

ROUTE	SECTION	COUNTY	TOT. SHTS.	SHT.
FAS 789	95-00158-00-BR	JEFFERSON	12	1
JEFFERSON COUNTY				

CONTRACT 99286

INDEX OF SHEETS

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5. ABUTMENTS
6. RAILING DETAILS
7. PILE DETAILS
8. NAME PLATE
9. BORINGS
10. BORINGS
11. BORINGS
12. CROSS SECTIONS

STANDARDS

- 000001-04
- 515001-02
- 630001-07
- 635006-02
- 702001-06
- BLR 21-6

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2007 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, ALL APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, AND THE SPECIAL PROVISIONS FOR THIS PROJECT.

PLAN ELEVATIONS ARE U.S.G.S. DATUM AND ARE THE ELEVATIONS OF THE FINISHED SURFACES.

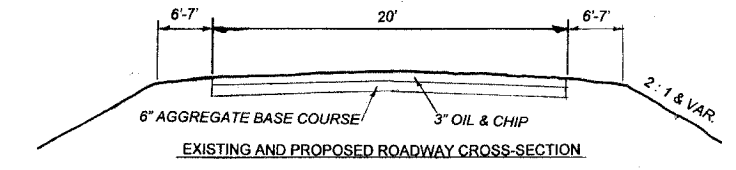
THE CONTRACTOR SHALL SALVAGE ALL MATERIALS DEEMED SUITABLE BY THE ENGINEER AND STORE ON THE ADJACENT R.O.W. FOR LATER REMOVAL BY THE JEFFERSON COUNTY HIGHWAY DEPARTMENT.

THE WORK IN THIS SECTION SHALL CONSIST OF THE CONSTRUCTION OF A 90' SINGLE SPAN PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE WITH OPEN ABUTMENTS ON CONCRETE CAPS AND ENCASED H-PILES. EARTHWORK, DRAINAGE AND ANY INCIDENTAL WORK NECESSARY TO COMPLETE THE SECTION.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED
H. B. P. PROJECT

JEFFERSON CO.
SECTION 95-00158-00-BR
FAS 789 CH 3
PROJECT NO. BRS-789(113)
JOB NO. C-99-582-06



THE ACCEPTANCE OF THIS PROJECT IS BASED ON THE MINIMUM DESIGN CRITERIA FOR A FEDERAL AID BRRP TYPE IMPROVEMENT.
DISTRICT ENGINEER OF LOCAL ROADS & STREETS

APPROVED Feb. 5, 2007

John S. Schware
COUNTY ENGINEER
JEFFERSON COUNTY HIGHWAY DEPT.
750 OLD FAIRFIELD RD.
MT. VERNON, IL 62864
PH. (618)244-8031
LICENSE EXP. 11-30-07

PASSED FEB. 9 2007

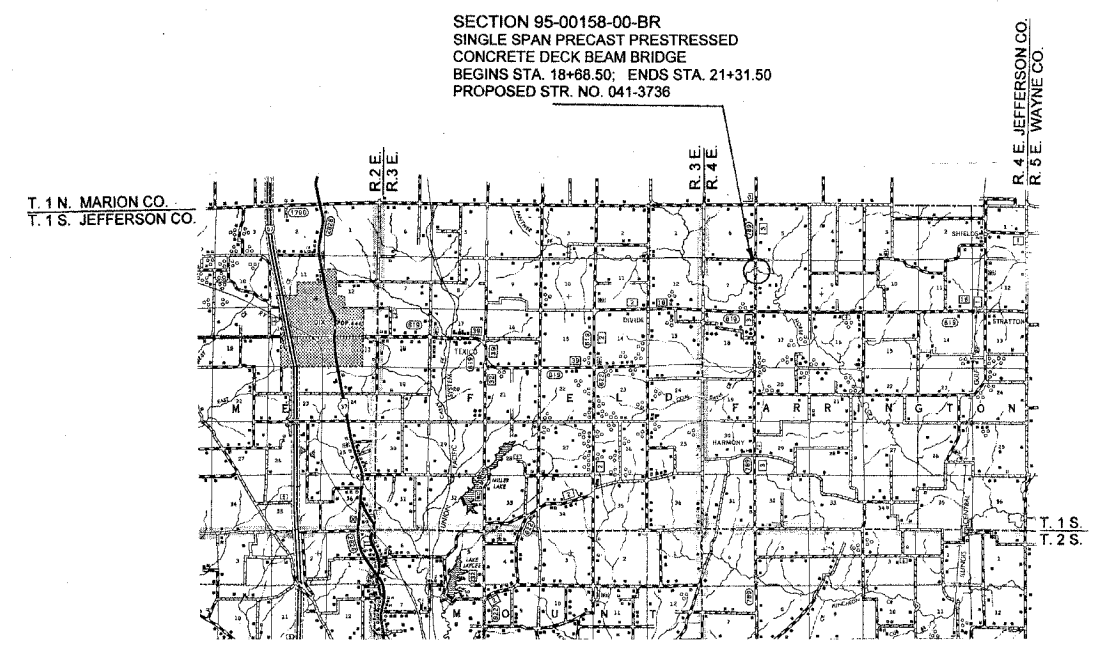
Dennis W. Hill
DISTRICT NINE ENGINEER OF
LOCAL ROADS AND STREETS

Releasing for
Bid based on
limited review Feb 16 2007

Mary Ann
DEPUTY DIRECTOR OF HIGHWAYS
REGION FIVE ENGINEER

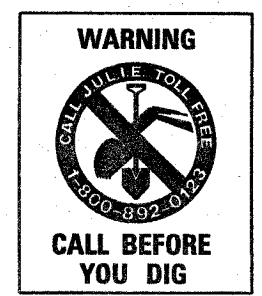
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
ITEM	CODE	UNIT	QUAN.
PRECAST PRESTRESSED CONCRETE DECK BEAMS (42" DEPTH)	XX003515	SQ FT	2435
CHANNEL EXCAVATION	20300100	CU YD	19
STONE DUMPED RIPRAP, CLASS A4	28100807	TON	470
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	40603310	TON	37
REMOVAL OF EXISTING STRUCTURES	50100100	EACH	1
CONCRETE STRUCTURES	50300225	CU YD	24.2
CONCRETE ENCASEMENT	50300280	CU YD	3.4
STUD SHEAR CONNECTORS	50500505	EACH	40
REINFORCEMENT BARS	50800105	POUND	3,440
STEEL RAILING, TYPE S1	50900205	FOOT	189
FURNISHING STEEL PILES HP 12X53	51201800	FOOT	945
DRIVING PILES	51202305	FOOT	945
TEST PILE STEEL HP 12X53	51203600	EACH	1
NAME PLATES	51500100	EACH	1
CONTROLLED LOW-STRENGTH MATERIAL	59300100	CU YD	25
TRAFFIC BARRIER TERMINAL, TYPE 1	LR631020	EACH	2
TRAFFIC BARRIER TERMINAL, TYPE 5A	63100075	EACH	2
MOBILIZATION	67100100	L SUM	1



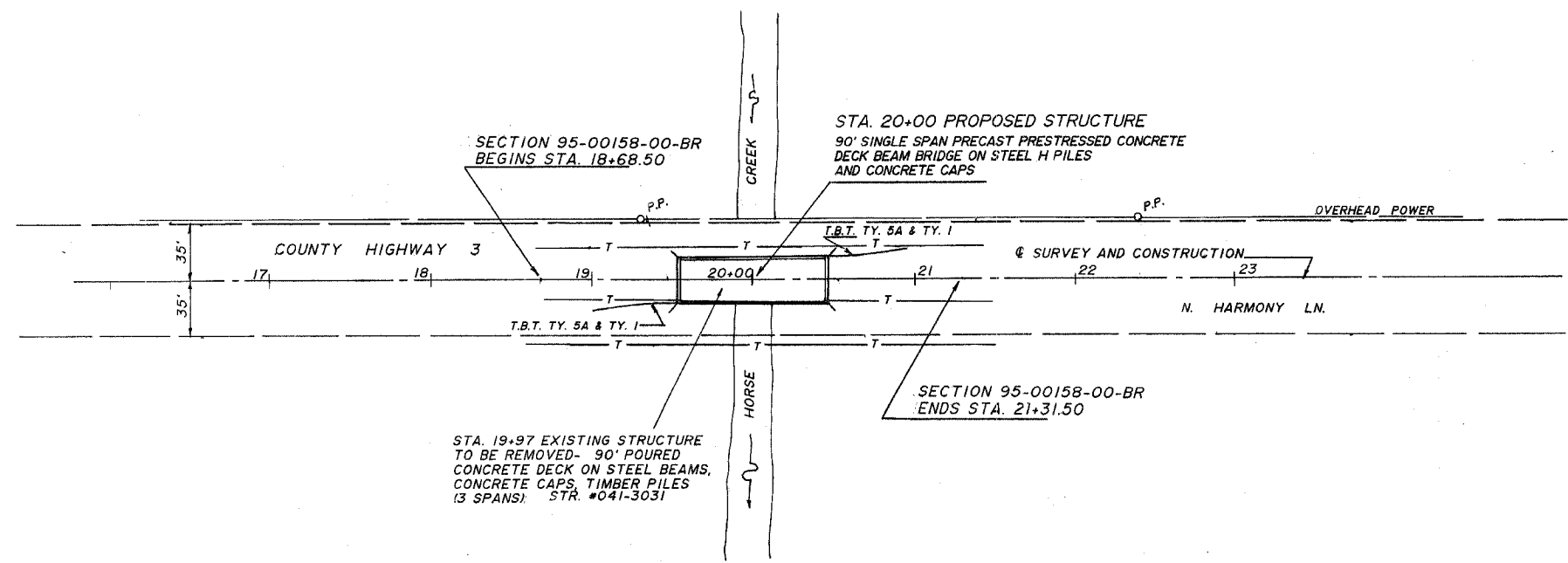
RURAL MAJOR COLLECTOR
ADT 550
50 MPH

TOTAL SECTION LENGTH=263=0.05 MILES
OMISSION=0'
NET SECTION LENGTH=263=0.05 MILES



ROUTE	SECTION	COUNTY	TOT. SHTS.	SHT.
FAS 789	95-00158-00-BR	JEFFERSON	12	2
JEFFERSON COUNTY				

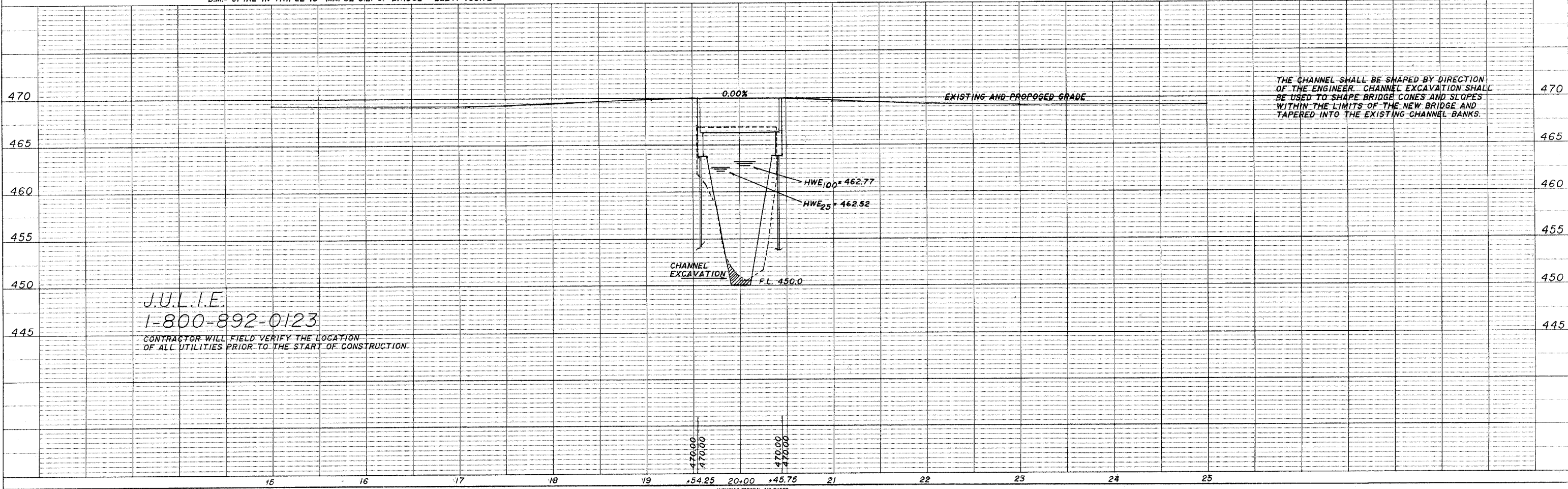
KENNETH MICHAEL
NE 1/4 NE 1/4 SEC. 7, T.1 S., R.4 E., 3rd P.M.



