

**OCT** 3 1986

# \* Standard Drawings:

| Superstructure Details             | SD-1-65         | Sheets 1, 2, & 3<br>Dated 11-8-65 |
|------------------------------------|-----------------|-----------------------------------|
| Railing                            | BR-1-67         | Sheet 1                           |
| Rockers & Bolsters                 | RB-1-55         | Dated 2-1-68<br>Revised 2-2-59    |
| Approach Slabs<br>Highway Lighting | AS-1-67<br>HL-4 | Revised 1-11-68<br>Dated 1-1-66   |
| Highway Lighting                   | HL-4            | Dated 1-1-66                      |

### Supplemental Specifications:

| Water-Reducing, Set-Retard-<br>ing Admixture<br>Examination of Welds, Parts | 808 | Dated 1-1 -69    |
|---|-----|------------------|
| I & II  | 811 | Dated 1-1-69     |
| Concrete Surface Treatment  | 825 | Revised 1 -1 -69 |

#### Common Details:

| Lighting           | Sheet No. 465 |
|--------------------|---------------|
| Contraction Joints | Sheet No. 466 |
| Scuppers           | Sheet No. 466 |
| Curb Plate Details | Sheet No. 466 |

DESIGN SPECIFICATIONS: This structure conforms to "Standard Specifications for Highway Bridges" adopted by the American Association of State Highway Officials, 1965, including the Ohio "Supplement" to these specifications.

#### DESIGN DATA:

Design Loading: HS 20-44

Concrete Class C: Unit stress 1200 p.s.i. for super-

Unit stress 1333 p.s.i. for substruc-

ture.

Structural Steel, ASTM A36-unit stress 20,000 p.s.i.

Reinforcing Steel, ASTM A615, A616, A617 Deformed, Inter-

mediate or Hard Grade. Unit stress 20,000 p.s.i.

except that spiral reinforcement shall be plain bars, A306 or A499.

### WELDS

Welds on non-stress carrying members are indicated thus:



#### FOUNDATION BEARING PRESSURE

Abutment and pier footings are designed for a maximum bearing pressure of 2.5 tons per sq. ft.

PROCEDURE: Prior to the excavation for the substructure units the following procedure shall be followed:

- 1. The area from 701 + 50 to 702 + 29, as indicated on the Site Plan, shall be excavated to elevation 646 using a 1:1 slope from the existing ground surface to elevation 646.
- 2. Settlement platforms shall be placed as indicated in the Roadway Plans.
- 3. An embankment surcharge shall be placed to elevation 680, from approximately 699 + 85 to 702 + 20. The top of the embankment shall extend from 10 feet outside the south fascia of the southbound structure to 10 feet outside the north fascia of the northbound structure. The embankment shall be placed with a 1:1 slope normal to the fascias down to the permanent embankment.
- 4. The Engineer shall observe the settlement platforms to determine when the embankment surcharge may be removed. It is anticipated that the settlement of the underlying material will be completed within 4 to 6 months after the completion of the embankment.
- 5. After the settlement is complete, as noted in 4, the surcharge may be removed. The embankment for the abutments shall then be constructed to the level of the subgrade for a minimum distance of 200 feet back of the abutments prior to the excavation for the abutments and piers 1 and 3.

#### SETTLEMENT PLATFORMS

Description: This item shall consist of furnishing all necessary materials for the construction, placing and maintaining of settlement platforms as detailed on the Plans and at the locations ordered by the Engineer. At the option and expense of the Contractor additional settlement platforms may be installed at locations approved by the Engineer.

Materials: Lumber for the base shall be 1" X 6" T. & G. sound lumber. Pipe shall be 2 1/2" standard black pipe with threaded fittings as shown on the Plans. A steel plate, 36" X 36" X 1/8", may be furnished instead of lumber for the platforms, at the contractor's option.

Construction Methods: The 3' X 3' platform shall conform with the details shown on the Plans. The platform shall be carefully set and leveled. The pipes, firmly secured by flanges to the platforms, shall be kept plumb. If the platforms or pipes are disturbed during construction they shall be restored to their proper condition. Pipes shall be marked at intervals by the Contractor to facilitate measurement of the depth of fill and settlement. The Contractor shall stop work in any location where any settlement platforms have been disturbed or damaged until the necessary maintenance or replacement has been performed.

