

06-14-13 LETTING ITEM 176

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED  
SURFACE TRANSPORTATION  
BRIDGE PROGRAM**

ROUTE TR 57  
SECTION 06-03111-00-BR  
PROJECT BROS-0021(182)  
BUCKHART ROAD DISTRICT  
CHRISTIAN COUNTY

C-96-232-09  
R 2 W

| T.R. | SECTION        | COUNTY    | TOTAL SHEETS          | SHEET NO. |
|------|----------------|-----------|-----------------------|-----------|
| 57   | 06-03111-00-BR | CHRISTIAN | 17                    | 1         |
|      |                |           | ILLINOIS CONTRACT NO. | 93601     |



LOCATION OF SECTION INDICATED THUS: —

INDEX OF SHEETS:

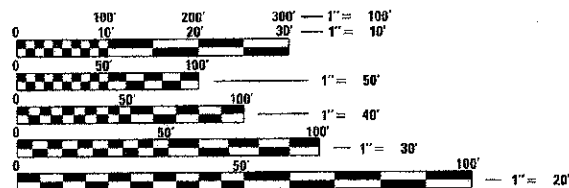
| SHEET NO. | TITLE   |
|-----------|---|
| 1         | COVER SHEET   |
| 2         | SUMMARY OF QUANTITIES, TYPICAL SECTIONS AND GENERAL NOTES |
| 3         | PLAN AND PROFILE SHEET                                    |
| 4-11      | BRIDGE PLANS  |
| 12-17     | STATION CROSS SECTIONS                                    |

STANDARDS

- 000001-06
- 280001-07
- 515001-03
- 666001-01
- 701901-02
- BLR 21-9

SHELBY ELECTRIC COOPERATIVE  
P.O. BOX 560  
ROUTE 128 & NORTH SIXTH STREET  
SHELBYVILLE, IL 62565

ILLINOIS CONSOLIDATED TELEPHONE  
121 SOUTH 17TH STREET  
MATTOON, IL 61938-3987



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER: GINA FUHRMANN  
PROJECT MANAGER: GINA FUHRMANN

CONTRACT NO. 93601

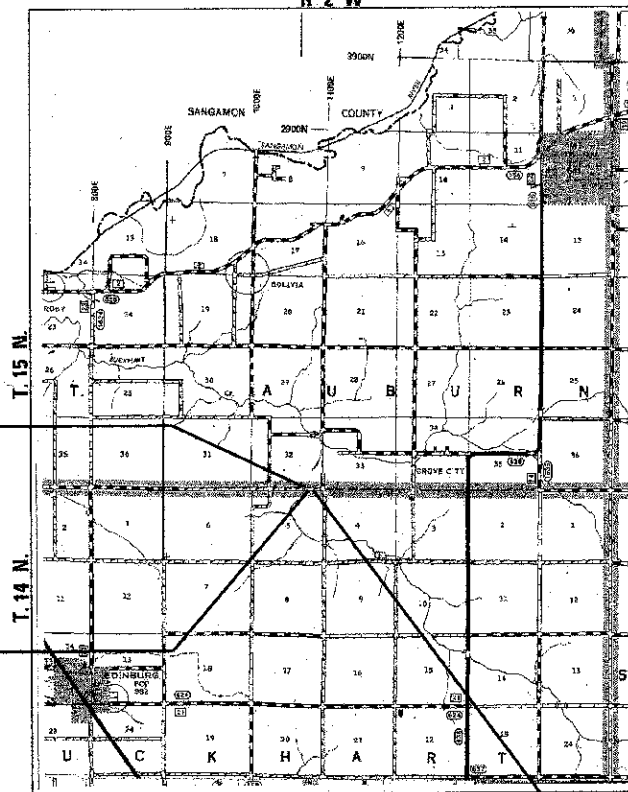
IMPROVEMENT BEGINS  
STA. 6 + 00.00

STA. 10 + 00.00 SPECIAL BRIDGE DESIGN  
PRECAST PRESTRESSED CONCRETE DECK  
BEAM BRIDGE; 1 SPAN AT 76'-5 1/4"; 24'-0"  
ROADWAY. SKEW = 30 DEGREES LT.

PROPOSED S.N. 011-3408  
REPLACES  
EXISTING S.N. 011-3065

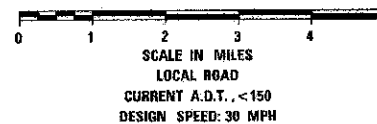


GROSS LENGTH = 950.00 FT. = 0.18 MILE  
NET LENGTH = 950.00 FT. = 0.18 MILE



3RD P.M.  
LOCATION PLAN

TOTAL LENGTH OF SECTION = 950.00 FEET = 0.180 MILES



SCALE IN MILES  
LOCAL ROAD  
CURRENT A.D.T. < 150  
DESIGN SPEED: 30 MPH

IMPROVEMENT ENDS  
STA. 15 + 50.00



*Gina M. Fuhrmann* 3/5/13  
ILLINOIS PROFESSIONAL NO. 062-052931  
EXPIRES 11-30-13

APPROVED 3/15 20 13  
*Cyril D. Fox*  
COUNTY ENGINEER

APPROVED 3/15 20 13  
*James J. Bowman*  
ROAD COMMISSIONER

PASSED March 18 20 13  
*Ron Duchambeau*  
DISTRICT SIX CONSTRUCTION ENGINEER

PASSED March 18 20 13  
*Thomas K. Martin*  
DISTRICT SIX ENGINEER OF  
LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review  
March 18 20 13  
*Ron Duchambeau*  
DEPUTY DIRECTOR OF HIGHWAYS,  
REGION FOUR ENGINEER  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

**GENERAL NOTES**

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.

REMOVAL OF THE EXISTING PAVEMENT (BITUMINOUS SURFACE AND AGGREGATE BASE), WHERE NECESSARY TO CONSTRUCT THE PROPOSED PAVEMENT, SHALL BE CONSIDERED EARTH EXCAVATION. SAWCUTTING THE EXISTING PAVEMENT, DEGRADING THE VACATED PORTION OF TR 57 AND GRADING THE OLD ROAD BED TO DRAIN SHALL BE INCLUDED IN THE COST FOR EARTH EXCAVATION.

THE LOCATIONS OF THE 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 ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND FIELD INSPECTION. SEE STANDARD SPECIFICATIONS.

THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT-OF-WAY AS DIRECTED BY THE ENGINEER.

SEEDING, CLASS 2 - 0.80 ACRES

PLAN ELEVATIONS REPRESENT ASSUMED DATUM

**APPLICATION RATES USED IN QUANTITY CALCULATIONS**

GRANULAR MATERIALS ..... 2.05 TONS/CU.YD.  
 STONE RIPRAP, CLASS A4 ..... 1.50 TONS/CU.YD.  
 TEMP. EROSION CONTROL SEEDING ..... 100 LB/PER AC.

**SUMMARY OF QUANTITIES**

| CODE NO.   | ITEM  | UNIT  | TOTAL |
|------------|---|-------|-------|
| 20200100   | EARTH EXCAVATION                                    | CU YD | 237   |
| 20300100   | CHANNEL EXCAVATION                                  | CU YD | 92    |
| 20400800   | FURNISHED EXCAVATION                                | CU YD | 6,233 |
| * X2501000 | SEEDING, CLASS 2 (SPECIAL)                          | ACRE  | 0.8   |
| 28000250   | TEMPORARY EROSION CONTROL SEEDING                   | POUND | 80    |
| 28000305   | TEMPORARY DITCH CHECKS                              | FOOT  | 63    |
| 28100207   | STONE RIPRAP, CLASS A4                              | TON   | 153   |
| 28200200   | FILTER FABRIC                                       | SQ YD | 230   |
| 35101400   | AGGREGATE BASE COURSE, TYPE B                       | TON   | 773   |
| 50105220   | PIPE CULVERT REMOVAL                                | FOOT  | 34    |
| 70101830   | TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21     | L SUM | 1     |
| * 50400605 | PRECAST PRESTRESSED CONCRETE DECK BEAMS (33' DEPTH) | SO FT | 1,780 |
| 50300225   | CONCRETE STRUCTURES                                 | CU YD | 28.5  |
| 50800105   | REINFORCEMENT BARS                                  | POUND | 3,010 |
| Δ 50900205 | STEEL RAILING TYPE S-1                              | FOOT  | 150   |
| 51500100   | NAME PLATES   | EACH  | 1     |
| 51201600   | FURNISHING STEEL PILES - HP 12X53                   | FOOT  | 585   |
| 51202305   | DRIVING PILES                                       | FOOT  | 585   |
| 51203600   | TEST PILES, STEEL - HP 12X53                        | EACH  | 1     |
| 50300280   | CONCRETE ENCASEMENT                                 | CU YD | 4.9   |
| 40300200   | BITUMINOUS MATERIAL (PRIME COAT)                    | TON   | 4     |
| 40300400   | BITUMINOUS MATERIALS (COVER & SEAL COATS)           | TON   | 6     |
| 40300500   | COVER COAT AGGREGATE                                | TON   | 44    |
| 40300600   | SEAL COAT AGGREGATE                                 | TON   | 22    |
| 50100100   | REMOVAL OF EXISTING STRUCTURES                      | EACH  | 1     |
| 58700300   | CONCRETE SEALER                                     | SQ FT | 351   |
| 66600105   | FURNISHING AND ERECTING RIGHT - OF - WAY MARKERS    | EACH  | 15    |
| 67100100   | MOBILIZATION  | L SUM | 1     |

\* SPECIAL PROVISION  
 Δ SPECIALTY ITEMS

CONSTRUCTION TYPE CODE: 001

**PIPE CULVERT REMOVAL**

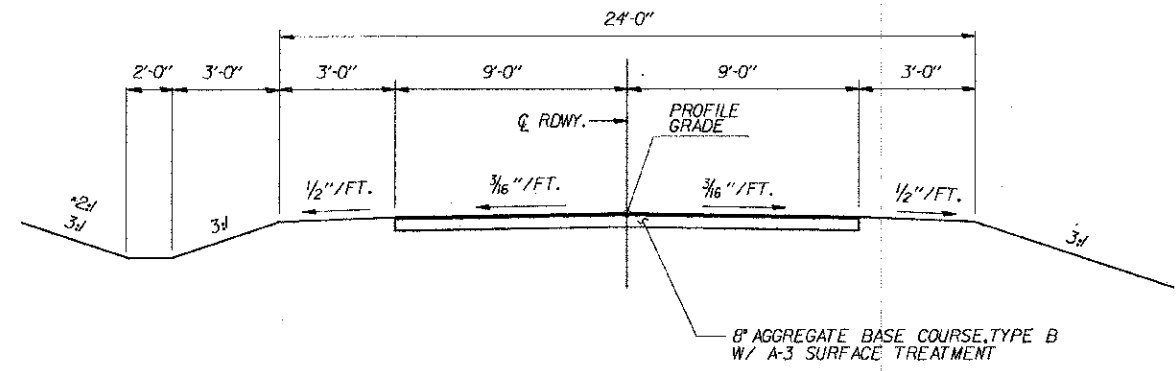
| STATION  | DIAMETER | LENGTH |
|----------|----------|--------|
| 9+41 RT. | 18" CMP  | 34 FT. |
| TOTAL    |          | 34 FT. |

**TEMPORARY DITCH CHECKS**

| STATION      | QUANTITY |
|--------------|----------|
| 7+00 LT & RT | 18 FEET  |
| 7+95 LT & RT | 18 FEET  |
| 12+25 RT     | 9 FEET   |
| 14+15 RT     | 9 FEET   |
| 14+40 LT     | 9 FEET   |
| TOTAL        | 63 FEET  |

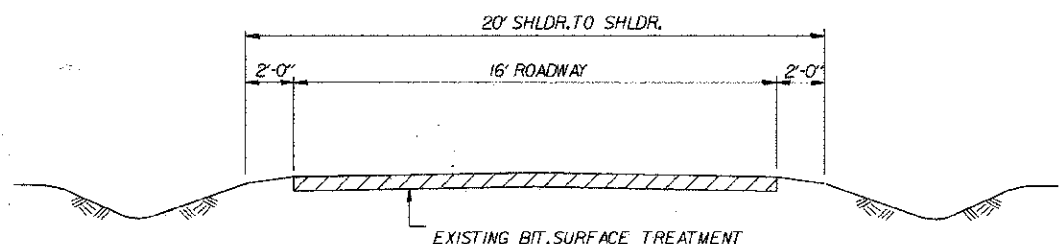
**EARTHWORK SCHEDULE**

| LOCATION                  | EARTH EXCAVATION (CUT) | EARTH EXCAVATION ADJUSTED FOR SHRINKAGE | EMBANKMENT | EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) |
|---------------------------|------------------------|---|------------|---|
|                           | (CU YD)                | (CU YD)                                 | (CU YD)    | (CU YD)                                     |
| STA. 06+00.00 TO 09+62.50 | 188                    | 141                                     | 3553       | -3412                                       |
| STA 10+37.50 TO 15+50.00  | 49                     | 37                                      | 2858       | -2821                                       |
| TOTAL                     | 237                    | 178                                     | 6411       | -6233                                       |



**PROPOSED TYPICAL CROSS SECTION**

STA. 6+00 TO STA. 15+50 - LT. & RT.



**TYPICAL EXISTING CROSS SECTION**

NOTE: THE EXISTING PAVEMENT TO BE REMOVED WILL NOT BE MEASURED FOR PAYMENT BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR "EARTH EXCAVATION."

