

ROUTE NO. F.A.S. 690	SECTION 05-00261 -00-BR	COUNTY CLARK	SHEETS 14	SHEET NO. 1
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FED. ROAD EST. NO. ILLINOIS FED. AID PROJECT-
CONTRACT NO. 95480

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PLANS FOR PROPOSED SURFACE TRANSPORTATION PROGRAM – RURAL

INDEX OF SHEETS

1. COVER SHEET
2. SUMMARY OF QUANTITIES AND TYPICAL CROSS SECTIONS
3. PLAN AND PROFILE
- 4.-7. STATION CROSS SECTIONS
- 8.-13. BRIDGE PLANS
14. BORINGS

HIGHWAY STANDARDS:

- 515001-02 NAME PLATE FOR BRIDGES
- 630001-06 STEEL PLATE BEAM GUARDRAIL
- 631026-02 TRAFFIC BARRIER TERMINAL, TYPE 5 AND 5A
- 635006-02 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-01 REFLECTOR MARKER AND MOUNTING DETAILS
- 702001-06 TRAFFIC CONTROL DEVICES
- BLR 21-6 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

UTILITIES

EDGAR ELECTRIC COOPERATIVE ASSOCIATION
PO BOX 190
PARIS, ILLINOIS 61944

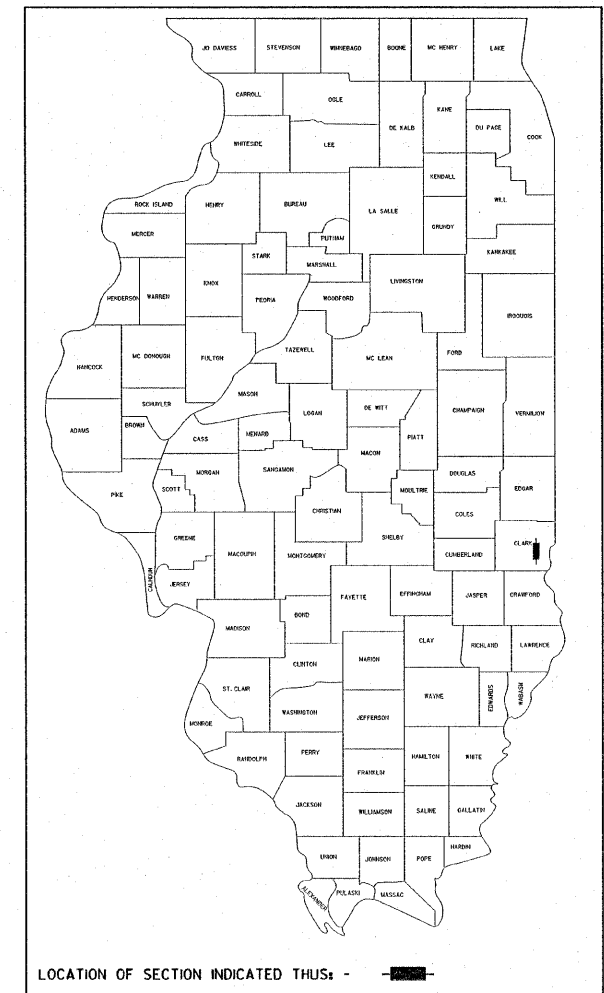
VERIZON
1312 EAST EMPIRE STREET
PO BOX 2955
BLOOMINGTON, ILLINOIS 61702-2955

CLARK-EDGAR RURAL WATER DISTRICT
c/o FRANCIS & ASSOCIATES
330 NORTH CENTRAL AVENUE
PARIS, ILLINOIS 61944

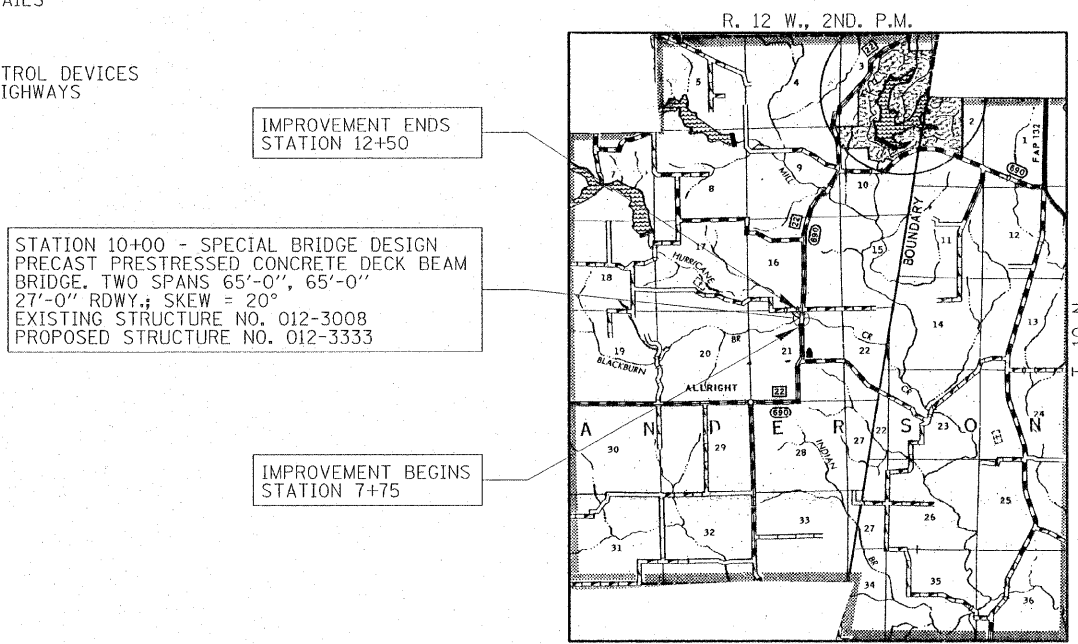
DESIGN FUNCTIONAL CLASSIFICATION:
COLLECTOR (3R DESIGN GUIDELINES)
DESIGN TRAFFIC: 250 ADT
DESIGN SPEED: 40 M.P.H.

SCALES	PLAN	0' = 50'
	PROFILE HORIZ.	0' = 50'
	PROFILE VERT.	0' = 5'
	CROSS SECTIONS	0' = 5'

SECTION 05-00261-00-BR PROJECT RS-690(108) CLARK COUNTY C.H. 22 / F.A.S. 690 / FOX ROAD C-97-133-06

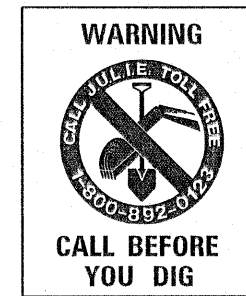


LOCATION OF SECTION INDICATED THUS: - [thick line] -



LAYOUT

APPROXIMATE SCALE: 0 = 1 MILE
NET LENGTH OF SECTION = 475 FEET = 0.089 MILES

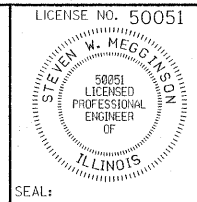


APPROVED	<i>May 15</i> 20 06
	<i>Jack E. Ward</i> COUNTY ENGINEER
PASSED	<i>June 7</i> 20 06
	<i>Maureen Elwood</i> DISTRICT SEVEN ENGINEER OF LOCAL ROADS & STREETS
Releasing For Bid Based on Limited Review	<i>June 7</i> 20 06
	<i>Christie Reed</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION FOUR ENGINEER
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	

DATE: *May 10 2006*

BY: *Steven W. Maggioneri*

LICENSE EXPIRES: NOVEMBER 30, 2007



LICENSE NO. 50051

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

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

ELGIN • SPRINGFIELD • DUQUOIN

PROJECT NUMBER: 12-23-0025-1 DATE: 05/10/06

CONTRACT NO. 95480

SUMMARY OF QUANTITIES			
CODE NO	ITEM	CONSTRUCTION CODE	
		UNIT	QUANTITY
20300100	CHANNEL EXCAVATION	CU YD	370
28101700	RIPRAP, SPECIAL	TON	570
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	27.2
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	3,510
50800105	REINFORCEMENT BARS	POUND	4,200
50900205	STEEL RAILING, TYPE S1	FOOT	266
51201400	FURNISHING STEEL PILES HP10X42	FOOT	240
51202700	DRIVING STEEL PILES	FOOT	140
51203400	TEST PILE STEEL HP10X42	EACH	1
51204315	CONCRETE ENCASEMENT	CU YD	5.2
51500100	NAME PLATES	EACH	1
63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	50
63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4
63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4
63200310	GUARDRAIL REMOVAL	FOOT	304
67100100	MOBILIZATION	L SUM	1
78200400	GUARDRAIL REFLECTORS	EACH	8
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
Z0065000	SETTING PILES IN ROCK	EACH	5

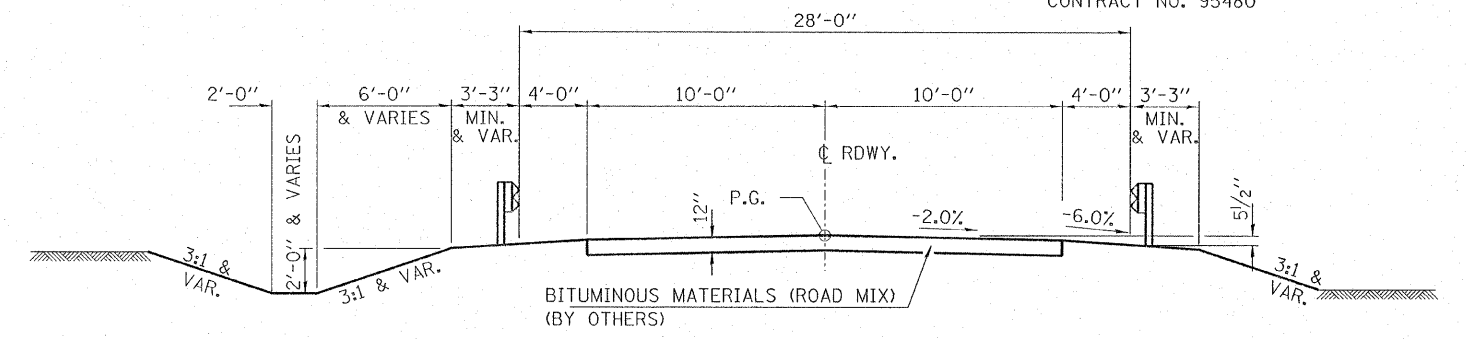
SEE SPECIAL PROVISIONS

GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," ADOPTED 1-1-02 (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS); THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS," ADOPTED 1-1-05; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE "DETAILS" IN THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS.
- ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE DEPARTMENT.
- ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 107.14 OF THE STANDARD SPECIFICATIONS
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT OR PROTECTION IS NECESSARY.
- THE LOCATION ON THE PLANS OF EXISTING DRAINAGE STRUCTURES, TELEPHONE LINES, ELECTRIC LINES AND WATER SERVICE LINES IS APPROXIMATE AND THEIR EXACT LOCATION SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER. THIS WORK SHALL BE THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS AND REFERENCE MARKERS UNTIL THE OWNER, HIS AGENT OR A PROFESSIONAL LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
- THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.
- SEEDING WILL BE DONE BY THE COUNTY IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- ALL TREE REMOVAL WILL BE DONE BY THE COUNTY IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- EARTH AND FURNISHED EXCAVATION WILL BE DONE BY COUNTY**

FOR INFORMATION ONLY - EARTHWORK SCHEDULE						
LOCATION	EARTH EXCAVATION (CU YD)	SHRINKAGE FACTOR	PERCENT USED	AVAILABLE EXCAVATION (CU YD)	EMBANKMENT REQUIRED (CU YD)	EARTHWORK BALANCE (CU YD)
STA. 7+75 TO STA. 9+34.25	80	25%	100%	60	177	-116
STA. 9+34.25 TO STA. 10+65.25	-	25%	100%	-	-	-
STA. 10+65.25 TO STA. 12+00	452	25%	100%	339	480	-144
CHANNEL EXCAVATION ENTRANCES	370	25%	70%	194	-	194
TOTAL	533			594	657	-63

* AVAILABLE EXCAVATION = EXC. x (1-SHRINKAGE FACTOR) x % USED (FURN. EXC.)



SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

ROAD CLASSIFICATION - COLLECTOR ADT 0-250
CURRENT ADT 175
DESIGN SPEED: 40 M.P.H.