Prior to paving, the settlement platform extension shall be cut off 2 feet below the top of the finished surface of the subgrade or topsoiled surface, whichever is applicable.

Method of Measurement: The amount to be included under the item of settlement platforms shall be the actual number of settlement platforms completed, maintained and accepted, as called for on the Plans or directed by the Engineer. No payment will be made for settlement platforms which are displaced or destroyed by the Contractor's operations during construction.

Basis of Payment: Settlement platforms will be paid for at the contract unit price each for "Settlement Platforms", which price shall include furnishing and installing, including all materials, equipment, tools, and labor incidental thereto and maintaining and replacing them subsequently, if deemed necessary by the Engineer, and burning and removing extensions as directed by the Engineer. Payment for settlement platforms is included with the roadway quantities.

 FEB. NO. DIVISION
 STATE
 PROJECT
 393

 2
 OHIO
 502

ATHENS COUNTY ATH -33~12.96

|  |  |   | ESTIMATED QU                           | ANT  | ITIE   | 5 (  | 2 BR   | 'IDGE   | .S) *  | <u> </u>     |
|--|--|---|--|--|--|--|--|---|--|--------------|
| tem  | Total  | Unit  | Description                            | Abut.  | <del>y</del>   | ·  | General  |   | ATTACHER MARKET CONT.  |              |
| 503  | 1353   | C.Y.  | Unclassified Excavation                | 710  | 643  | -  |  |   |  |              |
|  |  |   |  |  |  |  |  |   |  |              |
| 509  | 408,660  | Lb.   | Reinforcing Steel                      | 24185  | 109.708  | 274,767  |  |   |  |              |
| Lun  | 413,741  |   |  | 4  | 714.785  |  |  |   |  | 1            |
| 511  | 925  | C.Y.  | Class "C" Concrete, Superstructure     | <u> </u>   |  | 925  |  |   |  |              |
| 511  | 232  | C.Y.  | Class "C" Concrete, Pier Caps and      |  |  |  |  |   |  |              |
| <del></del>  |  |   | Columns                                |  | 232  |  |  |   |  |              |
| 511  | 330  | C.Y.  | Class "C" Concrete, Abutments          |  |  |  |  |   | **************************************   | *            |
| <u> </u>   | 330  |   | above Footings                         | 330  |  |  |  |   | <u></u>  | 1            |
| 511  | 373  | C.Y.  | Class "C" Concrete, Footings           | 133  | 240  |  |  |   |  |              |
| <u> </u>   | 3/3  | <u> </u>  | Class C Concrete, Footings             | 133  | 440  |  |  |   | <del></del>  | <del></del>  |
| 512  | 20   | L.F.  | Premolded Sealing Strip                | 20   |  |  |  |   | <del></del>  | <del> </del> |
| <u> </u>   | 40   |   | Tromorada Scarring Strip               | <u> </u>   |  |  |  |   | <del></del>  | <del> </del> |
| 517  | 939,600  | Th  | Structural Steel                       |  |  | 939,600  |  |   |  |              |
| <u> </u>   | 300,000  | no.   | octuctural occer                       | •  |  | 333,600  |  |   | -t   |              |
| 511  | 939,600  | T b   | Field Painting of Structural Steel     | ——————————————————————————————————————   |  | 939600   |  |   |  | <b> </b>     |
| <u> </u>   | 900,600  | LU.   | Field Fainting of Structural Steel     | ***************************************  |  | 939,600  |  |   | •  |              |
| 518  | 120  | C.Y.  | Porous Backfill                        | 120  |  |  |  |   | <del></del>  | <b>_</b>     |