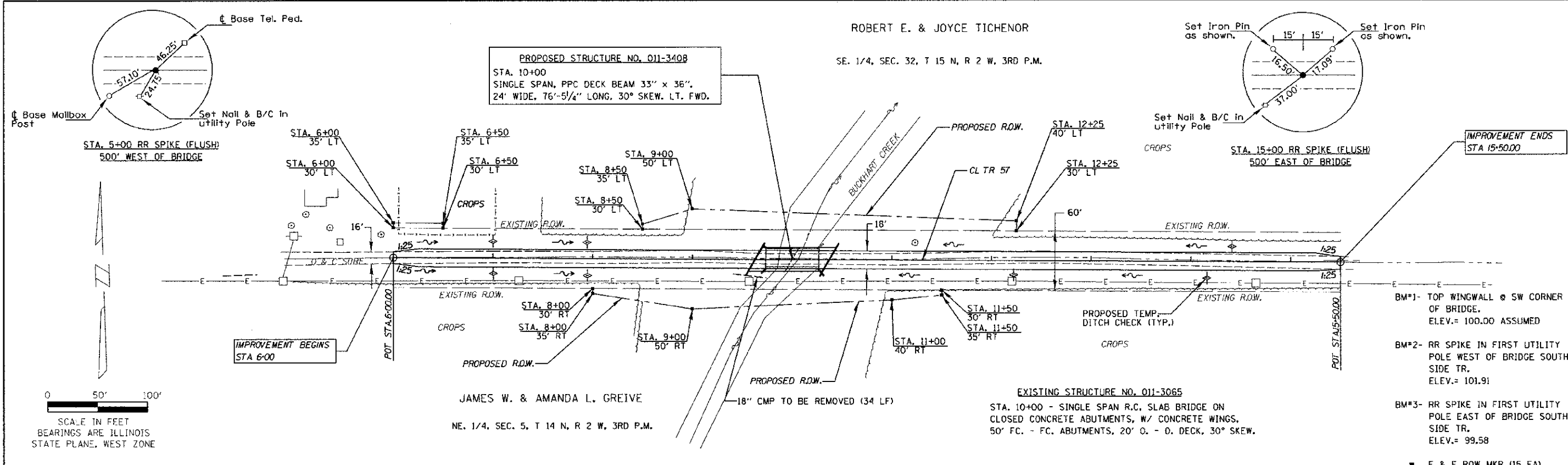


|              |            |           |
|--------------|------------|-----------|
| USER NAME :  | DESIGNED - | REVISED - |
| PLOT SCALE : | CHECKED -  | REVISED - |
| PLOT DATE :  | DRAWN -    | REVISED - |
|              | CHECKED -  | REVISED - |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

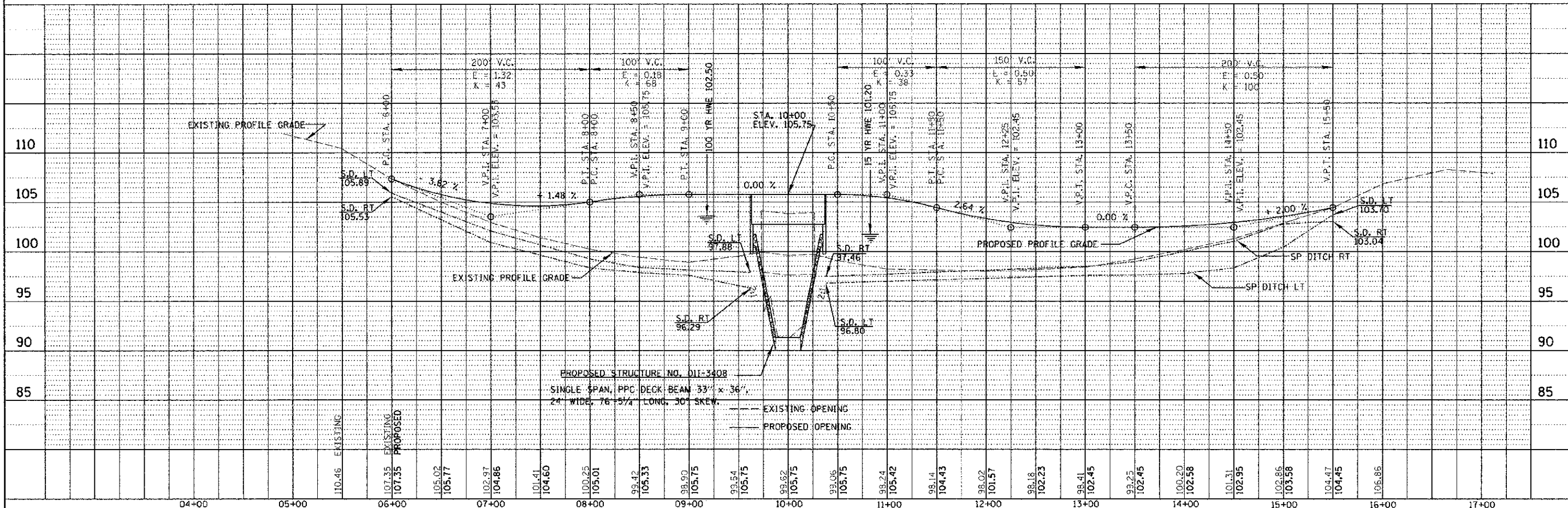
SUMMARY OF QUANTITIES, TYPICAL SECTIONS

| T.R.                   | SECTION        | COUNTY    | TOTAL SHEETS              | SHEET NO. |
|------------------------|----------------|-----------|---------------------------|-----------|
| 57                     | 06-03111-00-BR | CHRISTIAN | 17                        | 2         |
| CONTRACT NO. 9 8 6 0 1 |                |           | ILLINOIS FED. AID PROJECT |           |



|      |          |      |
|------|----------|------|
| PLAN | SURVEYED | DATE |
|      | ALIGNED  |      |
|      | NOTED    |      |
|      | FILED    |      |
|      | NO.      |      |

|         |          |      |
|---------|----------|------|
| PROFILE | SURVEYED | DATE |
|         | ALIGNED  |      |
|         | NOTED    |      |
|         | FILED    |      |
|         | NO.      |      |



|             |                    |            |           |   |   |                           |                |           |              |           |  |
|-------------|--------------------|------------|-----------|---|---|---------------------------|----------------|-----------|--------------|-----------|--|
| FILE NAME = | USER NAME = #USER# | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS</b><br><b>DEPARTMENT OF TRANSPORTATION</b> | <b>PLAN &amp; PROFILE</b><br>SCALE: SHEET NO. OF SHEETS STA. 6+00 TO STA. 15+50 | F.A. RTE.                 | SECTION        | COUNTY    | TOTAL SHEETS | SHEET NO. |  |
| #FILE#      |                    | DRAWN -    | REVISED - |   |   | TR 57                     | 06-03110-00-BR | CHRISTIAN | 17           | 3         |  |
|             |                    | CHECKED -  | REVISED - |   |   | CONTRACT NO. 93601        |                |           |              |           |  |
|             |                    | DATE -     | REVISED - |   |   | ILLINOIS FED. AID PROJECT |                |           |              |           |  |

BM#1- TOP WINGWALL @ SW CORNER OF BRIDGE.  
ELEV. = 100.00 ASSUMED

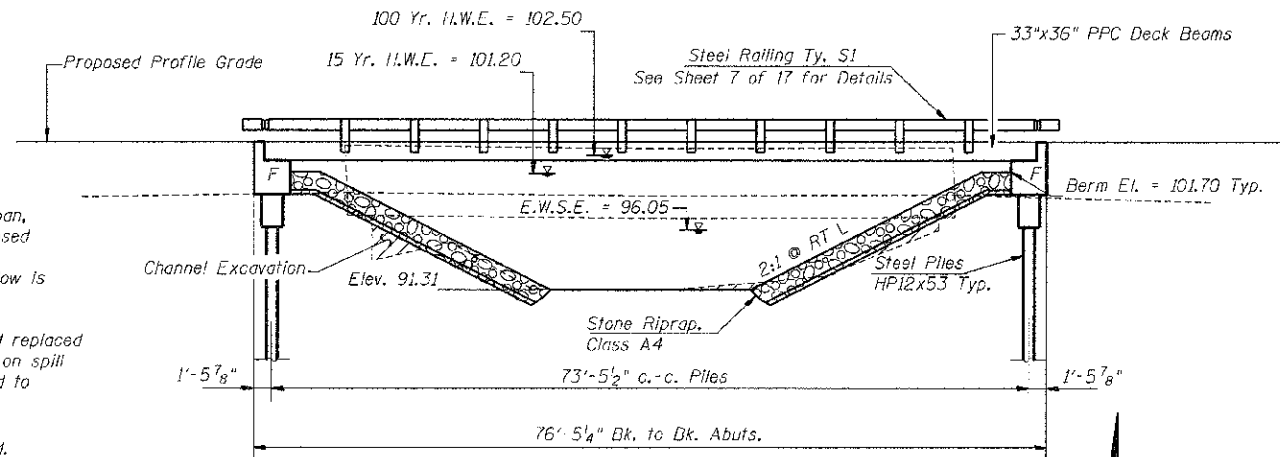
BM#2- RR SPIKE IN FIRST UTILITY POLE WEST OF BRIDGE SOUTH SIDE TR.  
ELEV. = 101.91

BM#3- RR SPIKE IN FIRST UTILITY POLE EAST OF BRIDGE SOUTH SIDE TR.  
ELEV. = 99.58

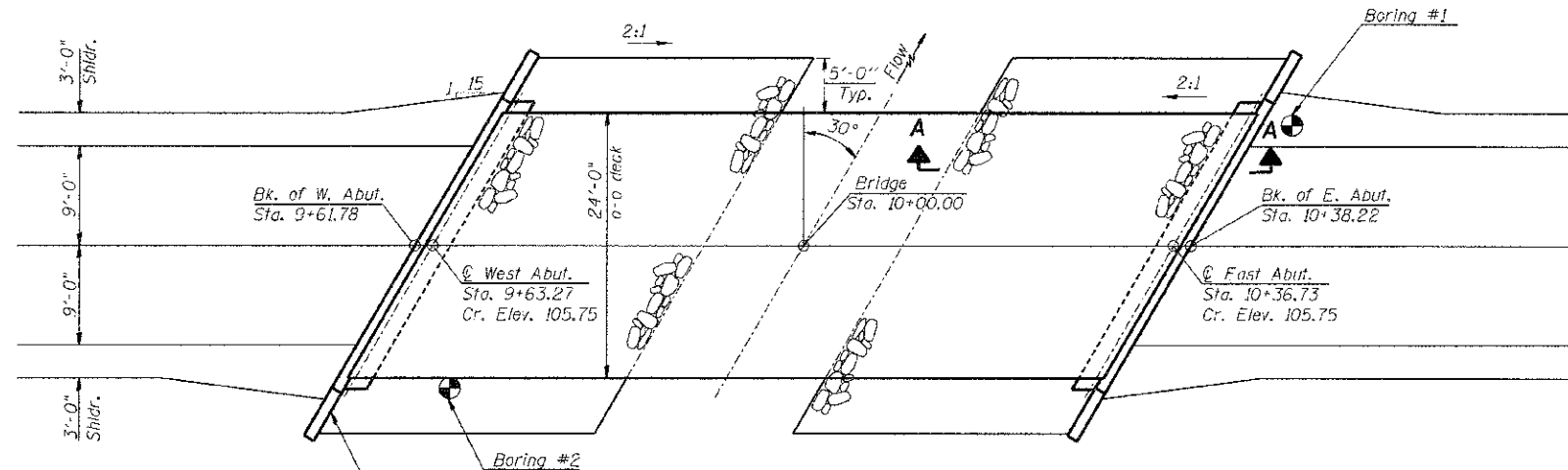
Existing structure S.N. 011-3055 single span, concrete deck beam, the structure has closed abutments with wingwalls and a 30° skew. The face to face opening normal to the flow is ±50' and has a roadway width of 20'-0".

The existing structure will be removed and replaced with a single span PPC deck beam bridge on spill through abutments. The road will be closed to thru-traffic during construction.

Estimated Concrete Quantity = 85.6 Cu. Yd.  
Estimated Structural Steel Quantity = 11,315.3 Lbs.



**ELEVATION**



**PLAN**

| DESIGN SCOUR ELEVATION |          |
|------------------------|----------|
| W. Abut.               | E. Abut. |
| 99.70                  | 99.70    |

**WATERWAY INFORMATION**

|                                |               |
|--------------------------------|---------------|
| Drainage Area                  | 36.89 Sq. Mi. |
| Required Opening (15 Yr.)      | 420 Sq. Ft.   |
| Provided Opening               | 420 Sq. Ft.   |
| Present Opening                | 308 Sq. Ft.   |
| Design Discharge (15 Yr.)      | 2,523 C.F.S.  |
| Created Head (15 Yr.)          | 0.50 Ft.      |
| 100 Year Discharge             | 4,140 C.F.S.  |
| 100 Yr. Created Head           | 1.00 Ft.      |
| 15 Yr. Design High Water Elev. | 101.20        |
| 100 Yr. High Water Elev.       | 102.50        |

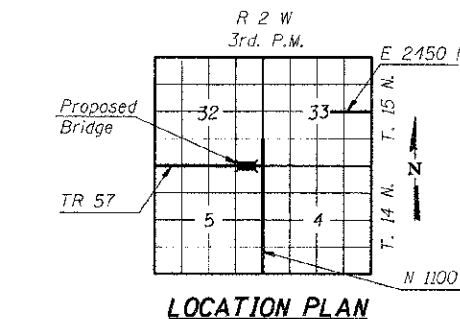
**DESIGN STRESSES**

$f_c = 6,000$  p.s.i. Prestressed Beams  
 $f_{ci} = 5,000$  p.s.i. Prestressed Beams  
 $f_s = 270,000$  p.s.i.  $\frac{1}{2}$ "  $\phi$  Low Relaxation Strands  
 $f_{sl} = 201,960$  p.s.i.  $\frac{1}{2}$ "  $\phi$  Low Relaxation Strands  
 $f'_c = 3,500$  p.s.i. Concrete Substructure -- Field Units  
 $f_y = 60,000$  p.s.i. Reinf. Bars -- Field Units

LOADING: HL-93  
 Design Specifications: 2010 AASHTO & Interims  
 50#/Sq. Ft. included in dead load for future wearing surface.

**CONSTRUCTION PERMITS**

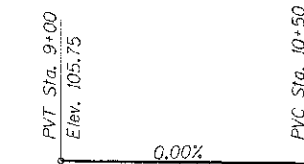
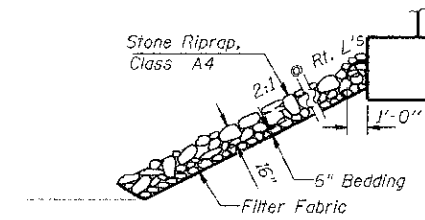
THE REQUIREMENTS OF THE IDNR - OFFICE OF WATER RESOURCES HAVE BEEN FULFILLED IN ACCORDANCE WITH STATEWIDE PERMIT NO. 2.



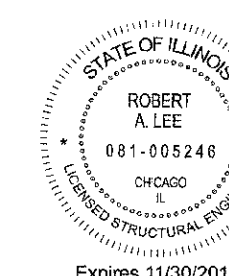
**LOCATION PLAN**

SEISMIC DATA:  
 Seismic Performance Zone (SP2) = 2  
 Design Spectral Acceleration at 1.0 sec. ( $S_{D1}$ ) = 0.156  
 Design Spectral Acceleration at 0.2 sec. ( $S_{D5}$ ) = 0.304  
 Soil Site Class = D

**STONE RIPRAP ANCHOR DETAIL Section A-A**



**PROFILE GRADE**



**GENERAL NOTES**

Reinforcement bars shall conform to the requirements of ASTM A705 Grade 60.

The Contractor shall drive one steel test pile in a permanent location at the West Abutment as directed by the Engineer, before ordering the remainder of piles. Test piles shall be driven to 110% of the nominal required bearing.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer. Structure excavation will not be paid for as a separate item but shall be considered as included in the contract unit price for the class of concrete involved.

The steel H piles shall be according to AASHTO M270 Grade 50.

Concrete Sealer shall be applied to the designated areas of the abutments.

BUCKHART CREEK  
 BUILT 201\_ BY  
 BUCKHART ROAD DISTRICT  
 CHRISTIAN COUNTY  
 SEC. 06-03111-00-BR  
 STATION 10+00.00  
 STR. NO. 011-3408 LOADING HL- 93

**LETTERING FOR NAME PLATE**

See Std. 515001

"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'."

