

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PLANS FOR PROPOSED HIGHWAY BRIDGE PROGRAM

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS
T.R. 74	06-19116-00-BR	SHELBY	12
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT
CONTRACT NO. 95499			

- INDEX OF SHEETS**
1. COVER SHEET
 2. SUMMARY OF QUANTITIES AND TYPICAL SECTIONS
 3. PLAN AND PROFILE
 - 4.-7. STATION CROSS SECTIONS
 - 8.-11. BRIDGE PLANS
 12. BORINGS

HIGHWAY STANDARDS:

- 000001-04 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 280001-03 TEMPORARY EROSION CONTROL SYSTEMS
- 515001-02 NAME PLATE FOR BRIDGES
- 635006-02 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 702001-06 TRAFFIC CONTROL DEVICES
- BLR 21-6 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- BLR 24-1 MAILBOX TURNOUT FOR LOCAL ROADS

UTILITIES

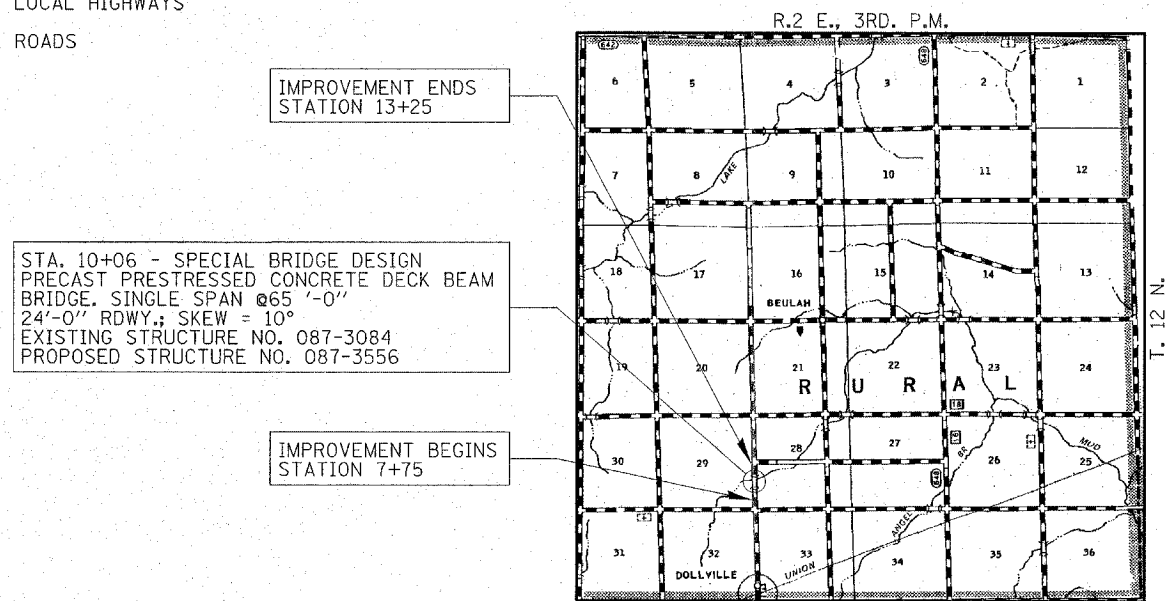
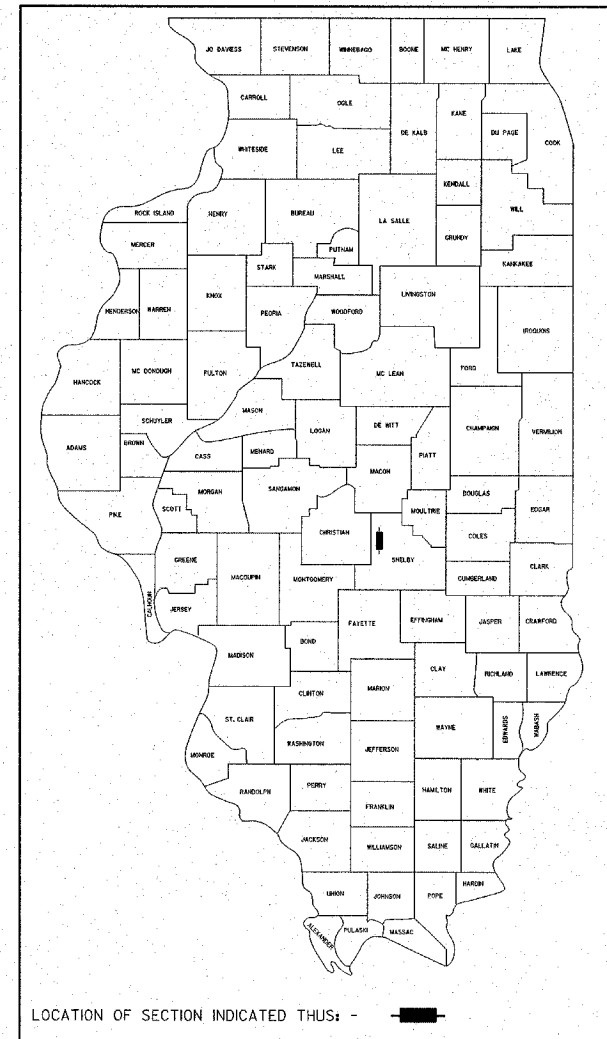
- CONSOLIDATED COMMUNICATIONS
121 SOUTH 17TH STREET
MATTOON, ILLINOIS 61938
217-235-3311
- SHELBY ELECTRIC COOPERATIVE
P.O. BOX 560
SHELBYVILLE, ILLINOIS 62565
217-774-3330

DESIGN FUNCTIONAL CLASSIFICATION:
LOCAL ROAD 0-250 ADT
DESIGN TRAFFIC: 150 ADT
DESIGN SPEED: 30 M.P.H.

SCALES

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

PROJECT BROS-173(147) SECTION 06-19116-00-BR RURAL ROAD DISTRICT SHELBY COUNTY T.R. 74 C-97-033-07



LAYOUT
APPROXIMATE SCALE: 0 1 MILE
NET LENGTH OF SECTION = 550 FEET = 0.104 MILES

CONTRACT NO. 95499



APPROVED *[Signature]* 12-18-06 20 06
SHELBY COUNTY ENGINEER

APPROVED *[Signature]* 12-19-06 20 06
RURAL ROAD DISTRICT COMMISSIONER

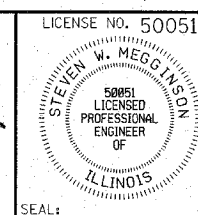
PASSED *[Signature]* 1/5 20 07
DISTRICT SEVEN ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review *[Signature]* 1/5 20 07
DEPUTY DIRECTOR OF HIGHWAYS
REGION FOUR ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE: 12-18-06

BY: *[Signature]*

LICENSE EXPIRES: NOVEMBER 30, 2007



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

HLR

3085 STEVENSON DRIVE, SUITE 20
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-87-0017-1 | DATE: 12/18/06

SUMMARY OF QUANTITIES

CODE NO	ITEM	CONSTRUCTION CODE	
		UNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)		32
20200100	EARTH EXCAVATION	CU YD	380
20300100	CHANNEL EXCAVATION	CU YD	345
20400800	FURNISHED EXCAVATION	CU YD	90
> 25000200	SEEDING, CLASS 2	ACRE	0.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45
> 25100115	MULCH, METHOD 2	ACRE	0.5
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100
28000300	TEMPORARY DITCH CHECKS	EACH	4
> 28100207	STONE RIPRAP, CLASS A4	TON	340
28200200	FILTER FABRIC	SQ YD	474
> 40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	560
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CY YD	40
50300225	CONCRETE STRUCTURES	CU YD	18.6
50300280	CONCRETE ENCASEMENT	CU YD	2.0
> 50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1,560
50800105	REINFORCEMENT BARS	POUND	2,480
50900205	STEEL RAILING, TYPE S1	FOOT	130
51201400	FURNISHING STEEL PILES HP10X42	FOOT	140
51202305	DRIVING PILES	FOOT	140
51203400	TEST PILE STEEL HP10X42	EACH	1
51500100	NAME PLATES	EACH	1
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	158
> 67100100	MOBILIZATION	L SUM	1
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4

