

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL-AID B.R.R. PROGRAM
JASPER COUNTY
SECTION 05-00100-00-BR
STRUCTURE NO. 040-3250
PROJECT NO. BROS-079(129)
JOB NO. C-97-095-05
CH 14

INDEX OF SHEETS

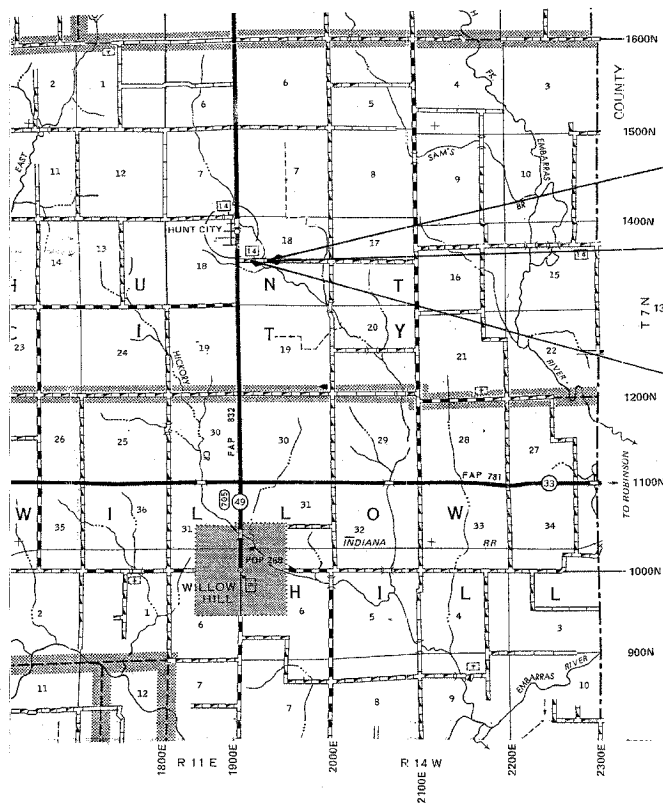
1	COVER SHEET
2	PLAN & PROFILE
3	CROSS SECTIONS
4-11	BRIDGE PLANS

STANDARDS: 280001-02 - EROSION CONTROL
(SEE PROPOSAL) 702001-05 - TRAFFIC
BLR 21-6 - TRAFFIC
BLR 22-4 - TRAFFIC

QUANTITY	UNIT	ITEM	CODE NO.
202	CU YD	EARTH EXCAVATION	20200100
100	CU YD	CHANNEL EXCAVATION	20300100
327	CU YD	FURNISHED EXCAVATION	20400800
0.6	ACRE	SEEDING, CLASS 2 (SPECIAL)	25001000
8	EACH	TEMPORARY DITCH CHECKS	28000300
48	FOOT	PERIMETER EROSION BARRIER	28000400
108	TON	STONE DUMPED RIPRAP, CLASS A4	28100807
22	TON	STONE RIPRAP DITCH	28102600
1	EACH	REMOVAL OF EXISTING STRUCTURES	50100100
19.8	CU YD	CONCRETE STRUCTURES	50300225
1400	SQ FT	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	50400405
1940	POUND	REINFORCEMENT BARS	50800105
100	FOOT	STEEL RAILING, TYPE S1	50900205
252	FOOT	FURNISHING STEEL PILES HP 10X42	51201400
252	FOOT	DRIVING STEEL PILES	51202700
1	EACH	TEST PILE STEEL HP 10X42	51203400
2.6	CU YD	CONCRETE ENCASEMENT	51204315
1	EACH	NAME PLATES	51500100
66	FOOT	PIPE CULVERTS, CLASS D, TYPE 1 15"	542D0220
1	L SUM	MOBILIZATION	67100100
1	L SUM	TRAFFIC CONTROL AND PROTECTION	70101700

SCALES

PLAN	1 INCH = 50 FEET
PROFILE HORZ.	1 INCH = 50 FEET
PROFILE VERT.	1 INCH = 10 FEET
CROSS SECTIONS	1 INCH = 5 FEET



SECTION 05-00100-00-BR
ENDS STA. 8+00

STA. 3+65-STANDARD BRIDGE DESIGN
PROPOSED PRECAST PRESTRESSED CONC.
DECK BEAM BRIDGE, 1 SPAN @ 50'
28' RDWY.
PROPOSED STR. NO. 040-3250
EXISTING STR. NO. 040-3036

SECTION 05-00100-00-BR
BEGINS STA. 2+00

FUNCTIONAL CLASS: RURAL MINOR COLLECTOR
ADT = 100

CONTRACT NO. 95440

TOLL FREE JOINT UTILITY LOCATING
INFORMATION FOR EXCAVATORS (J.U.L.I.E.)
TELEPHONE NO. 1-800-892-0123

LOCATION MAP

APPROXIMATE SCALE: 1 INCH = 1 MILE
NET LENGTH = 600 FT. = 0.114 MILES

PROFESSIONAL DESIGN FIRM #184-000832

Michael R. ...
ILLINOIS REGISTERED PROFESSIONAL ENGINEER # 31350
LICENSE EXPIRES NOVEMBER 30, 2005

APPROVED *6-21-05*, 2005

Richard A. Pettinone
COUNTY ENGINEER

PASSED *12/23*, 2005

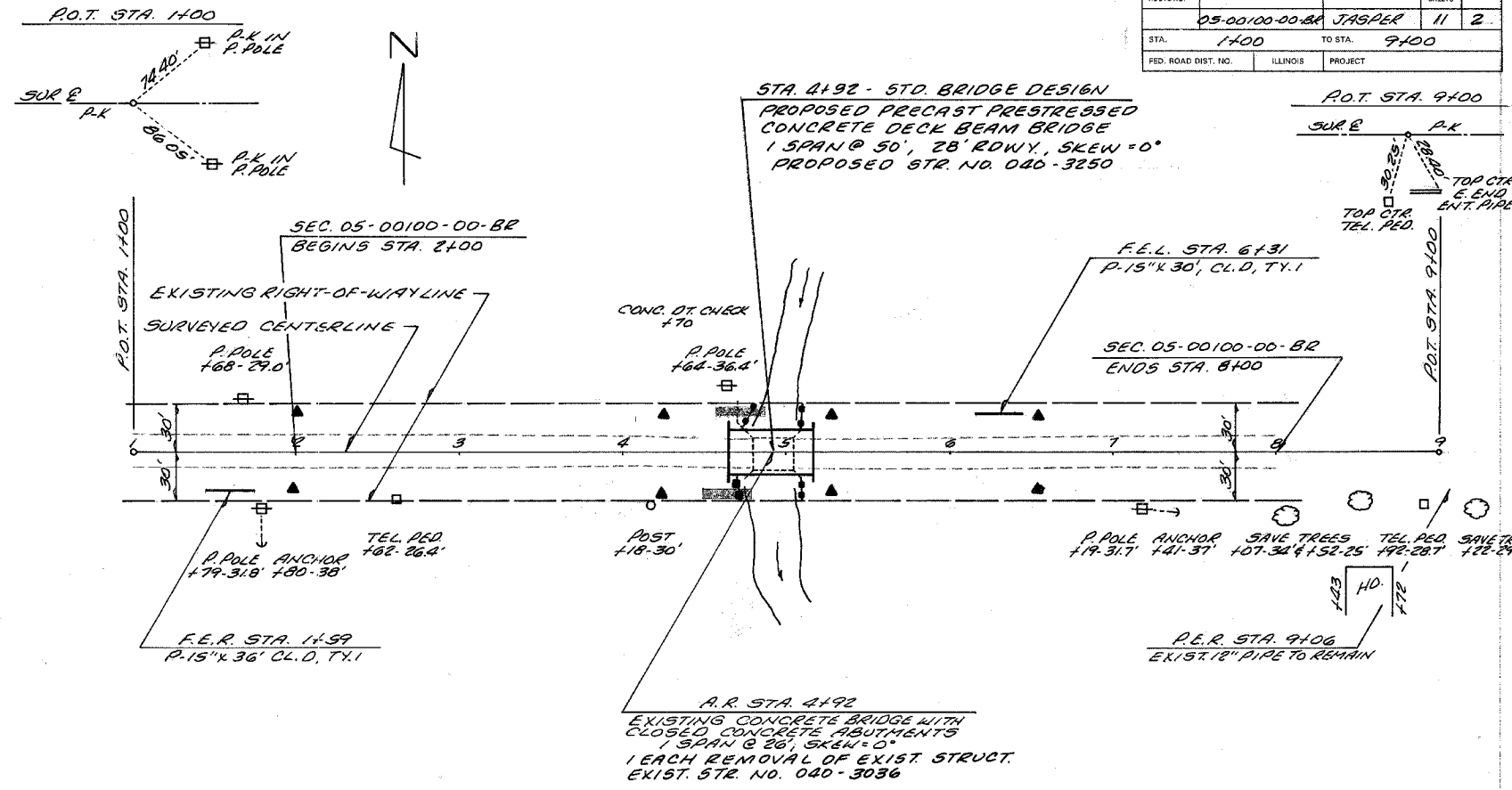
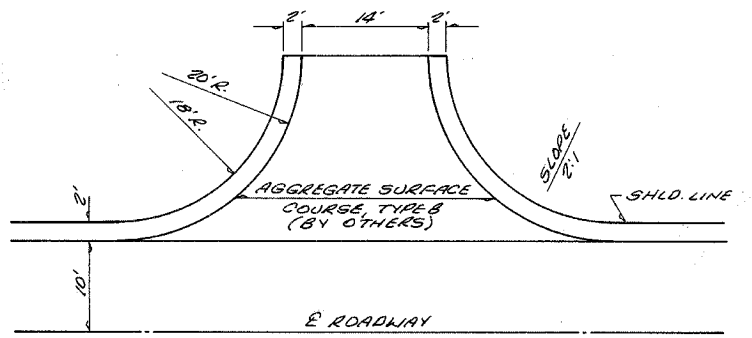
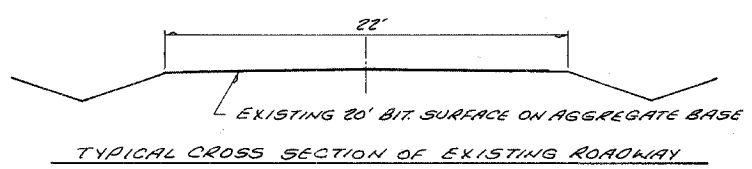
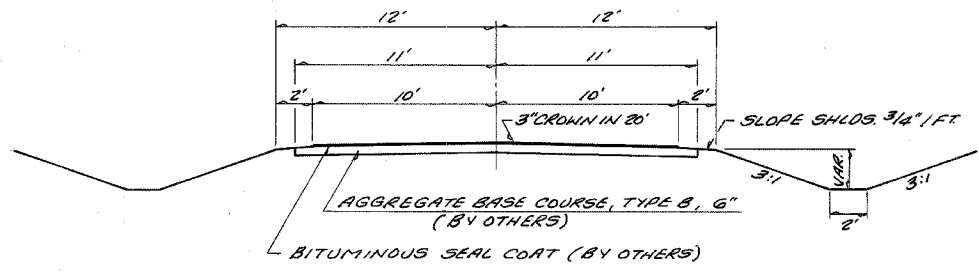
Moussa El Kastl
DISTRICT SEVEN ENGINEER
OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED
ON LIMITED REVIEW

12-23, 2005

Christina M. Ravelo
DEPUTY DIRECTOR OF HIGHWAYS
REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.R. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
05-00100-00-BR	JASPER	11	2	
STA.	1400	TO STA.	9400	
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		



B.M. #1 ELEV. 509.99
P.K. IN POWER POLE
31.8' RT. STA. 1479

EARTHWORK SCHEDULE	
EARTH EXCAVATION =	202 CU. YD.
EARTH EXCAVATION ADJUSTED 25% =	152 CU. YD.
CHANNEL EXCAVATION =	100 CU. YD.
CHANNEL EXCAVATION ADJUSTED 25% =	75 CU. YD.
EMBANKMENT =	554 CU. YD.
FURNISHED EXCAVATION =	327 CU. YD.

