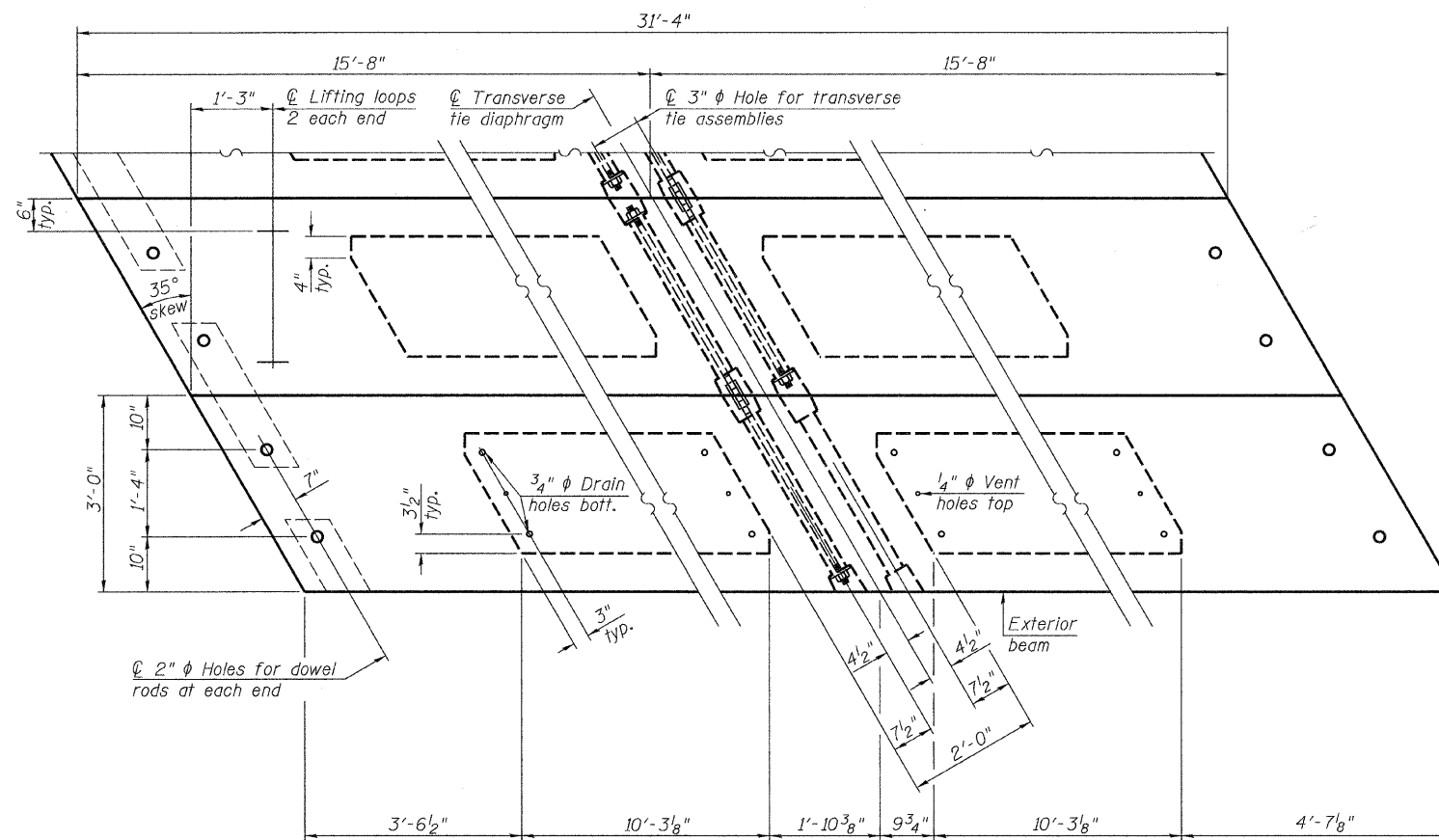
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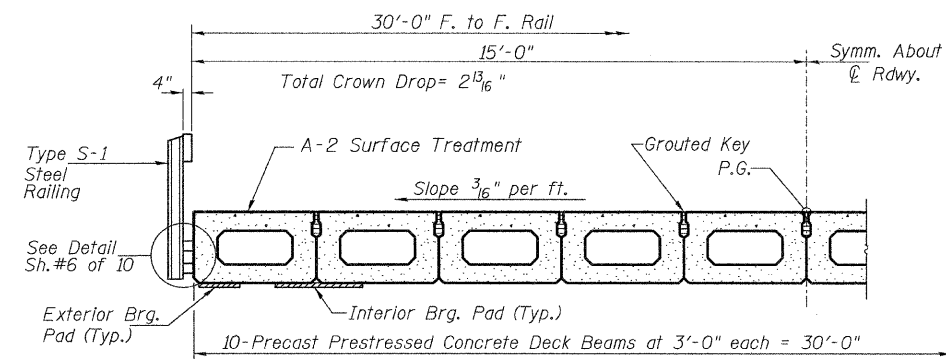
SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY



PLAN VIEW



HALF CROSS SECTION

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
① Precast Prestressed Concrete Deck Beams (21" Depth)	SQ FT	1,880

① See Special Provisions

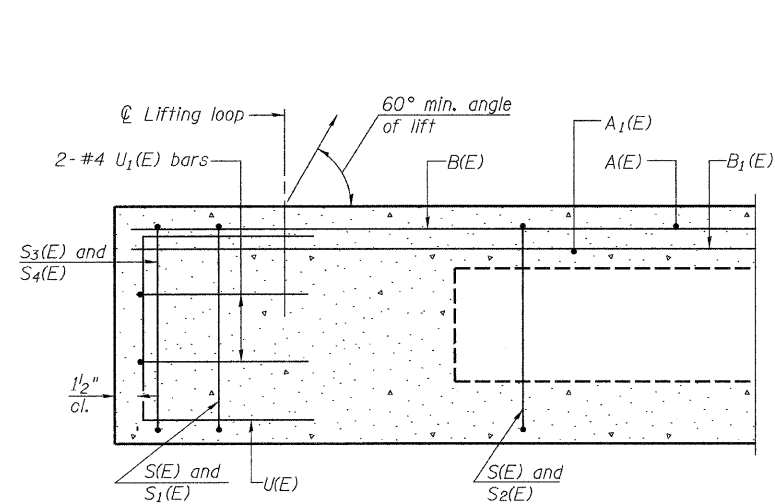
Note: Connect beams in pairs with the transverse tie configuration shown.

NOTES

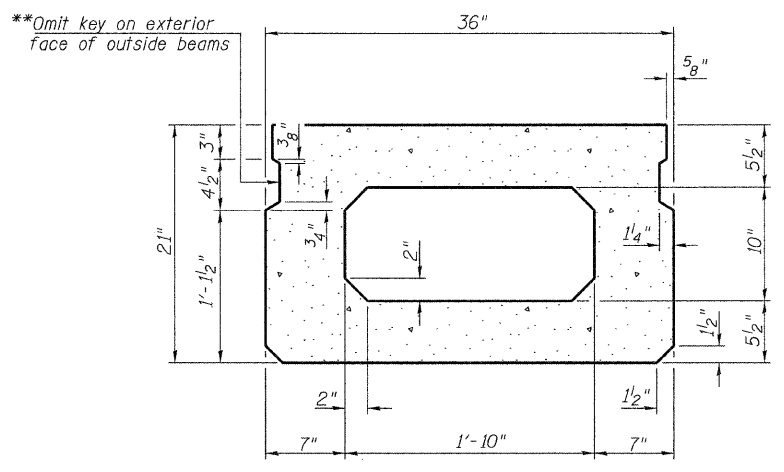
Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
 Reinforcement bars shall conform to ASTM A 706, Grade 60.
 Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
 A minimum 2 1/2" lifting pin shall be used to engage the lifting loops during handling.
 Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
 Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
 Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

SUPERSTRUCTURE - SPANS 1 & 3
MASON COUNTY
SECTION 08-00035-01-BR
C.H. 19 OVER SLEEPY HOLLOW DITCH

SHEET NO. 2	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10 SHEETS	CH 19	08-00035-01-BR	MASON	22	8
S.N. 063-3033			CONTRACT NO. 93549		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-1595(104)		



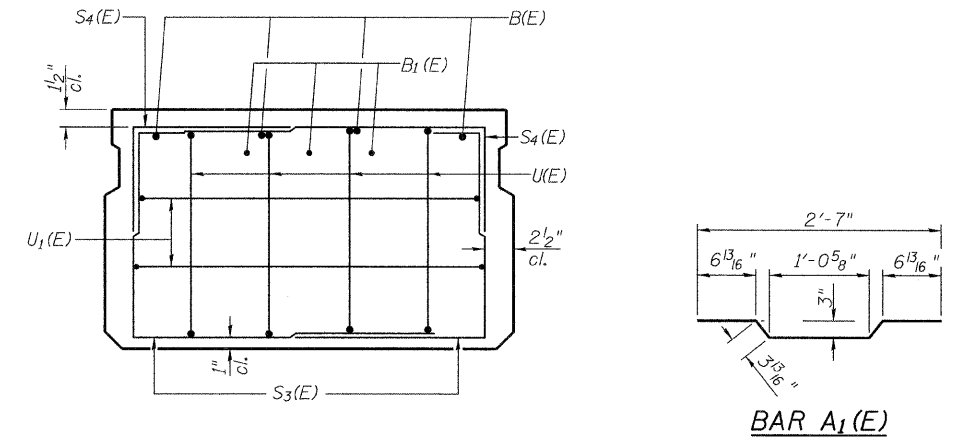
SECTION C-C



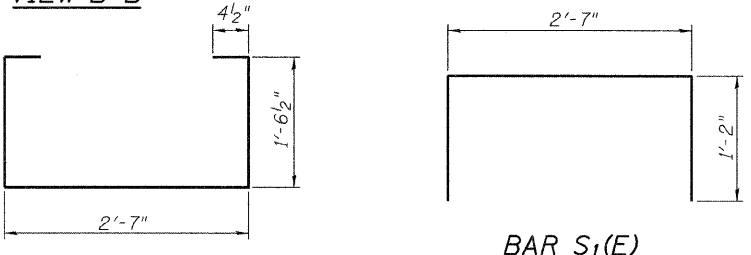
SECTION A-A (Showing dimensions)

**Omit key on exterior face of outside beams

**Rail post anchor devices (Sheet 6 of 10) to be cast into exterior face of outside beams.

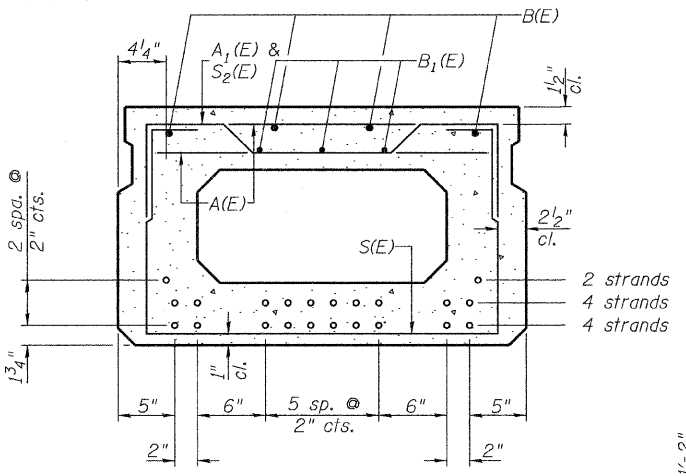


VIEW B-B



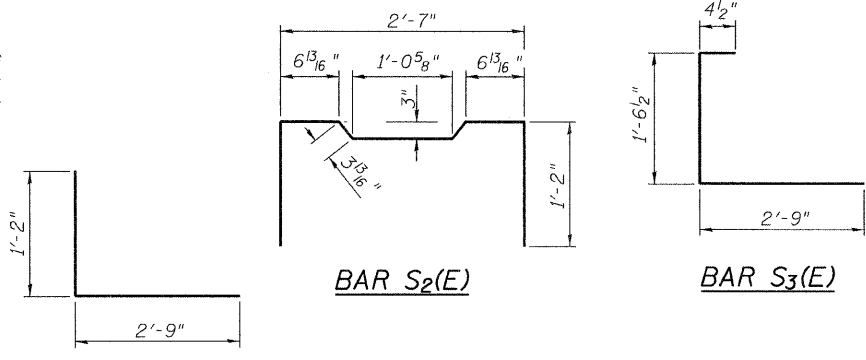
BAR S1(E)

BAR S3(E)



SECTION A-A

10-1/2" Strands Each Strand Stressed to 30,900 Lbs.
4-Strands 1 3/4" up, 4-Strands 3 3/4" up, 2-Strands 5 3/4" up
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.