TYPICAL CROSS SECTION - (BY OTHERS)
STA. 7+75 TO 12+50

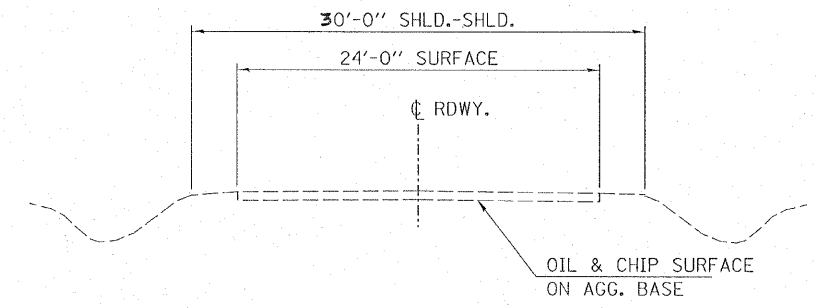
TRANSITION FROM THE PROPOSED ROADWAY TO THE EXISTING ROADWAY IS TO BE CONSTRUCTED FROM STA. 7+75 TO 8+25 AND STA. 12+00 TO 12+50. SEE SHEET 8 FOR TRANSITION AT BRIDGE. (TO BE CONSTRUCTED BY CLARK COUNTY)

GUARDRAIL REMOVAL	
LOCATION	FOOT
16' RT. STA. 8+66.1 TO 11' RT. STA. 9+42.0	76
18' LT. STA. 8+78.1 TO 11' LT. STA. 9+53.7	76
11' RT. STA. 10+32.4 TO 18' RT. STA. 11+08.8	76
11' LT. STA. 10+44.2 TO 16' LT. STA. 11+20.4	76
TOTAL	304

TRAFFIC BARRIER TERMINAL, TYPE 5A	
LOCATION	EACH
RT. STA. 9+15.25 TO STA. 9+28.50	1
LT. STA. 9+25.08 TO STA. 9+38.33	1
RT. STA. 10+61.67 TO STA. 10+74.92	1
LT. STA. 10+71.50 TO STA. 10+84.75	1
TOTAL	4

STEEL PLATE BEAM GUARD RAIL, TYPE A	
LOCATION	FOOT
RT. STA. 8+90.25 TO STA. 9+15.25	25
LT. STA. 10+84.75 TO STA. 11+09.75	25
TOTAL	50

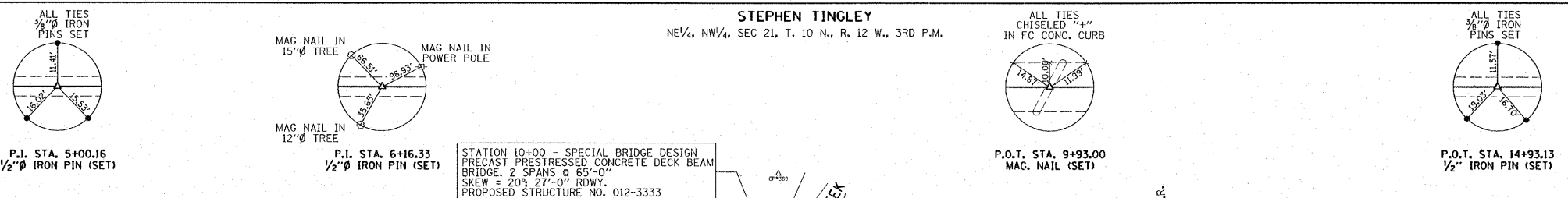
TRAFFIC BARRIER TERMINAL, TY 1, SPL (TANG)	
LOCATION	EACH
RT. STA. 8+40.25 TO STA. 8+90.25	1
LT. STA. 8+75.08 TO STA. 9+25.08	1
RT. STA. 10+74.92 TO STA. 11+24.92	1
LT. STA. 11+09.75 TO STA. 11+59.75	1
TOTAL	4



EXISTING CROSS SECTION

<p>HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS</p> <p>3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400</p>	<p>SUMMARY OF QUANTITIES AND TYPICAL SECTIONS SECTION 05-00261-00-BR C.H. 22 / F.A.S. 690 / FOX ROAD CLARK COUNTY</p>		
	ELGIN	SPRINGFIELD	DUQUOIN
	PROJECT NUMBER: 12-23-0025-1	DATE: 05/10/06	
	DESIGNED: J.W.F.	CHECKED: S.W.M.	DRAWN: D.T.M.

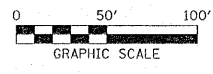
FAS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
690	05-00261-00-BR	CLARK	14	3
STA. 5+00.16		TO STA. 14+93.13		
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO. 95480		



STATION 10+00 - SPECIAL BRIDGE DESIGN
 PRECAST PRESTRESSED CONCRETE DECK BEAM
 BRIDGE, 2 SPANS @ 65'-0"
 SKEW = 20° 27'-0" ROWY.
 PROPOSED STRUCTURE NO. 012-3333

CHANNEL EXCAVATION
 THE CHANNEL SHALL BE EXCAVATED AS SHOWN WITH 2:1 SIDE SLOPES WITHIN THE LIMITS OF THE PROPOSED BRIDGE, THEN TAPER TO THE EXISTING CHANNEL AT THE R.O.W. LINES. SUITABLE EXCAVATED MATERIAL SHALL BE DEPOSITED ON THE JOB SITE FOR USE BY THE COUNTY IN THE EMBANKMENT. UNSUITABLE MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR OFF THE JOB SITE.

EXISTING STRUCTURE NO. 012-3008
 STATION 9+93 - TWO SPAN STEEL I-BEAM BRIDGE WITH A CONCRETE DECK ON CLOSED CONCRETE ABUTS. AND A CONCRETE PIER.
 83.0' FC-FC, ABUTS: 22.0' O.-O. DECK
 REMOVAL OF EXISTING STRUCTURES = 1 EACH



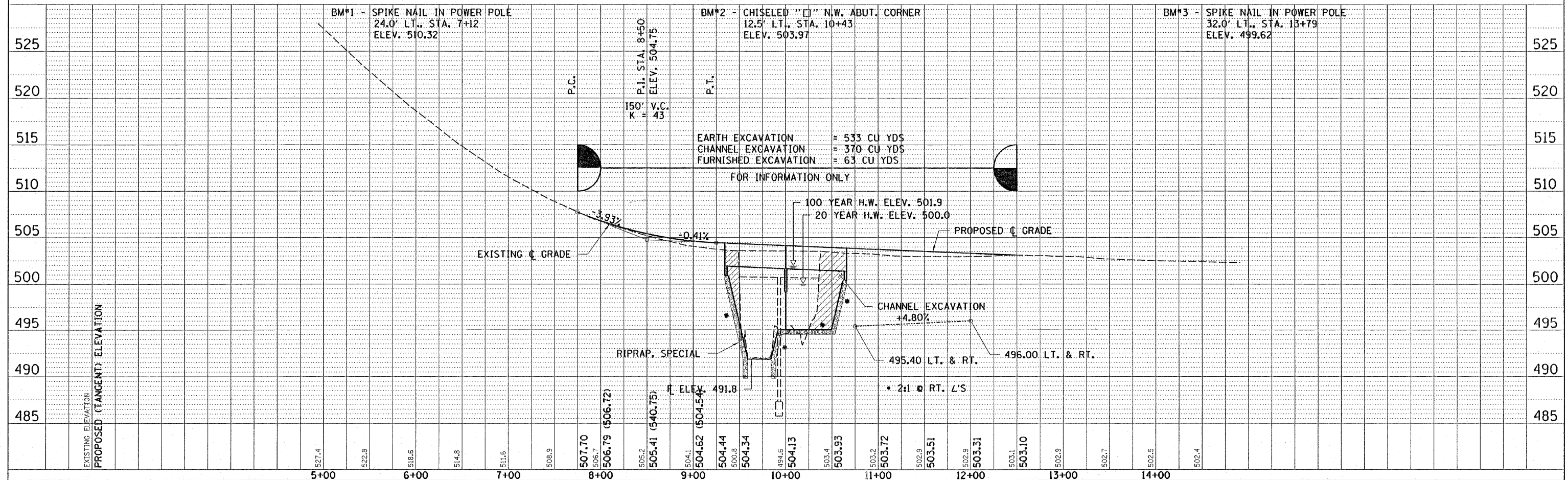
STEPHEN TINGLEY
 N/2, NE/4, SEC 21, T. 10 N., R. 12 W., 3RD P.M.

PLAN

DATE	BY
REVISED	BY
ALIGNED	BY
CHECKED	BY
NO. 105	DATE
FILE NAME	

PROFILE

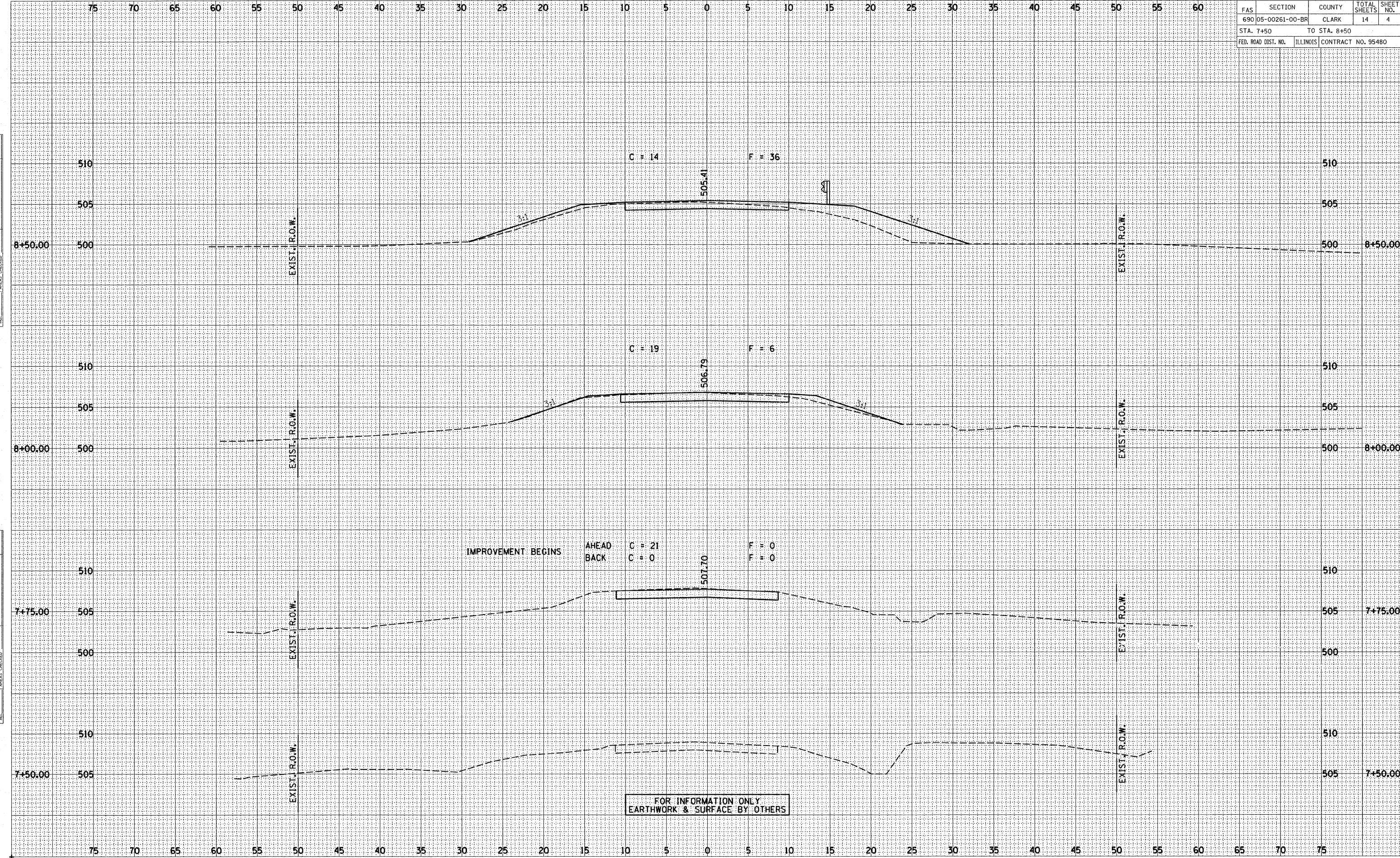
DATE	BY
REVISED	BY
GRADES CHECKED	BY
STRUCTURE NOTATIONS CHECKED	BY
NO. 105	DATE



BY: _____ DATE: _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 NO. _____
 AREAS CHECKED _____

BY: _____ DATE: _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 NO. _____
 AREAS CHECKED _____

