

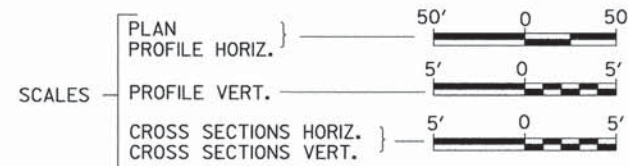
03-04-2016 LETTING ITEM 100

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**PLANS FOR PROPOSED**  
**SURFACE TRANSPORTATION PROGRAM- BRIDGE**  
**MOULTRIE COUNTY**  
**SECTION 11-00073-00-BR**  
**F.A.S. 554 (CH 9) OVER MARROWBONE CREEK**  
**PROJECT NO. BRS-0554(326)**  
**JOB NUMBER C-97-052-15**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
554	11-00073-00-BR	MOULTRIE	19	1
FED. ROAD DIST. NO. 7	ILLINOIS	CONTRACT NO. 95778		

INDEX OF SHEETS

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



REQUIRED HIGHWAY STANDARDS

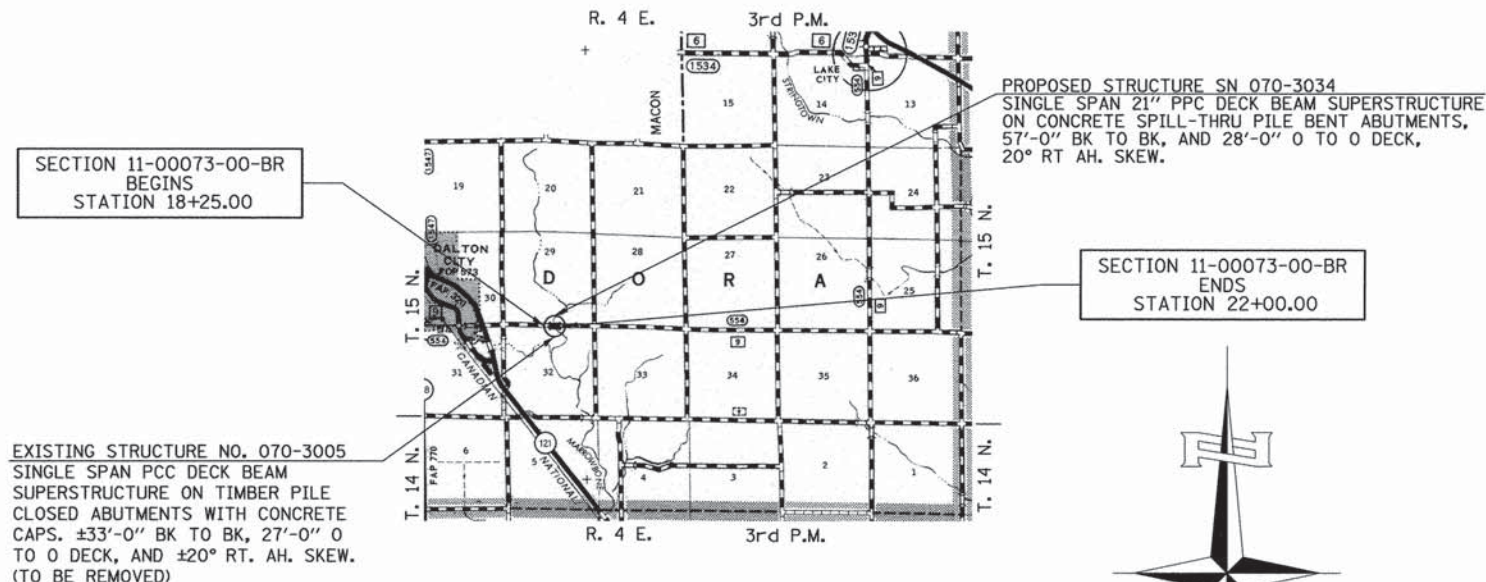
- 000001-06
- 280001-07
- 515001-03
- 630301-06
- 635006-03
- 701901-04
- BLR 21-9
- BLR 23-4
- BLR 27-1

UTILITY COMPANIES

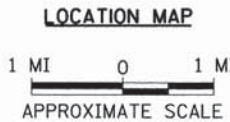
- AMEREN  
BELLEVILLE, ILLINOIS
- FRONTIER COMMUNICATIONS  
BLOOMINGTON, ILLINOIS
- VILLAGE OF DALTON CITY  
DALTON CITY, ILLINOIS

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

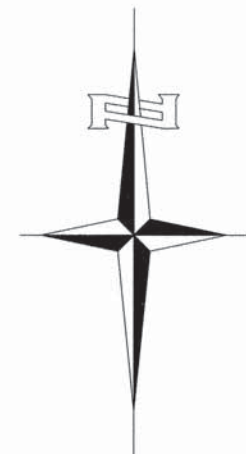
**CONTRACT NO. 95778**



EXISTING STRUCTURE NO. 070-3005  
 SINGLE SPAN PCC DECK BEAM  
 SUPERSTRUCTURE ON TIMBER PILE  
 CLOSED ABUTMENTS WITH CONCRETE  
 CAPS. ±33'-0" BK TO BK, 27'-0" O  
 TO O DECK, AND ±20° RT. AH. SKEW.  
 (TO BE REMOVED)



NET LENGTH OF PROJECT = 375.00 FEET = 0.071 MILES  
 DESIGN CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN)  
 DESIGN ADT = 350 (16)  
 DESIGN SPEED = 40 MPH

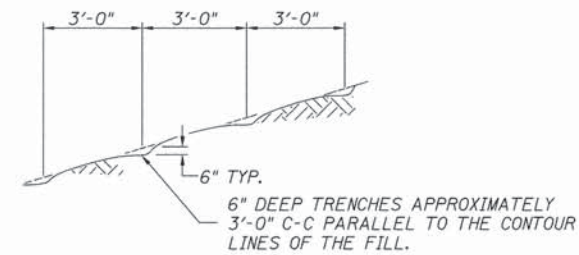
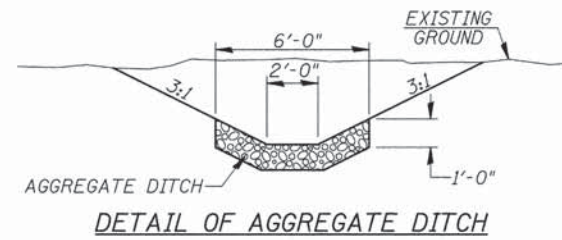
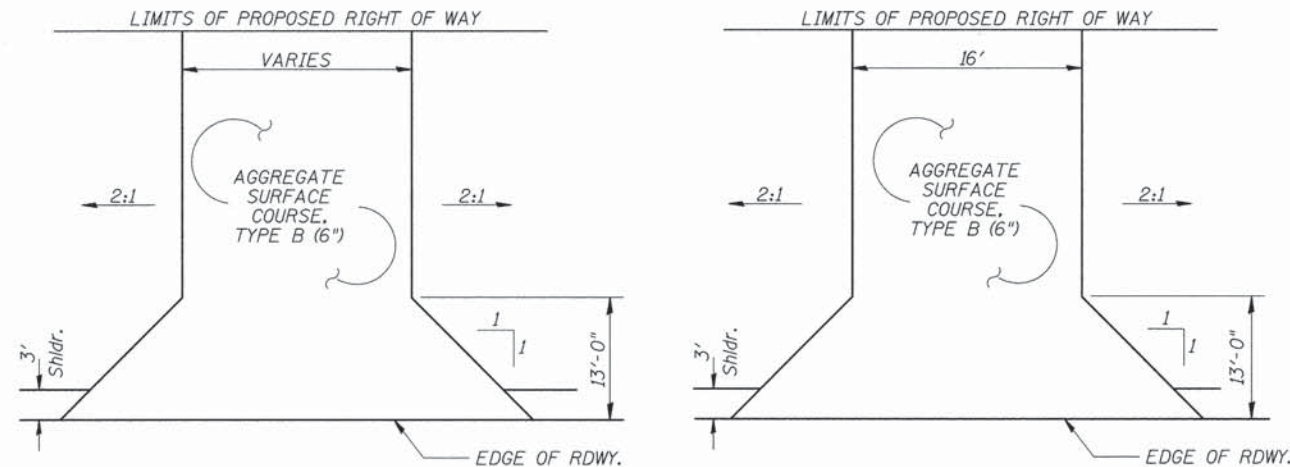


**Hutchison Engineering, Inc.**  
 JACKSONVILLE-SHOREWOOD-PEORIA

REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS  
 12/28/2015  
 SIGNATURE

APPROVED	<i>[Signature]</i> 12/10	2015
MOULTRIE COUNTY ENGINEER		
PASSED	<i>[Signature]</i> 12/28	2015
DISTRICT SEVEN ENGINEER OF LOCAL ROADS & STREETS		
Released For Bid Based on Limited Review	<i>[Signature]</i> 12-28	2015
DEPUTY DIRECTOR OF HIGHWAYS, REGION FOUR ENGINEER		
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		

3565E001



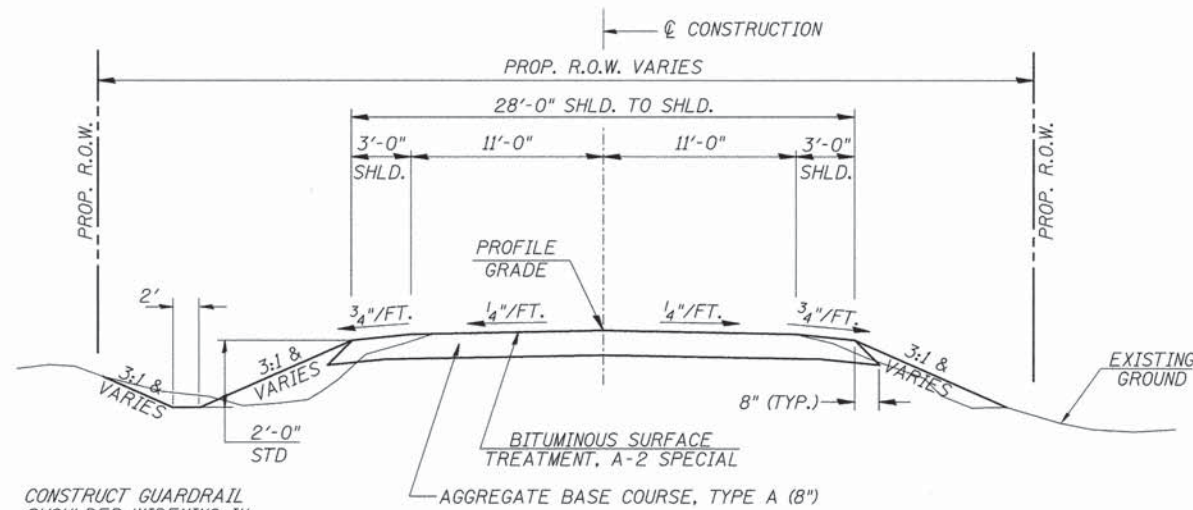
NOTE: ALL SLOPES 3:1 OR STEEPER AND GREATER THAN 5' IN HEIGHT SHALL BE CONTOUR PLOWED AS SHOWN IN DETAIL. COST SHALL BE INCLUDED WITH SEEDING, CLASS 2 (SPECIAL).

**PROPOSED FIELD ENTRANCES**

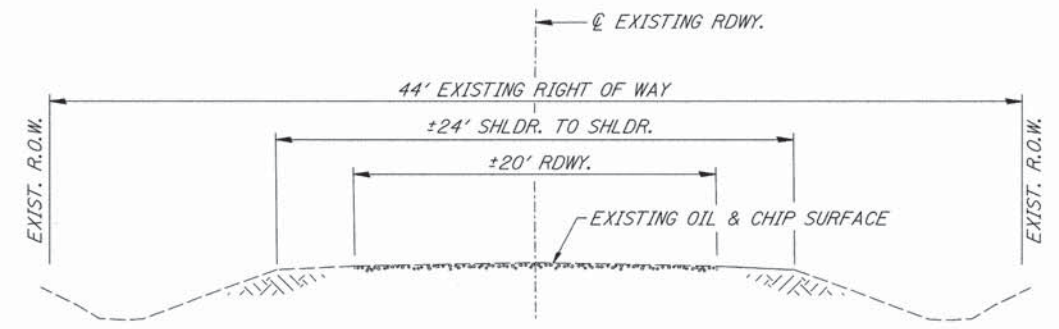
STA 19+15 RT (16' WIDE)  
 STA 21+25 RT (40' WIDE)

**PROPOSED PRIVATE ENTRANCE**

STA 21+28 LT



CONSTRUCT GUARDRAIL SHOULDER WIDENING IN ACCORDANCE WITH STD 630.301 AND B.L.R. 23, AS APPLICABLE



**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 PROJECT 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.

THE FINAL SURFACE OF ALL DISTURBED/EMBANKMENT AREAS SHALL BE SEED. THE TOP 4 INCHES OF THE SEED. AREAS SHALL BE COHESIVE VEGETATION SUSTAINING SOIL SUBJECT TO THE APPROVAL OF THE ENGINEER. THE COST OF SHAPING THE SLOPES AND PROVIDING VEGETATION SUSTAINING SOIL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. TOPSOIL MAY BE STRIPPED AND STOCKPILED FROM THE SITE OR HAULED IN FROM AN ALTERNATE LOCATION AS APPROVED BY THE ENGINEER.