> SEE SPECIAL PROVISIONS

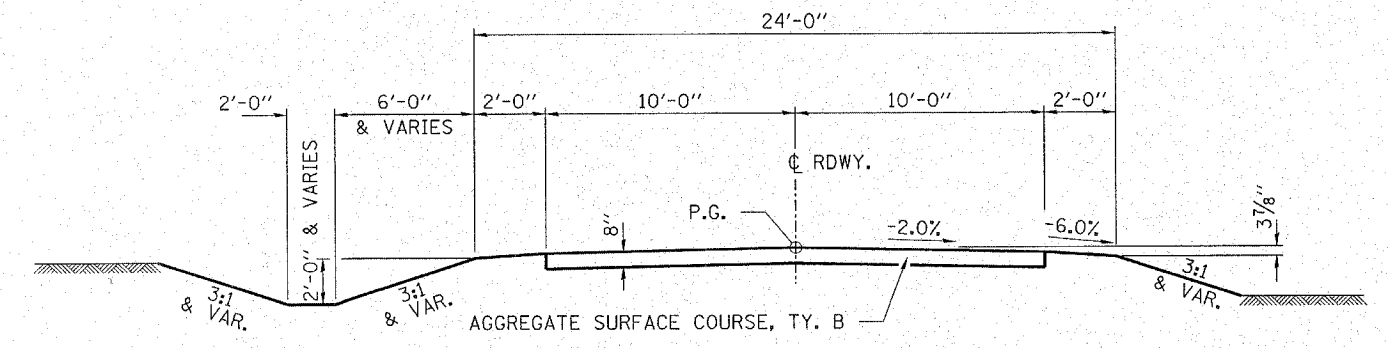
GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2007," THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- THE LOCATIONS OF EXISTING ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS UNTIL THE OWNER, HIS AGENT, OR A PROFESSIONAL LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE REVISION NUMBER INDICATED FOR THE STANDARDS LISTED IN THE INDEX OF SHEETS SHALL BE USED IN THE AGG. SURF. CSE. CONSTRUCTION OF THIS SECTION.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES
 AGGREGATE SURFACE CSE. 2.05 TON/CU YD
 STONE RIPRAP, CL. A4 1.75 TON/CU YD 0.70 TON/SO YD
- THE AREA TO BE SEEDED SHALL CONSIST OF ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.
 ESTIMATED QUANTITY = 0.5 ACRES.
- TREES WITHIN THE RIGHT-OF-WAY WHICH INTERFERE WITH CONSTRUCTION SHALL BE REMOVED ONLY AT THE DIRECTION OF THE ENGINEER.

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+72.82	156	25%	100%	117	130	-13
STA. 9+72.82 TO STA. 10+39.18	-	25%	100%	-	-	-
STA. 10+39.18 TO STA. 13+25	221	25%	100%	166	316	-150
CHANNEL EXCAVATION	(345)	25%	70%	181		181
ENTRANCES					105	-105
TOTAL	377			464	551	-87
USE:	380					90

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



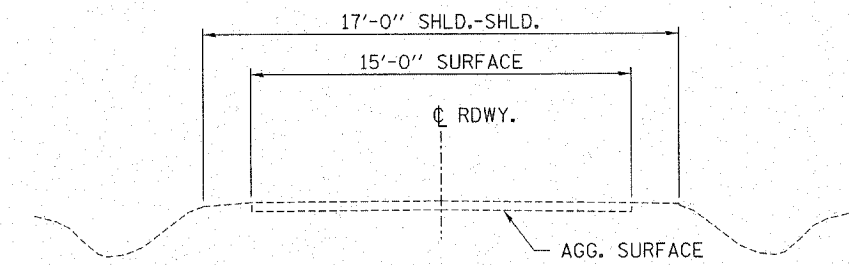
SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

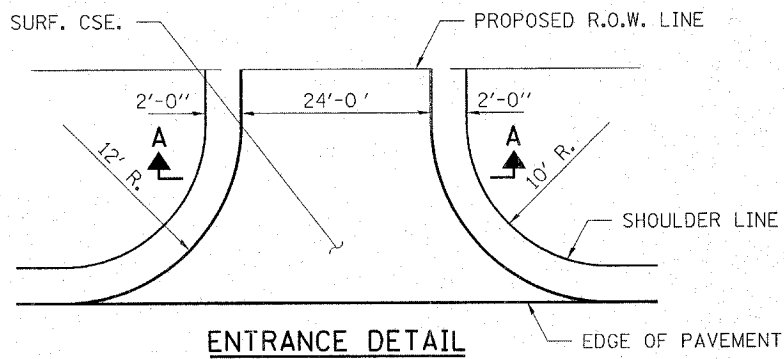
TYPICAL CROSS SECTION

STA. 8+25 TO 12+75

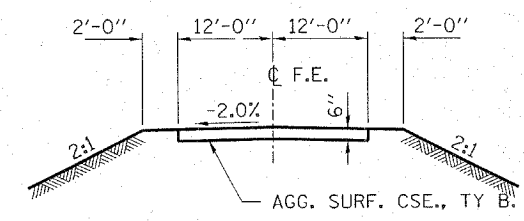
TRANSITION FROM THE PROPOSED ROADWAY TO THE EXISTING ROADWAY IS TO BE CONSTRUCTED FROM STA. 7+75 TO 8+25 AND STA. 12+75 TO 13+25. SEE SHEET 8 FOR TRANSITION AT BRIDGE.



EXISTING CROSS SECTION



ENTRANCE DETAIL



SECTION A-A

TREE REMOVAL (6-15 UNITS)	
LOCATION	UNIT
21' RT. STA. 9+76.9	14"
22' RT. STA. 10+26.1	6"
35' RT. STA. 9+82.0	12"
TOTAL	32"

TEMPORARY DITCH CHECKS	
LOCATION	UNIT
23' RT. STA. 9+60	1
27' LT. STA. 9+50	1
23' RT. STA. 10+60	1
22' LT. STA. 10+50	1
TOTAL	4

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HLR

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-87-0017-1 DATE: 12/18/06
 DESIGNED: J.W.F. CHECKED: S.W.M. DRAWN: D.T.M.

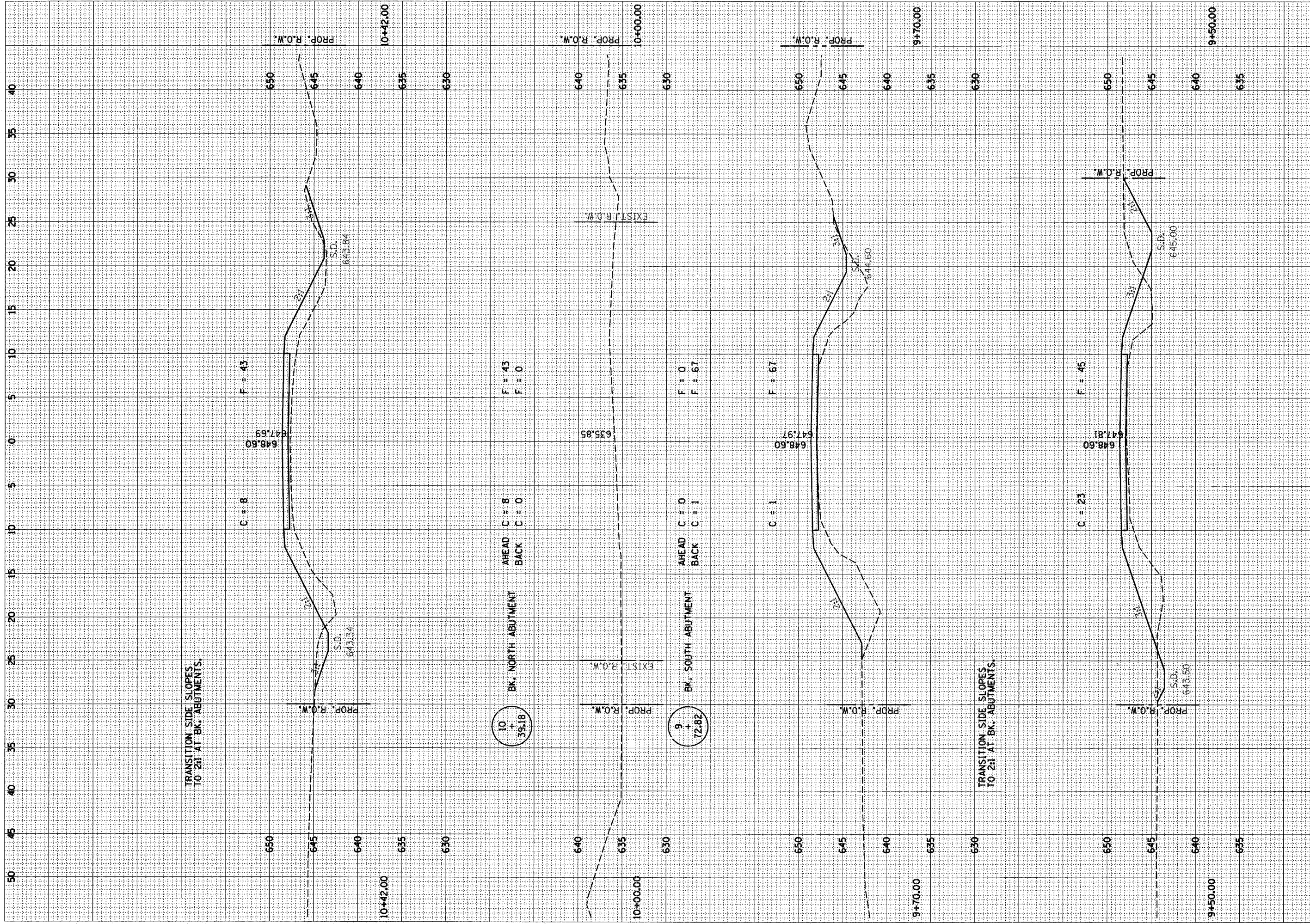
**SUMMARY OF QUANTITIES
AND TYPICAL SECTIONS**

SECTION 06-19116-00-BR

RURAL ROAD DISTRICT
 SHELBY COUNTY

NO. AREAS CHECKED

NO. AREAS CHECKED



T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	06-19116-00-BR	SHELBY	12	5

FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.
954		954

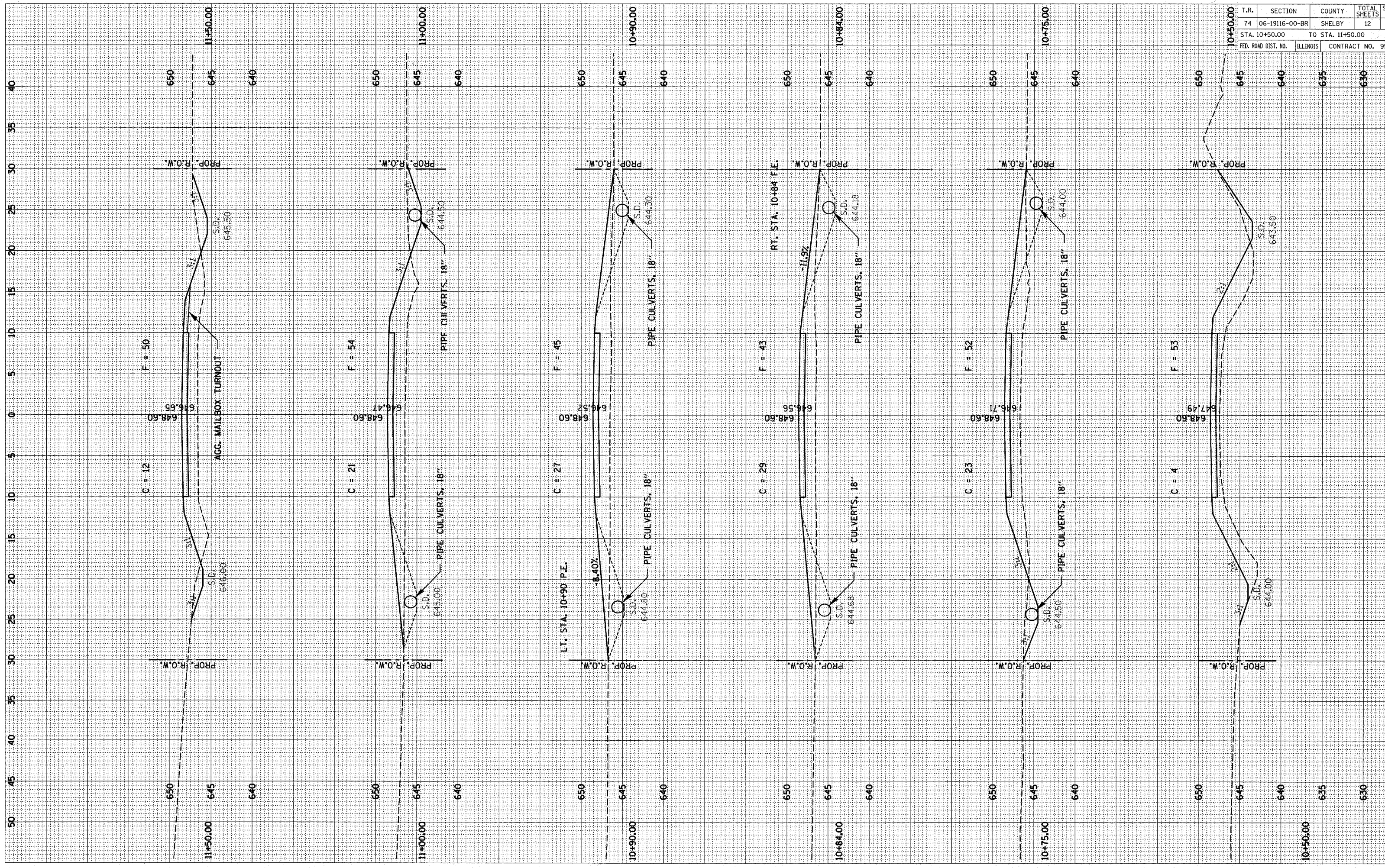
STA.	TO STA.
9+34.00	10+42.00

RT. STA.	F.E.
9+34	25

PROP. R.O.W.	EXIST. R.O.W.	ELEVATION
9+34.00	9+34.00	647.71
9+34.00	9+34.00	648.60
9+34.00	9+34.00	645.32
9+34.00	9+34.00	643.98
9+50.00	9+50.00	647.81
9+50.00	9+50.00	648.60
9+50.00	9+50.00	645.00
9+50.00	9+50.00	644.60
9+70.00	9+70.00	647.97
9+70.00	9+70.00	648.60
9+70.00	9+70.00	644.60
9+70.00	9+70.00	635.85
10+00.00	10+00.00	647.69
10+00.00	10+00.00	648.60
10+00.00	10+00.00	645.84
10+00.00	10+00.00	643.34
10+42.00	10+42.00	647.69
10+42.00	10+42.00	648.60
10+42.00	10+42.00	645.84
10+42.00	10+42.00	643.34

NOTE BOOK TEMPLATE
AREAS CHECKED

NOTE BOOK TEMPLATE
AREAS CHECKED

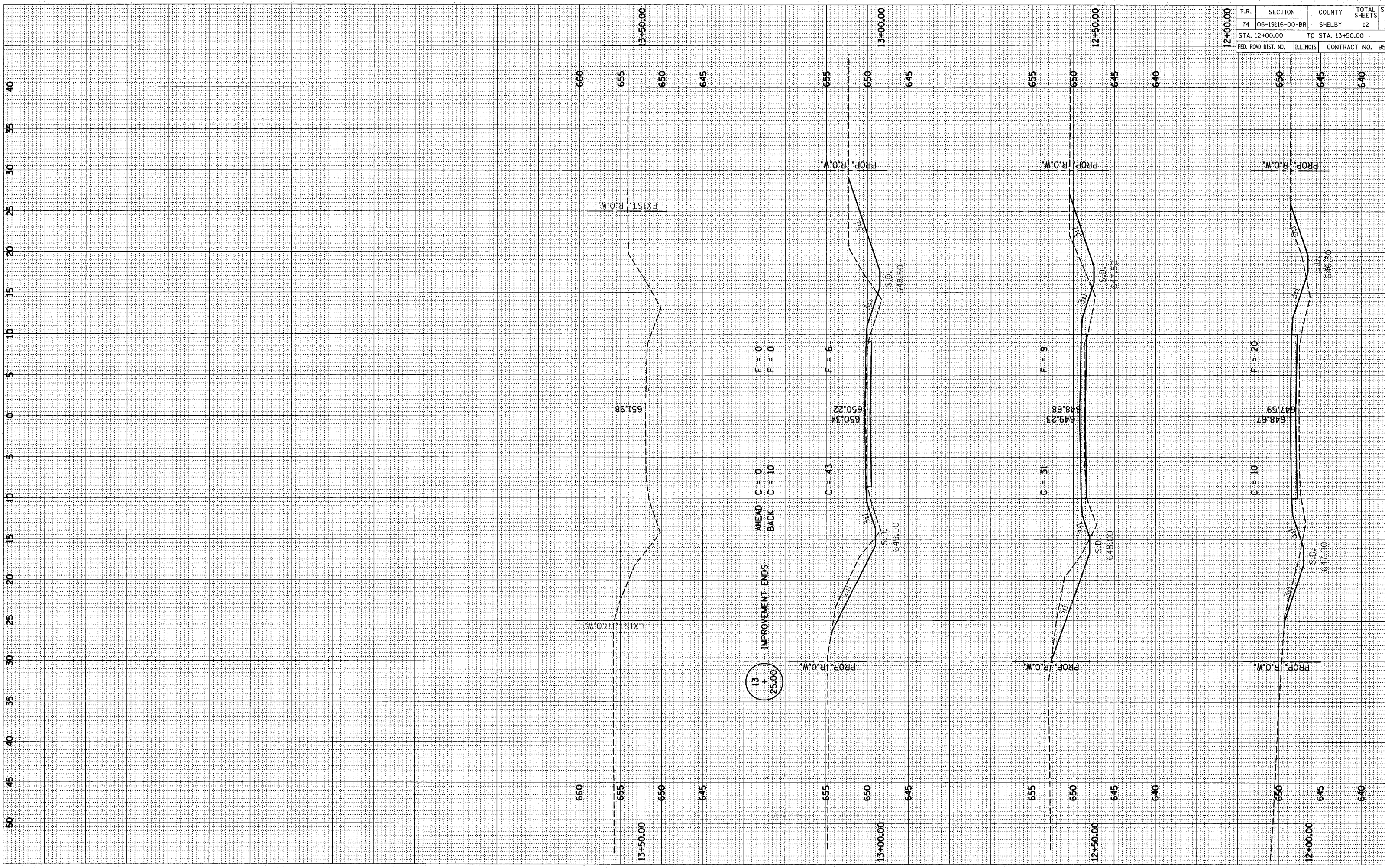


T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	06-19116-00-BR	SHELBY	12	6