CONSTRUCT TRANSITIONS

FROM EXIST. ROWY. TO PROP. 28' ROWY.
STA. 1450 TO STA. 2400
STA. 8400 TO STA. 8476

FROM PROP. 28' ROWY. TO PROP. 28' ROWY.
STA. 417 TO STA. 4167
STA. 5417 TO STA. 5467

QUANTITIES INCLUDED IN THOSE LISTED

B.M. #2 ELEV. 503.49
P.K. IN POWER POLE
31.7' RT. STA. 7419

STONE RIPRAP DITCH CL. #2

LT. STA. 4155 TO STA. 4185 = 11 TON
RT. STA. 4150 TO STA. 4180 = 11 TON
TOTAL = 22 TON

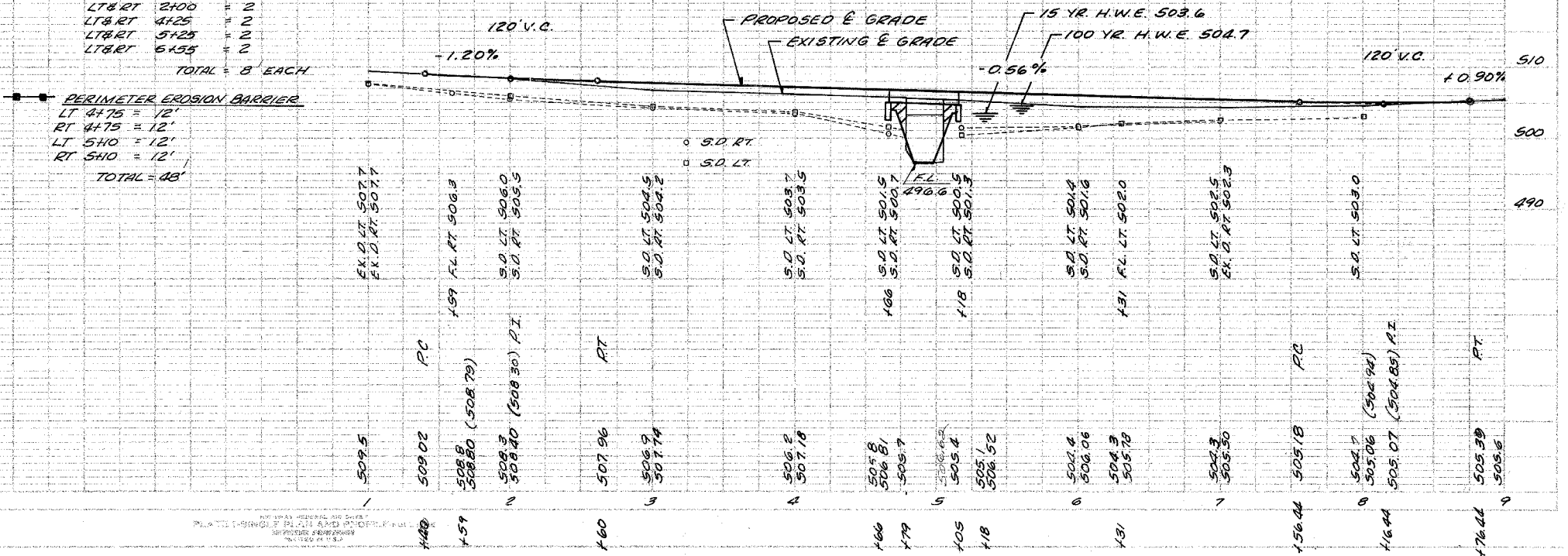
SEEDING CL. 2 SPECIAL
STA. 1450 TO 8476 = 0.5 ACRES

- ▲ TEMPORARY DITCH CHECKS
- LT & RT 2400 = 2
 - LT & RT 4125 = 2
 - LT & RT 5425 = 2
 - LT & RT 6455 = 2
- TOTAL = 8 EACH
- PERIMETER EROSION BARRIER
- LT 4475 = 12'
 - RT 4475 = 12'
 - LT 5470 = 12'
 - RT 5470 = 12'
- TOTAL = 48'

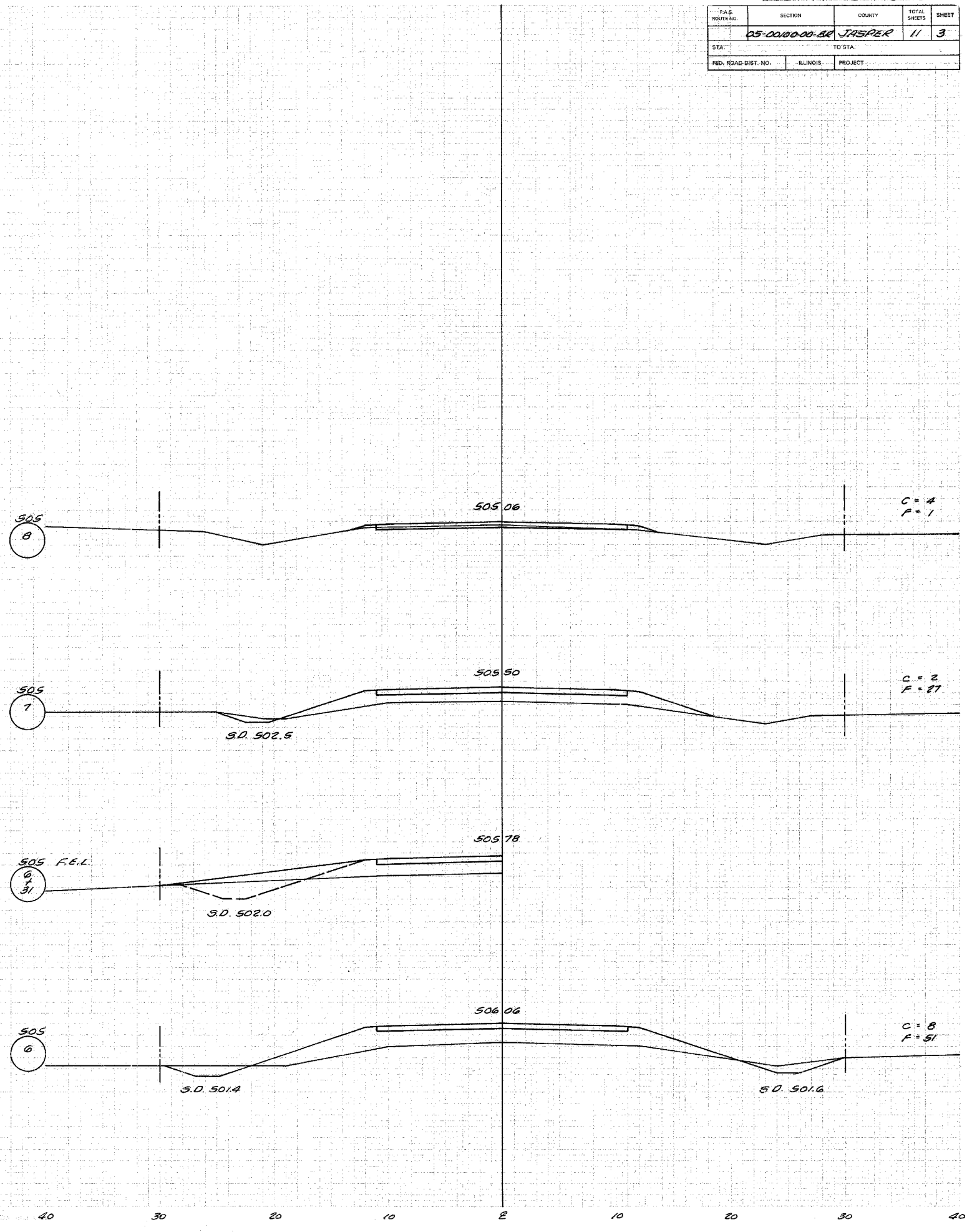
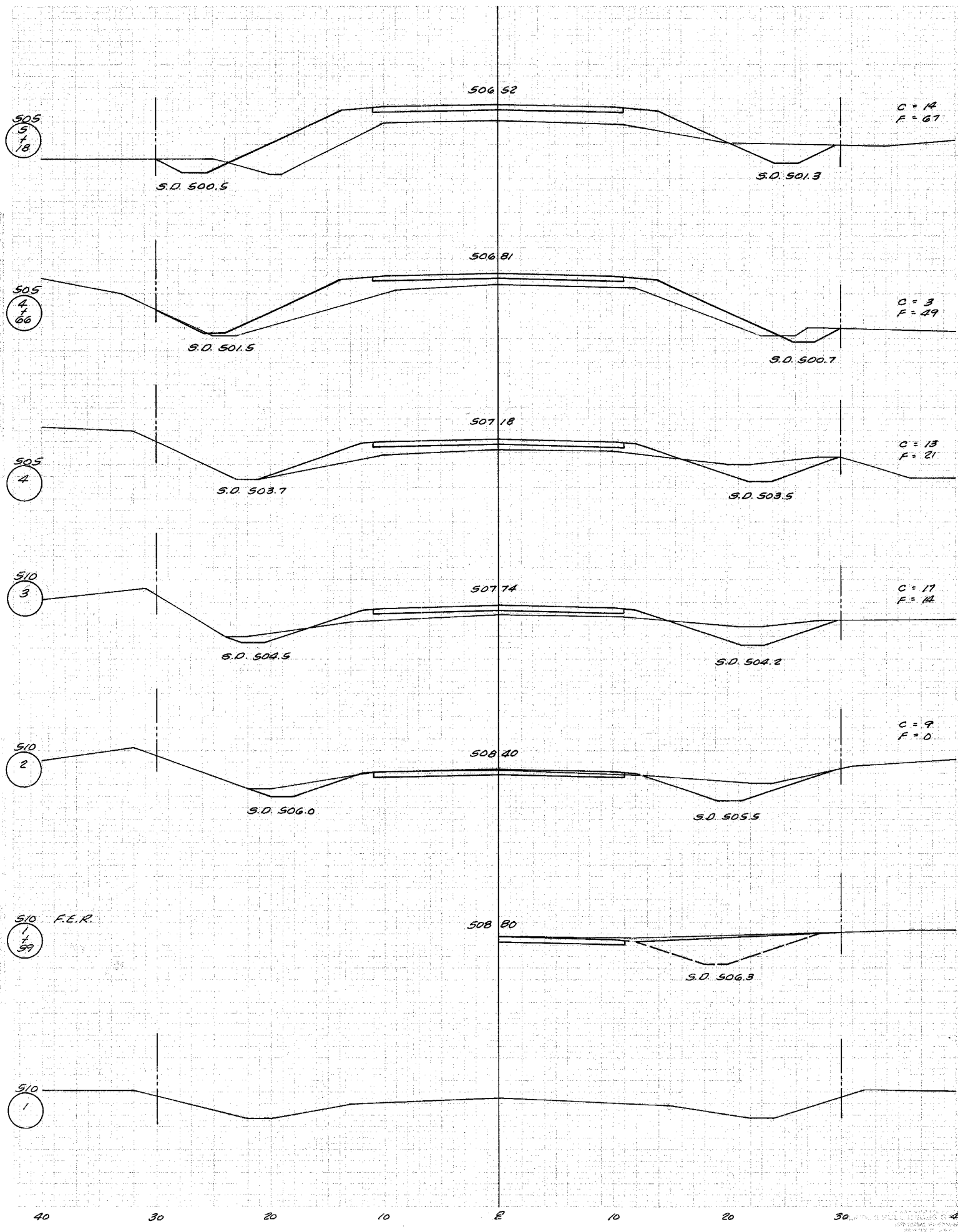
UTILITIES

TELEPHONE: VERIZON
225 E. CHESTNUT
OLNEY, IL 62450
618-395-6189

ELECTRIC: NORRIS ELECTRIC CO-OP
8543 NORTH STATE HIGHWAY 130
NEWTON, IL 62448
618-783-8765



F.A.S. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
05-0000-00-80	JASPER		11	3
STA. TO STA.				
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

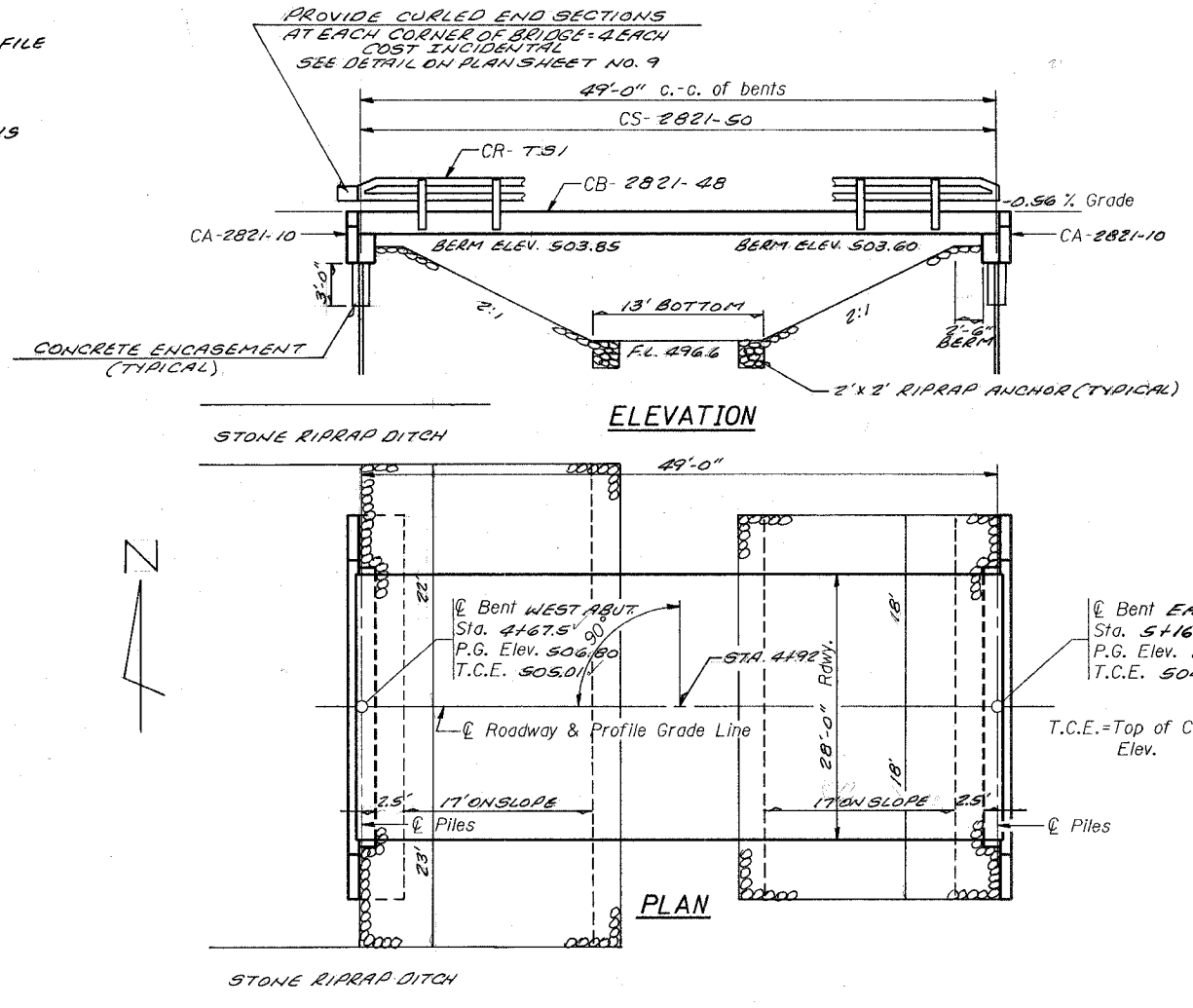


40 30 20 10 0 10 20 30 40 40 30 20 10 0 10 20 30 40

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	JASPER	11	4	
FED. ROAD DIST. NO. 7		BALANCE	FED. AID PROJECT	

* 05-00100-00-BR

B.M. - SEE PLAN-PROFILE
 Existing Structure - SEE PLAN-PROFILE
 Salvage - SEE SPECIAL PROVISIONS



