CONTRACT NO. 95471

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR183	99-01120-00-BR	SHEBLY	14	1

INDEX OF SHEETS

STANDARDS

000001-04	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS.
280001-02	TEMPORARY EROSION CONTROL SYSTEMS.
515001-02	NAME PLATES FOR BRIDGES.
630001-06	STEEL PLATE BEAM GUARDRAIL
630301-03	SHOULDER WIDENING FOR TYPE 1 GUARDRAIL TERMINALS
631026-02	TRAFFIC BARRIER TERMINAL TYPE 5 & 5A
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
6350011-01	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.

SCALE IN FEET

PLAN — 50 0 50 100 — 1" = 50'

PROFILE Vert. — 5 0 5 10 — 1" = 5'

Horiz. — 50 0 50 100 — 1" = 50'

CROSS SECTIONS Vert. — 5 0 5 10 — 1" = 5'

Horiz. — 10 0 10 20 — 1" = 10'

ADT-CURRENT 220 DESIGN 270
CLASS-LOCAL ROAD
DESIGN SPEED-40 MPH

CONTRACT NO. 95471

THE UPCHURCH GROUP
architects engineers surveyors environmental consultants
HILLSIDE, IL. (708) 449-2321
MATTOON, IL. (217) 235-3177

COVER BJF 04-04-03 1:1

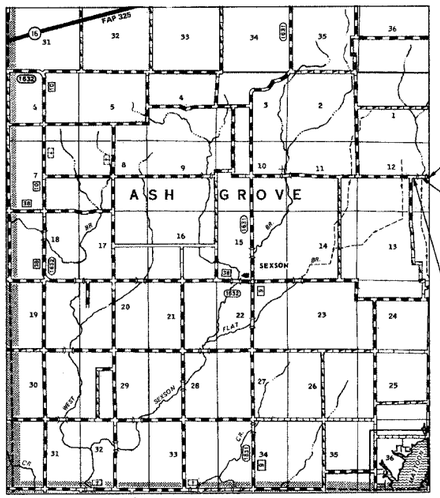
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED BRIDGE REPLACEMENT AND REHABILITATION PROGRAM

SECTION 99-01120-00-BR
ASH GROVE TOWNSHIP
TR 183
SHELBY COUNTY

JOB NO. C-97-084-06
PROJECT NO. BROS-173 (125)

R 6E , 3 P.M.



BEGIN SECTION
STA. 10+00

℄ PROPOSED STRUCTURE *087-3516
STA. 14+95, 24'-0" WIDE x 60'-0" LONG, SINGLE SPAN PRECAST, PRESTRESSED CONCRETE DECK BEAM BRIDGE. 27" DEPTH. NO SKEW.
EXISTING STRUCTURE *087-3040

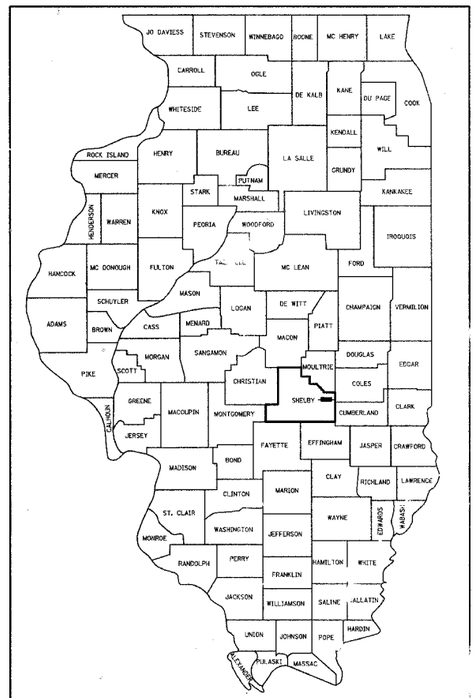
END SECTION
STA. 20+00

N

LOCATION MAP

0 1 2 — 1" = 1 mile

TOTAL LENGTH OF PROJECT = 1000 FT. = 0.189 MILES
NET LENGTH OF PROJECT = 1000 FT. = 0.189 MILES



LOCATION OF SECTION INDICATED THUS: -

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

APPROVED 3-24 20 06
S. Alan Gnad
COUNTY ENGINEER

PASSED 4-18 20 06
Maureen E Kastl
DISTRICT SEVEN ENGINEER OF LOCAL ROADS AND STREETS

Realeasing For Bid Based on Limited Review 4-18 20 06
Christine M Reed
DEPUTY DIRECTOR OF HIGHWAYS
REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED Wm. Robin Anderson 3-27-06
ASH GROVE TWP HIGHWAY COMM.

ANDY L. BAKER 062-057920 LICENSED PROFESSIONAL ENGINEER OF Illinois

Andy L. Baker 3/23/06
ANDY L. BAKER , P.E. LICENSE EXPIRATION DATE 11-30-07

CONTRACT NO. 95471

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR183	99-01120-00-BR	SHELBY	14	2
STA. 10+00	TO STA. 20+00			

SUMMARY OF QUANTITIES

X031-2A

CODE	ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CUYD	896
20300100	CHANNEL EXCAVATION	CUYD	351
20400800	FURNISHED EXCAVATION	CUYD	339
25000200	SEEDING CLASS 2 •	ACRE	1.0
25000400	NITROGEN FERTILIZER NUTRIENT.	POUND	90
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	90
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	90
25100115	MULCH, METHOD 2 •	ACRE	1.0
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100
28000300	TEMPORARY DITCH CHECKS	EACH	4
28000400	PERIMETER EROSION BARRIER	FOOT	112
28000500	INLET & PIPE PROTECTION	EACH	2
28100207	STONE RIPRAP CLASS A4	TON	240
28200200	FILTER FABRIC	SQYD	362
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	980
50100100	REMOVAL OF EXISTING STRUCTURE	EACH	1
50200100	STRUCTURE EXCAVATION	CUYD	86
50300225	CONCRETE STRUCTURES	CUYD	18
50400505	P.P.C. DECK BEAMS (27" DEPTH)	SQFT	1408
50800105	REINFORCEMENT BARS	POUND	2290
50900205	STEEL RAILING TYPE S1	FOOT	120
51201000	FURNISHING METAL SHELLS 12"	FOOT	258
51202600	DRIVING AND FILLING SHELLS	FOOT	258
51203200	TEST PILE METAL SHELLS	EACH	2
51204315	CONCRETE ENCASEMENT	CUYD	2
51500100	NAME PLATES	EACH	1
542D0223	PIPE CULVERT CLASS D TYPE 1 18"	FOOT	72
63100075	TRAFFIC BARRIER TERMINAL TYPE 5A	EACH	2
63100167	TRAFFIC BARRIER TERMINAL TYPE 1 (TANGENT)	EACH	2
67100100	MOBILIZATION	LSUM	1
78200410	GUARDRAIL MARKER TYPE A	EACH	6
78201000	TERMINAL MARKER DIRECT APPLIED	EACH	4

• SEE SPECIAL PROVISIONS

EARTHWORK SCHEDULE

1 LOCATION	2 EARTH EXCAVATION	3 EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	4 EMBANKMENT	5 EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	Cubic Yard	Cubic Yard	Cubic Yard	Cubic Yard
Sta. 10+00 to Sta. 14+50	464	348	708	-360
Sta. 15+41 to Sta. 20+00	432	324	303	+21
Total	896	672	1011	-339*

* Channel Ex. Unsuitable for use as fill.