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

FILE NAME =	USER NAME = cthomas	DESIGNED -	REVISED -
W:\Bridge\3565-Moultrie\35651001.dgn		DRAWN -	REVISED -
	PLOT SCALE = 1.0000" = 1'	CHECKED -	REVISED -
	PLOT DATE = 12/8/2015	DATE -	REVISED -

**MOULTRIE COUNTY  
 COUNTY HIGHWAY 9  
 OVER MARROWBONE CREEK**

**GENERAL NOTES, TYPICAL SECTIONS, DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 18+25.00 TO STA. 22+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
554	11-00073-00-BR	MOULTRIE	19	2
FED. ROAD DIST. NO. 7 [ILLINOIS]			FED. AID PROJECT BRS-0554(326)	

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	520
20300100	CHANNEL EXCAVATION	CU YD	160
25100630	EROSION CONTROL BLANKET	SQ YD	95
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	200
28000305	TEMPORARY DITCH CHECKS	FOOT	84
28000400	PERIMETER EROSION BARRIER	FOOT	325
28000500	INLET AND PIPE PROTECTION	EACH	3
28100207	STONE RIPRAP, CLASS A4	TON	250
28200200	FILTER FABRIC	SQ YD	339
28300400	AGGREGATE DITCH	TON	18
35100100	AGGREGATE BASE COURSE, TYPE A	TON	414
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	73
① 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50105220	PIPE CULVERT REMOVAL	FOOT	123
50200100	STRUCTURE EXCAVATION	CU YD	80
50300225	CONCRETE STRUCTURES	CU YD	24.3
50300280	CONCRETE ENCASEMENT	CU YD	3.5
① 50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	1,540
① 50800105	REINFORCEMENT BARS	POUND	2,750
Δ 50900205	STEEL RAILING, TYPE S1	FOOT	114
51201400	FURNISHING STEEL PILES HP10X42	FOOT	264
51202305	DRIVING PILES	FOOT	264
51203400	TEST PILE STEEL HP10X42	EACH	2
51500100	NAME PLATES	EACH	1
① 54200220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	90
① 54200223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	32
Δ 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2
Δ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1
67100100	MOBILIZATION	L SUM	1
Δ ① 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
Δ LR631020	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	1
① X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.4
① X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
① XX004450	BITUMINOUS SURFACE TREATMENT, A-2 SPECIAL	SQ YD	942
① XX004633	FIELD TILE ADJUSTMENT	EACH	1

① SEE SPECIAL PROVISIONS

CONSTRUCTION CODE TYPE: 0011

Δ SPECIALTY ITEMS

**AGGREGATE DITCH\***

STATION TO STATION	SIDE	WIDTH	TON	FILTER FABRIC (SQ YD)
18+25 - 18+75	RIGHT	6'	18	34
<b>TOTAL</b>			<b>18</b>	<b>34</b>

\* Aggregate Ditch shall conform to material type B-3 of the Standard Specifications

**PIPE CULVERTS, CLASS D, TYPE 1 15"**

STATION	SIDE	FOOT
19+15	RIGHT	34
21+25	RIGHT	56
<b>TOTAL</b>		<b>90</b>

**PIPE CULVERT REMOVAL**

STATION	SIZE	SIDE	FOOT
20+33	18"	LEFT	58
21+28	15"	LEFT	39
21+35	15"	RIGHT	26
<b>TOTAL</b>			<b>123</b>

**PIPE CULVERTS, CLASS D, TYPE 1 18"**

STATION	SIDE	FOOT
21+28	LEFT	32
<b>TOTAL</b>		<b>32</b>

**AGGREGATE BASE COURSE, TYPE A**

STATION TO STATION	THICKNESS	WIDTH	LENGTH	TON
18+25.00 - 18+75.00	0.67'	25.81' AVG.	50.00'	61
18+75.00 - 19+71.50	0.67'	28.67'	96.50'	130
20+28.50 - 21+50.00	0.67'	28.67'	121.50'	163
21+50.00 - 22+00.00	0.67'	25.61' AVG.	50.00'	60
<b>TOTAL</b>				<b>414</b>

**TRAFFIC BARRIER TERMINAL, TYPE 5A**

SIDE	STATION TO STATION	EACH
RIGHT	19+63.35 - 19+76.60	1
LEFT	20+23.40 - 20+36.65	1
<b>TOTAL</b>		<b>2</b>

**TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT**

SIDE	STATION TO STATION	EACH
LEFT	20+36.65 - 20+86.65	1
<b>TOTAL</b>		<b>1</b>

**TRAFFIC BARRIER TERMINAL, TYPE 1**

SIDE	STATION TO STATION	EACH
RIGHT	19+38.35 - 19+63.35	1
<b>TOTAL</b>		<b>1</b>

**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 18+25.00 - 19+71.50	206			22	177	
RDWY 20+28.50 - 22+00.00	313			37	264	
CHANNEL		160			160	
STRUCTURE			80		80	
<b>TOTAL</b>		<b>519</b>	<b>160</b>	<b>80</b>	<b>59</b>	<b>681</b>
<b>USE</b>		<b>520</b>	<b>160</b>	<b>80</b>	<b>-</b>	<b>680</b>

② 25% SHRINKAGE

**TEMPORARY DITCH CHECKS**

STATION	SIDE	FOOT
18+45	RIGHT	12
18+65	RIGHT	12
19+50	RIGHT	12
20+12	LEFT	12
20+31	RIGHT	12
21+75	LEFT	12
21+75	RIGHT	12
<b>TOTAL</b>		<b>84</b>

**PERIMETER EROSION BARRIER**

STATION TO STATION	SIDE	FOOT
18+25 - 19+65	LEFT	155
18+98 - 19+30	RIGHT	35
19+50 - 19+79	RIGHT	45
20+96 - 21+52	RIGHT	55
21+13 - 21+45	LEFT	35
<b>TOTAL</b>		<b>325</b>

**EROSION CONTROL BLANKET**

STATION TO STATION	SIDE	WIDTH	LENGTH	AREA (SQ YD)
20+85 - 20+96	RIGHT	6'	11	8
20+90 - 21+13	LEFT	6'	23	16
21+45 - 22+00	LEFT	6'	55	38
21+52 - 22+00	RIGHT	6'	48	33
<b>TOTAL</b>				<b>95</b>

**INLET AND PIPE PROTECTION**

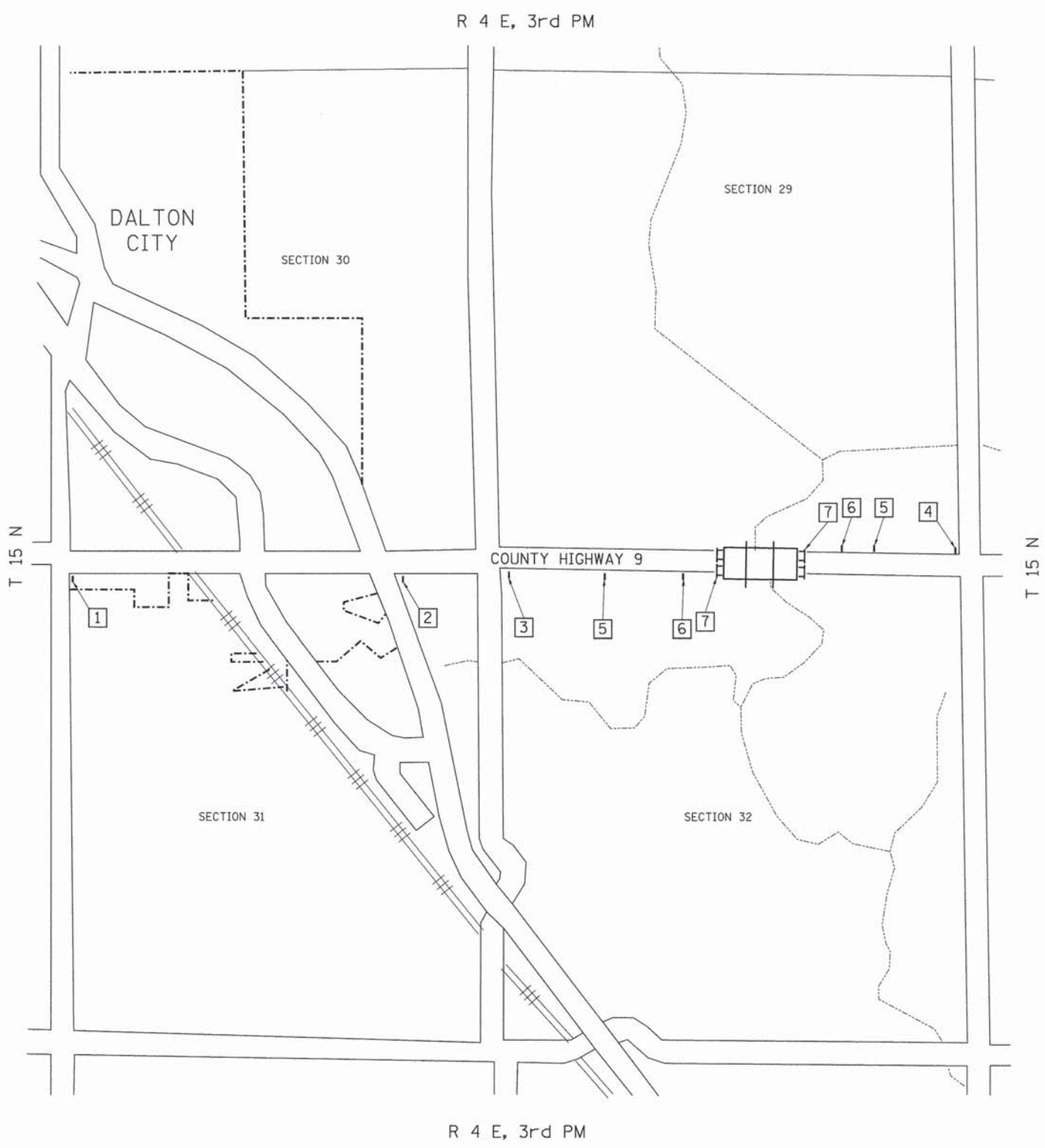
STATION	SIDE	EACH
18+98	RIGHT	1
21+45	LEFT	1
21+52	RIGHT	1
<b>TOTAL</b>		<b>3</b>

**AGGREGATE SURFACE COURSE, TYPE B**

STATION TO STATION	THICKNESS	WIDTH	LENGTH	TON
ENTRANCE - 19+15 RT	0.50'	16' & VAR.	31.0'	22
ENTRANCE - 21+25 RT	0.50'	40' & VAR.	20.7'	33
ENTRANCE - 21+28 LT	0.50'	16' & VAR.	25.4'	18
<b>TOTAL</b>				<b>73</b>

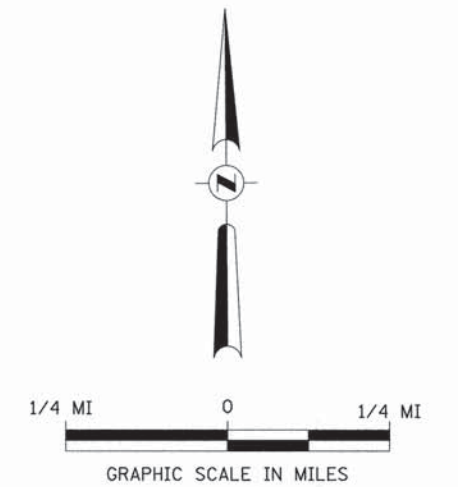
**BITUMINOUS SURFACE TREATMENT, A-2 (SPECIAL)**

STATION TO STATION	WIDTH	LENGTH	SQ YD
18+25.00 - 18+75.00	20.95' AVG.	50.00'	116
18+75.00 - 19+71.50	22.00'	96.50'	236
BRIDGE DECK	28.00'	57.00'	177
20+28.50 - 21+50.00	22.00'	121.50'	297
21+50.00 - 22+00.00	20.85' AVG.	50.00'	116
<b>TOTAL</b>			<b>942</b>



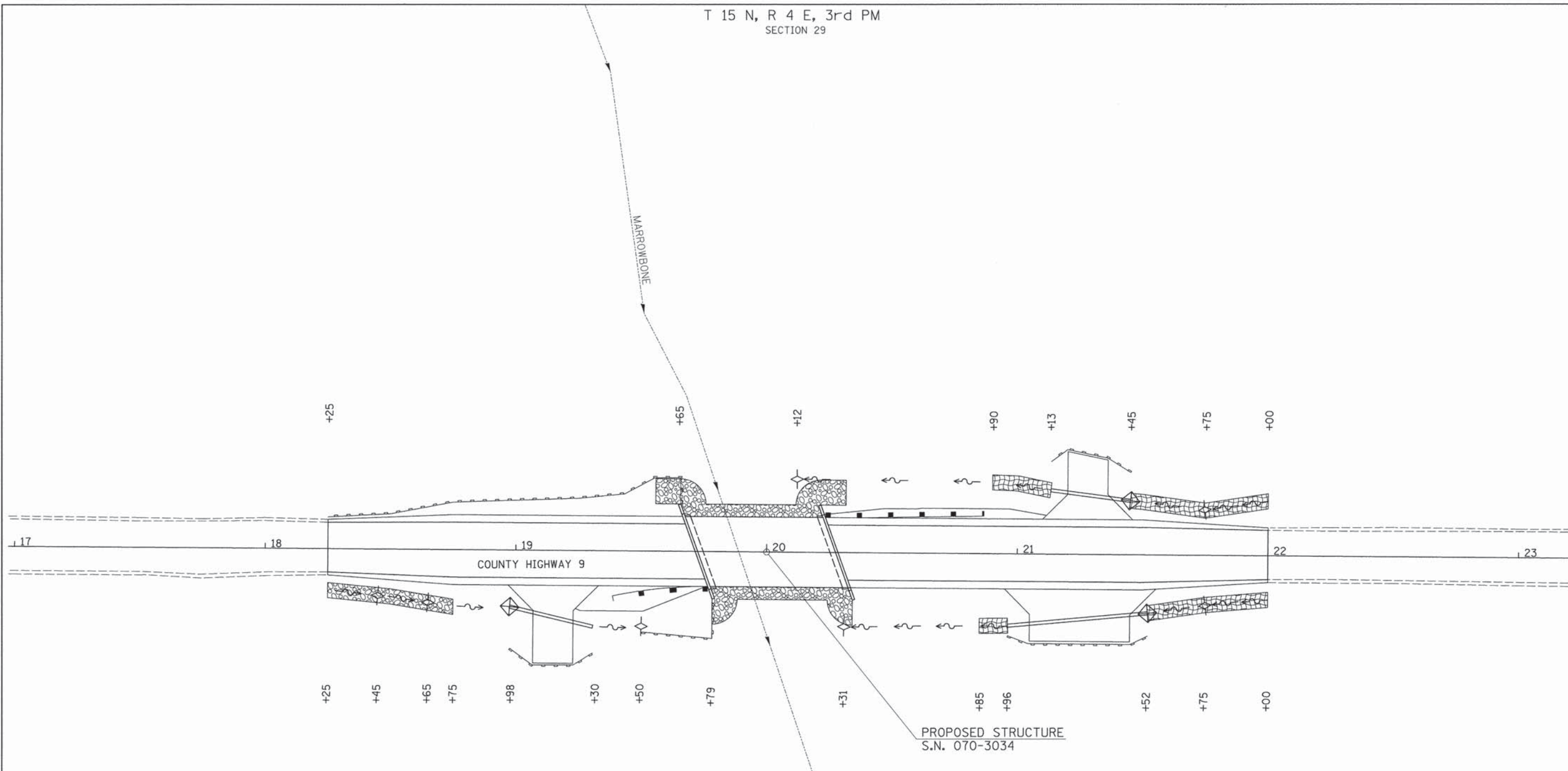
- |                                                                             |                                                                 |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------|
| <p>1 ROAD CLOSED<br/>1 1/2 MILES AHEAD<br/>LOCAL TRAFFIC ONLY<br/>R11-3</p> | <p>ROAD CLOSED<br/>1 1/2 MILES AHEAD<br/>LOCAL TRAFFIC ONLY</p> |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------|
- |                                                                          |                                                              |
|--------------------------------------------------------------------------|--------------------------------------------------------------|
| <p>2 ROAD CLOSED<br/>3/4 MILE AHEAD<br/>LOCAL TRAFFIC ONLY<br/>R11-3</p> | <p>ROAD CLOSED<br/>3/4 MILE AHEAD<br/>LOCAL TRAFFIC ONLY</p> |
|--------------------------------------------------------------------------|--------------------------------------------------------------|
- |                                                                          |                                                              |
|--------------------------------------------------------------------------|--------------------------------------------------------------|
| <p>3 ROAD CLOSED<br/>2/3 MILE AHEAD<br/>LOCAL TRAFFIC ONLY<br/>R11-3</p> | <p>ROAD CLOSED<br/>2/3 MILE AHEAD<br/>LOCAL TRAFFIC ONLY</p> |
|--------------------------------------------------------------------------|--------------------------------------------------------------|
- |                                                                          |                                                              |
|--------------------------------------------------------------------------|--------------------------------------------------------------|
| <p>4 ROAD CLOSED<br/>1/3 MILE AHEAD<br/>LOCAL TRAFFIC ONLY<br/>R11-3</p> | <p>ROAD CLOSED<br/>1/3 MILE AHEAD<br/>LOCAL TRAFFIC ONLY</p> |
|--------------------------------------------------------------------------|--------------------------------------------------------------|
- |                                           |                              |
|-------------------------------------------|------------------------------|
| <p>5  ROAD CLOSED<br/>AHEAD<br/>W20-3</p> | <p>ROAD CLOSED<br/>AHEAD</p> |
|-------------------------------------------|------------------------------|
- |                                            |                               |
|--------------------------------------------|-------------------------------|
| <p>6  ROAD CLOSED<br/>500 FT<br/>W20-3</p> | <p>ROAD CLOSED<br/>500 FT</p> |
|--------------------------------------------|-------------------------------|
- |                               |  |
|-------------------------------|--|
| <p>7  TYPE III BARRICADES</p> |  |
|-------------------------------|--|