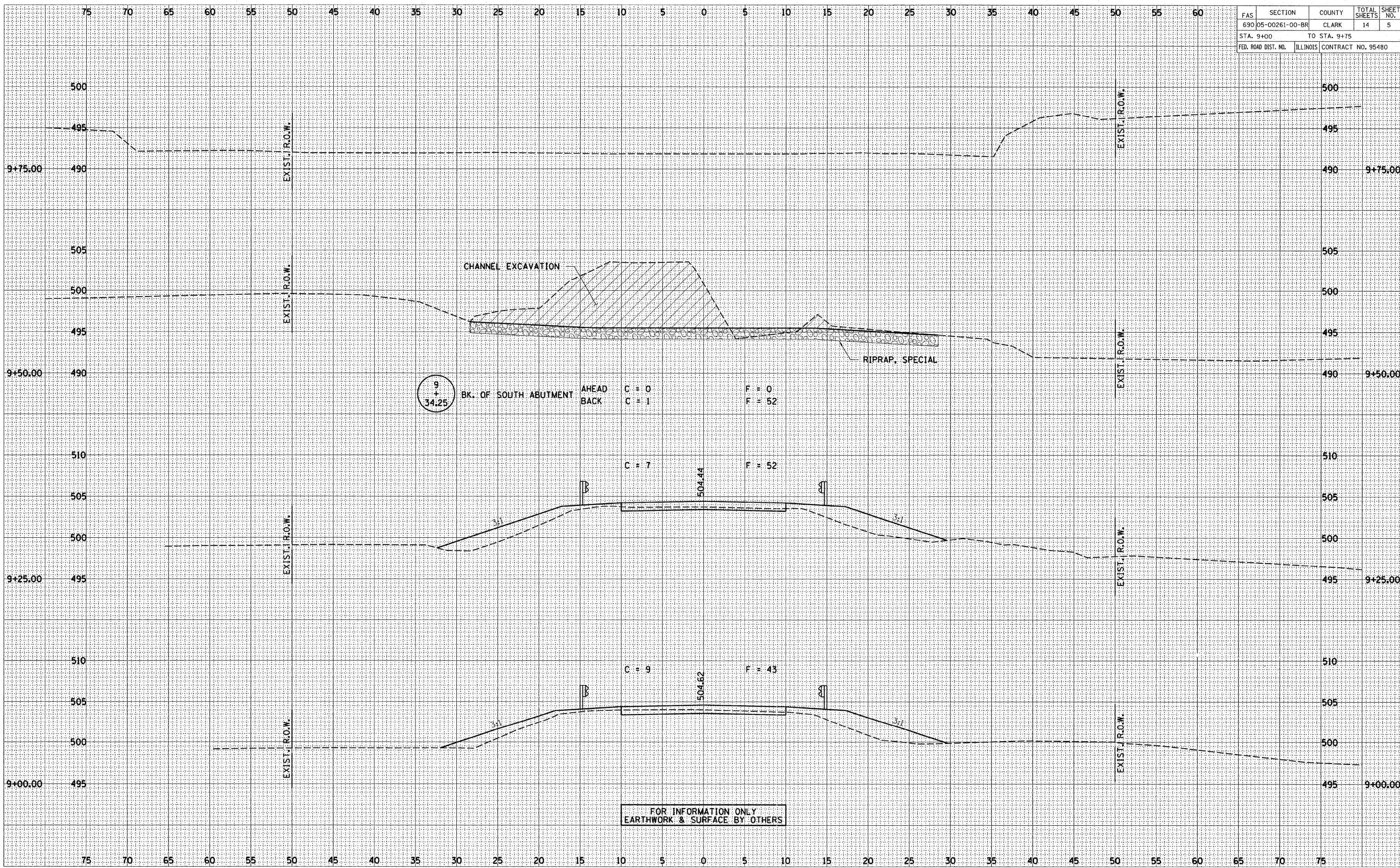
FAS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
690	05-00261-00-BR	CLARK	14	4
STA. 7+50		TO STA. 8+50		
FED. ROAD DIST. NO.		ILLINOIS		CONTRACT NO. 95480



FAS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
690	05-00261-00-BR	CLARK	14	5
STA. 9+00		TO STA. 9+75		
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO. 95480		

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____

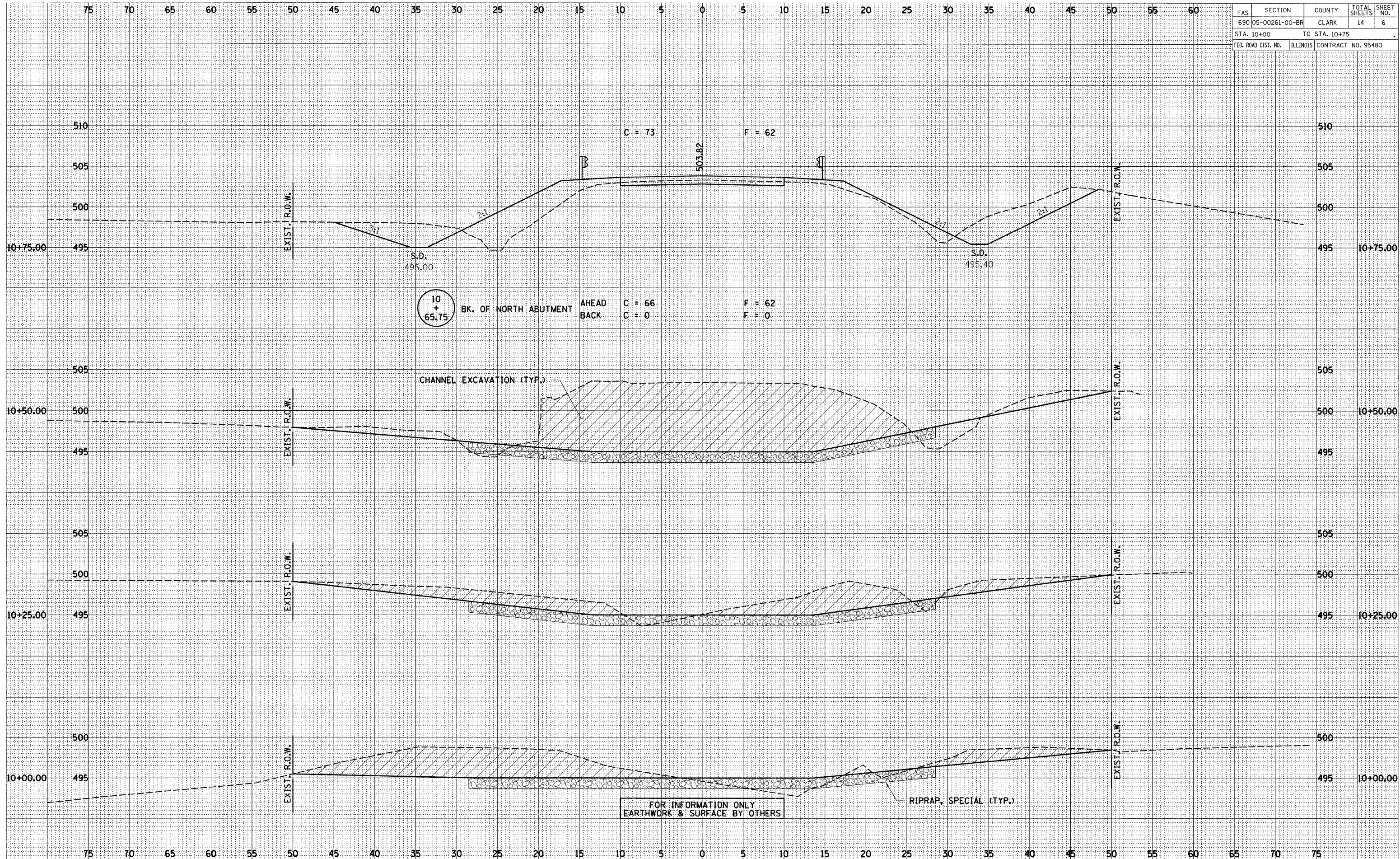


FOR INFORMATION ONLY
 EARTHWORK & SURFACE BY OTHERS

FAS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
690	05-00261-00-BR	CLARK	14	6
STA. 10+00		TO STA. 10+75		
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 95480		

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

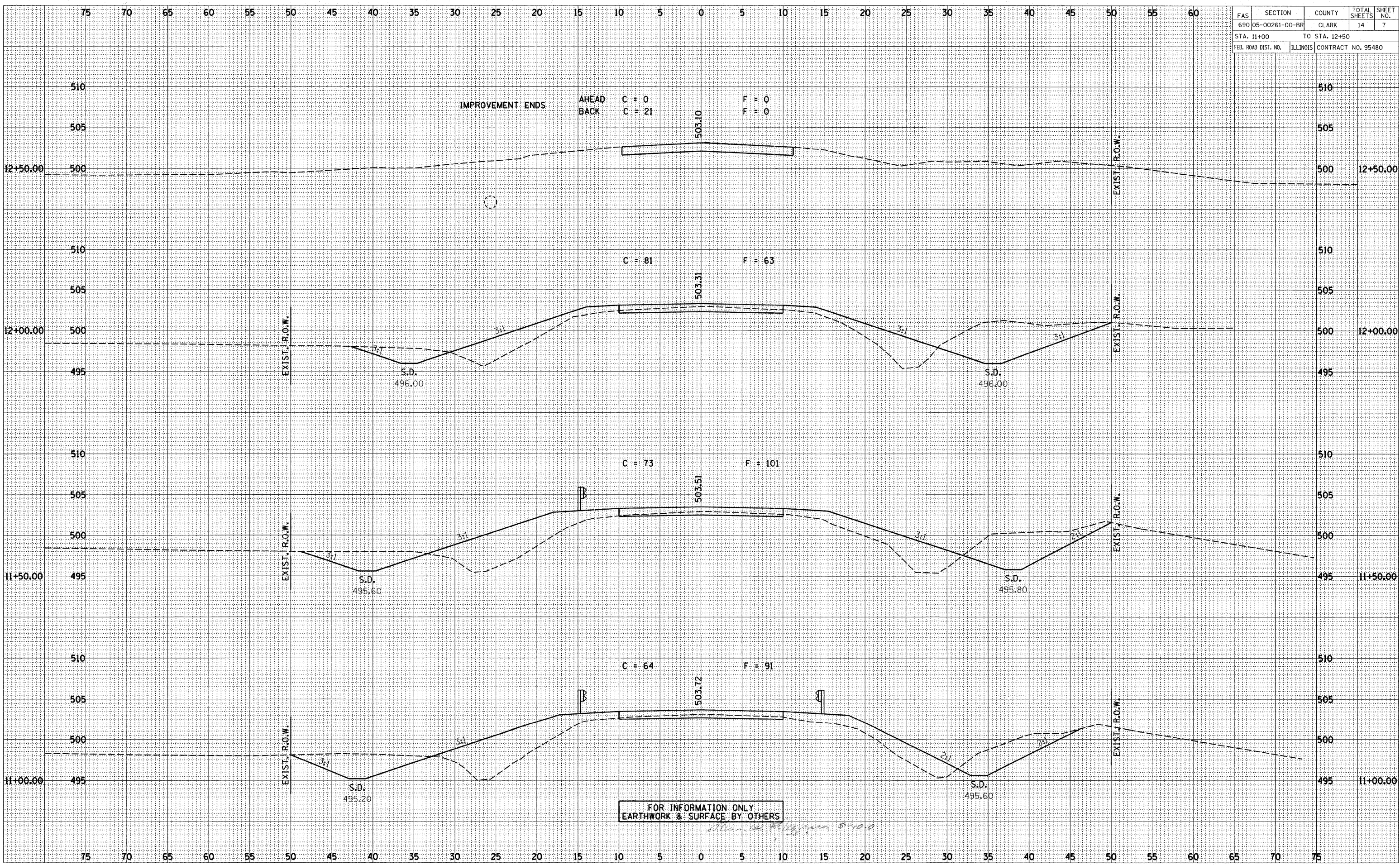
BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



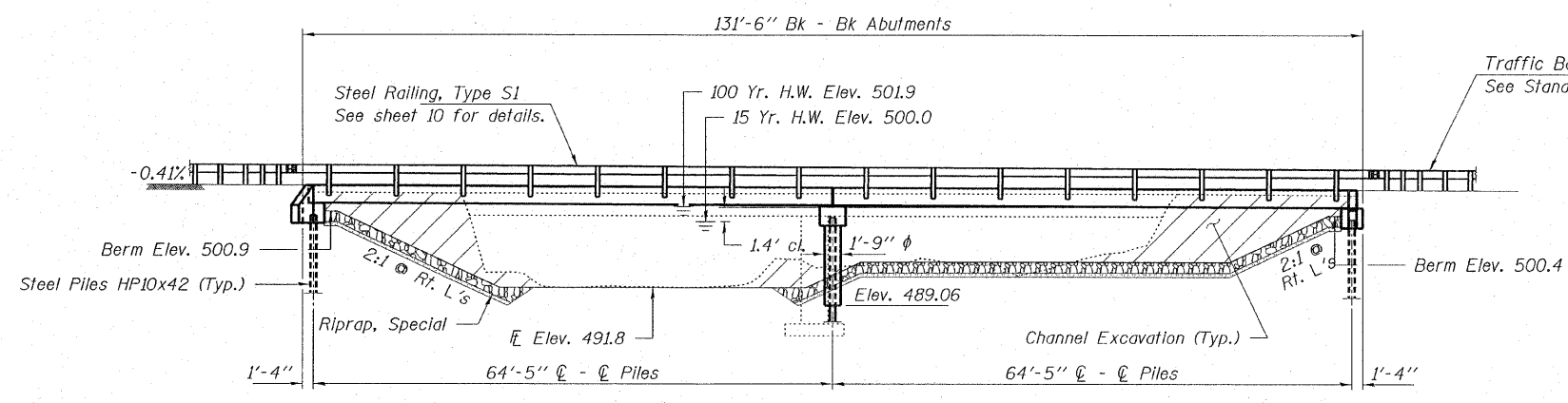
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690	05-00261-00-BR	CLARK	14	7
STA. 11+00		TO STA. 12+50		
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 95480		

BY	DATE

BY	DATE



FOR INFORMATION ONLY
EARTHWORK & SURFACE BY OTHERS



ELEVATION

GENERAL NOTES

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

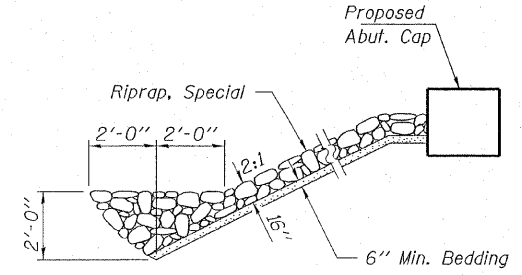
The Contractor shall drive one steel test pile in a permanent location at the North Abutment, as directed by the Engineer before ordering the remainder of the piles.