GENERAL NOTES

- The Contractor shall drive / test piles, as specified, in a permanent location as directed by the Engineer before ordering the remaining piles.
- See Special Provisions for boring logs.
- A Calcium Nitrite Corrosion inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.		Total
			Piers	Abuts.	
Removal of Existing Structures	Each				1
Bituminous Concrete Surface Course, Class I	Ton				
Waterproofing Membrane System - Concrete Structures	Sq. Yd.			19.8	19.8
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	1400			1400
Steel Bridge Rail, Type SM	Foot				
Steel Railing, Type S-1	Foot	100			100
Reinforcement Bars	Pound		1940		1940
Furnishing STEEL PILES HP10X42	Foot		252		252
Driving STEEL PILES	Foot		252		252
Test Piles STEEL HP10X42	Each		1		1
Name Plates	Each				1
Class II Concrete Encasement	Cu. Yd.			2.6	2.6
STONE DUMPED RIPRAP CL. AA	TON				108

NOTE:
 The Article or Section numbers referencing the Standard Specifications for Road and Bridge Construction as shown on the standard bridge plan sheets included with the contract plans should be interpreted as referring to the current edition of the Standard Specification (Adopted January 1, 2002) as shown in the "Article/Section No. Reference Table".

ARTICLE/SECTION NO. REFERENCE TABLE

Previous No.	Current No.
504.06	504.06
505.04	505.04
706.05	1006.05
706.32	1006.32
760.07	1060.07
STD. 2340	631026

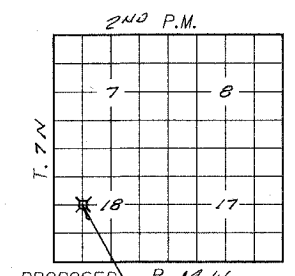
PILE DATA (2-ABUTS.)

Type STEEL HP10X42
 Capacity Tons REFUSAL
 Estimated Length Feet 28'
 Number Required 10 (Includes 1 Test Pile located in Bent #1 EITHER ABUT.)

STATION 4+92.1
 -CREEK-
 SEC. 05-00100-00-BR BUILT 200
 HUNT CITY ROAD DIST.
 JASPER COUNTY
 LOADING HS20
 STR. NO. 040-3250

LETTERING FOR NAME PLATE

Locate Name Plate at SOUTHWEST Corner of Bridge (See Std. CN)



LOCATION SKETCH

INDEX OF SHEETS

- General Plan & Elevation
- Standard CS - 2821 - 50
- Standard CB - 2821 - 48
- Standard CA - 2821 - 10
- Standard CA - 2821 - 10
- Standard CR - 751
- Standard CN
- Standard CX - 1
- Standard

DESIGN SPECIFICATIONS

2002 AASHTO, STANDARD SPECIFICATIONS - 17TH ED.
 HS20-44 Loading. Load Factor Design.

WATERWAY INFORMATION

Drainage Area = 371.82 MI. Low Grade Elev. = 505.0 @ Sta. 8+0

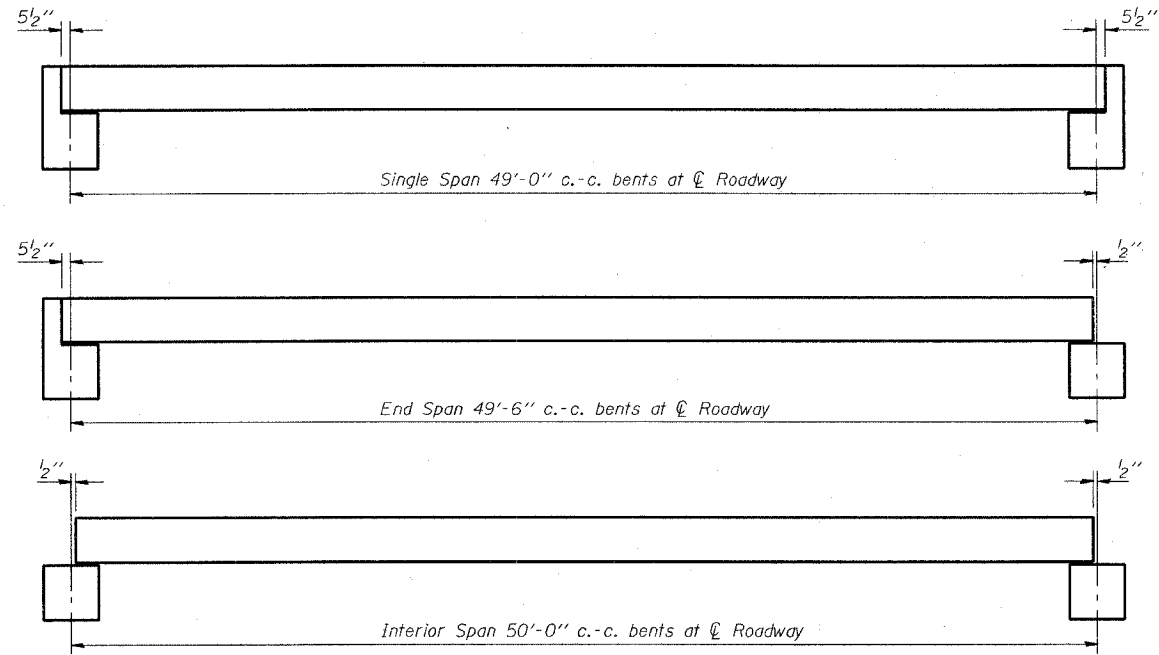
Flood	Freq. Yr.	Q		Opening Sq. Ft.		Head - Ft.		Headwater El.	
		C.F.S.	Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
Design	15	622	165	189	503.6	0.3	0.2	503.9	503.8
Base	100	974	165	217	504.2	0.6	0.6	504.8	504.8
Overtopping									
Max. Calc.	500	1252			504.6		1.0		505.6

GENERAL PLAN & ELEVATION

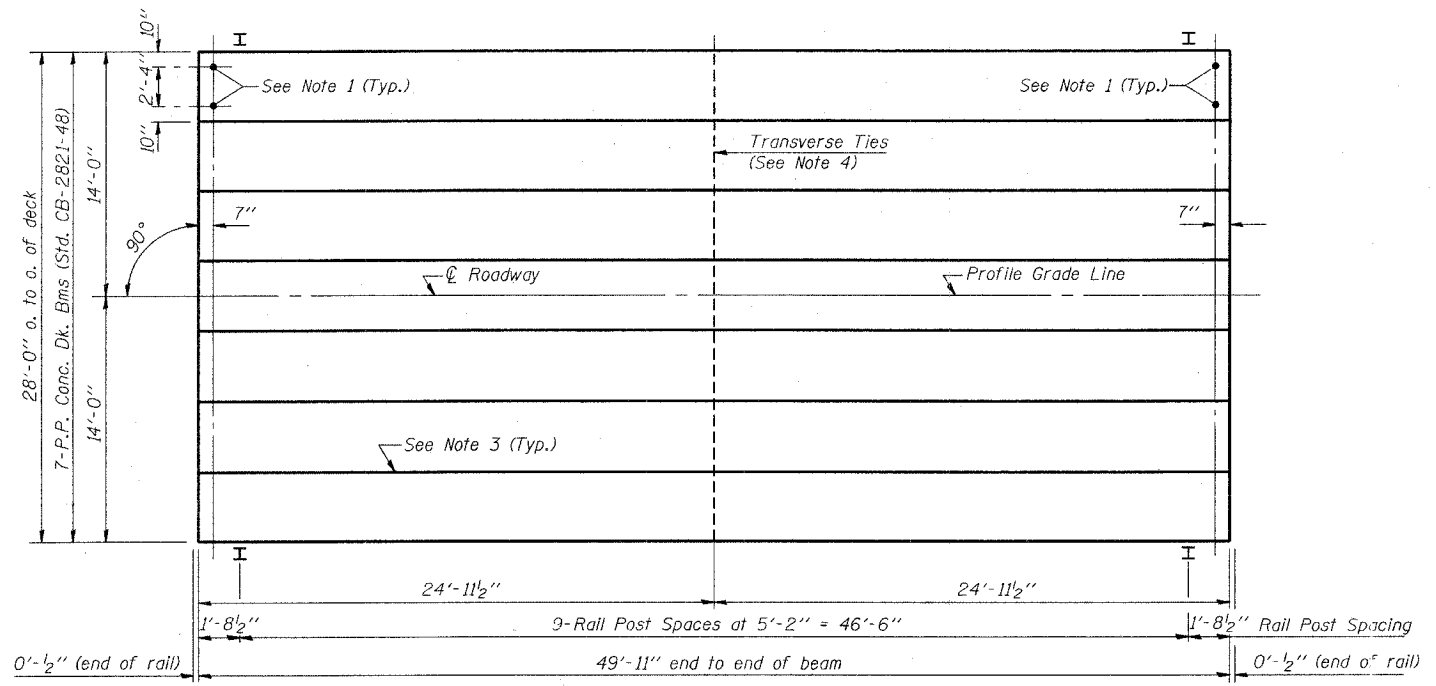
ROUTE 11
 OVER _____
 SECTION 05-00100-00-BR
 JASPER COUNTY
 STATION 4+92

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	JASPER	11	5

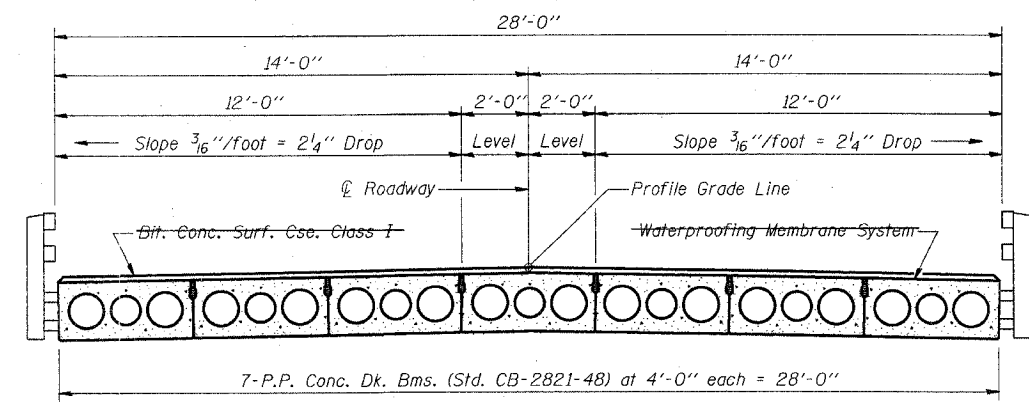
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT NO. * 05-00100-00-BR



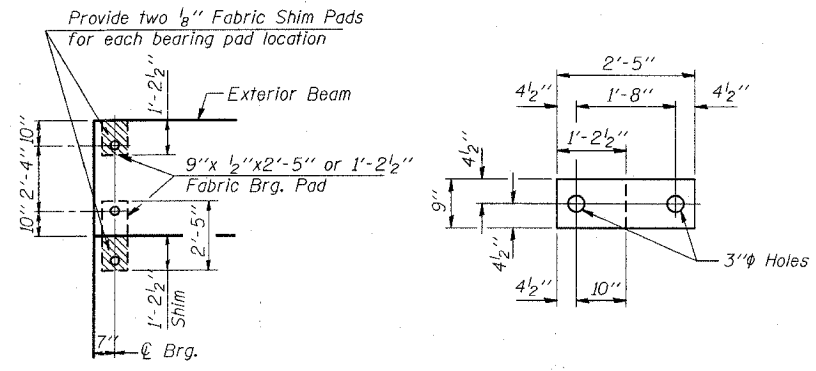
TYPICAL ELEVATIONS



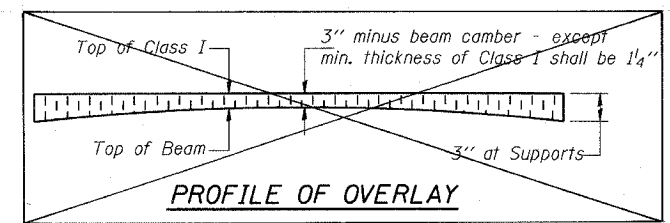
PLAN



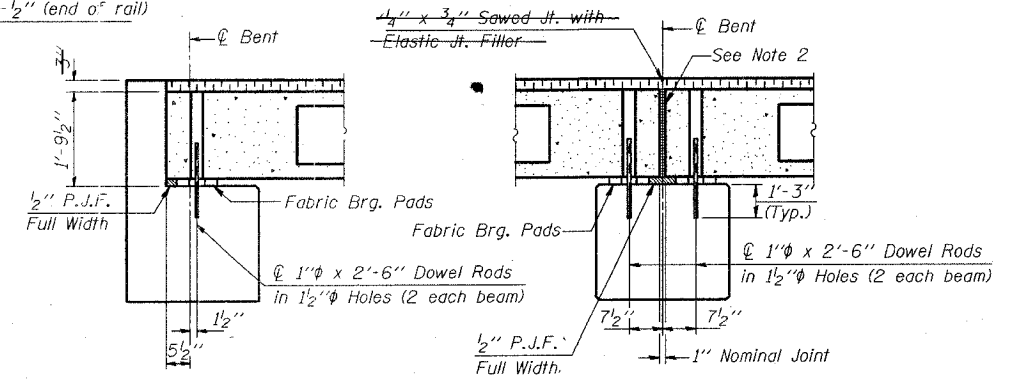
CROSS SECTION



1/2" FABRIC BRG. PAD DETAILS



PROFILE OF OVERLAY



SECTION AT ABUTS.