STA. 19+97 EXISTING STRUCTURE
TO BE REMOVED- 90' POURED
CONCRETE DECK ON STEEL BEAMS,
CONCRETE CAPS, TIMBER PILES
(3 SPANS) STR. #041-3031

WILLIAM SHAFER
NW 1/4 NW 1/4 SEC. 8, T.1 S., R.4 E., 3rd P.M.

B.M.- SPIKE IN TRIPLE 15" MAPLE S.E. OF BRIDGE ELEV. 465.72

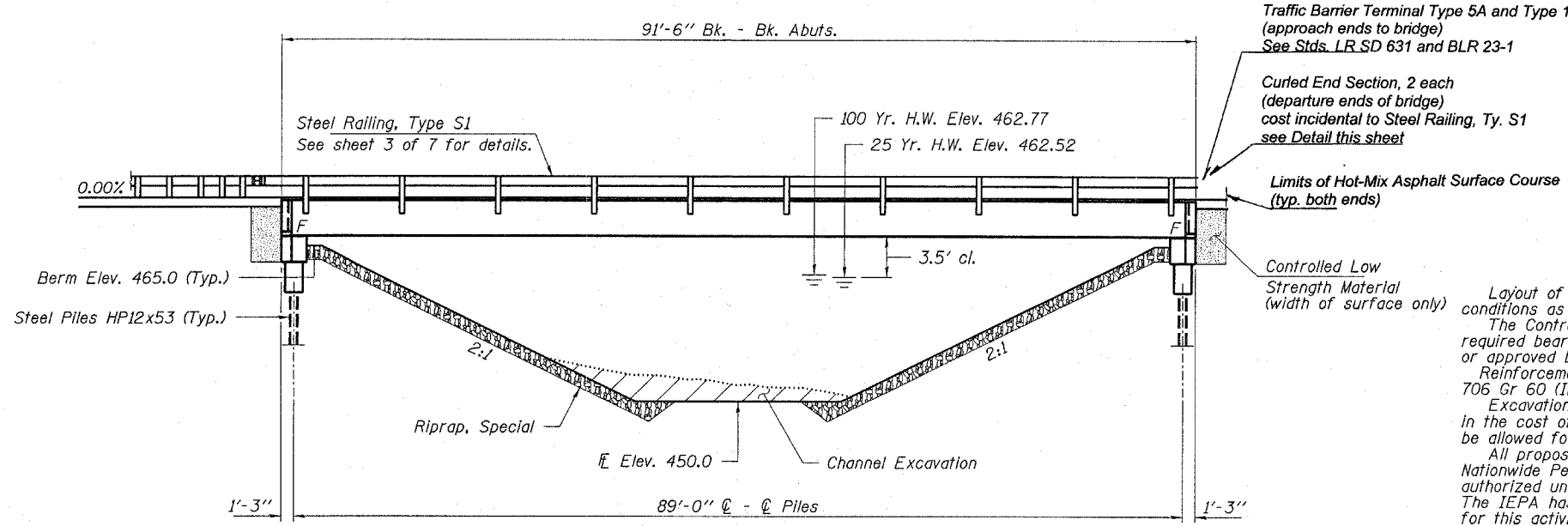


J.U.L.I.E.
1-800-892-0123

CONTRACTOR WILL FIELD VERIFY THE LOCATION
OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION

DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
NOTE BOOK NO.	
PLAN	

DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
NOTE BOOK NO.	
PROFILE	



ELEVATION

GENERAL NOTES

Layout of riprap may be varied in the field to suit ground conditions as directed by the Engineer.

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at North Abutment or approved by the Engineer before ordering the remainder of piles.

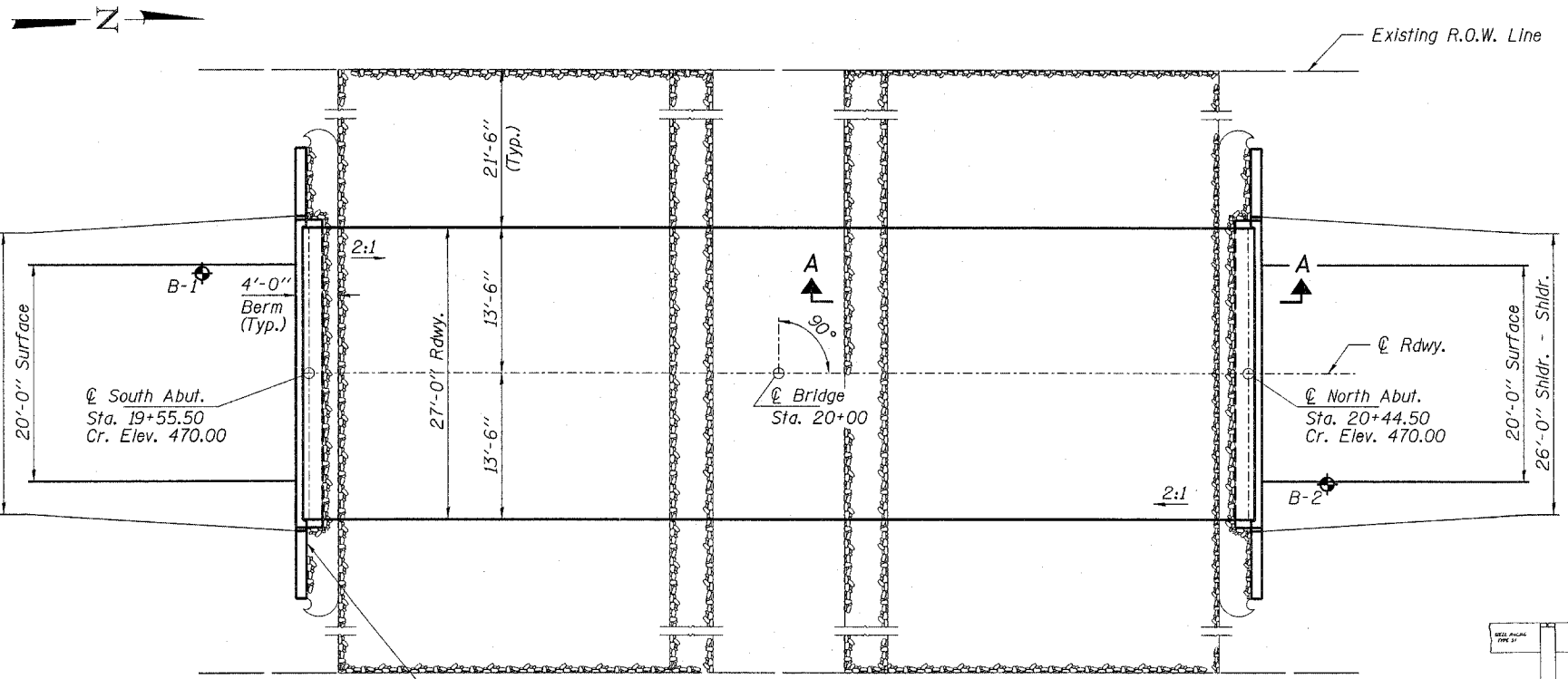
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

Excavation required to construct the Abutments shall be included in the cost of Concrete Structures. No additional compensation will be allowed for Structure Excavation.

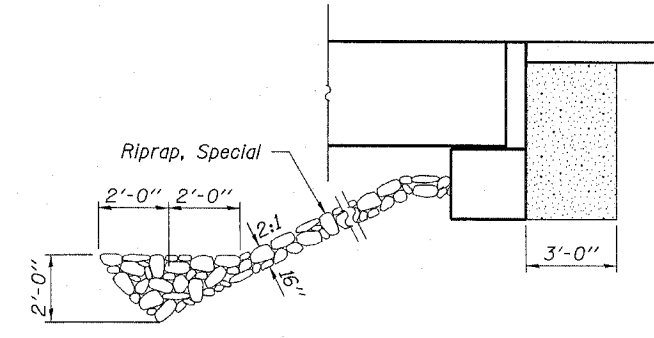
All proposed construction activities shall be in accordance with Nationwide Permit number 14 of the Department of the Army authorized under Section 404 of the Clean Water Act. The IEPA has issued Section 401 Water Quality Certification for this activity. See Special Provisions for conditions.

HORSE CREEK
BUILT 200 BY
JEFFERSON COUNTY
SEC. 95-00158-00-BR
F.A. PROJ. BRS-789(113)
STR. NO. 041-3736
LOADING HS-20

NAME PLATE
See Std. 515001

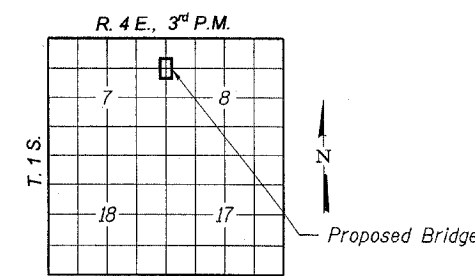


PLAN

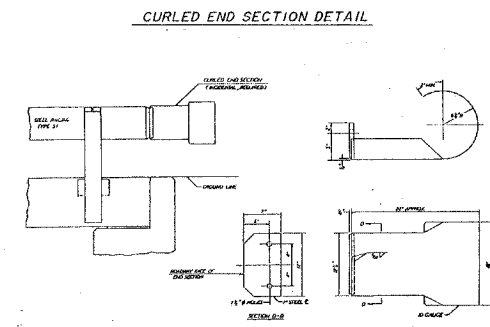


SECTION A-A

Note: See Special Provisions for Riprap, Special.



LOCATION SKETCH



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Riprap, Special	Ton			470
Hot-Mix Asphalt Surface Course, Mix "C", N50	Ton			37
Concrete Structures	Cu. Yd.		24.2	24.2
Concrete Encasement	Cu. Yd.		3.4	3.4
Precast Prestressed Concrete Deck Beams (42" Depth)	Sq. Ft.	2,435		2,435
Stud Shear Connectors	Each		40	40
Reinforcement Bars	Pound		3,440	3,440
Steel Railing, Type S1	Foot	189		189
Steel Piles HP12x53	Foot		945	945
Test Pile Steel HP12x53	Each		1	1
Name Plates	Each		1	1
Controlled Low-Strength Material	Cu. Yd.			25

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinf.)

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
f'ci = 5,000 psi
f's = 270,000 psi (1/2" low lax. strands)
f'si = 201,960 psi (1/2" low lax. strands)
fy = 60,000 psi (Reinf.)

Loading HS 20-44
Design Specifications: 2002 AASHTO & all applicable interims.
50#/Sq. Ft. included in dead load for future wearing surface.

SEISMIC DATA

Seismic Performance Category (SPC) = B
Bedrock Acceleration Coefficient (A) = 0.095g
Site Coefficient (S) = 1.5

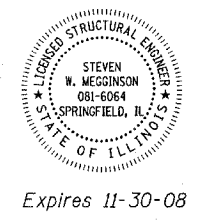
WATERWAY INFORMATION

Drainage Area = 26.8 Sq. Mi. Low Grade Elev. 466.90 @ Sta. 20+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
Design	25	3243	607	575	462.5	0.0	0.0	462.5	462.5
Base	100	3949	607	575	462.8	0.0	0.1	462.8	462.9
Overtopping									
Max. Calc.									