Excavation required to construct the Abutments shall be included in 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. See sheet 14 for Borings.

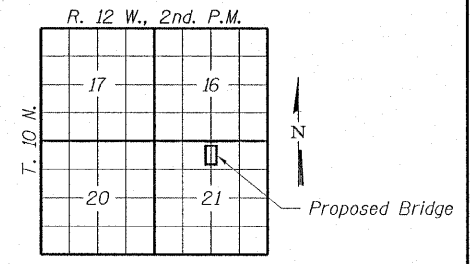
HURRICANE CREEK
 BUILT 200_ BY
 CLARK COUNTY
 SEC. 05-00261-00-BR
 F.A. PROJ. RS-690(108)
 STR. NO. 012-3333
 LOADING HS 20

NAME PLATE
 See Std. 515001

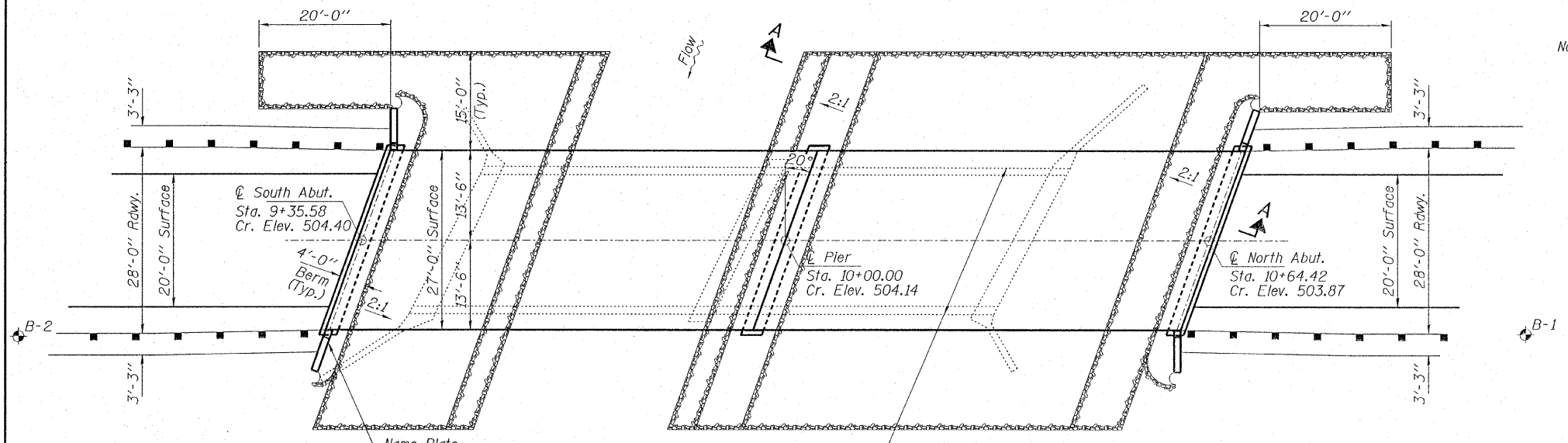
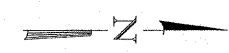


SECTION A-A

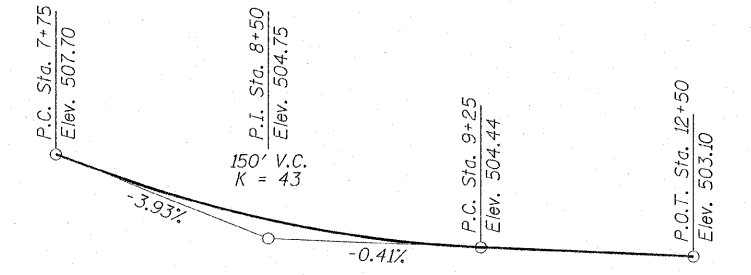
Note: See Special Provisions for Riprap, Special.



LOCATION SKETCH



PLAN



PROFILE GRADE

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Riprap, Special	Ton			570
Concrete Structures	Cu. Yd.		27.2	27.2
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	3,510		3,510
Reinforcement Bars	Pound		4,200	4,200
Steel Railing, Type S1	Foot	266		266
Furnishing Steel Piles HP10x42	Foot		240	240
Driving Steel Piles	Foot		140	140
Test Pile Steel HP10x42	Each		1	1
Concrete Encasement	Cu. Yd.		5.2	5.2
Name Plates	Each		1	1
Setting Piles in Rock	Each		5	5

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf.)

PRECAST PRESTRESSED UNITS

$f'_c = 5,000$ psi
 $f'_{ci} = 4,000$ psi
 $f'_s = 270,000$ psi ($\frac{1}{2}$ " ϕ low lax. strands)
 $f'_{sl} = 201,960$ psi ($\frac{1}{2}$ " ϕ low lax. strands)
 $f_y = 60,000$ psi (Reinf.)

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

SEISMIC DATA

Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.07g
 Site Coefficient (S) = 1.5

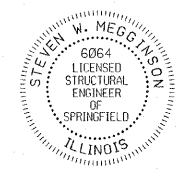
WATERWAY INFORMATION

Flood		Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Natural H.W.E.	Head - Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
Design		20	1,747	370	520	500.0	0.4	0.7	500.4	500.7
Base		100	2,860	410	660	501.9	2.0	1.5	503.9	503.4
Overtopping										
Max. Calc.		500	3,783	410	660	503.4	1.5	0.5	504.9	503.9

Drainage Area = 16.7 Sq. Mi. Low Grade Elev. 502.3 @ Sta. 15+00

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. Megginson 5-10-06
 ILLINOIS STRUCTURAL NO. 6064



Expires 11-30-06

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

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

ELGIN • SPRINGFIELD • DUQUOIN

PROJECT NUMBER: 12-23-0025-1 DATE: 05/10/06
 DESIGNED: J.W.F. CHECKED: S.W.M. DRAWN: D.T.M.