BAR S2(E)

BAR S4(E)

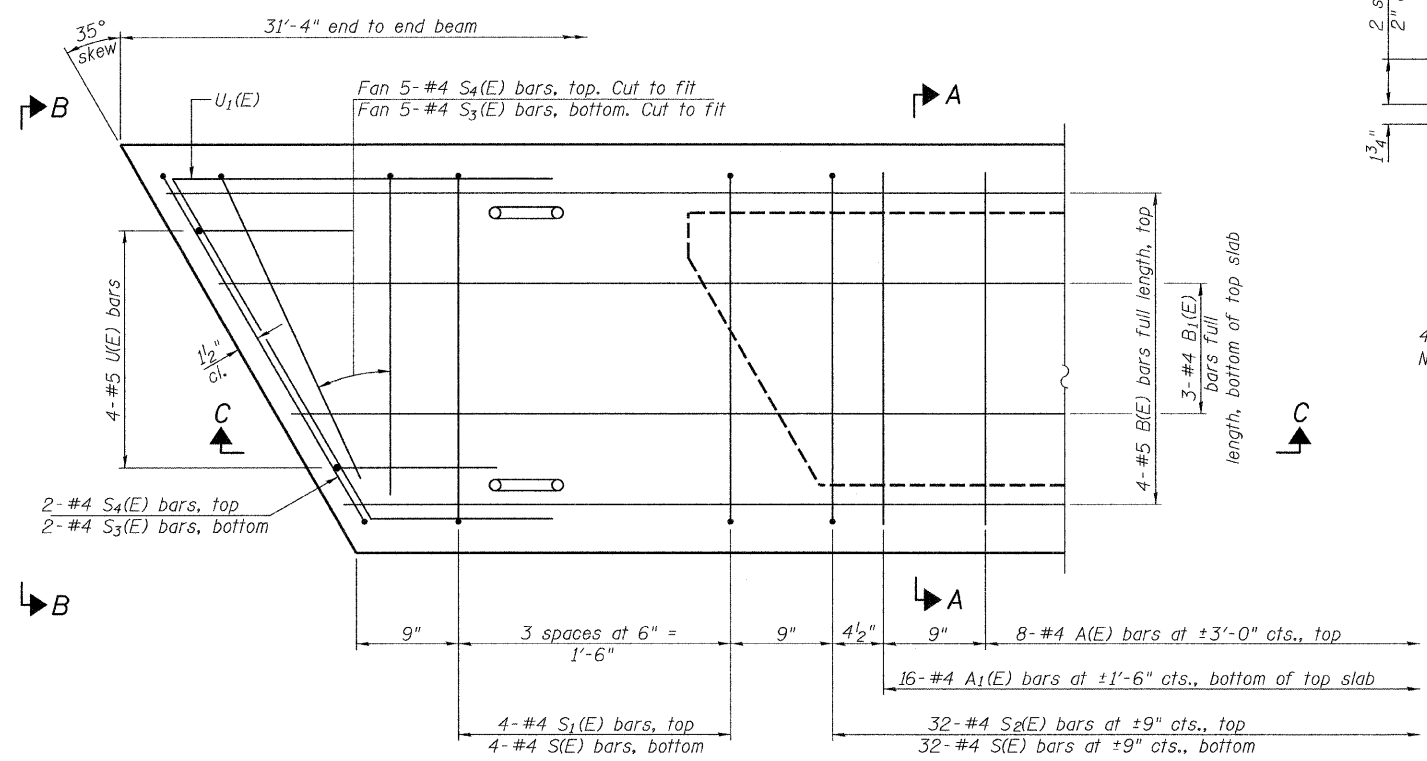
BAR LIST - ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
A(E)	8	#4	2'-7"	—
A1(E)	16	#4	2'-10"	—
B(E)	4	#5	*31'-1"	—
B1(E)	3	#4	*31'-1"	—
S(E)	40	#4	6'-5"	—
S1(E)	8	#4	4'-11"	—
S2(E)	32	#4	5'-2"	—
S3(E)	14	#4	4'-8"	—
S4(E)	14	#4	3'-11"	—
U(E)	8	#5	4'-0"	—
U1(E)	4	#4	7'-4"	—

* Total Length, Lap as necessary

Note: See sheet 2 of 10 for additional details and Bill of Material.

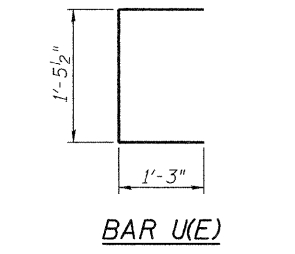


PLAN VIEW

MINIMUM BAR LAP

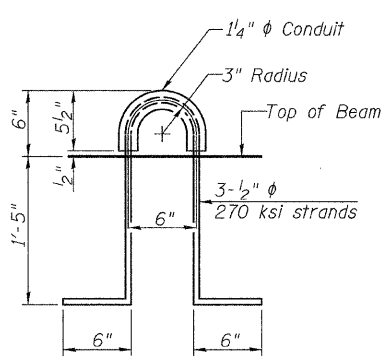
#4 bar = 2'-0"
#5 bar = 2'-6"

Note: Spacing of S1(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.



BAR U(E)

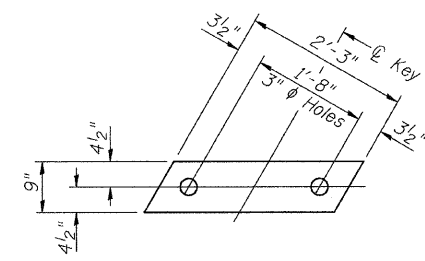
BAR U1(E)



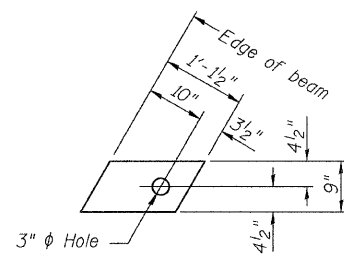
LIFTING LOOP DETAIL

SUPERSTRUCTURE - SPANS 1 & 3
MASON COUNTY
SECTION 08-00035-01-BR
C.H. 19 OVER SLEEPY HOLLOW DITCH

SHEET NO. 3 10 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 19	08-00035-01-BR	MASON	22	9
S.N. 063-3033		CONTRACT NO. 93549			
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-1595(104)		

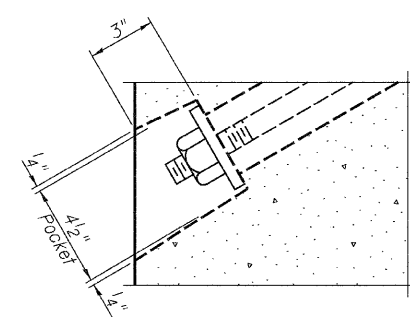


1/2" FABRIC BEARING PAD
(Interior) 18 Required

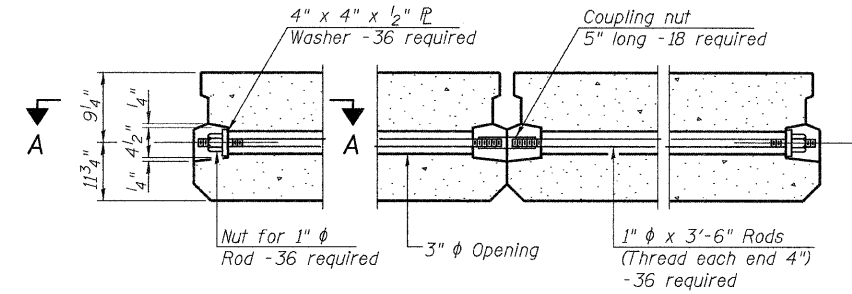


1/2" FABRIC BEARING PAD
(Exterior) 4 Required

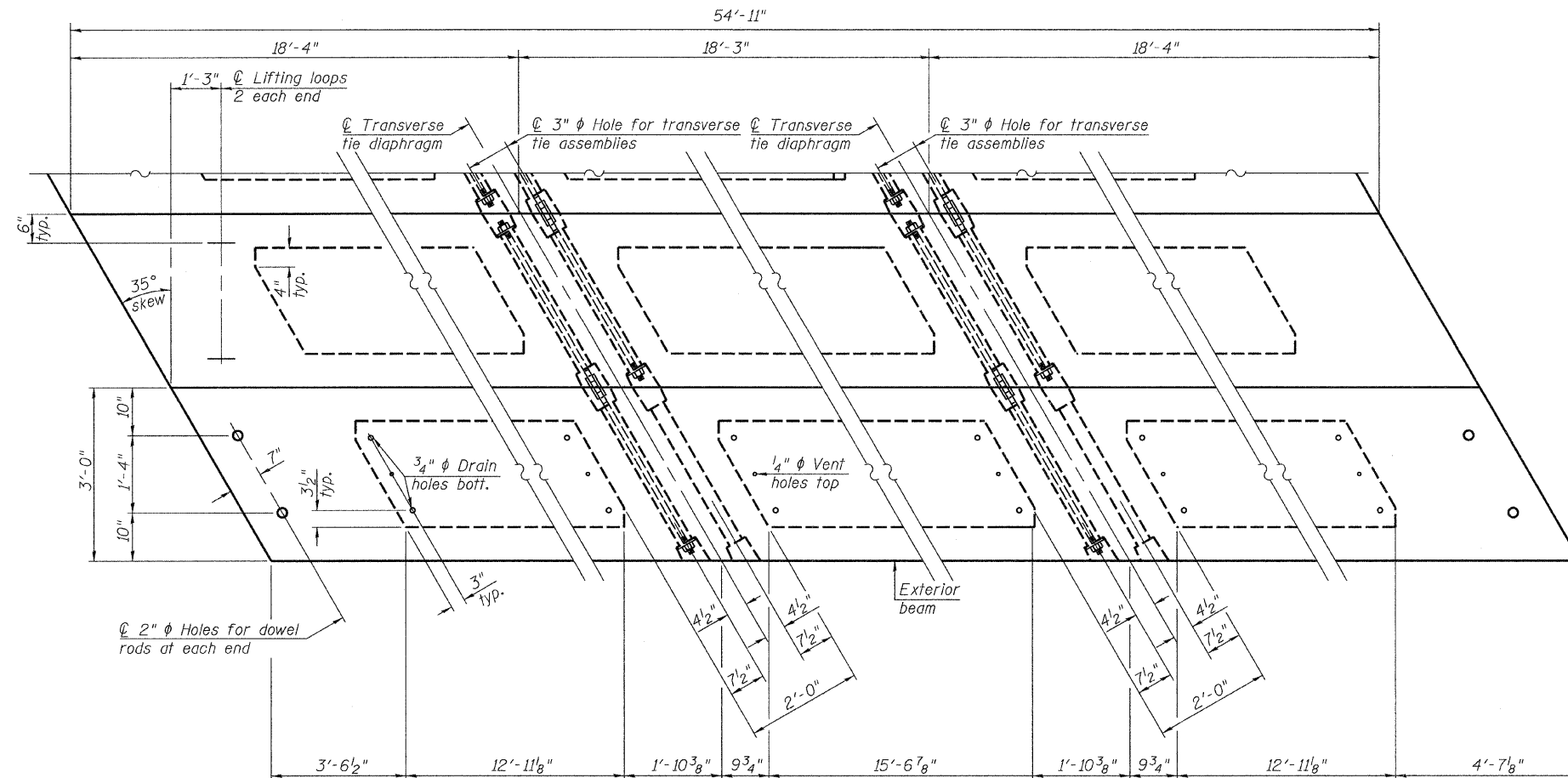
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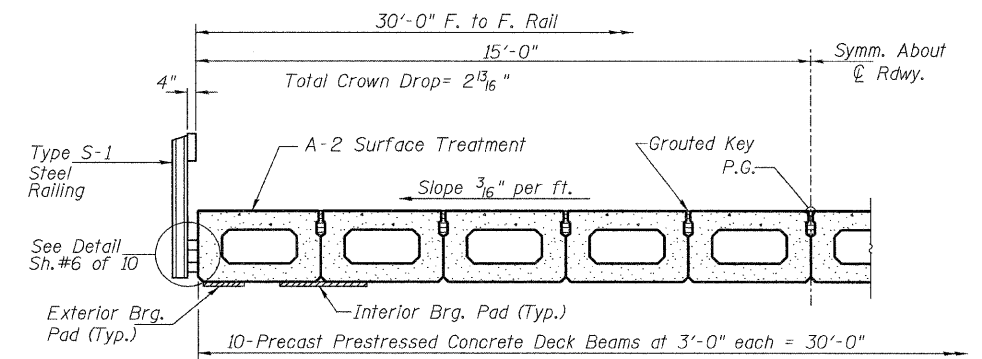
SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY



PLAN VIEW



HALF CROSS SECTION

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
① Precast Prestressed Concrete Deck Beams (21" Depth)	SQ FT	1,648

① See Special Provisions

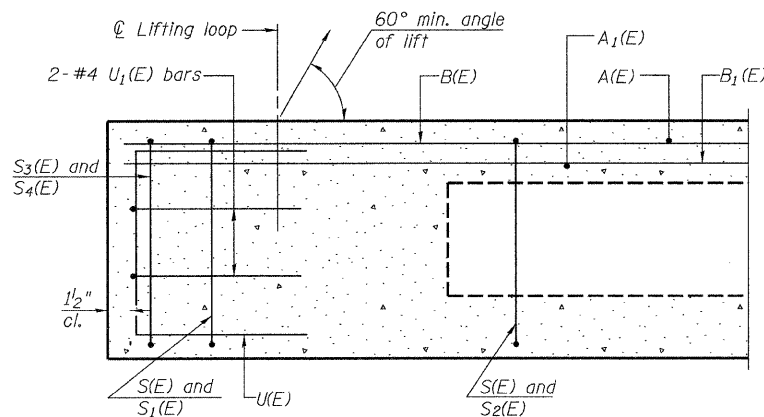
Note: Connect beams in pairs with the transverse tie configuration shown.

NOTES

- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
- 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'cl, shall be 5000 psi.