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 Specifications for Highway Bridges".

Steven W. Meigs 1-11-07
ILLINOIS STRUCTURAL NO. 081-6064



Expires 11-30-08

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-49-0007-1 DATE: 01/12/07
DESIGNED: R.J.P. CHECKED: S.W.M. DRAWN: D.T.M.

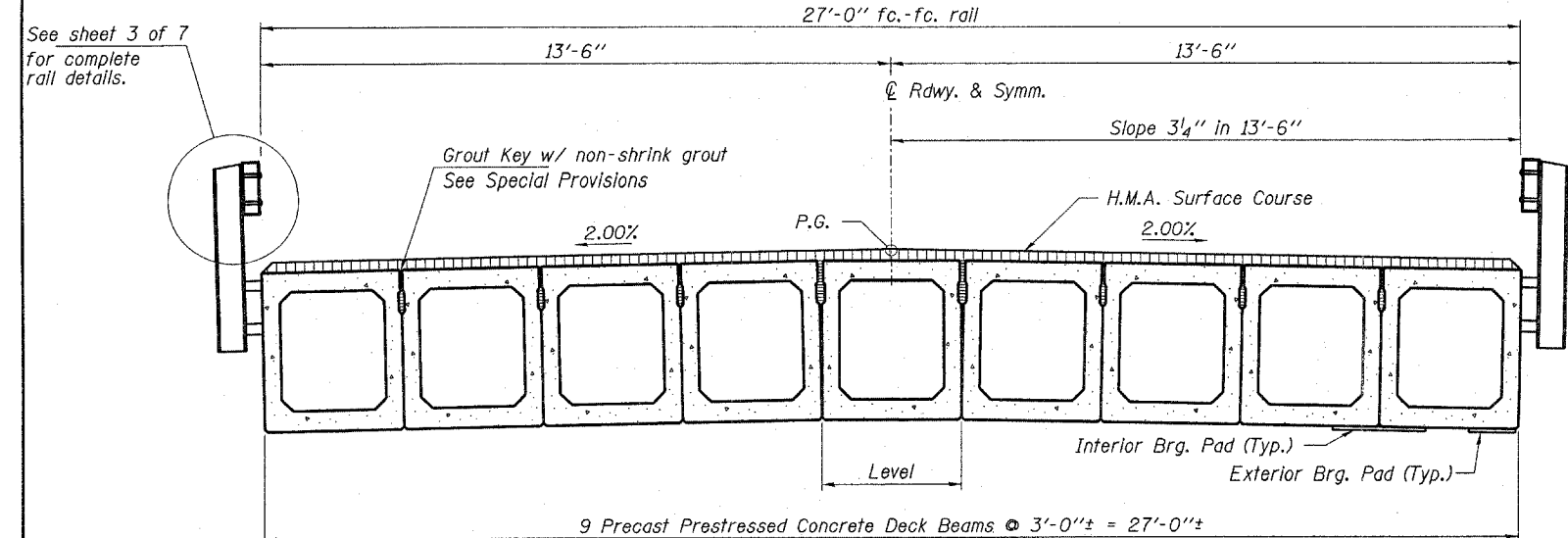
GENERAL PLAN AND ELEVATION

SECTION 95-00158-00-BR

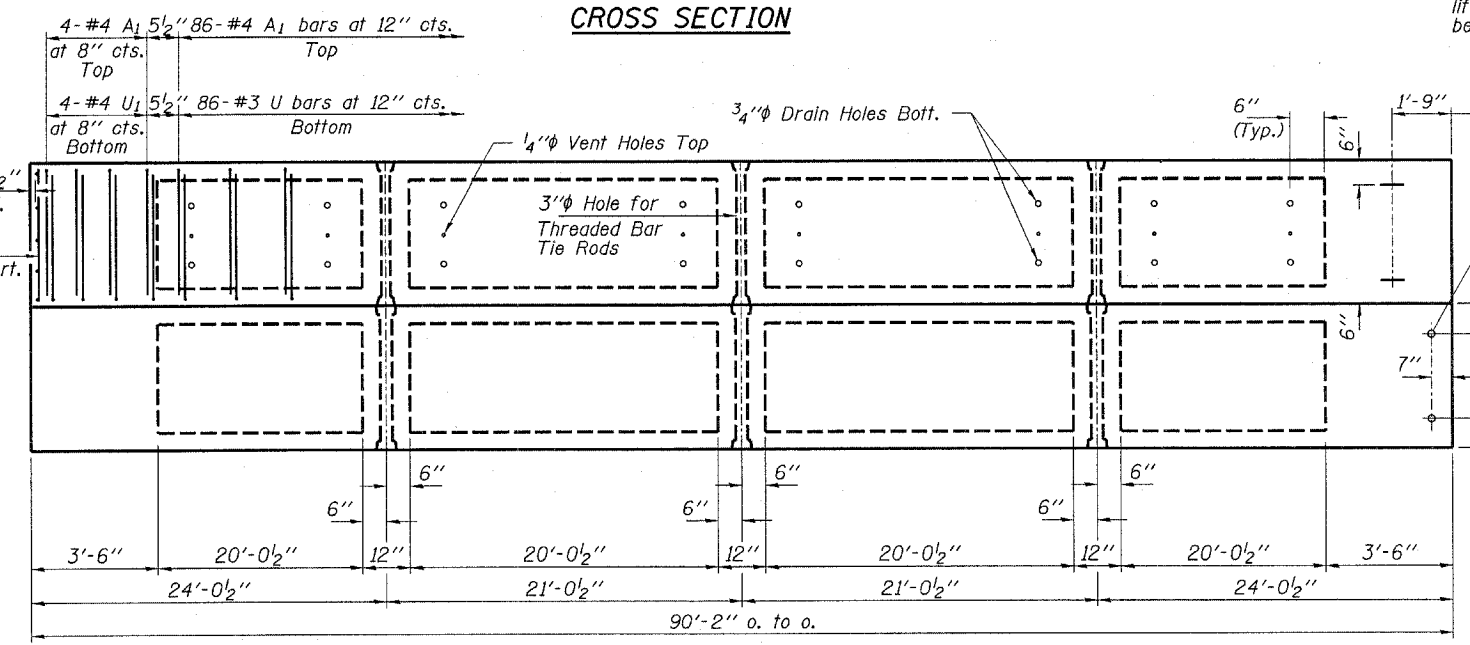
C.H. 3 / F.A.S. 789

JEFFERSON COUNTY

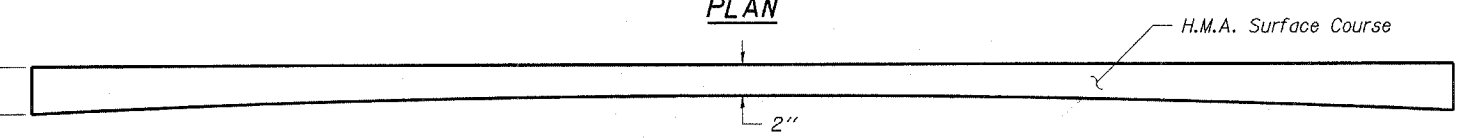
STRUCTURE NO. 041-3736 / STATION 20+00



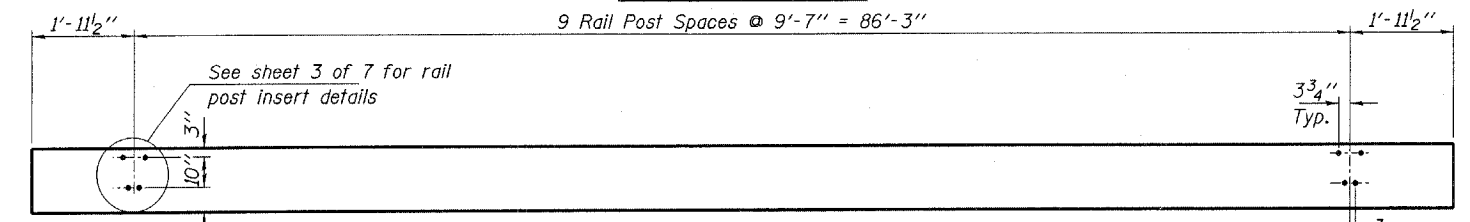
CROSS SECTION



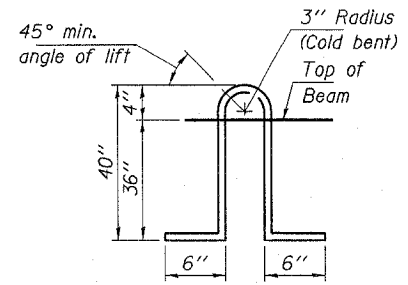
PLAN



CAMBER DIAGRAM

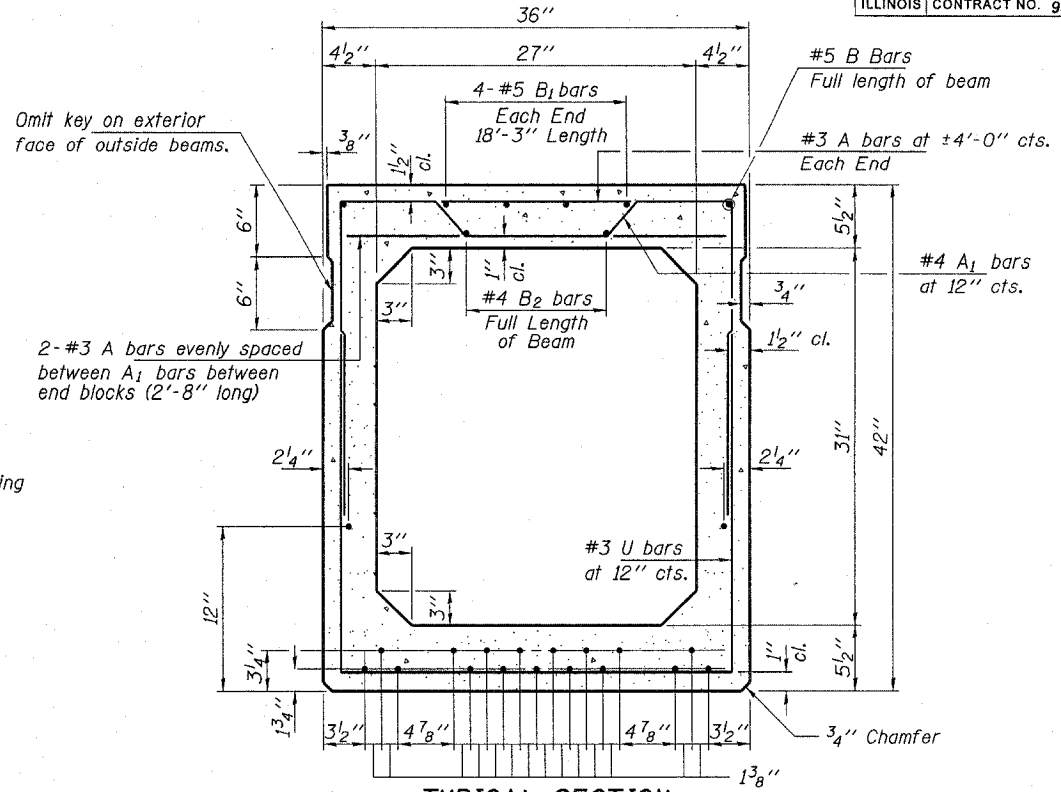


ELEVATION OF OUTSIDE BEAMS
Showing Rail Post Spacing



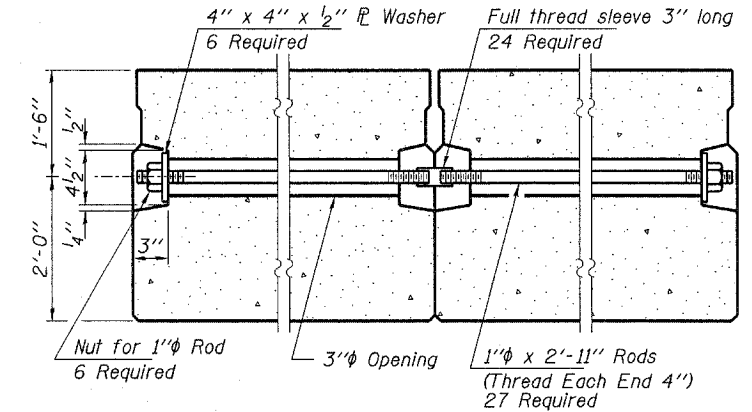
LIFTING LOOP DETAIL

Note:
The loop shall be formed in a manner such that all strands are engaged during lifting. Loops shall be cut off after beams have been erected.