Robert A. Lee 3/05/13

ILLINOIS STRUCTURAL NO. 081-005246 Expires 11/30/14

**TOTAL BILL OF MATERIAL**

| ITEM  | UNIT    | SUPER | SUB   | TOTAL |
|---|---------|-------|-------|-------|
| Precast Prestressed Concrete Deck Beams (33" Depth) | Sq. Ft. | 1,780 |       | 1,780 |
| Concrete Structures                                 | Cu. Yd. |       | 28.5  | 28.5  |
| Reinforcement Bars                                  | Pound   |       | 3,010 | 3,010 |
| Steel Railing, Type S-1                             | Foot    | 150   |       | 150   |
| Name Plates   | Each    |       | 1     | 1     |
| Furnishing Steel Piles HP12x53                      | Foot    |       | 585   | 585   |
| Driving Piles                                       | Foot    |       | 585   | 585   |
| Test Piles, Steel HP12x53                           | Each    |       | 1     | 1     |
| Stone Riprap, Class A4                              | Ton     |       | 153   | 153   |
| Filter Fabric                                       | Sq. Yd. |       | 230   | 230   |
| Channel Excavation                                  | Cu. Yd. |       | 92    | 92    |
| Concrete Encasement                                 | Cu. Yd. |       | 4.9   | 4.9   |
| Concrete Sealer                                     | Sq. Ft. |       | 351   | 351   |
| Removal of Existing Structures                      | Each    |       |       | 1     |



|                |            |           |
|----------------|------------|-----------|
| USER NAME =    | DESIGNED - | REVISED - |
| P.-DT. SCA-E = | CHECKED -  | REVISED - |
| P.-DT. DATE =  | DRAWN -    | REVISED - |
|                | CHECKED -  | REVISED - |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN  
 SN 011-3408

Sheet No. 1 of 8 sheets.

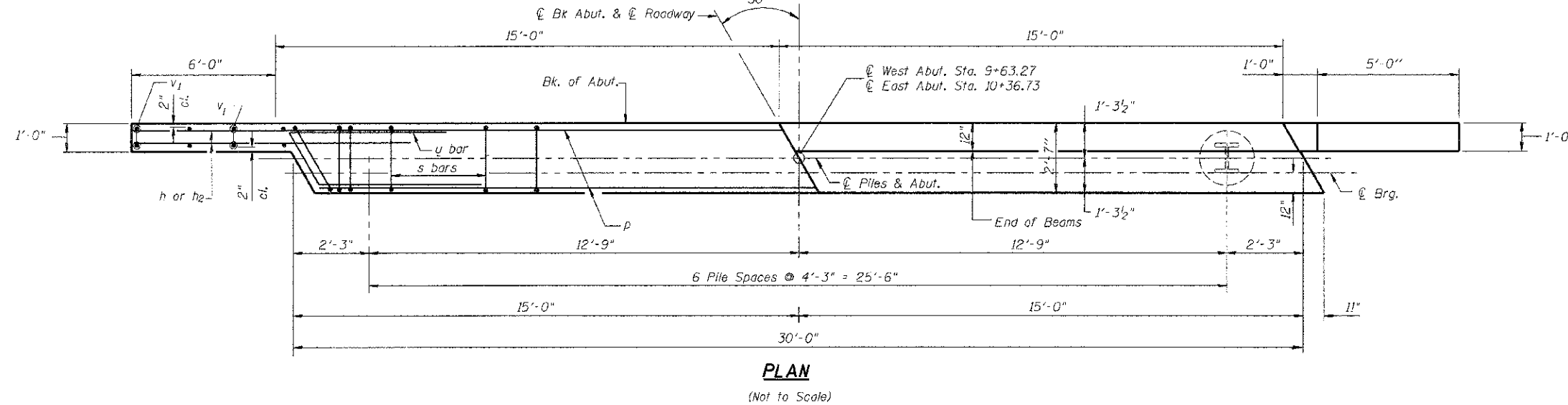
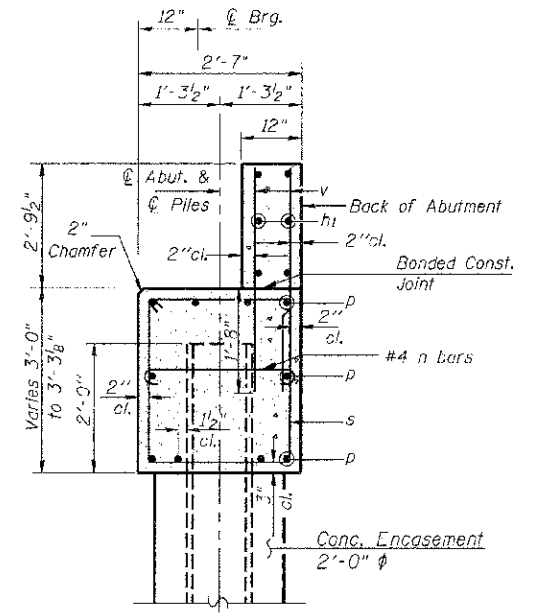
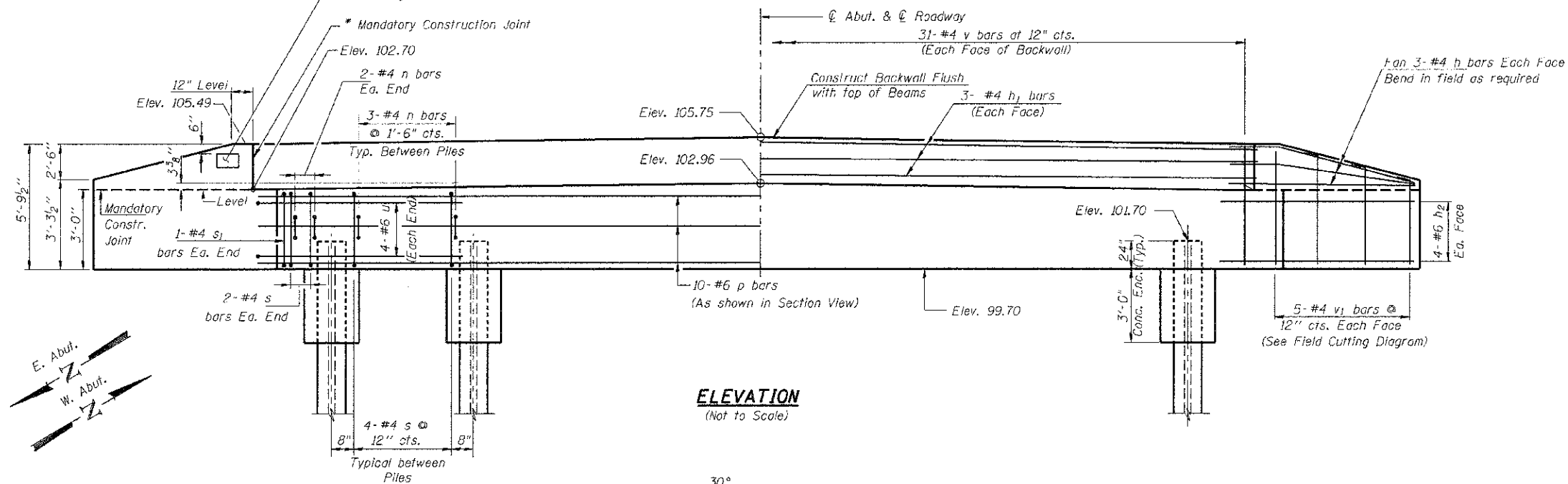
| T.R.                      | SECTION        | COUNTY    | TOTAL SHEETS | SHEET NO.             |
|---------------------------|----------------|-----------|--------------|-----------------------|
| 57                        | 06-03111-00-BR | CHRISTIAN | 17           | 4                     |
|                           |                |           |              | CONTRACT NO. 09 36 01 |
| ILLINOIS FED. AID PROJECT |                |           |              |                       |

\* Cast top of wingwall flush with exterior beam face after beams have been erected.

Name Plate shall be placed on the outside face of the South Wing, West Abutment.

NOTE: After beams are in place and dowel rods grouted, the backwall and the portions of the wingwall above the bonded construction joint shall be poured.

Note: All edges shall have standard  $\frac{3}{4}$ " chamfer unless noted otherwise.

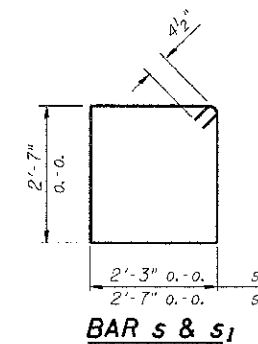
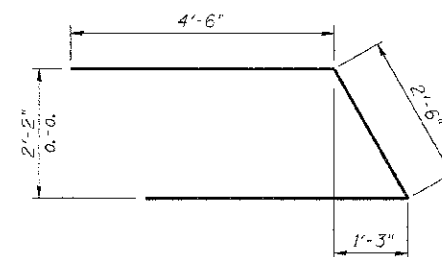
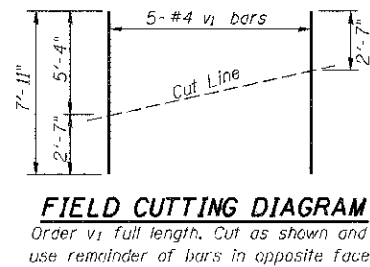
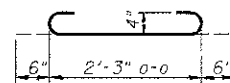


**BILL OF MATERIAL**  
**TWO ABUTMENTS**

| BAR                            | NO. | SIZE | LENGTH  | SHAPE |
|--------------------------------|-----|------|---------|-------|
| h                              | 24  | #4   | 8'-9"   | —     |
| h <sub>1</sub>                 | 12  | #4   | 29'-8"  | —     |
| h <sub>2</sub>                 | 32  | #6   | 10'-3"  | —     |
| n                              | 44  | #4   | 3'-3"   | ⌒     |
| p                              | 20  | #6   | 29'-8"  | —     |
| s                              | 56  | #4   | 10'-5"  | □     |
| s <sub>1</sub>                 | 4   | #4   | 11'-1"  | □     |
| u                              | 16  | #6   | 11'-6"  | ⌒     |
| v                              | 124 | #4   | 4'-3"   | —     |
| v <sub>1</sub>                 | 20  | #4   | 7'-11"  | —     |
| Concrete Structures            |     |      | Cu. Yd. | 28.5  |
| Reinforcement Bars             |     |      | Pound   | 3,010 |
| Furnishing Steel Piles HP12x53 |     |      | Foot    | 585   |
| Driving Piles                  |     |      | Foot    | 585   |
| Concrete Encasement            |     |      | Cu. Yd. | 4.9   |
| Test Piles, Steel HP 12x53     |     |      | Each    | 1     |
| Concrete Sealer                |     |      | Sq. Ft. | 351   |

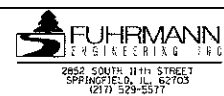
**PILE DATA (2-ABUTS.)**

Type: Steel HP12x53  
 Nominal Required Bearing: 225 kips  
 Allowable Resistance Available: 85 kips  
 Estimated Length: 45 Feet  
 No. Production Piles: 13  
 No. Test Piles: 1 (W. Abut.)



**Note:**

Apply Concrete Sealer to the front face and top surfaces of wingwalls; front face and beam seal surfaces of abutment caps.



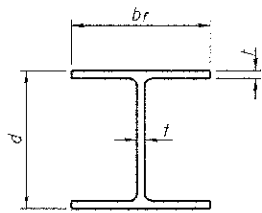
|              |            |           |
|--------------|------------|-----------|
| USER NAME =  | DESIGNED - | REVISED - |
| PLOT SCALE = | CHECKED -  | REVISED - |
| PLOT DATE =  | DRAWN -    | REVISED - |
|              | CHECKED -  | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ABUTMENTS  
SN 011-3408

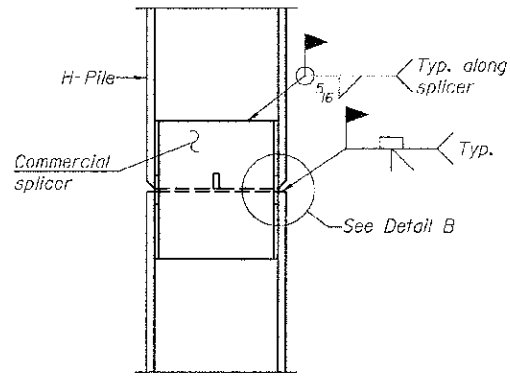
Sheet No. 2 of 8 sheets.

| T.R.                      | SECTION        | COUNTY    | TOTAL SHEETS | SHEET NO.          |
|---------------------------|----------------|-----------|--------------|--------------------|
| 57                        | 06-03111-00-BR | CHRISTIAN | 17           | 5                  |
|                           |                |           |              | CONTRACT NO. 93601 |
| ILLINOIS FED. AID PROJECT |                |           |              |                    |

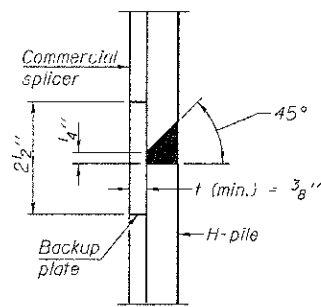


**STEEL PILE TABLE**

| Designation | Depth d | Flange width bf | Web and Flange thickness t | Encasement diameter A |
|-------------|---------|-----------------|----------------------------|-----------------------|
| HP 14x117   | 14 1/4" | 14 7/8"         | 3/8"                       | 30"                   |
| x102        | 14"     | 14 3/4"         | 1/16"                      | 30"                   |
| x89         | 13 7/8" | 14 3/4"         | 5/8"                       | 30"                   |
| x73         | 13 5/8" | 14 5/8"         | 1/2"                       | 30"                   |
| HP 12x84    | 12 1/4" | 12 1/4"         | 1/16"                      | 24"                   |
| x74         | 12 1/8" | 12 1/4"         | 5/8"                       | 24"                   |
| x63         | 12"     | 12 9/8"         | 1/2"                       | 24"                   |
| x53         | 11 3/4" | 12"             | 1/16"                      | 24"                   |
| HP 10x57    | 10"     | 10 1/4"         | 9/16"                      | 24"                   |
| x42         | 9 3/4"  | 10 1/8"         | 7/16"                      | 24"                   |
| HP 8x36     | 8"      | 8 1/8"          | 1/16"                      | 18"                   |