SEE STANDARD BLR 21  
AND SPECIAL PROVISIONS









FILE NAME = V:\Bridge\3565-Moultrie\3565H001.dgn	USER NAME = cthomas	DESIGNED -	REVISED -	<b>MOULTRIE COUNTY COUNTY HIGHWAY 9 OVER MARROWBONE CREEK</b>	<b>TRAFFIC CONTROL PLAN</b>	F.A.S. RTE. 554	SECTION 11-00073-00-BR	COUNTY MOULTRIE	TOTAL SHEETS 19	SHEET NO. 4
PLOT SCALE = 1.0000" = 1/4"	PLOT DATE = 12/8/2015	DRAWN -	REVISIED -	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. 18+25.00 TO STA. 22+00.00		CONTRACT NO. 95778		
CHECKED -	DATE - 03/02/09	REVISIED -	REVISIED -	FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-0554(326)						

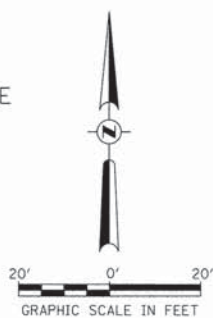
T 15 N, R 4 E, 3rd PM  
SECTION 29



**LEGEND**

-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECK
-  INLET AND PIPE PROTECTION
-  SPECIAL DITCH - FLOW LINE AND DIRECTION
-  EROSION CONTROL BLANKET
-  PROPOSED RIPRAP/AGGREGATE DITCH

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



T 15 N, R 4 E, 3rd PM  
SECTION 32

FILE NAME = W:\Bridge\3565-Moultrie\3565S001.dgn	USER NAME = cthomas	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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	PLOT DATE = 12/9/2015	DATE -	REVISED -

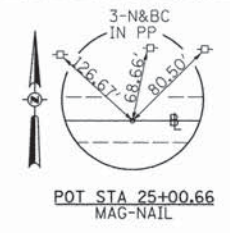
**MOULTRIE COUNTY  
COUNTY HIGHWAY 9  
OVER MARROWBONE CREEK**

**EROSION CONTROL PLAN**  
SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 18+25.00 TO STA. 22+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
554	11-00073-00-BR	MOULTRIE	19	5
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-0554(326)		



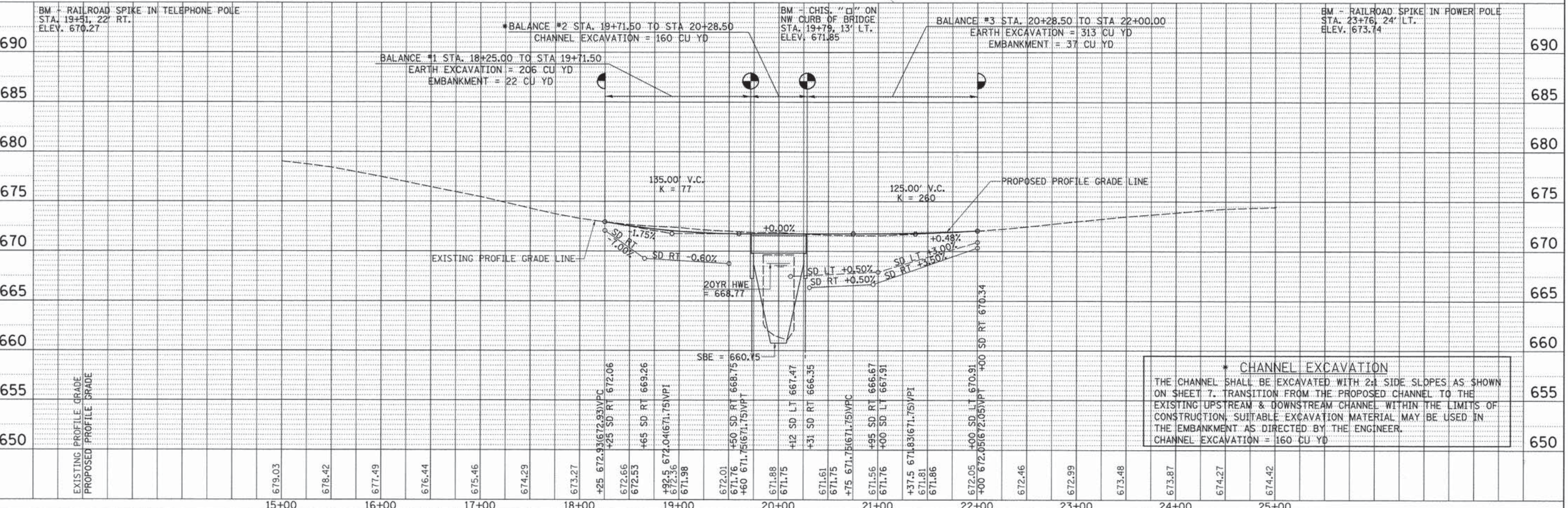
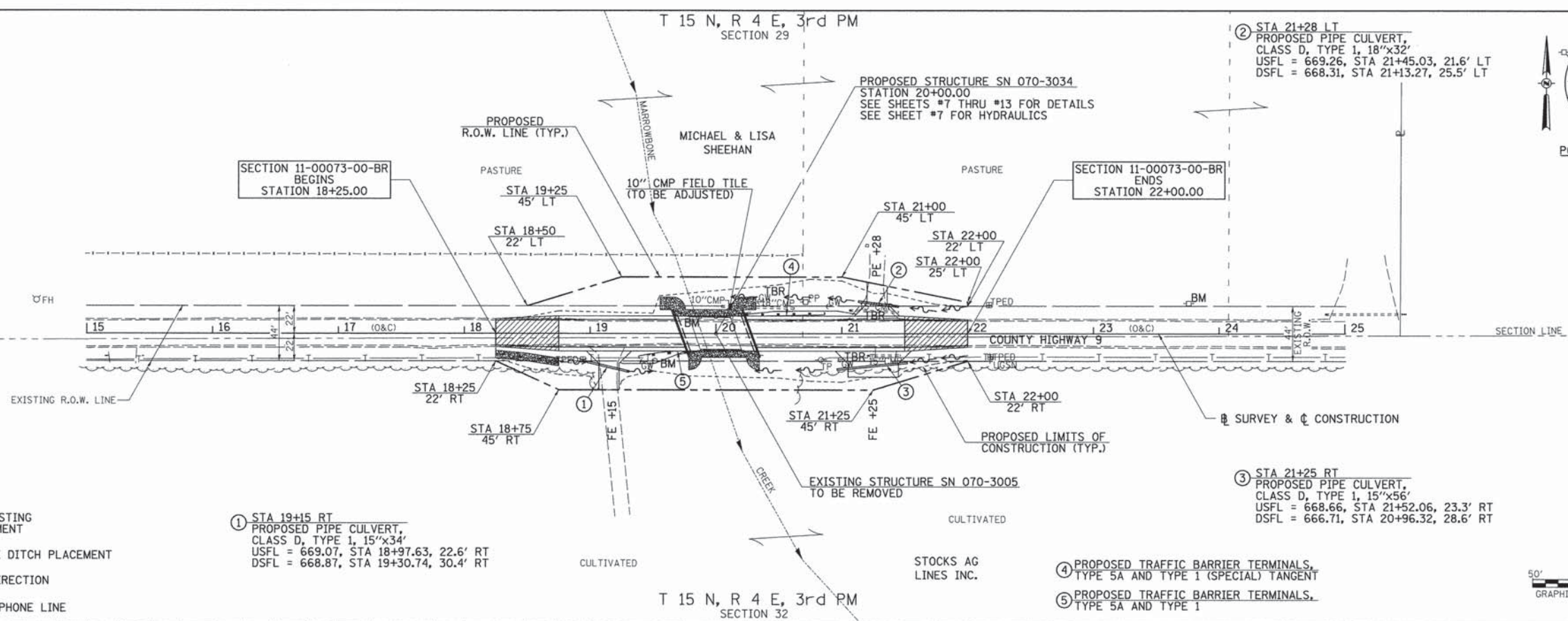
POT STA 14+99.72  
MAG-NAIL



POT STA 25+00.66  
MAG-NAIL

DATE	
BY	
REVISIONS	
PLANNED	
NOTED	
NO.	

DATE	
BY	
REVISIONS	
PLANNED	
NOTED	
NO.	



**CHANNEL EXCAVATION**  
THE CHANNEL SHALL BE EXCAVATED WITH 2:1 SIDE SLOPES AS SHOWN ON SHEET 7. TRANSITION FROM THE PROPOSED CHANNEL TO THE EXISTING UPSTREAM & DOWNSTREAM CHANNEL WITHIN THE LIMITS OF CONSTRUCTION. SUITABLE EXCAVATION MATERIAL MAY BE USED IN THE EMBANKMENT AS DIRECTED BY THE ENGINEER.  
CHANNEL EXCAVATION = 160 CU YD

FILE NAME =	USER NAME = othomas	DESIGNED -	REVISED -	<b>MOULTRIE COUNTY COUNTY HIGHWAY 9 OVER MARROWBONE CREEK</b>	<b>PLAN AND PROFILE</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	PLOT SCALE = 50.0000' / 1" =	DRAWN -	REVISED -			554	11-00073-00-BR	MOULTRIE	19	6	
	PLOT DATE = 12/8/2015	CHECKED -	REVISED -			SCALE: 1"=50'	SHEET NO. 1 OF 1 SHEETS	FED. ROAD DIST. NO. 7 ILLINOIS	CONTRACT NO. 95778		
		DATE -	REVISED -			STA. 18+25.00 TO STA. 22+00.00		FED. AID PROJECT BR5-0554(326)			

B.M.: RR Spike in Telephone Pole Sta. 19+51, 22' Rt. Elev. 620.27  
 RR Spike in Power Pole Sta. 23+76, 24' Lt. Elev. 673.74

**Existing Structure:**

Single span PPC Deck Beam Bridge on timber pile closed abutments with concrete caps. The structure is ±33'-0" back to back of abutments, 27'-0" out to out deck, and is skewed ±20°. Str. No. 070-3005

Salvage: None

Road to be closed to traffic during construction.

**MARROWBONE CREEK  
 BUILT 2011 BY  
 MOULTRIE COUNTY  
 SEC. 11-00073-00-BR  
 C.H. 9 STATION 20+00.00  
 F.A. PROJ. BRS-0554(326)  
 STR. NO. 070-3034 LOADING HL-93**

**NAME PLATE**

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

**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.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.

The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	CU YD	—	160	160
Stone Riprap, Class A4	TON	—	250	250
Filter Fabric	SQ YD	—	305	305
① Removal of Existing Structures	EACH	—	—	1
Structure Excavation	CU YD	—	80	80
Concrete Structures	CU YD	—	24.3	24.3
① Precast Prestressed Concrete Deck Beams (21" Depth)	SQ FT	1,540	—	1,540
① Reinforcement Bars	POUND	—	2,750	2,750
Steel Railing, Type S1	FOOT	114	—	114
Furnishing Steel Piles HP10x42	FOOT	—	264	264
Driving Piles	FOOT	—	264	264
Test Pile Steel HP10x42	EACH	—	2	2
Concrete Encasement	CU YD	—	3.5	3.5
Name Plates	EACH	—	1	1
① Bituminous Surface Treatment, A-2 Special	SQ YD	177	—	177
① Terminal Marker - Direct Applied	EACH	4	—	4

① See Special Provisions

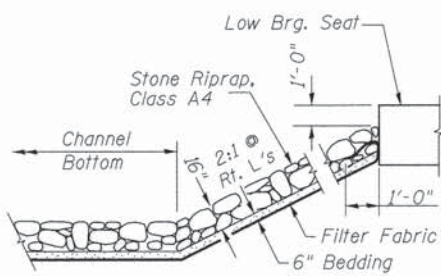
I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway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

*[Signature]* 12/8/2015  
 Illinois Structural No. 6440  
 Expires 11/30/2016

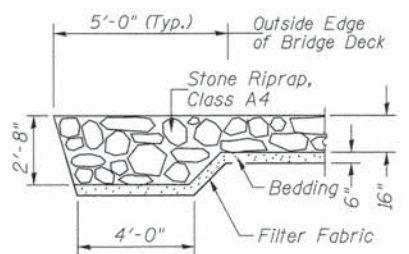


**GENERAL PLAN & ELEVATION  
 MOULTRIE COUNTY  
 SECTION 11-00073-00-BR  
 C.H. 9 OVER MARROWBONE CREEK**

SHEET NO. 1	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7 SHEETS	554	11-00073-00-BR	MOULTRIE	19	7
S.N. 070-3034			CONTRACT NO. 95778		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-0554(326)					