TYPICAL SECTION

19-1/2" Strands Each Strand Stressed to 30,900 Lbs.
9-Strands 1 3/4" up, 8-Strands 3/4" up, 2-Strands 12" up



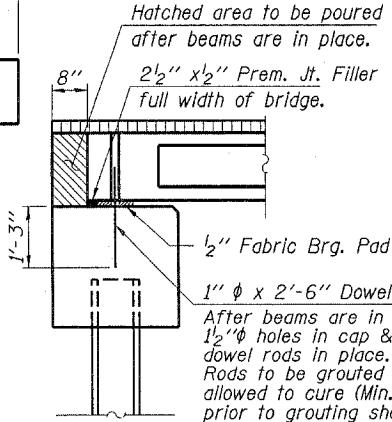
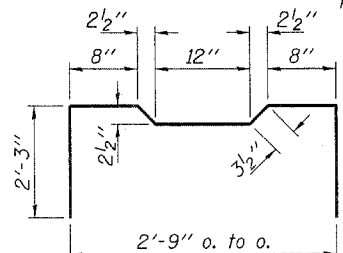
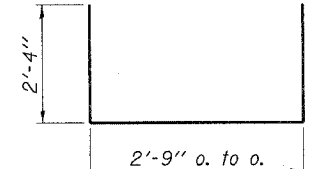
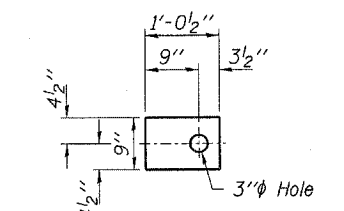
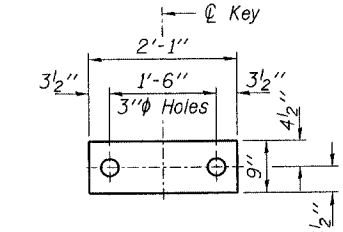
TYPICAL TRANSVERSE TIE ASSEMBLY

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. Lifting loops shall be 4-1/2" 270 ksi strands, as shown. 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 on outside shall be filled with grout after transverse tie assembly is in place. Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 (IL Modified). See Special Provisions. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing. 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 top of the beam and the bottom edge of the key. A Calcium Nitrate Corrosion Inhibitor shall be used in the concrete for precast prestressed concrete deck beams. Required Release Strength, f'ci, shall be 5,000 p.s.i.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Precast Prestressed Concrete Deck Beams (42" Depth)	Sq. Ft.	2,435



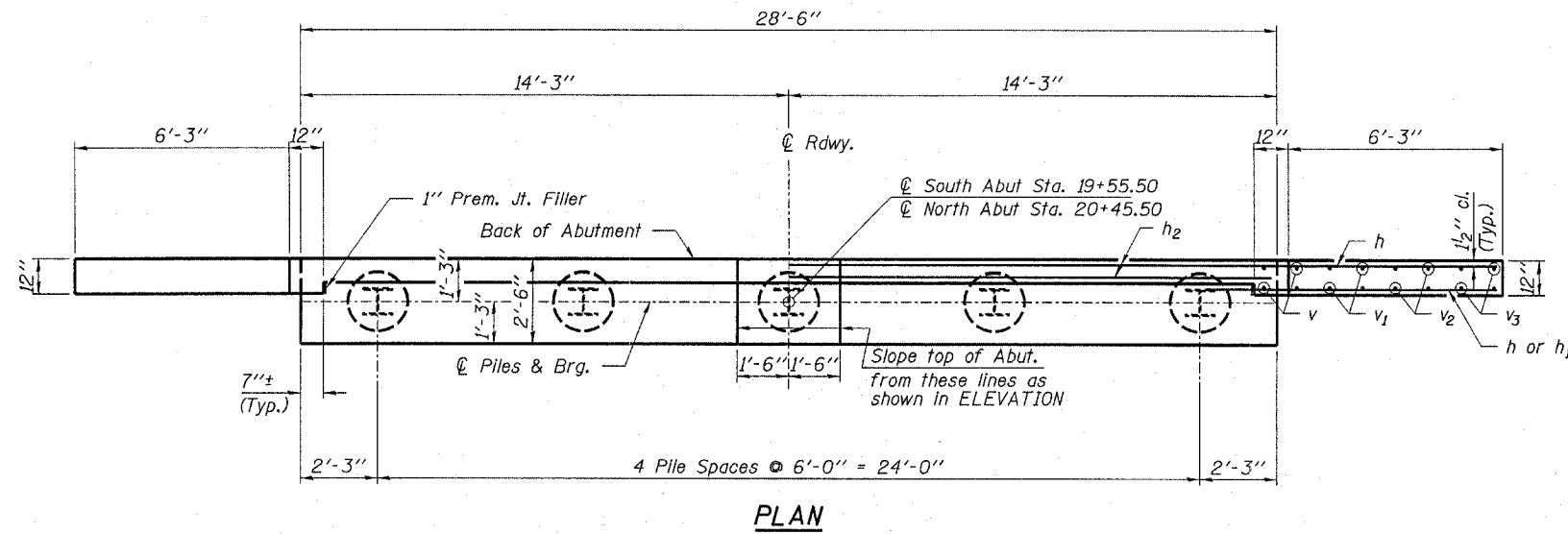
SECTION AT ABUTMENTS

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

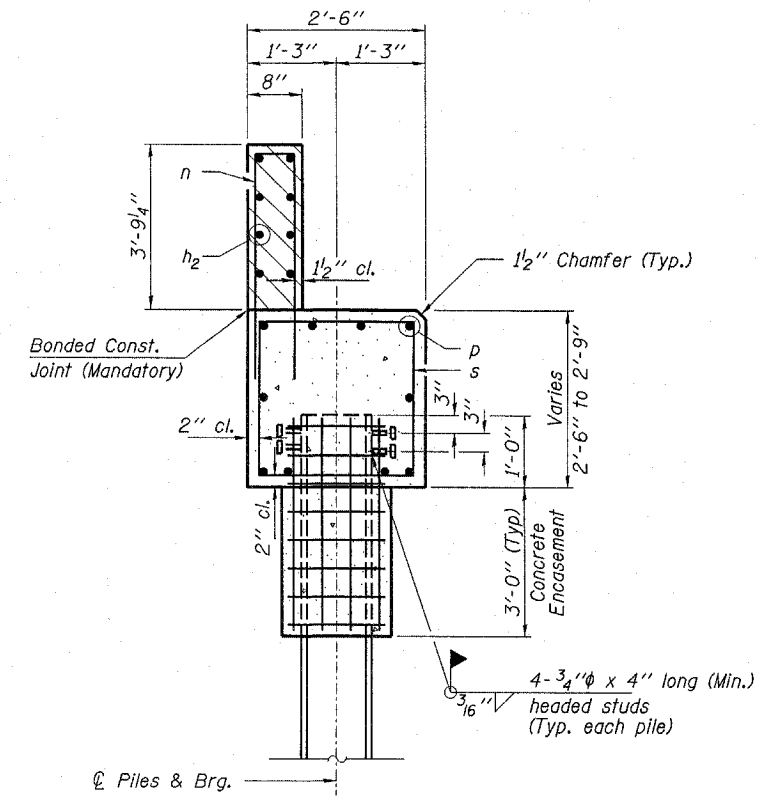
PROJECT NUMBER: 12-49-0007-1	DATE: 01/12/07
DESIGNED: R.J.P.	CHECKED: S.W.M.
DRAWN: D.T.M.	

SUPERSTRUCTURE
SECTION 95-00158-00-BR
C.H. 3 / F.A.S. 789
JEFFERSON COUNTY

STRUCTURE NO. 041-3736 / STATION 20+00

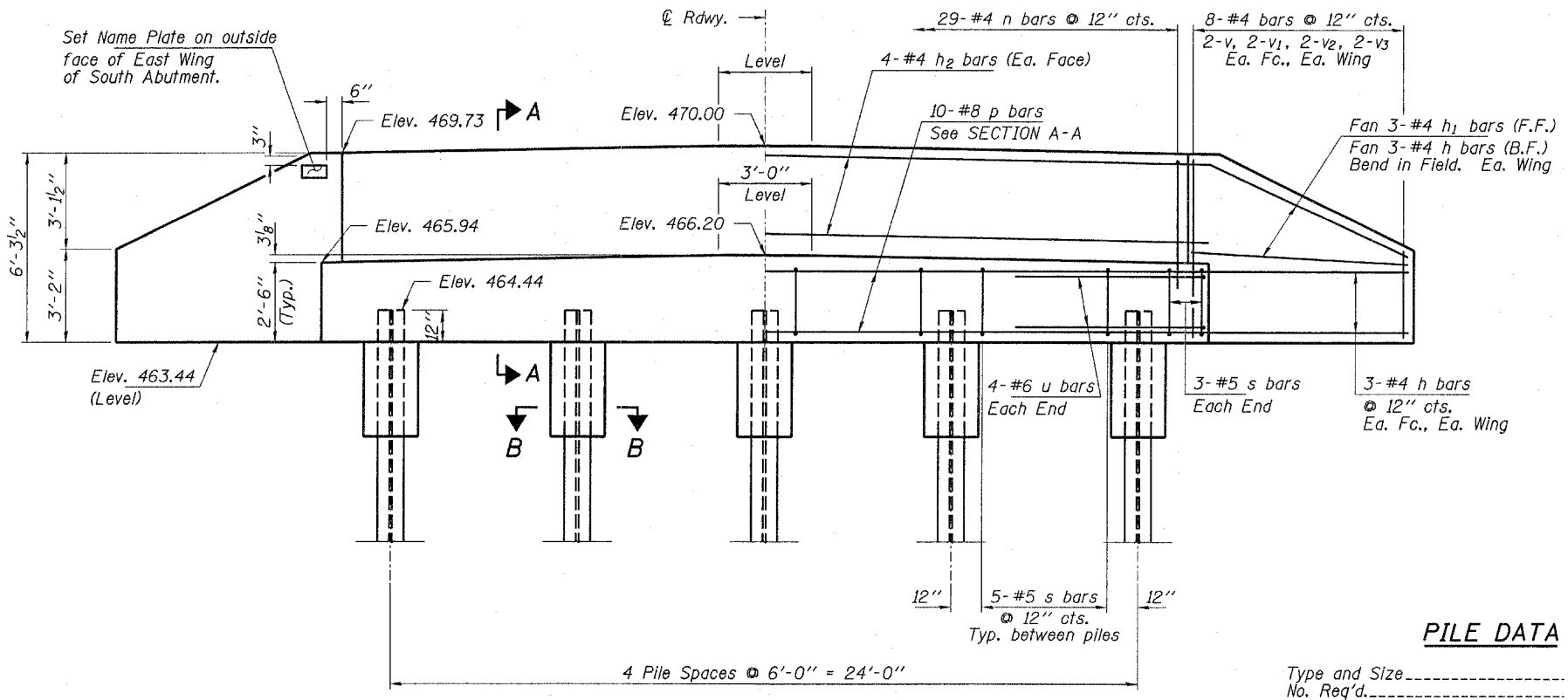
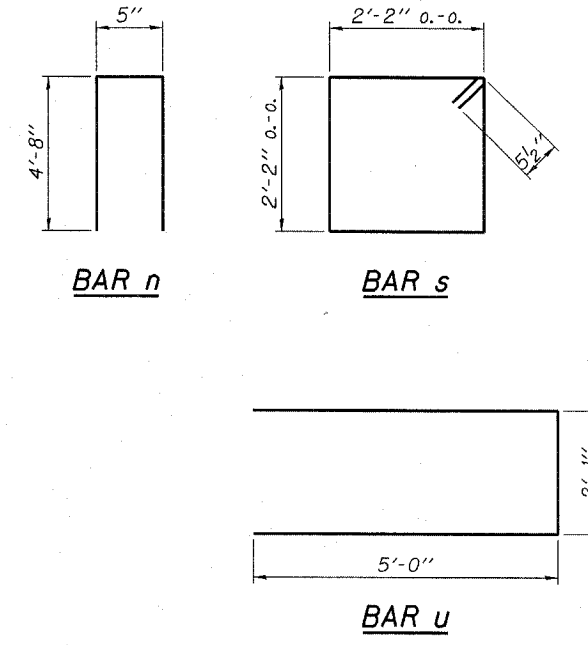