GENERAL PLAN AND ELEVATION

SECTION 05-00261-00-BR

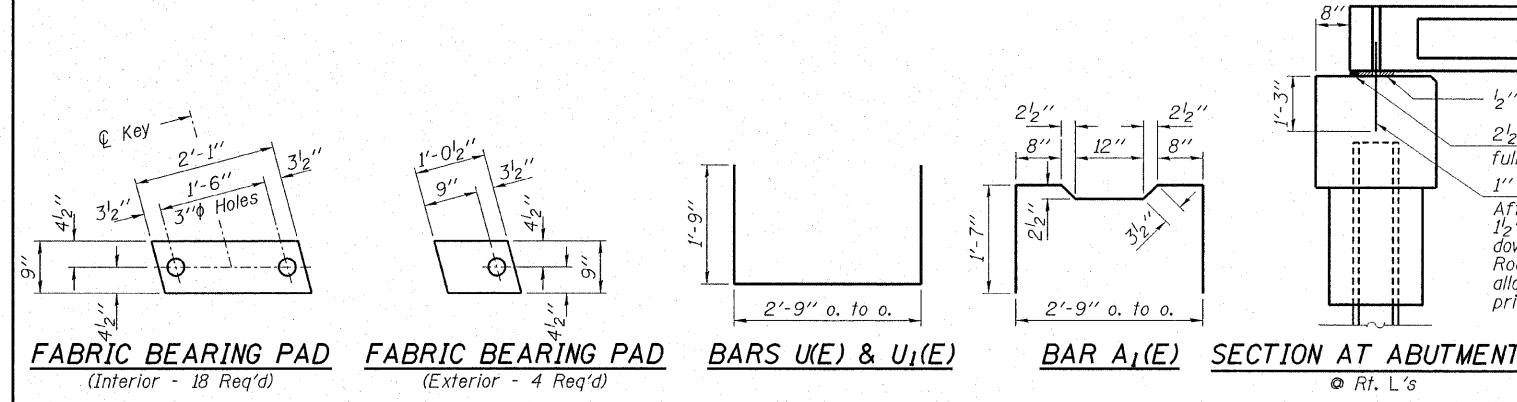
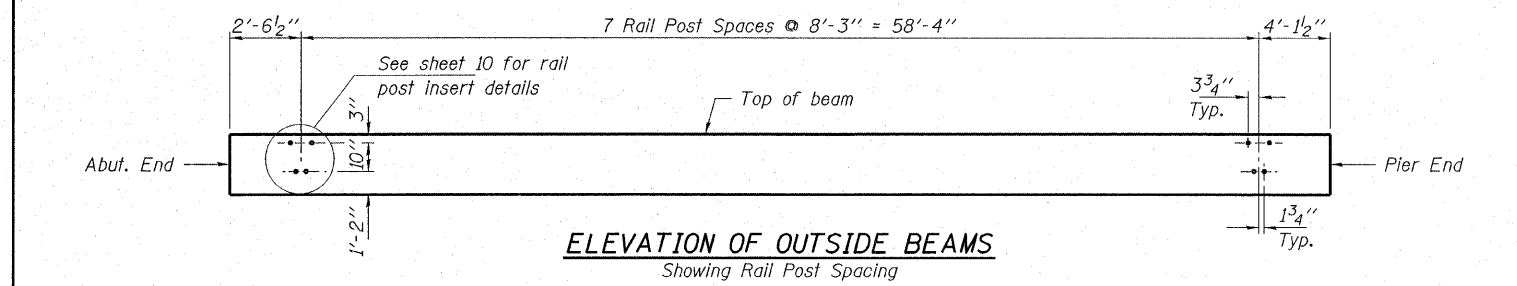
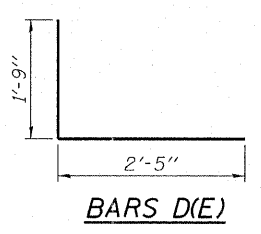
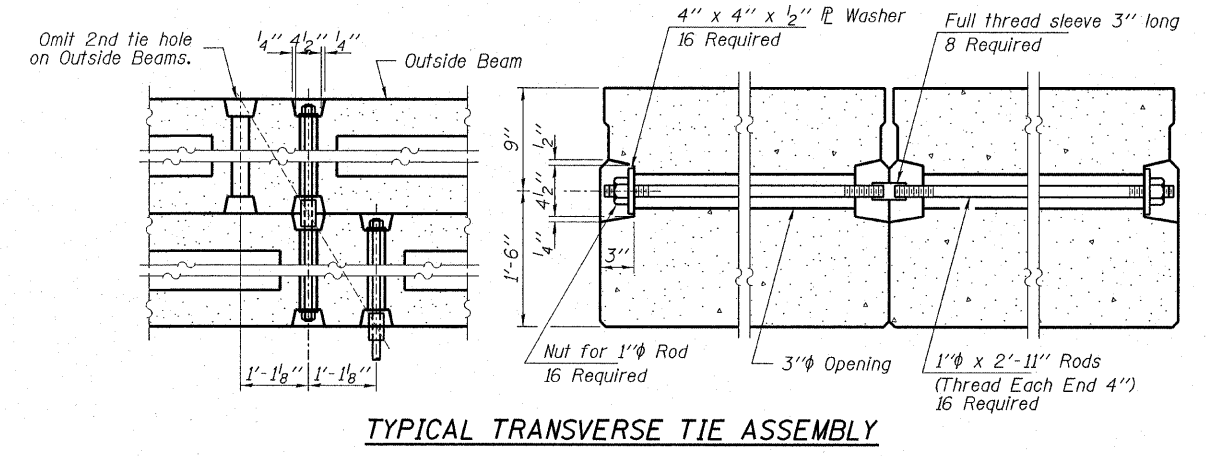
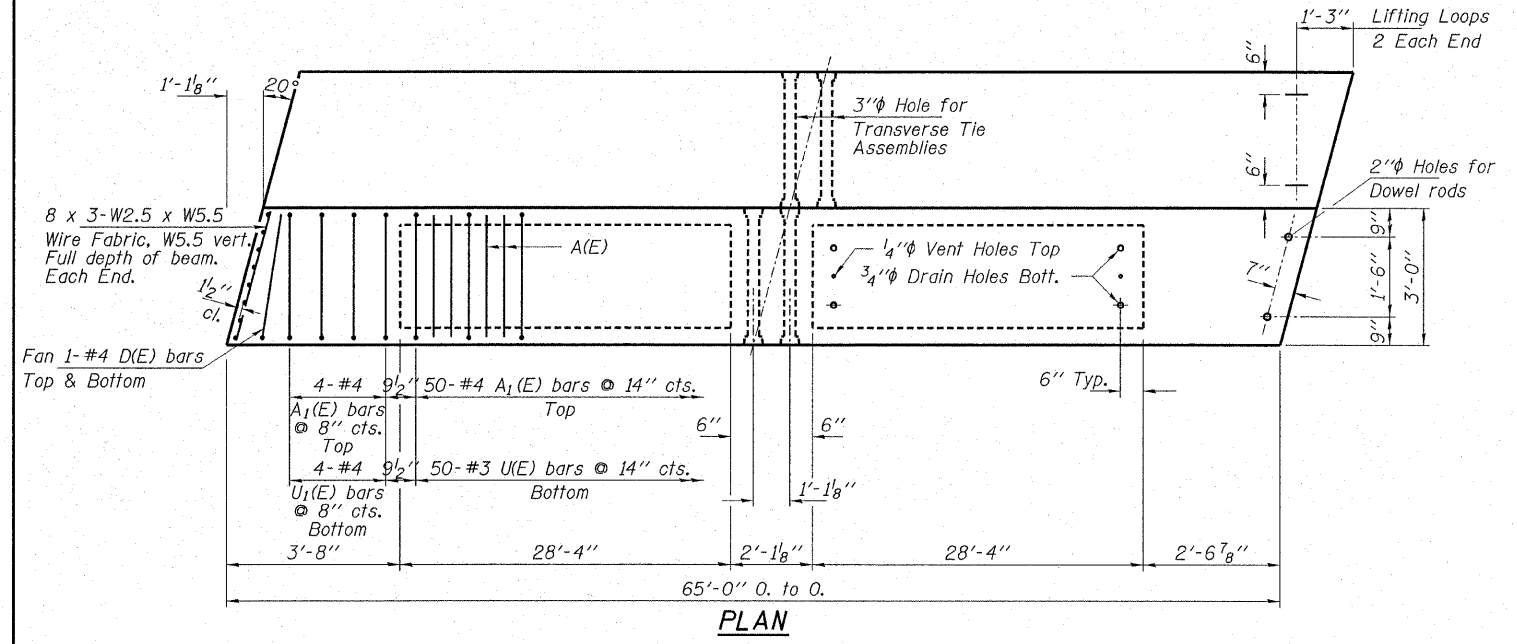
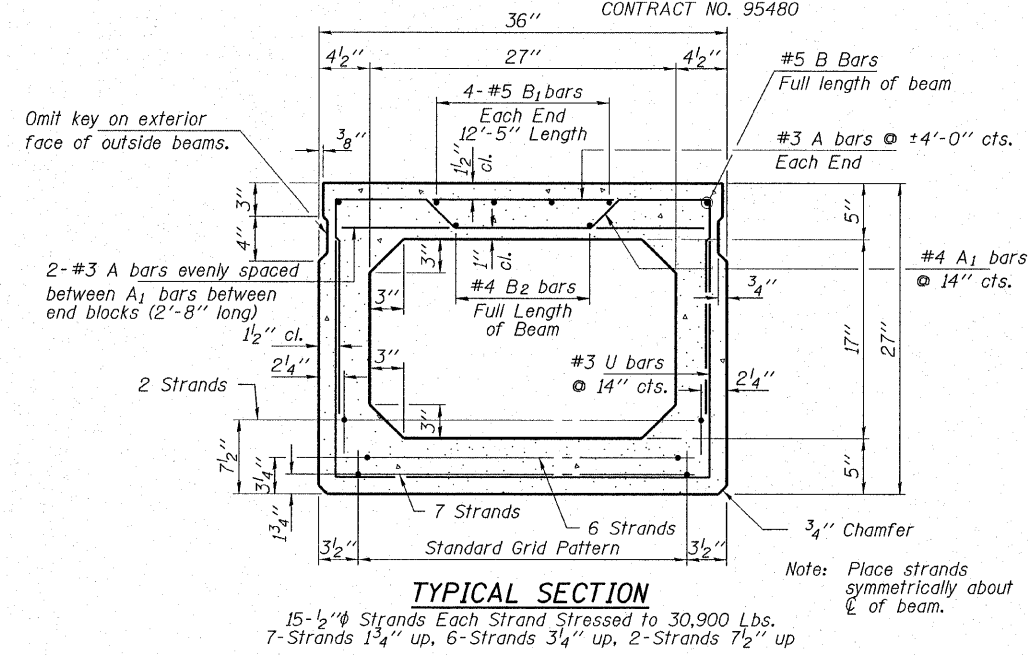
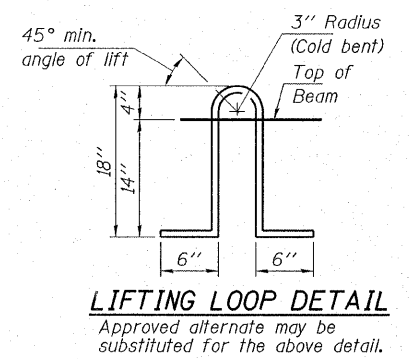
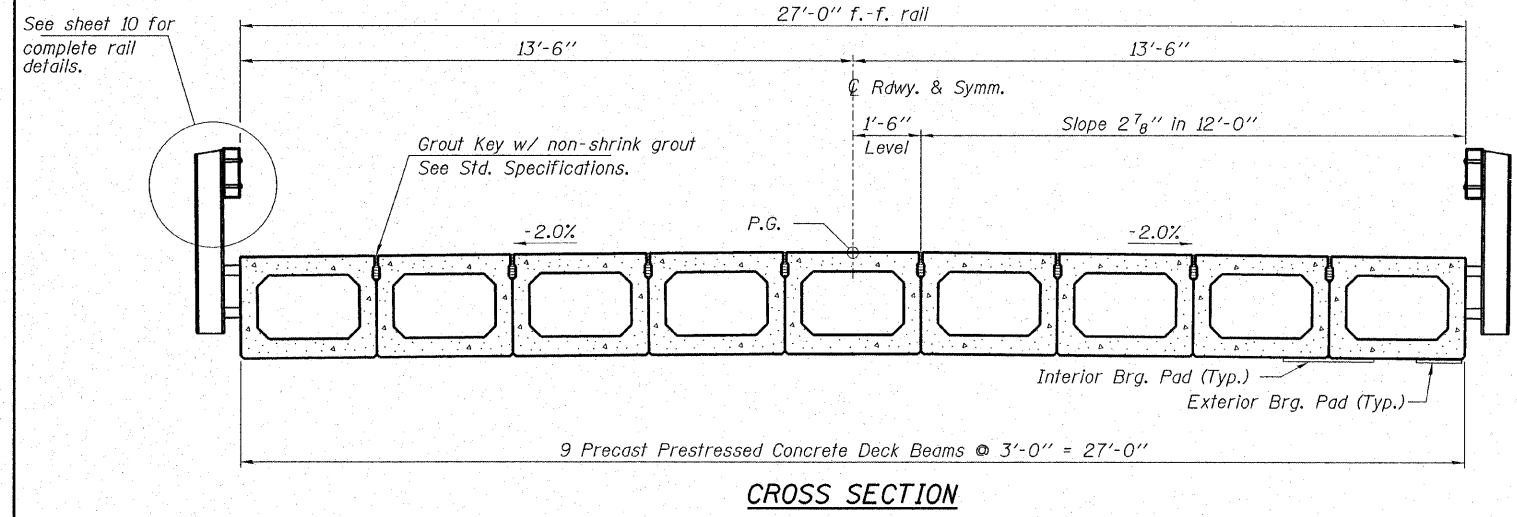
F.A.S. 690 / C.H. 22 / FOX ROAD

CLARK COUNTY

STRUCTURE NO. 012-3333 / STATION 10+00

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET
F.A.S. 690	05-00261-00-BR	CLARK	14	9
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		

CONTRACT NO. 95480



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 2-1/2"φ-270 ksi strands, as shown.

The 1"φ 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 AASHTO M-31 or M-322 Grade 60. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 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.

Require Release Strength, f'cl, shall be 4,000 p.s.i.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	3,510

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

ELGIN • SPRINGFIELD • DUQUOIN

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

PROJECT NUMBER: 12-23-0025-1 DATE: 05/10/06
DESIGNED: J.W.F. CHECKED: S.W.M. DRAWN: D.T.M.