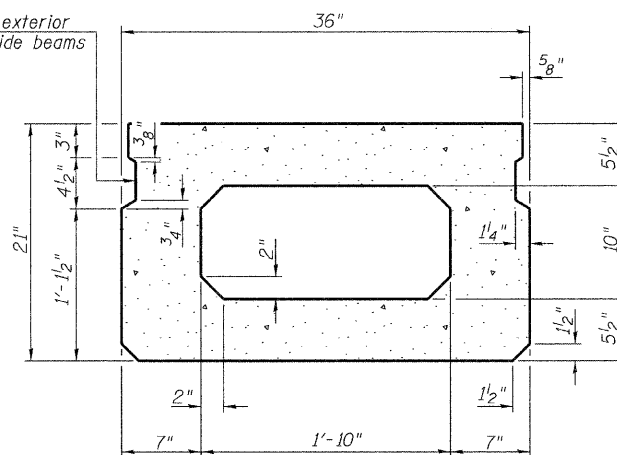
SUPERSTRUCTURE - SPAN 2
MASON COUNTY
SECTION 08-00035-01-BR
C.H. 19 OVER SLEEPY HOLLOW DITCH

SHEET NO. 4	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 19	08-00035-01-BR	MASON	22	10
10 SHEETS	S.N. 063-3033		CONTRACT NO. 93549		
	FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-1595(104)		



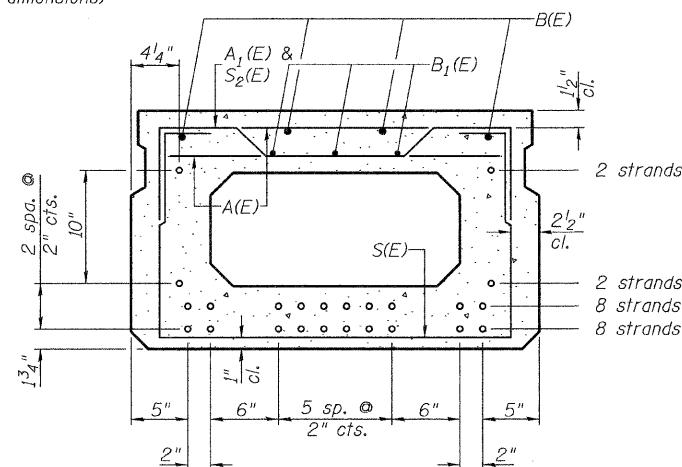
SECTION C-C

**Omit key on exterior face of outside beams



SECTION A-A
(Showing dimensions)

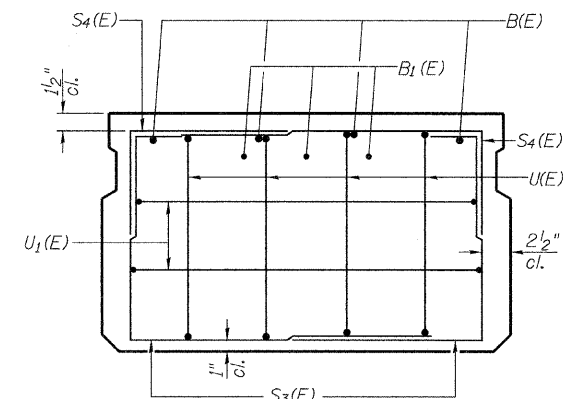
**Rail post anchor devices (Sheet 6 of 10) to be cast into exterior face of outside beams.



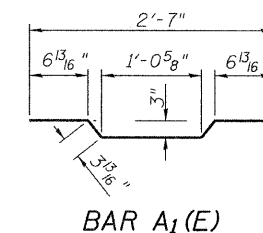
SECTION A-A

20-1/2" ϕ Strands Each Strand Stressed to 30,900 Lbs.
8-Strands 1 3/4" up, 8-Strands 3 3/4" up, 2-Strands 5 3/4" up
2-Strands 1'-3 3/4" up

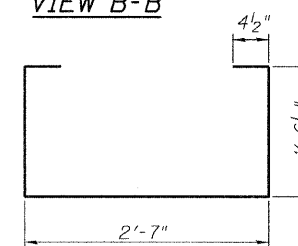
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.



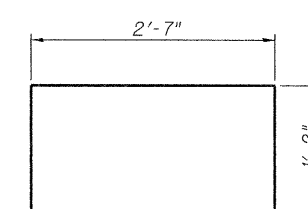
VIEW B-B



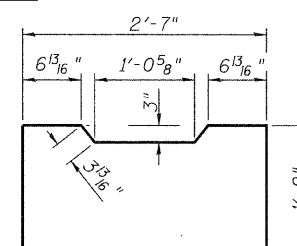
BAR A1(E)



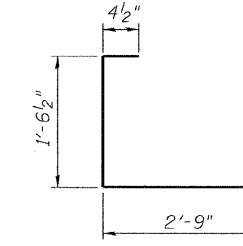
BAR S(E)



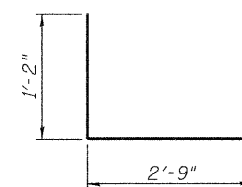
BAR S1(E)



BAR S2(E)



BAR S3(E)



BAR S4(E)

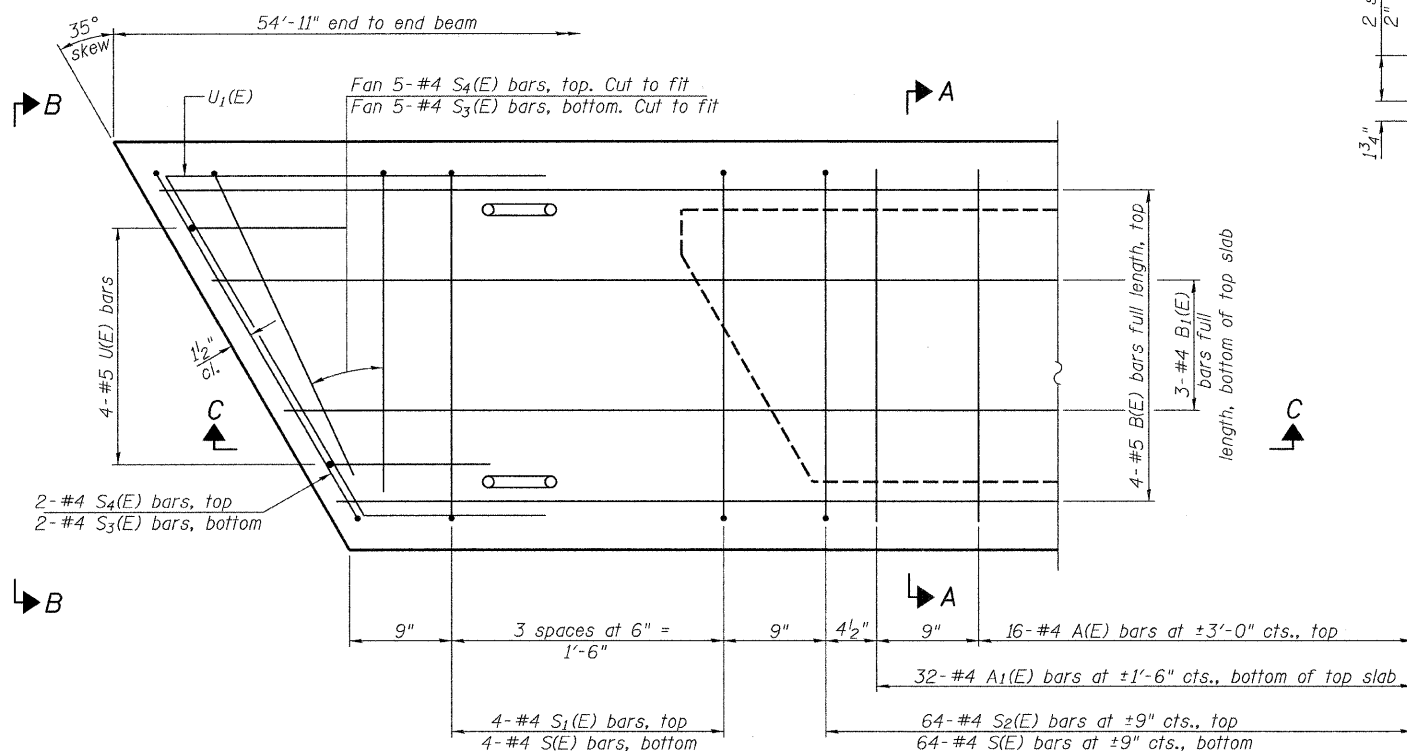
BAR LIST - ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
A(E)	16	#4	2'-7"	—
A1(E)	32	#4	2'-10"	—
B(E)	4	#5	*54'-8"	—
B1(E)	3	#4	*54'-8"	—
S(E)	72	#4	6'-5"	—
S1(E)	8	#4	4'-11"	—
S2(E)	64	#4	5'-2"	—
S3(E)	14	#4	4'-8"	—
S4(E)	14	#4	3'-11"	—
U(E)	8	#5	4'-0"	—
U1(E)	4	#4	7'-4"	—

* Total Length, Lap as necessary

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

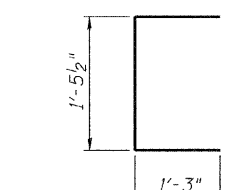


PLAN VIEW

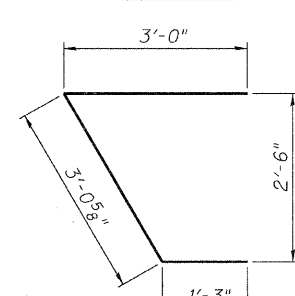
MINIMUM BAR LAP

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

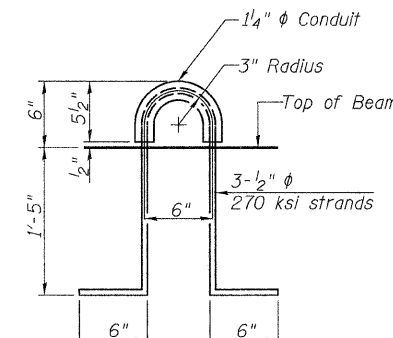
Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



BAR U(E)



BAR U1(E)

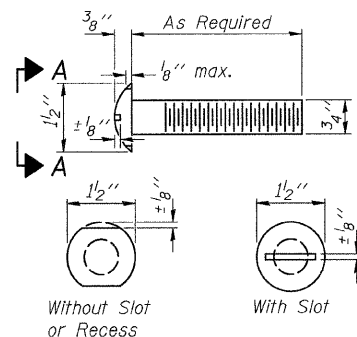


LIFTING LOOP DETAIL

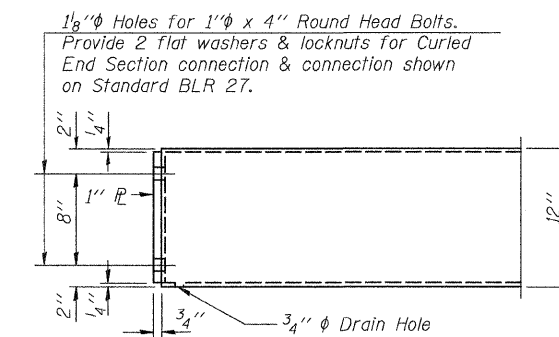
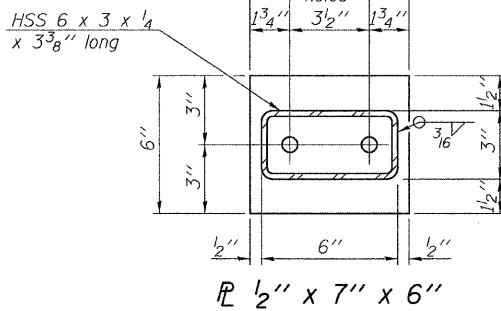
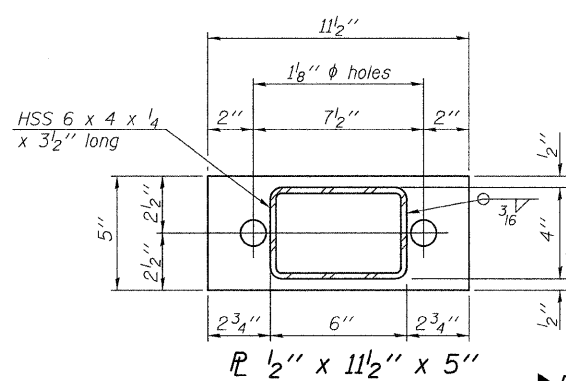
SUPERSTRUCTURE - SPAN 2
MASON COUNTY
SECTION 08-00035-01-BR
C.H. 19 OVER SLEEPY HOLLOW DITCH

SHEET NO. 5 10 SHEETS	ROUTE NO. CH 19	SECTION 08-00035-01-BR	COUNTY MASON	TOTAL SHEETS 22	SHEET NO. 11
	S.N. 063-3033		CONTRACT NO. 93549		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-1595(104)		