Column 1,2, &4 - Location and Quantities from Cross Sections,
Cut = Earth Excavation Fill = Embankment

Column 3 - Quantity of Earth Excavation (Cut) Adjusted for a shrinkage factor of 25%

Column 5 - Earthwork Balance (-) = Quantity of Furnished Excavation needed
Earthwork Balance (+) = Quantity of Earth Excavation Adjusted for shrinkage to be wasted

GENERAL NOTES

1. This section shall be constructed in accordance with the plans, the " Standard Specifications for Road and Bridge Construction" adopted January 1, 2002; the Supplmental Specifications and recurring Special Provisions " adopted March 1, 2005 and the Special Provisions included in the proposal.

2. Temporary erosion control to be implemented per the plans and as directed by the engineer.

3. The contractor shall provide postive drainage at all times within the construction areas and prevent drainage or ponding of water onto private property.

4. The following application rates have ben used to calculate the items necessary for seeding class 2 :
   Fertilizer Nutrients:
   Nitrogen 90 lbs per acre
   Phosphorous 90 lbs per acre
   Potassium 90 lbs per acre
   Mulch 2 tons per acre
   The seeding mixture shall confrom to roadside mixture type 2, during the period between November 1 and December 1. The contractor shall substitute 10 pounds of perennial rye for 48 pounds of oats, spring.

5. Only trees or shrubs marked for removal by the engineer shall be removed by the contractor.

6. All distrubed earth surfaces within the limits of the R.O.W. and easements shall be seeded as directed by the engineer.

7. Where section or subsection monuments are encountered, the engineer shall be notified before such monuments are removed. The contractor shall protect and carefully preserve all property marks and monuments until the owner, an authorized surveyor or agent has witnessed or otherwise referenced their location.

8. The contractor shall consult with the engineer in regard to the exact lengths of pipe culverts prior to ordering these items.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
TR 183 OVER CLEAR CREEK
SECTION 99-01120-00-BR
SHELBY COUNTY STA. 14+95
STRUCTURE NO. 087-3516

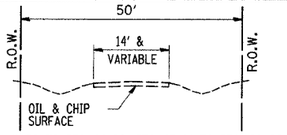
SCALE: N.T.S. DRAWN BY BJF
DATE 04/08/03 CHECKED BY ---

THE UPCHURCH GROUP
architects engineers surveyors environmental consultants
HILLSIDE, IL. (708) 449-2321
MATTOON, IL. (217) 235-3177

QUAN PBB 1-30-02

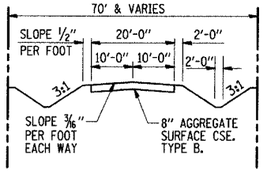
CONTRACT NO. 95471

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
183	99-01120-00-BR	SHELBY	14	3
STA. 10+00	TO STA. 20+00			



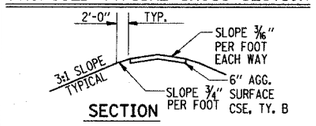
STA. 10+00 TO STA. 14+86, STA. 15+14 TO STA. 20+00

EXISTING TYPICAL CROSS SECTION

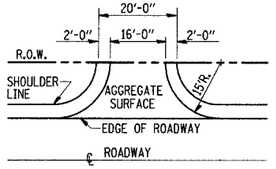


STA. 10+00 TO STA. 14+65, STA. 15+25 TO STA. 20+00

PROPOSED TYPICAL CROSS SECTION

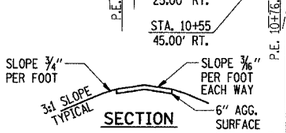


SECTION

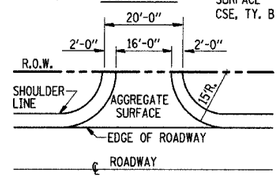


PLAN

PRIVATE ENTRANCE DETAIL



SECTION



PLAN

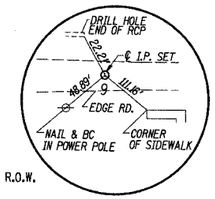
FIELD ENTRANCE DETAIL

TEMPORARY DITCH CHECKS

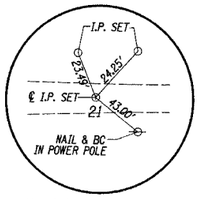
LOCATION	QTY.
LT. & RT. STA. 13+00	2
LT. & RT. STA. 17+60	2
TOTAL	4EA.

INLET & PIPE PROTECTION

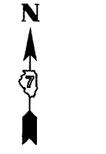
LOCATION	QTY.
RT. STA. 15+86	1
RT. STA. 17+18	1
TOTAL	2EA.



BASELINE TIE STATION 9+00



BASELINE TIE STATION 21+00

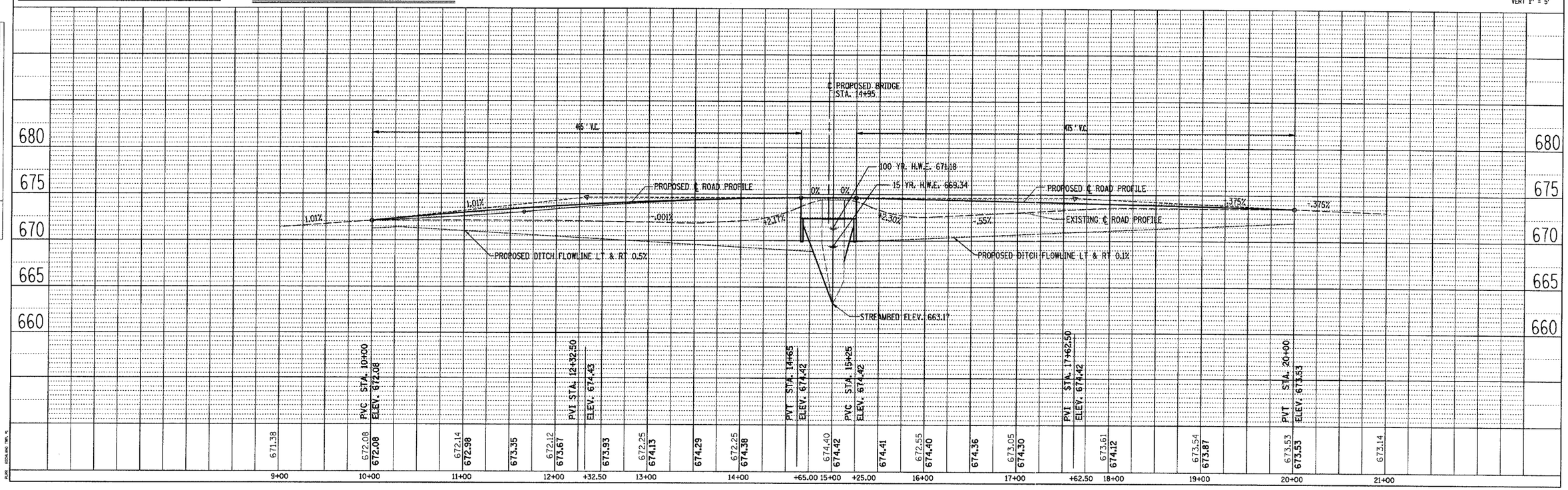


SCALE: HORZ. 1"=50'
VERT 1" = 5'

REMOVAL OF EXIST. STRUCTURE # 087-3040
23' WIDE x 28' LONG SINGLE SPAN CONC. DECK ON STEEL STRINGERS WITH 1/3 DECK OLD RAILROAD CAR SUPPORTED BY CONC. ABUTMENTS.
TOTAL 1 EACH