|  | <u> </u>   | <del></del>   |  | 120  |  |  |  |   |  | -            |
| 518  | 210  | L.F.  | 6" Perforated, Helical Corrugated      |  |  |  |  |   |  | <b></b>      |
| FIA  | 200  |   | Metal Pipe, including specials,7070    | 210  | , , , , , , , , , , , , , , , , , , ,  |  |  |   |  |              |
| 518  | 298  | L.F.  | 6" Non-perforated, Helical Corru-      |  | <u> </u>   |  |  |   | The state of the s |              |
| <b>=</b> - ^   |  |   | gated Metal Pipe, 707.01               | 298  |  |  |  | ***************************************   |  |              |
| 518  | 20   | Each  | Scuppers, including supports           |  |  | 20   |  |   |  |              |
|  |  |   |  |  |  |  |  |   |  |              |
| 601  | 3190   | Sq.Yd   | Crushed Aggregate Slope Protection     |  |  |  | 3,190  |   |  |              |
|  |  |   | ·                                      |  |  |  |  |   |  |              |
| 625  |  |   | See sheet (373) for Lighting Sum-      |  |  |  |  |   |  |              |
|  |  |   | mary                                   |  |  |  |  |   |  |              |
|  |  |   |  |  |  |  |  |   |  |              |
| 808  | 925  | Units   | Water Reducing, Set Retarding Ad-      |  |  |  |  |   |  |              |
|  |  |   | mixture                                |  |  | 925  |  |   |  |              |
|  |  |   | -                                      |  |  |  |  |   | ***************************************  |              |
| 825  | 3700   | Sa.Yd   | Concrete Surface Treatment             | 50   |  | 3.650  |  |   |  |              |
|  |  |   |  |  |  |  |  |   | ,  |              |
| a je skoje ji a maska skujoje sak r <del>ak</del> tika skun <b>i m</b>   | and described the control of the con |   |  |  | ***************************************  |  | 97 Araban - Salan Barata (1971 - 1984) - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - | ***************************************   | ······································   |              |
|  | and the second s |   |  |  |  | · · · · · · · · · · · · · · · · · · ·  |  | Peter Start from the |  |              |
|  | **************************************   |   | ************************************** | or you are an analysis of the second contract co | erakun ayan manan manayor, dalada da karanda yang ungun yang - dagan, mara 1,50  | and the state of t |  | ***************************************   | ***************************************  | <del> </del> |
|  | e (the comment of the the Anthropia of the desire Association (Association and Association and | n. (Nat 1 tr. or a source) requestance (recess) or up to disperse to the synthetic up up a  |  |  |  |  |  |   | And the second s |              |
|  | gift-draw, and figher Mean to the Market problem to the first own selection and the second   |   |  | and the second s | ***************************************  |  | Pd 4 - W 4 * A * A - A - A - A * A * A * A * A * A   |   | A  |              |
| th or hardefrequence resigns of the Arthur o | aga albhruir. Mustradir a whilesturgicanatashapapa   | and the second supplies an emphysion of the second of the second |  | projek i virige sociale in milasponosiamiskimiski ki anta  | de en algun mar Michael (partigen en en administration) appropriation (partigen) |  |  | hemanican   | Managara da  |              |
| ,  |  | 3   | izy Participation)                     | ······································   |  |  |  |   |  | <u> </u>     |