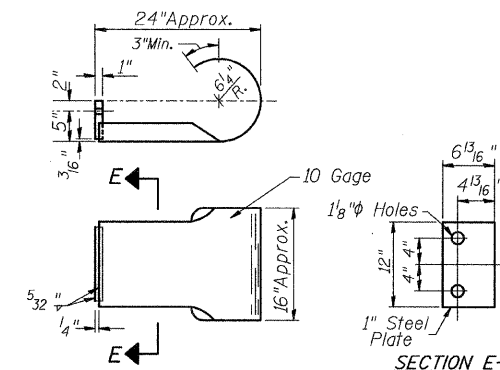
FOR RAIL POST SPACING SEE SH.#7 OF 10



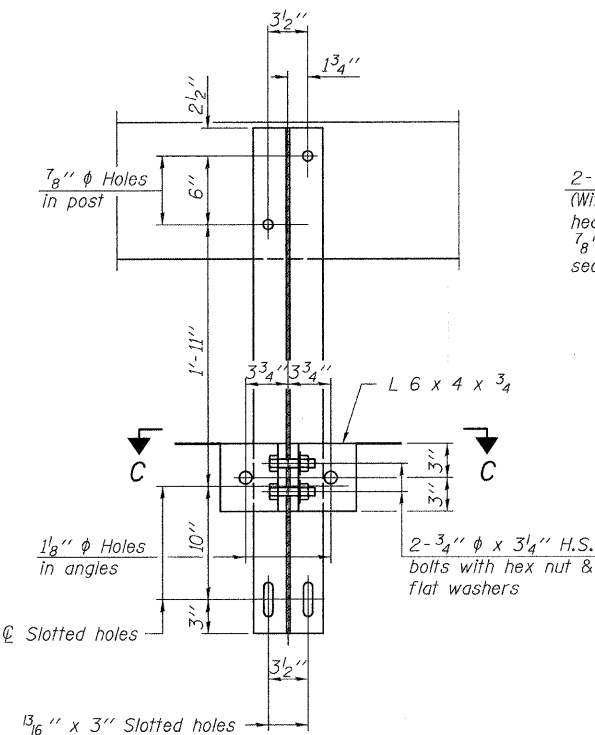
VIEW A-A
ROUND HEAD BOLT



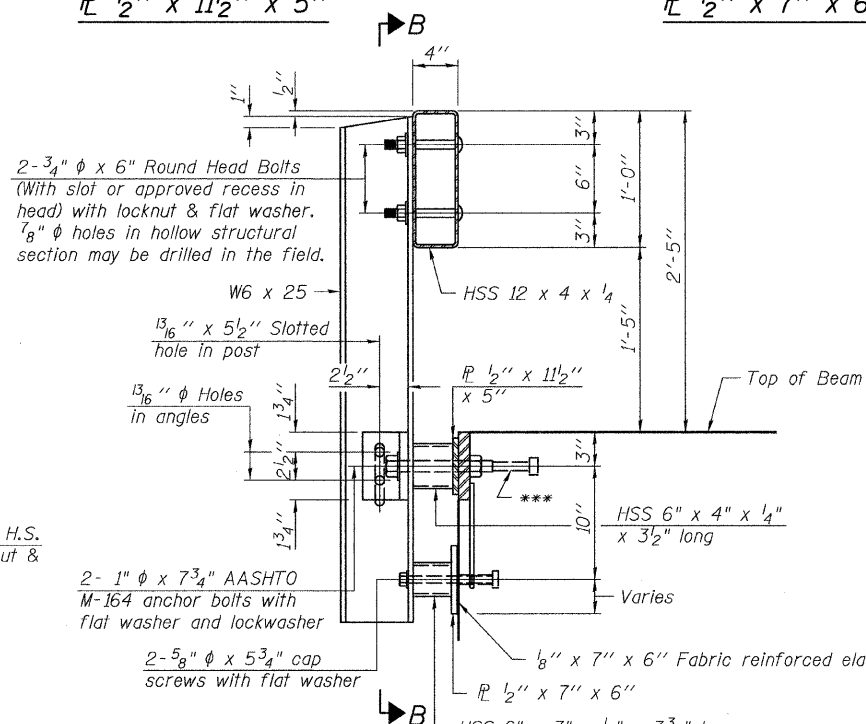
END OF RAIL DETAILS



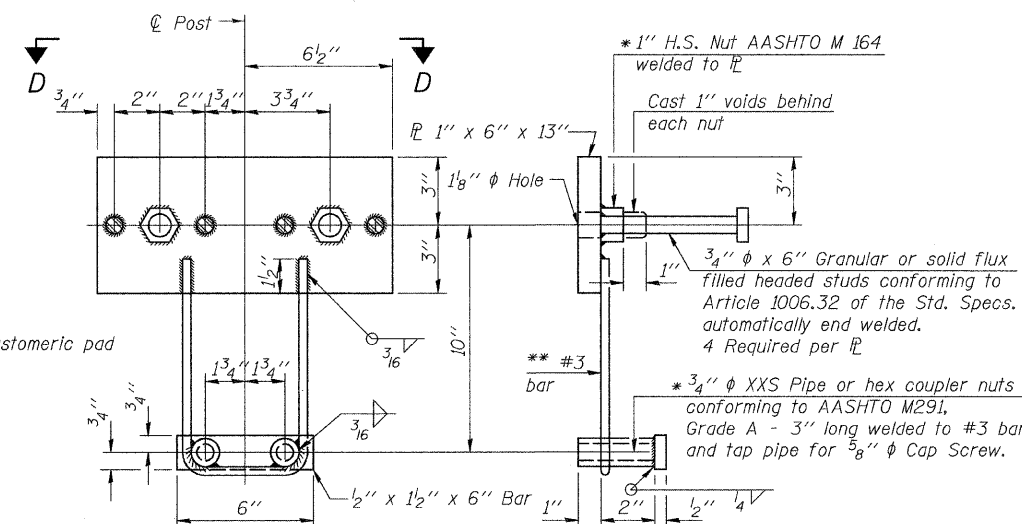
SECTION E-E
CURLED END SECTION
(2 Req'd) Cost Included with Steel Railing, Type S-1.
Terminal Markers - Direct Applied shall be placed on end of each Curled End Section. (S.E. & N.W. Corners)



SECTION B-B

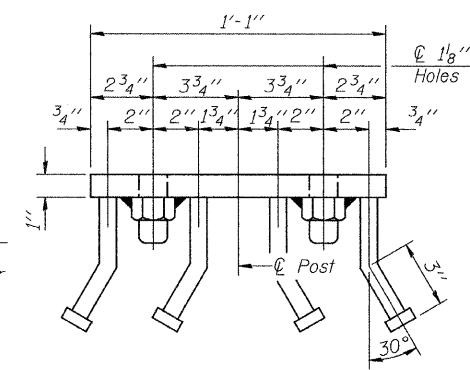


SECTION AT RAILING POST

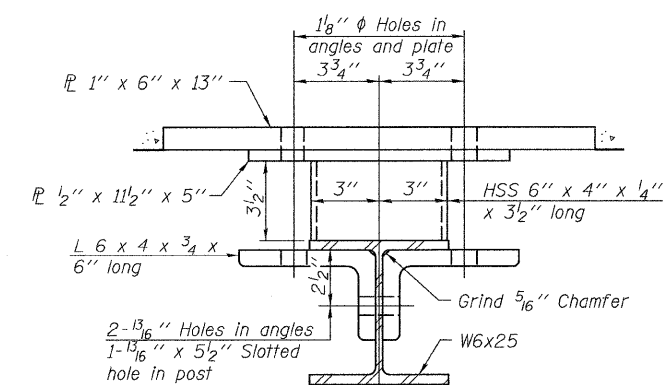


ANCHOR DEVICE

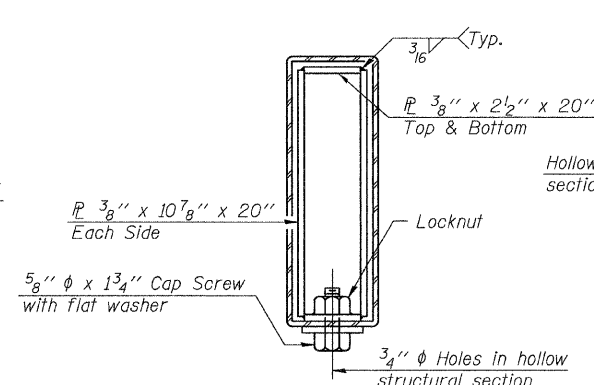
* Threaded areas shall be plugged or blocked off during casting of beam.



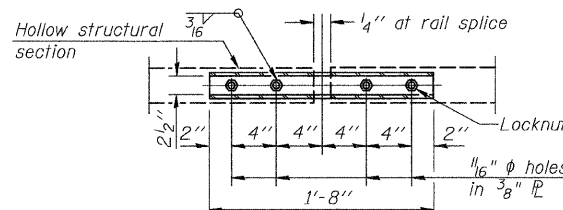
VIEW D-D



SECTION C-C



SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE P
TYPICAL

** 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 inch.

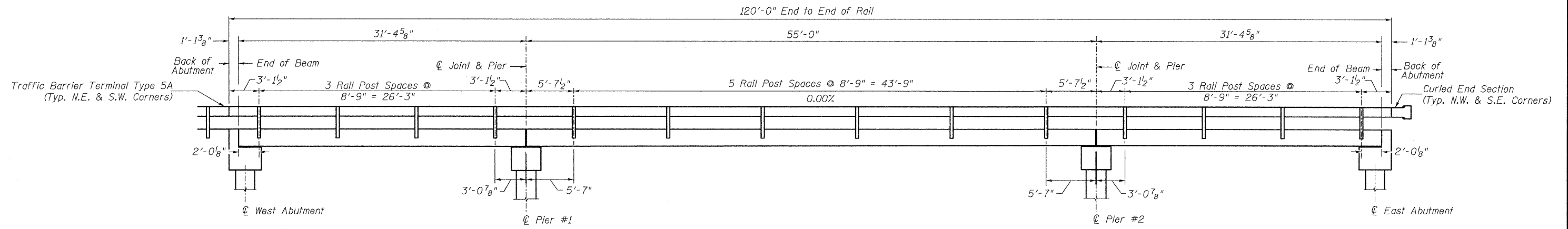
BILL OF MATERIAL

Item	Unit	Quantity
1 Steel Railing, Type S-1	FOOT	240

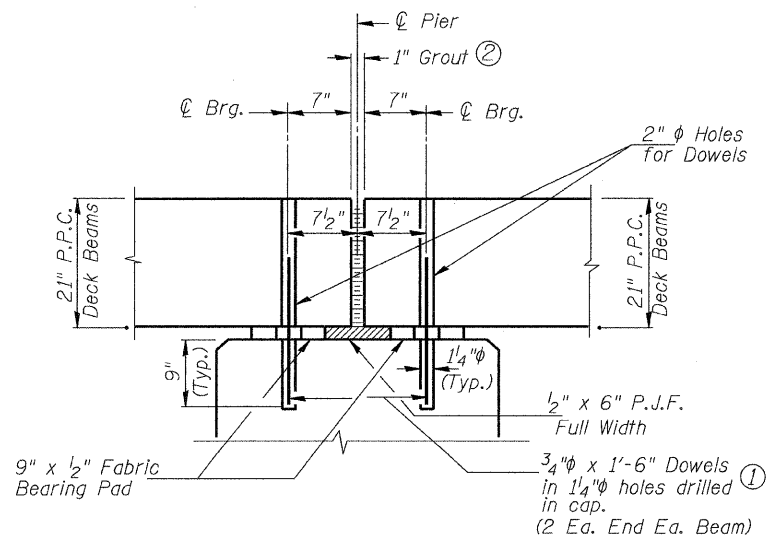
① See Special Provisions

STEEL RAIL, TYPE S-1
MASON COUNTY
SECTION 08-00035-01-BR
C.H. 19 OVER SLEEPY HOLLOW DITCH

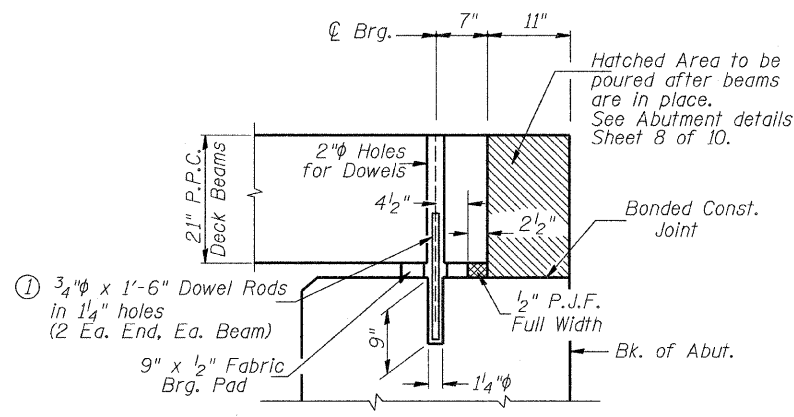
SHEET NO. 6	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10 SHEETS	CH 19	08-00035-01-BR	MASON	22	12
		S.N. 063-3033	CONTRACT NO. 93549		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-1595(104)		



RAIL POST SPACING



SECTION THRU PIERS
(At Right Angles)

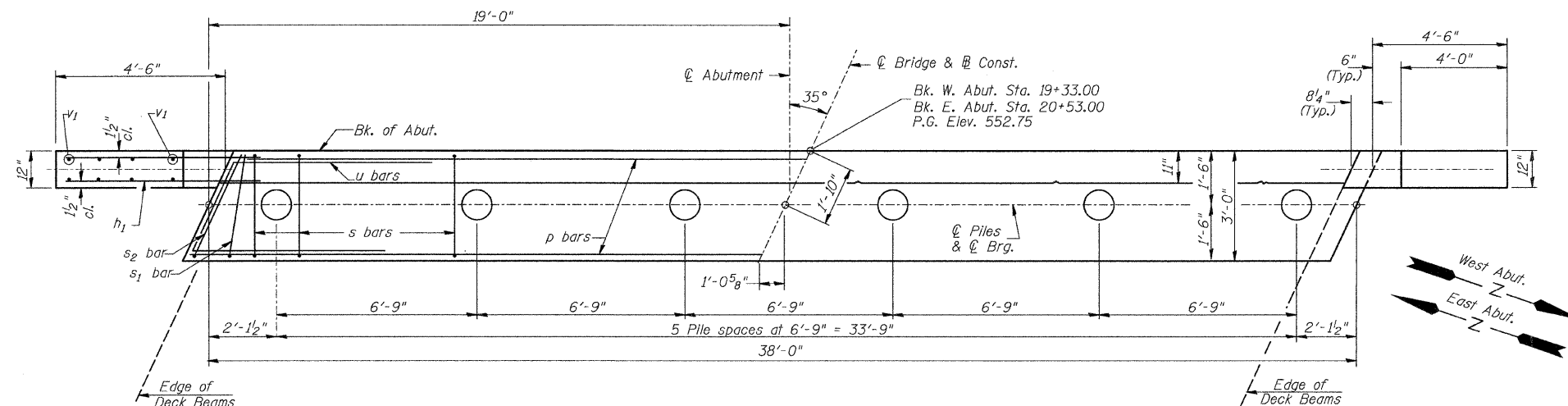


SECTION THRU ABUTMENTS
(At Right Angles)