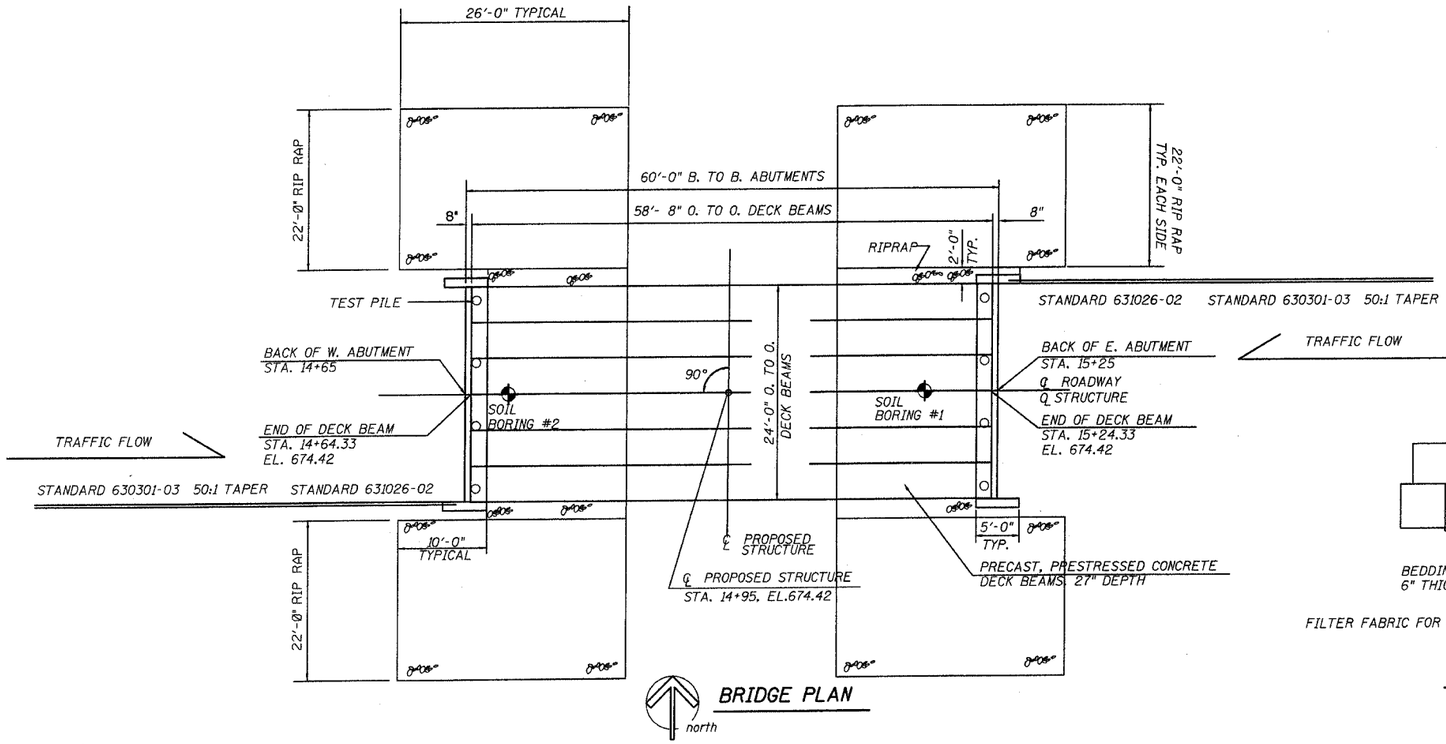
BENCHMARK #1
NAIL IN POWER POLE SOUTHEAST OF BRIDGE
ELEVATION = 675.62

BENCHMARK #2
CHISELED SQUARE IN NORTHWEST WINGWALL OF EXISTING STRUCTURE
ELEVATION = 674.49

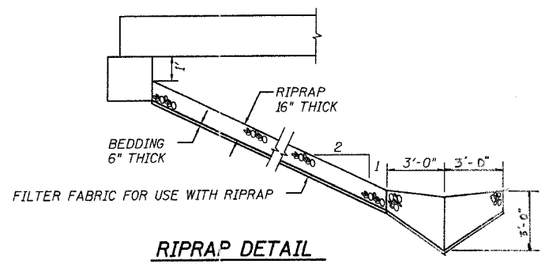


CONTRACT NO 95471

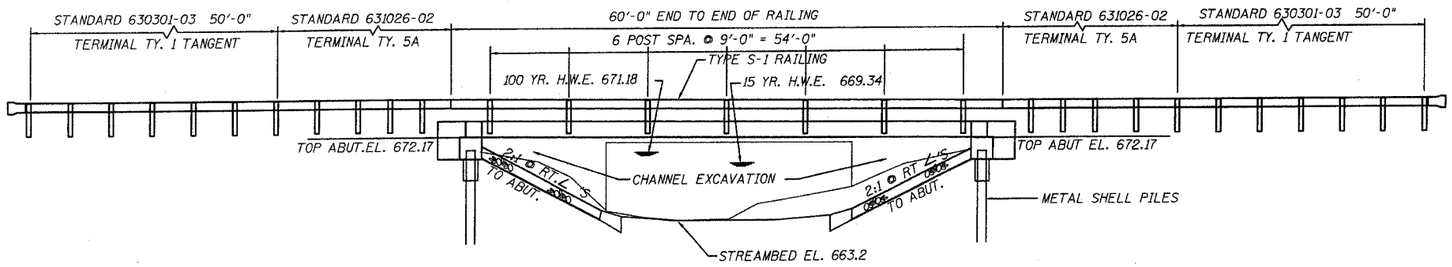
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
183	99-01120-00	Shelby	14	4
STA. 10+00		TO STA. 20+00		



BRIDGE PLAN



RIPRAP DETAIL



BRIDGE ELEVATION

GENERAL NOTES

1. THE CONTRACTOR SHALL DRIVE ONE (1) METAL SHELL PILE IN A PERMANENT LOCATION, IN EACH ABUTMENT, AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF PILES.
2. BORING DATA IS SHOWN ONLY AS A GUIDE TO BIDDERS IN ESTIMATING SOIL CONDITIONS THAT MAY BE ENCOUNTERED.
3. ALL REINFORCING BARS SHALL BE LAPPED AS SHOWN ON PLANS.

DESIGN STRESSES:

SUBSTRUCTURE

Fy = 60,000 p.s.i. (REINFORCEMENT)

F'c = 3,500 p.s.i.

n = 9

P.P.C. SUPERSTRUCTURE

Fy = 60,000 p.s.i. (REINFORCEMENT)

F'c = 5,000 p.s.i.

F'ci = 4,000 p.s.i.