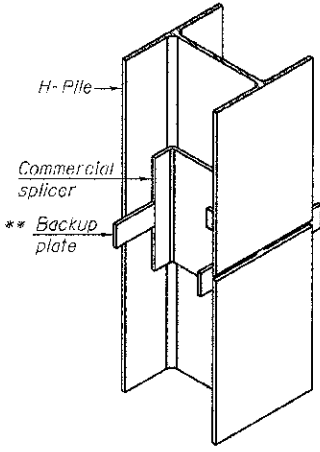


**ELEVATION**

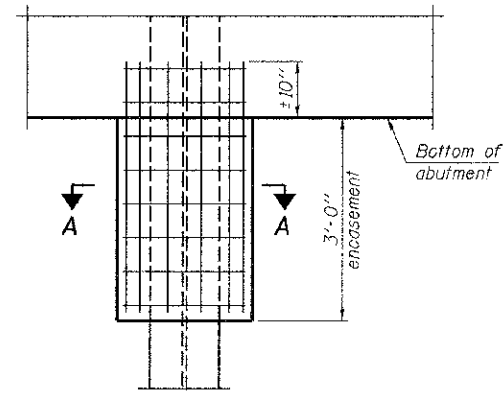


**DETAIL "B"**

**WELDED COMMERCIAL SPLICE**

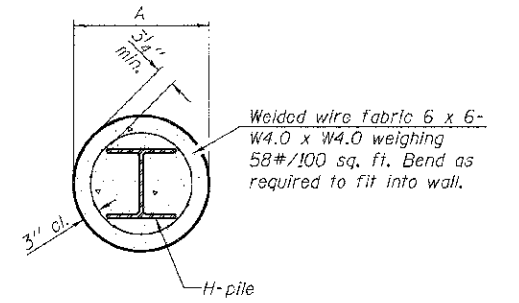


**ISOMETRIC VIEW**



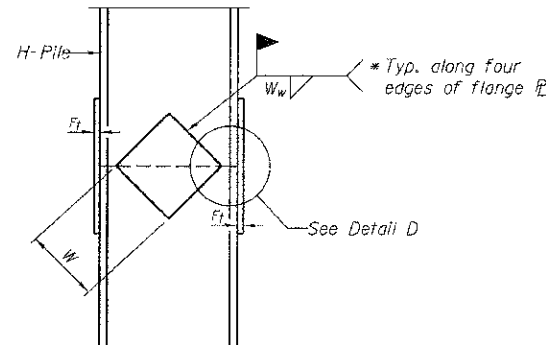
**ELEVATION**

**PILE ENCASEMENT**

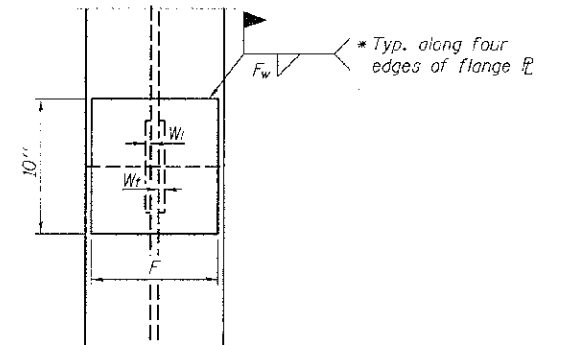


**SECTION A-A**

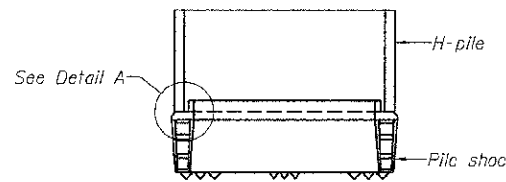
Note:  
Forms for encasement may be omitted when soil conditions permit.



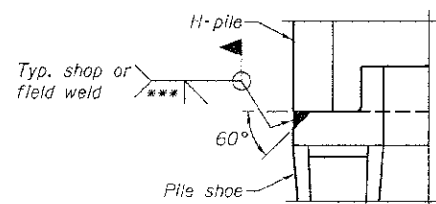
**ELEVATION**



**END VIEW**

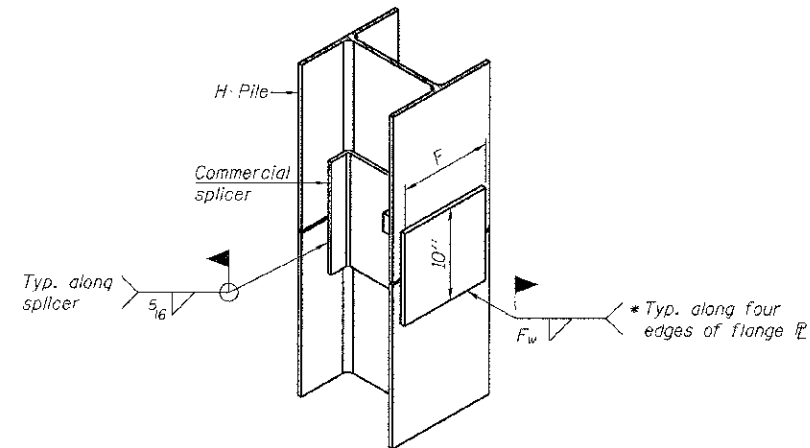


**ELEVATION**



**DETAIL A**

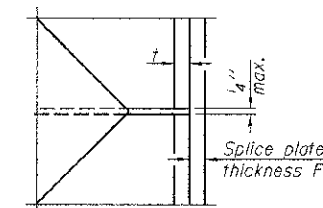
**H-PILE SHOE ATTACHMENT**



**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).



**DETAIL D**

**WELDED PLATE FIELD SPLICE**

| Designation | F       | Ft   | Fw    | W      | Wt   | Ww   |
|-------------|---------|------|-------|--------|------|------|
| HP 14x117   | 12 1/2" | 1"   | 7/8"  | 7 3/4" | 5/8" | 1/2" |
| x102        | 12 1/2" | 7/8" | 3/4"  | 7 3/4" | 5/8" | 1/2" |
| x89         | 12 1/2" | 3/4" | 1/16" | 7 3/4" | 5/8" | 1/2" |
| x73         | 12 1/2" | 5/8" | 9/16" | 7 3/4" | 5/8" | 1/2" |
| HP 12x84    | 10"     | 7/8" | 1/16" | 6 1/2" | 5/8" | 1/2" |
| x74         | 10"     | 7/8" | 1/16" | 6 1/2" | 5/8" | 1/2" |
| x63         | 10"     | 5/8" | 1/2"  | 6 1/2" | 1/2" | 3/8" |
| x53         | 10"     | 5/8" | 1/2"  | 6 1/2" | 1/2" | 3/8" |
| HP 10x57    | 8"      | 3/4" | 5/16" | 5 1/4" | 1/2" | 3/8" |
| x42         | 8"      | 5/8" | 9/16" | 5 1/4" | 1/2" | 3/8" |
| HP 8x36     | 7"      | 5/8" | 7/16" | 4 1/4" | 1/2" | 3/8" |

Note:  
The steel H-piles shall be according to AASHTO M270 Grade 50.

F-HP

7-1-10



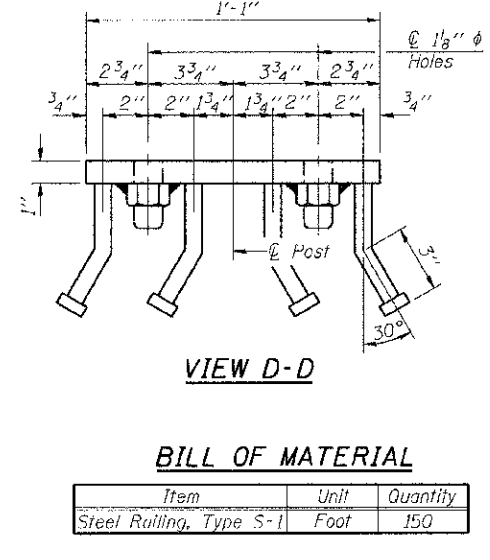
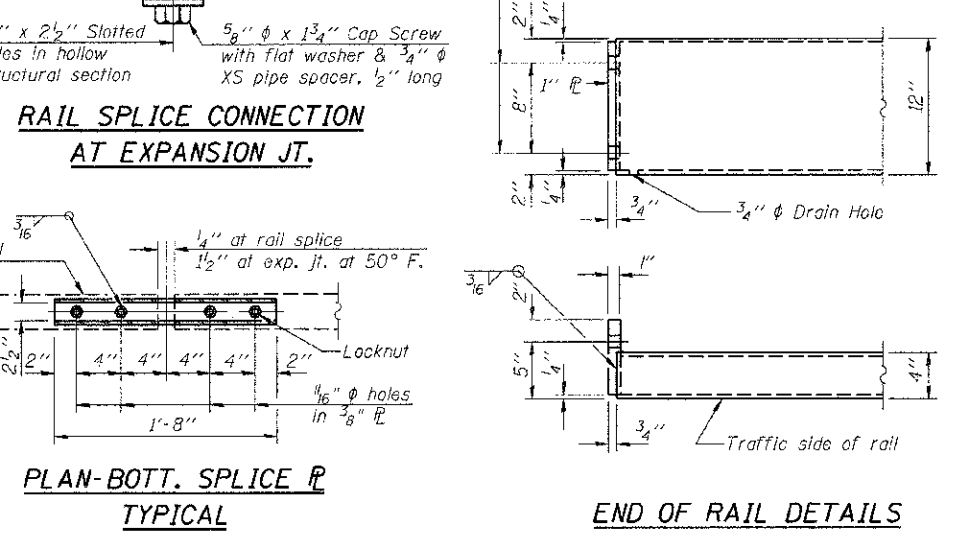
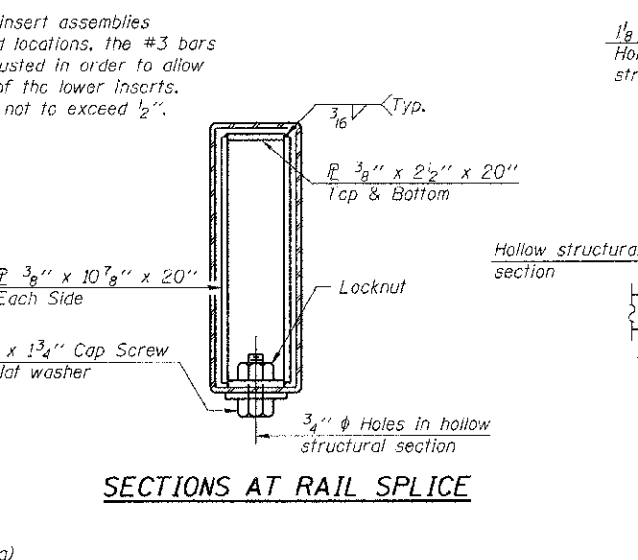
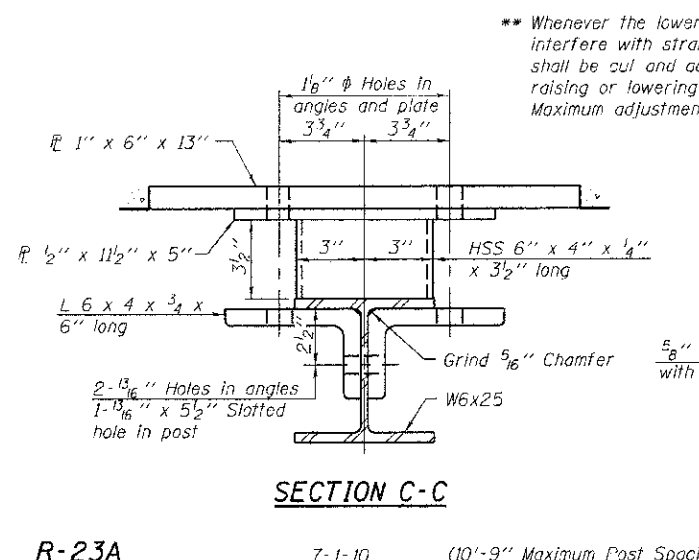
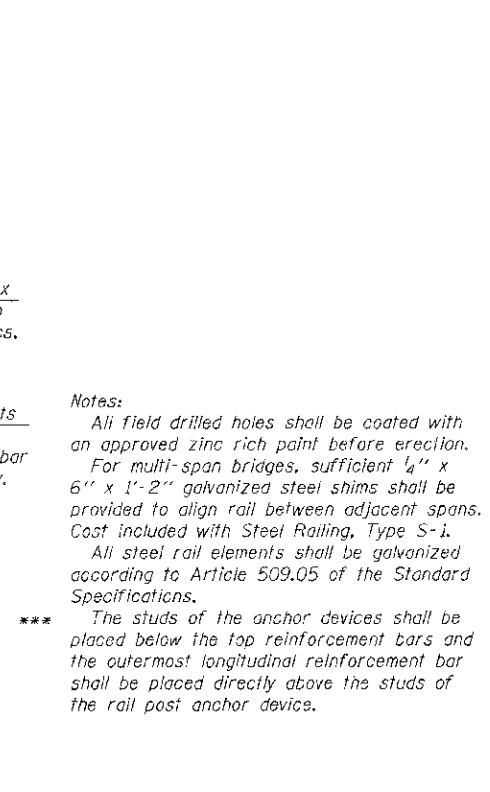
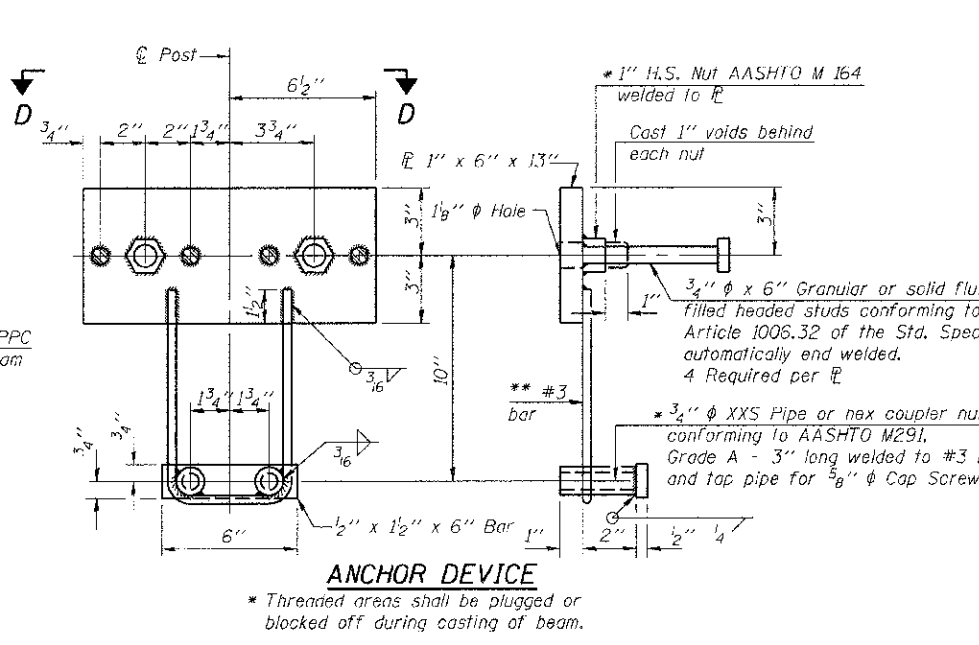
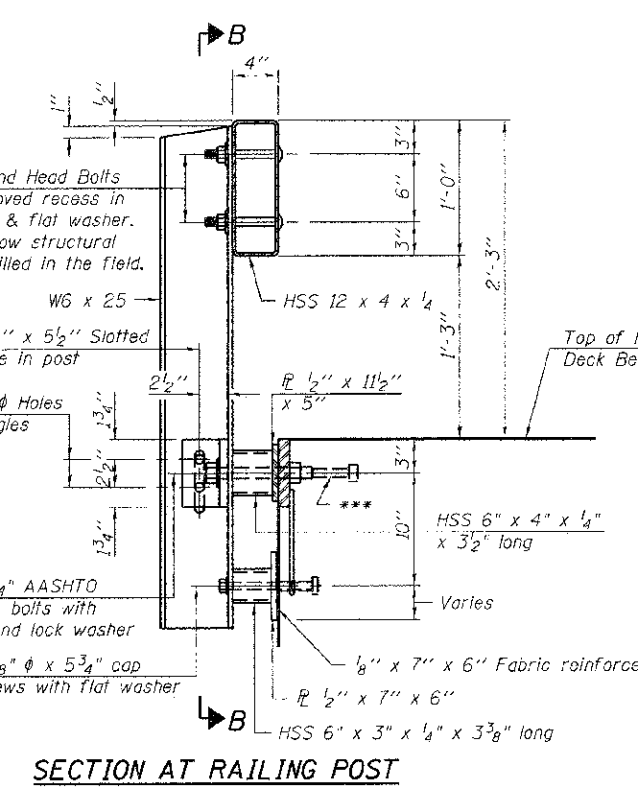
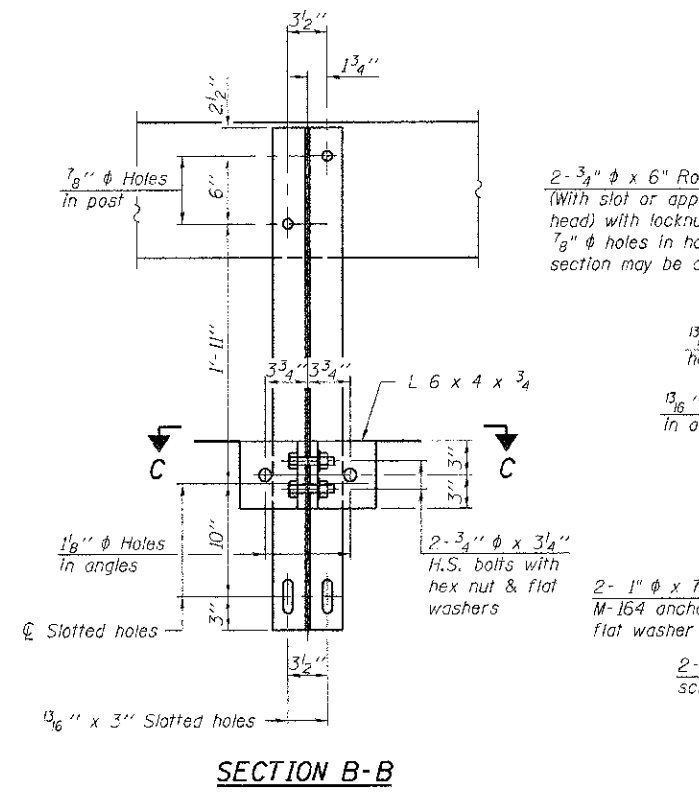
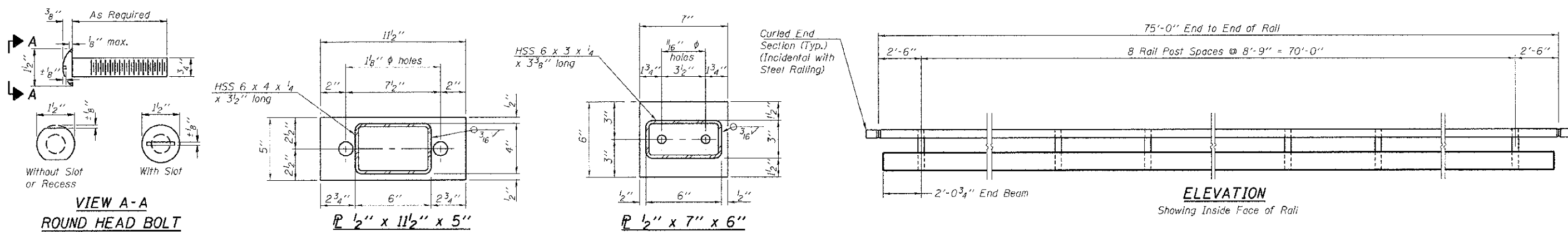
|            |          |         |
|------------|----------|---------|
| USER NAME  | DESIGNED | REVISED |
| PLOT SCALE | CHECKED  | REVISED |
| PLOT DATE  | DRAWN    | REVISED |
|            | CHECKED  | REVISED |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS  
STRUCTURE NO. 011-3408