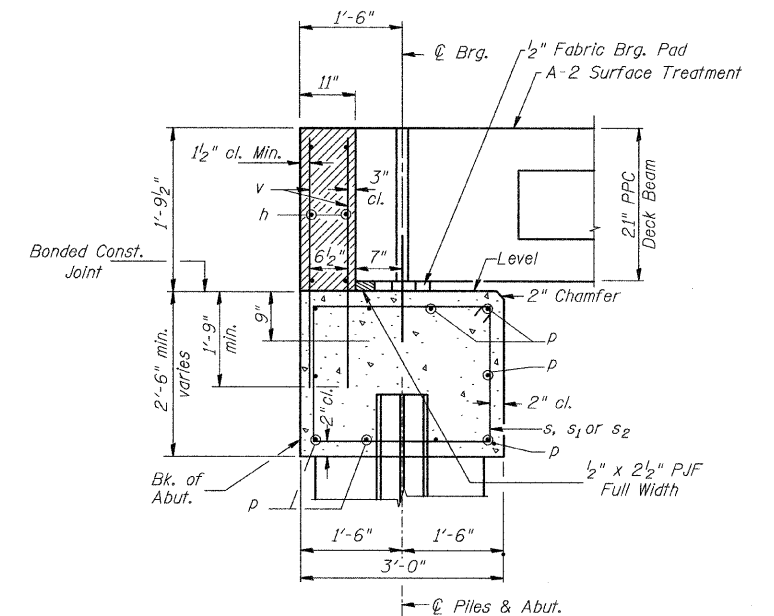
- ① Dowel Rods to be grouted after beams are in place and allowed to cure (Min. 24 hr.) prior to grouting the shear keys.
- ② 1" Joint shall be packed with a very dry mix of 2:1 sand and P.C. mortar. 1" Dimension may vary plus or minus to accommodate tolerance in beam lengths.

RAIL POST SPACING AND
SUPERSTRUCTURE DETAILS
MASON COUNTY
SECTION 08-00035-01-BR
C.H. 19 OVER SLEEPY HOLLOW DITCH

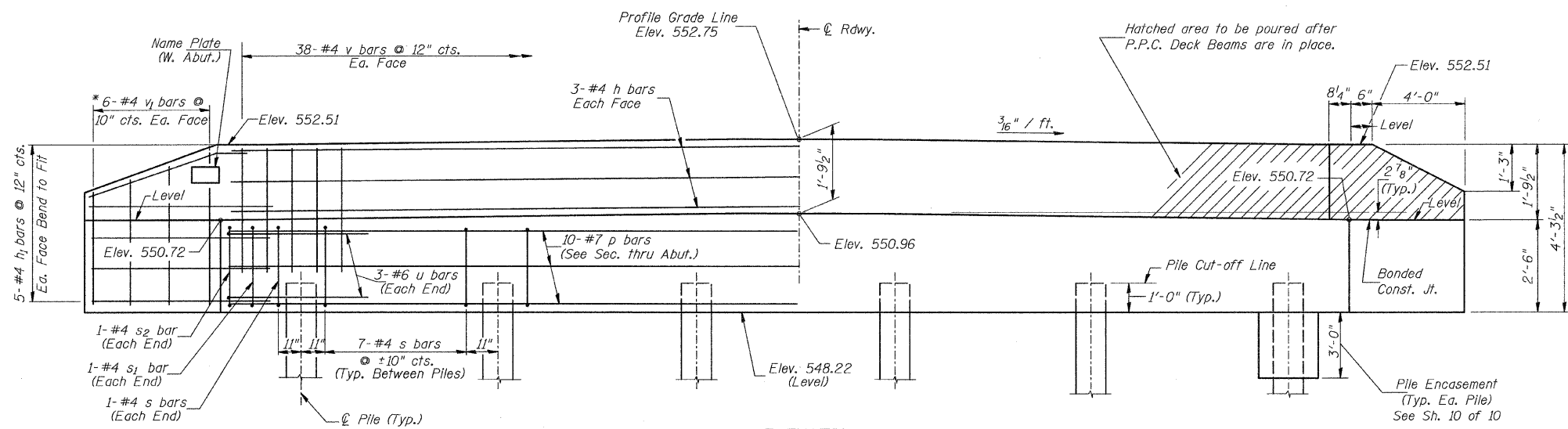
SHEET NO. 7 10 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 19	08-00035-01-BR	MASON	22	13
	S.N. 063-3033		CONTRACT NO. 93549		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-1595(104)		



PLAN



SECTION THRU ABUT.
(At Right Angles)



ELEVATION
(Front View of Abutment)

TWO ABUTMENTS
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h	12	#4	37'-9"	—
h1	40	#4	6'-6"	—
p	20	#7	37'-9"	—
s	74	#4	10'-5"	□
s1	4	#4	7'-10"	□
s2	4	#4	8'-8"	□
u	12	#6	12'-2"	△
v	152	#4	3'-6"	—
v1	24	#4	6'-9"	—
Concrete Structures		CU YD	28.9	
Reinforcement Bars		POUND	3,260	
Structure Excavation		CU YD	80	
Name Plates		EACH	1	
Furnishing Metal Shell Piles 12"x0.250"		FOOT	350	
Driving Piles		FOOT	350	
Test Pile Metal Shells		EACH	2	
Concrete Encasement		CU YD	3.1	

① See Special Provisions

DESIGN STRESSES

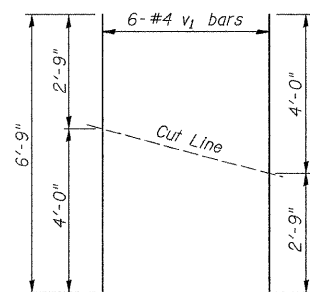
$f'_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i.

PILE DATA

Type & Size: Metal Shell 12"x0.250"
Nominal Required Bearing: 140 kips
Factored Resistance Available: 75 kips
Est. Length: 35' Each Abutment
No. Req'd.: 12 (Includes 1 Test Pile at Each Abut.)

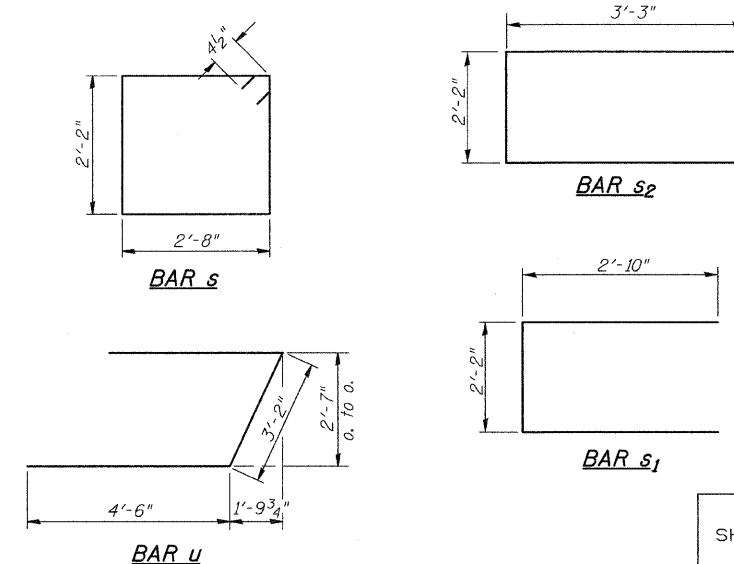
NOTES

- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
- Reinforcement bars shall conform to ASTM A706 Grade 60.



BAR CUTTING DIAGRAM

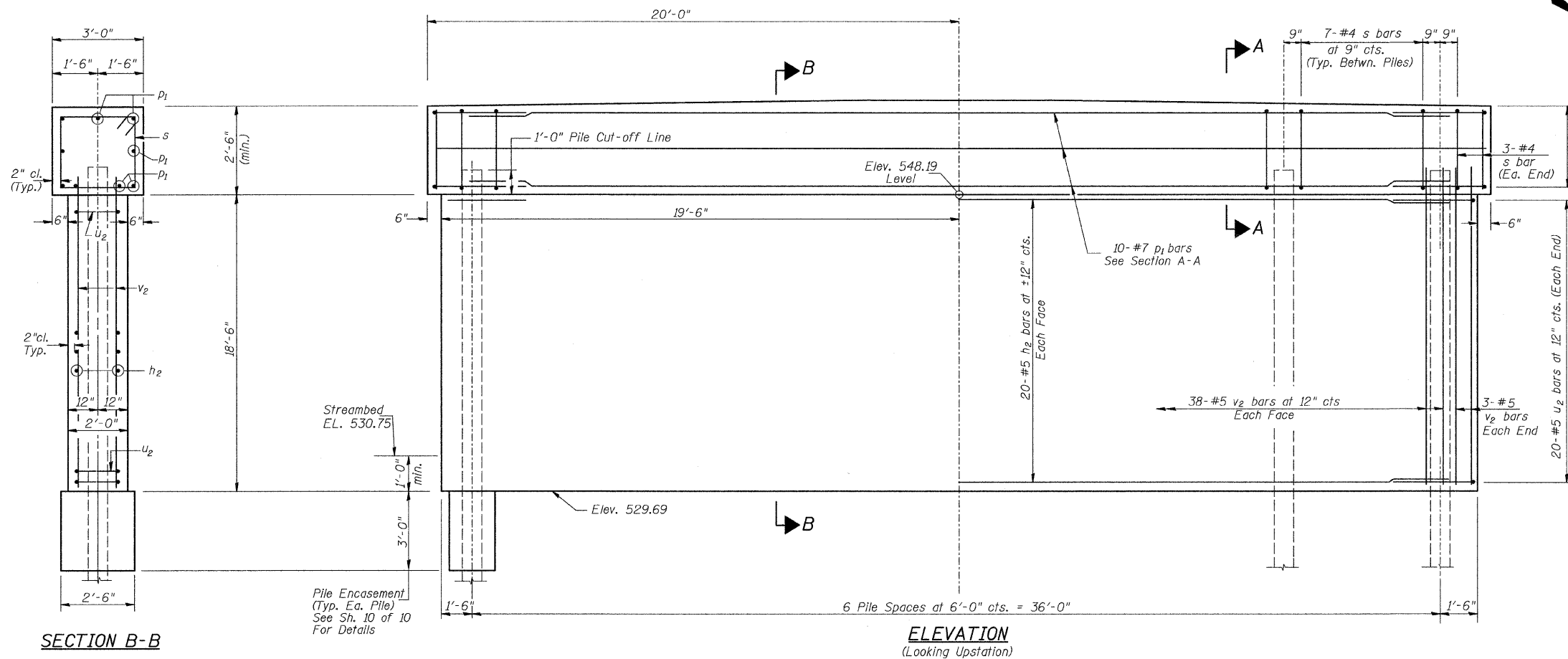
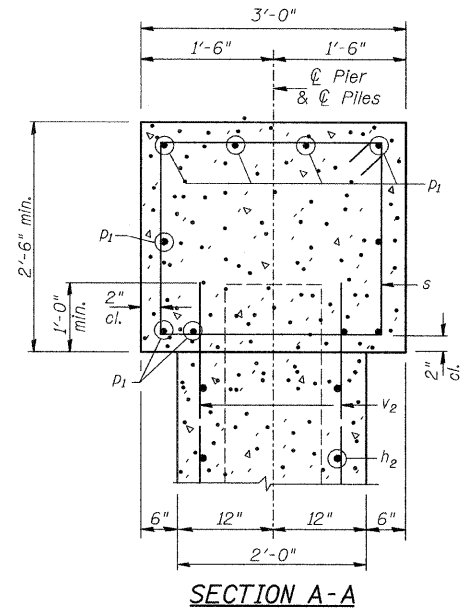
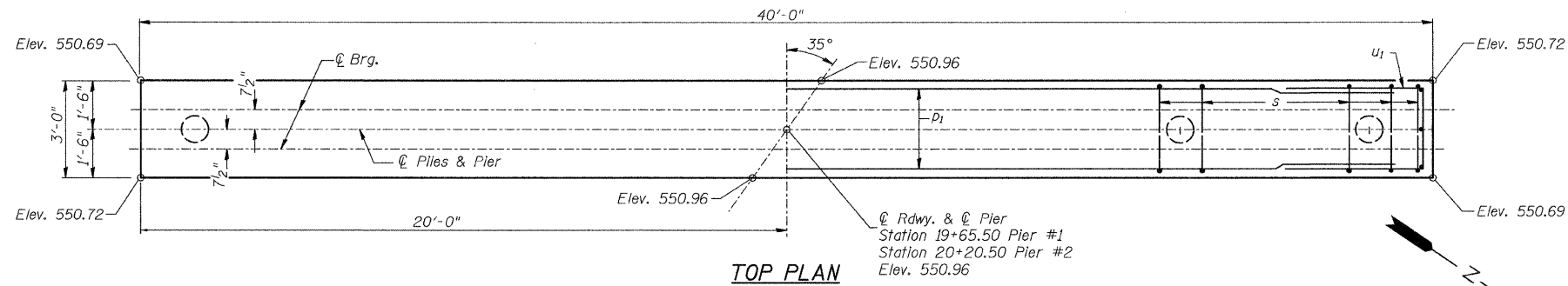
*Order v1 bars full length. Cut as shown and use remainder of bars in opposite face.