PLAN

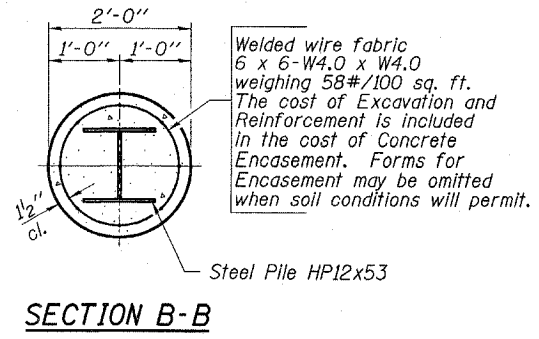


SECTION A-A

Hatched area to be poured after beams are in place.



ELEVATION



SECTION B-B

PILE DATA

Type and Size.....Steel HP12x53
 No. Req'd.....*10
 Nominal Req'd Bearing.....418 Kips/Pile
 Allowable Resistance Available.....139 Kips/Pile
 Est. Lengths.....105 Ft/Pile (S. Abut.)
 105 Ft/Pile (N. Abut.)

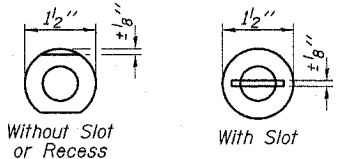
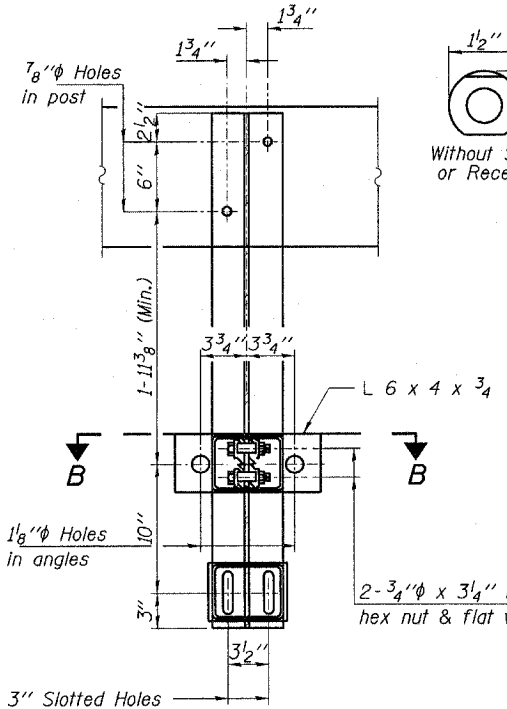
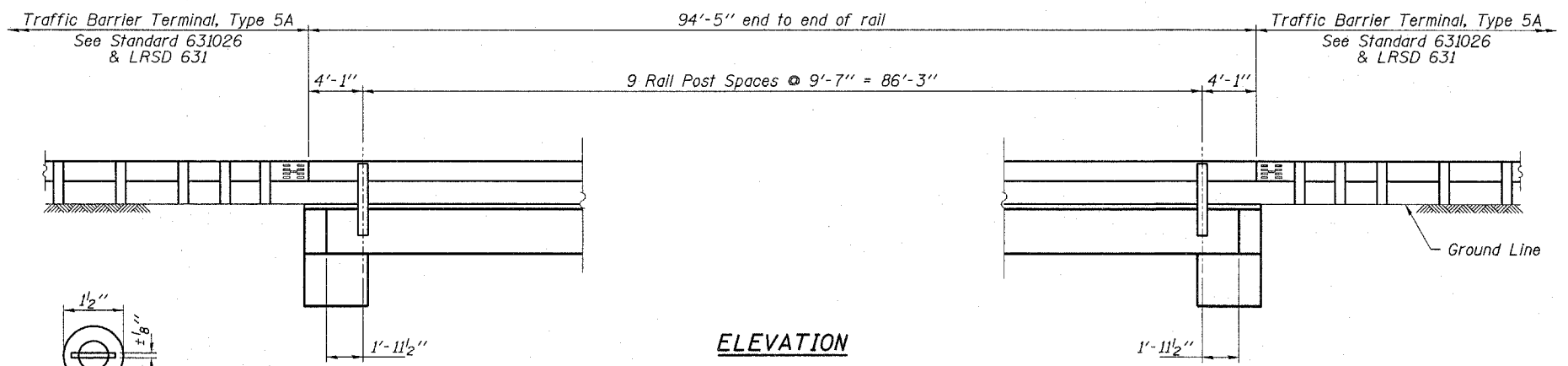
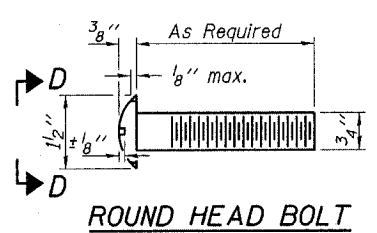
Notes: The Steel H-Piles shall be according to AASHTO M270 Grade 50.
 The test pile shall be driven to 110 percent of the Nominal Required Bearing Indicated in the pile data information.
 *Includes one test pile to be driven in a permanent location at the North Abutment.

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h	36	#4	8'-6"	—
h ₁	12	#4	7'-0"	—
h ₂	16	#4	29'-0"	—
n	58	#4	9'-9"	□
p	20	#8	28'-2"	—
s	52	#5	9'-7"	□
u	16	#6	12'-1"	—
v	16	#4	5'-8"	—
v ₁	16	#4	4'-8"	—
v ₂	16	#4	3'-8"	—
v ₃	16	#4	2'-8"	—
Concrete Structures				Cu. Yd. 24.2
Concrete Encasement				Cu. Yd. 3.4
Shear Stud Connectors				Each 40
Reinforcement Bars				Pound 3,440
Steel Piles HP12x53				Foot 945
Test Pile Steel HP12x53				Each 1
Name Plates				Each 1

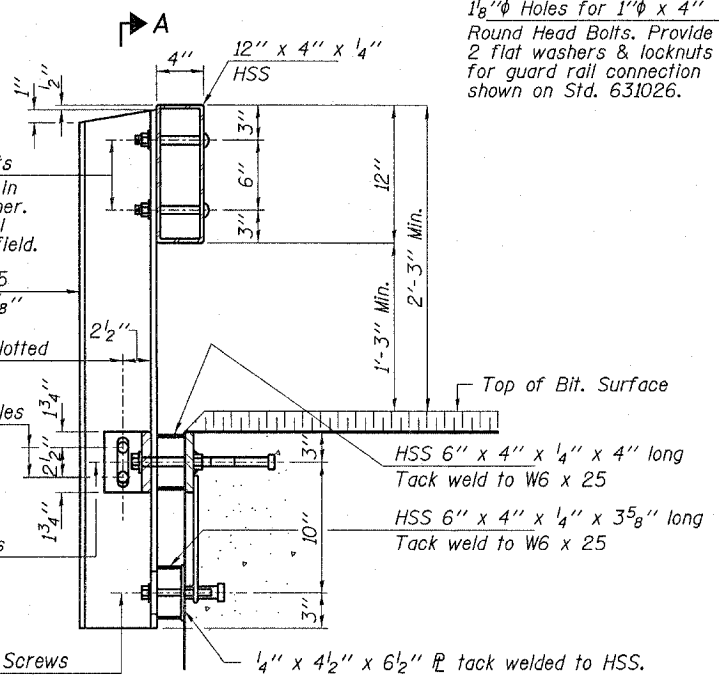
HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS
 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 (217) 546-3400
 ELGIN • SPRINGFIELD
 PROJECT NUMBER: 12-49-0007-1 DATE: 01/12/07
 DESIGNED: R.J.P. CHECKED: S.W.M. DRAWN: D.T.M.

ABUTMENTS
 SECTION 95-00158-00-BR
 C.H. 3 / F.A.S. 789
 JEFFERSON COUNTY
 STRUCTURE NO. 041-3736 / STATION 20+00



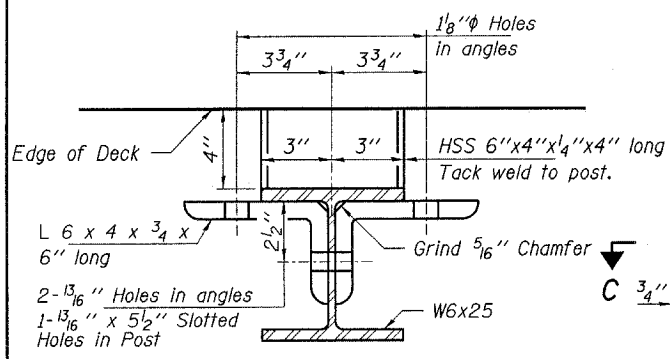
VIEW D-D

2-3/4" φ x 6" Round Head Bolts (With slot or approved recess in head) with locknut & flat washer. 7/8" φ Holes in hollow structural section may be drilled in the field.