SECTION AT PIERS

QUANTITIES FOR ONE SPAN

P.P. Conc. Dk. Bm. 21" Dp.	1400 Sq. Ft.
Steel Railing	100 Ft.
Bit. Conc. Surf. Cse. Class I	19.0 Tons
Waterproofing Membrane System	155.6 Sq. Yds.

- NOTES**
- 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.
 - Nominal 1" joint at Roadway shall be filled with non-shrink grout.
 - Longitudinal keys shall be grouted. **WITH NON-SHRINK GROUT.**
 - The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar outside shall be filled with grout after transverse tie assembly is in place.

Illinois Department of Transportation

PASSED NOVEMBER 1, 1995

Prof. J. Jasper
Engineer of Bridge Design

APPROVED NOVEMBER 1, 1995

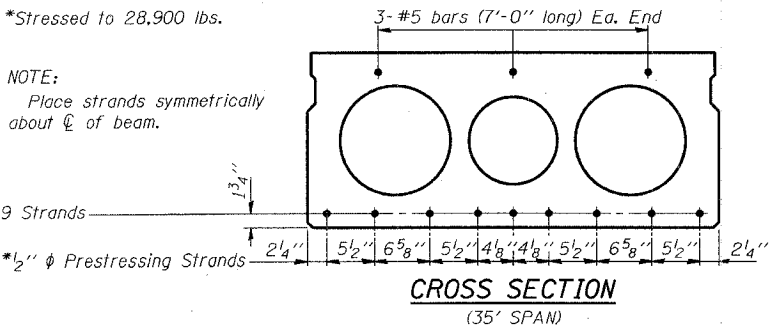
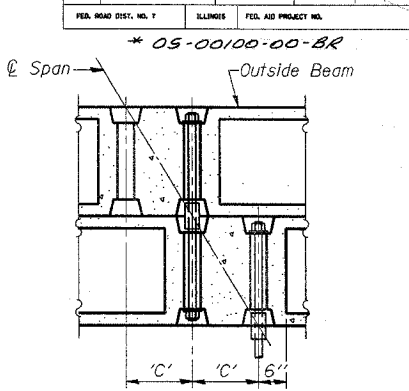
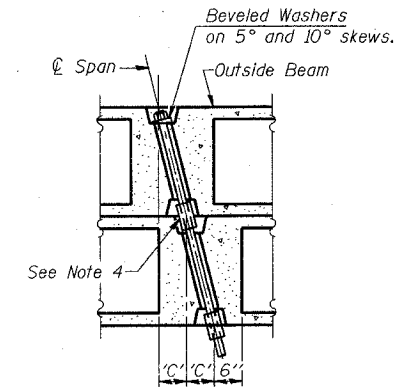
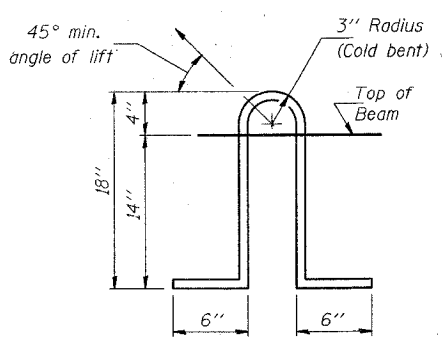
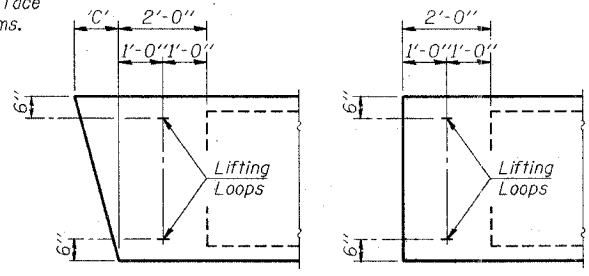
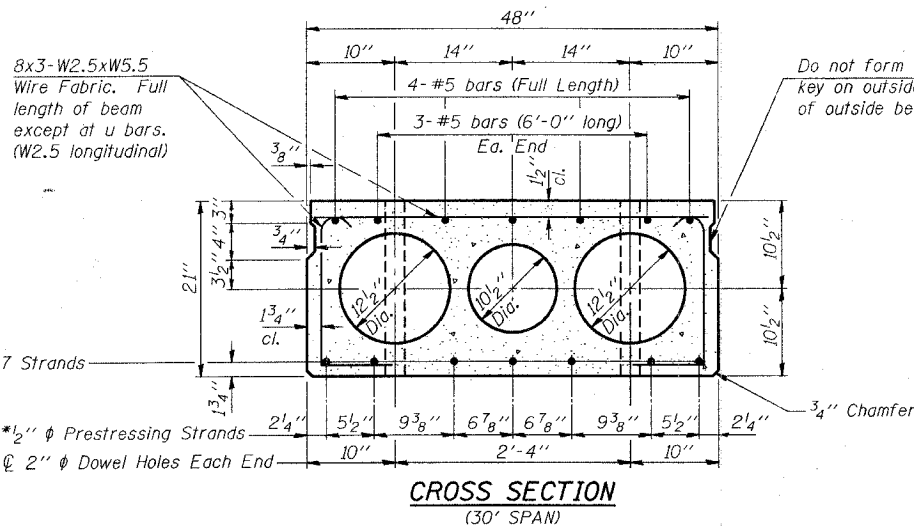
Walsh E. Anderson
Engineer of Bridges and Structures

P.P.C. DECK BEAM
SUPERSTRUCTURE

28' RDWY. 21" BMS. 50' SPAN 0° SKEW

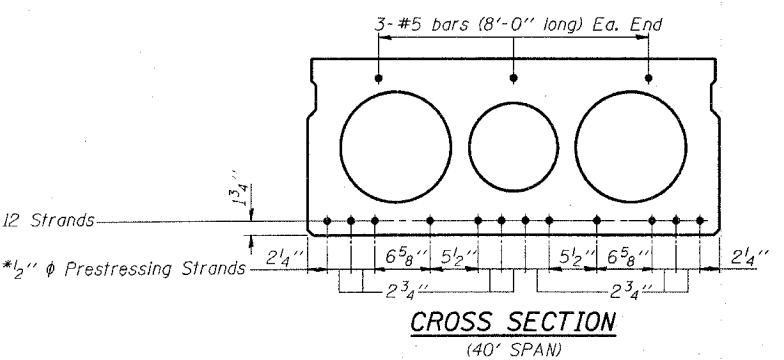
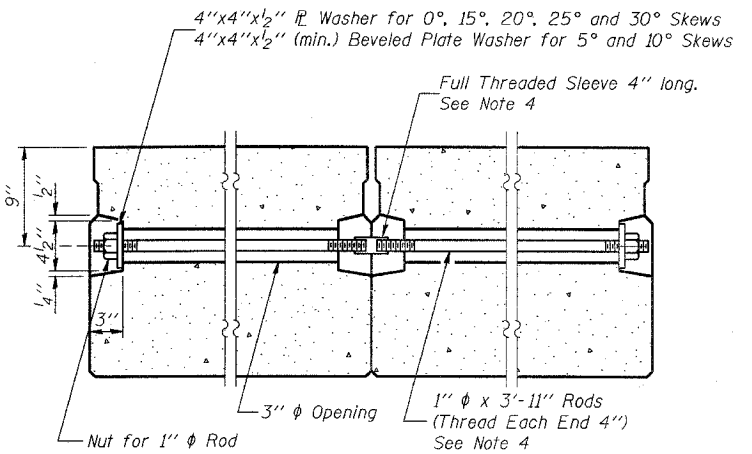
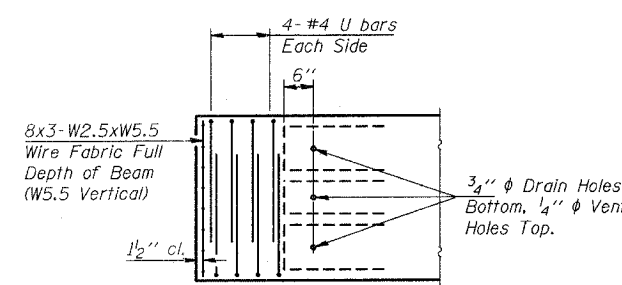
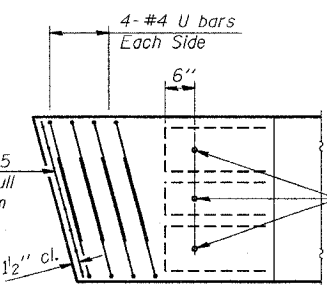
STANDARD CS-2821-50

REL.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FEA. ROAD DIST. NO. 7		ILLINOIS		FEA. AID PROJECT NO.

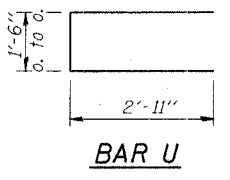
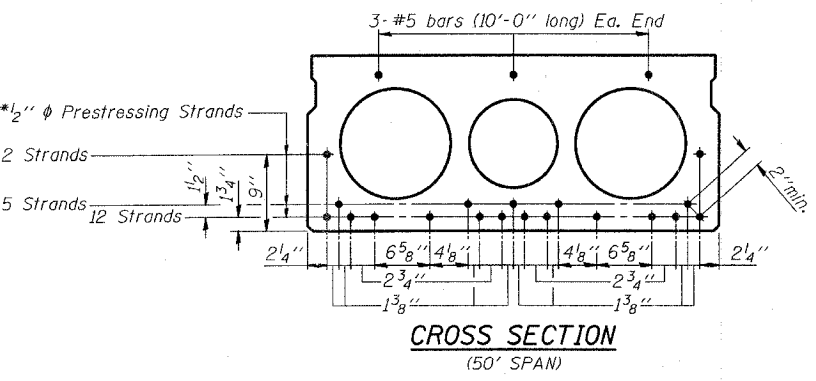


DIMENSION 'C'

Skew Angle 'D'	0°	5°	10°	15°	20°	25°	30°
Dimension 'C' (Inches)	0	4 1/4	8 1/2	12 7/8	17 1/2	22 3/8	27 3/4



- * TRANSVERSE STRAND PLACEMENT GUIDELINES**
- Place strands symmetrically about centerline of beam.
 - The minimum distance from center to center of strands in all directions shall be 2".
 - The minimum clearance from strand to dowel hole shall be 1/2".
 - The minimum clearance from strand to void shall be 1/2".
- Vertical placement of strands shall not be adjusted to satisfy the above guidelines.



DESIGN STRESSES

- $f'_c = 5,000$ p.s.i.
- $f'_ci =$ (See Required Release Strength Table) 4000 p.s.i.
- $f'_s = 270,000$ p.s.i. (1/2" ϕ Strand)
- $f_{si} = 201,960$ p.s.i. (1/2" ϕ Strand)
- $f_y = 60,000$ p.s.i.

REQUIRED RELEASE STRENGTH

Span	f'_{ci} (psi)
30'	4,000
35'	4,000
40'	4,000
50'	4,000

NOTES

- Prestressing steel shall be uncoated high strength, stress relieved 7-wire strand, Grade 270.
- The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 square inches.
- Reinforcement bars shall conform to AASHTO M-31, or M-322 Grade 60.
- On 0°, 5° and 10° skews, alternate approved transverse tie rods of increased segmental length are acceptable.
- Rail Post anchor devices shall be cast into outside beam as elsewhere specified.
- When Waterproofing Membrane System is specified, the top surface of the beams shall be finished in accordance with 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".
- Low relaxation strands may be substituted for the stress relieved strands. The initial prestressing force applied to each strand shall be the same as for the stress relieved strands (28,900 lbs.).
- Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between the top of the beam and the bottom edge of the key.