SUPERSTRUCTURE

SECTION 05-00261-00-BR

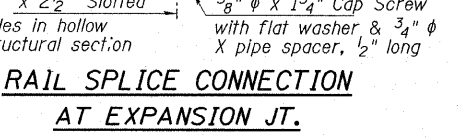
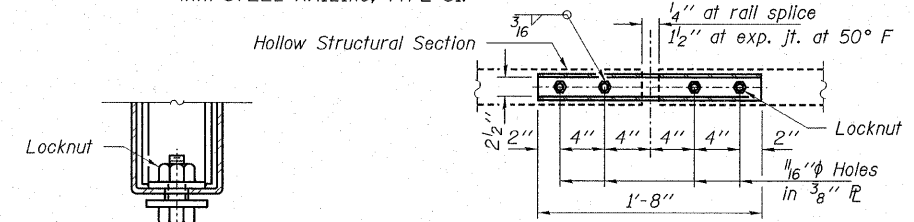
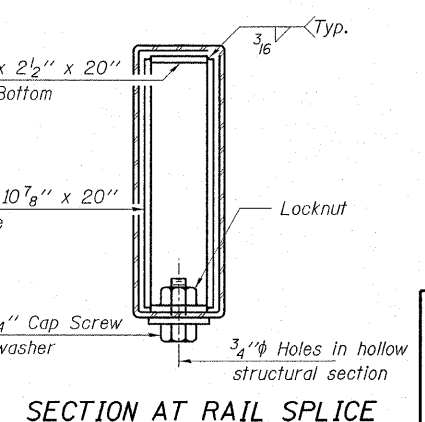
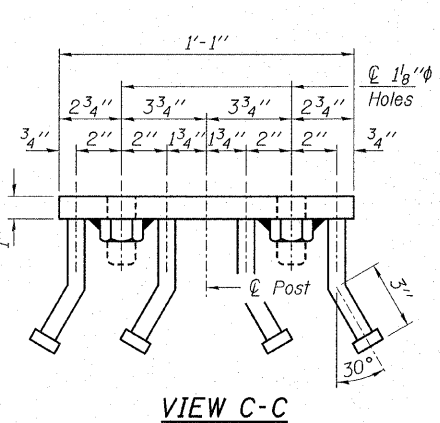
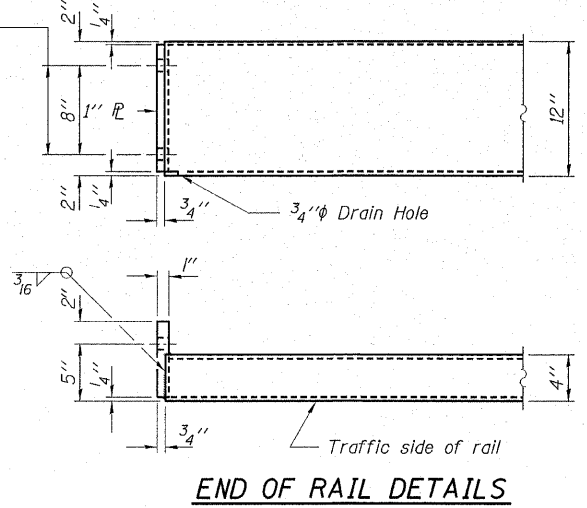
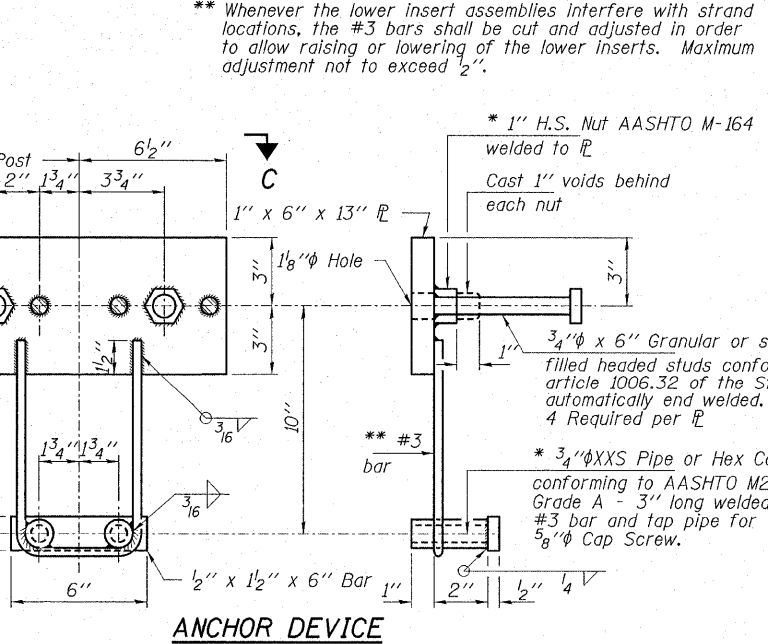
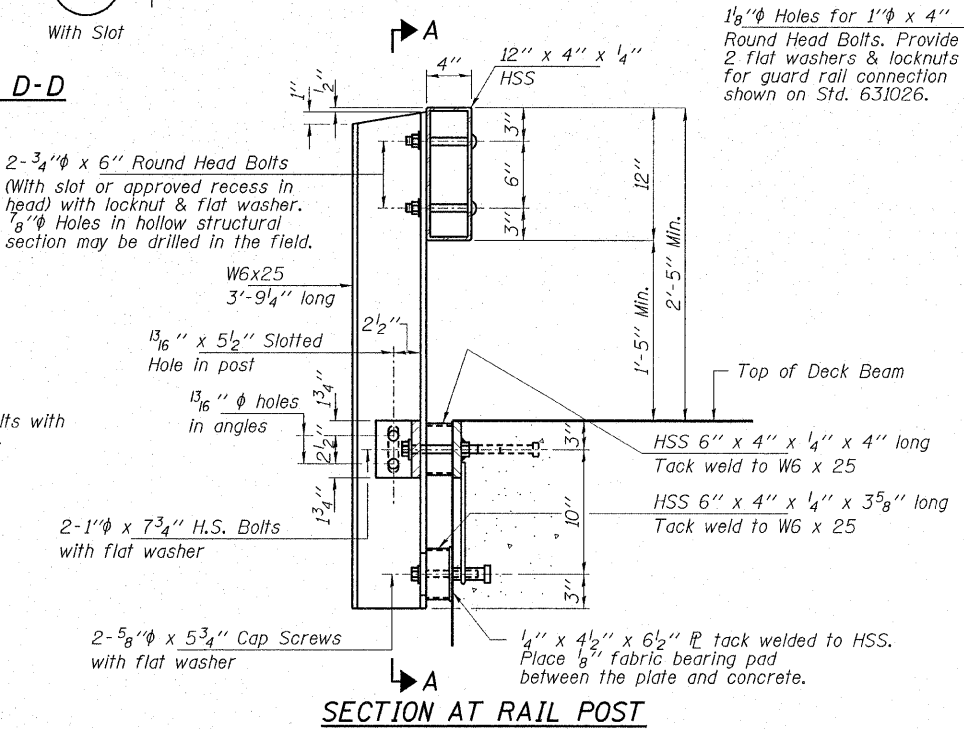
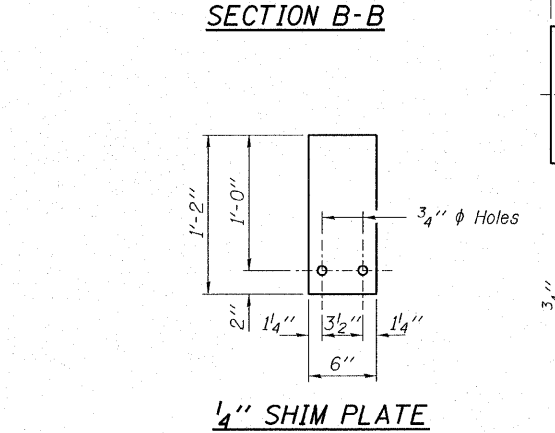
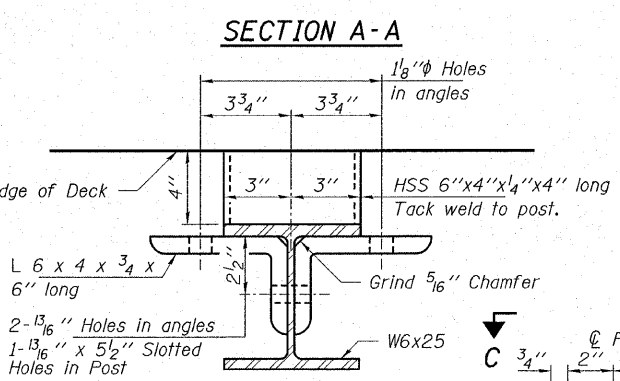
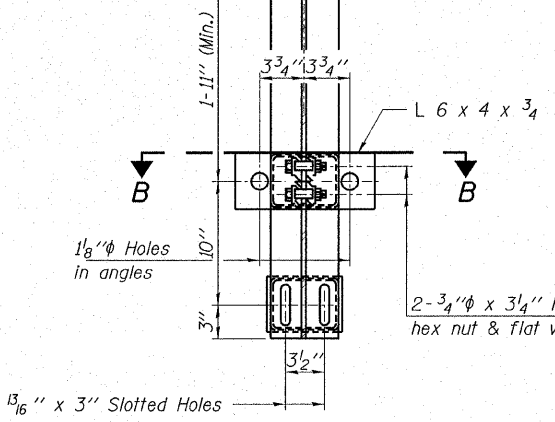
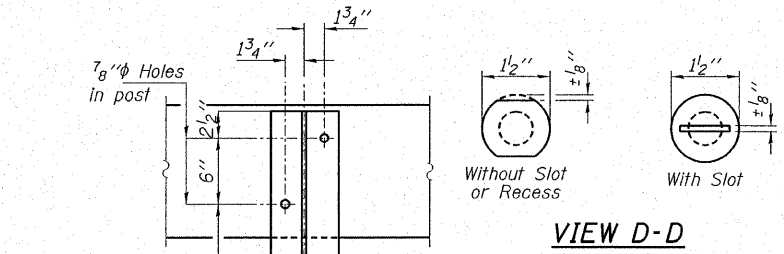
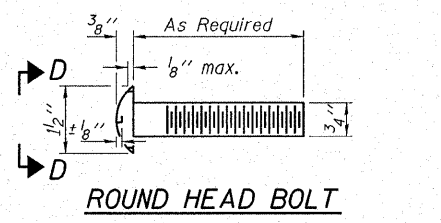
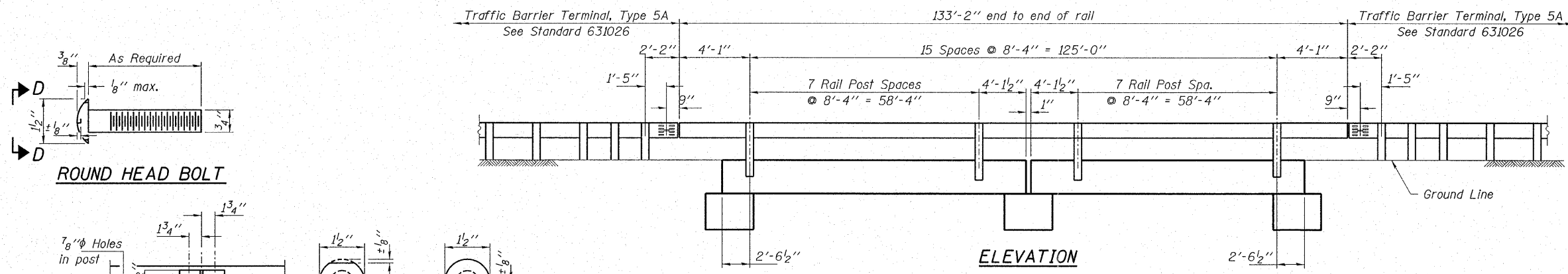
F.A.S. 690 / C.H. 22 / FOX ROAD

CLARK COUNTY

STRUCTURE NO. 012-3333 / STATION 10+00

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
F.A.S. 690	05-00261-00-BR	CLARK	14	10
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		

CONTRACT NO. 95480



BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S1	Foot	266

RAILING DETAILS

SECTION 05-00261-00-BR

F.A.S. 690 / C.H. 22 / FOX ROAD

CLARK COUNTY

STRUCTURE NO. 012-3333 / STATION 10+00

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CIVIL & STRUCTURAL ENGINEERS

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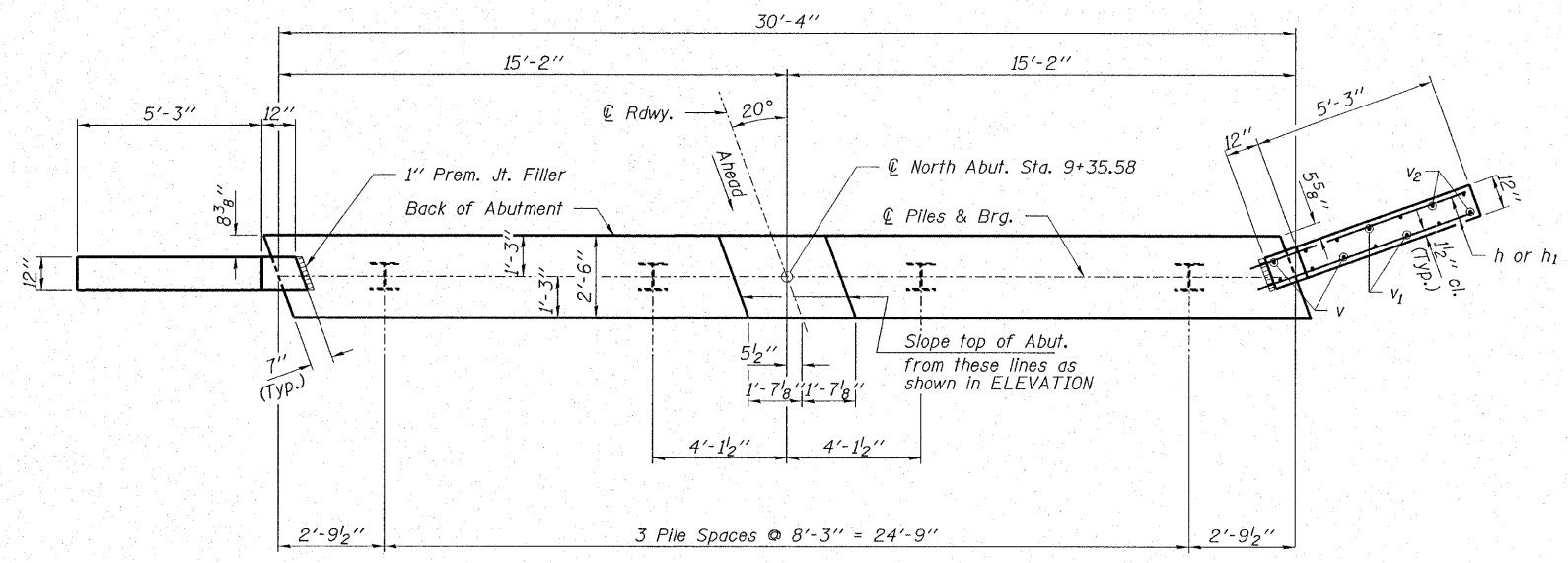
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

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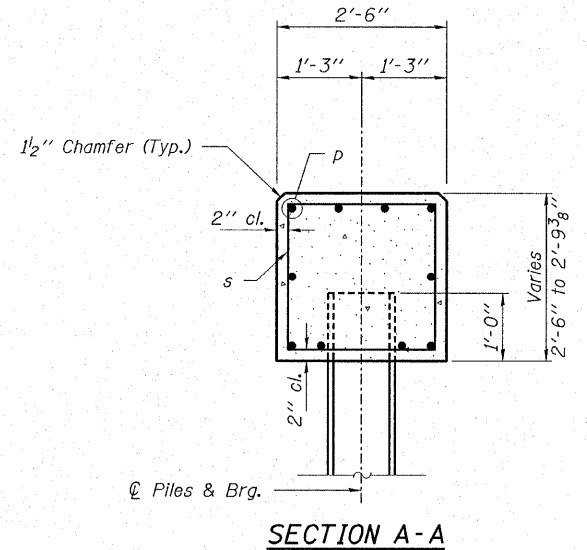
PROJECT NUMBER: 12-23-0025-1 DATE: 05/10/06
DESIGNED: J.W.F. CHECKED: S.W.M. DRAWN: D.T.M.

ROUTE NO. F.A.S. 690	SECTION 05-00261 -00-BR	COUNTY CLARK	TOTAL SHEETS 14	SHEET NO. 11
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

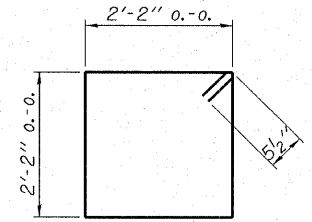
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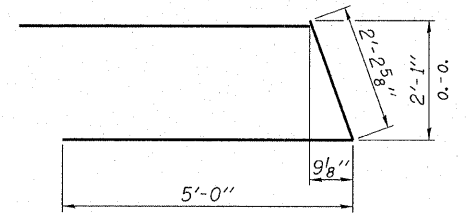
PLAN



SECTION A-A

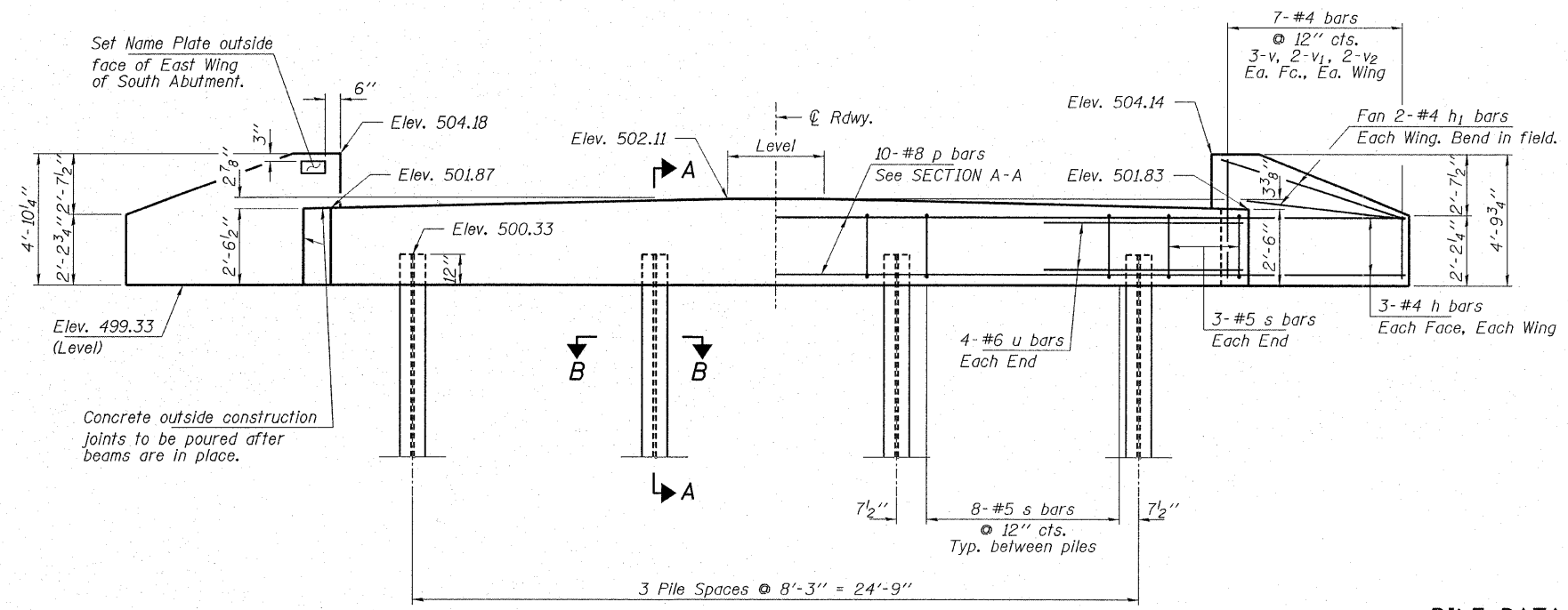


BAR s



BAR u

Note: Extend h bars into abut. cap.