\* Primary (No City Participation)

### MAINTENANCE OF TRAFFIC

Two lanes of traffic with a minimum horizontal width of 24' and a minimum vertical clearance of 14' shall be maintained on U.S.50A at all times.

#### JOINT SEALER:

Item 828 joint sealer including bond breaker, shown in Section A-A of Std. Dwg. SD-1-65, Sheet No. 1, shall be omitted.

COLUMBUS ENGINEERING CONSULTANTS, LTD.

Consulting Civil Engineers

Columbus, Ohio

Successors to

ATKINS MERCER-UNDERWOOD, LTD.

3 20

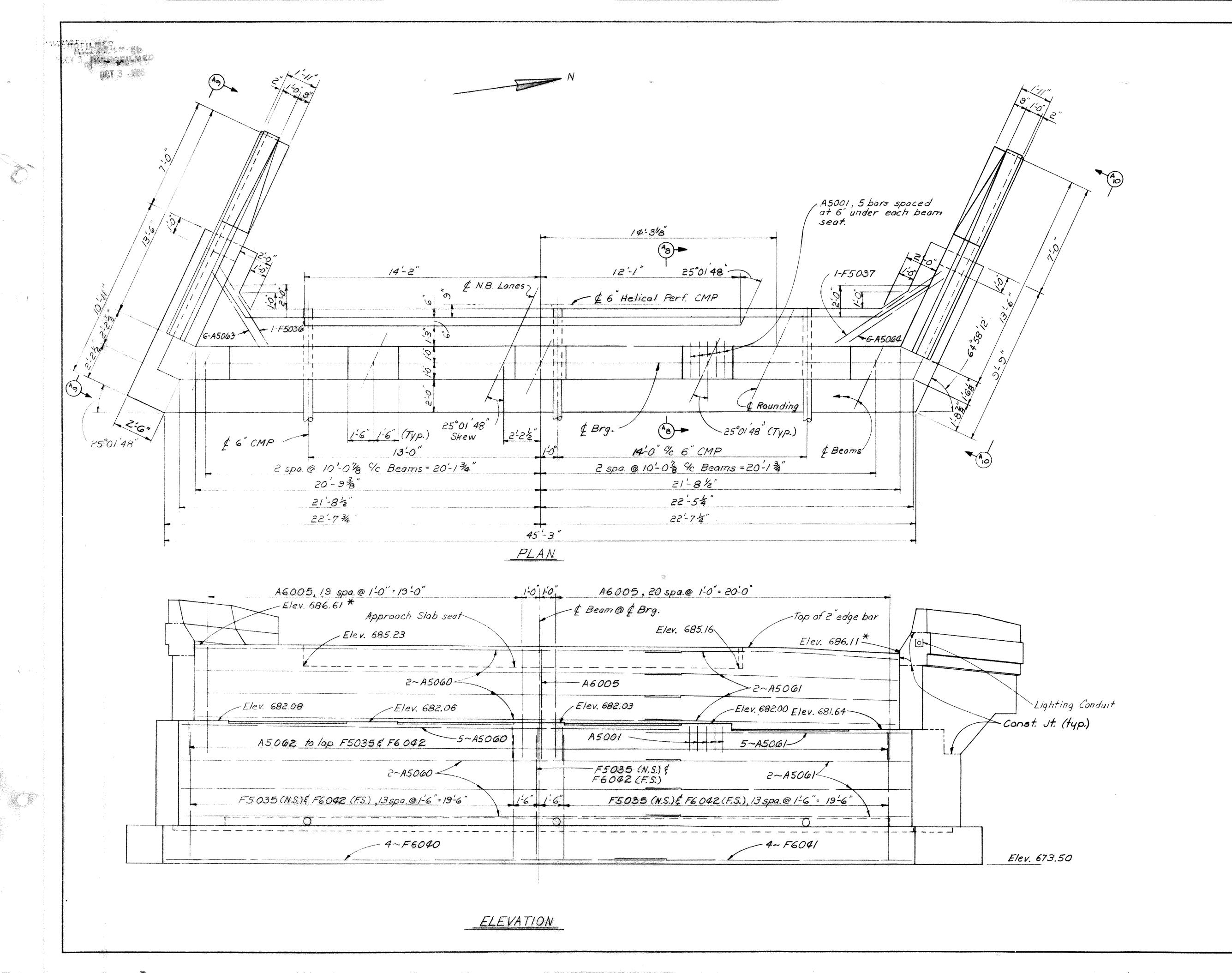
GENERAL NOTES AND

ESTIMATED QUANTITIES

BRIDGE Nº ATH-33~1325 L&R

U. S. 33 OVER U.S 50A Sta. 699+82.22 N.B. \$ 699+68.22.S.B. ATHENS COUNTY to Sta. 702+49.68 N.B. \$ 702+82.18 S.B.

JP GTR GEA TLU 1/24/69 2-5-69



394 502 FED. RD. Division STATE 2 OHIO

ATHENS COUNTY ATH -33-12.96

## NOTES

\*Elevations marked with an asterisk are at top of \$\mathcal{Q}\$ of 2"edge bar at face of curb.

Reinforcing Steel Location
N.S. indicates near side F.S. indicates for side

Porous backfill shall be placed between the inside faces of the wingwalls and shall extend upward to the approach slab. Excavation therefore in excess of that required for construction of the abutment shall be considered as poid for in the bid price per cubic yard for porous backfill.

For Contraction Joint Detail see Common Detoils (466)

6" Helical Perforated CMP shall have all end copped.