Illinois Department of Transportation

PASSED NOVEMBER 1, 1995

Greg J. Jasper
Engineer of Bridge Design

APPROVED NOVEMBER 1, 1995

Ralph E. Anderson
Engineer of Bridges and Structures

NOTE: The std. reinf. shown on the 30' span cross section is typical for all spans, except as shown.

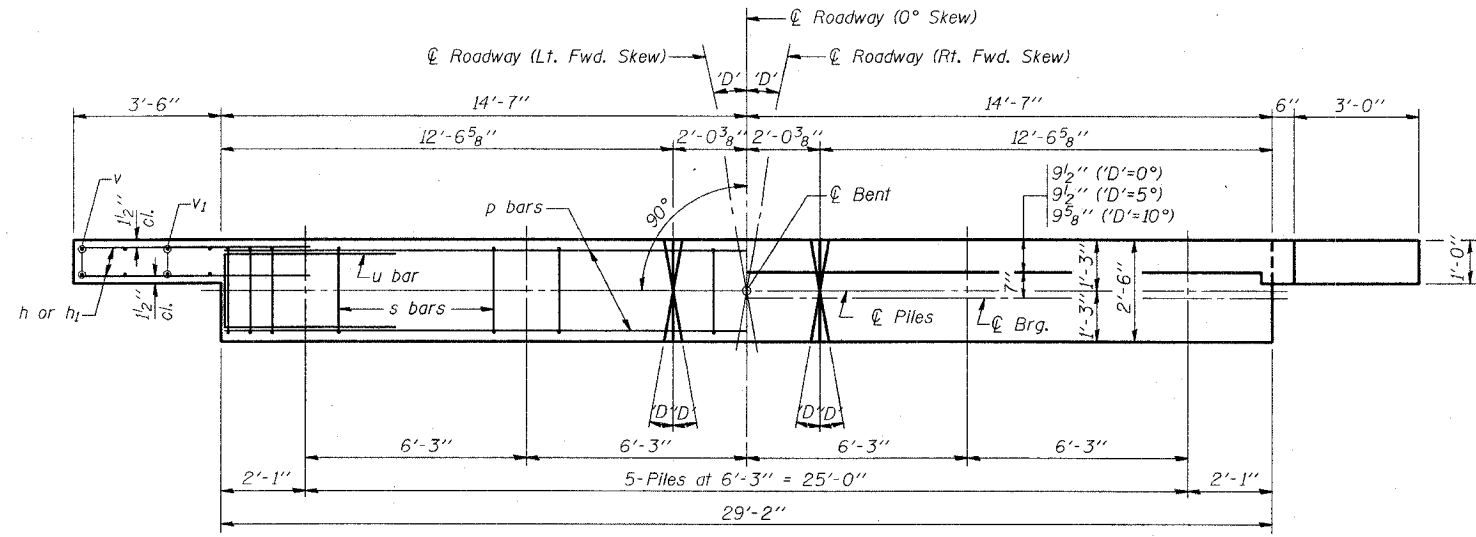
P.P.C. DECK BEAM DETAILS

28' ROADWAY | 21" x 48" BEAMS

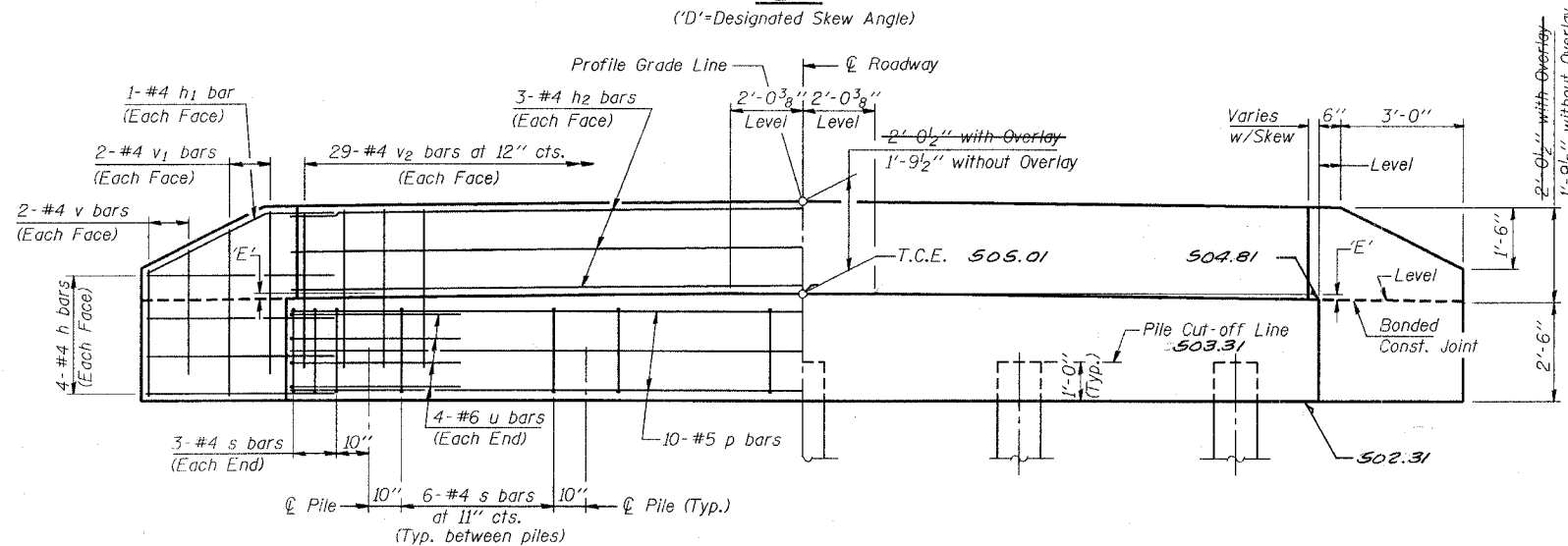
STANDARD CB-2821-48

RTL	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	JASPER	11	7

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT NO. *05-00100-00-BR



PLAN
('D'=Designated Skew Angle)



ELEVATION

DIMENSION 'E'

GRADE	'D'=0°		'D'=5°		'D'=10°	
	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END
0%	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"
Over 0% to 1%	2 3/8"	2 3/8"	2 1/4"	2 3/8"	2 5/8"	2 1/2"
Over 1% to 2%	2 3/8"	2 3/8"	2 1/8"	2 1/2"	1 7/8"	2 3/4"
Over 2% to 3%	2 3/8"	2 3/8"	2"	2 5/8"	1 5/8"	3"
Over 3% to 4%	2 3/8"	2 3/8"	1 7/8"	2 3/4"	1 3/8"	3 1/4"

NOTES

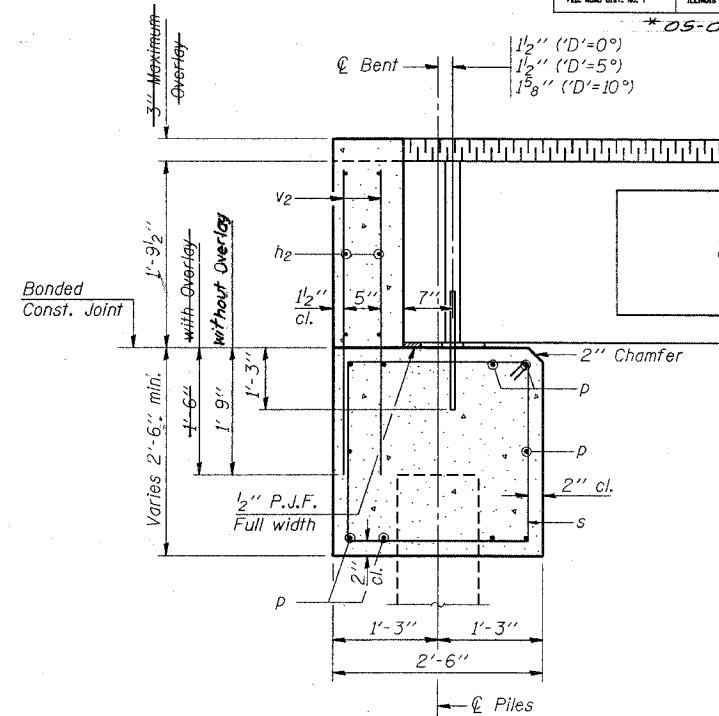
- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
- Reinforcement bars shall conform to A.A.S.H.T.O. M-31. or M-322 Grade 60.

MAXIMUM PILE LOADS

SPAN	TONS
30'	25
35'	27
40'	29
50'	33

DESIGN STRESSES

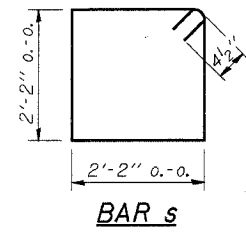
f'c = 3,500 psi
fy = 60,000 psi



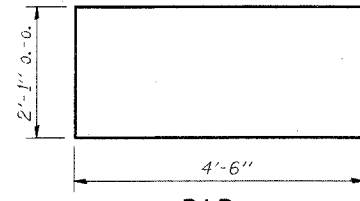
SECTION THRU ABUTMENT
(At Right Angles)

BILL OF MATERIAL FOR ONE ABUTMENT

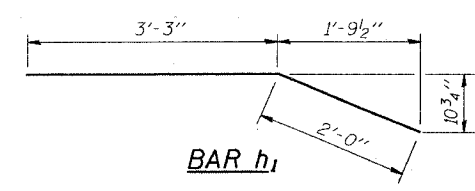
Bar	No.	Size	Length	Shape
h	16	#4	5'-0"	—
h1	4	#4	5'-3"	—
h2	6	#4	28'-10"	—
p	10	#5	28'-10"	—
s	30	#4	9'-5"	□
u	8	#6	11'-1"	—
v	8	#4	2'-8"	—
v1	8	#4	3'-8"	—
v2	58	#4	3'-5"	—
Concrete Structures			9.9 Cu. Yds.	
Reinforcement Bars			970 Lbs.	