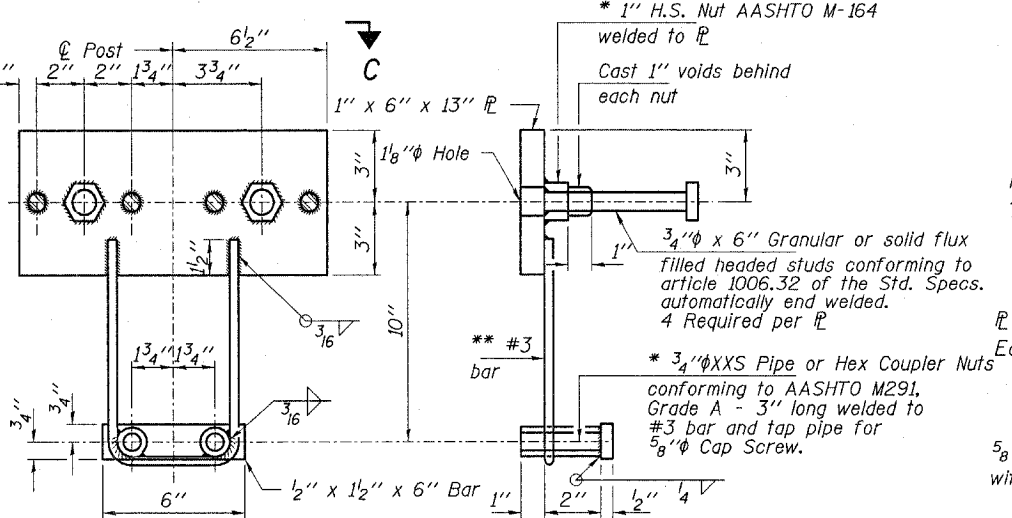
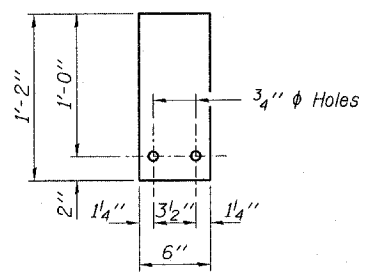


SECTION AT RAIL POST

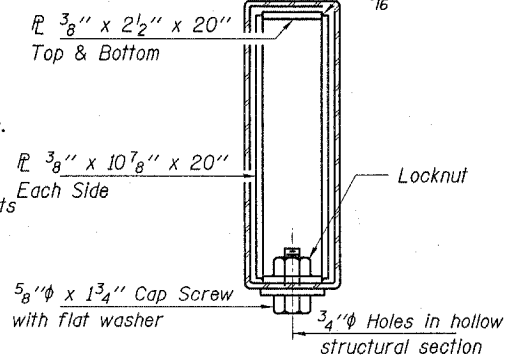
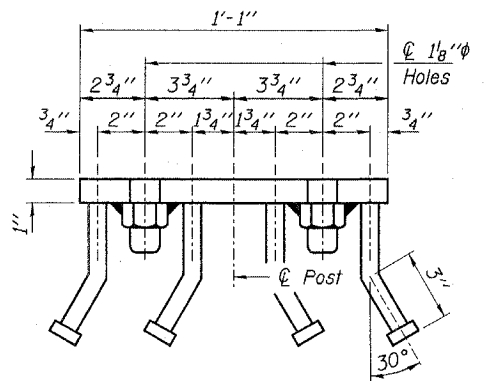
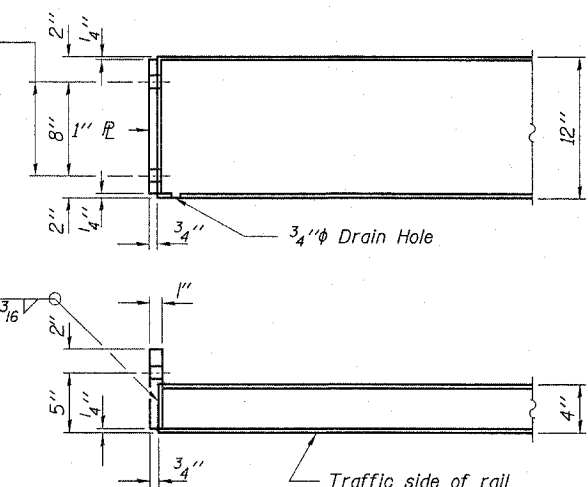
** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".



SECTION B-B



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



RAIL SPLICE CONNECTION AT EXPANSION JT.

HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS
 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 (217) 546-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-49-0007-1 DATE: 01/12/07
 DESIGNED: R.J.F. CHECKED: S.W.M. DRAWN: D.T.M.

NOTES

Hollow structural sections shall conform to the requirements of A.S.T.M. 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 A.A.S.H.T.O. designation M-270 Grade 36 except posts and angles shall conform to A.A.S.H.T.O. M-270 Grade 50.

Bolts, cap screws, and nuts shall conform to the requirements of A.S.T.M. designation A-307 except for high strength bolts, nuts and washers noted which shall conform to A.A.S.H.T.O. designation M-164.

All bolts, nuts, cap screws, washers and lockwashers shall be galvanized in accordance with A.A.S.H.T.O. designation M-232.

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

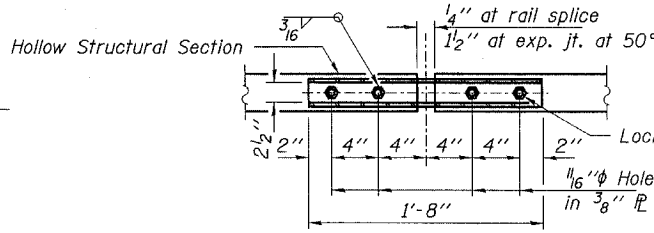
Railing shall be in accordance with Section 509 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per foot for STEEL RAILING, TYPE S1.

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

The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 1060.07 Type II or place 1/8 inch fabric bearing pad between the post and concrete.

The 3/4 inch high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened in accordance with Art. 505.04(f)(2) of the Standard Specifications. The 1 inch 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 inch cap screws in bottom of posts shall be tightened to a snug fit only.

For multi-span bridges, sufficient 1/4 inch x 6 inch x 1'-2 inch galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with STEEL RAILING, TYPE S1.



PLAN-BOTT. SPLICE PL TYPICAL

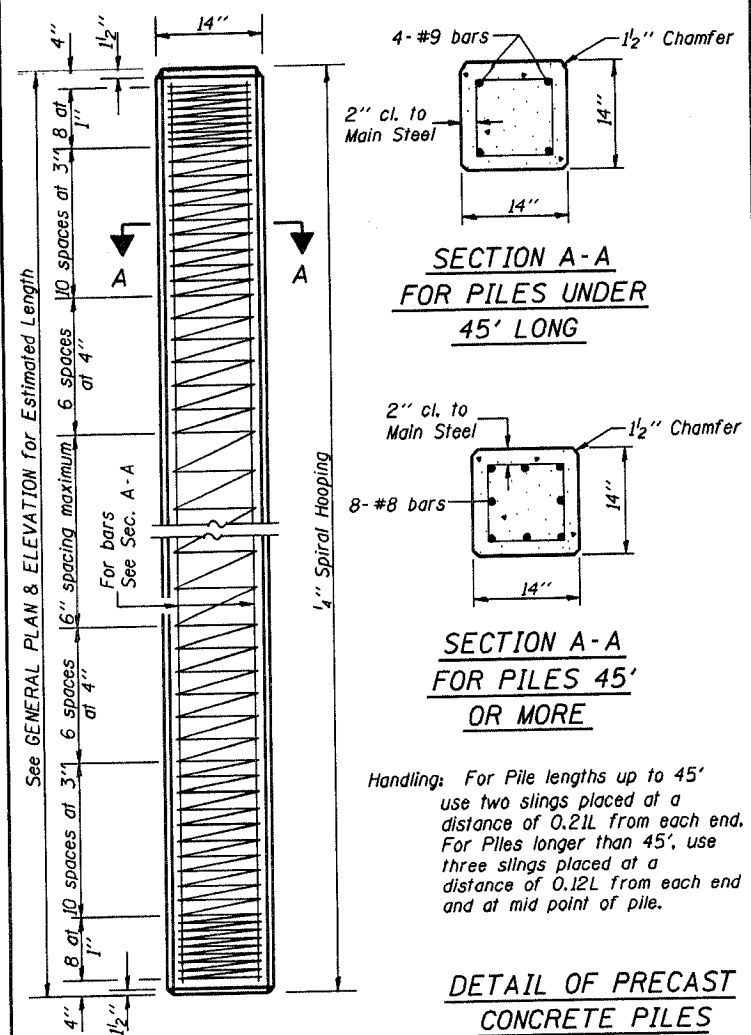
BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S1	Foot	189

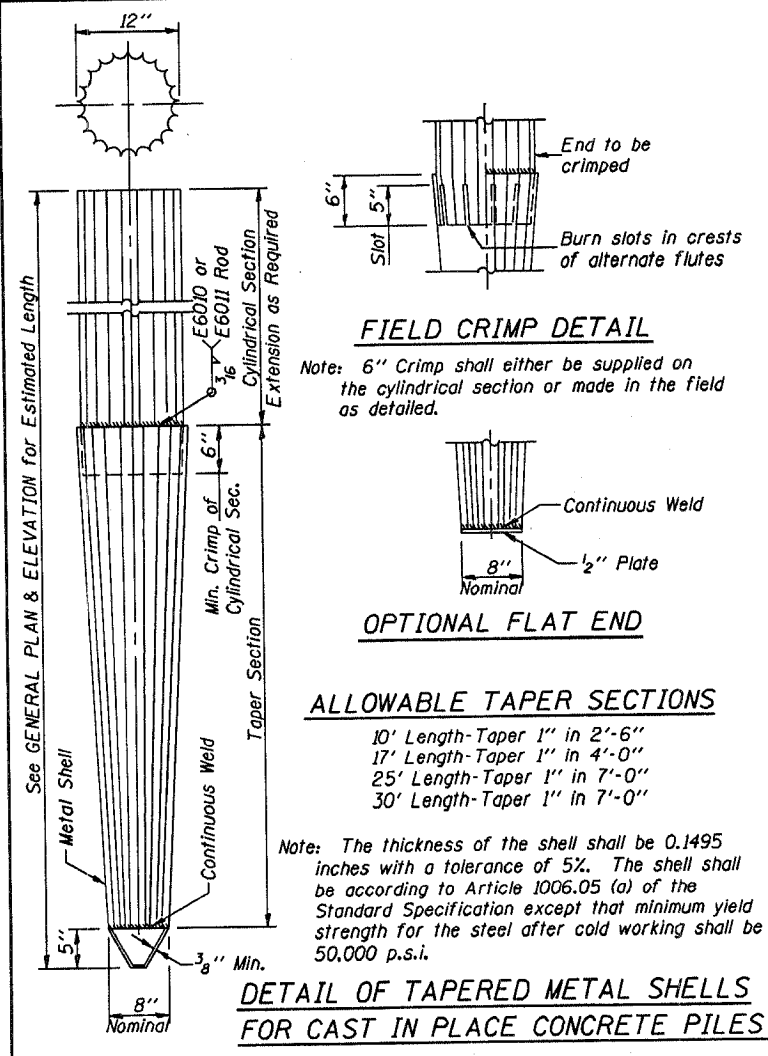
RAILING DETAILS
 SECTION 95-00158-00-BR
 C.H. 3 / F.A.S. 789
 JEFFERSON COUNTY
 STRUCTURE NO. 041-3736 / STATION 20+00

Reinforcement cage shall be omitted when Concrete Encasement is provided.

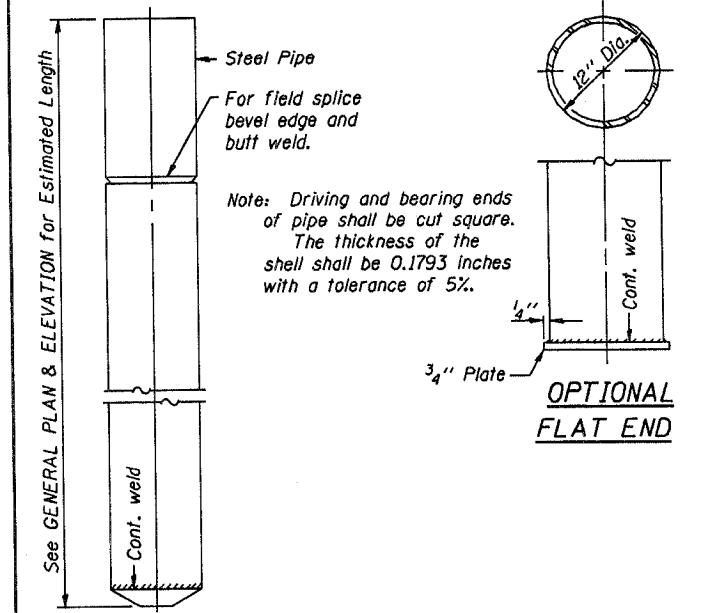
The cost of Reinforcement is included with the Cost of Furnishing Piles.