STA. 10+50.00 TO STA. 11+50.00
FED. ROAD DIST. NO. ILLINOIS CONTRACT NO. 954

NOTE BOOK NO. TEMPLATE AREAS CHECKED

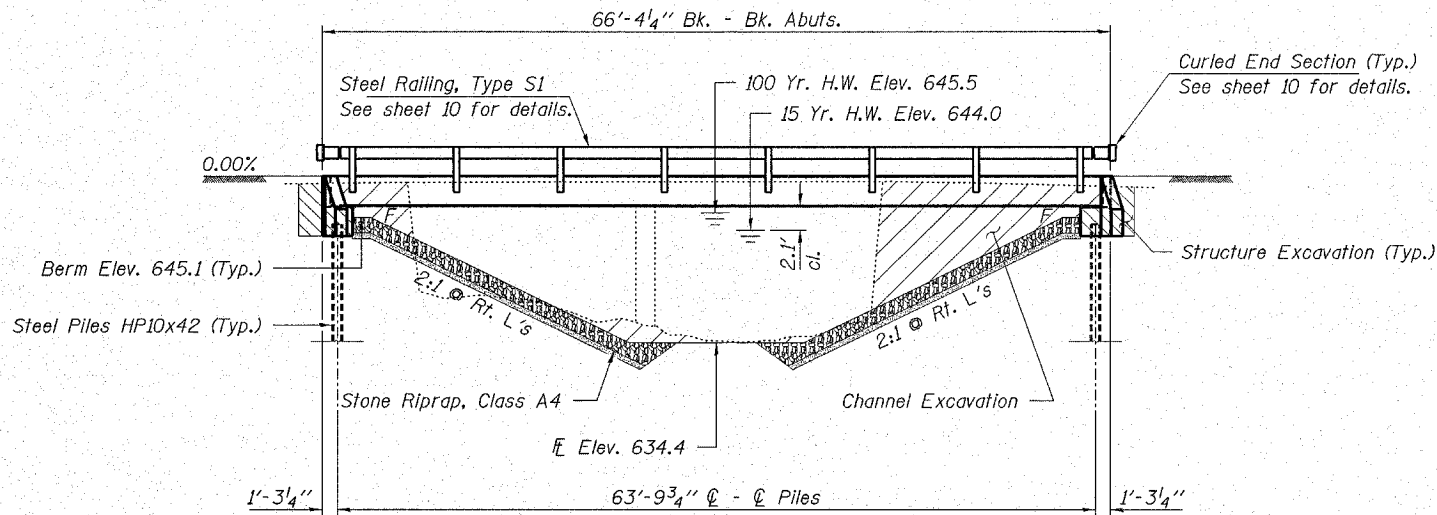
NOTE BOOK NO. TEMPLATE AREAS CHECKED



T.R.	SECTION	COUNTY	TOTAL SHEETS	SHE NO.
74	06-19116-00-BR	SHELBY	12	7
STA. 12+00.00		TO STA. 13+50.00		
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 9545	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS
T.R. 74	06-19116-00-BR	SHELBY	12
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 95499



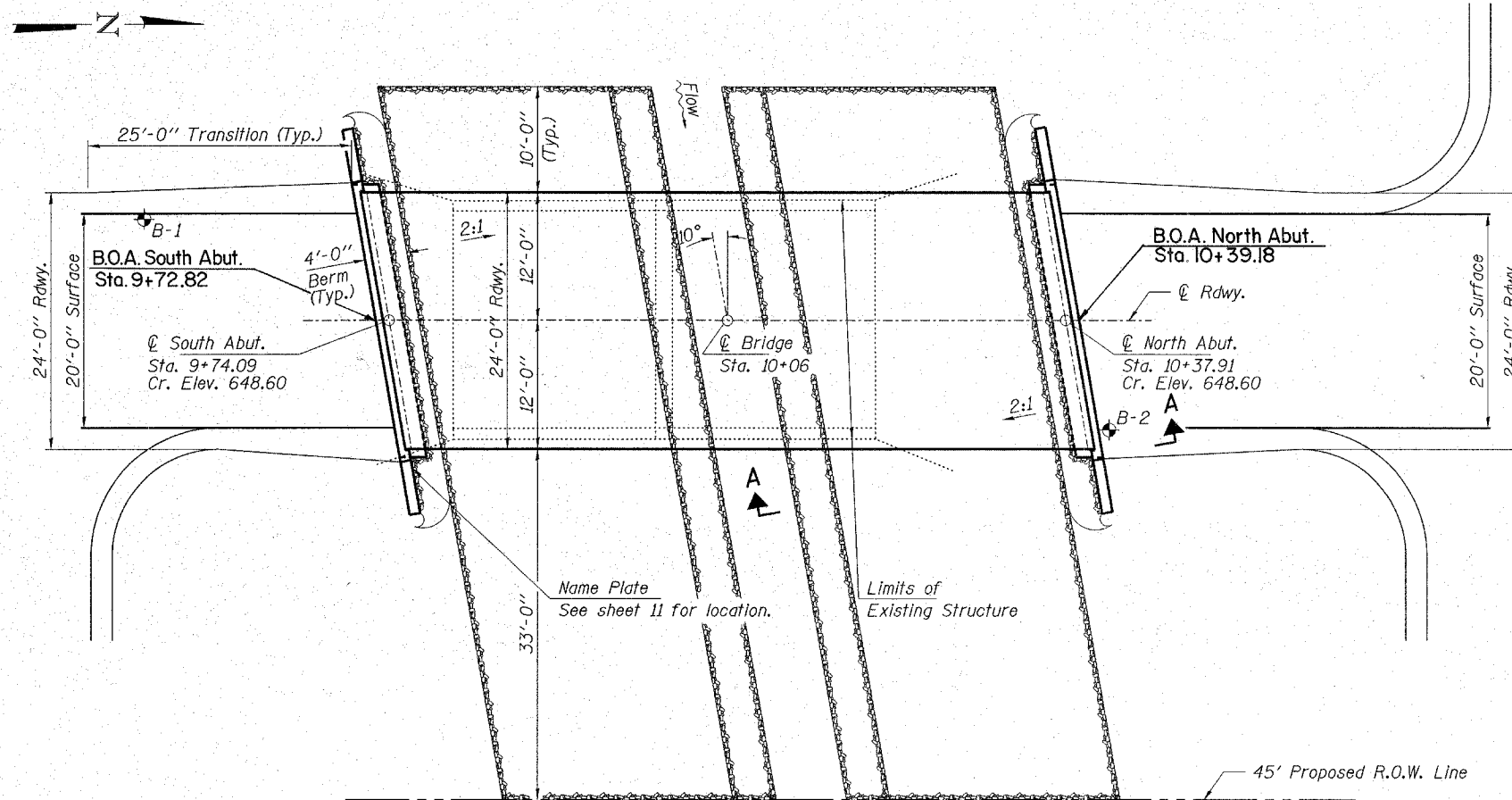
ELEVATION

GENERAL NOTES

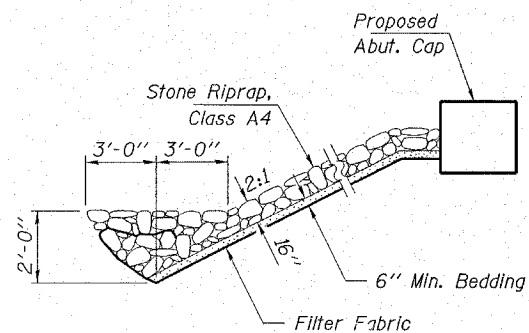
Layout of riprap may be varied in the field to suit ground conditions as directed by the Engineer.
 The contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at the South Abutment or approved by the Engineer before ordering the remainder of the piles.
 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 12 for Borings.