F's = 270,000 p.s.i. (1/2"ϕ STRANDS)

F'si = 189,000 p.s.i. (1/2"ϕ STRANDS)

DESIGN LOADING

HS 20-44

DESIGN SPECIFICATIONS

2002 A.A.S.H.T.O., STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES

CLEAR CREEK
BUILT 2006 BY
SHELBY COUNTY
SEC. 99-01120-00-BR
STATION 14+95 PROJ.NO. BROS-173(125)
STR. NO. 087-3516 LOADING HS20

LETTERING FOR NAME PLATE

LOCATE SW WINGWALL

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUBSTR.	SUPER	TOTAL
PRECAST, PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ. FT.		1408	1408
CONCRETE STRUCTURES	CU. YD.	18		18
REINFORCEMENT BARS	POUNDS	2290		2290
TYPE "S-1" RAILING	LIN. FT.	120		120
NAME PLATE	EACH		1	1
FURNISHING METAL PILE SHELLS 12"	LIN. FT.	258		258
DRIVING AND FILLING SHELLS	LIN. FT.	258		258
TEST PILES METAL SHELLS	EACH	2		2
REMOVAL OF EXISTING STRUCTURE	EACH	1		1
STRUCTURE EXCAVATION	CU. YD.	86		86
STONE RIPRAP, CLASS A4	TON	240		240
FILTER FABRIC	SQYD	362		362
CHANNEL EXCAVATION	CUYD	351		351
CONCRETE ENECASEMENT	CUYD	2.1		2.1
TRAFFIC BARRIER TERMINAL TY. 1 (TAN)	EACH	2		2
TRAFFIC BARRRIER TERMINAL TYPE 5A	EACH	2		2

WATERWAY INFORMATION

DRAINAGE AREA = 2.4 SQ. MI. LOW GRADE ELEV. = 672.17 @ STA. 14+95

FLOOD	FREQ. YR.	Q C.F.S.	OPENING SQ. FT. EXIST.	OPENING SQ. FT. PROP.	NAT. H.W.E.	HEAD - FT. EXIST.	HEAD - FT. PROP.	HEADWATER EL. EXIST.	HEADWATER EL. PROP.
DESIGN	15	726	167	272	669.33	1.7	0	671.02	669.34
BASE	100	1175	167	272	670.50	1.7	0.7	672.20	671.18
MAX. CALC.	500	1542	167	272	671.18	1.6	1.6	672.65	673.29

THIS STRUCTURE HAS BEEN DESIGNED TO BE STABLE FOR SCOUR CONDITIONS IN ACCORDANCE WITH THE FHWA TECHNICAL ADVISERY - T 5140.23, "EVALUATING SCOUR AT BRIDGES" AND HYDRAULIC ENGINEERING CIRCULAR 18 - EVALUATING SCOUR AT BRIDGES.

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 THE REQUIREMENTS OF THE CURRENT "AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES".

03-23-06

MARTIN J. SYLVESTER
STRUCTURAL ENGINEER
LICENSE EXP. DATE: 11-30-06

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

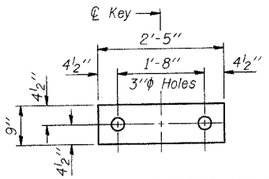
BRIDGE PLAN & ELEVATIONS
TR 183 OVER CLEAR CREEK
SECTION 99-01120-00-BR
SHELBY COUNTY STA. 14+95
STRUCTURE NO. 087-3516

SCALE: N.T.S. DRAWN BY BJF

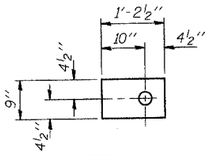
DATE CHECKED BY

CONTRACT NO. 95471

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR183	99-01120-00-BR	SHELBY	14	5
STA.	10+00	TO STA.	20+00	

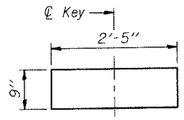


FABRIC BEARING PAD
(Interior)

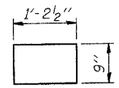


FABRIC BEARING PAD
(Exterior)

FIXED

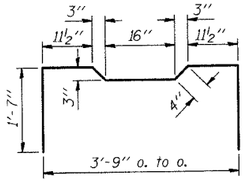


FABRIC BEARING PAD
(Interior)

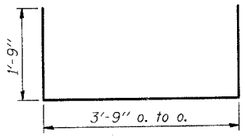


FABRIC BEARING PAD
(Exterior)

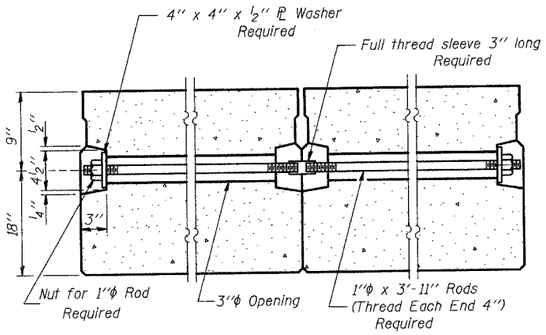
EXPANSION



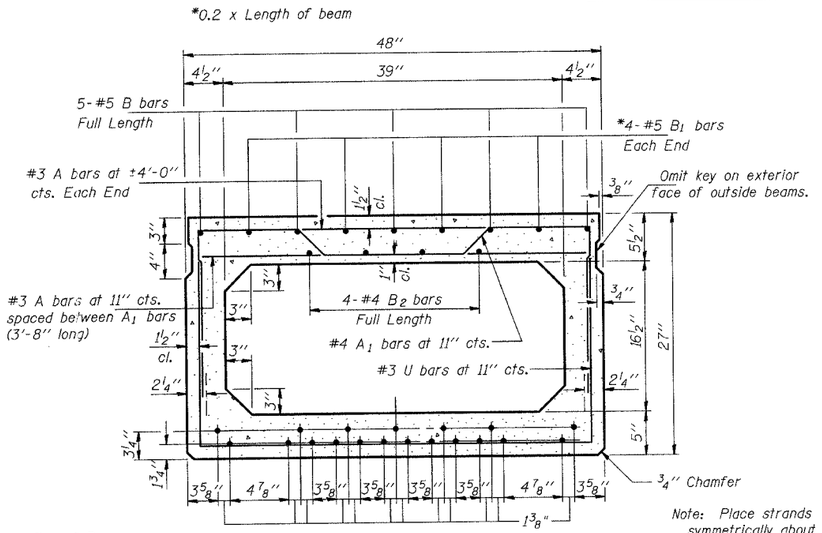
BAR A_1



BARS U & U_1

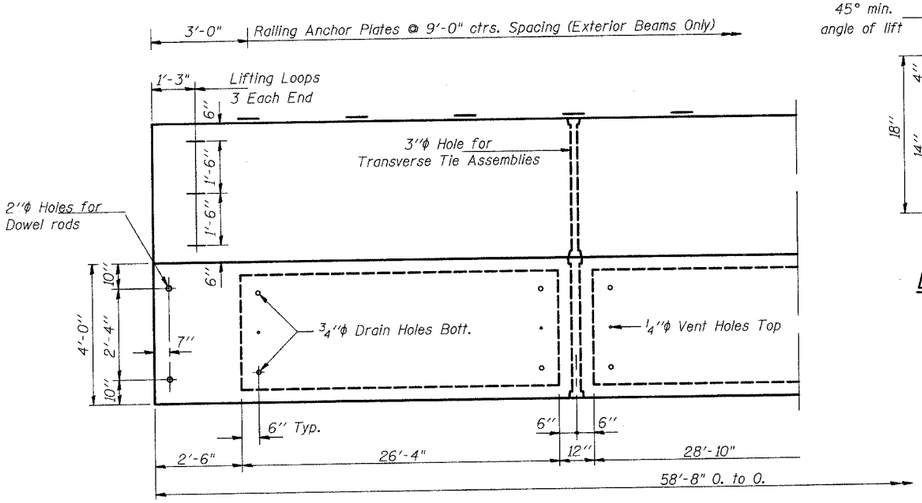


TYPICAL TRANSVERSE TIE ASSEMBLY

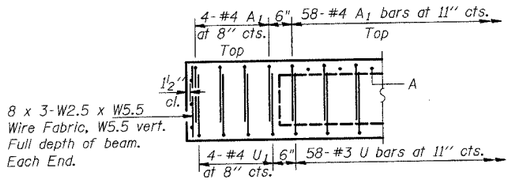


TYPICAL SECTION

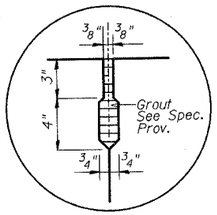
½"ϕ Strands Each Strand Stressed to 28,900 Lbs.
12-Strands 1¾" up, 7-Strands 3¼" up