ELEVATION
(Looking South)

PILE DATA

Type.....Steel HPI0x42
 No. Req'd.....4
 Capacity.....Drive To Refusal
 Est. Length.....20 Feet/Pile

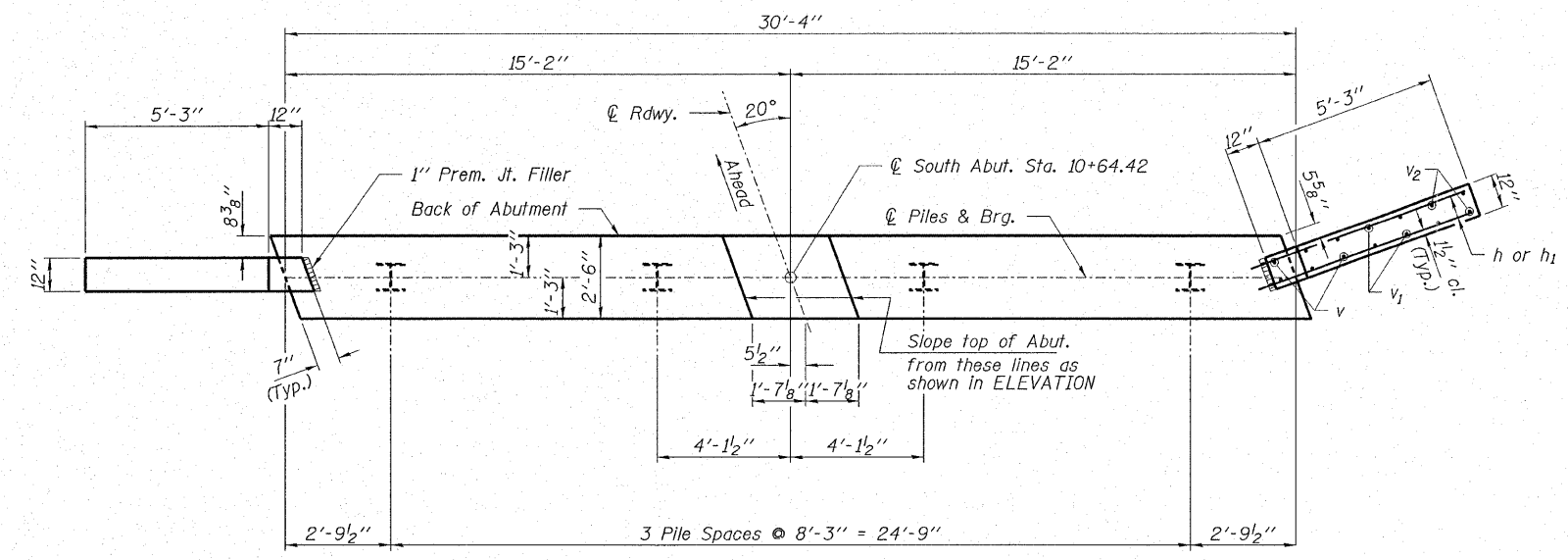
BILL OF MATERIAL - S. ABUT.

BAR	NO.	SIZE	LENGTH	SHAPE
h	12	#4	7'-0"	—
h ₁	8	#4	6'-0"	—
p	10	#8	30'-0"	—
s	30	#5	9'-7"	□
u	8	#6	12'-3"	U
v	12	#4	4'-0"	—
v ₁	8	#4	3'-0"	—
v ₂	8	#4	2'-0"	—
Concrete Structures		Cu. Yd.	9.1	
Reinforcement Bars		Pound	1,400	
Furnishing Steel Piles HPI0x42		Foot	80	
Driving Steel Piles		Foot	80	
Name Plates		Each	1	

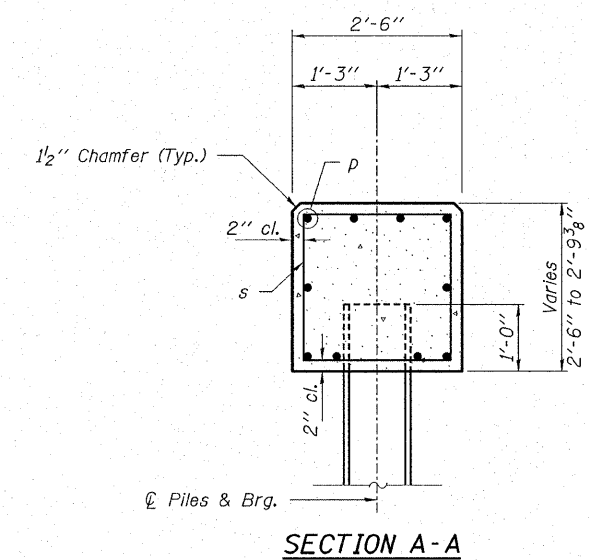
HLR
 HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 (217) 546-3400
 ELGIN • SPRINGFIELD • DUQUOIN
 PROJECT NUMBER: 12-23-0025-1 DATE: 05/10/06
 DESIGNED: J.W.F. CHECKED: S.W.M. DRAWN: D.T.M.

SOUTH ABUTMENT
 SECTION 05-00261-00-BR
 F.A.S. 690 / C.H. 22 / FOX ROAD
 CLARK COUNTY
 STRUCTURE NO. 012-3333 / STATION 10+00

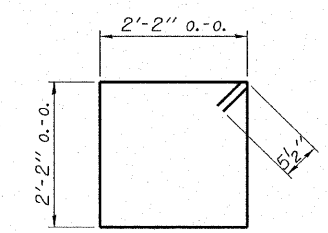
CONTRACT NO. 95480



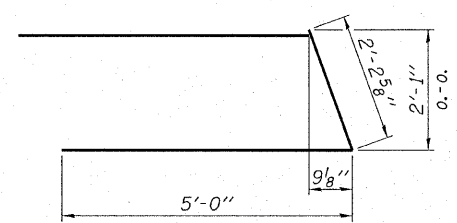
PLAN



SECTION A-A

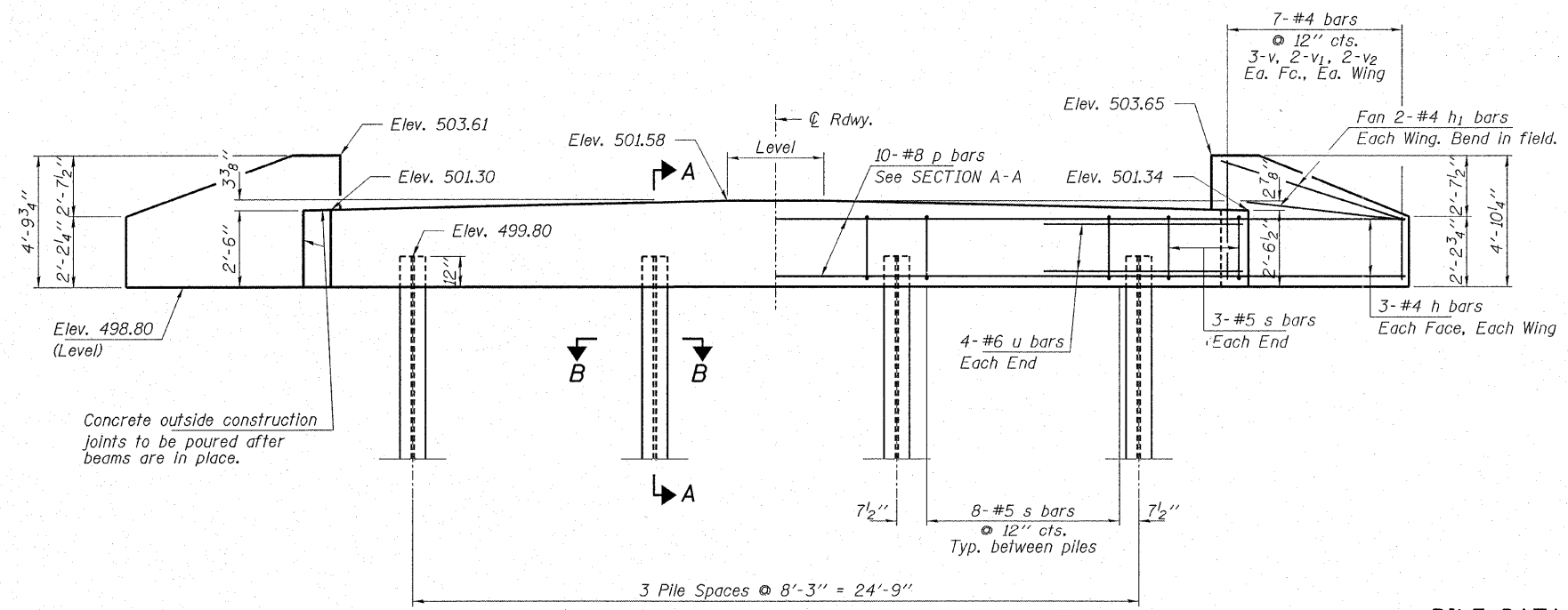


BAR s



BAR u

Note: Extend h bars into abut. cap.



ELEVATION
(Looking North)

PILE DATA

Type.....Steel HP10x42
 No. Req'd.....4*
 Capacity.....Drive To Refusal
 Est. Length.....20 Feet/Pile

* Includes one steel test pile to be driven in a permanent location at the North Abutment.

BILL OF MATERIAL - N. ABUT.

BAR	NO.	SIZE	LENGTH	SHAPE
h	12	#4	7'-0"	—
h1	8	#4	6'-0"	—
p	10	#8	30'-0"	—
s	30	#5	9'-7"	□
u	8	#6	12'-3"	U
v	12	#4	4'-0"	—
v1	8	#4	3'-0"	—
v2	8	#4	2'-0"	—
Concrete Structures		Cu. Yd.	9.1	
Reinforcement Bars		Pound	1,400	
Furnishing Steel Piles HP10x42		Foot	60	
Driving Steel Piles		Foot	60	
Test Pile Steel HP10x42		Each	1	

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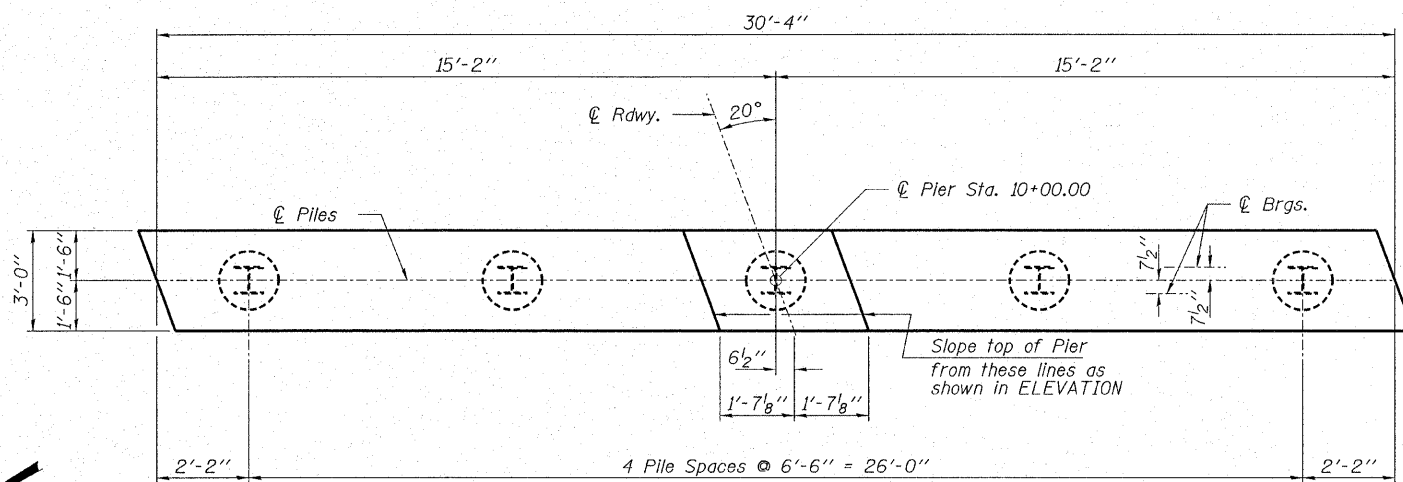
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PROJECT NUMBER: 12-23-0025-1 DATE: 05/10/06
 DESIGNED: J.W.F. CHECKED: S.W.M. DRAWN: D.T.M.