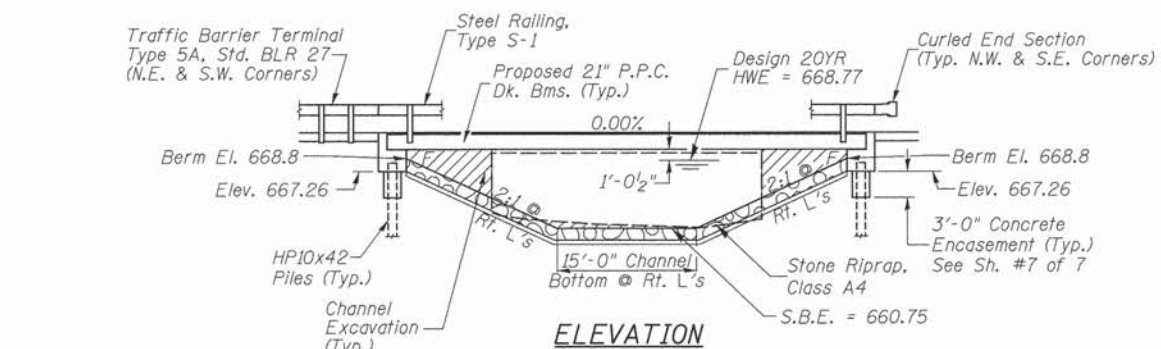
**STONE RIPRAP DETAIL**



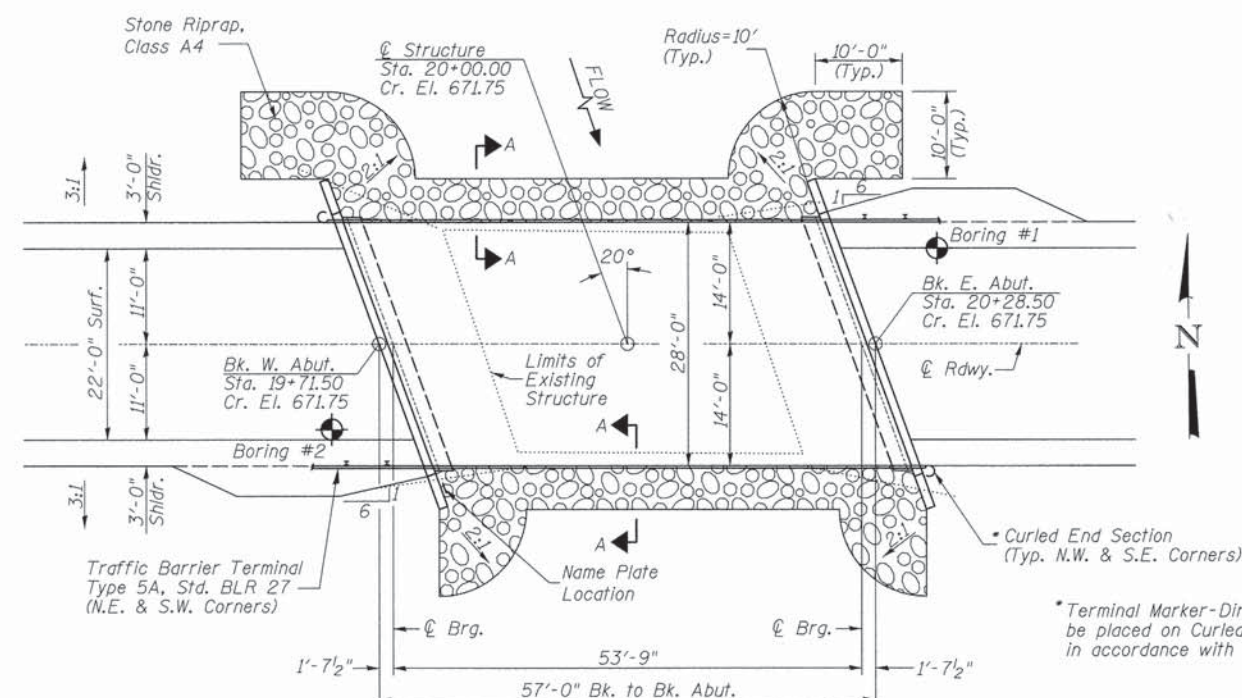
**SECTION A-A**



**PROFILE GRADE**



**ELEVATION**



**PLAN**

**DESIGN SCOUR TABLE**

Location	W. Abut.	E. Abut.
Design Scour Elevation	667.26	667.26

**WATERWAY INFORMATION**

Drainage Area = 5.84 Sq. Mi. Low Grade Elev. = 671.75 @ Sta. 20+00.00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	20	1,233	210	251	668.77	0.36	0.22	669.13	668.99	
Base	100	1,838	235	294	669.67	0.79	0.44	670.46	670.11	

**DESIGN SPECIFICATIONS**

2014 AASHTO LRFD Bridge Design Specifications 7th Edition

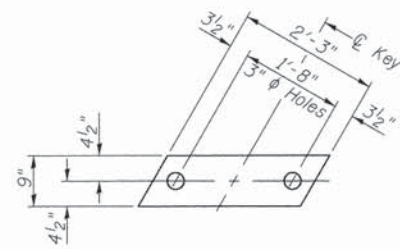
**DESIGN STRESSES**

(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)

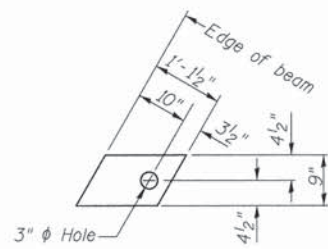
**LOADING HL-93**

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

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

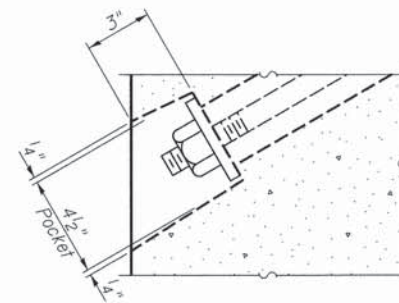


**1/2" FABRIC BEARING PAD**  
(Interior) 12 Required

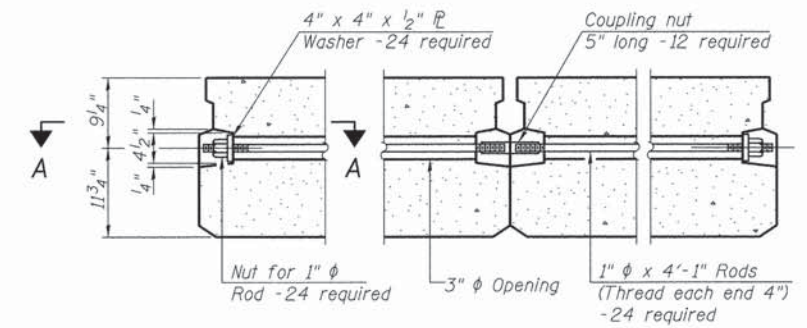


**1/2" FABRIC BEARING PAD**  
(Exterior) 4 Required

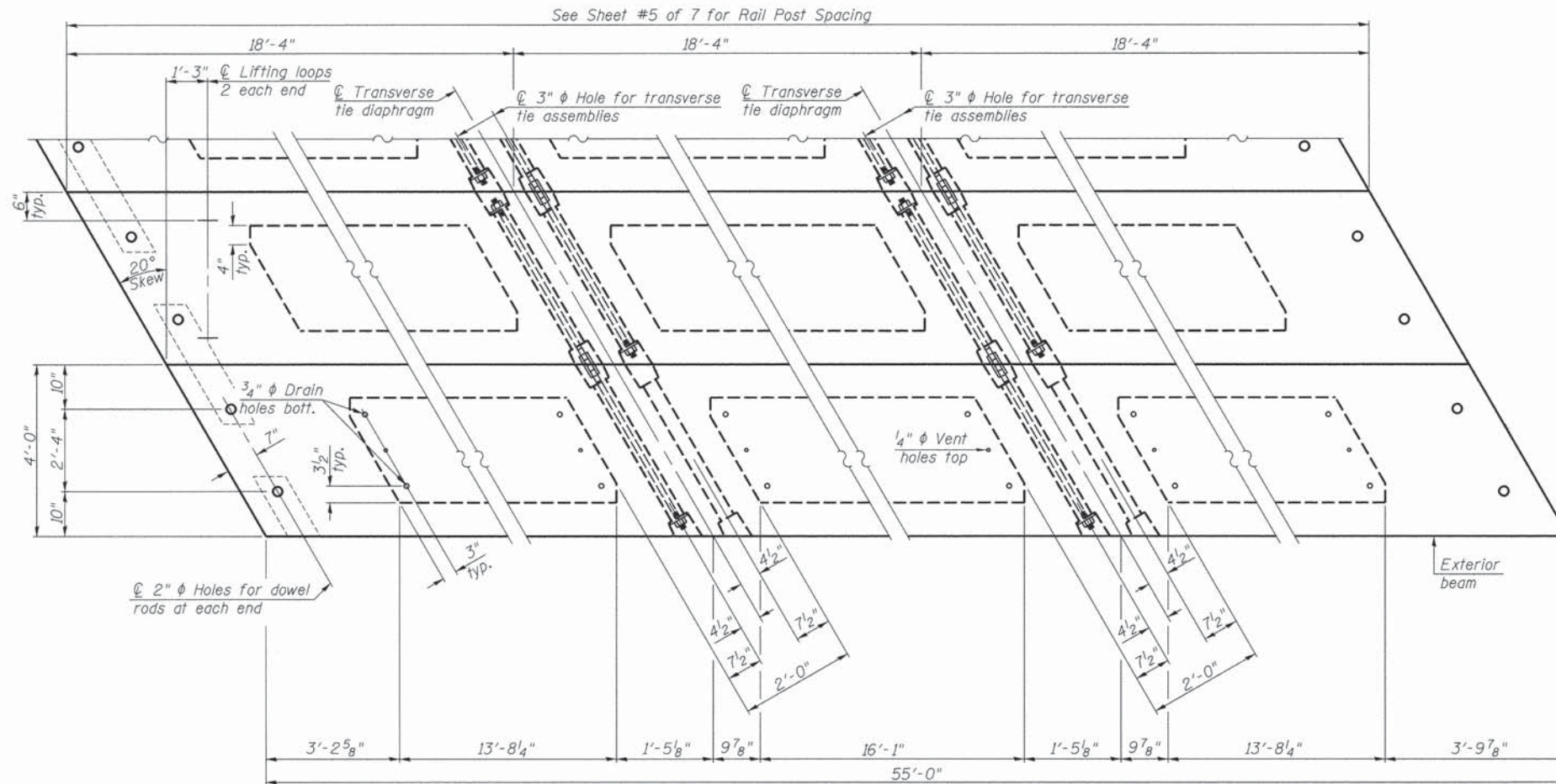
**FIXED**



**SECTION A-A**

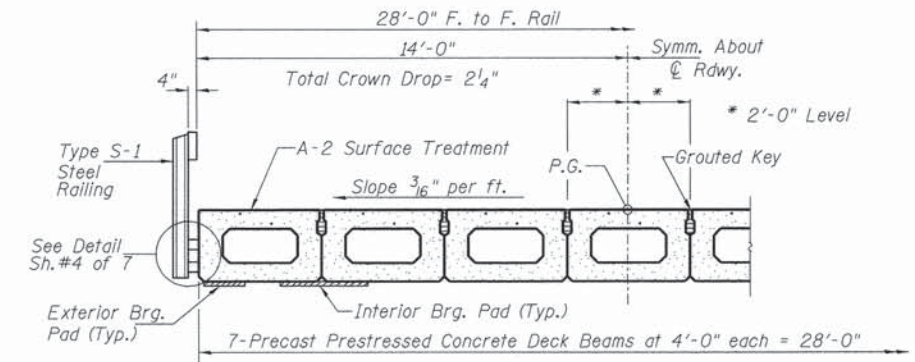


**TYPICAL TRANSVERSE TIE ASSEMBLY**



**PLAN VIEW**

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



**HALF CROSS SECTION**

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
① Precast Prestressed Concrete Deck Beams (21" Depth)	SQ FT	1,540

① See Special Provisions

**NOTES**

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

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

Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

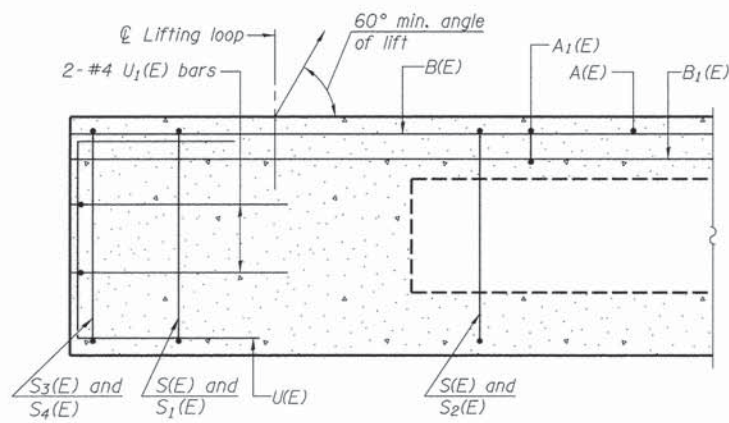
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

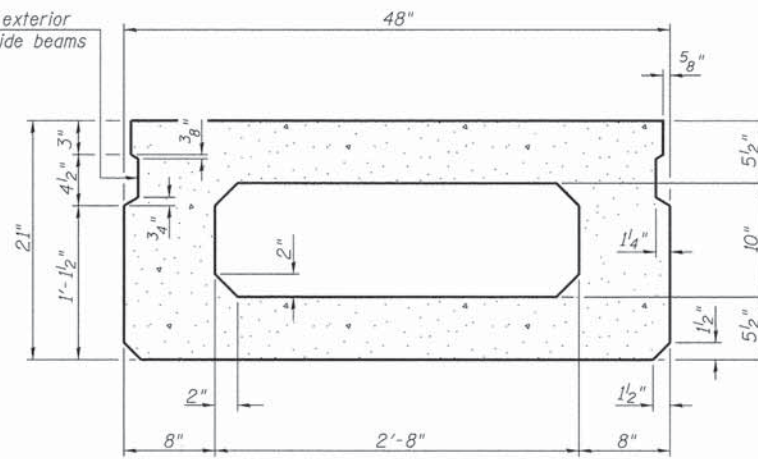
**SUPERSTRUCTURE**  
**MOULTRIE COUNTY**  
**SECTION 11-00073-00-BR**  
**C.H. 9 OVER MARROWBONE CREEK**

SHEET NO. 2	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7 SHEETS	554	11-00073-00-BR	MOULTRIE	19	8
S.N. 070-3034			CONTRACT NO. 95778		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-0554(326)					

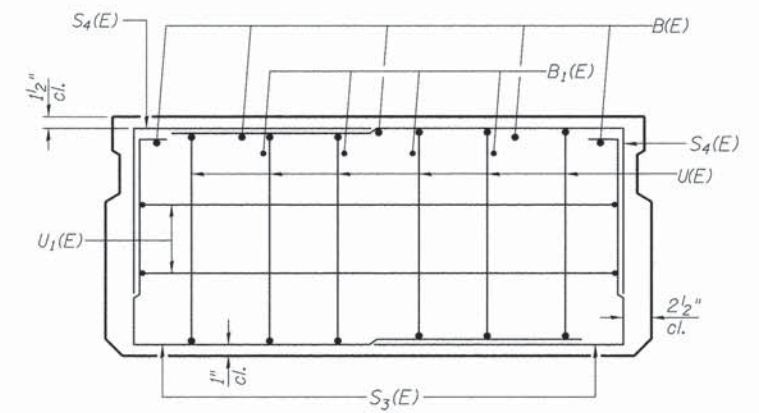




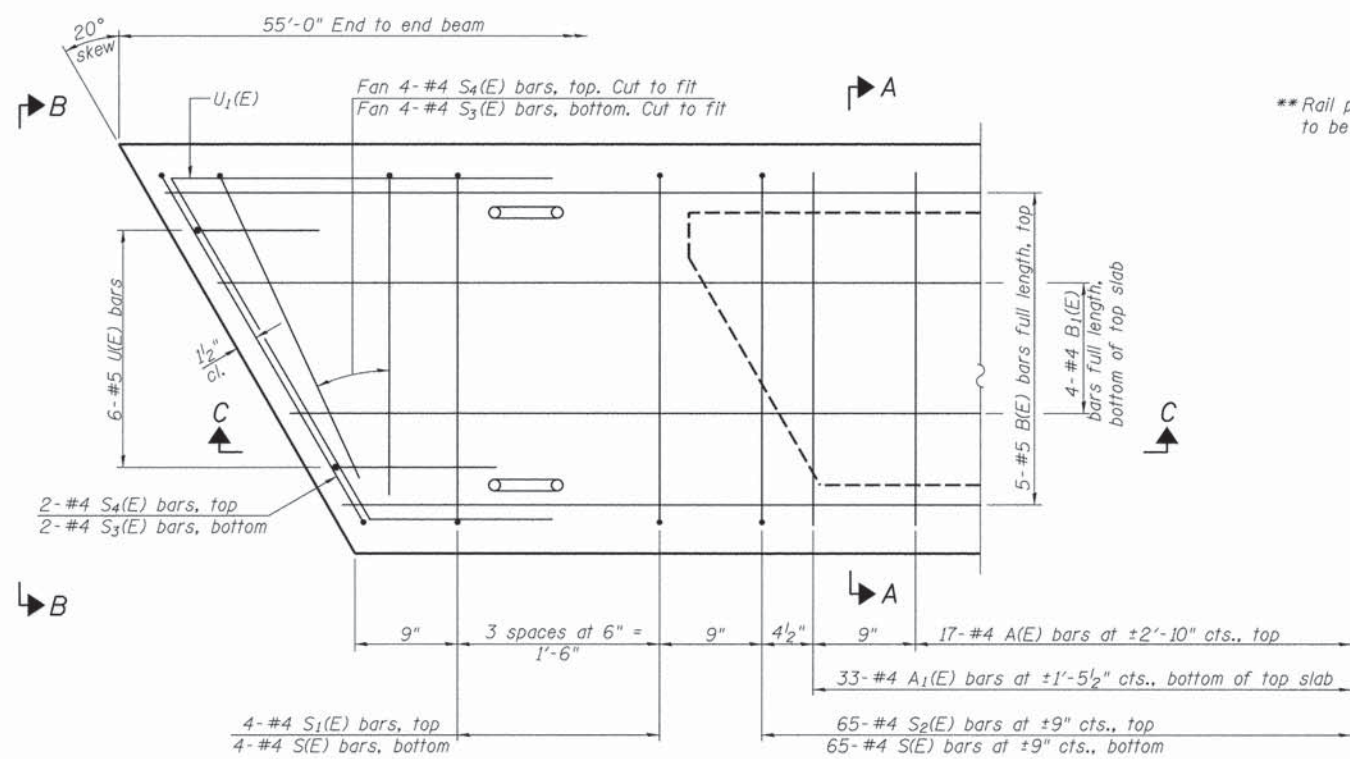
SECTION C-C



SECTION A-A  
(Showing dimensions)