PLAN

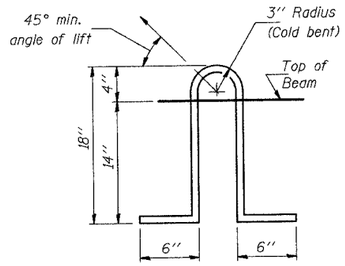


END ELEVATION

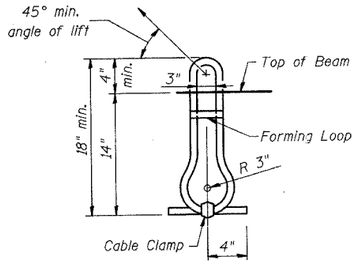


GROUTED KEY DETAIL

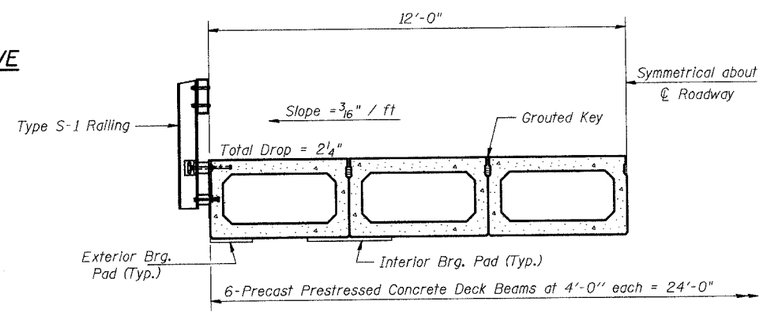
Not To Scale



LIFTING LOOP DETAIL



WIRE ROPE ALTERNATIVE



HALF CROSS SECTION

NOTES

1. Prestressing steel shall be uncoated high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.
2. Lifting loops shall be ¾" diameter, 6x25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 46,000 lbs. or three -½"ϕ-270 ksi strands, as shown.
3. Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.
4. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two ⅛" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.
5. 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.
6. Required Release Strength, f'ci, shall be 4000 p.s.i. An equal substitution of the low-relaxation strands for the stress-relieved strands will be permitted.

BILL OF MATERIAL

Item	Unit	Qty.
Precast Prestressed Conc. Deck Bms.	Sq. Ft.	1408

REVISIONS NAME	DATE

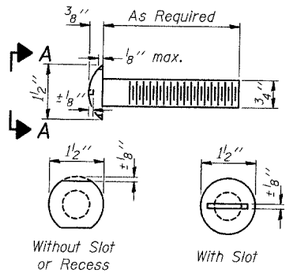
ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK BEAM DETAILS
TR 183 OVER CLEAR CREEK
SECTION 99-01120-00-BR
SHELBY COUNTY STA. 14+95
STRUCTURE NO. 087-3516

SCALE: N.T.S. DRAWN BY BJF
DATE 04/08/03 CHECKED BY MJS

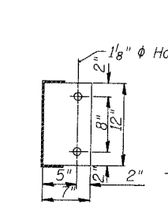
DECKBEAM BJF 10-15-01 1:1

CONTRACT NO. 95471

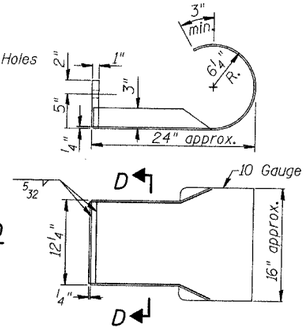
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR183	99-01120-00-BR	SHELBY	14	6
STA. 10+00	TO STA. 20+00			



VIEW A-A
ROUND HEAD BOLT

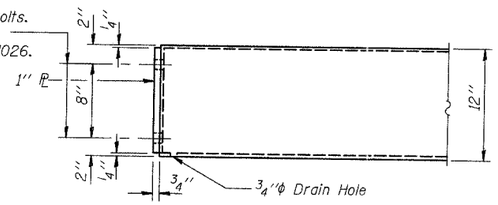


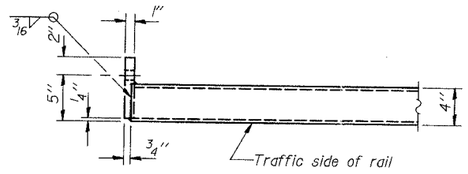
SECTION D-D



CURLED END SECTION

1 1/8"ϕ Holes for 1"ϕ x 4" Round Head Bolts. Provide 2 flat washers & locknuts for guard rail connection shown on Std. 631026.





END OF RAIL DETAILS

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 requirements 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 according to AASHTO M 232.

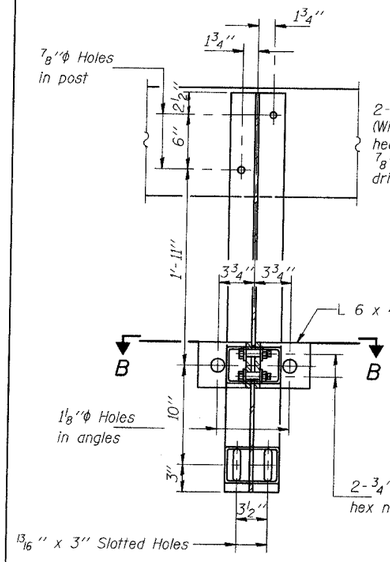
All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. Galvanized rail shall not be painted.

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for STEEL RAILING, TYPE S-1.

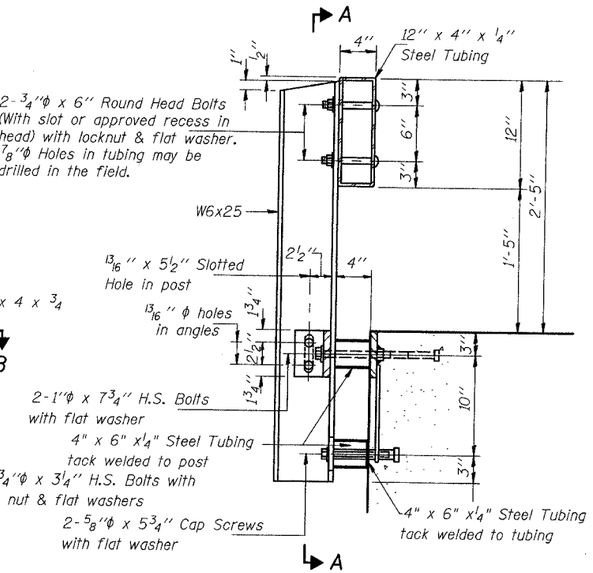
All field drilled holes shall be coated with an approved zinc rich paint before erection.

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" fabric bearing pad between the post and concrete.