ABUTMENTS
MASON COUNTY
SECTION 08-00035-01-BR
C.H. 19 OVER SLEEPY HOLLOW DITCH

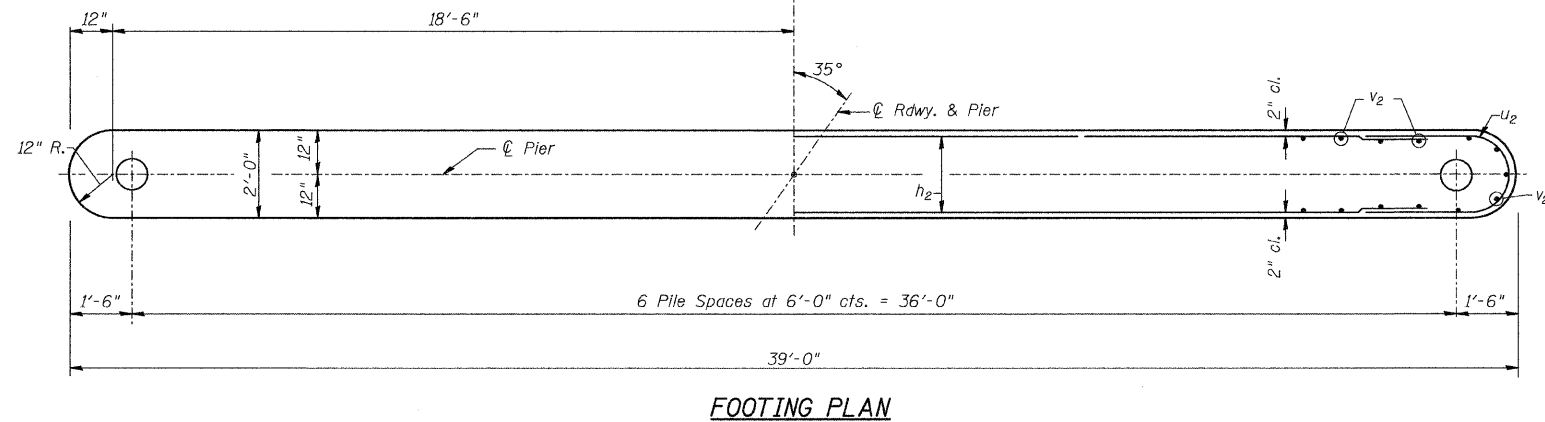
SHEET NO. 8 10 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 19	08-00035-01-BR	MASON	22	14
	S.N. 063-3033		CONTRACT NO. 93549		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-1595(104)		

NOTES:
All edges shall have standard 3/4" chamfer.



SECTION B-B

ELEVATION
(Looking Upstation)



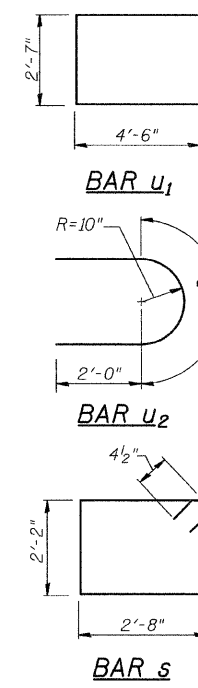
FOOTING PLAN

PILE DATA
Type & Size: Metal Shell 12"x0.250"
Nominal Required Bearing: 330 kips
Factored Resistance Available: 180 kips
Est. Length: 65' Each Pier
No. Req'd.: 14 (Includes 1 Test Pile at Each Pier)

TWO PIERS
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE	
h ₂	80	#5	36'-8"	—	
p ₁	20	#7	39'-9"	—	
s	96	#4	10'-5"	□	
u ₁	12	#6	11'-7"	□	
u ₂	80	#5	6'-8"	⌒	
v ₂	164	#5	19'-4"	—	
Concrete Structures				CU YD	121.1
Reinforcement Bars				POUND	9,420
Structure Excavation				CU YD	160
Furnishing Metal Shell Piles 12"x0.250"				FOOT	780
① Driving Piles				FOOT	780
① Test Pile Metal Shells				EACH	2
Concrete Encasement				CU YD	6.4
① Underwater Structure Excavation Protection, Location 1				EACH	1
① Underwater Structure Excavation Protection, Location 2				EACH	1

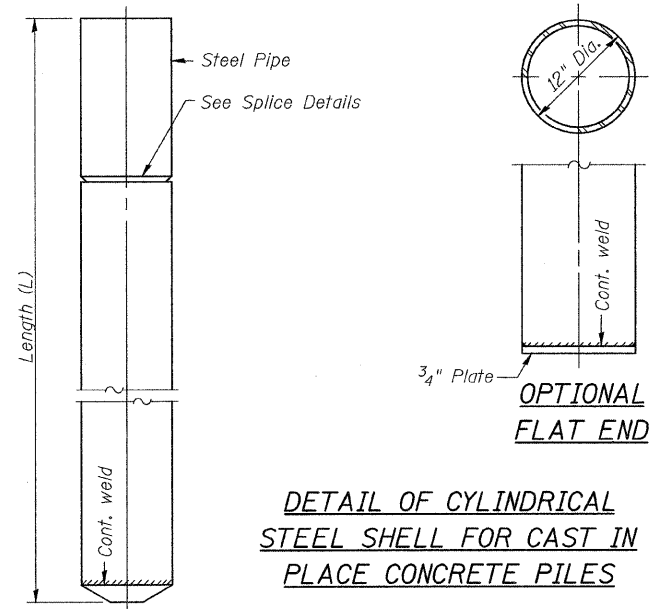
① See Special Provisions



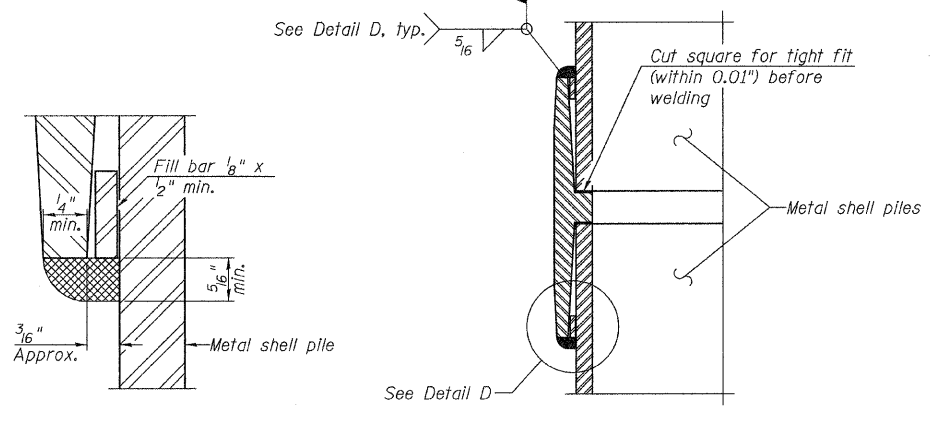
PIERS
MASON COUNTY
SECTION 08-00035-01-BR
C.H. 19 OVER SLEEPY HOLLOW DITCH

SHEET NO. 9 10 SHEETS	ROUTE NO. CH 19	SECTION 08-00035-01-BR	COUNTY MASON	TOTAL SHEETS 22	SHEET NO. 15
	S.N. 063-3033		CONTRACT NO. 93549		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-1595(104)		

Notes: Driving and bearing ends of pipe shall be cut square. The thickness of the shells shall be 0.25 inches with a tolerance of 5%. The shells shall be according to Article 1006.05(a) of the Standard Specifications, and shall be ASTM A252 Grade 3.

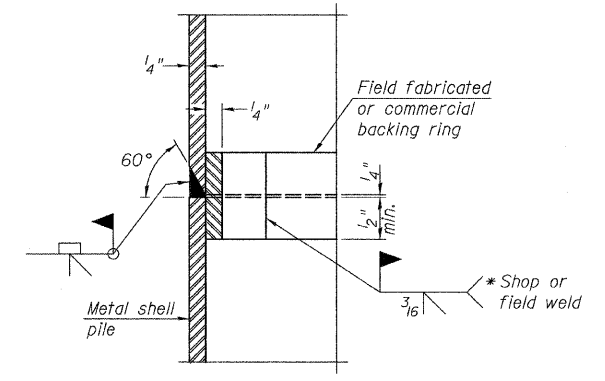


DETAIL OF CYLINDRICAL STEEL SHELL FOR CAST IN PLACE CONCRETE PILES

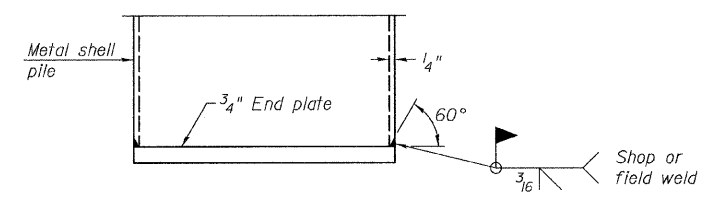


WELDED COMMERCIAL SPLICE

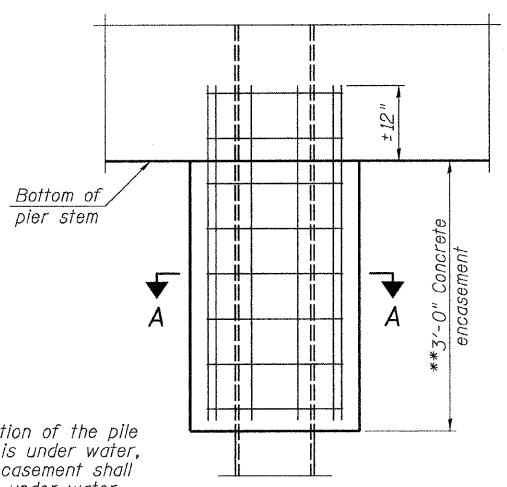
Notes:
The $\frac{1}{8}$ " x $\frac{1}{2}$ " min. fill bar may be constructed of 2 bars with a $\frac{1}{8}$ " max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.



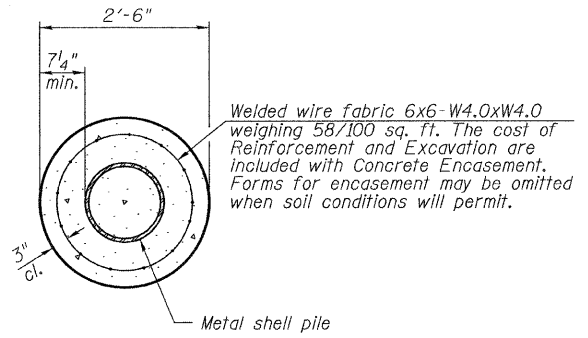
COMPLETE PENETRATION WELD SPLICE
* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



END PLATE ATTACHMENT



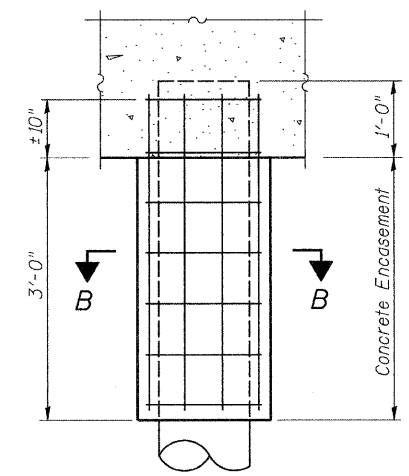
ELEVATION



SECTION A-A

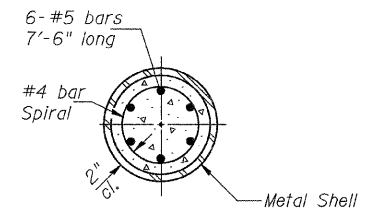
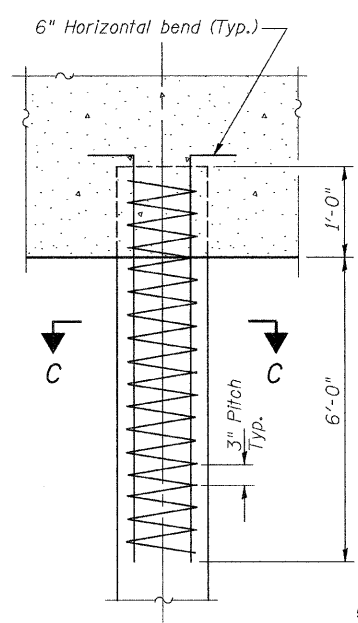
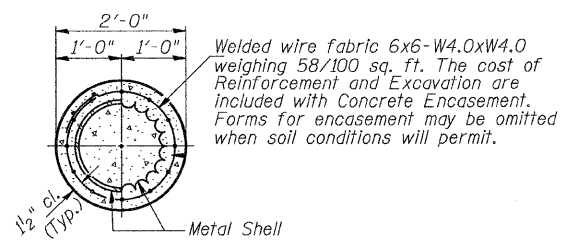
** If a portion of the pile encasement is under water, Concrete Encasement shall be tremmed under water into forms as necessary.