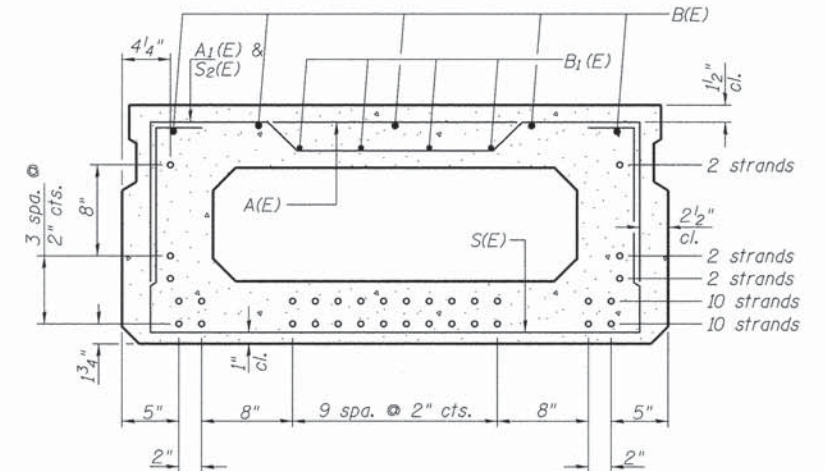
VIEW B-B



PLAN VIEW

\*\*Omit key on exterior face of outside beams

\*\*Rail post anchor devices (Sheet 4 of 7) to be cast into exterior face of outside beams.



SECTION A-A

26-1/2" Strands Each Strand Stressed to 30,900 Lbs.  
10-Strands 1 3/4" up, 10-Strands 3 3/4" up,  
2-Strands 5 3/4" up, 2-Strands 7 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.

BAR LIST-ONE BEAM ONLY

(For Information Only)

BAR	NO.	SIZE	LENGTH	SHAPE
A(E)	17	#4	3'-7"	—
A1(E)	33	#4	3'-10"	—
B(E)	5	#5	*54'-9"	—
B1(E)	4	#4	*54'-9"	—
S(E)	73	#4	7'-5"	U
S1(E)	8	#4	5'-11"	U
S2(E)	65	#4	6'-2"	U
S3(E)	12	#4	5'-8"	U
S4(E)	12	#4	4'-11"	U
U(E)	12	#5	4'-0"	U
U1(E)	4	#4	7'-6"	U

MIN. BAR LAP

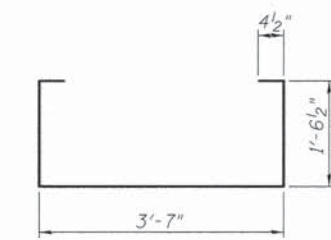
#4 bar = 2'-0"  
#5 bar = 2'-6"

\* Total Length, Lap as necessary

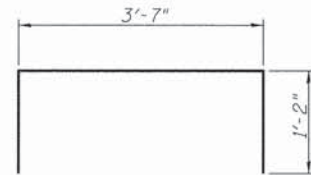
Note: See Sheet 2 of 7 for additional details and Bill of Material.

SUPERSTRUCTURE DETAILS  
MOULTRIE COUNTY  
SECTION 11-00073-00-BR  
C.H. 9 OVER MARROWBONE CREEK

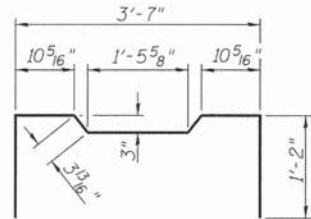
Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



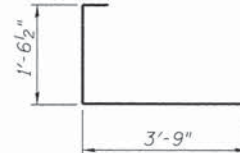
BAR S(E)



BAR S1(E)



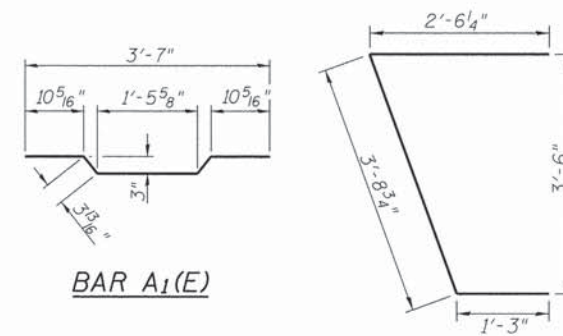
BAR S2(E)



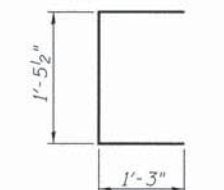
BAR S3(E)



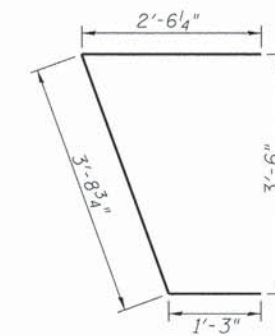
BAR S4(E)



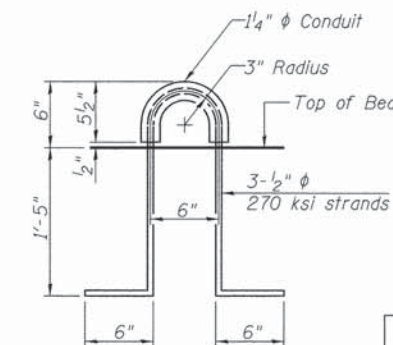
BAR A1(E)



BAR U(E)



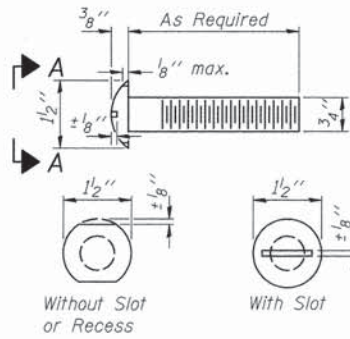
BAR U1(E)



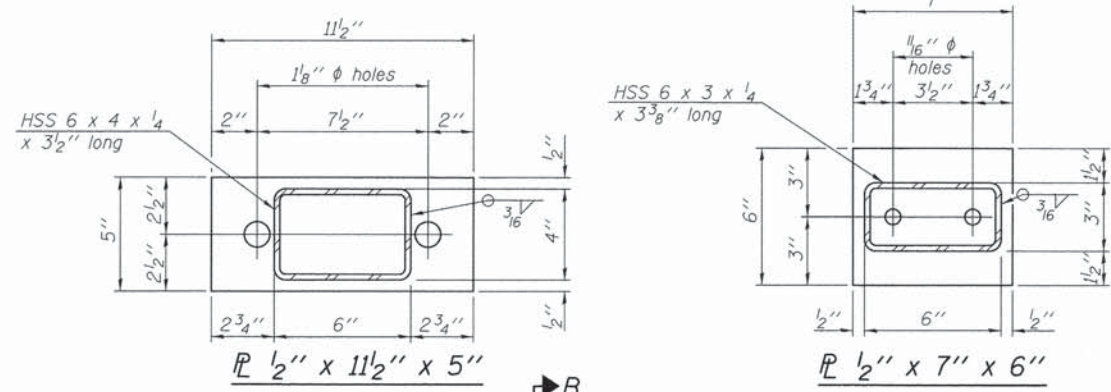
LIFTING LOOP DETAIL

SHEET NO. 3 7 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	554	11-00073-00-BR	MOULTRIE	19	9
S.N. 070-3034			CONTRACT NO. 95778		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-0554(326)					

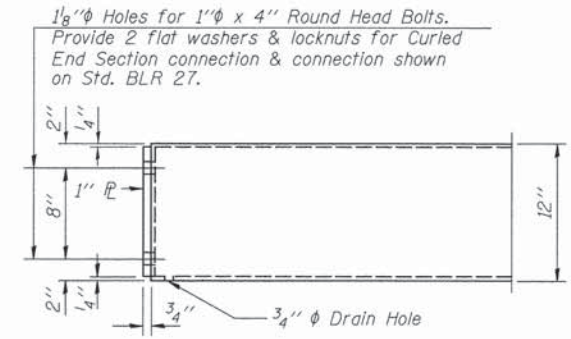
FOR RAIL POST SPACING SEE SH.#5 OF 7



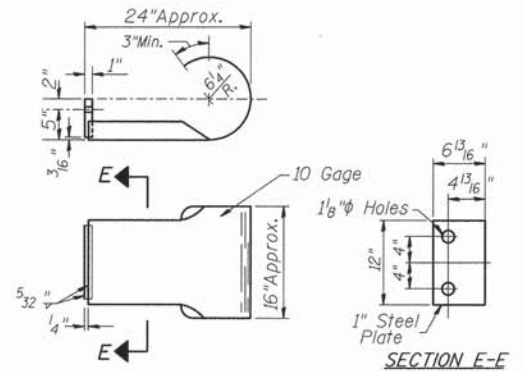
VIEW A-A  
ROUND HEAD BOLT



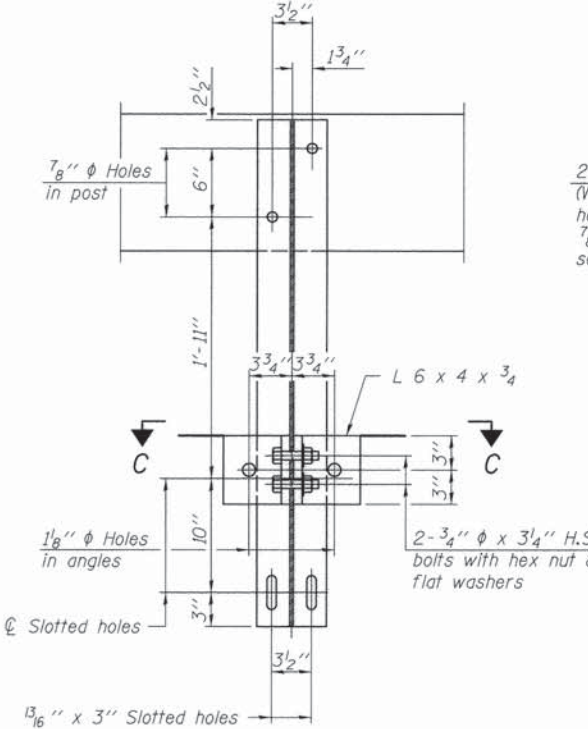
$\bar{P}$  1/2" x 11 1/2" x 5"  
 $\bar{P}$  1/2" x 7" x 6"



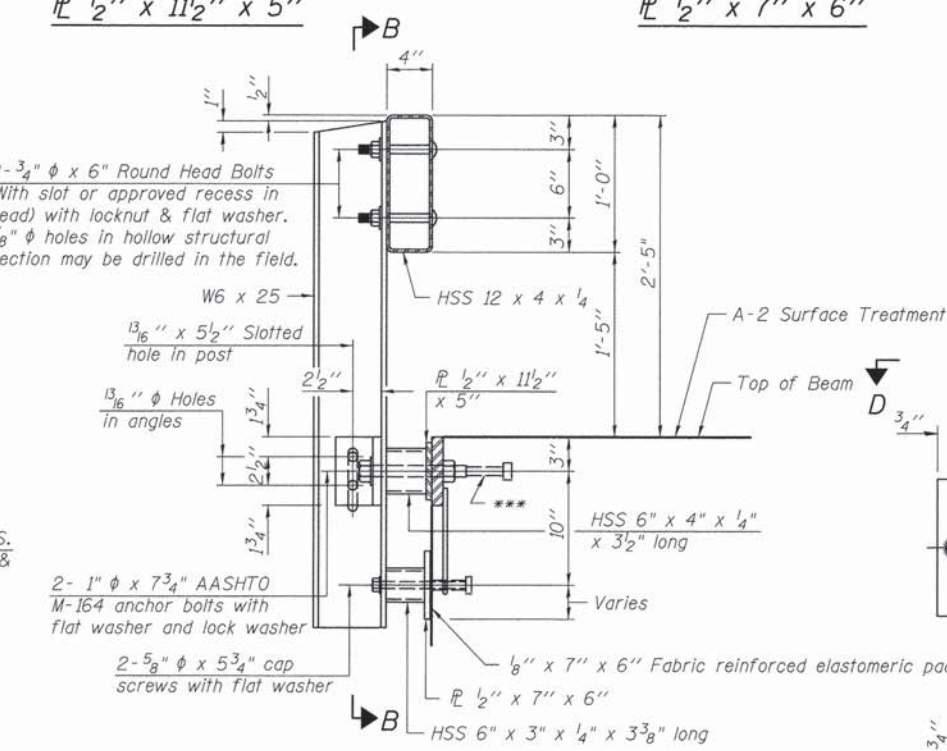
END OF RAIL DETAILS



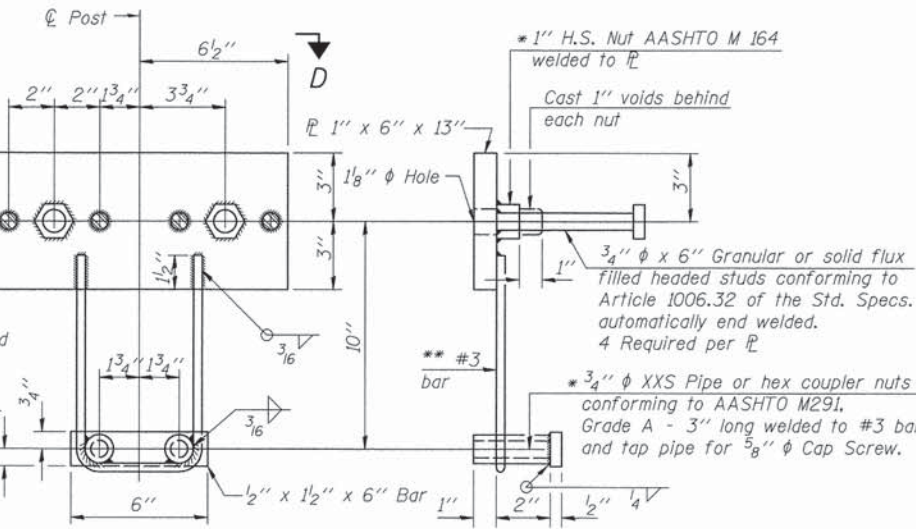
SECTION E-E  
CURLED END SECTION  
(2 Req'd) Cost Included with Steel Railing, Type S-1.  
Terminal Markers - Direct Applied shall be placed on end of each Curled End Section. (N.W. & S.E. Corners)