BAR s



BAR u



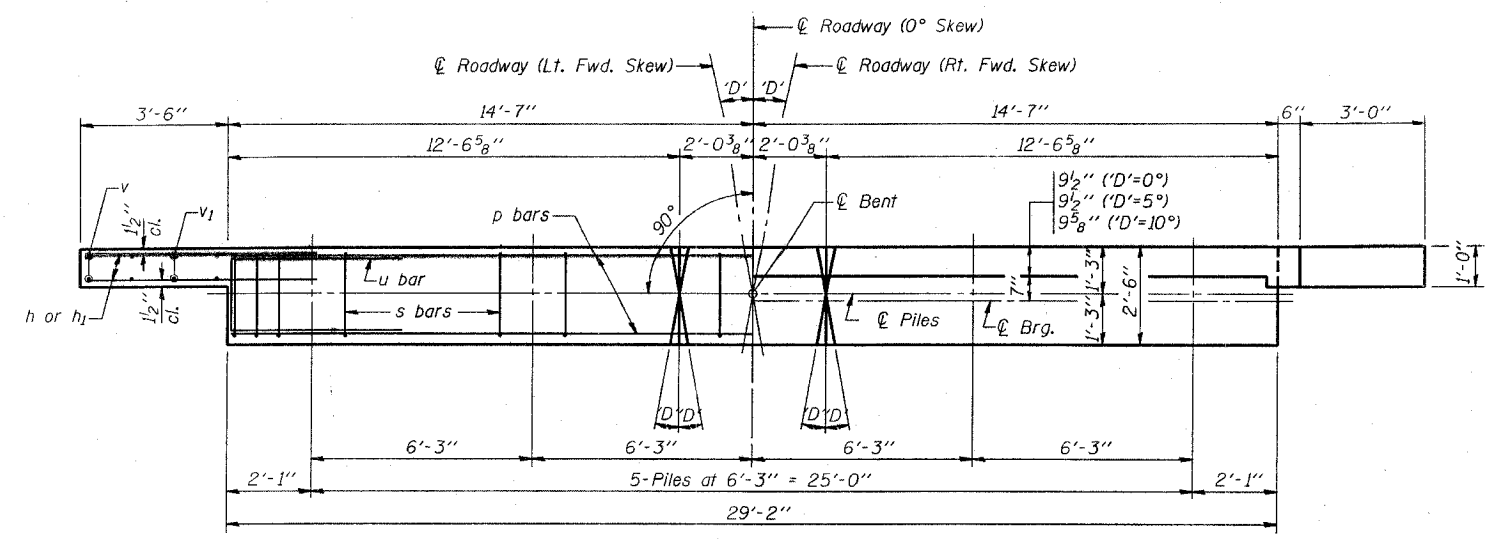
BAR h1

WEST ABUTMENT

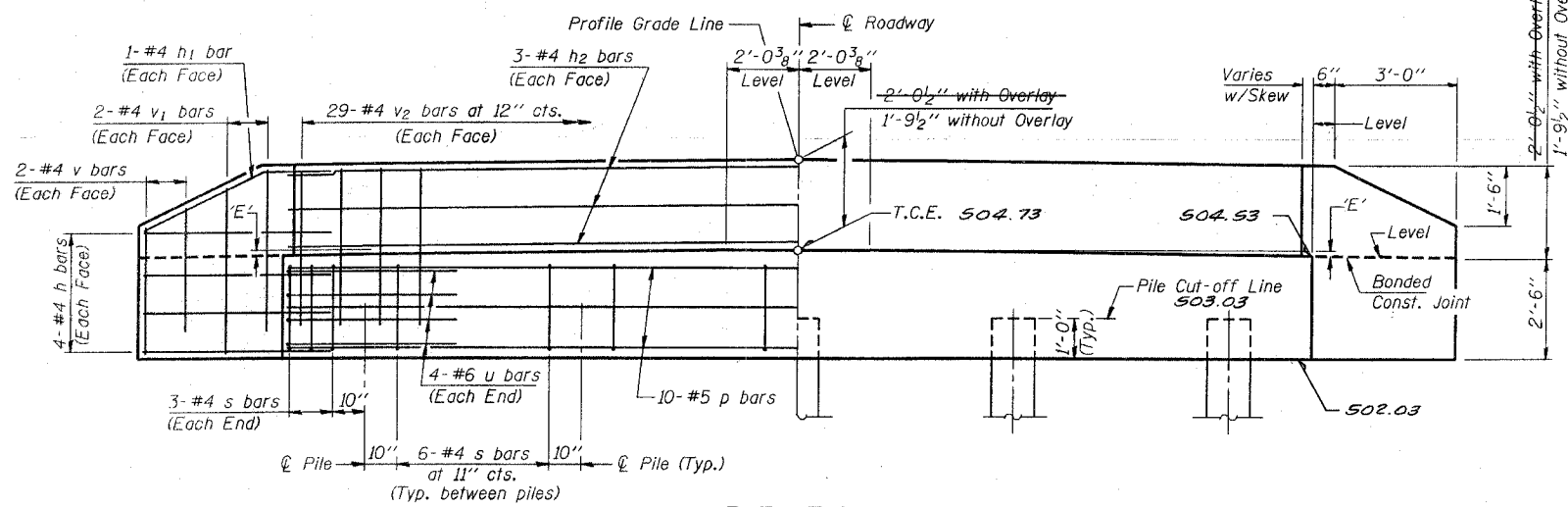
P.P.C. DECK BEAMS	
PILE BENT ABUTMENT	
28' RDWY.	21" BMS. 'D'=0°, 5° OR 10°
STANDARD CA-2821-10	

Illinois Department of Transportation
 PASSED November 1, 1995
 [Signature]
 Engineer of Bridge Design
 APPROVED November 1, 1995
 [Signature]
 Engineer of Bridges and Structures

FILE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	JASPER	11	8	
* 05-00100-00-BR				



PLAN
(D'=Designated Skew Angle)



ELEVATION

DIMENSION 'E'

GRADE	'D'=0°		'D'=5°		'D'=10°	
	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END
0%	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"
Over 0% to 1%	2 3/8"	2 3/8"	2 1/4"	2 3/8"	2 1/8"	2 1/2"
Over 1% to 2%	2 3/8"	2 3/8"	2 1/2"	2 1/2"	1 7/8"	2 3/4"
Over 2% to 3%	2 3/8"	2 3/8"	2"	2 5/8"	1 5/8"	3"
Over 3% to 4%	2 3/8"	2 3/8"	1 7/8"	2 3/4"	1 3/8"	3 1/4"

NOTES

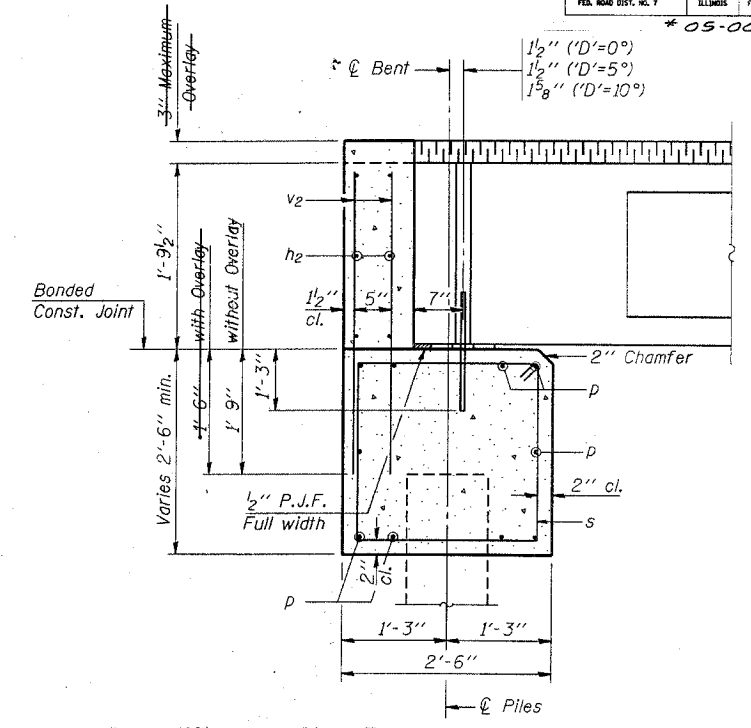
- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
- Reinforcement bars shall conform to A.A.S.H.T.O. M-31 or M-322 Grade 60.

MAXIMUM PILE LOADS

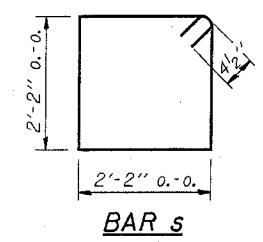
SPAN	TONS
30'	25
35'	27
40'	29
50'	33

DESIGN STRESSES

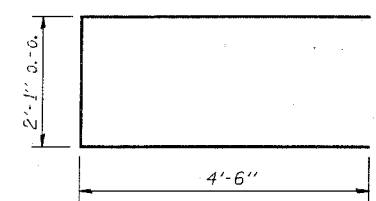
f'c = 3,500 psi
fy = 60,000 psi



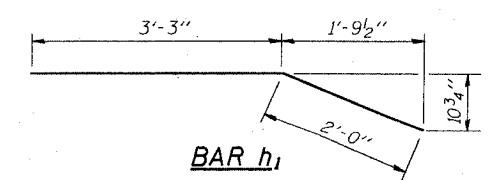
SECTION THRU ABUTMENT
(At Right Angles)



BAR s



BAR u



BAR h1

BILL OF MATERIAL FOR ONE ABUTMENT

Bar	No.	Size	Length	Shape
h	16	#4	5'-0"	—
h1	4	#4	5'-3"	—
h2	6	#4	28'-10"	—
p	10	#5	28'-10"	—
s	30	#4	9'-5"	□
u	8	#6	11'-1"	□
v	8	#4	2'-8"	—
v1	8	#4	3'-8"	—
v2	58	#4	3'-5"	—
Concrete Structures			9.9 Cu. Yds.	
Reinforcement Bars			970 Lbs.	

EAST ABUTMENT

P.P.C. DECK BEAMS	
PILE BENT ABUTMENT	
28' RDWY.	21" BMS. 'D'=0°, 5° OR 10°
STANDARD CA-2821-10	

Illinois Department of Transportation
 PASSED November 1, 1995
 Approved by: *Raj D. Kasper*
 Engineer of Bridge Design
 APPROVED November 1, 1995
 Approved by: *Ralph E. Anderson*
 Engineer of Bridges and Structures

NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A-500 Grade B Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft.-lbs. at 0° F.

All other steel shapes and plates shall conform to the requirements of AASHTO M-270 Grade 36 except posts and angles shall conform to AASHTO M-270 Grade 50.

Bolts, cap screws, and nuts shall conform to the requirement of ASTM designation A-307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M-164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with AASHTO M-232.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with AASHTO M-111 and ASTM A-385. Galvanized rail shall not be painted.

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 incidental to Steel Railing, Type S-1.

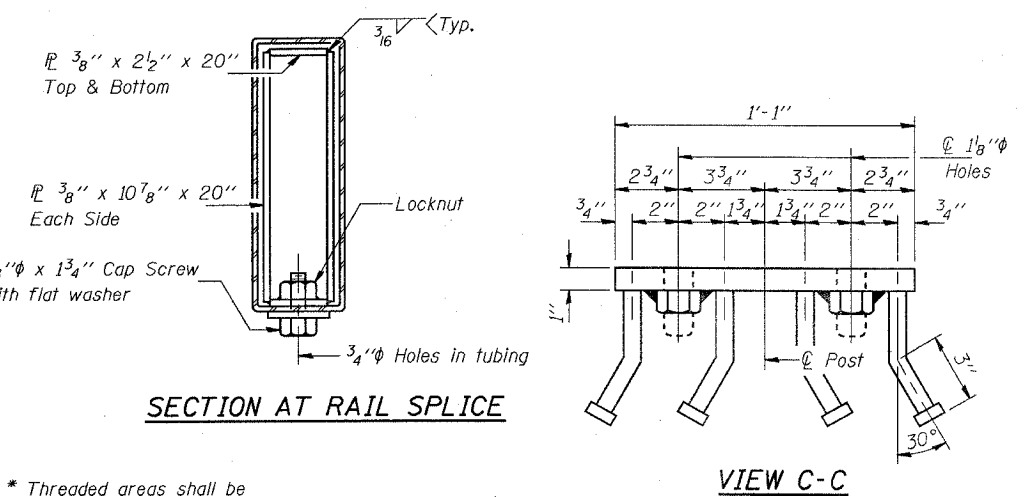
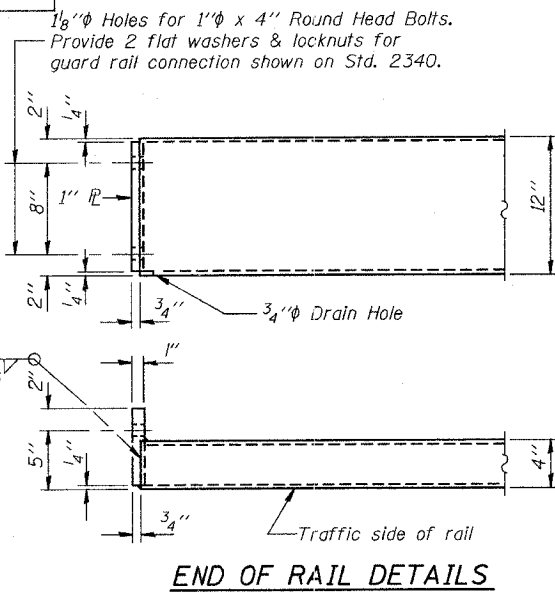
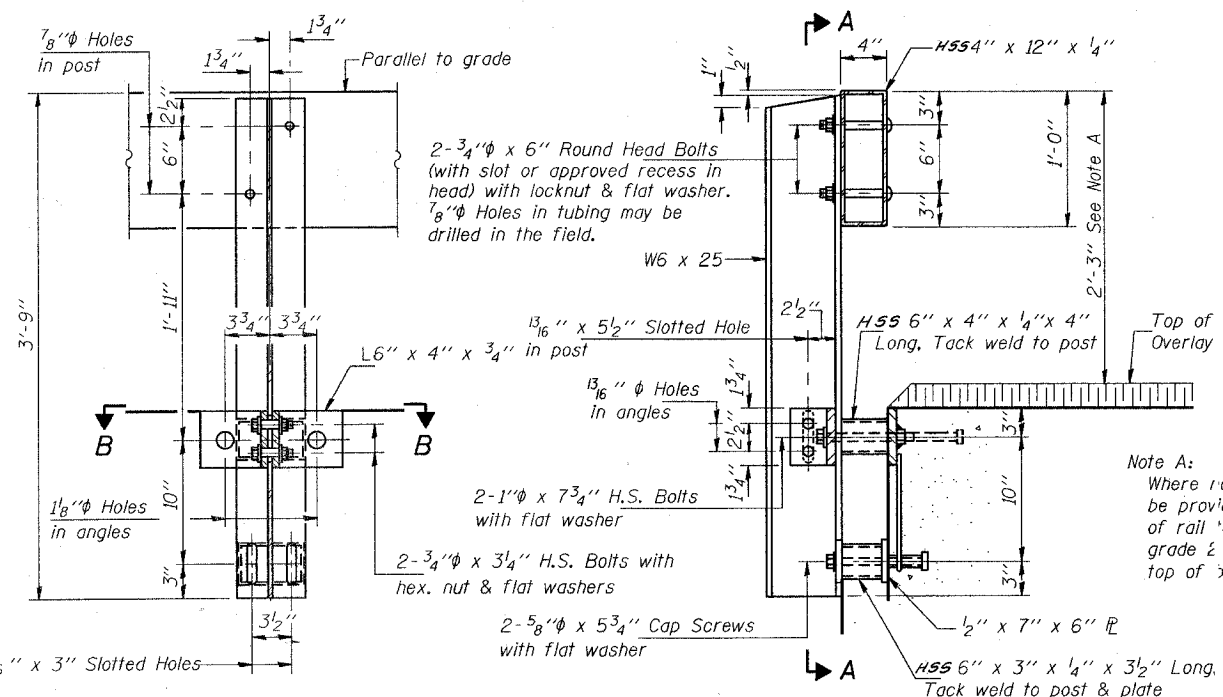
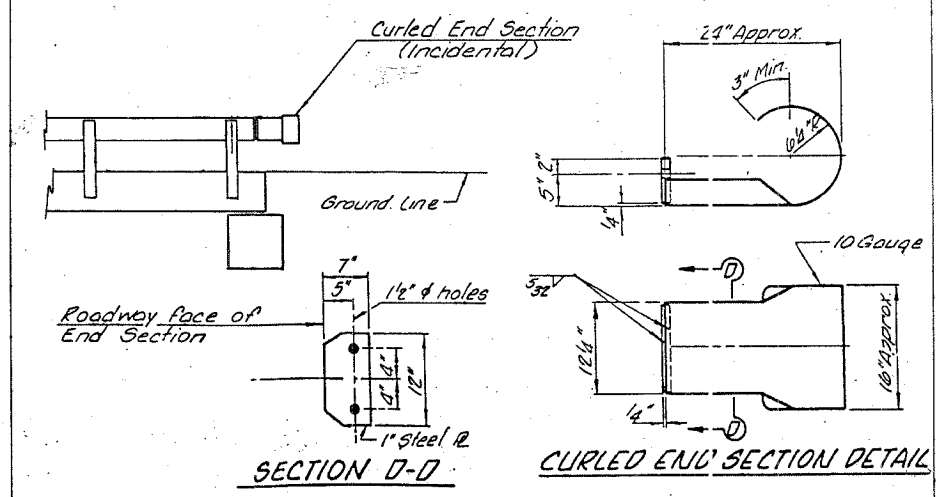
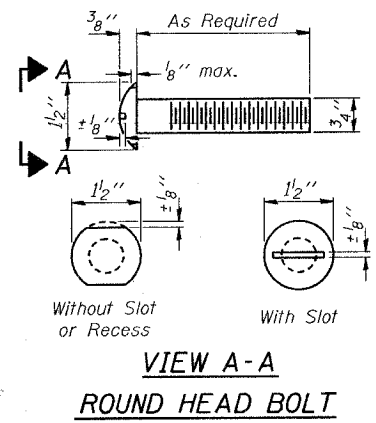
All field drilled holes shall be coated with an approved zinc rich paint before erection.