Sheet No. 3 of 8 sheets.

| T.R.                      | SECTION        | COUNTY    | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|-----------|--------------|-----------|
| 57                        | 06-03111-00-BR | CHRISTIAN | 17           | 6         |
| CONTRACT NO. 93601        |                |           |              |           |
| ILLINOIS FED. AID PROJECT |                |           |              |           |



**Notes:**

All field drilled holes shall be coated with an approved zinc rich paint before erection. 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 S-1.

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

\*\*\* The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

R-23A 7-1-10 (10'-9" Maximum Post Spacing)

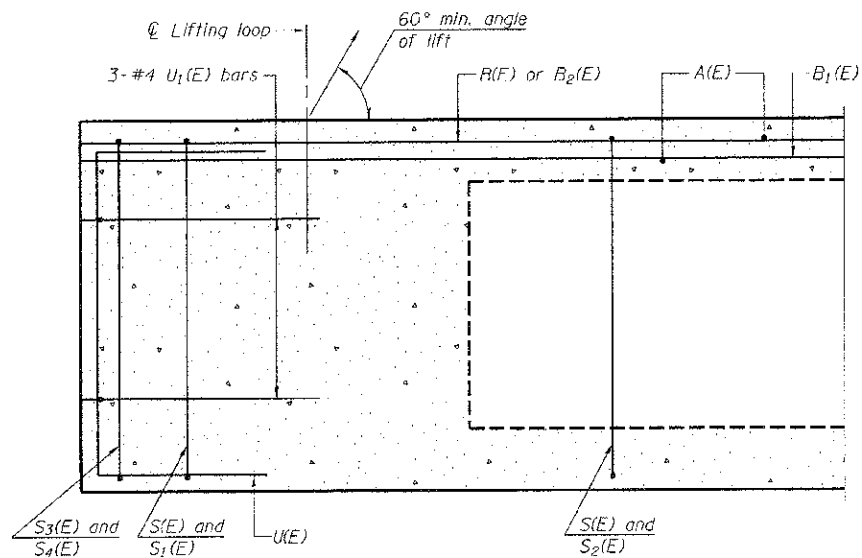
|   |              |            |           |
|---|--------------|------------|-----------|
| <br>2602 SOUTH 11TH STREET<br>SPRINGFIELD, IL 62703<br>(217) 529-5977 | USER NAME *  | DESIGNED - | REVISED - |
|   | PLOT SCALE * | CHECKED -  | REVISED - |
|   | PLOT DATE *  | DRAWN -    | REVISED - |
|   |              | CHECKED -  | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE S-1  
SN 011-3408  
Sheet No. 4 of 8 sheets.

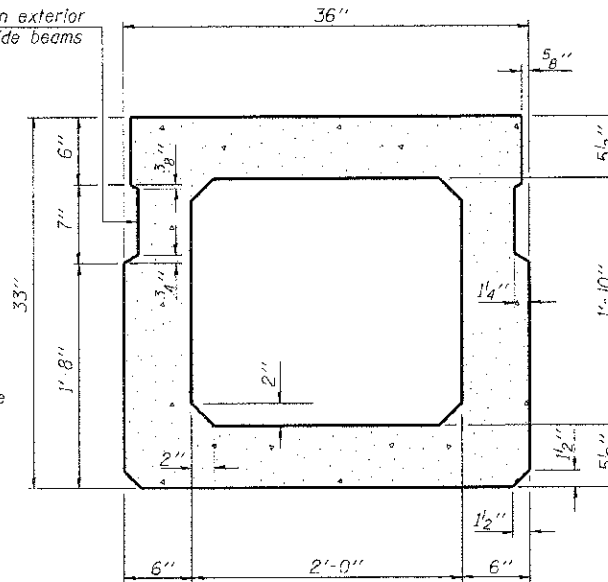
| T.R.                      | SECTION        | COUNTY    | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|-----------|--------------|-----------|
| 57                        | 06-03111-00-BR | CHRISTIAN | 17           | 7         |
| CONTRACT NO. 9 8 8 0 1    |                |           |              |           |
| ILLINOIS FED. AID PROJECT |                |           |              |           |



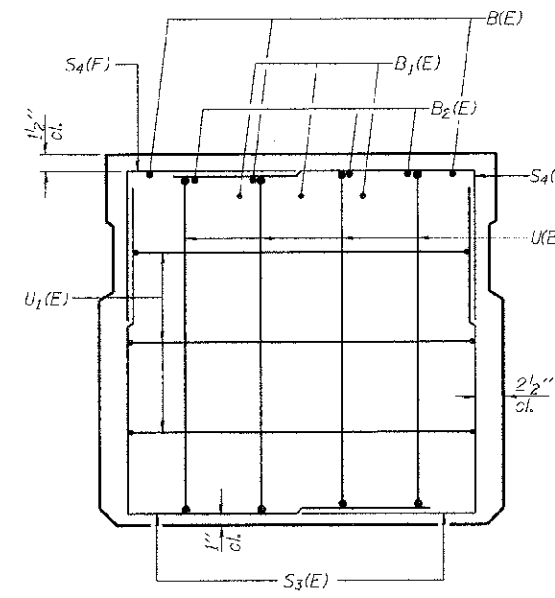


**SECTION C-C**

\* Omit key on exterior face of outside beams



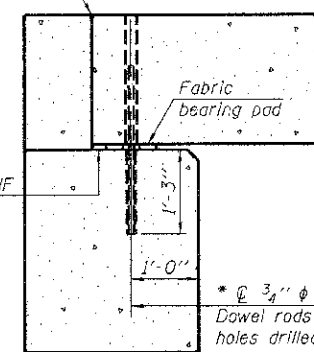
**SECTION A-A**  
(Showing dimensions)



**VIEW B-B**

\* Rail post anchor Devices to be cast into exterior face of outside beams (Sheet 4 of 8).

1/4" x 3/4" Sawn joint with elastic joint filler (full width)



**SECTION THRU ABUTMENT**

(At Rt. Angles)

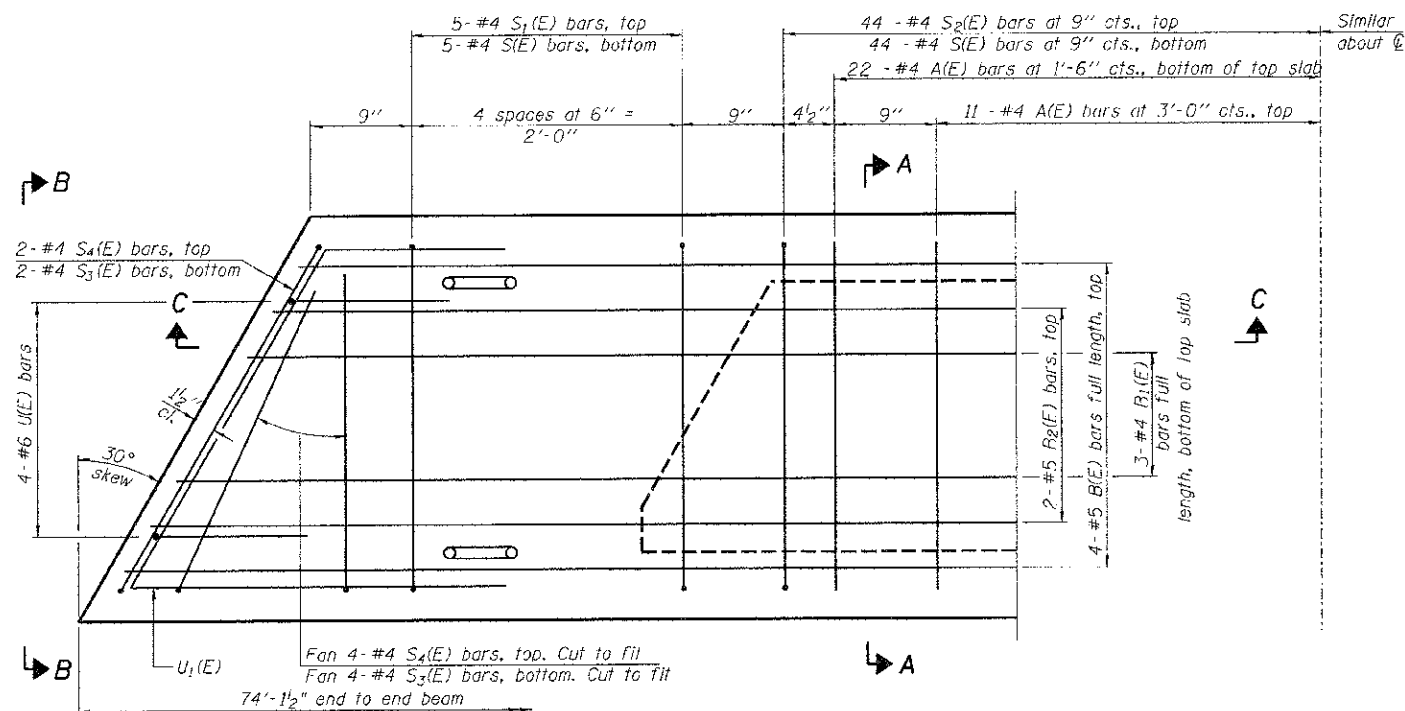
\*After the beams are in place, 1/4"  $\phi$  holes shall be drilled into the bridge seat, and the dowel rods grouted and allowed to cure (min. 24 hrs.) prior to grouting the shear keys. The grout shall be an approved non-shrink grout.

**BAR LIST**  
**ONE BEAM ONLY**

(For information only)

| Bar   | No. | Size | Length | Shape |
|-------|-----|------|--------|-------|
| A(E)  | 66  | #4   | 2'-7"  | —     |
| B(E)  | 12  | #5   | 26'-4" | —     |
| B1(E) | 9   | #4   | 26'-4" | —     |
| B2(E) | 4   | #5   | 10'-0" | —     |
| S(E)  | 98  | #4   | 7'-5"  | U     |
| S1(E) | 10  | #4   | 6'-3"  | U     |
| S2(E) | 88  | #4   | 6'-6"  | U     |
| S3(E) | 12  | #4   | 5'-3"  | U     |
| S4(E) | 12  | #4   | 4'-8"  | U     |
| U(E)  | 8   | #6   | 5'-0"  | C     |
| U1(E) | 6   | #4   | 6'-11" | C     |

Note: See sheet 9 of 17 for additional details and Bill of Material.