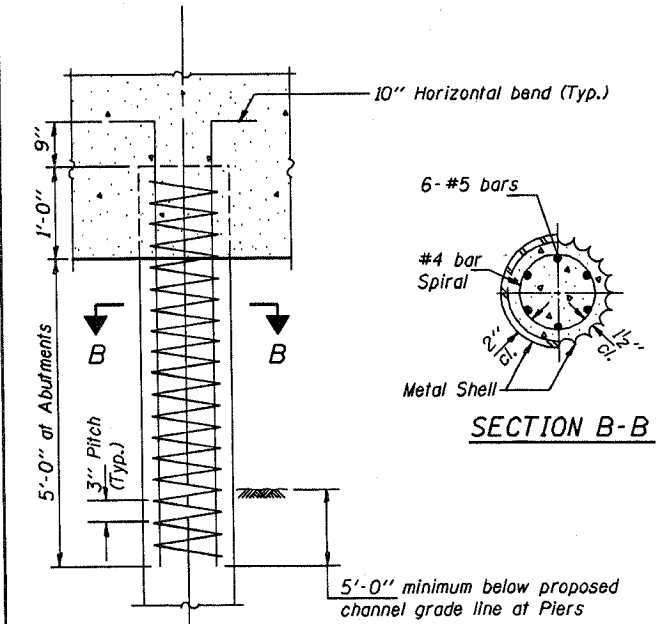
DETAIL OF PRECAST CONCRETE PILES



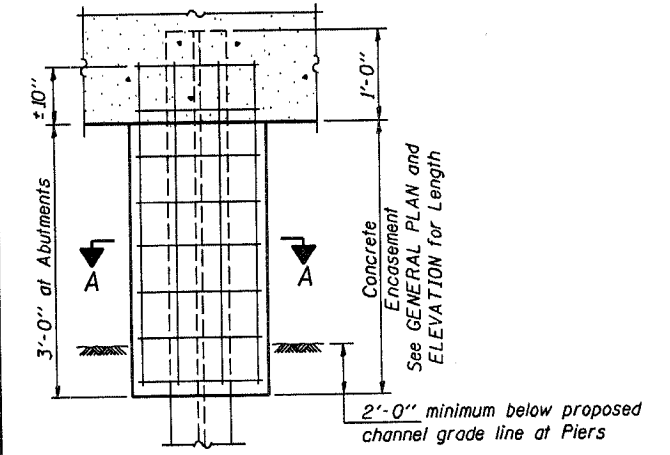
DETAIL OF TAPERED METAL SHELLS FOR CAST IN PLACE CONCRETE PILES



DETAIL OF CYLINDRICAL STEEL SHELL FOR CAST IN PLACE CONCRETE PILES

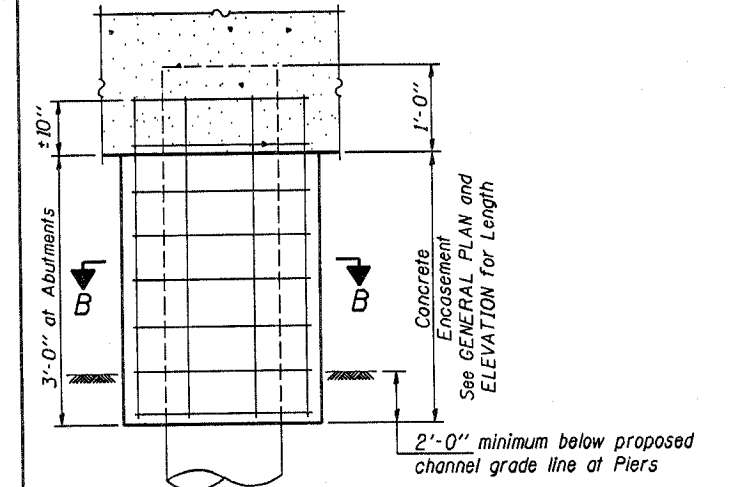


DETAIL OF REINFORCEMENT FOR METAL SHELLS



DETAIL OF HP PILE ENCASEMENT

Pile	'F'
HP8	1'-6"
HP10	1'-9"
HP12	2'-0"



DETAIL OF METAL SHELL PILE ENCASEMENT

QUANTITIES/FT. OF ENCASEMENT (STEEL PILES)

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

(METAL SHELL PILES)

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

PILE DETAILS
STANDARD CX-1

Illinois Department of Transportation

PASSED FEBRUARY 1, 2000

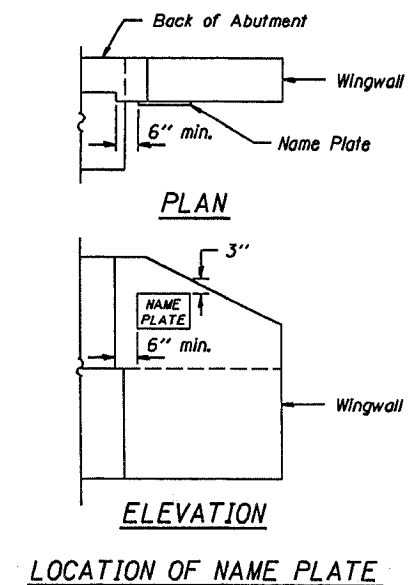
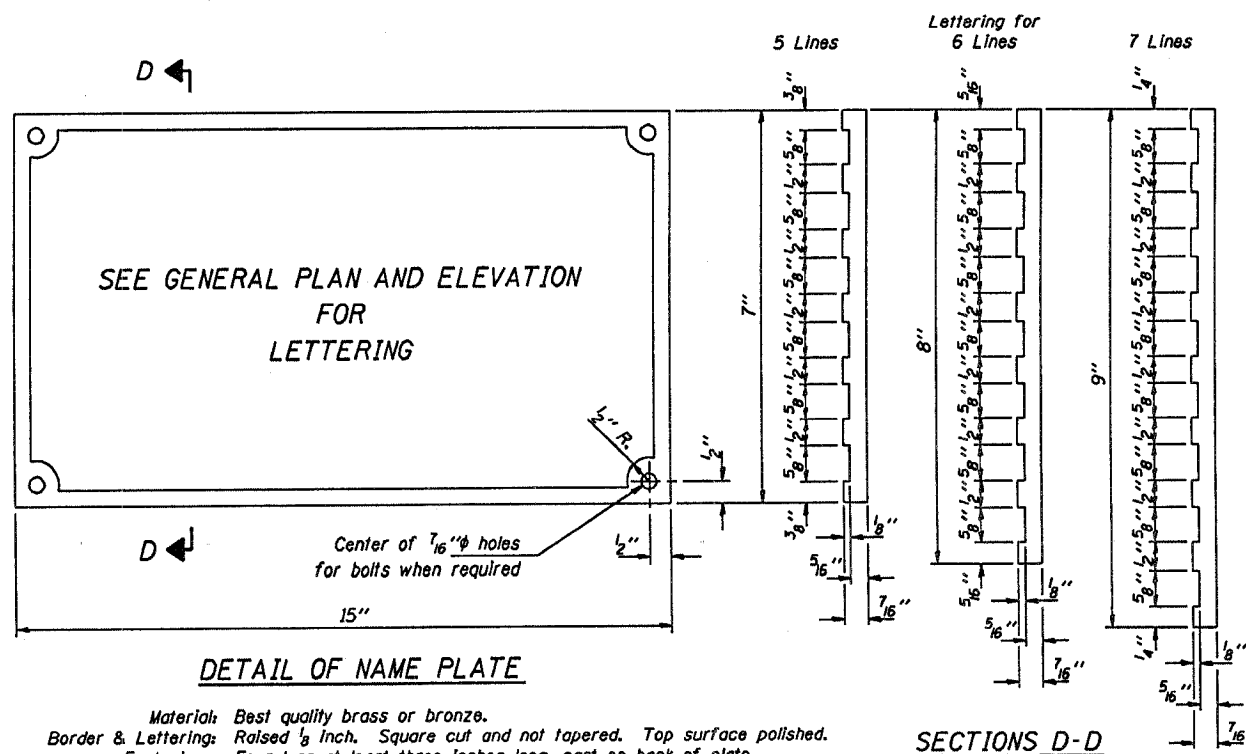
Thomas J. Nagelski
 Engineer of Bridge Design

APPROVED FEBRUARY 1, 2000

Ralph E. Anderson
 Engineer of Bridges and Structures

ROUTE	SECTION	COUNTY	TOT. SHTS.	SHT.
FAS 789	95-00158-00-BR	JEFFERSON	12	8
JEFFERSON COUNTY				

CONTRACT 99286



Illinois Department of Transportation

PASSED APRIL 4, 2005

Thomas S. Demagala
Engineer of Design

APPROVED APRIL 4, 2005

Ralph E. Anderson
Engineer of Bridges and Structures

ISSUED 7-1-2005

NAME PLATE
STANDARD CN



Illinois Department of Transportation
Division of Highway
IL Dept. of Trans. D-7

SOIL BORING LOG

Page 1 of 4

Date 5/24/05

ROUTE CH 3 DESCRIPTION Horse Creek LOGGED BY E. Sandschafer
SECTION 95-00158-00-BR LOCATION Sec 7 - NE 1/4, Sec 8 - NW 1/4, SEC. TWP. 1 S. RNG. 4 E. 3 PM
COUNTY Jefferson DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 041-3031
Station

BORING NO. 1 (S Abut)
Station 18' S of exist S Abut
Offset 9.00ft W of centerline
Ground Surface Elev. 469.87 ft

DEPTH (ft)	DIAMETER (ft)	UNIT	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	DIAMETER (ft)	UNIT	MOISTURE (%)
				Surface Water Elev. 454.30 ft				
				Stream Bed Elev. 450.89 ft				
				Groundwater Elev.:				
				First Encounter 452.92 ft				
				Upon Completion Washed ft				
				After Hrs. samples ft				
0				Very loose, wet, gray, medium grained, SAND. 5% passing #200 sieve. (continued)	0			26
5					5			
6	+2.5	20		Stiff, damp, gray, CLAY TILL w/ some sand.	6	1.4	BS	15
6	PP				6			
465.37					2			
				Soft, very damp, gray, SILTY CLAY LOAM.	4	1.4	BS	15
					6			
462.87					2			
				Very soft, very damp, gray, SILTY LOAM.	5	1.7	B	16
					6			
					3			
					6	1.5	B	15
					8			
					0			
					0	0.4	S	19
				Soft, damp, gray, SANDY LOAM.	1			
					0			
					2	0.4	S	20
					2			
					0			
				Many wood fragments.	0	0.3	S	28
					1			
					0			
					0			
459.87					2			

Latitude N 28 deg 27.45 min, Longitude W 89 deg 47.57 min, Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highway
IL Dept. of Trans. D-7

SOIL BORING LOG

Page 2 of 4

Date 5/24/05

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				Groundwater Elev.:				
				First Encounter 452.92 ft				
				Upon Completion Washed ft				
				After Hrs. samples ft				
5				Stiff, damp, gray, CLAY TILL w/ some sand.	3	1.0	B	18
6					4			
465.37					2			
				Medium to stiff, damp, gray, CLAY TILL w/ some sand.	3	1.0	B	17
					5			
462.87					2			
					3	1.0	B	17
					5			
					0			
					2	0.5	B	14
				Soft to medium, very damp, dark gray, SILTY CLAY.	4			
					0			
					0			
459.87					2			

Latitude N 28 deg 27.45 min, Longitude W 89 deg 47.57 min, Map Datum WGS 84

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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BORING 1

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-49-0007-I DATE: 01/12/07
DESIGNED: R.J.P. CHECKED: S.W.M. DRAWN: D.T.M.