For detail of lighting conduit in abutment backwall see Standard Construction Drawing HL-4.

For additional details see sheets 5/20 { 6/20

For additional notes and details see Std. Dwg. BR-1-67, Sheet Nº 1.

Field bending of abutment bors to be included with Item 509 for payment

Adjustable type elbows meeting specification requirements for gage and coating are acceptable for making bends in perforated corrugated metal pipe. Elbows and the stem of tees need not be perforated.

For quard rail connections see 5td. Dwg. BR-1-67 sheet 1 of 3.

For details of lighting conduit in abutment roiling see Bridge Lighting Details sheet 465

Provide break in end dam at contraction joints.

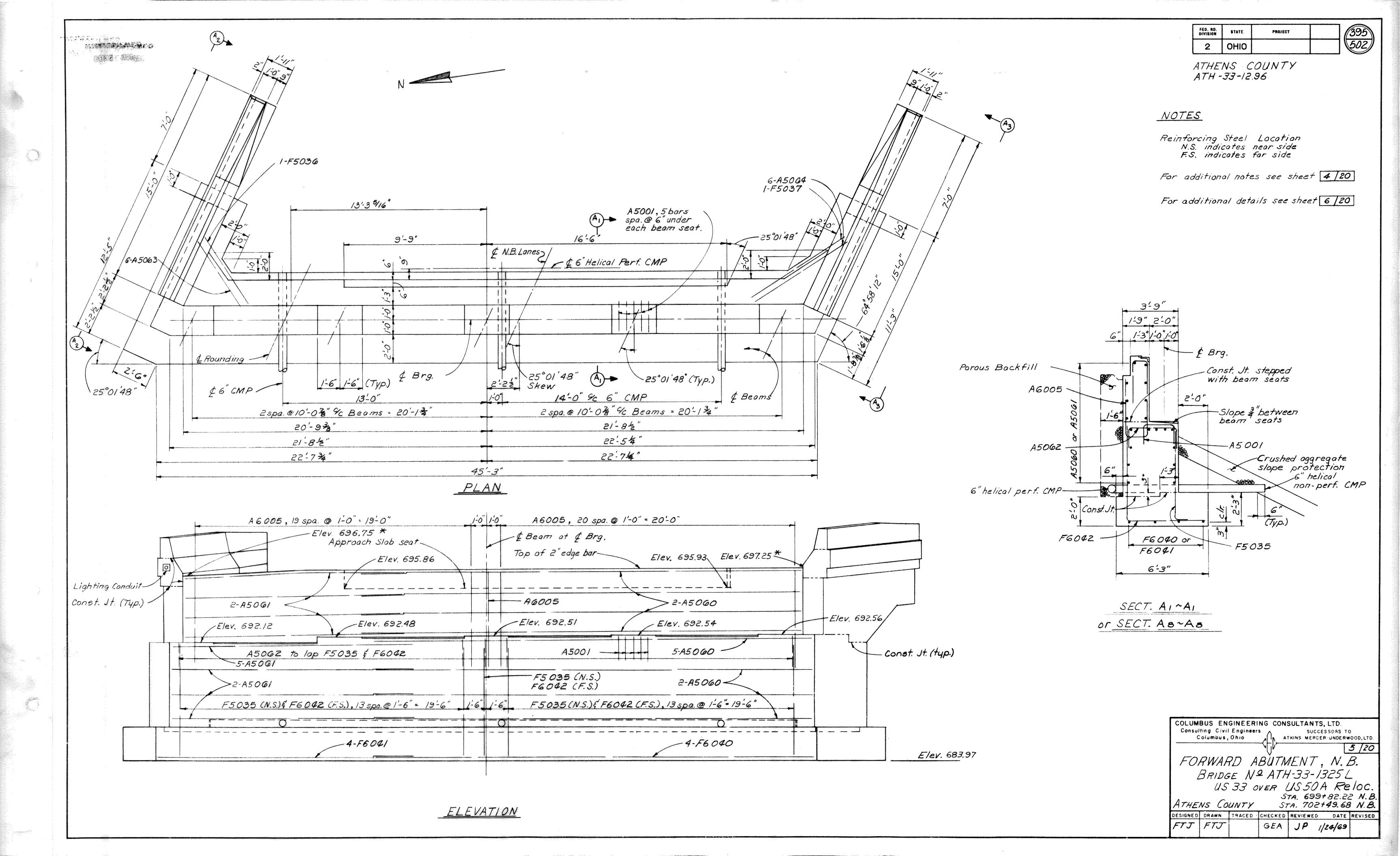
COLUMBUS ENGINEERING CONSULTANTS, LTD. Consulting Civil Engineers SUCCESSORS TO ATKINS MERCER UNDERWOOD, LTD Columbus, Ohio 4/20