DETAIL OF PROTECTION FOR METAL SHELLS AT PIER



SECTION B-B

DETAIL OF METAL SHELL PILE ENCASEMENT AT ABUTMENTS



SECTION C-C

The cost of Reinforcement is included with Furnishing Metal Shell Piles 12"x0.250".

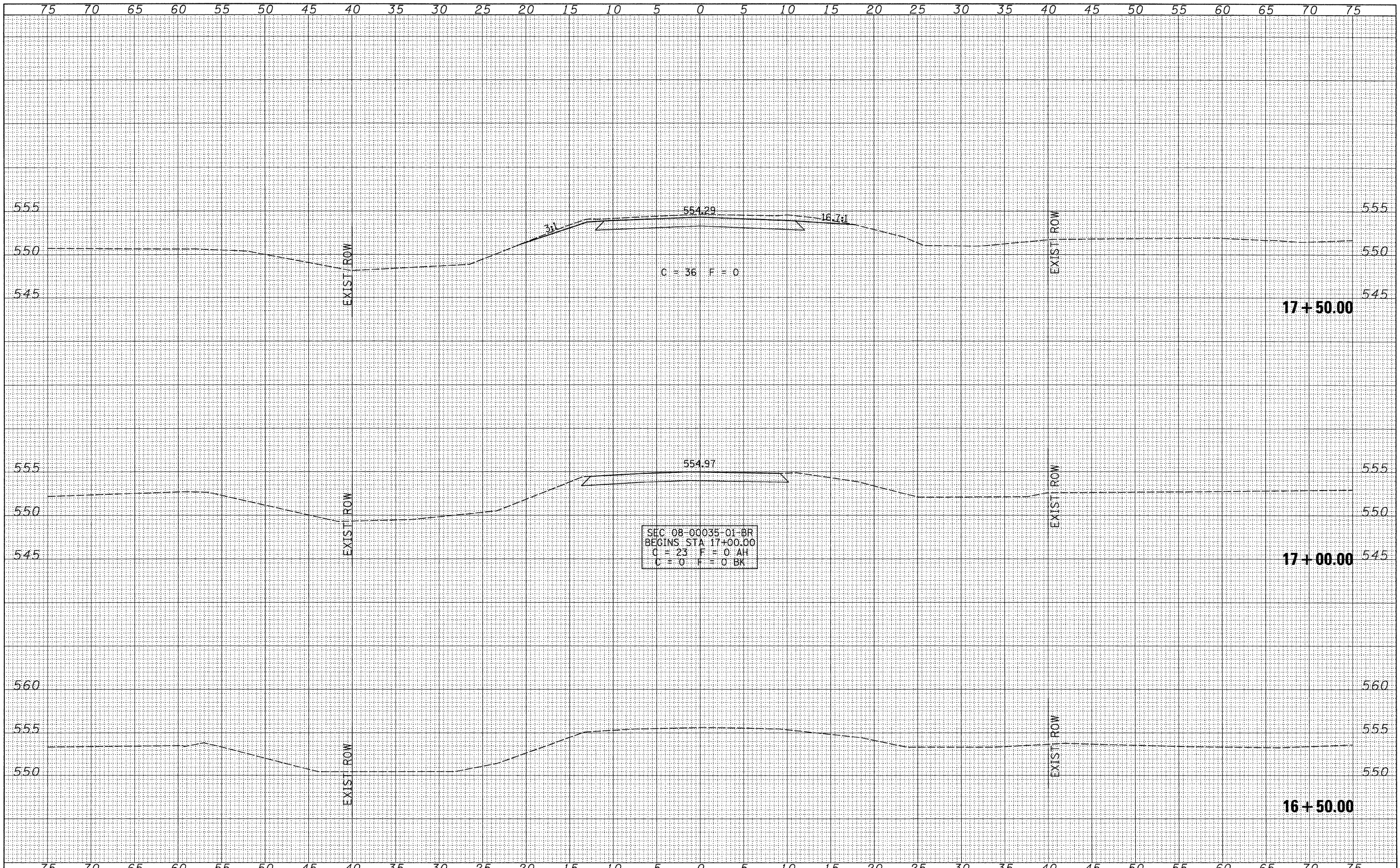
DETAIL OF REINFORCEMENT FOR METAL SHELLS AT ABUTMENTS

**METAL SHELL PILE DETAILS
MASON COUNTY
SECTION 08-00035-01-BR
C.H. 19 OVER SLEEPY HOLLOW DITCH**

SHEET NO. 10 10 SHEETS	ROUTE NO. CH 19	SECTION 08-00035-01-BR	COUNTY MASON	TOTAL SHEETS 22	SHEET NO. 16
	S.N. 063-3033		CONTRACT NO. 93549		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-1595(104)		

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

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



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	DATE -	REVISED -

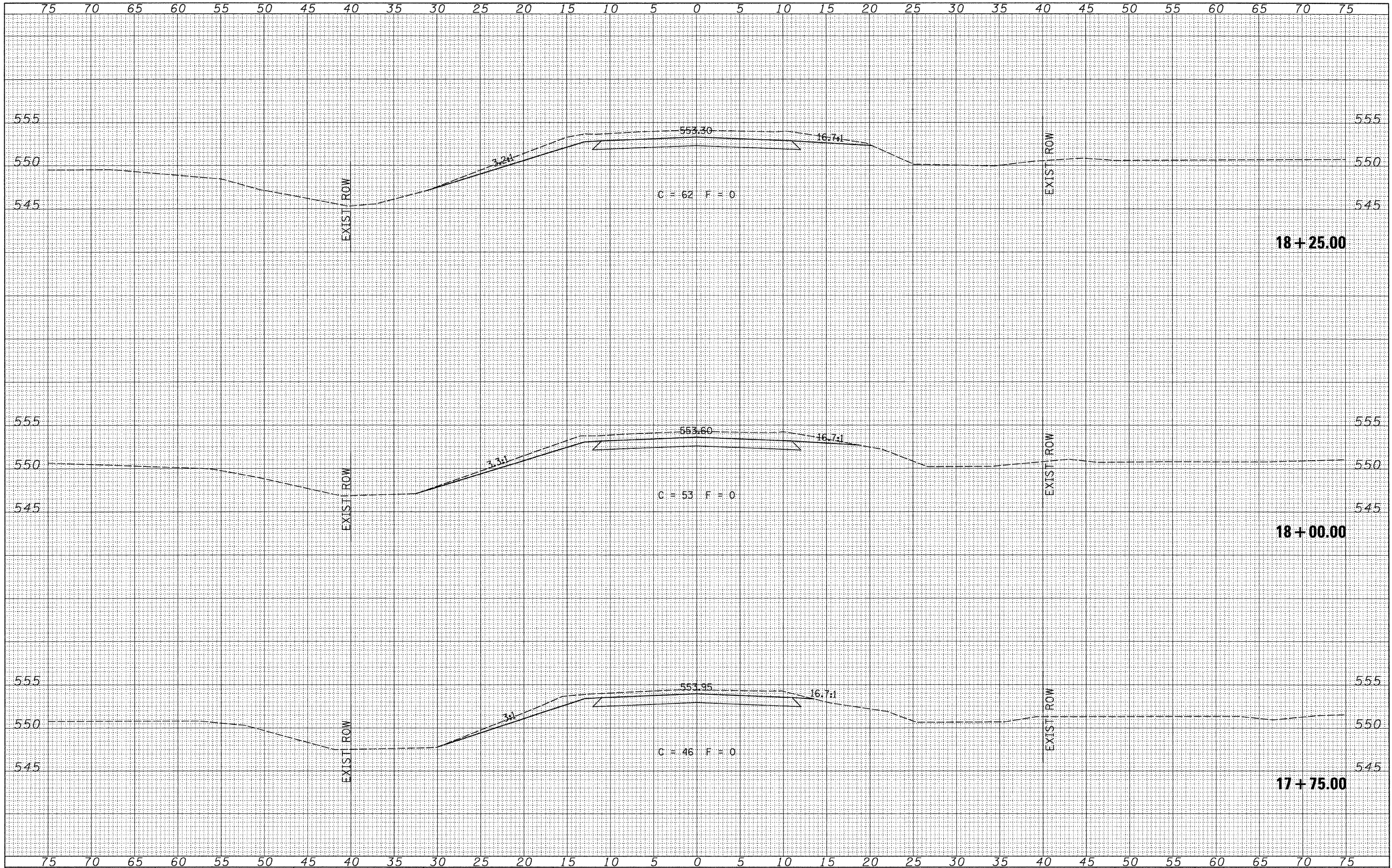
**MASON COUNTY
 COUNTY HIGHWAY 19 OVER
 SLEEPY HOLLOW DITCH**

CROSS SECTIONS	
F.A.S. RTE.	SECTION
1595	08-00035-01-BR
COUNTY	MASON
TOTAL SHEETS	22
SHEET NO.	17
CONTRACT NO. 93549	
SCALE: 1"=5'	SHEET NO. 1 OF 6 SHEETS
STA. 16+50.00	TO STA. 17+50.00

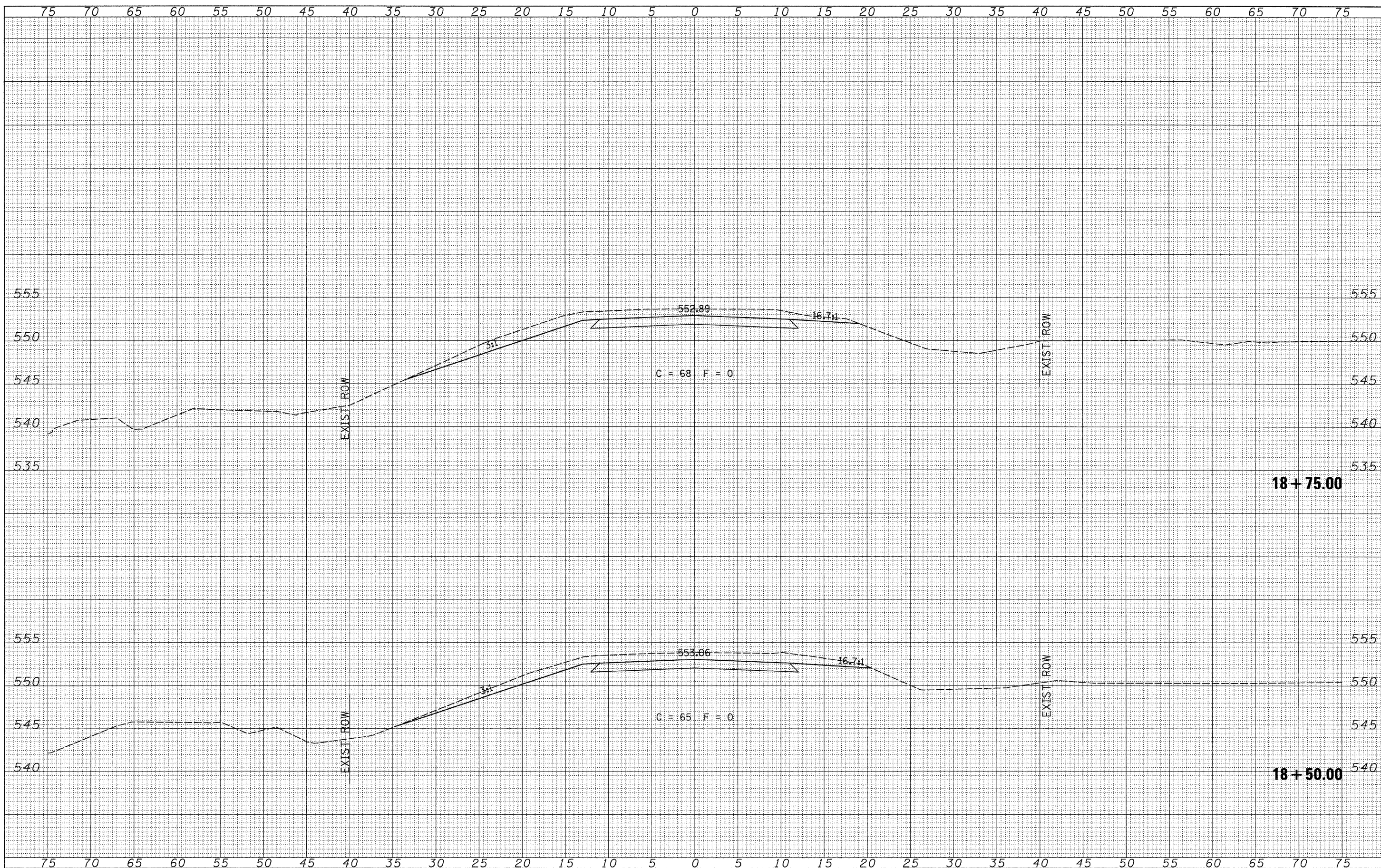
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1595	08-00035-01-BR	MASON	22	17
CONTRACT NO. 93549				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BR5-1595(104)				

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	DATE
NO.	AREAS CHECKED

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	DATE
NO.	AREAS CHECKED



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	PLLOT SCALE = 5.00' / IN.	CHECKED -	REVISED -		SCALE: 1"=5'	SHEET NO. 2 OF 6 SHEETS	STA. 17+75.00 TO STA. 18+25.00	CONTRACT NO. 93549				
	PLLOT DATE = 3/4/2011	DATE -	REVISED -		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-1595(104)							