The 1/2" x 7" x 6" plates that come in contact with concrete shall receive two coats of asphalt paint conforming to Section 1060.07 Type II or place 1/8" fabric bearing pads between the plates and concrete.

The 3/4" high strength bolts used to connect the 6" x 4" x 3/4" angles to the post shall be tightened in accordance with Article 505.04 (f) (2) of the Standard Specifications. The 1" high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/8 turn. The 5/8" cap screws in bottom of posts shall be tightened to a snug fit only.

The maximum allowable rail post spacing shall be 10'-6". The rail post spacing shown elsewhere in the plans is based on the allowable spacing for another type of rail. When this type of rail is used, the number of posts may be decreased and the post spacing increased to provide equal post spaces of 10'-6" or less.

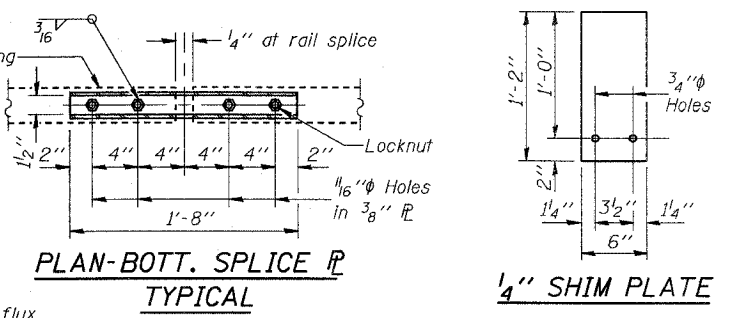
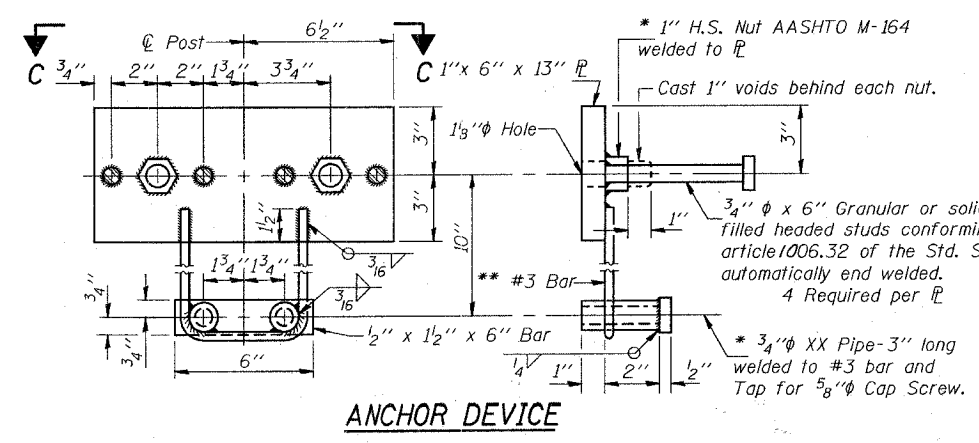
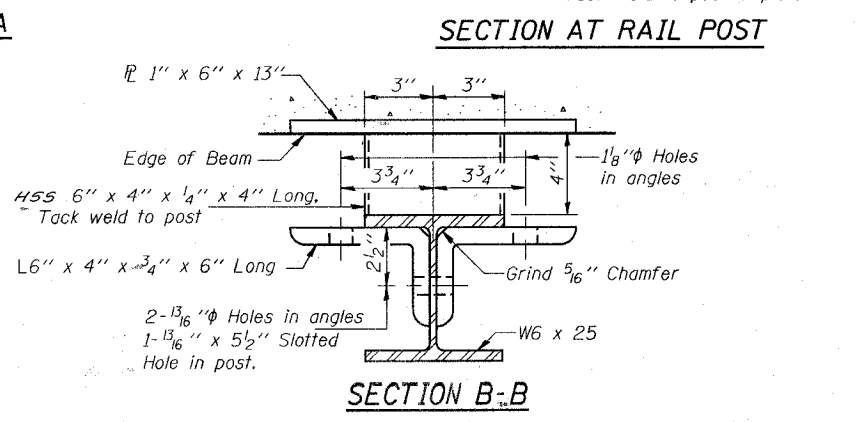
CONTRACT NO. 95-440



Note A: Where no overlay is to be provided adjust top of rail to lay parallel to grade 2'-5" max. above top of beam.

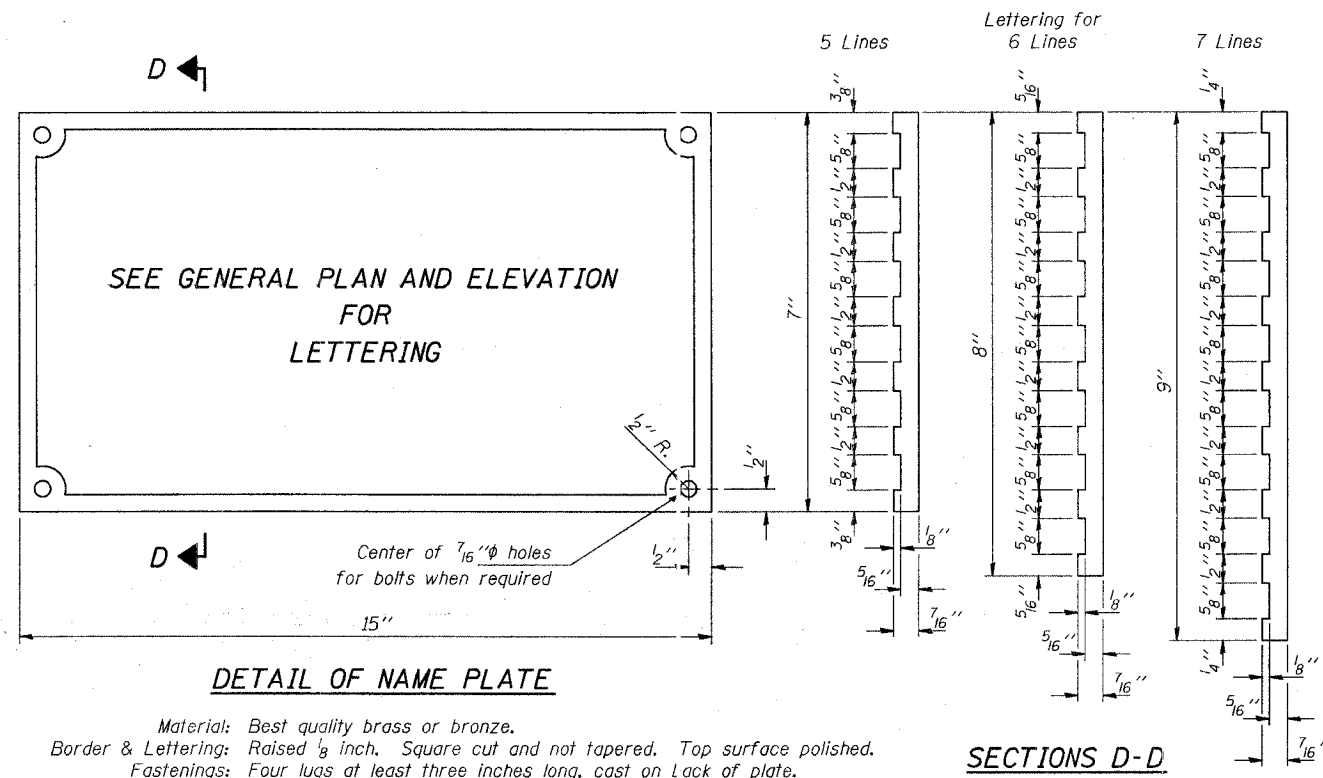
** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".

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

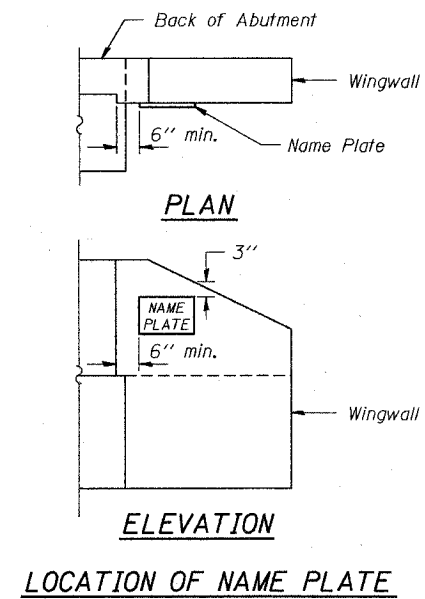


Illinois Department of Transportation
PASSED November 1, 1995
Engineer of Bridge Design
APPROVED November 1, 1995
Engineer of Bridges and Structures

STEEL RAILING, TYPE S-1
STANDARD CR-TS1



Material: Best quality brass or bronze.
 Border & Lettering: Raised $\frac{1}{8}$ inch. Square cut and not tapered. Top surface polished.
 Fastenings: Four lugs at least three inches long, cast on back of plate.