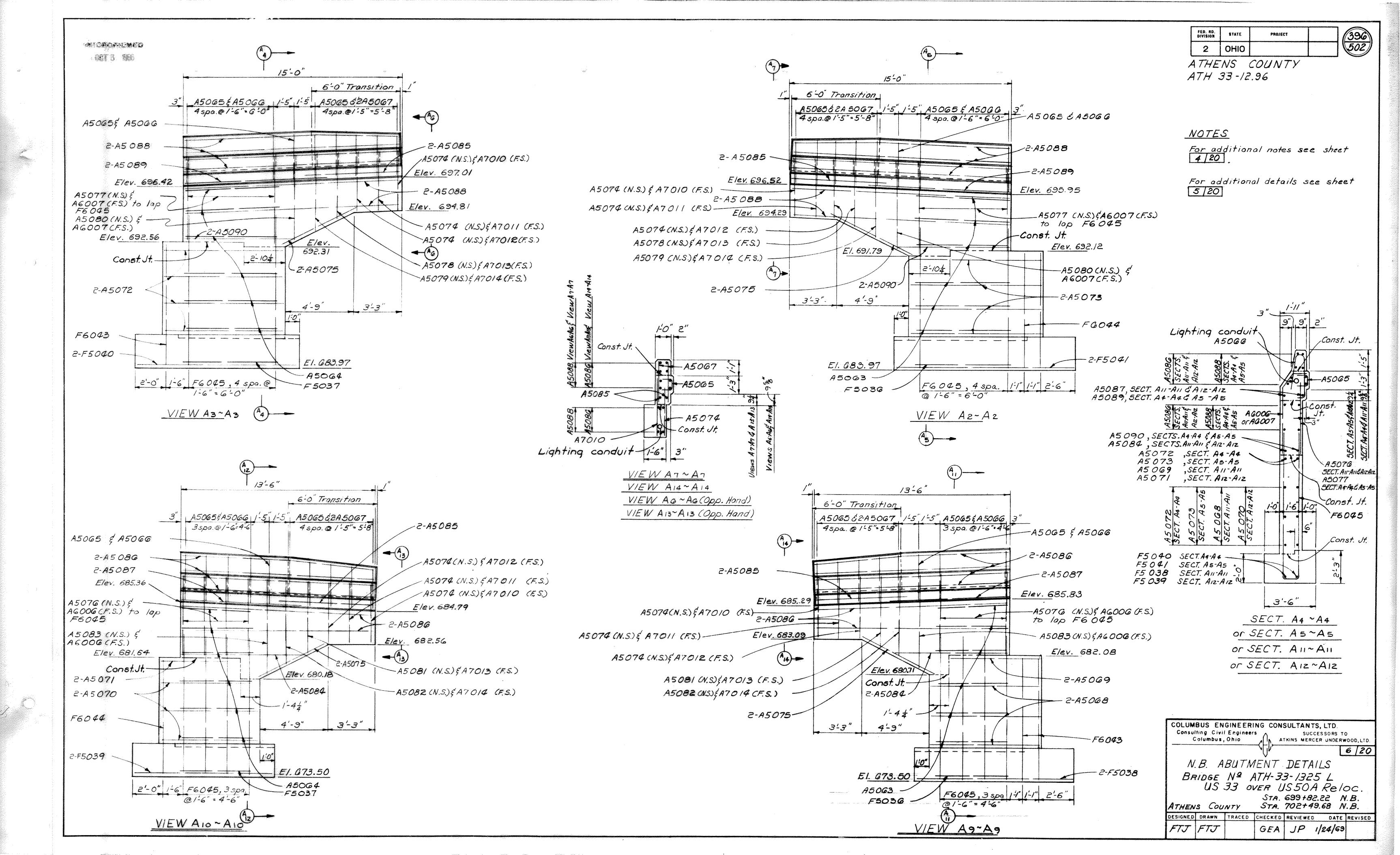
REAR ABUTMENT N.B. BRIDGE Nº ATH-33-1325 L US 33 OVER US 50 A Reloc. STA. 699+82.22 N.B. STA. 702+49.68 N.B.