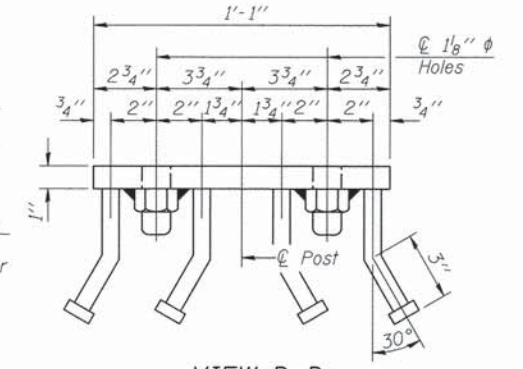
SECTION B-B



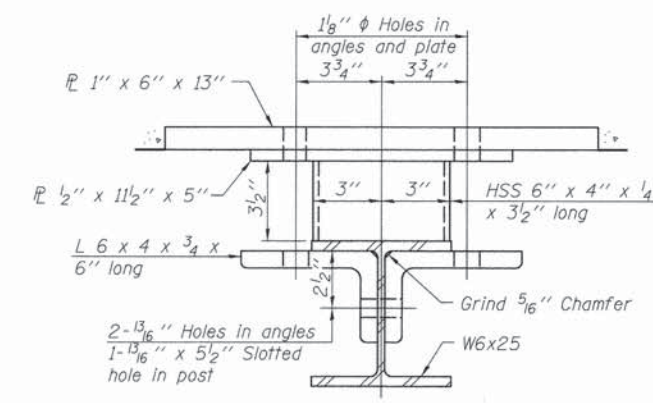
SECTION AT RAILING POST



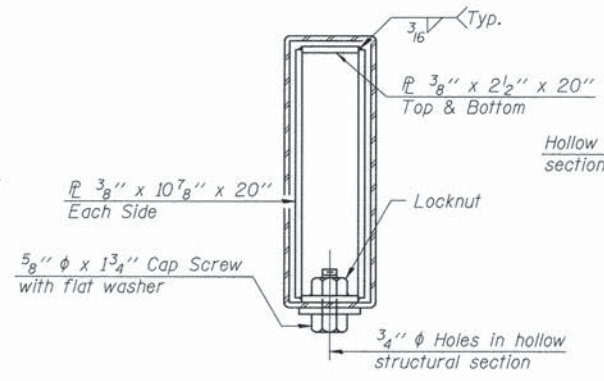
ANCHOR DEVICE



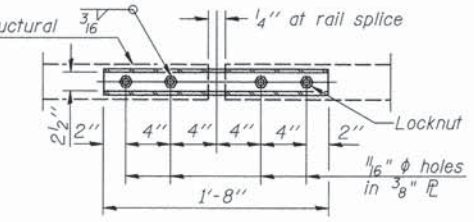
VIEW D-D



SECTION C-C



SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE 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 S-1.

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

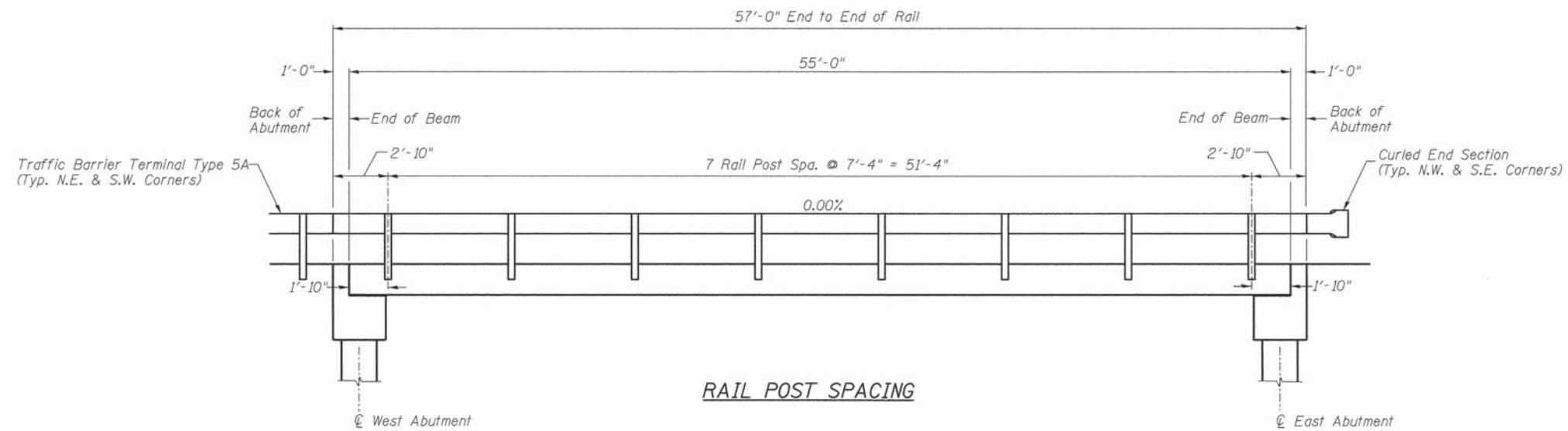
\*\*\* The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

**BILL OF MATERIAL**

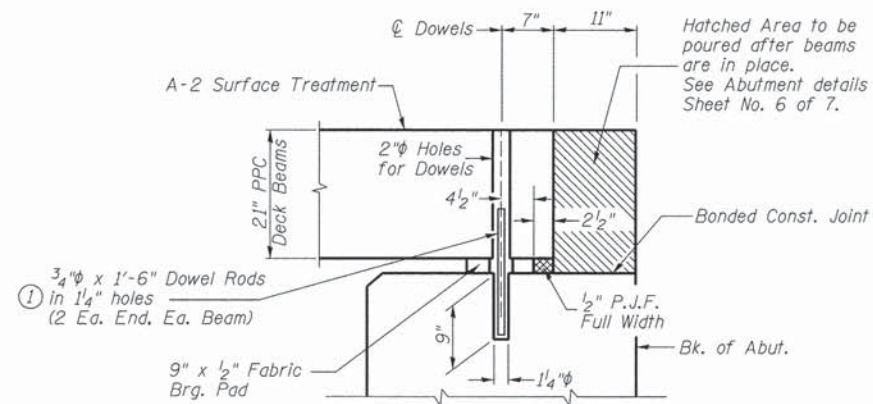
ITEM	UNIT	QUANTITY
Steel Railing, Type S-1	FOOT	114

**STEEL RAILING, TYPE S-1**  
**MOULTRIE COUNTY**  
**SECTION 11-00073-00-BR**  
**C.H. 9 OVER MARROWBONE CREEK**

SHEET NO. 4	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7 SHEETS	554	11-00073-00-BR	MOULTRIE	19	10
S.N. 070-3034			CONTRACT NO. 95778		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-0554(326)					



**RAIL POST SPACING**

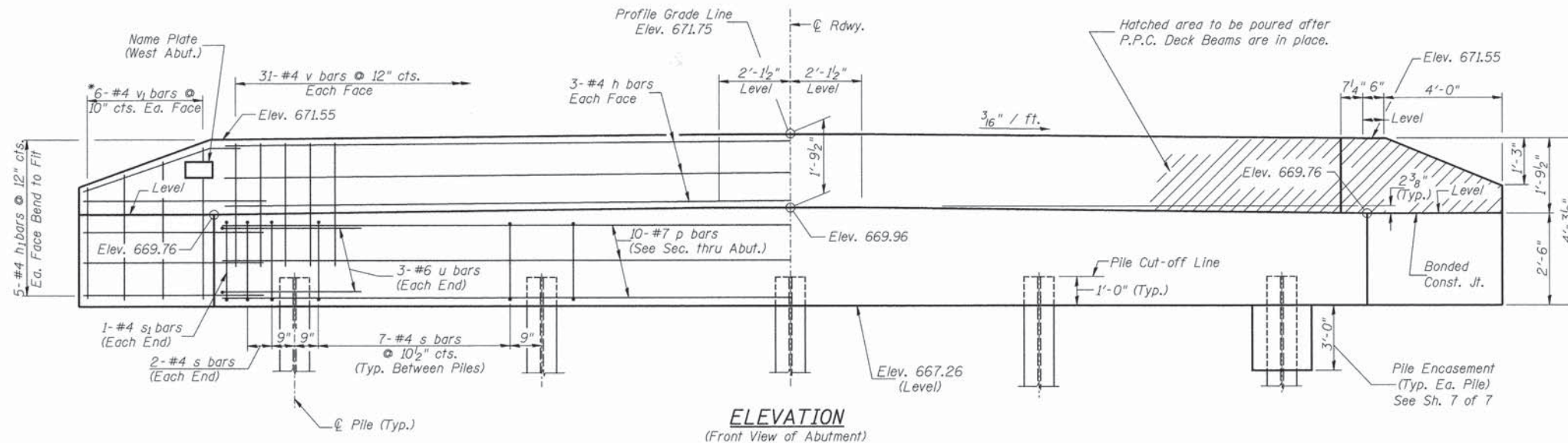
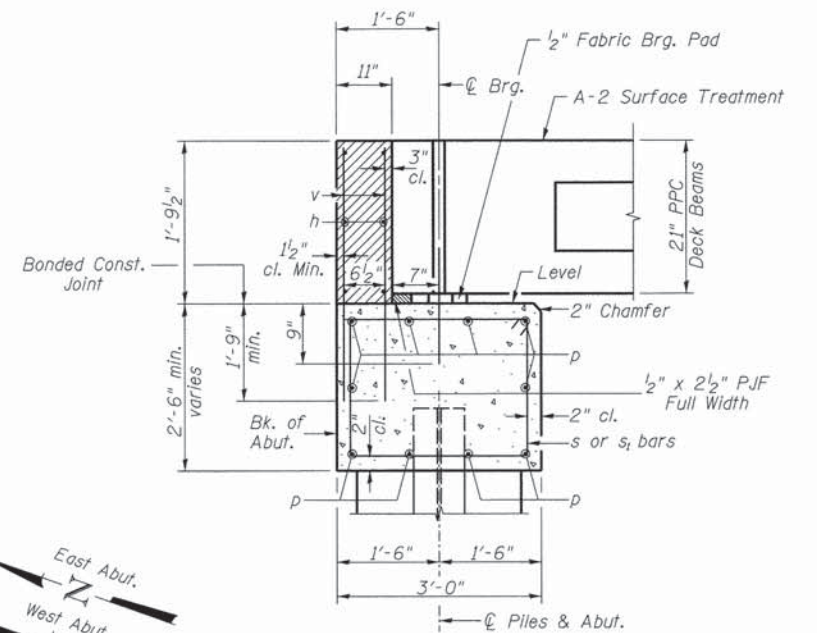
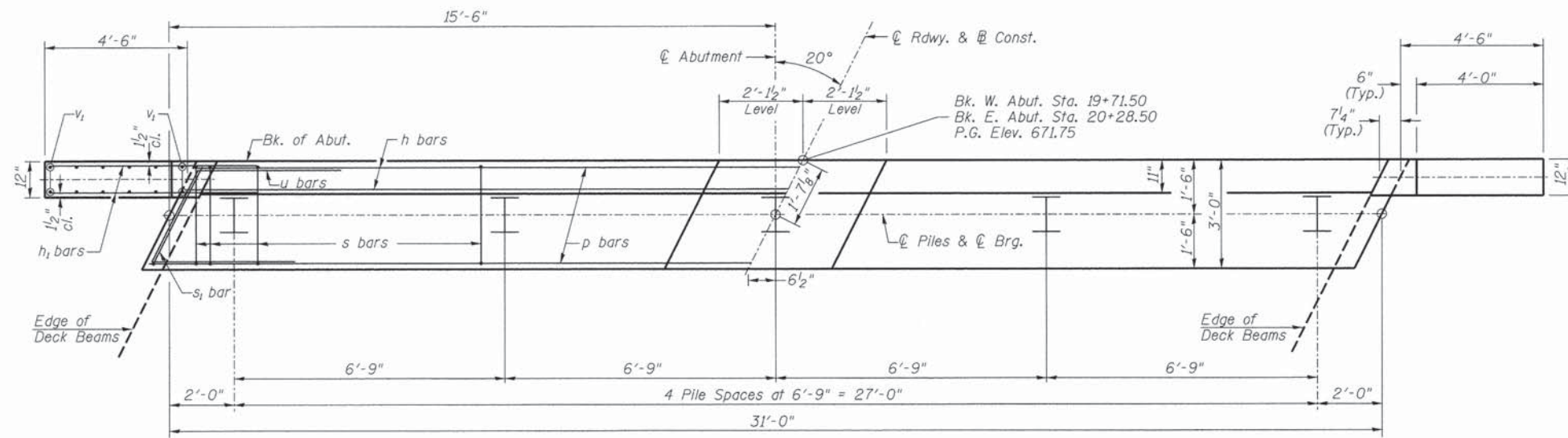


**SECTION THRU ABUTMENTS**  
(At Right Angles)

① Dowel Rods to be grouted after beams are in place and allowed to cure (Min. 24 hr.) prior to grouting the shear keys.

**RAIL POST SPACING AND  
SUPERSTRUCTURE DETAILS  
MOULTRIE COUNTY  
SECTION 11-00073-00-BR  
C.H. 9 OVER MARROWBONE CREEK**

SHEET NO. 5	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	554	11-00073-00-BR	MOULTRIE	19	11
7 SHEETS	S.N. 070-3034		CONTRACT NO. 95778		
	FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT BRS-0554(326)	



**TWO ABUTMENTS  
BILL OF MATERIAL**

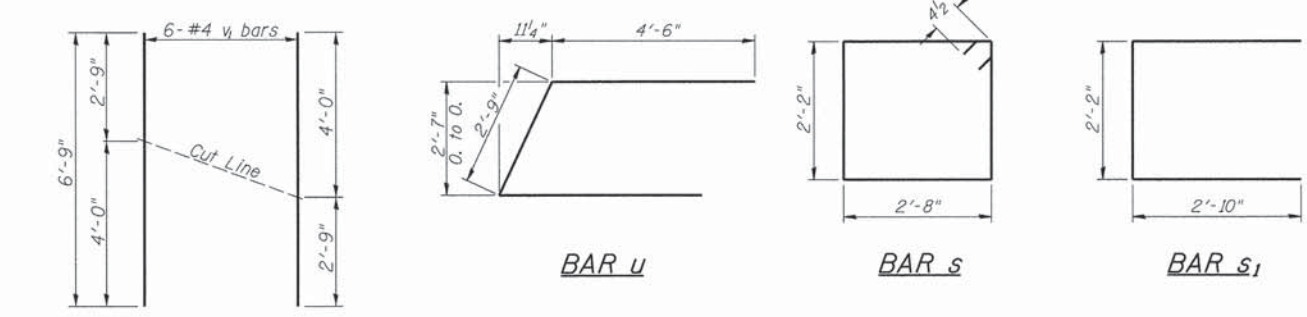
BAR NO.	SIZE	LENGTH	SHAPE
h	#4	30'-9"	—
h <sub>1</sub>	#4	6'-6"	—
p	#7	30'-9"	—
s	#4	10'-5"	□
s <sub>1</sub>	#4	7'-10"	□
u	#6	11'-9"	└
v	#4	3'-6"	—
v <sub>1</sub>	#4	6'-9"	—
Concrete Structures			CU YD 24.3
Reinforcement Bars			POUND 2,750
Structure Excavation			CU YD 80
Name Plates			EACH 1
Furnishing Steel Piles HP10x42			FOOT 264
Driving Piles			FOOT 264
Test Pile Steel HP10x42			EACH 2
Concrete Encasement			CU YD 3.5

① See Special Provisions

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

**PILE DATA**  
 Type & Size: Steel HP10x42  
 Nominal Required Bearing: 213 kips  
 Factored Resistance Available: 117 kips  
 Est. Length: 33' West Abutment  
 33' East Abutment  
 No. Req'd.: 10 (Includes 1 Test Pile at Each Abut.)