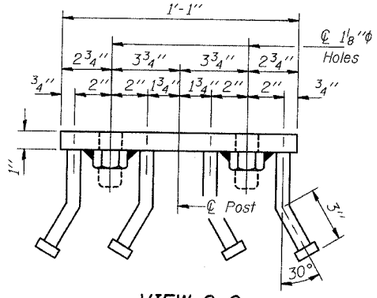
The 3/4"ϕ high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened according to Article 505.04(f)(2) of the Standard Specifications. The 1"ϕ high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/8 turn. The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



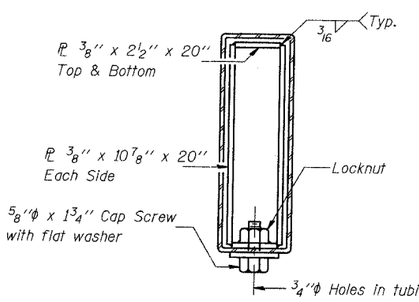
SECTION A-A



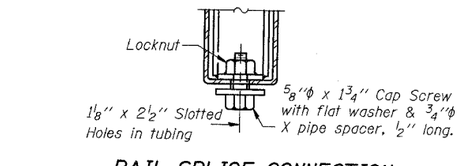
SECTION AT RAIL POST



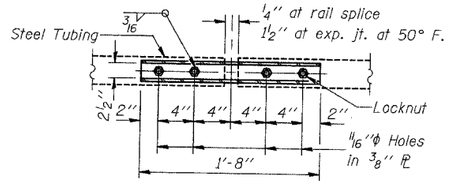
VIEW C-C



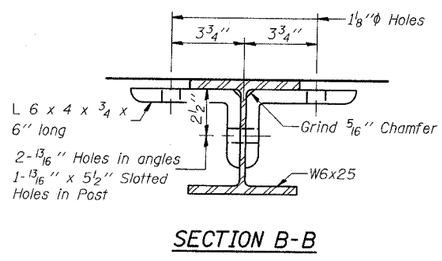
SECTIONS AT RAIL SPLICE



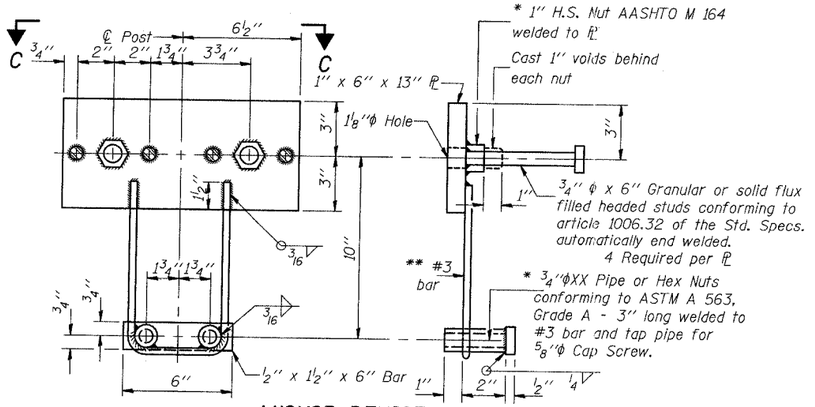
RAIL SPLICE CONNECTION AT EXPANSION JT.



PLAN-BOTT. SPLICE ℄ TYPICAL



SECTION B-B



ANCHOR DEVICE

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

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing Type S-1	Foot	120

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DECK RAILING DETAILS
TR 183 OVER CLEAR CREEK
SECTION 99-01120-00-BR
SHELBY COUNTY STA. 14+95
STRUCTURE NO. 087-3516

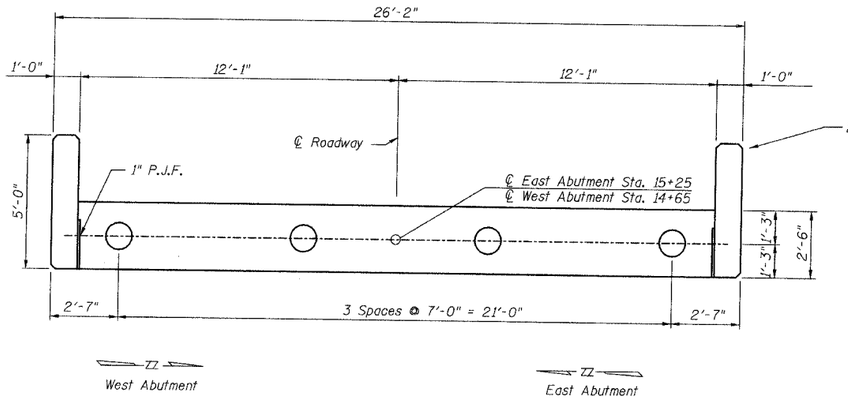
SCALE: N.T.S.
DRAWN BY BJF
DATE 04/08/03
CHECKED BY

THE UPCHURCH GROUP
architects engineers surveyors environmental consultants
HILLSIDE, IL. (708) 449-2323
MATTOON, IL. (217) 236-3177

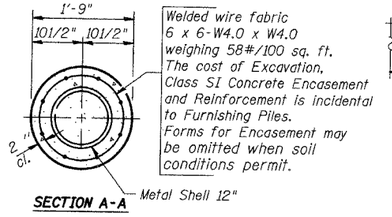
RAIL PBB 1-30-02

CONTRACT NO 95471

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR183	99-01120-00-BR	SHELBY	14	7
STA.	10+00	TO STA. 20+00		

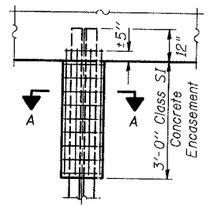


PLAN

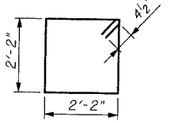


SECTION A-A

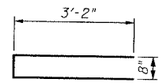
Welded wire fabric 6 x 6-W4.0 x W4.0 weighing 58#/100 sq. ft. The cost of Excavation, Class SI Concrete Encasement and Reinforcement is incidental to Furnishing Piles. Forms for Encasement may be omitted when soil conditions permit.



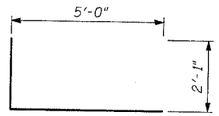
PILE ENCASEMENT DETAIL



BAR s



BAR u_1



BAR u

BILL OF MATERIAL

(INCLUDES BOTH ABUTMENTS AND FOUR WINGS)

Bar	No.	Size	Length	Shape
h	40	#5	4'-8"	
h_1	6	#5	23'-10"	
p	12	#8	25'-10"	
s	54	#4	9'-5"	
u	16	#6	12'-1"	
u_1	8	#5	7'-0"	
v	48	#5	3'-11"	
v_1	50	#5	4'-5"	

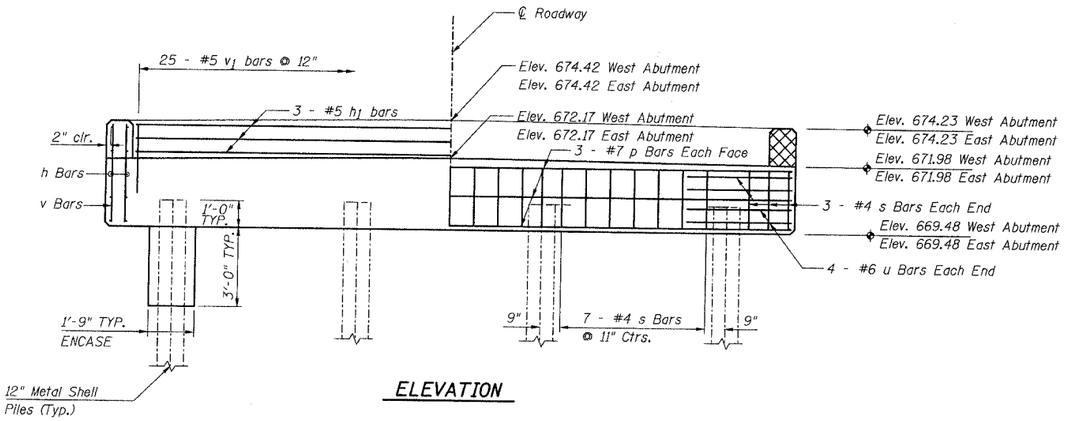
Item	Unit	Qty.
Concrete Structures	Cu.Yd.	18.0
Reinforcement Bars	Lb.	2,290
Furnishing Metal Shells 12"	Ft.	258
Driving and Filling Shells	Ft.	258
Test Pile Metal Shells	Each	2
Structure Excavation	Cu.Yd.	86
Concrete Encasement	Cu.Yd.	2.0

PILE DATA

Type	Metal Shells 12"
No. Required	8*
Capacity	45 Tons
Estimated Length	W. Abutment 45 Ft. E. Abutment 41 Ft.