MUD CREEK
 BUILT 200_ BY
 SHELBY COUNTY
 SEC. 06-19116-00-BR
 F.A. PROJ. BROS-173(147)
 LOADING HS 20
 STR. NO. 087-3556

NAME PLATE
 See Std. 515001

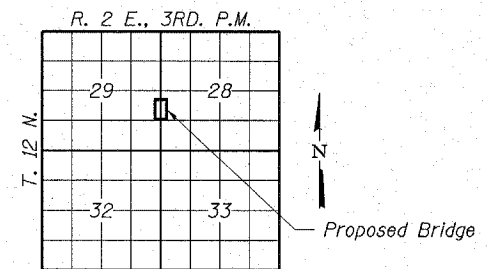


PLAN



SECTION A-A

Note: See Special Provisions for Stone Riprap, Class A4.



LOCATION SKETCH

DESIGN STRESSES

FIELD UNITS

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

PRECAST PRESTRESSED UNITS

f'c = 5,000 psi
 f'ci = 4,000 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.
 25#/Sq. Ft. included in dead load for future wearing surface.

SEISMIC DATA

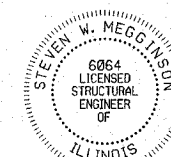
Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.06g
 Site Coefficient (S) = 1.2

WATERWAY INFORMATION

Drainage Area = 2.5 Sq. Mi.		Low Grade Elev. 648.6 @ Sta. 10+06							
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	15	770	290	300	644.0	0.6	0.0	644.6	644.0
Base	100	1,240	340	380	645.5	0.5	0.0	646.0	645.5
Max. Calc.	500	1,630	370	410	646.3	0.5	0.3	646.8	646.3

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. Meggins, 12-18-06
 ILLINOIS STRUCTURAL NO. 6064



Expires 11-30-08

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu. Yd.			40
Stone Riprap, Class A4	Ton			340
Filter Fabric	Sq. Yd.			474
Concrete Structures	Cu. Yd.		18.6	18.6
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1,560		1,560
Reinforcement Bars	Pound		2,480	2,480
Steel Railing, Type S1	Foot	130		130
Steel Piles HP10x42	Foot		140	140
Test Pile Steel HP10x42	Each		1	1
Concrete Encasement	Cu. Yd.		2.0	2.0
Name Plates	Each		1	1

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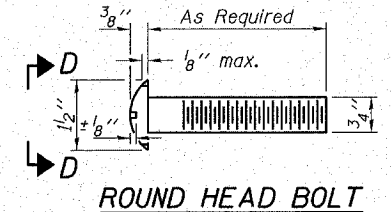
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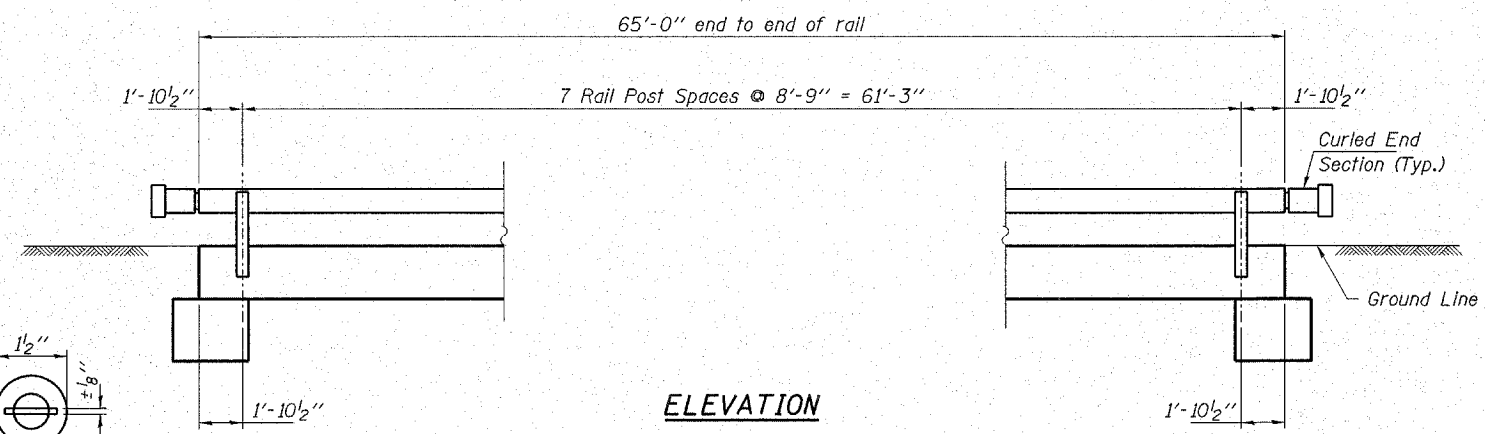
GENERAL PLAN AND ELEVATION
 SECTION 06-19116-00-BR
 RURAL ROAD DISTRICT
 SHELBY COUNTY
 STRUCTURE NO. 087-3556 / STATION 10+06

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS
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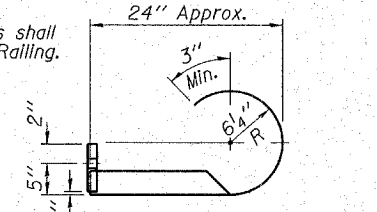


ROUND HEAD BOLT

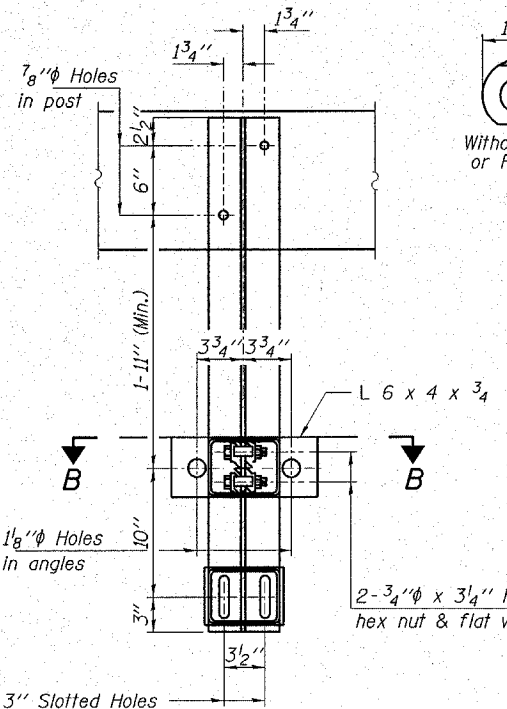


ELEVATION

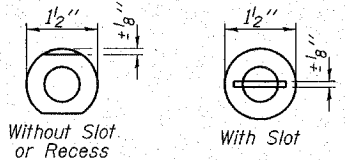
Note: Cost of curled end sections shall be included with the Steel Railing. (4 Required)



SECTION E-E CURLED END SECTION DETAILS



VIEW D-D

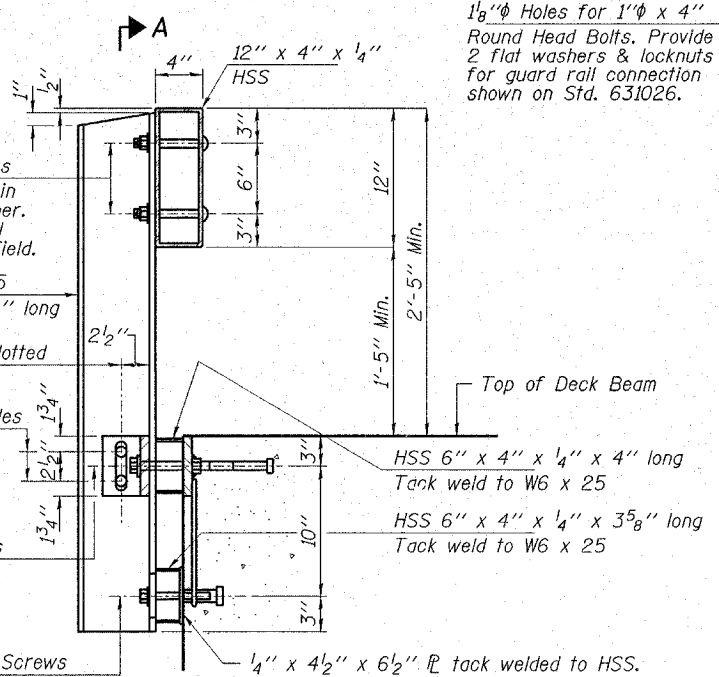


Without Slot or Recess
With Slot

2-3/4" φ x 6" Round Head Bolts (With slot or approved recess in head) with locknut & flat washer. 1/8" φ Holes in hollow structural section may be drilled in the field.