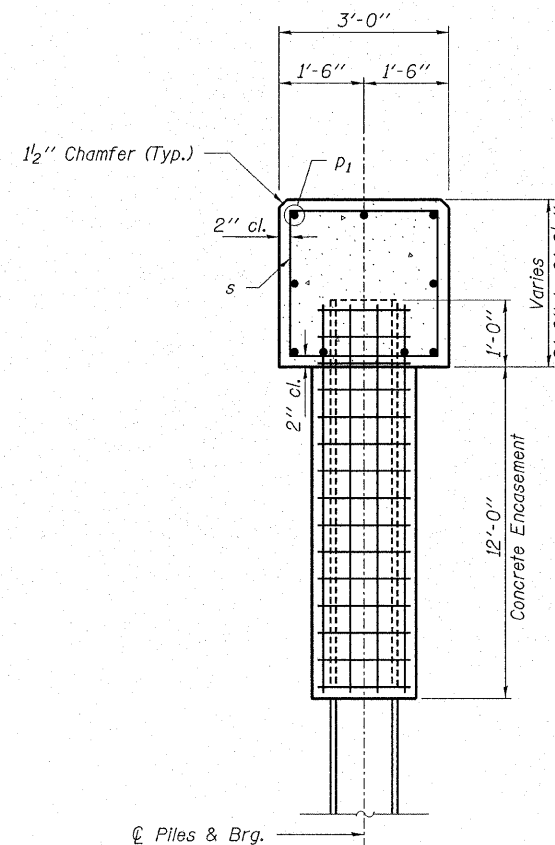
NORTH ABUTMENT
 SECTION 05-00261-00-BR
 F.A.S. 690 / C.H. 22 / FOX ROAD
 CLARK COUNTY
 STRUCTURE NO. 012-3333 / STATION 10+00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 690	05-00261-00-BR	CLARK	14	13
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

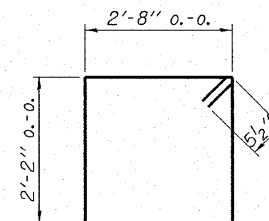
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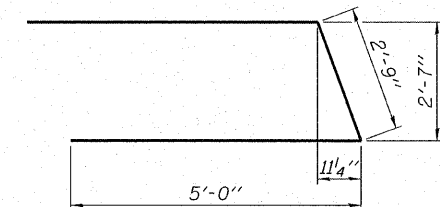
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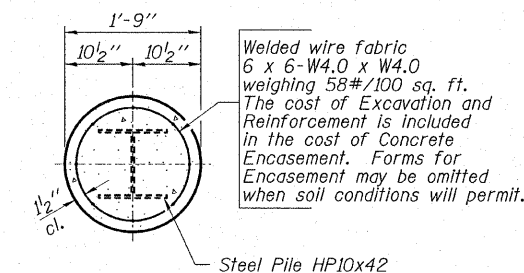
SECTION A-A



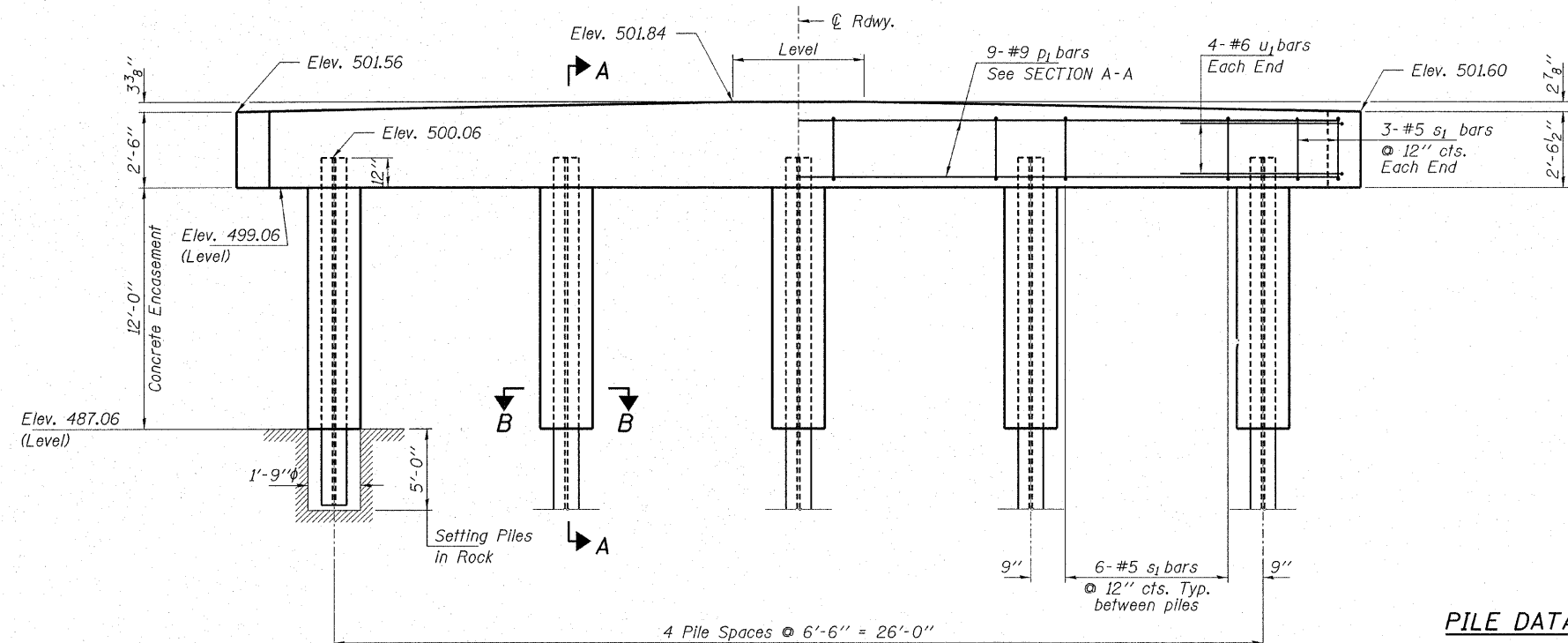
BAR s1



BAR u1



SECTION B-B



ELEVATION
(Looking North)

PILE DATA

Type.....	Steel HP10x42
No. Req'd.....	5
Design Capacity.....	56 Tons/Pile
Est. Length.....	20 Feet/Pile

BILL OF MATERIAL - 1 PIER

BAR	NO.	SIZE	LENGTH	SHAPE
p1	9	#9	30'-0"	—
s1	30	#5	10'-7"	□
u1	8	#6	12'-9"	U
Concrete Structures			Cu. Yd.	9.0
Reinforcement Bars			Pound	1,400
Furnishing Steel Piles HP10x42			Foot	100
Concrete Encasement			Cu. Yd.	5.2
Setting Piles in Rock			Each	5

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SPRINGFIELD, ILLINOIS 62703
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ELGIN • SPRINGFIELD • DUQUOIN

PROJECT NUMBER: 12-23-0025-1 DATE: 05/10/06
DESIGNED: J.W.F. CHECKED: S.W.M. DRAWN: D.T.M.

PIER
SECTION 05-00261-00-BR
F.A.S. 690 / C.H. 22 / FOX ROAD
CLARK COUNTY
STRUCTURE NO. 012-3333 / STATION 10+00

NOBLE		Structure #: 012-3333	BORING No. B-1	water level reading				
ENGINEERING CONSULTANTS		County: Clark, IL	Sheet No. 1 of 1	1st encounter: 9'				
Client: Clark County Highway Dept.		Weather: Sunny	Temperature: Low 30's	water level reading				
Driller: Noble Engineering Consultants		Date Start: 2-16-06	Surface Elevation: See Comments	@completion: cave 12'				
Location: 05-00261-00-BR		Date Finished: 2-16-06	Driller: Eric Seals	Backfill: soil cuttings				
Depth:	Sample No.	Sample Depth	N-Value	Blow Count	Recovery (%)	Qu (tsf)	Moisture (%)	Elev.
1								
2	SS-1	1.0'-2.5'	6	3-3-3	70		9.3	
3								
4	SS-2	3.5'-5.0'	9	2-3-6	100		16.8	
5								
6	SS-3	6.0'-7.5'	13	5-5-8	100		20.8	
7								
8								
9	SS-4	8.5'-10.0'	4	1-2-2	90		23.1	
10								
11								
12								
13								
14	SS-5	13.5'-15.0'	4	2-2-2	90		24.8	
15								
16								
17								
18								
19	SS-6	18.5'-20.0'	10	1-3-7	100		36.2	
20								
21	ST-1	20.0'-22.5'				0.34 Bulge		
22								
23								
24	SS-7	23.5'-25.0'	6	1-2-4	100		30.8	
25								
26	ST-2	25.0'-22.5'				see comments	21.5	
27								
28								
29								
30	SS-8	28.5'-30.0'	32	2-8-24	100		22.9	
Drilling Method: HSA (3-3/4" id)		comments	Unconfined Compressive Strength is denoted as Qu		Hammer type: Cathead			
Depth: 0' to 30.0'			Elevation information was not available at the time of exploration		Route: Fox Road crossing			
Drill Rig: Mobile B-47			Refer to boring location plan		Hurricane Creek			
Sampling: split- spoon (SS)			*Sample contained frequent sand seams making sample unsuitable for unconfined test					
shelby tube (ST)								

BORING 1

NOBLE		Structure #: 012-3333	BORING No. B-2	water level reading					
ENGINEERING CONSULTANTS		County: Clark, IL	Sheet No. 1 of 1	1st encounter: 9'					
Client: Clark County Highway Dept.		Weather: Sunny	Temperature: Teens	water level reading					
Driller: Noble Engineering Consultants		Date Start: 2-17-06	Surface Elevation: See Comments	@completion: cave 11'					
Location: 05-00261-00-BR		Date Finished: 2-17-06	Driller: Eric Seals	Backfill: soil cuttings					
Depth:	Sample No.	Sample Depth	N-Value	Blow Count	Recovery (%)	Qu (tsf)	Soil Description	Moisture (%)	Elev.
1							0.0'-7.0' Sandy, bwn FILL		
2	SS-1	1.0'-2.5'	6	2-3-3	70		w/ pea gravel in upper 12"	16.6	
3									
4	SS-2	3.5'-5.0'	6	2-2-4	90			18.4	
5									
6	SS-3	6.0'-7.5'	8	3-4-4	90		7.0'-9.0' Silty POSSIBLE FILL, bwn	13	
7									
8									
9	SS-4	8.5'-10.0'	3	2-1-2	100		9.0'-16.0' SILTY FINE TO MEDIUM SAND, tr. gravel, v. Loose to loose, wet, bwn	23.8	
10									
11									
12									
13									
14	SS-5	13.5'-15.0'	7	3-4-3	100		16.0'-18.5' CLAYEY SILTY LOAM, w/ frequent wet sand seams, tr.-sm gravel, gy	27.6	
15									
16									
17									
18									
19	SS-6	18.5'-20.0'	50+	38-50/2"	100		18.5'-30.0' HIGHLY WEATHERED SHALE	6.7	
20	ST-1	20.0'-20.3'				see comments			
21									
22									
23									
24	SS-7	23.5'-25.0'	50+	14-50/5"	100			9.2	
25									
26									
27									
28									
29									
30	SS-8	28.5'-30.0'	50+	14-14-50/5.8"	100		EOB 30.0'	14.3	
Drilling Method: HSA (3-3/4" id)		Comments	Unconfined Compression Strength is denoted as Qu		Hammer type: Cathead				
Depth: 0' to 30.0'			Elevation information was not available at the time of exploration		Route: Fox Road crossing				
Drill Rig: Mobile B-47			Refer to boring location plan		Hurricane Creek				
Sampling: split- spoon (SS)			*sample refusal with no recovery						
shelby tube (ST)									

BORING 2

HAMPTON, LENZINI & RENWICK, INC.
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ELGIN • SPRINGFIELD • DUQUOIN

PROJECT NUMBER: 12-23-0025-1 DATE: 05/10/06
 DESIGNED: J.W.F. CHECKED: S.W.M. DRAWN: D.T.M.

BORINGS

SECTION 05-00261-00-BR

F.A.S. 690 / C.H. 22 / FOX ROAD

CLARK COUNTY

STRUCTURE NO. 012-3333 / STATION 10+00