*Includes one Test Pile at Each Abutment

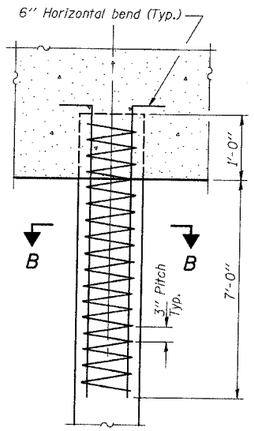
Metal Shells Shall Be 1/4" Wall Thickness.

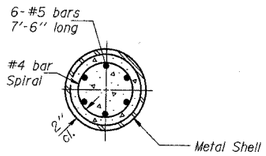


ELEVATION

Shaded Areas to be constructed after Deck Beams have been placed

*** Dowel Rods to be grouted after beams are in place and allowed to cure (Min. 24 hrs.) prior to grouting the shear key

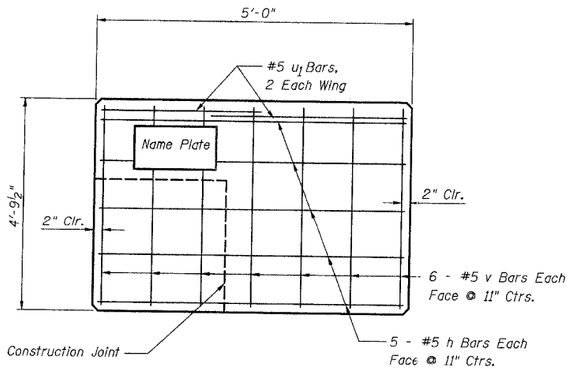




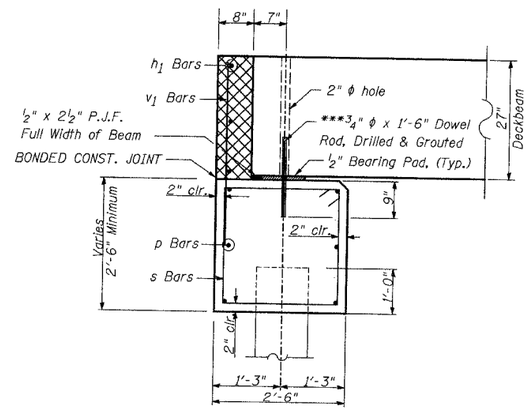
SECTION B-B

The cost of Reinforcement is included with furnishing piles.

DETAIL OF REINFORCEMENT FOR METAL SHELLS AT ABUTMENTS



WINGWALL ELEVATION



SECTION THRU ABUTMENT

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ABUTMENT DETAILS
TR 183 OVER CLEAR CREEK
SECTION 99-01120-00-BR
SHELBY COUNTY STA. 14+95
STRUCTURE NO. 087-3516

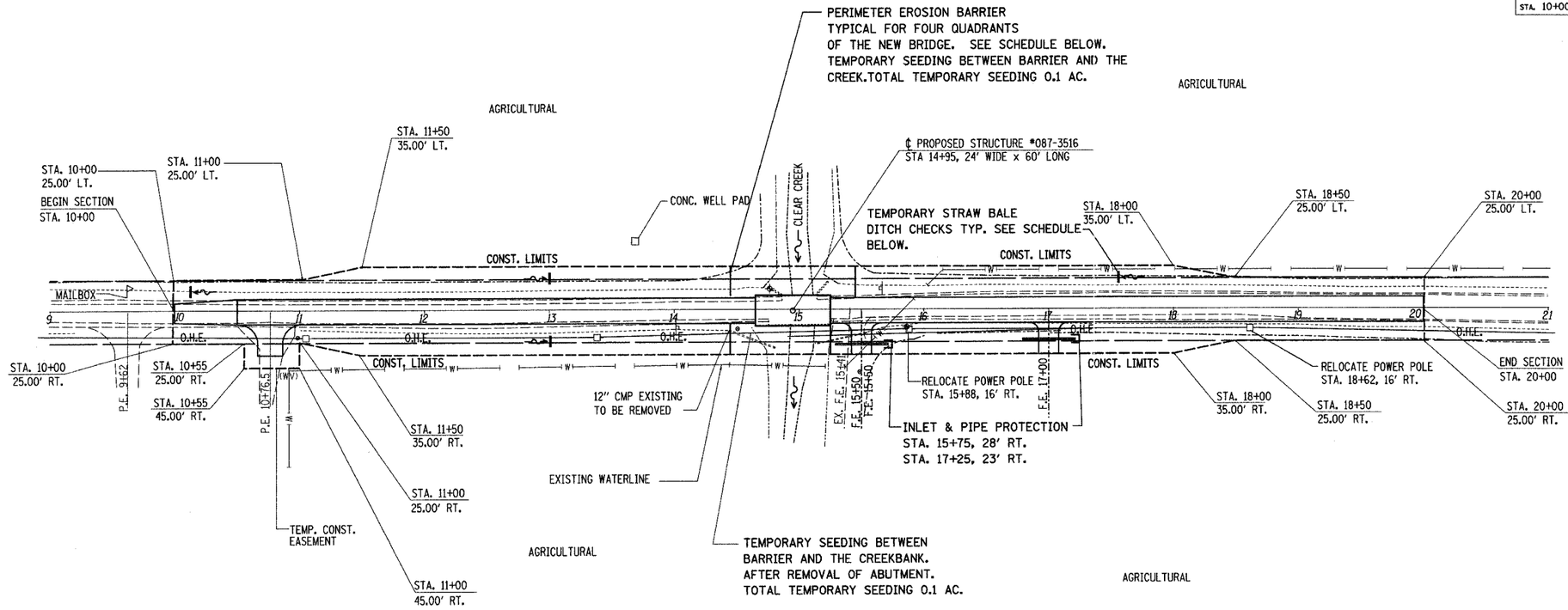
SCALE: N.T.S. DRAWN BY BJF
DATE 04/08/03 CHECKED BY MJS

THE UPCHURCH GROUP
architects engineers surveyors environmental consultants
HILLSIDE, IL. (708) 449-2321
MATTOON, IL. (217) 235-3177

ABUTPLN BJF 10-15-01 3/8" = 1'

CONTRACT NO. 95471

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
TR183	99-01120-00-BR	SHELBY	14	8
STA. 10+00	TO STA. 20+00			



TOTAL AREA OF CONSTRUCTION : 1.5 AC.
TOTAL AREA DISTURBED DURRING CONST.: 1.0 AC.

ESTIMATED RUNOFF COEFFICIENT AFTER CONSTRUCTION:
COURSE TEXTURED GRASS
SOIL GREATER THAN 40% CLAY
C=.25

GENERAL NOTES:
1. SEE STANDARD 280001-02
2. SEEDING CL.2 WITH FERTILIZER AND MULCH WITHIN CONSTRUCTION LIMITS AND ALL DISTURBED AREAS.
3. PERIMETER EROSION BARRIER NEEDS TO BE ERECTED BEFORE ANY WORK BEGINS SEE STD. 280001.
4. MAINTENANCE OF ALL EROSION CONTROL DEVICES WILL BE PERFORMED IMMEDIATELY AFTER A RAIN EVENT OR ANY DISTURBANCE OF THE CONTROL.
5. REMOVAL AND PROPER CLEAN UP OF ALL TEMPORARY EROSION DEVICES WILL BE REQUIRED AFTER PERMANENT EROSION CONTROL IS IN PLACE AND FUNCTIONING.