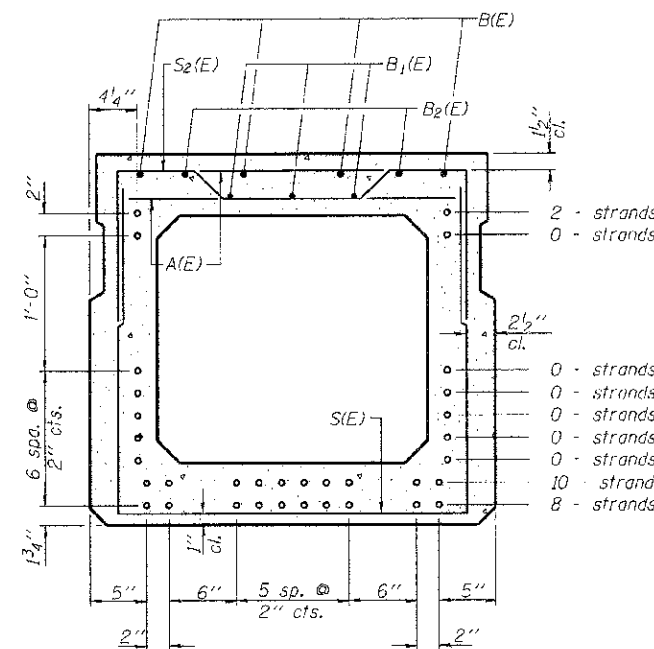


**PLAN VIEW**

**MINIMUM BAR LAP**

#4 bar = 2'-0"  
#5 bar = 2'-6"

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



**SECTION A-A**

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.



|              |            |           |
|--------------|------------|-----------|
| USER NAME *  | DESIGNED - | REVISED - |
| PLOT SCALE * | CHECKED -  | REVISED - |
| PLOT DATE *  | DRAWN -    | REVISED - |
|              | CHECKED -  | REVISED - |

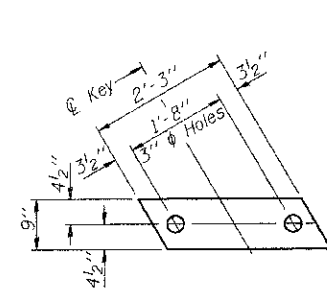
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**33" x 36" PPC DECK BEAM**  
**SN 011-3408**

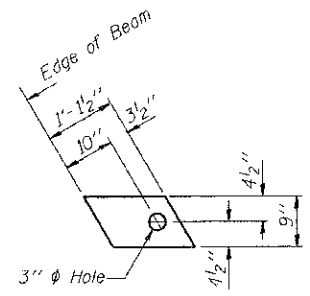
Sheet No. 5 of 8 sheets.

|                        |                |           |                           |           |
|------------------------|----------------|-----------|---------------------------|-----------|
| T.R.                   | SECTION        | COUNTY    | TOTAL SHEETS              | SHEET NO. |
| 57                     | 06-03111-00-BR | CHRISTIAN | 17                        | 8         |
| CONTRACT NO. 9 3 6 0 1 |                |           | ILLINOIS FED. AID PROJECT |           |





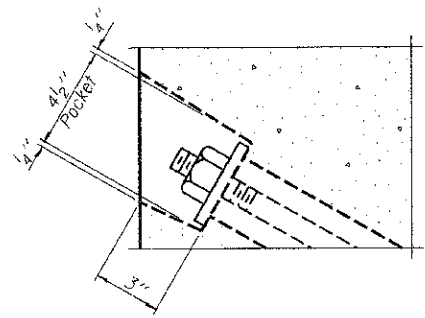
**1/2" FABRIC BEARING PAD**  
(Interior)



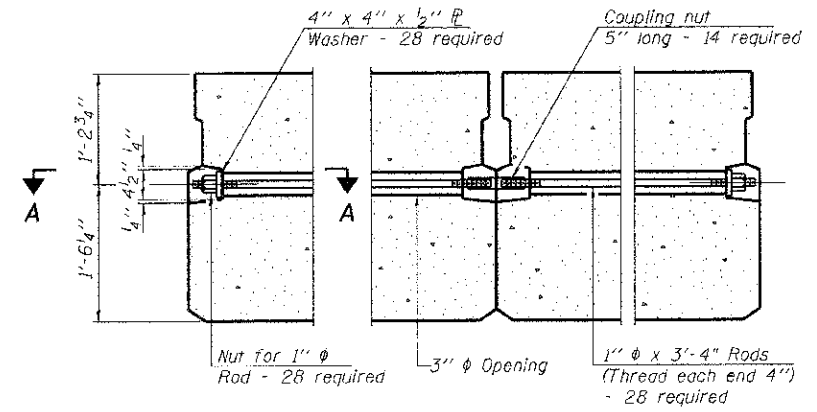
**1/2" FABRIC BEARING PAD**  
(Exterior)

**Notes:**  
Omit holes when using expansion bearings.  
Expansion bearing pad shall be bonded to the substructure.

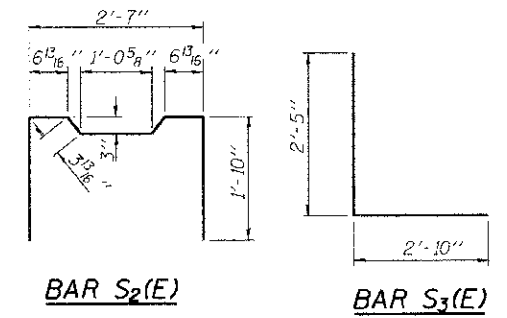
**FIXED**



**SECTION A-A**

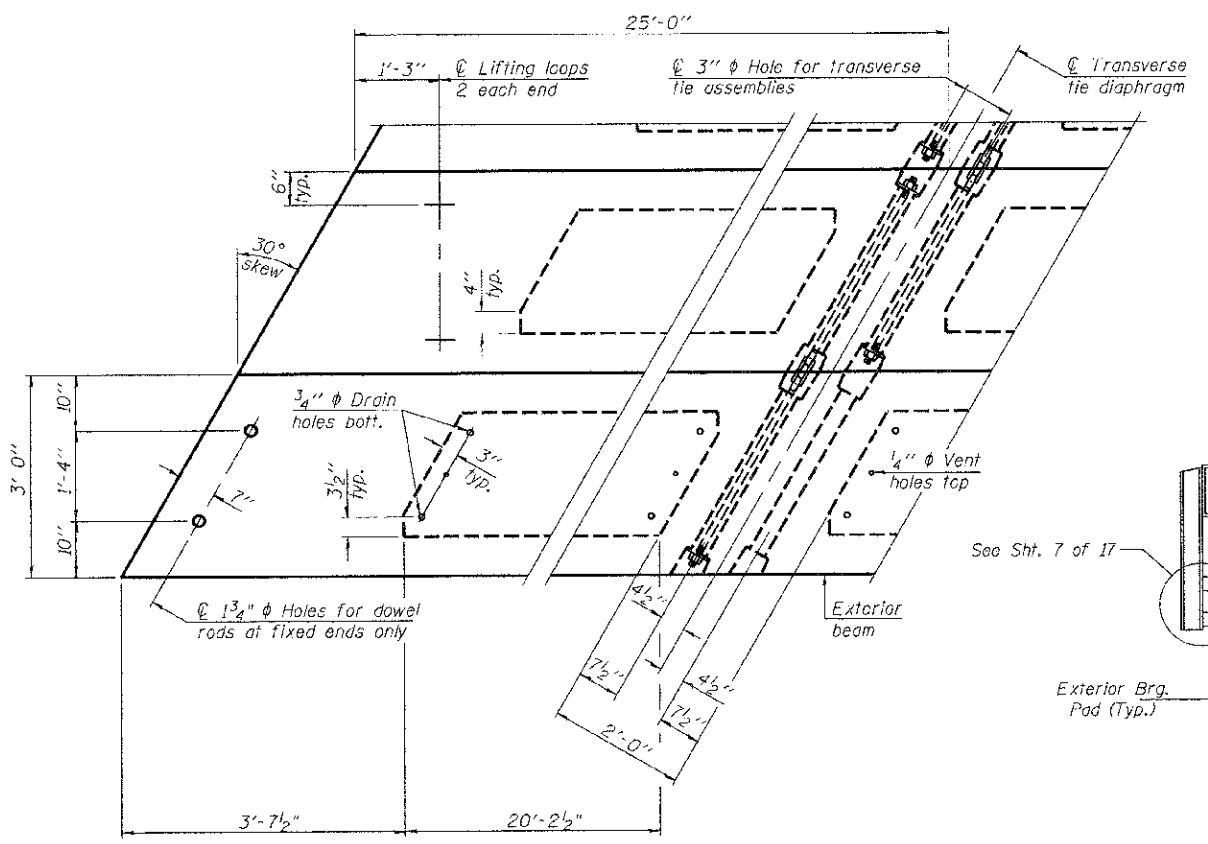


**TYPICAL TRANSVERSE TIE ASSEMBLY**

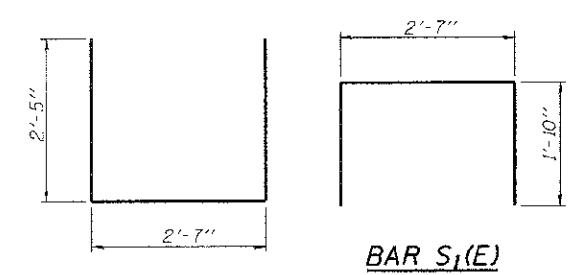


**BAR S<sub>2</sub>(E)**

**BAR S<sub>3</sub>(E)**

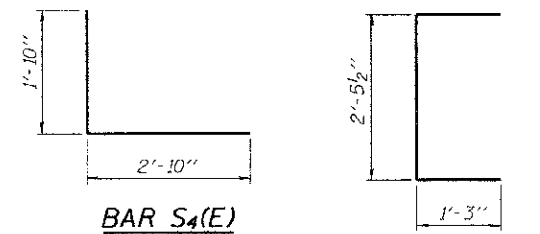


**PLAN VIEW**



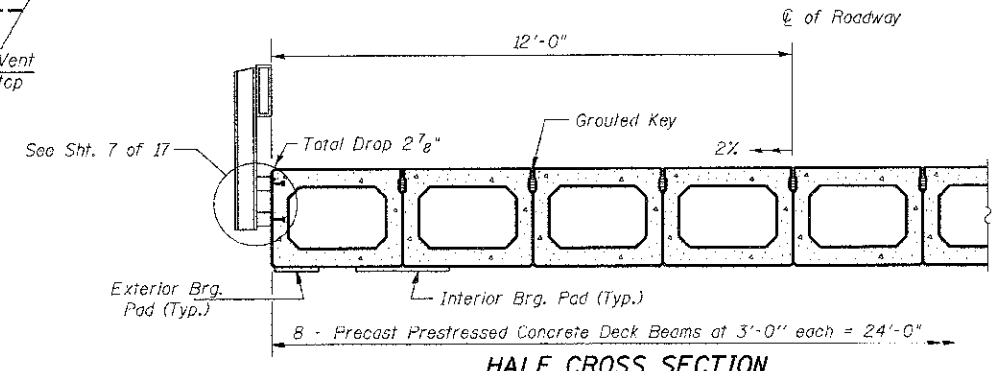
**BAR S(E)**

**BAR S<sub>1</sub>(E)**

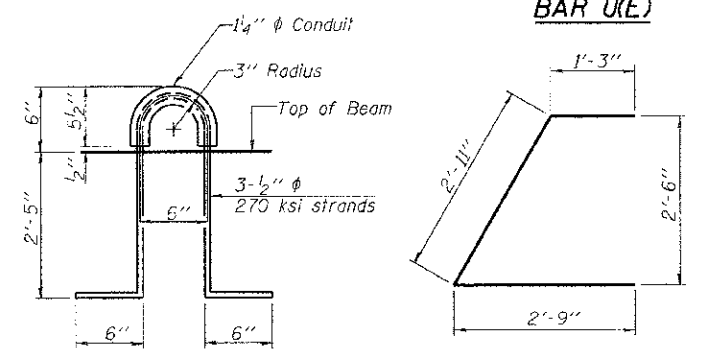


**BAR S<sub>4</sub>(E)**

**BAR U(E)**



**HALF CROSS SECTION**



**LIFTING LOOP DETAIL**

**BAR U<sub>1</sub>(E)**

**BILL OF MATERIAL**

|   |         |       |
|---|---------|-------|
| Precast Prestressed Conc. Deck Bms. (33" depth) | Sq. Ft. | 1,780 |
|---|---------|-------|

**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. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.  
Reinforcement bars shall conform to ASTM A 706, Grade 60.  
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.  
A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.  
Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.  
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.  
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

Note: Connect beams in pairs with the transverse tie configuration shown.



|            |          |         |
|------------|----------|---------|
| USER NAME  | DESIGNED | REVISED |
| PLOT SCALE | CHECKED  | REVISED |
| PLOT DATE  | DRAWN    | REVISED |
|            | CHECKED  | REVISED |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**33" x 36" PPC DECK BEAM DETAILS**  
**SN 011-3408**

Sheet No. 6 of 8 sheets.

|                           |                |           |                    |           |
|---------------------------|----------------|-----------|--------------------|-----------|
| T.R.                      | SECTION        | COUNTY    | TOTAL SHEETS       | SHEET NO. |
| 57                        | 06-03111-00-BR | CHRISTIAN | 17                 | 9         |
|                           |                |           | CONTRACT NO. 93601 |           |
| ILLINOIS FED. AID PROJECT |                |           |                    |           |

Christian County Bridge  
 Buckhart Township, Bridge #12,  
 County Road 2400N  
 Project # 181-0468

**ATLAS SOILS, INC.**  
 HILLSBORO, ILLINOIS  
 PHONE 217/532-3959

DATE: March 12 - 13, 2008  
 BORING TECH.: A. Staggenmeyer  
 DRILLING TECH.: M. Hough

**FOUNDATION BORING LOG**

| BORING NO.: 1   | N     | Qu    | W    | REC  | GROUNDWATER ELEV.   | N                                       | Qu     | W     | REC  |     |
|---|-------|-------|------|------|---|---|--------|-------|------|-----|
| STATION: 10+41, 3' RT   | Value | (tsf) | (%)  | (%)  | COMP.: - 5.2 ft.  | Value                                   | (tsf)  | (%)   | (%)  |     |
| SURFACE ELEV.: 99.2 ft.   |       |       |      |      | AFTER 24 HRS.: -2.9 ft.;<br>Bridge at -32.4 ft.                                 |   |        |       |      |     |
| Oil and Chip Roadway  | 0     |       |      |      |   | 20                                      |        |       |      |     |
| CLAY LOAM (CL), Brown, Moist,<br>Medium Stiff                         |       | B-S   |      |      | SILT (ML), Brown, Moist, Very<br>Stiff  |   | S      |       |      |     |
|   | 4     | 1.54  | 28.1 | 75   |   | 14                                      | 3.43   | 25.5  | 80   |     |
| SILTY CLAY (CL), Brown,<br>Reddish Brown, Mottled, Moist,<br>Soft     |       | B     |      |      | Possible Gravel Layer   |   | P      |       |      |     |
|   | 5     | 2     | 0.28 | 21.9 | 80  | SILTY CLAY (CL), Brown, Moist,<br>Stiff |        |       |      |     |
|   |       |       |      |      |   | 25                                      | 20     | 1.50  | 15.6 | 45  |
| CLAY LOAM (CL), Gray, Dry to<br>Moist, Medium Stiff, Trace of<br>Sand |       | B-S   |      |      | SILTY CLAY TILL (CL), Gray,<br>Brown, Mottled, Dry to Moist,<br>Trace of Gravel |   | B-S    |       |      |     |
|   | 5     | 1.62  | 27.7 | 95   |   | 26                                      | >5.05  | 11.7  | 100  |     |
| Gray and Green  |       | B     |      |      |   |   | S      |       |      |     |
|   | 10    | 4     | 0.97 | 29.9 | 50  | 30                                      | 100/9" | 3.03  | 10.0 | 90  |
| SANDY CLAY LOAM (CL), Gray,<br>Green, Brown, Mottled, Soft            |       | P     |      |      | Trace of Sand and Gravel  |   | B      |       |      |     |
|   | 2     | 0.25  | 28.4 | 100  |   | 71                                      | >5.05  | 10.6  | 100  |     |
| Wood, Black, Friable  |       | NP    |      | 100. |   |   | B      |       |      |     |
|   | 15    | 3     |      |      |   | 35                                      | 63     | >5.05 | 11.2 | 100 |
| SILTY CLAY (CL), Gray, Moist to<br>Wet, Soft, Trace of Gravel         |       | B     |      |      | Possible Thin Gravel Layer  |   |        |       |      |     |
|   | 3     | 0.40  | 22.5 | 75   |   |   |        |       |      |     |
| Gray, Brown, Mottled, Moist,<br>Medium Stiff, Trace of Gravel         |       | B     |      |      |   |   | B-S    |       |      |     |
|   | 20    | 6     | 1.41 | 21.2 | 80  | 40                                      | 52     | >5.05 | 12.0 | 100 |