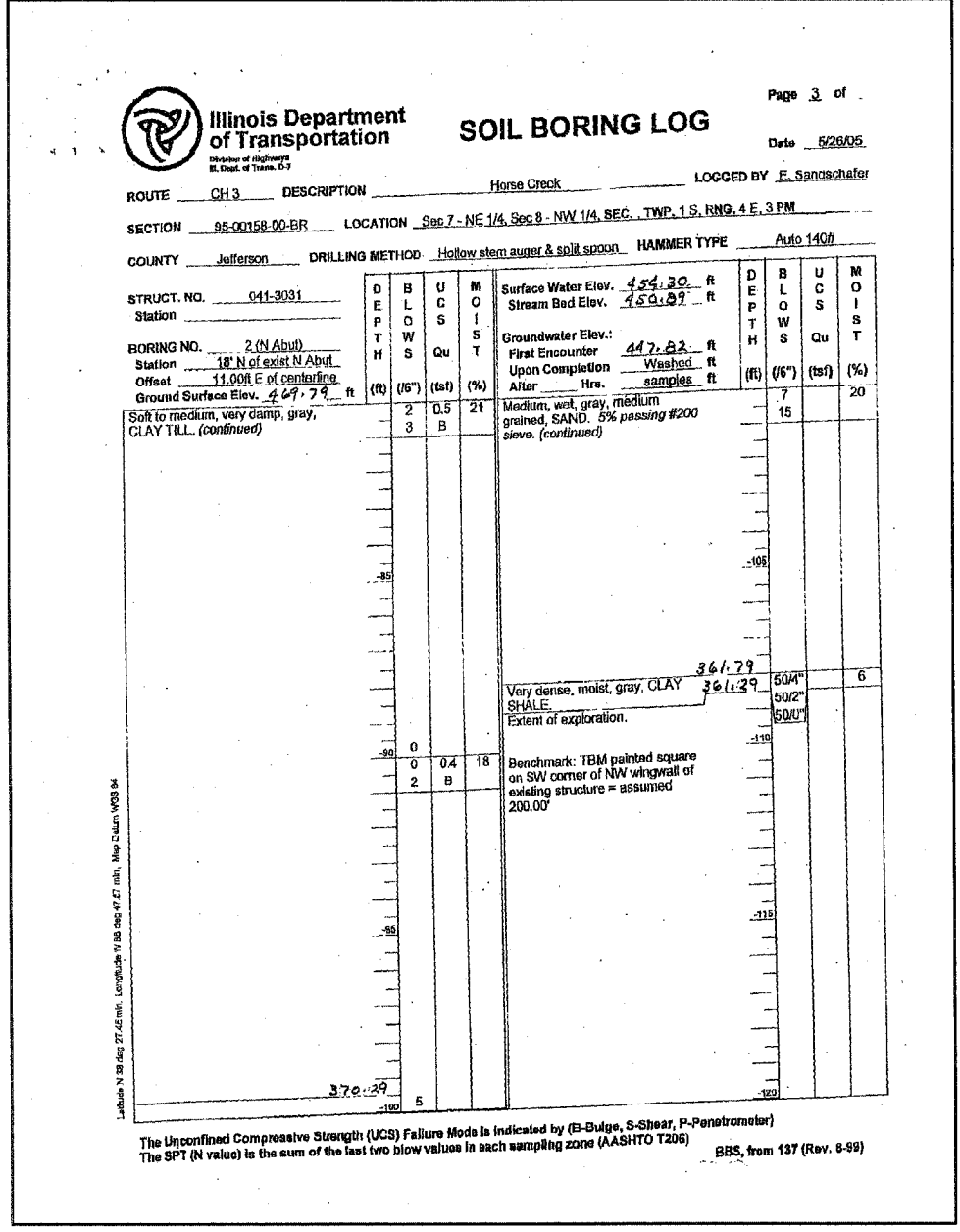
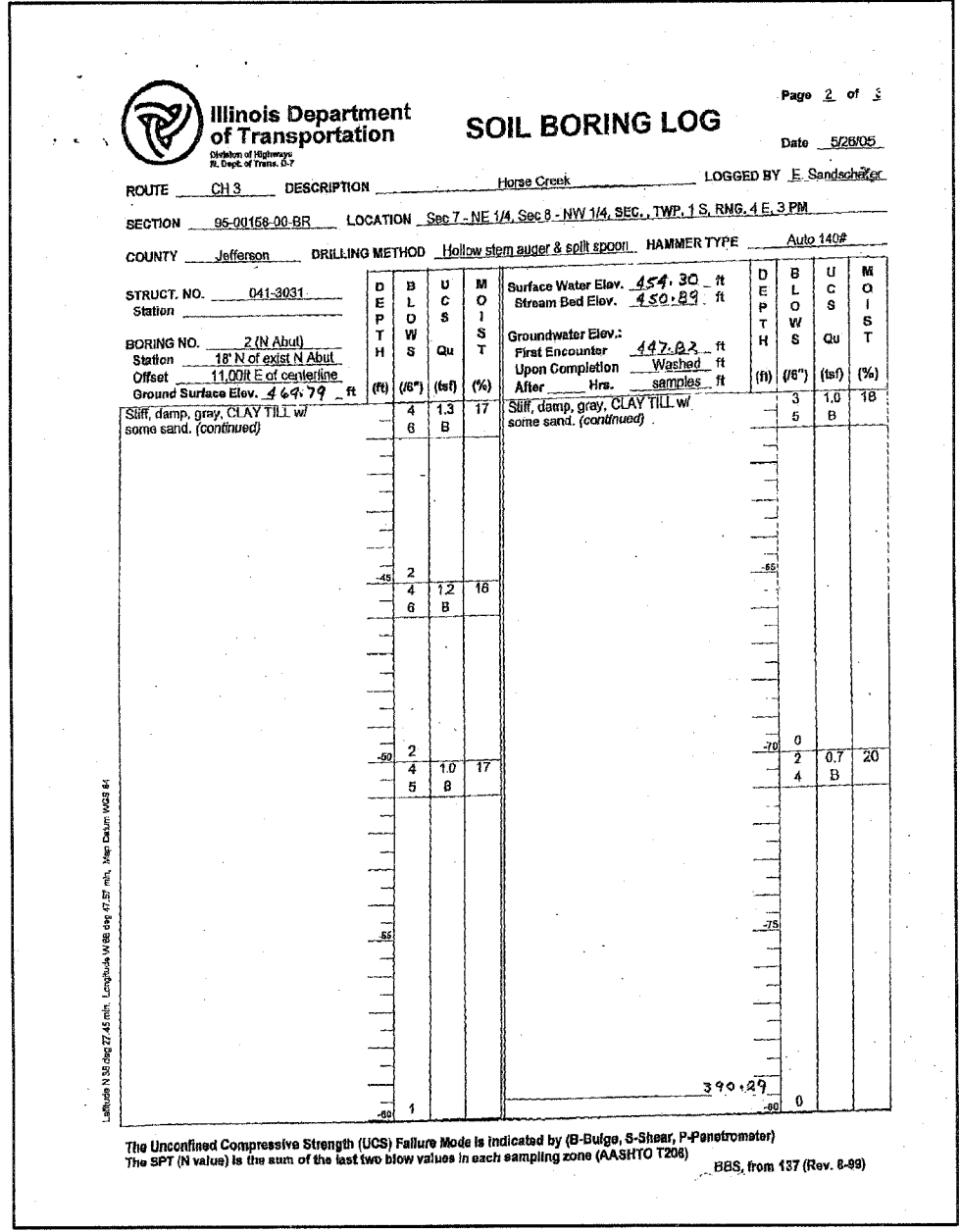
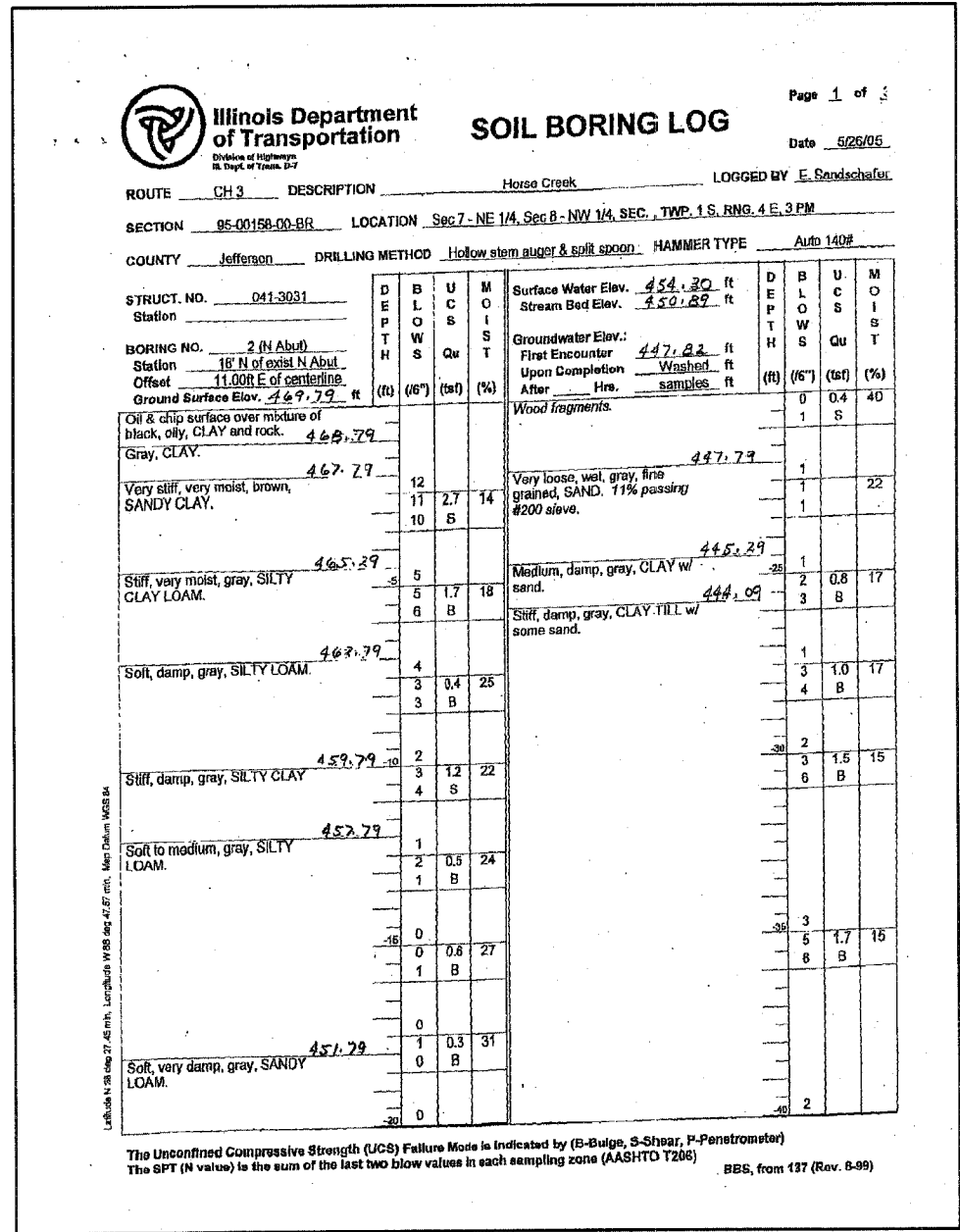
BORINGS

SECTION 95-00158-00-BR


C.H. 3 / F.A.S. 789

JEFFERSON COUNTY

STRUCTURE NO. 041-3736 / STATION 20+00



BORING 2

 <p>ELGIN • SPRINGFIELD</p>	HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS		BORINGS SECTION 95-00158-00-BR C.H. 3 / F.A.S. 789 JEFFERSON COUNTY STRUCTURE NO. 041-3736 / STATION 20+00
	3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400		
	PROJECT NUMBER: 12-49-0007-1 DATE: 01/12/07 DESIGNED: R.J.P. CHECKED: S.W.M. DRAWN: D.T.M.		

FINAL SURVEY
 SURVEYED BY: _____
 PLOTTED BY: _____
 NOTE BOOK NO. _____
 AREA CHECKED: _____

ORIGINAL SURVEY
 SURVEYED BY: _____
 PLOTTED BY: _____
 NOTE BOOK NO. _____
 AREA CHECKED: _____

ROUTE	SECTION	COUNTY	TOT. SHTS.	SHT.
FAS 789	95-00158-00-BR	JEFFERSON	12	12
JEFFERSON COUNTY				