EROSION BARRIER SCHEDULE

STATION	OFFSET	DIST
14+50	12'LT to 35'LT	32'
14+50	12'RT to 35'RT	26'
15+25	12'RT to 30'RT	24'
15+50	12'LT to 35'LT	30'

TEMPORARY DITCH CHECK SCHEDULE

STATION	LT.	RT.
10+15	15'	
13+00	25'	25'
17+50	25'	

BILL OF MATERIAL

Item	Unit	Qty.
Temporary Erosion Control Seeding	Pound	100
Temporary Ditch Checks	Each	4
Perimeter Erosion Barrier	Foot	112
Inlet Pipe Protection	Each	2

N

SCALE: HORZ. 1"=50'

BENCHMARK #1
NAIL IN POWER POLE
SOUTHEAST OF BRIDGE
ELEVATION = 675.62

BENCHMARK #2
CHISELED SQUARE IN NORTHWEST
WINGWALL OF EXISTING STRUCTURE
ELEVATION = 674.49

REVISIONS	
NAME	DATE

EROSION CONTROL PLAN
TR 183 OVER CLEAR CREEK
SECTION 99-01120-00-BR
SHELBY COUNTY
STA 10+00 TO 20+00
STRUCTURE NO. 087-3516

SCALE: 1"=50' DRAWN BY ALB
DATE 02-06-06 CHECKED BY

THE UPCHURCH GROUP
architects engineers surveyors environmental consultants
HILLSIDE, IL. (708) 449-2321
MATTOON, IL. (217) 235-3177

EROSION 02-06-06 1:50

CONTRACT NO. 95471

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
99-01120-00	SHELBY	14	9

10+50 10+00 9+62 9+50 9+00

675 670 665 660 655 650

EXISTING R.O.W.

671.50

671.25

C = 4.2
F = 7.5

6:12.56

6:12.08

℄

CONTRACT NO. 95471

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
99-01120-00	SHELBY	14	10

CONTRACT NO 95471

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
99-01120-00	SHELBY	14	11

BRIDGE OMISSION STA. 14 + 65 TO STA 15 + 25

14 + 50

669.00

EXISTING R.O.W.

PROPOSED R.O.W.

6:1

4:1

C = 45.6
F = 32.0

14 + 00

669.25

C = 46.6
F = 33.3

13 + 50

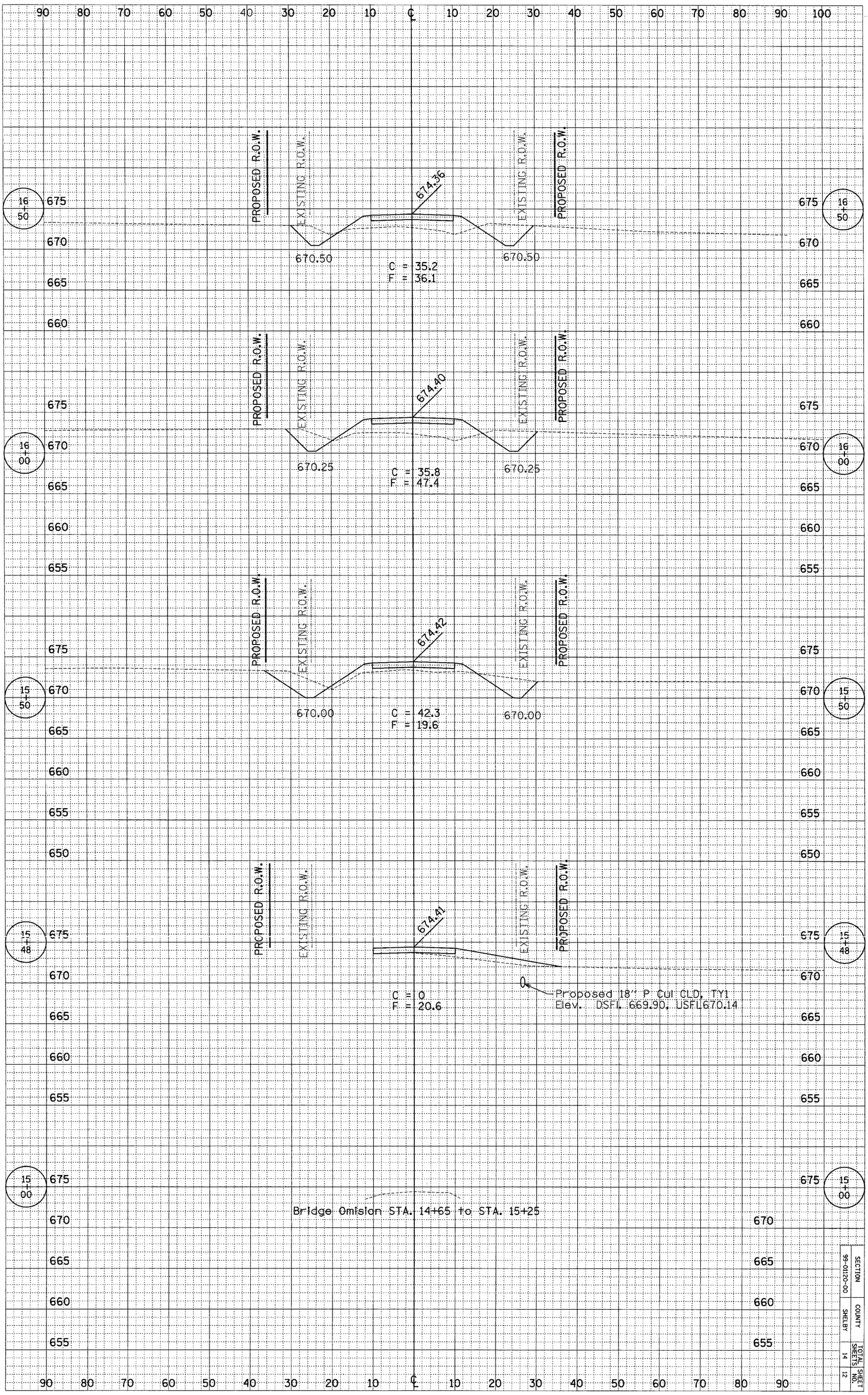
669.50

C = 44.2
F = 74.2

13 + 00

669.75

C = 35.4
F = 66.6



SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
99-01120-00	SHELBY	14	12

CONTRACT NO. 9547

CONTRACT NO. 95471

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
99-01120-00	SHELBY	14	13

18+62

EXISTING R.O.W.

PROPOSED R.O.W.

672.00

674.00

C = 26.8
F = 3.0

18+50

EXISTING R.O.W.

PROPOSED R.O.W.

671.50

674.12

C = 22.2
F = 7.7

18+00

EXISTING R.O.W.

PROPOSED R.O.W.

671.00

674.22

C = 29.5
F = 19.0

17+50

EXISTING R.O.W.

PROPOSED R.O.W.

18" CMP

670.75

674.70

C = 35.1
F = 26.3

17+00

CONTRACT NO. 95471

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
99-01120-00	SHELBY	14	14

21 + 00

20 + 50

20 + 00

19 + 50

19 + 00

EXISTING R.O.W.

672.07

672.01

672.75

672.50

6:1

C = 7.5
F = 5.6

C = 9.6
F = 4.0