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

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	DATE
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**MASON COUNTY
 COUNTY HIGHWAY 19 OVER
 SLEEPY HOLLOW DITCH**

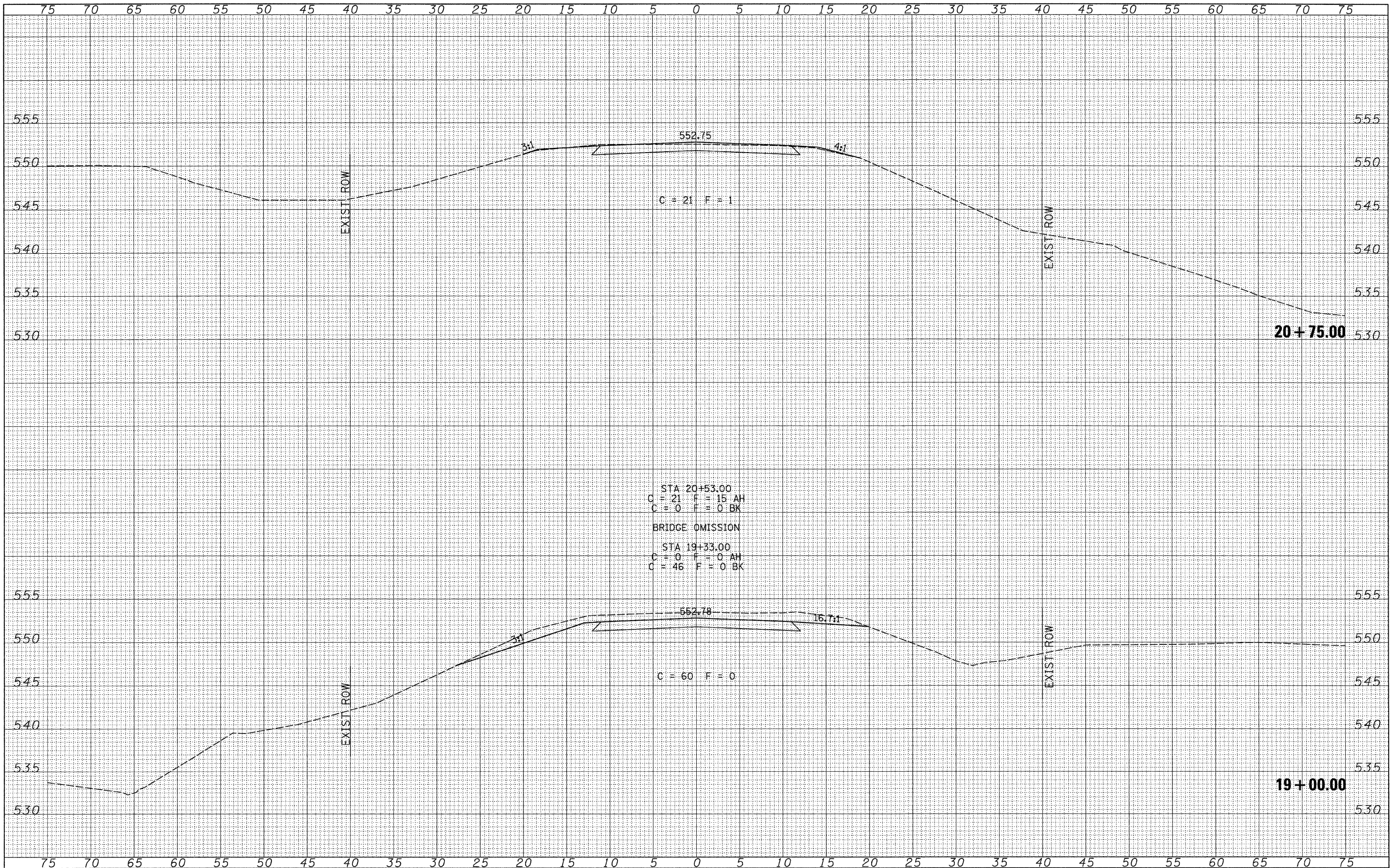
CROSS SECTIONS

SCALE: 1"=5' SHEET NO. 3 OF 6 SHEETS STA. 18+50.00 TO STA. 18+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1595	08-00035-01-BR	MASON	22	19
CONTRACT NO. 93549				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-1595(04)				

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

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



STA 20+53.00
 C = 21 F = 15 AH
 C = 0 F = 0 BK
 BRIDGE OMISSION
 STA 19+33.00
 C = 0 F = 0 AH
 C = 46 F = 0 BK

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	DATE -	REVISED -

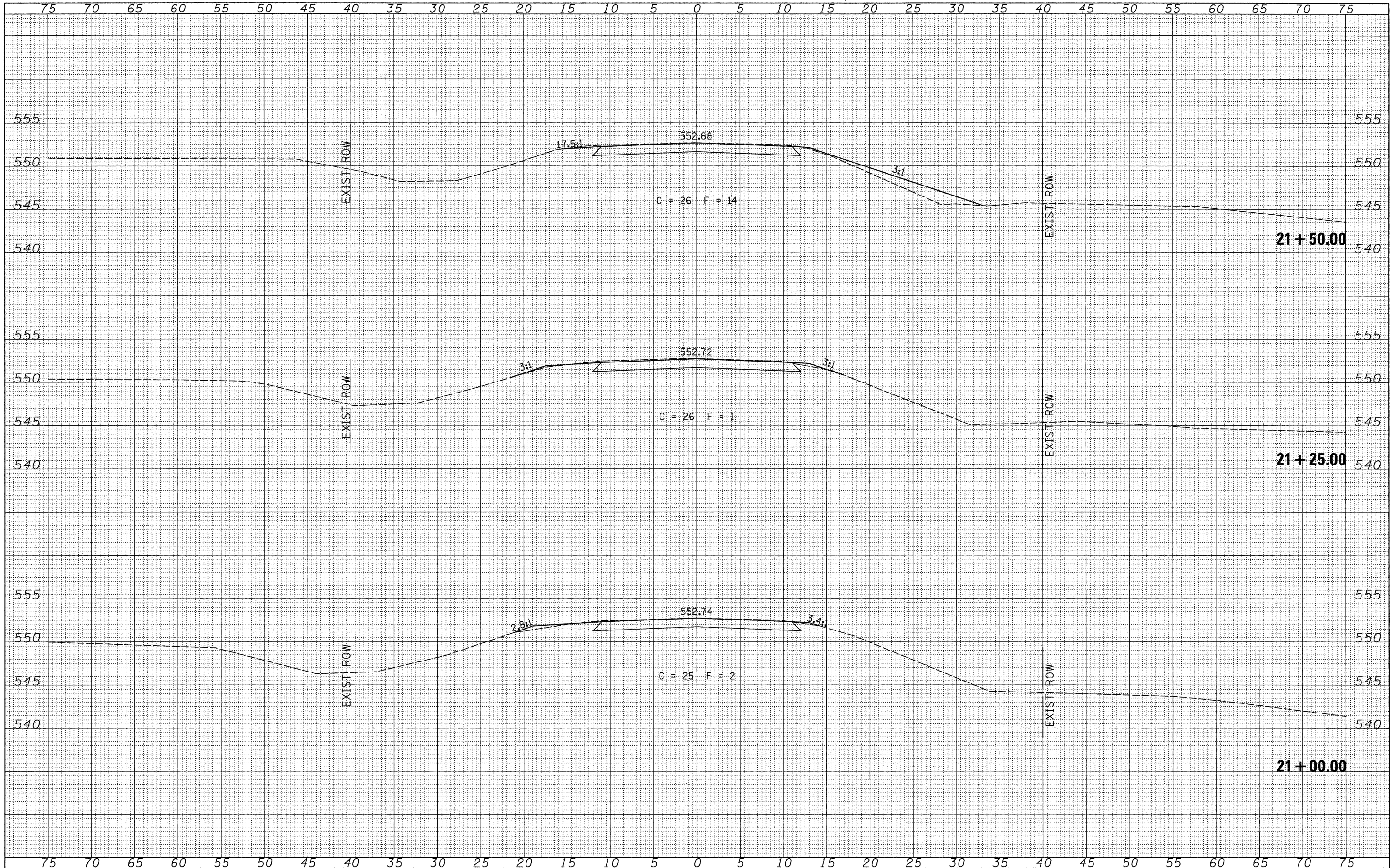
**MASON COUNTY
 COUNTY HIGHWAY 19 OVER
 SLEEPY HOLLOW DITCH**

CROSS SECTIONS
 SCALE: 1"=5'
 SHEET NO. 4 OF 6 SHEETS
 STA. 19+00.00 TO STA. 20+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1595	08-00035-01-BR	MASON	22	20
CONTRACT NO. 93549			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-1595(04)	

DATE	
BY	
FINAL SURVEY	
NOTE BOOK NO.	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK NO.	
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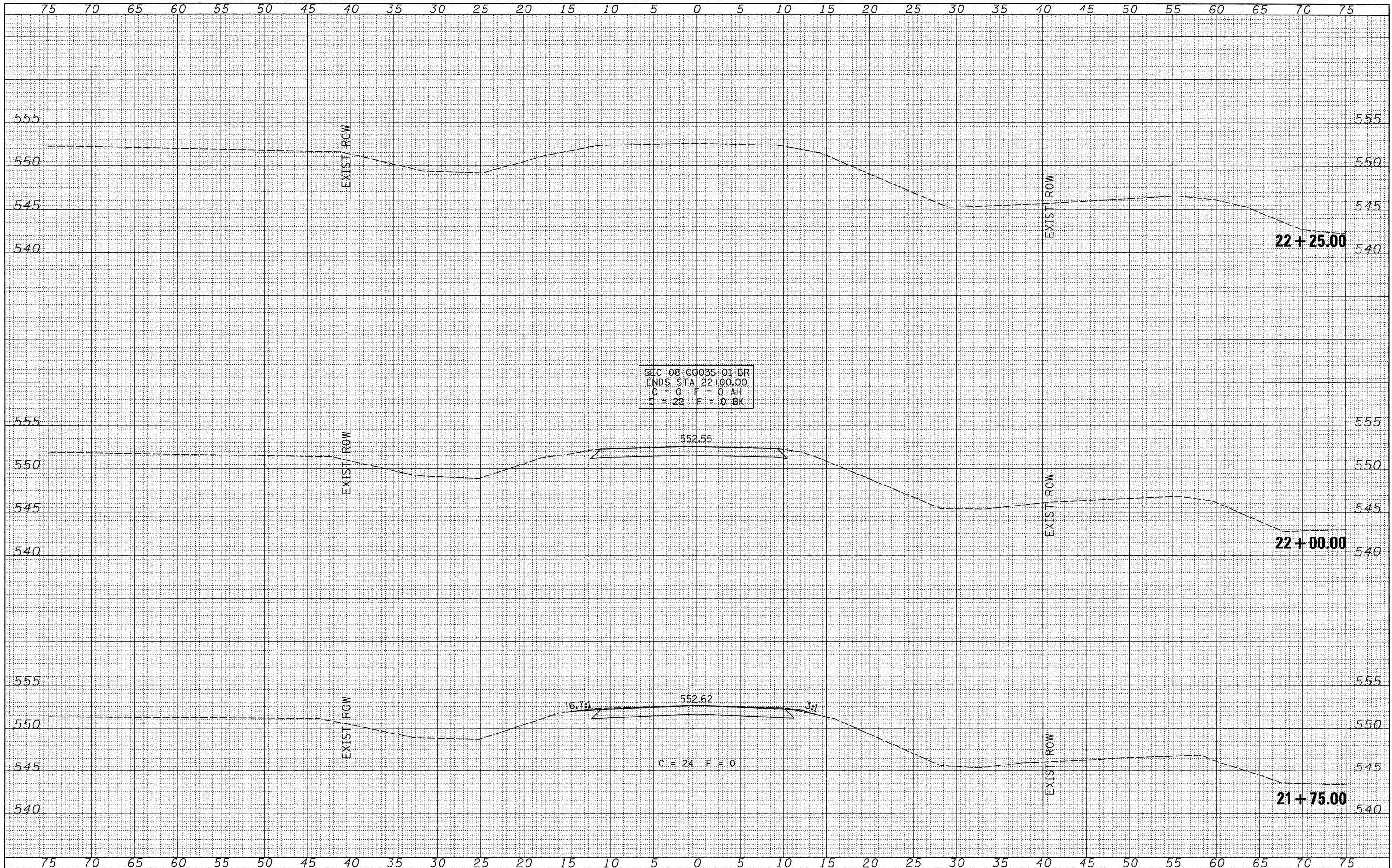
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 PLOT DATE = 3/4/2011

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

**MASON COUNTY
 COUNTY HIGHWAY 19 OVER
 SLEEPY HOLLOW DITCH**

CROSS SECTIONS
 SCALE: 1"=5' SHEET NO. 5 OF 6 SHEETS STA. 21+00.00 TO STA. 21+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1595	08-00035-01-BR	MASON	22	21
FED. ROAD DIST. NO. 7 [ILLINOIS] FED. AID PROJECT BRS-1595(104)			CONTRACT NO. 93549	



DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

SEC 08-00035-01-BR
 ENDS STA 22+00.00
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 C = 22 F = 0 BK

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PLOT SCALE = 5.00' / IN.	CHECKED -	REVISED -	REVISED -		SCALE: 1"=5'	SHEET NO. 6 OF 6 SHEETS	STA. 21+75.00 TO STA. 22+50.00	FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-1595(04)		
PLOT DATE = 3/4/2011	DATE -	REVISED -	REVISED -		CONTRACT NO. 93549							