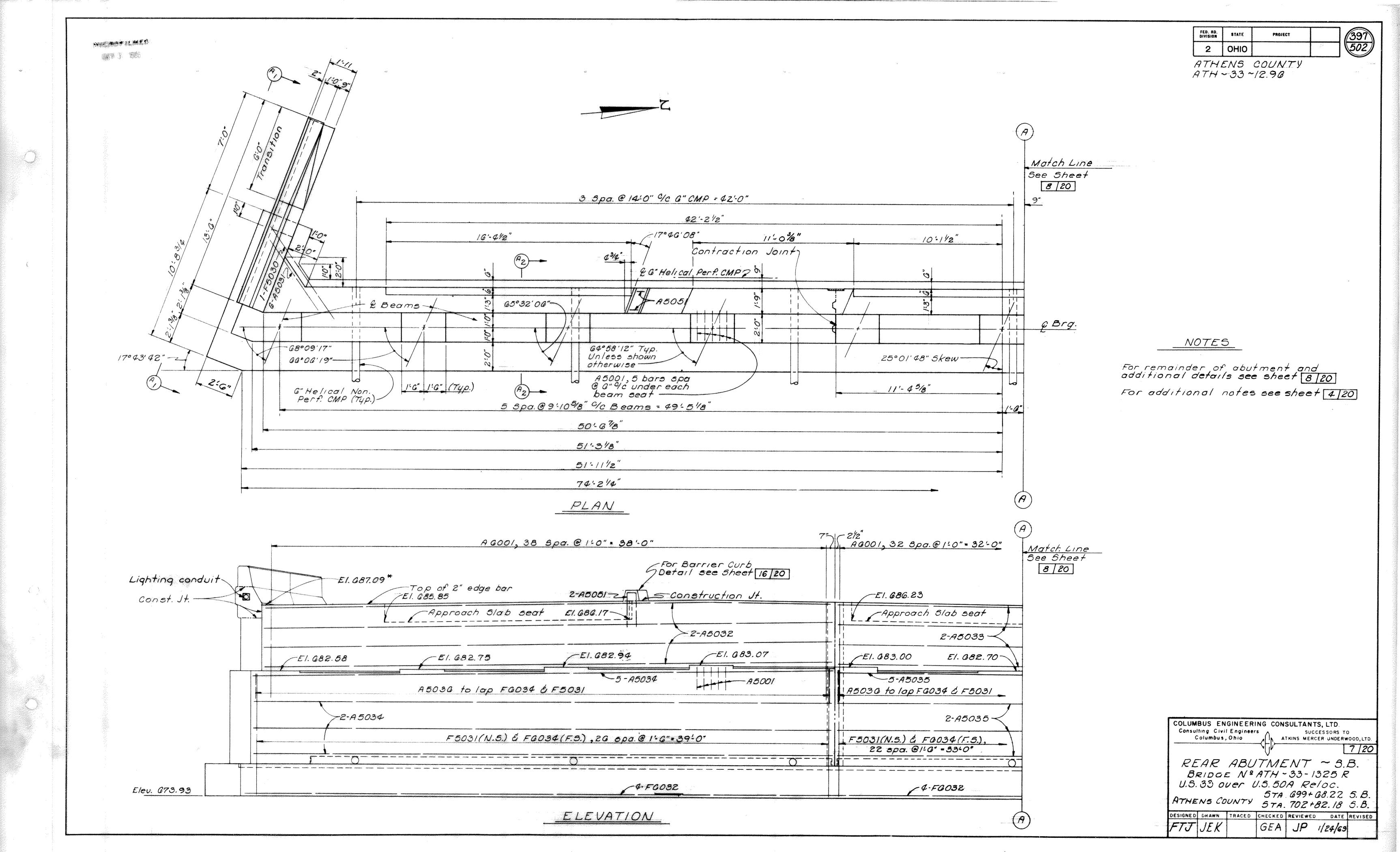
ATHENS COUNTY