2-3/4" φ x 3/4" H.S. Bolts with hex nut & flat washers

SECTION A-A



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 2".

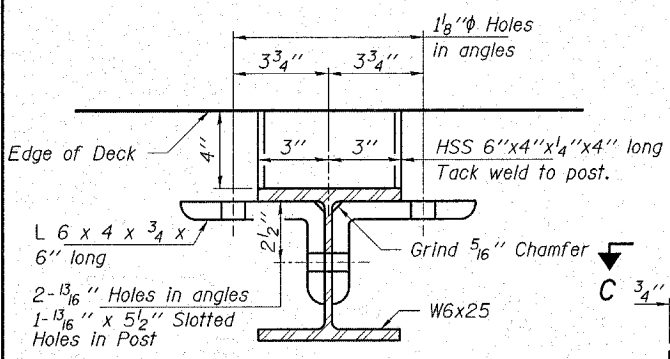
2-5/8" φ x 5 3/4" Cap Screws with flat washer

2-1" φ x 7 3/4" H.S. Bolts with flat washer

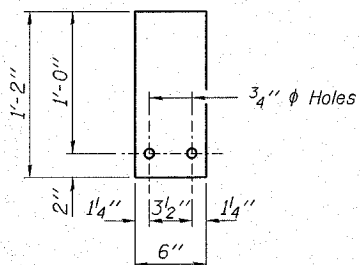
HSS 6" x 4" x 1/4" x 4" long Tack weld to W6 x 25

HSS 6" x 4" x 1/4" x 3 5/8" long Tack weld to W6 x 25

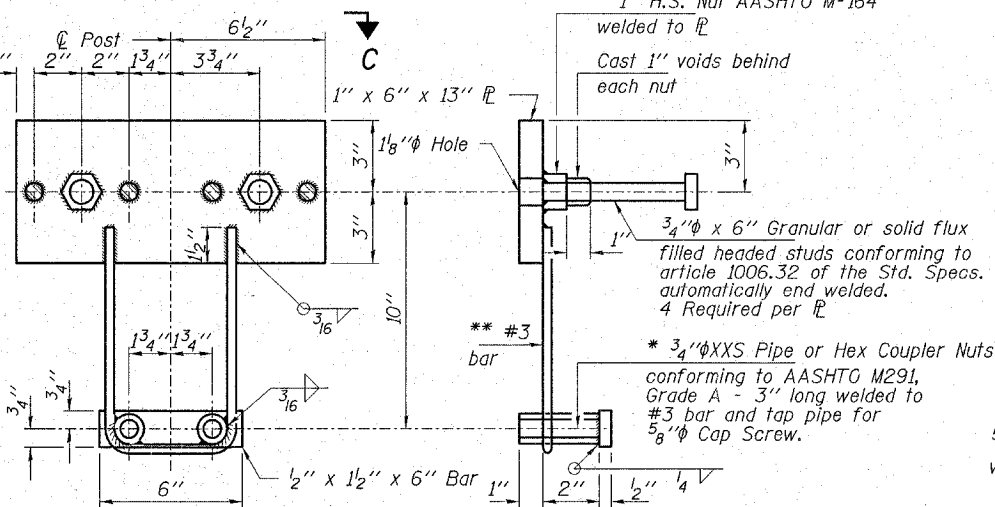
1/4" x 4 1/2" x 6 1/2" PL tack welded to HSS.



SECTION B-B

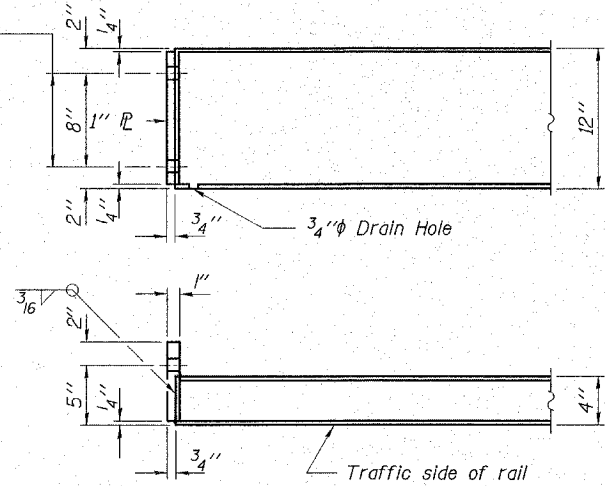


1/4" SHIM PLATE

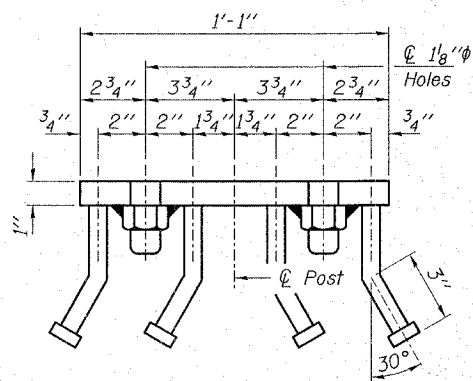


ANCHOR DEVICE

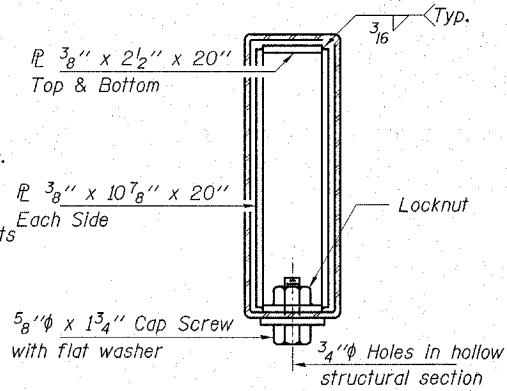
* Threaded areas shall be plugged or blocked off during casting of beam.



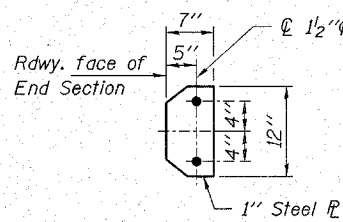
END OF RAIL DETAILS



VIEW C-C



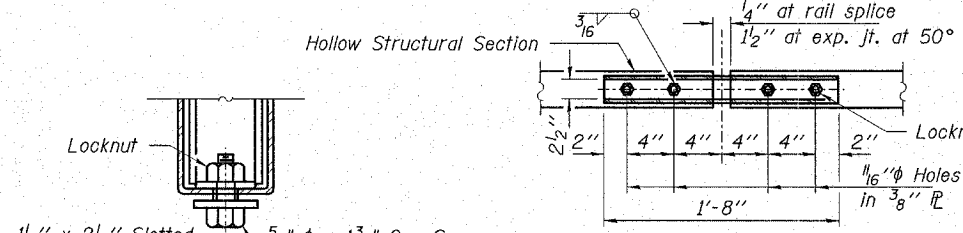
SECTION AT RAIL SPLICE



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

RAIL SPLICE CONNECTION AT EXPANSION JT.



PLAN-BOTT. SPLICE PL TYPICAL

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S1	Foot	130

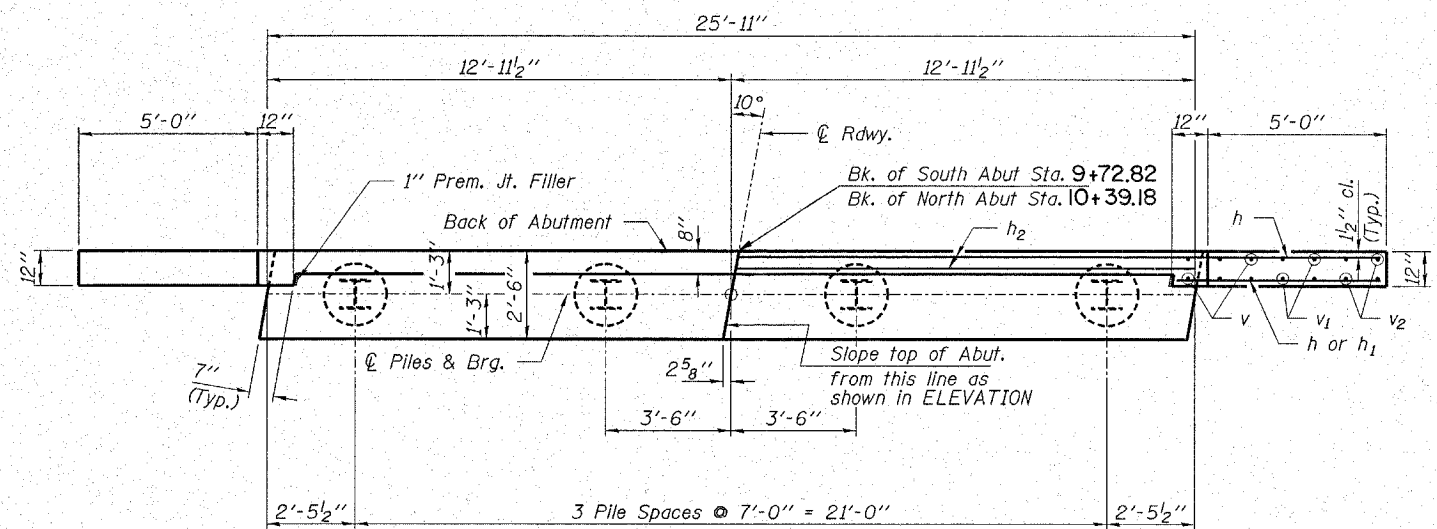
HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS

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

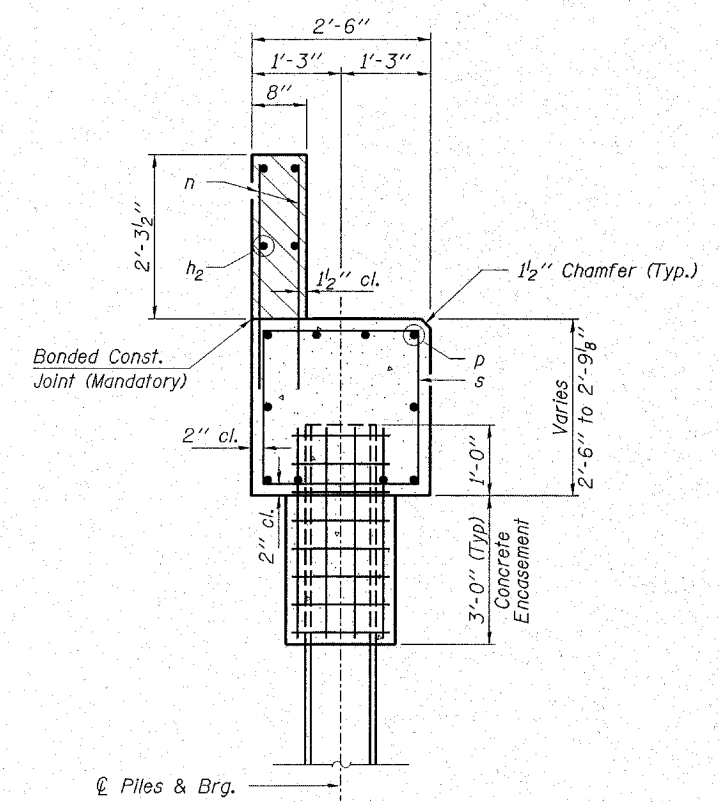
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-87-0017-1 DATE: 12/18/06
DESIGNED: J.W.F. CHECKED: S.W.M. DRAWN: D.T.M.

RAILING DETAILS
SECTION 06-19116-00-BR
RURAL ROAD DISTRICT
SHELBY COUNTY
STRUCTURE NO. 087-3556 / STATION 10+06

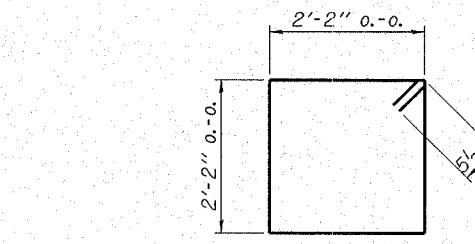


PLAN

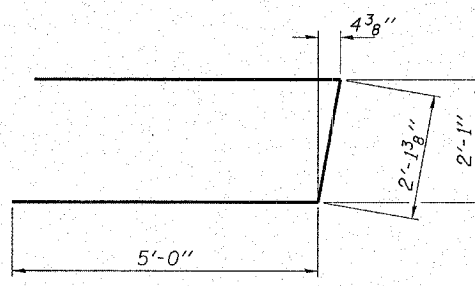


SECTION A-A

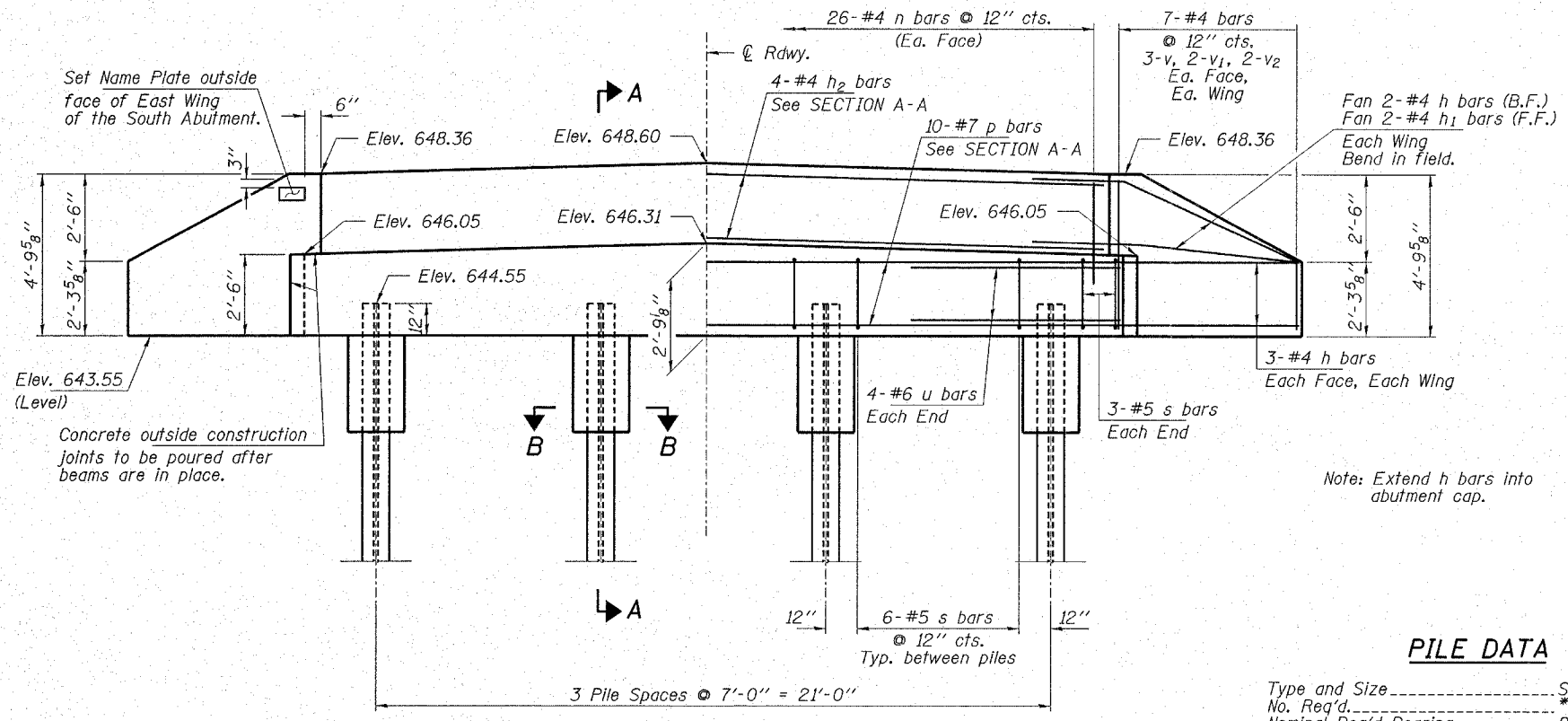
Hatched area to be poured after beams are in place.



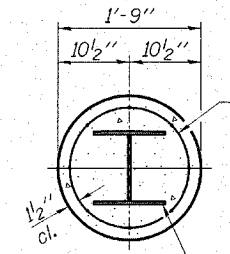
BAR s



BAR u



ELEVATION



SECTION B-B

Welded wire fabric 6 x 6-W4.0 x W4.0 weighing 58#/100 sq. ft. The cost of Excavation and Reinforcement is included in the cost of Concrete Encasement. Forms for Encasement may be omitted when soil conditions will permit.

BILL OF MATERIAL - 2 ABUTS.

BAR	NO.	SIZE	LENGTH	SHAPE
h	32	#4	6'-9"	—
h1	8	#4	5'-9"	—
h2	8	#4	26'-6"	—
n	104	#4	3'-2"	—
p	20	#7	25'-7"	—
s	48	#5	9'-7"	□
u	16	#6	12'-2"	—
v	24	#4	3'-11"	—
v1	16	#4	2'-11"	—
v2	16	#4	2'-1"	—

Material	Quantity	Unit
Concrete Structures	18.6	Cu. Yd.
Reinforcement Bars	2,480	Pound
Steel Piles HP10x42	140	Foot
Test Pile Steel HP10x42	1	Each
Name Plate	1	Each
Concrete Encasement	2.0	Cu. Yd.