N: Blows per ft. to Drive 2" O.D. Split Spoon Sampler  
 12" with 140 lb. Hammer falling 30"  
 (Standard Penetration Test)

RQD: Rock Quality Determination

Qu: Unconfined Compression Strength

NP: Non-Plastic  
 ST: Shelby Tube  
 W: Water Content

Type Failure:

B: Bulge Failure  
 S: Shear Failure  
 NS: No Sample  
 P: Penetrometer

Christian County Bridge  
 Buckhart Township, Bridge #12,  
 County Road 2400N  
 Project # 181-0468

**ATLAS SOILS, INC.**  
 HILLSBORO, ILLINOIS  
 PHONE 217/532-3959

DATE: March 12 - 13, 2008  
 BORING TECH.: A. Staggenmeyer  
 DRILLING TECH.: M. Hough

**FOUNDATION BORING LOG**

| BORING NO.: 1 (cont)   | N     | Qu    | W     | REC  | GROUNDWATER ELEV.                               | N     | Qu    | W   | REC |
|--|-------|-------|-------|------|---|-------|-------|-----|-----|
| STATION: 10+41, 3' RT  | Value | (tsf) | (%)   | (%)  | COMP.: - 5.2 ft.                                | Value | (tsf) | (%) | (%) |
| SURFACE ELEV.: 99.2 ft.  |       |       |       |      | AFTER 24 HRS.: -2.9 ft.;<br>Bridge at -32.4 ft. |       |       |     |     |
|  | 40    |       |       |      |   | 60    |       |     |     |
| SILTY CLAY TILL (CL), Gray, Dry,<br>Hard, Trace of Sand and Gravel |       |       |       |      |   |       |       |     |     |
|  |       | B     |       |      |   |       |       |     |     |
|  | 45    | 75    | >5.05 | 11.5 | 100   | 65    |       |     |     |
| End of Exploration at 45.0 ft.                                     |       |       |       |      |   |       |       |     |     |
|  |       |       |       |      |   | 70    |       |     |     |
|  |       |       |       |      |   | 50    |       |     |     |
|  |       |       |       |      |   | 75    |       |     |     |
|  |       |       |       |      |   | 80    |       |     |     |

N: Blows per ft. to Drive 2" O.D. Split Spoon Sampler  
 12" with 140 lb. Hammer falling 30"  
 (Standard Penetration Test)

RQD: Rock Quality Determination

Qu: Unconfined Compression Strength

NP: Non-Plastic  
 ST: Shelby Tube  
 W: Water Content

Type Failure:

D: Bulge Failure  
 S: Shear Failure  
 NS: No Sample  
 P: Penetrometer

Notes:  
 1) Borehole backfilled with soil  
 cuttings upon final water table  
 measurement.  
 2) Local benchmark equal to  
 100.0 ft. provided by county  
 highway department was used  
 to determine elevations.  
 3) Center of bridge was assigned  
 a station of 10+00 with  
 stationing increasing to the east.  
 4) Creek flowline elevation =  
 91.2 ft. at the time of  
 investigation.



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| USER NAME  | DESIGNED | REVISED |
| PLOT SCALE | CHECKED  | REVISED |
| PLOT DATE  | DRAWN    | REVISED |
|            | CHECKED  | REVISED |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SOIL BORINGS  
 SN 011-3408

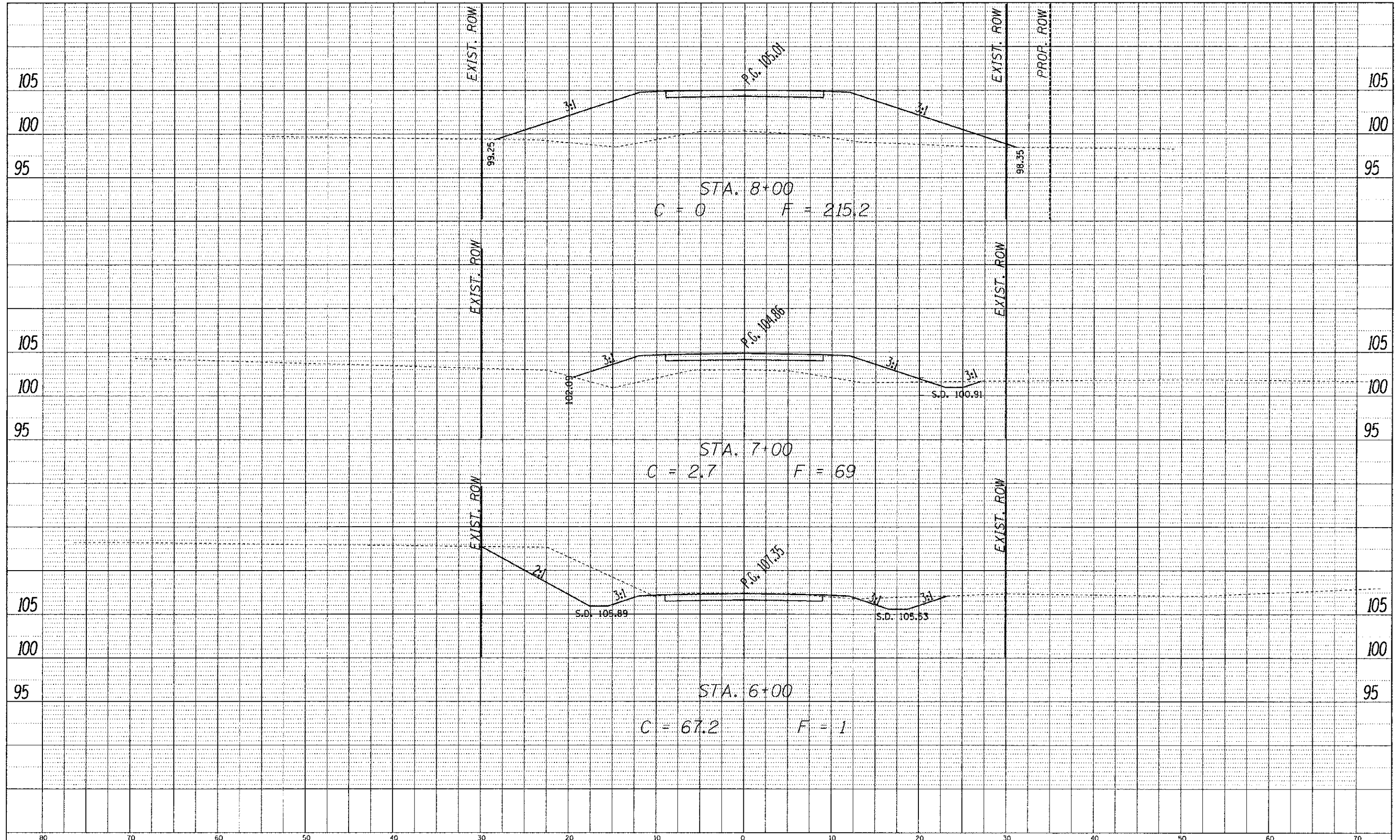
Sheet No. 7 of 8 sheets.

| T.R.                      | SECTION        | COUNTY    | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|-----------|--------------|-----------|
| 57                        | 06-03111-00-BR | CHRISTIAN | 17           | 10        |
| CONTRACT NO. 093601       |                |           |              |           |
| ILLINOIS FED. AID PROJECT |                |           |              |           |



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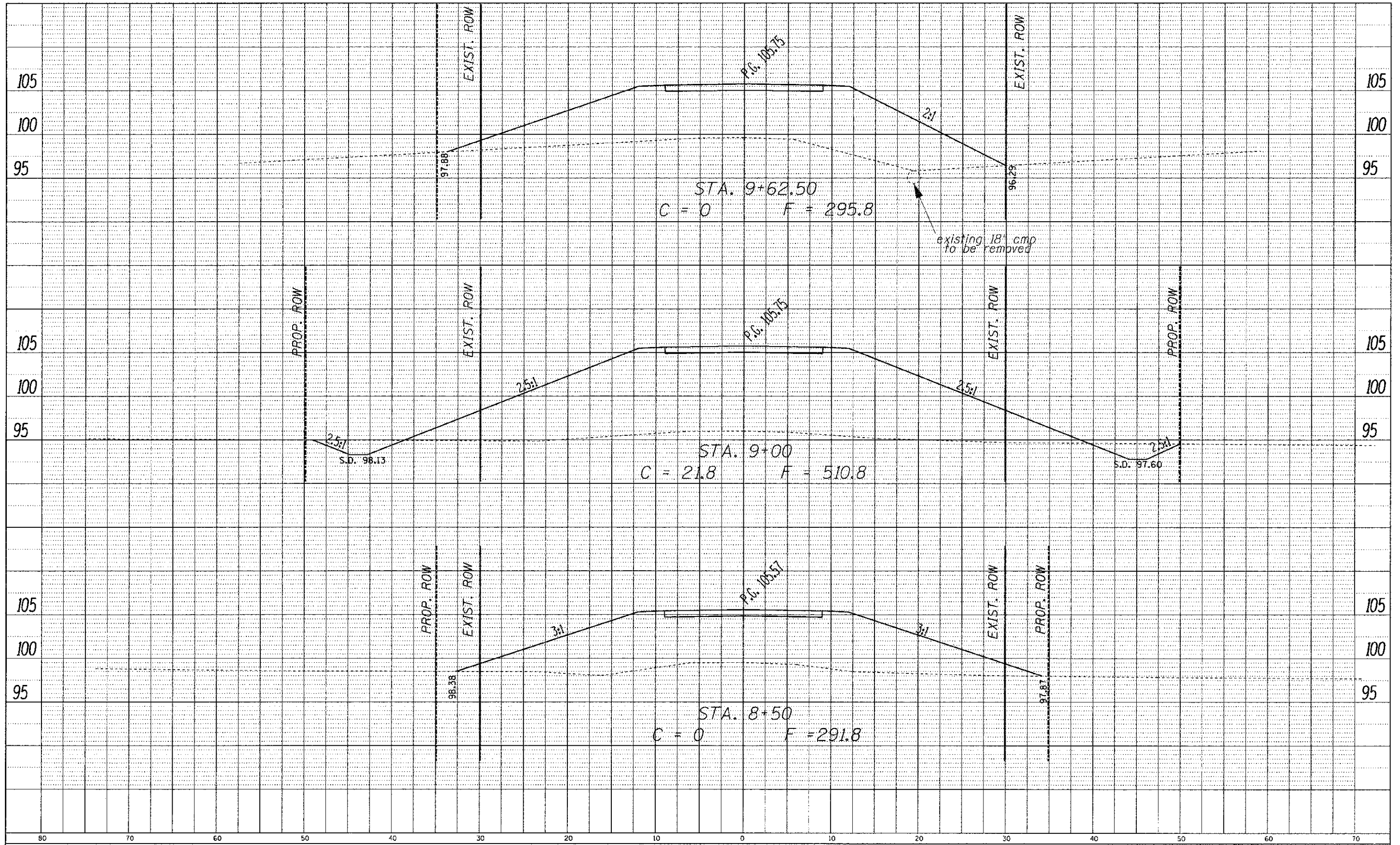
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 STRUCTURE NO.  
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|                    |                    | DRAWN -    | REVISD - |   | SCALE: SHEET NO. OF SHEETS STA. TO STA.                   | CONTRACT NO. 93601 |  |  |                |                        |                  |                 |              |
|                    |                    | CHECKED -  | REVISD - |   | ILLINOIS FED. AID PROJECT                                 |                    |  |  |                |                        |                  |                 |              |
|                    |                    | DATE -     | REVISD - |   |   |                    |  |  |                |                        |                  |                 |              |

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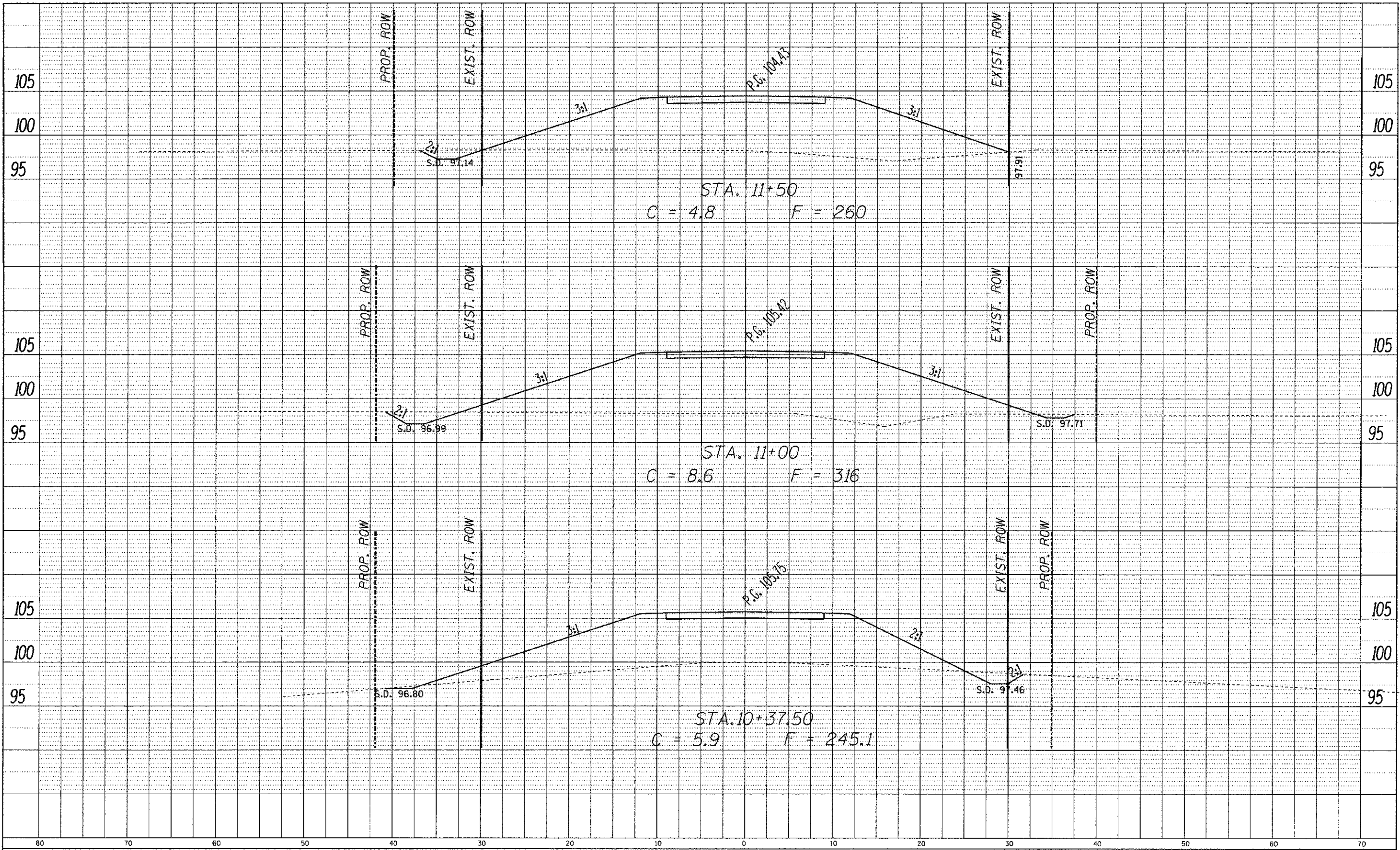