Illinois Department of Transportation

PASSED November 1, 1995

Craig D. Kaspar
 Engineer of Bridge Design

APPROVED November 1, 1995

Ralph E. Anderson
 Engineer of Bridges and Structures

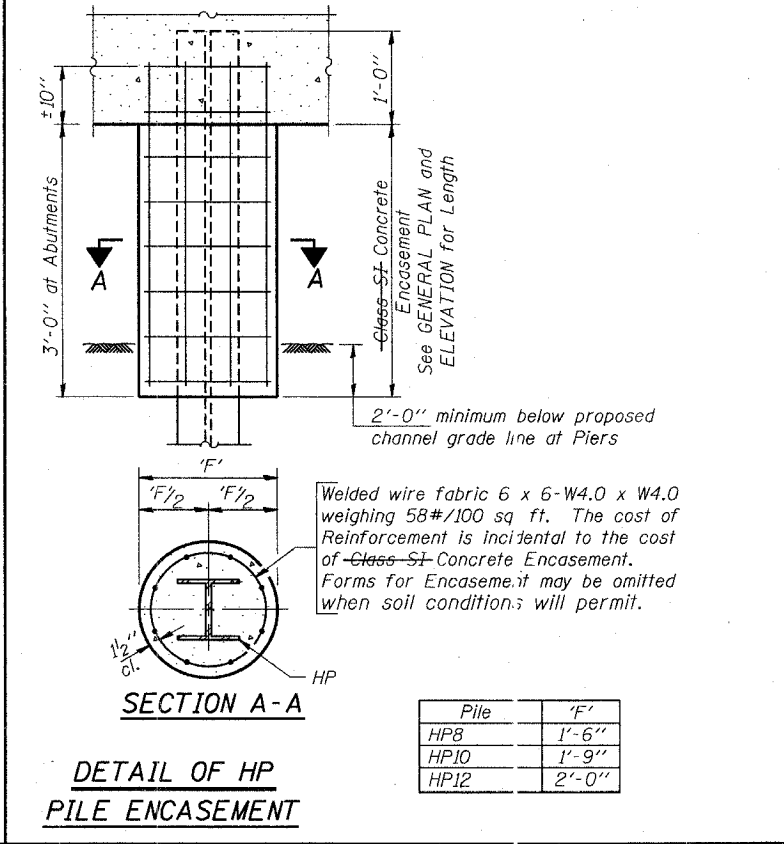
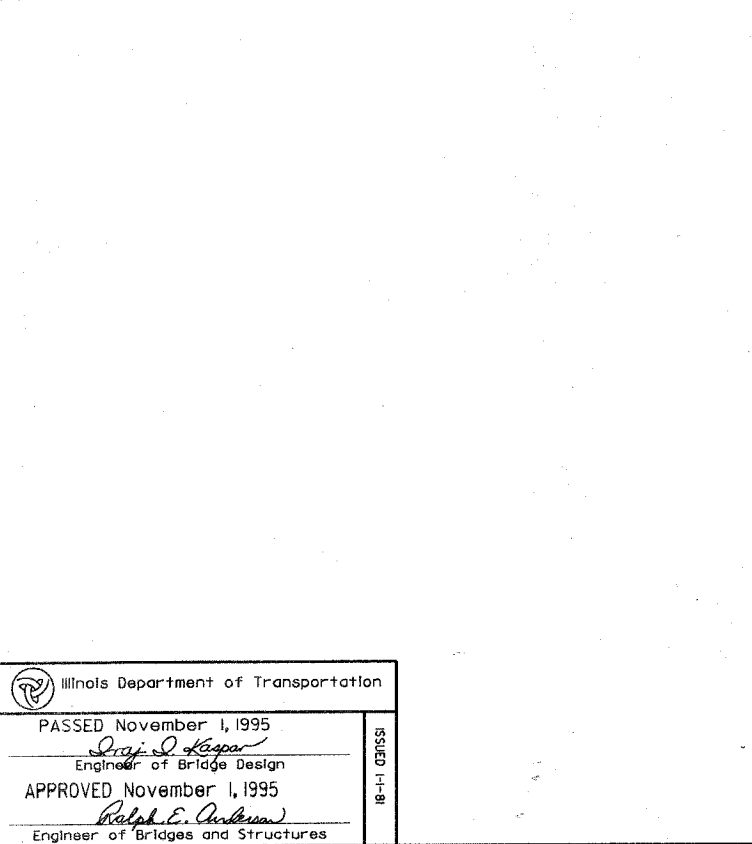
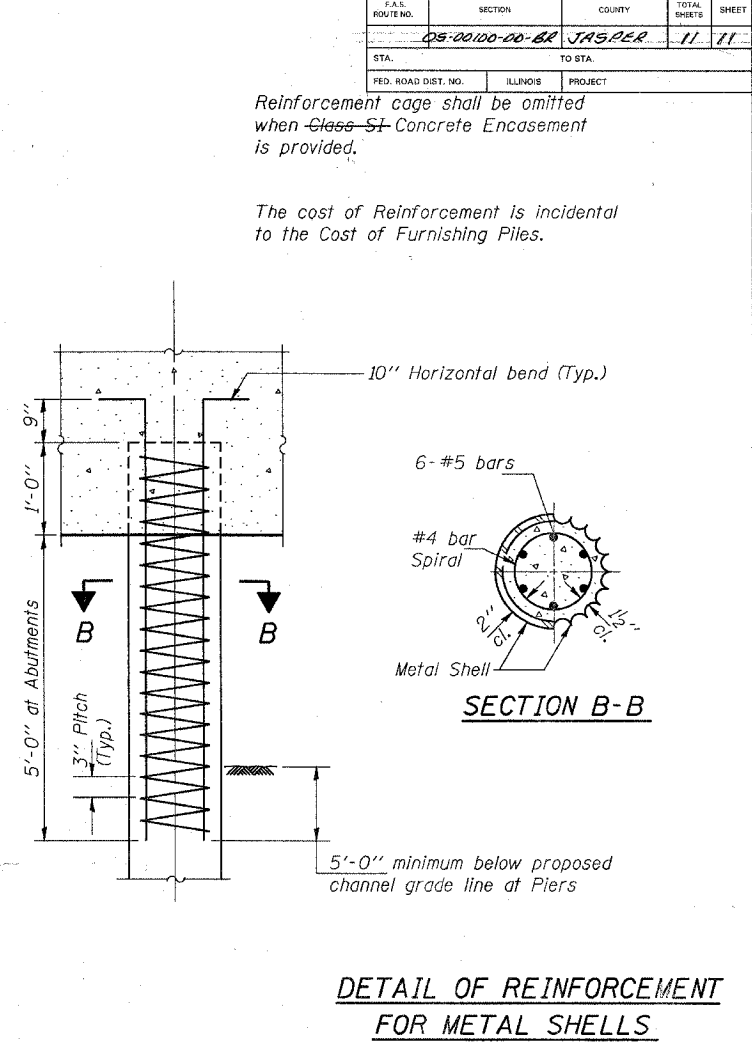
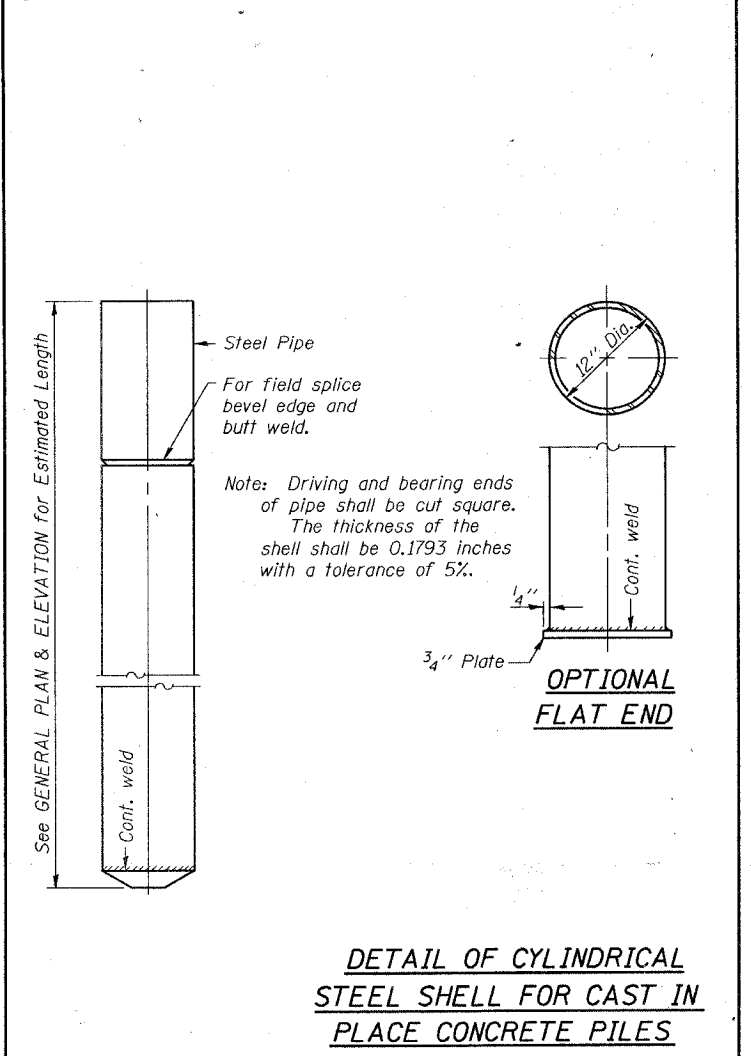
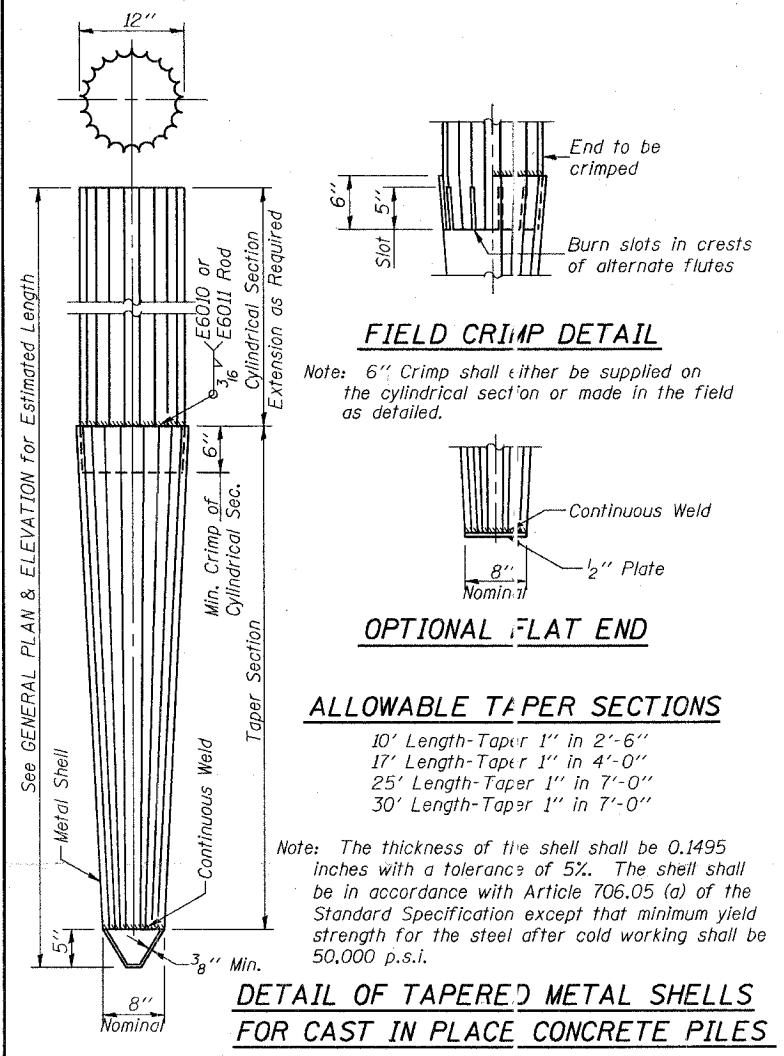
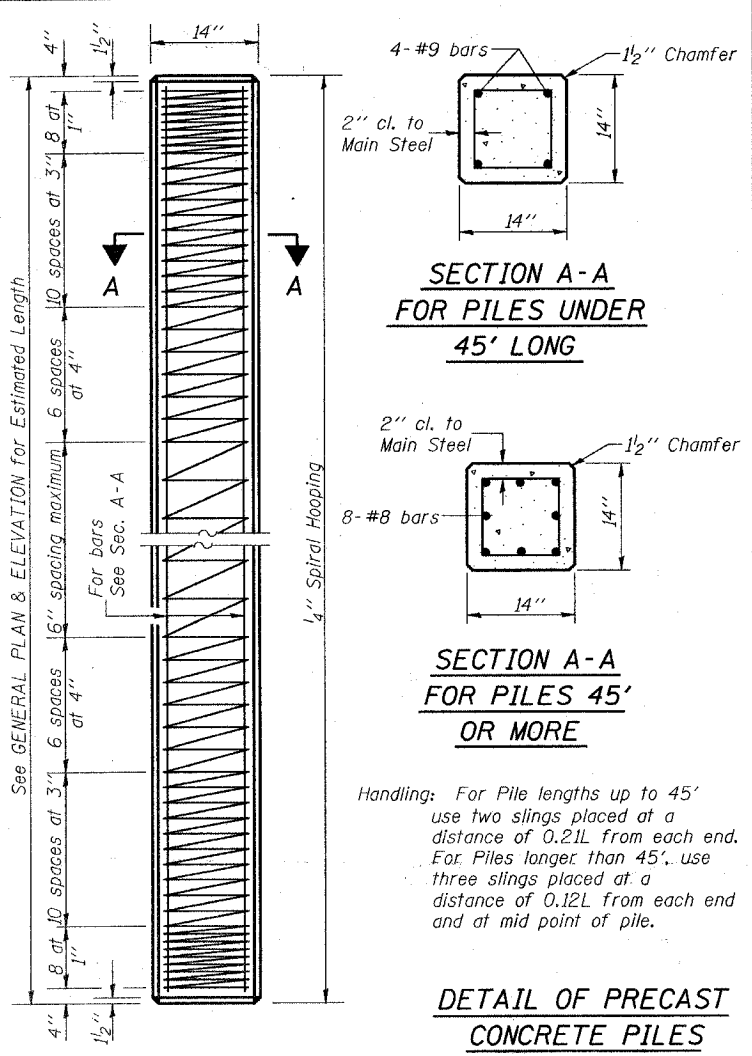
ISSUED 7-1-95

NAME PLATE
 STANDARD CN

F.A.S. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
05-0000-00-02	JASPER		11	11
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

Reinforcement cage shall be omitted when Class ~~SI~~ Concrete Encasement is provided.

The cost of Reinforcement is incidental to the Cost of Furnishing Piles.



QUANTITIES/LIN. FT. OF ENCASEMENT

(STEEL PILES)

Pile Size	Item	Quantity
HP8	Class SI Concrete Encasement	0.063 C.Y.
HP10	Class SI Concrete Encasement	0.086 C.Y.
HP12	Class SI Concrete Encasement	0.112 C.Y.

(METAL SHELL PILES)

Pile Size	Item	Quantity
12" Dia.	Class SI Concrete Encasement	0.087 C.Y.

Illinois Department of Transportation

PASSED November 1, 1995

Greg J. Kasper
 Engineer of Bridge Design

APPROVED November 1, 1995

Ralph E. Anderson
 Engineer of Bridges and Structures

PILE DETAILS

STANDARD CX-1