PILE DATA

Type and Size _____ Steel HP10x42
 No. Req'd. _____ 8
 Nominal Req'd Bearing _____ 258 Kips/Pile
 Allowable Resistance Available _____ 86 Kips/Pile
 Est. Lengths _____ 20 Ft/Pile

Notes: The test piles 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 South Abutment.

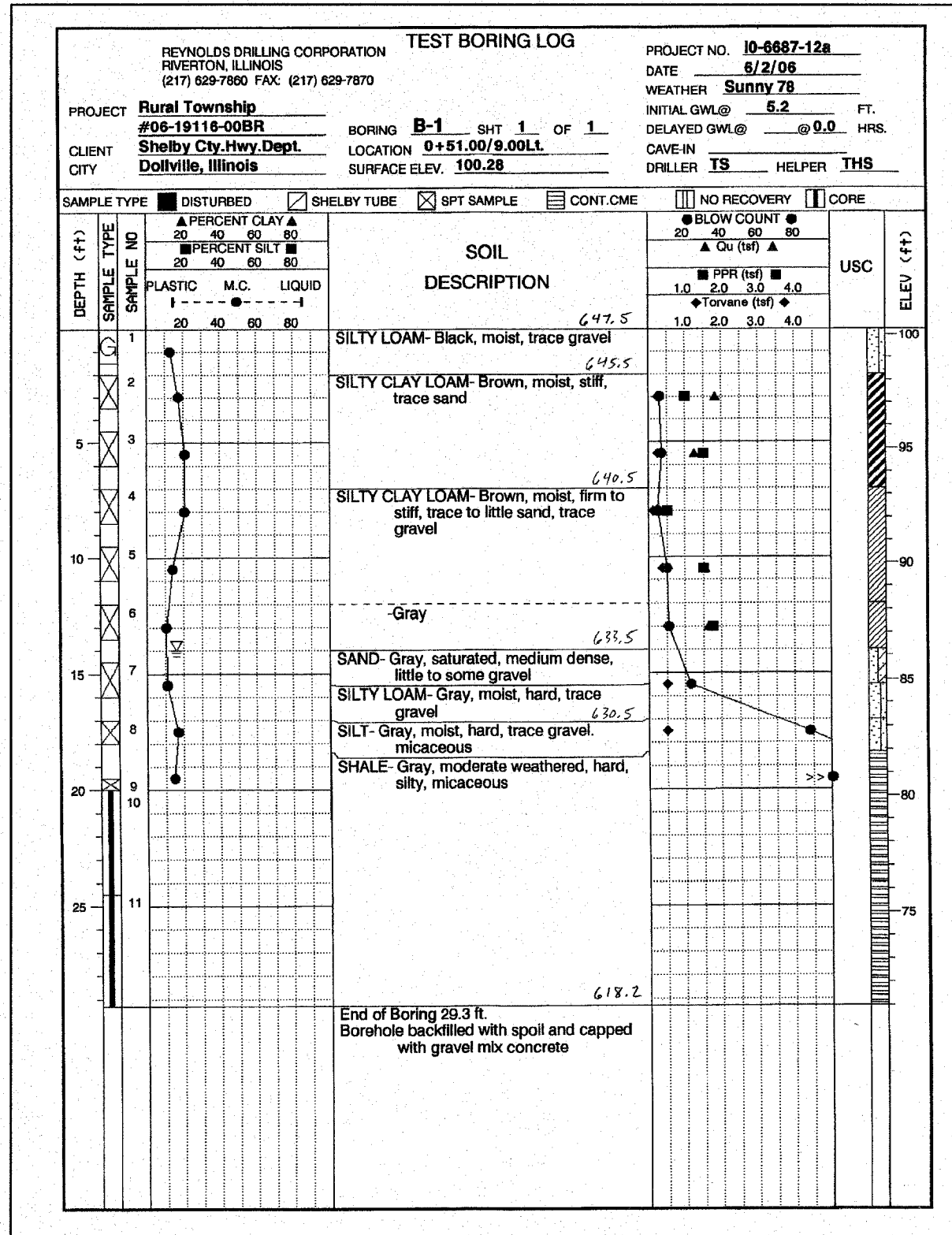
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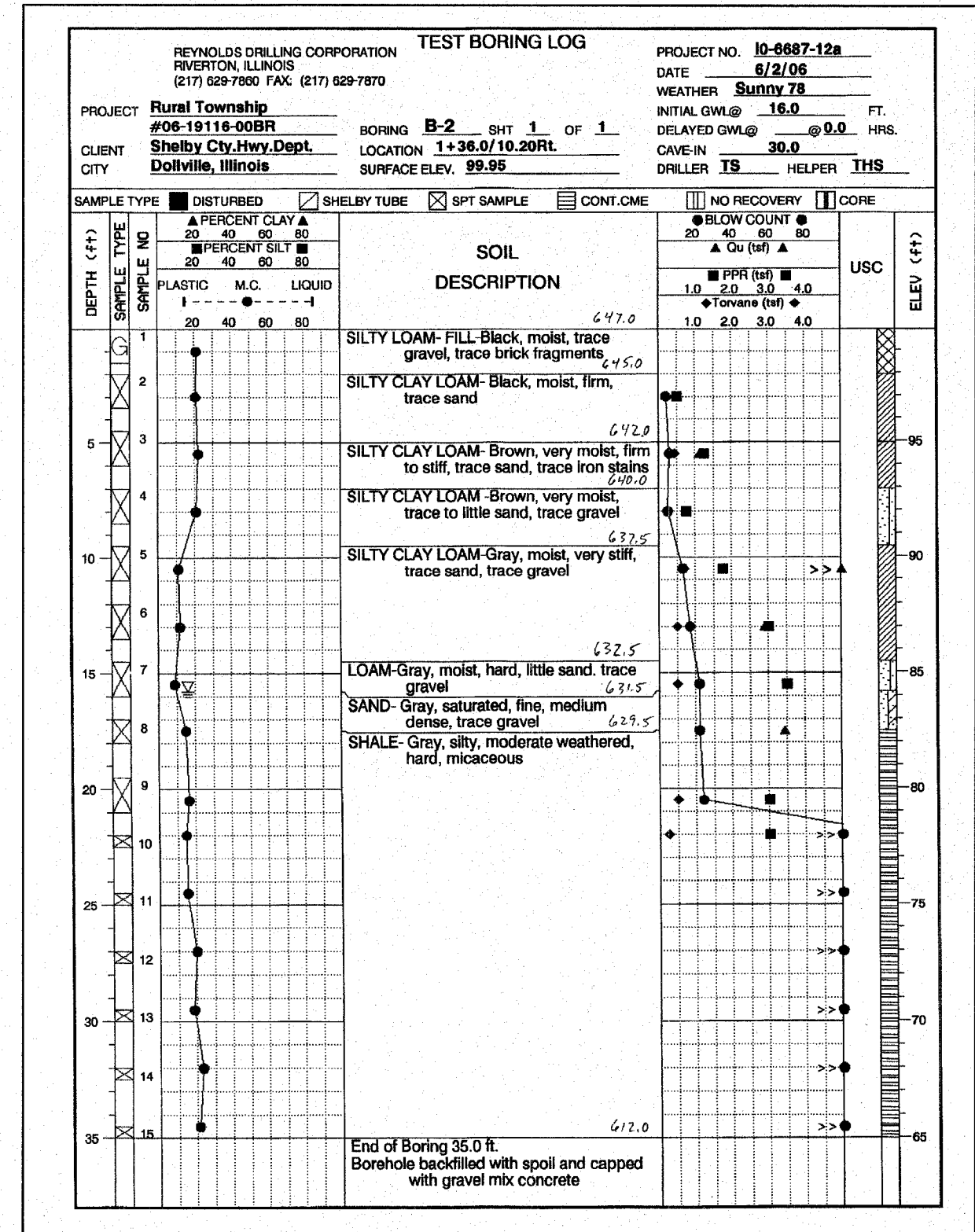
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-87-0017-1 DATE: 12/18/06
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ABUTMENTS
 SECTION 06-19116-00-BR
 RURAL ROAD DISTRICT
 SHELBY COUNTY
 STRUCTURE NO. 087-3556 / STATION 10+06



BORING 1



BORING 2

HAMPTON, LENZINI & RENWICK, INC.
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ELGIN • SPRINGFIELD

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BORINGS
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RURAL ROAD DISTRICT
SHELBY COUNTY
STRUCTURE NO. 087-3556 / STATION 10+06