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| #FILE#      |                    | DRAWN -    | REVISED - |   | SCALE:  | SHEET NO. | OF SHEETS | STA.        | TO STA. | 57     | 06-03111-00-BR            | CHRISTIAN | 17 | 13 |
|             |                    | CHECKED -  | REVISED - |   |   |           |           |             |         |        |                           |           |    |    |
|             |                    | DATE -     | REVISED - |   |   |           |           |             |         |        |                           |           |    |    |
|             |                    |            |           |   |   |           |           |             |         |        | CONTRACT NO. 93601        |           |    |    |
|             |                    |            |           |   |   |           |           |             |         |        | ILLINOIS FED. AID PROJECT |           |    |    |



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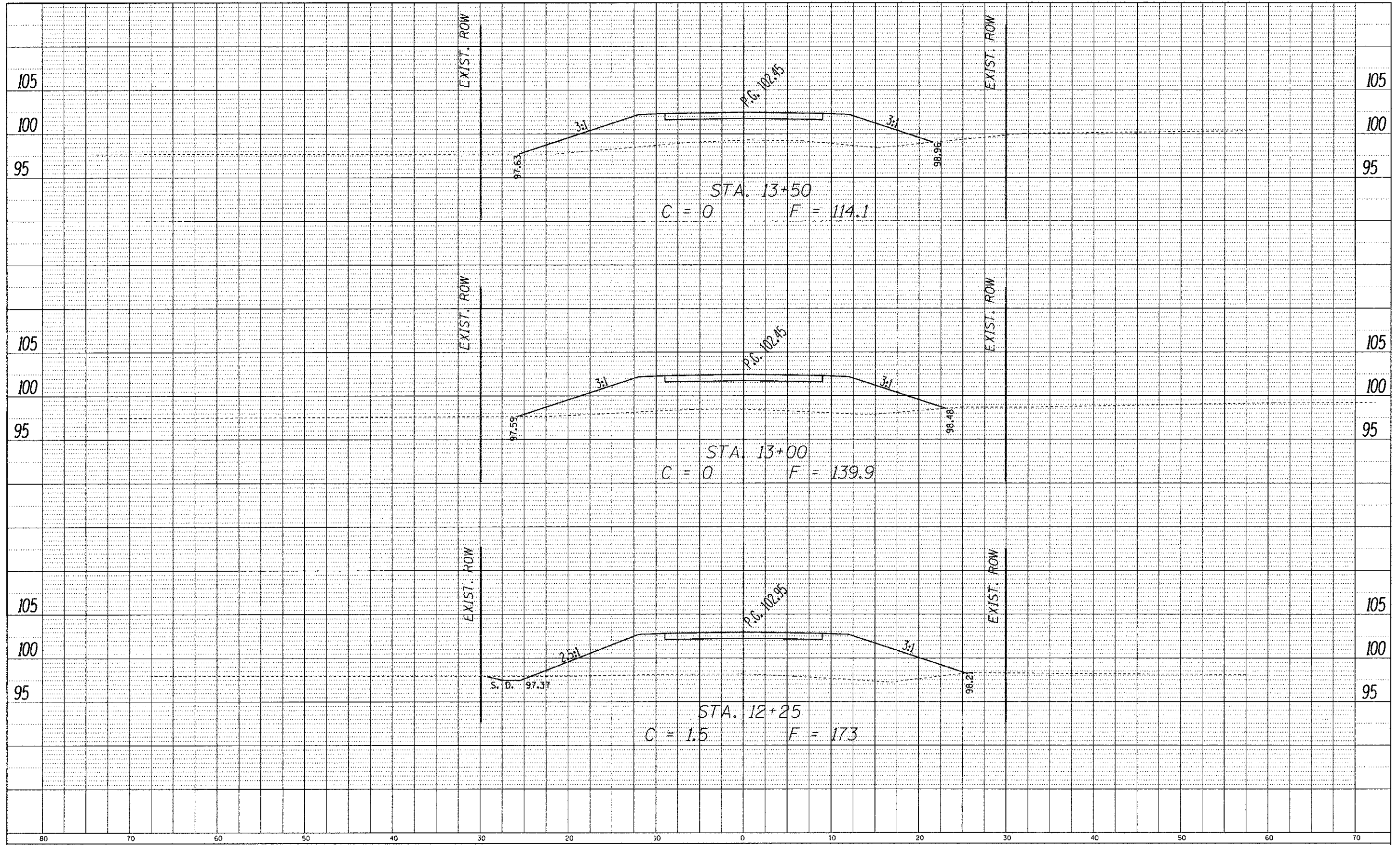


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| *FILEL#     |                    | DRAWN -    | REVISED - |   | SCALE:  | SHEET NO. | OF SHEETS | STA.        | TO STA. | 57     | 06-03111-00-BR | CHRISTIAN | 17 14 |
|             |                    | CHECKED -  | REVISED - |   |   |           |           |             |         |        |                |           |       |
|             |                    | DATE -     | REVISED - |   |   |           |           |             |         |        |                |           |       |
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ILLINOIS FED. AID PROJECT CONTRACT NO. 93601

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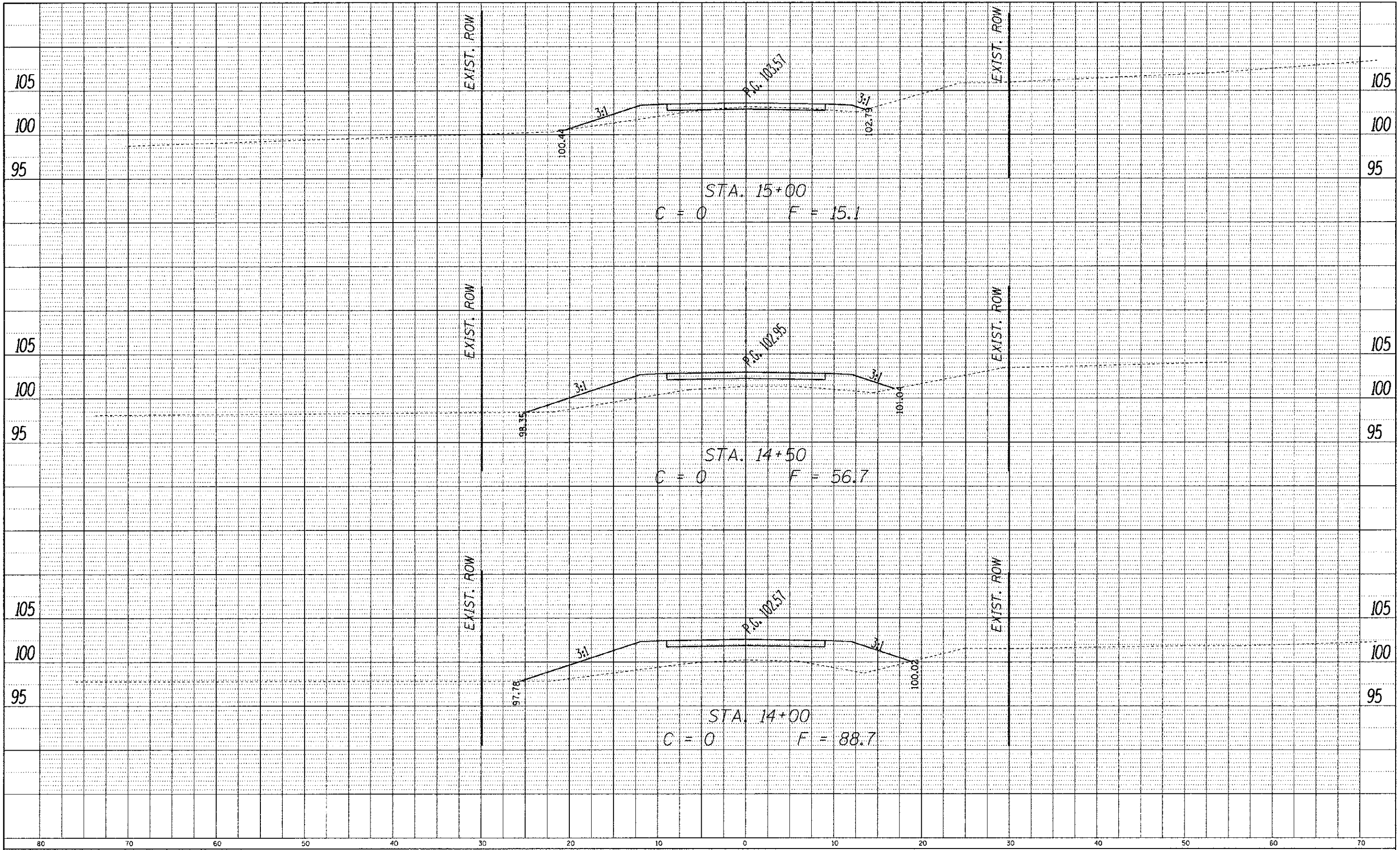


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|                     |                    | DRAWN -    | REVISIONS - |   | SCALE:  | SHEET NO. | OF | SHEETS         | STA.                   | TO STA.          | CONTRACT NO. 93601<br>ILLINOIS FED. AID PROJECT |              |
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|                     |                    | DATE -     | REVISIONS - |   |   |           |    |                |                        |                  |   |              |



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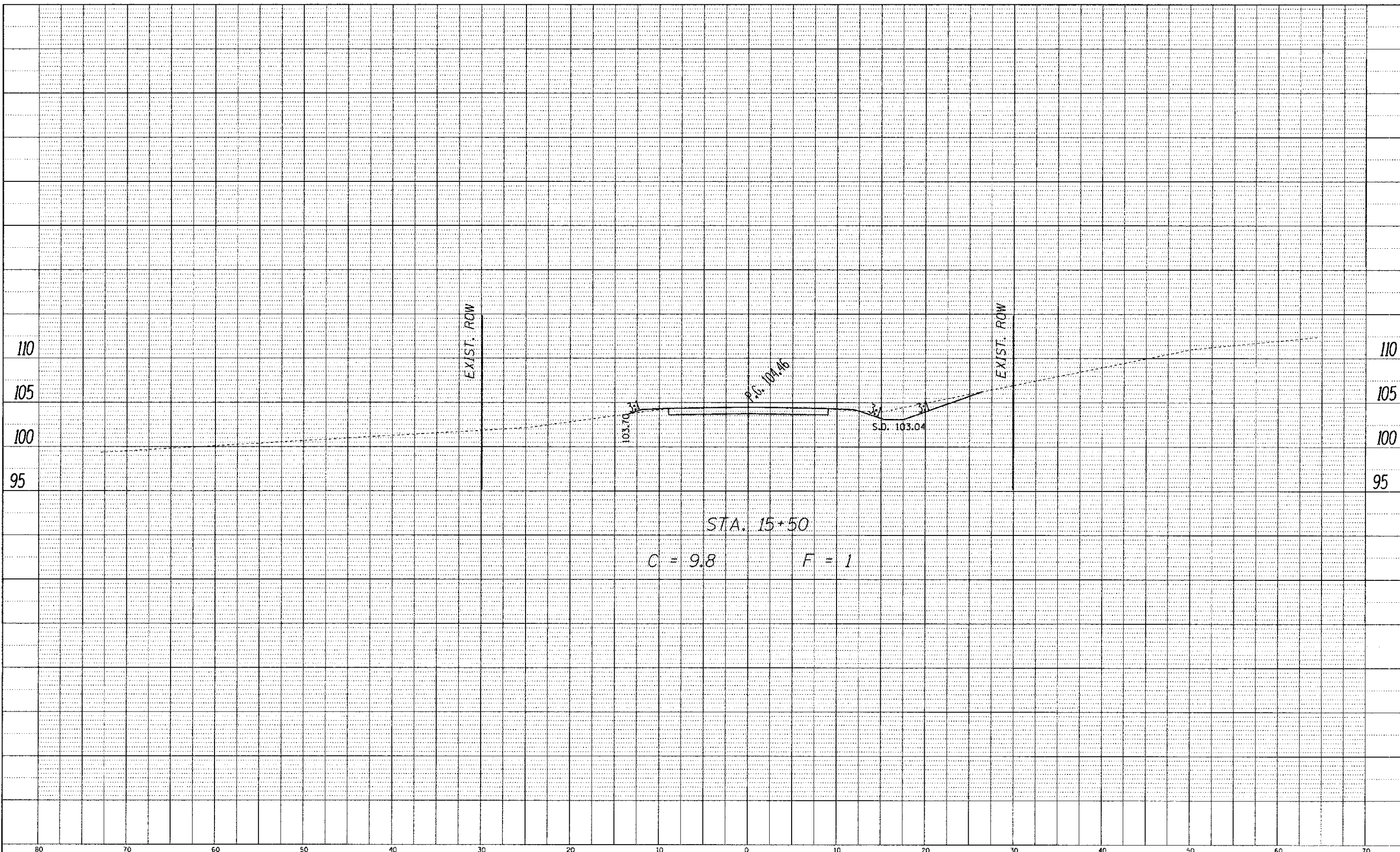
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROADWAY CROSS SECTIONS  
EXISTING & PROPOSED  
SCALE: SHEET NO. OF SHEETS STA. TO STA.

| F.A.S. RTE.               | SECTION        | COUNTY    | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|-----------|--------------|-----------|
| 57                        | 06-03111-00-BR | CHRISTIAN | 17           | 16        |
| CONTRACT NO. 93601        |                |           |              |           |
| ILLINOIS FED. AID PROJECT |                |           |              |           |

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|                       | PLCT SCALE : #SCALE# | DRAWN -    | REVISED - |  | SCALE:   | SHEET NO. | OF SHEETS | STA.                 | TO STA.                   | CONTRACT NO. 93601<br>ILLINOIS FED. AID PROJECT |                    |                 |
|                       | PLOT DATE : #DATE#   | CHECKED -  | REVISED - |  |  |           |           |                      |                           |   |                    |                 |
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