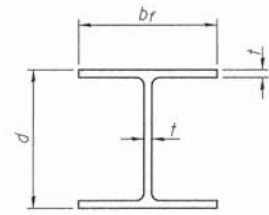
**NOTES**  
 1. The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.  
 2. Reinforcement bars shall conform to ASTM A706 Grade 60.



\*Order v<sub>1</sub> bars full length. Cut as shown and use remainder of bars in opposite face.

**ABUTMENTS  
MOULTRIE COUNTY  
SECTION 11-00073-00-BR  
C.H. 9 OVER MARROWBONE CREEK**

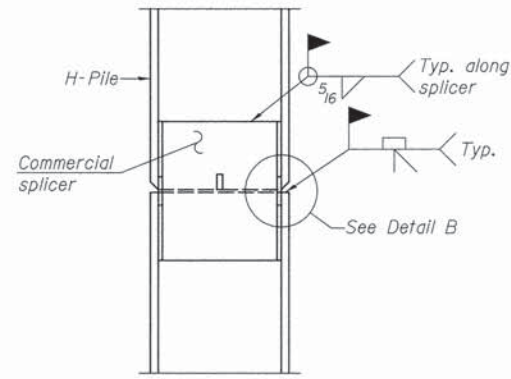
SHEET NO. 6 7 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	554	11-00073-00-BR	MOULTRIE	19	12
S.N. 070-3034			CONTRACT NO. 95778		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-0554(326)					



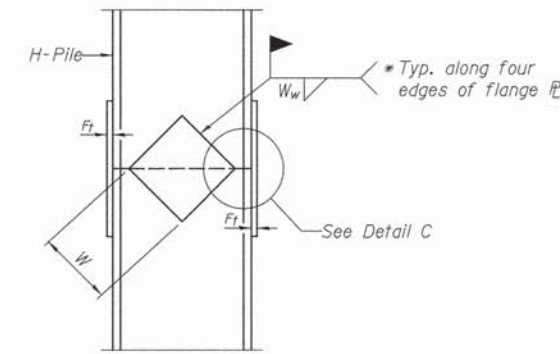
**STEEL PILE TABLE**

Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	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"	11/16"	24"
x74	12 1/8"	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"

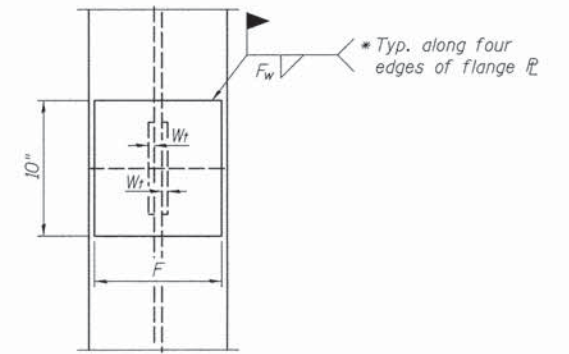
Note:  
The steel H-piles shall be according to  
AASHTO M270 Grade 50.



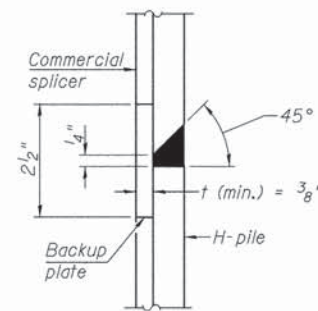
**ELEVATION**



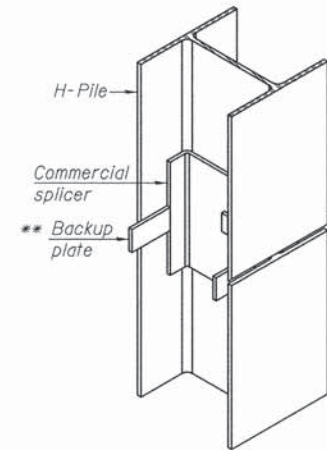
**ELEVATION**



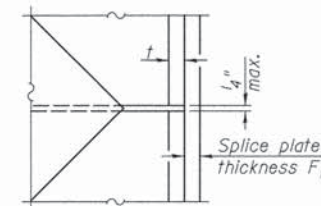
**END VIEW**



**DETAIL "B"**



**ISOMETRIC VIEW**

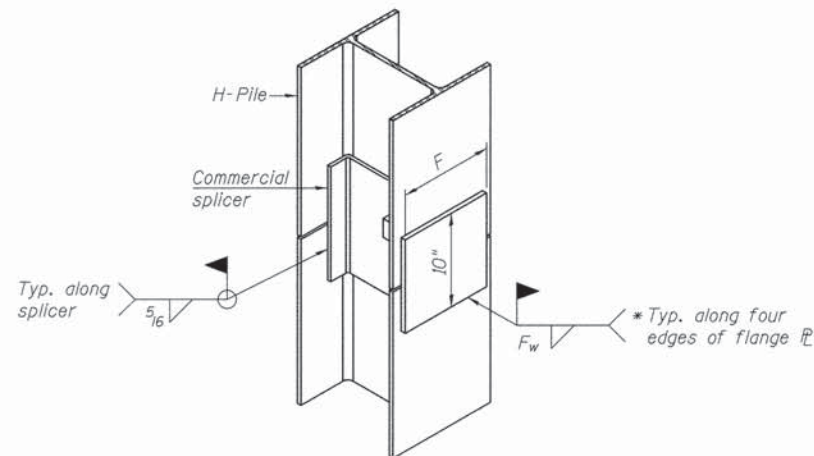


**DETAIL C**

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	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"

**WELDED COMMERCIAL SPLICE**

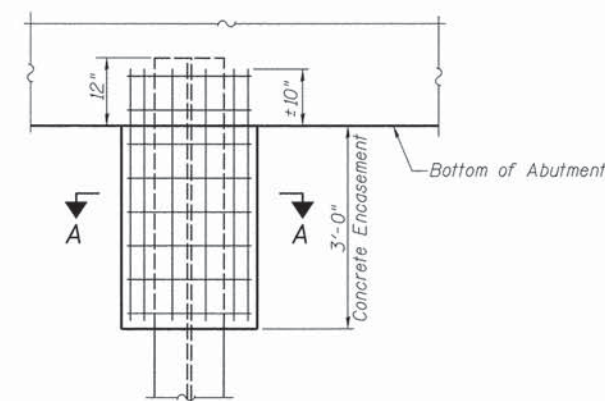
**WELDED PLATE FIELD SPLICE**



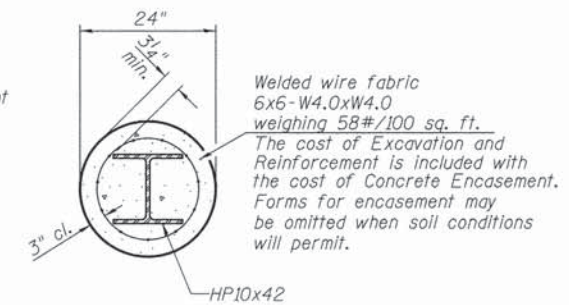
**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

\* Interrupt welds 1/4" from end of web and/or each flange.  
\*\* Remove portions of backup plates that extend outside the flanges.



**ABUTMENT ELEVATION**



**SECTION A-A**

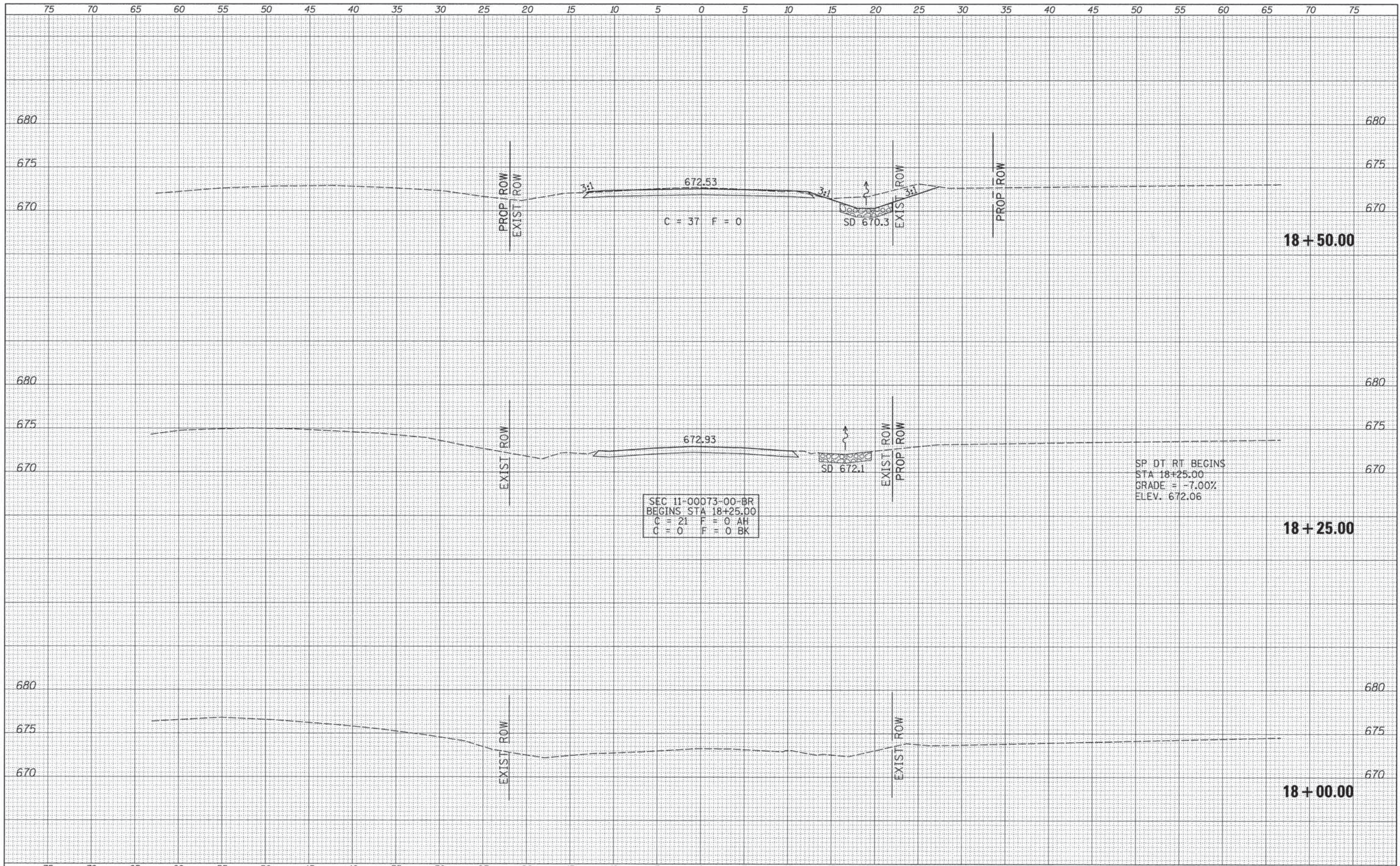
**PILE ENCASEMENT**

**PILE DETAILS**  
**MOULTRIE COUNTY**  
**SECTION 11-00073-00-BR**  
**C.H. 9 OVER MARROWBONE CREEK**

SHEET NO. 7	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7 SHEETS	554	11-00073-00-BR	MOULTRIE	19	13
S.N. 070-3034			CONTRACT NO. 95778		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-0554(326)					

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

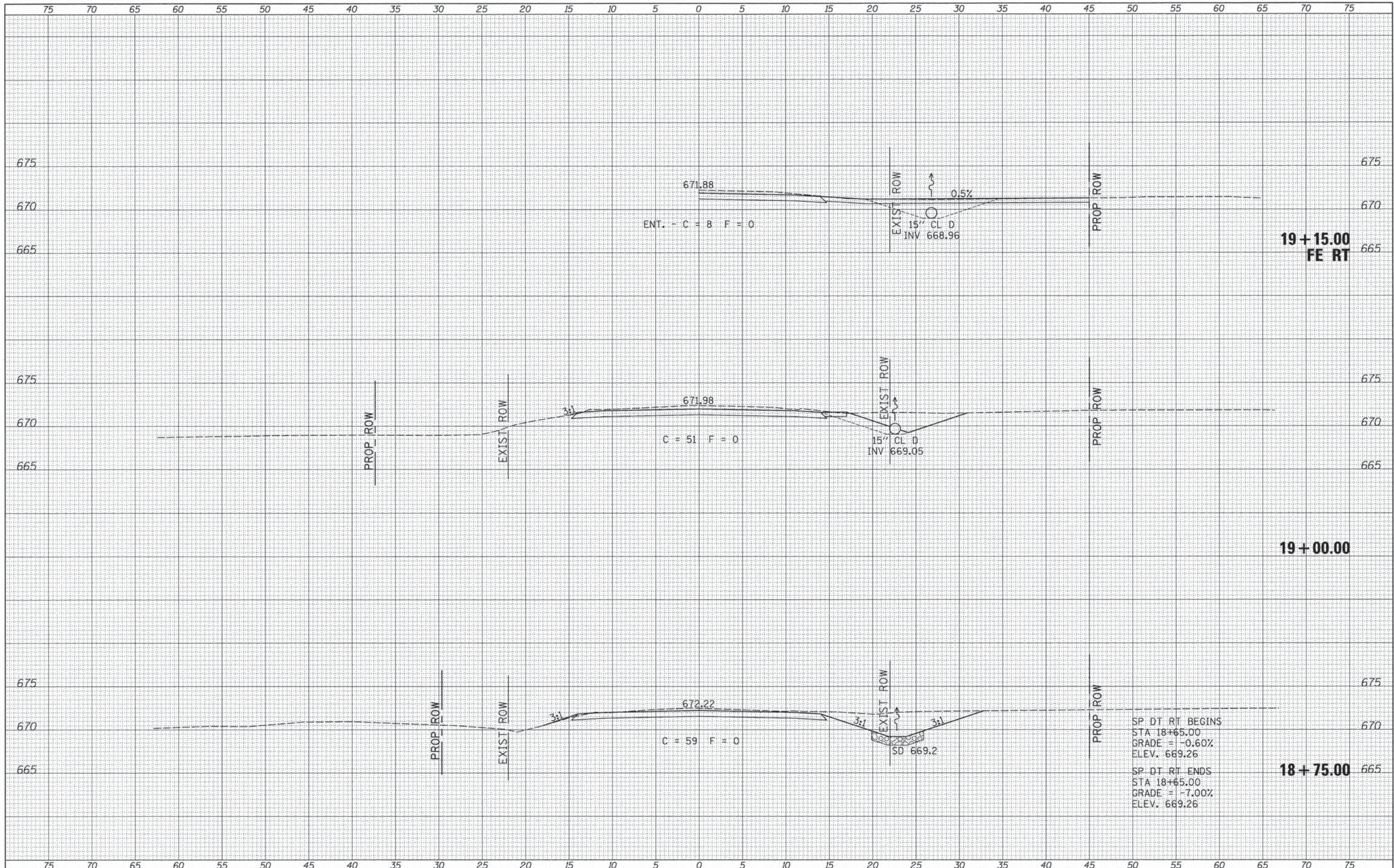
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



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#MODELNAME#	PLOT SCALE = 5.00000' / in.	DRAWN -	REVISED -			SCALE: 1"=5'	SHEET 1 OF 6 SHEETS	STA. 18+00.00 TO STA. 18+50.00	CONTRACT NO. 95778		
	PLOT DATE = 12/8/2015	CHECKED -	REVISED -					FED. ROAD DIST. NO. 7 (ILLINOIS)		FED. AID PROJECT BR5-0554(326)	
		DATE -	REVISED -								

DATE	
BY	
SURVEYED	
NOTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
NOTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



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 PLOT DATE = 12/8/2015

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

**MOULTRIE COUNTY  
 COUNTY HIGHWAY 9  
 OVER MARROWBONE CREEK**

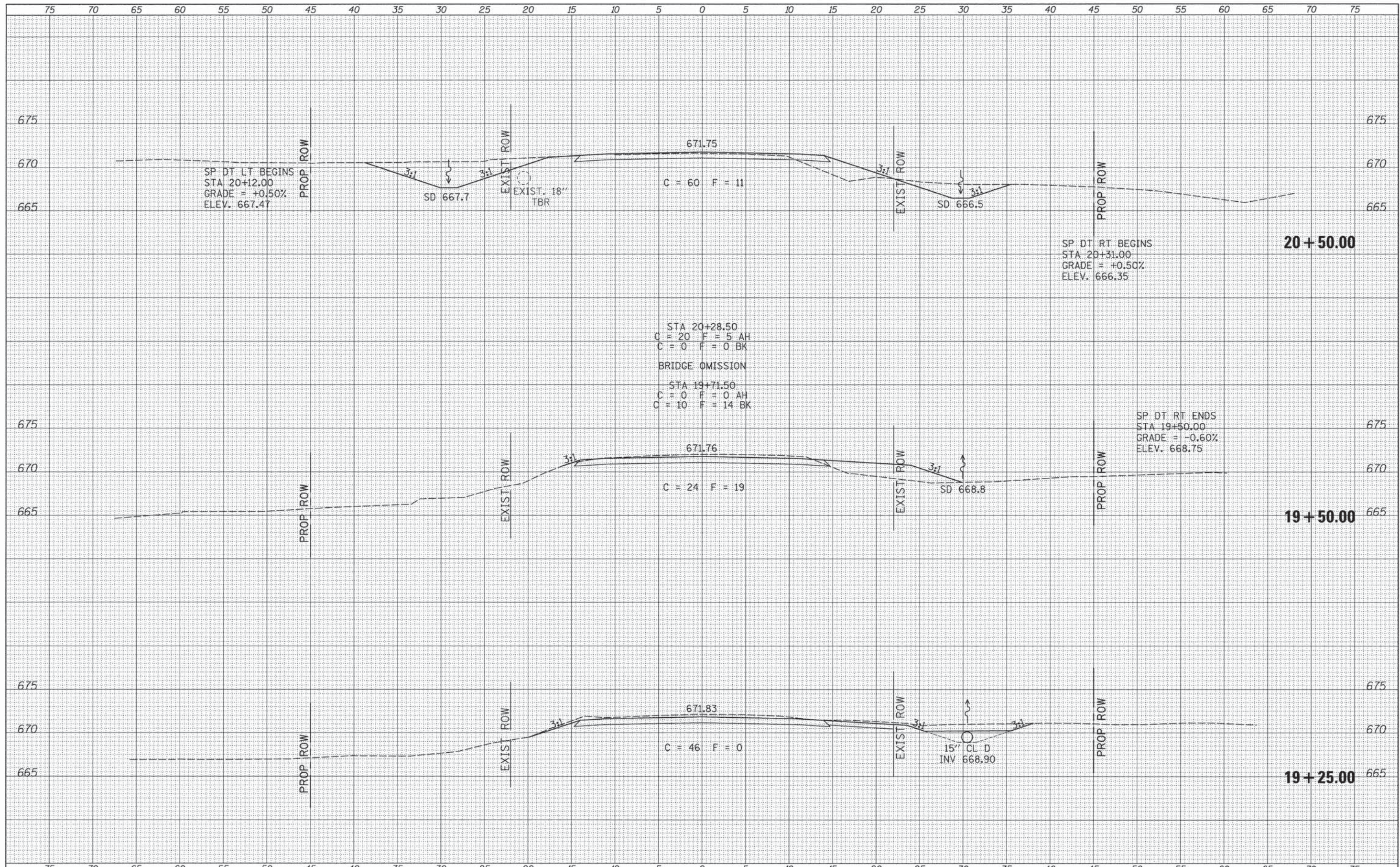
SCALE: 1"=5' SHEET 2 OF 6 SHEETS STA. 18+75.00 TO STA. 19+15.00

**CROSS SECTIONS**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
554	11-00073-00-BR	MOULTRIE	19	15
CONTRACT NO. 95778			FED. ROAD DIST. NO. 7 ILLINOIS	
FED. AID PROJECT BR5-0554(326)				

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
REVISIONS	
NO.	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
REVISIONS	
NO.	



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PLOT DATE = 12/8/2015	DATE -	REVISED -

**MOULTRIE COUNTY  
 COUNTY HIGHWAY 9  
 OVER MARROWBONE CREEK**

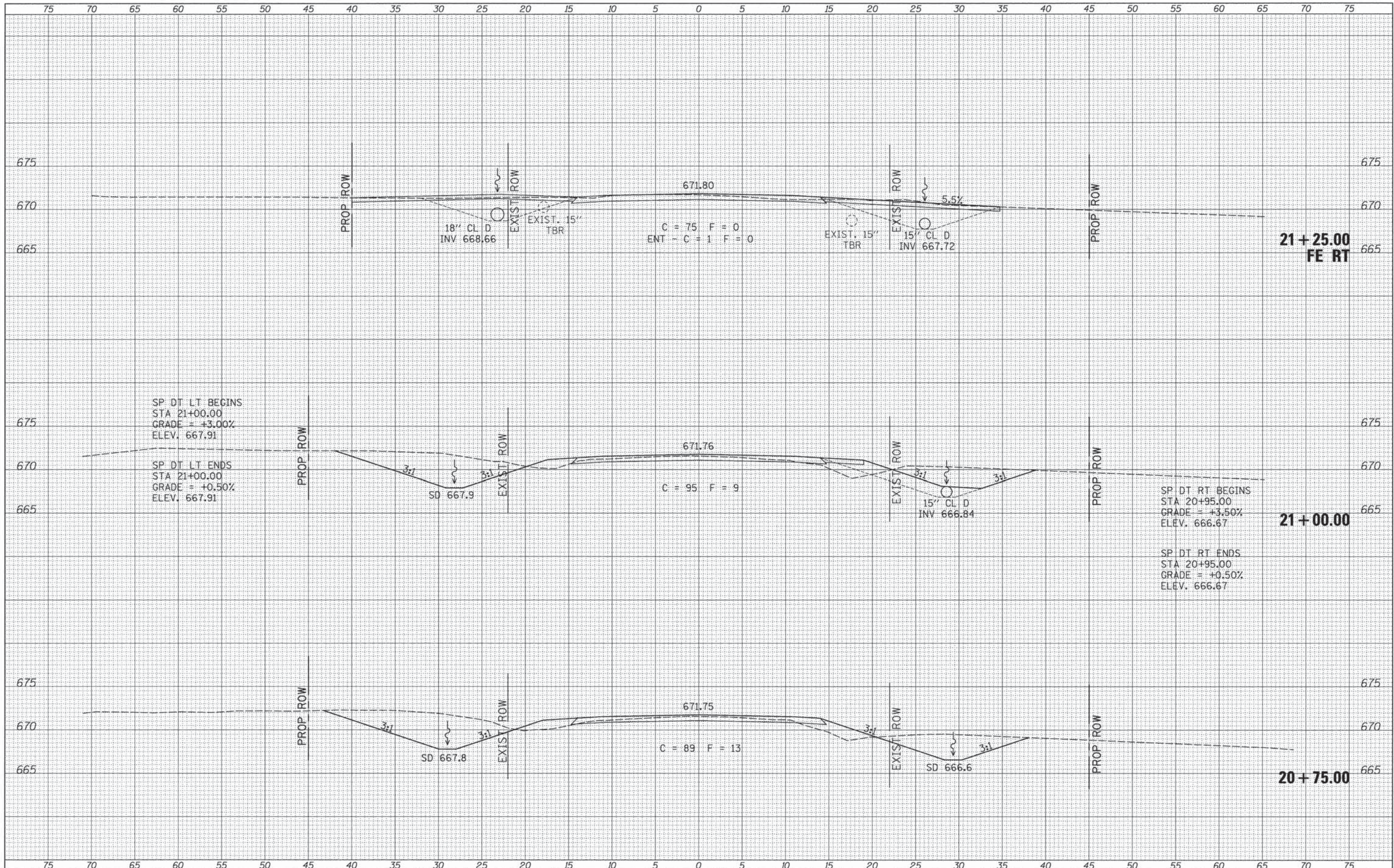
CROSS SECTIONS  
 SCALE: 1"=5'  
 SHEET 3 OF 6 SHEETS STA. 19+25.00 TO STA. 20+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
554	11-00073-00-BR	MOULTRIE	19	16
CONTRACT NO. 95778			FED. ROAD DIST. NO. 7 ILLINOIS	
FED. AID PROJECT BRS-0554(326)				



DATE	
BY	
SUBMITTED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINISH	
NO. 1	

DATE	
BY	
SUBMITTED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL	
NO. 1	



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DATE -	REVISED -

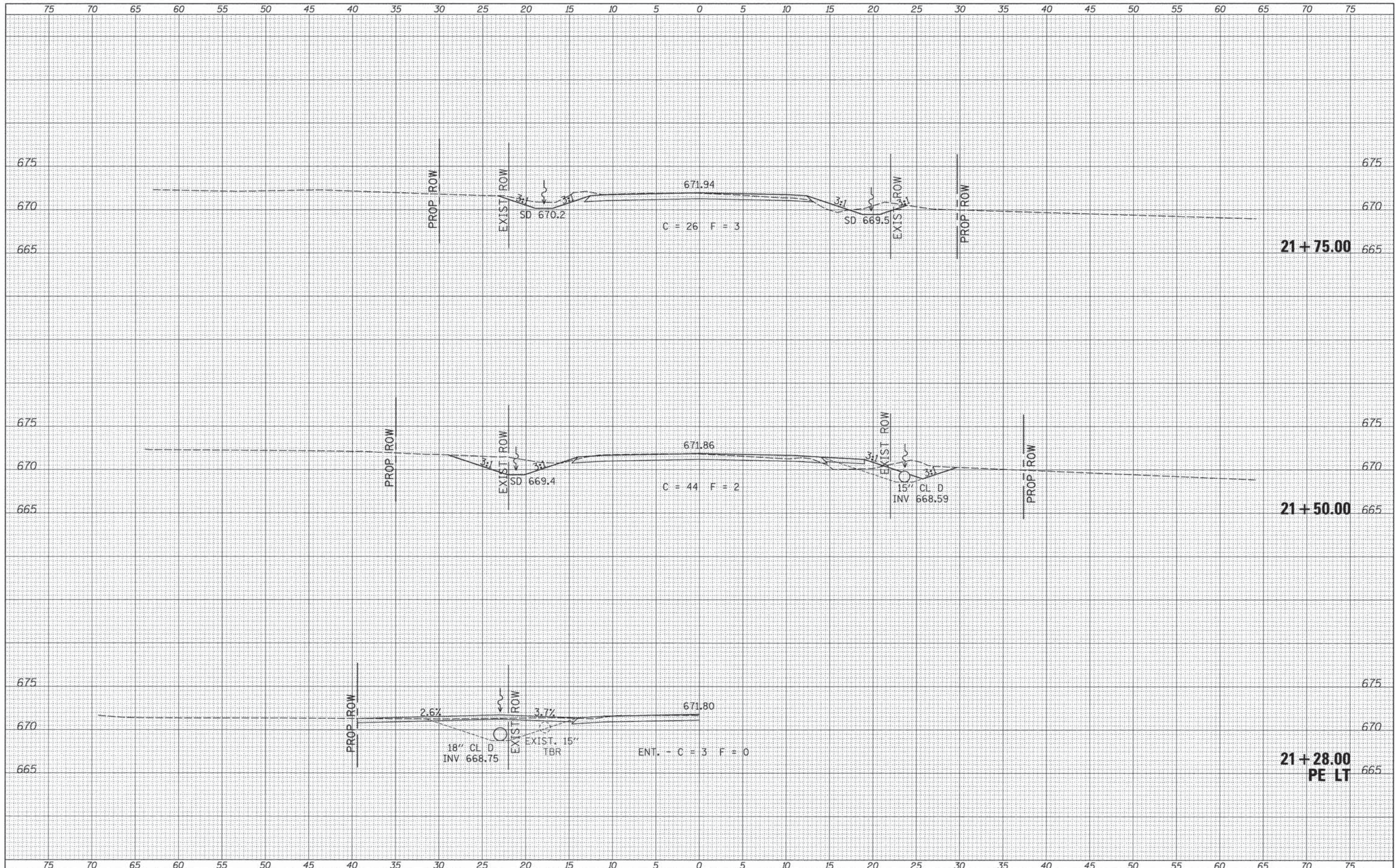
**MOULTRIE COUNTY  
 COUNTY HIGHWAY 9  
 OVER MARROWBONE CREEK**

**CROSS SECTIONS**  
 SCALE: 1"=5'  
 SHEET 4 OF 6 SHEETS  
 STA. 20+75.00 TO STA. 21+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
554	11-00073-00-BR	MOULTRIE	19	17
CONTRACT NO. 95778				
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0554(326)	

DATE	
BY	
FINISHED SURVEY	
NOTE BOOK	
NO.	
SURVEYED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
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PLOT SCALE = 5.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 12/8/2015	CHECKED -	REVISED -
	DATE -	REVISED -

**MOULTRIE COUNTY  
 COUNTY HIGHWAY 9  
 OVER MARROWBONE CREEK**

**CROSS SECTIONS**  
 SCALE: 1"=5'  
 SHEET 5 OF 6 SHEETS  
 STA. 21+28.00 TO STA. 21+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
554	11-00073-00-BR	MOULTRIE	19	18
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BR5-0554(326)	