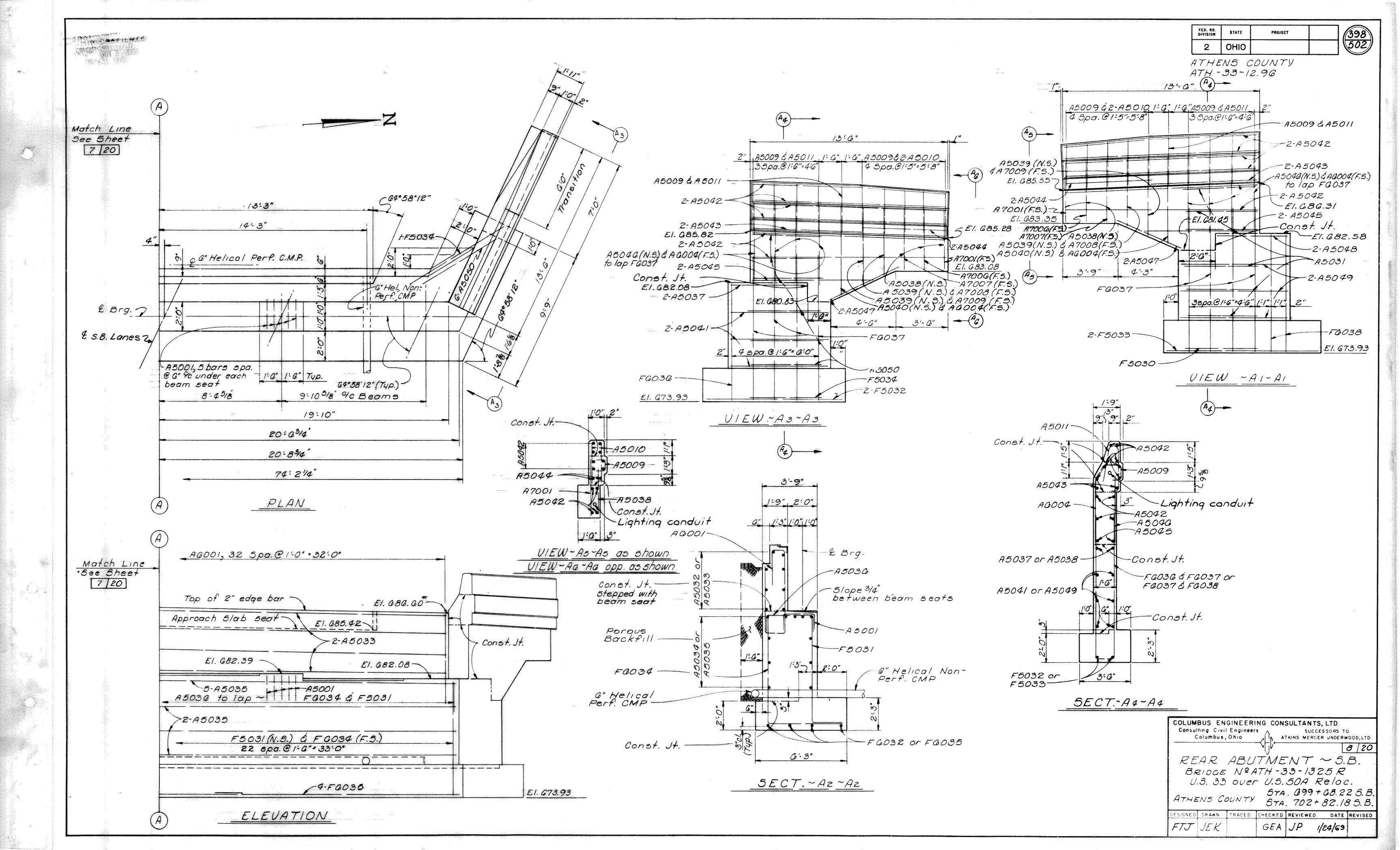
DESIGNED DRAWN TRACED CHECKED REVIEWED DATE REVISED

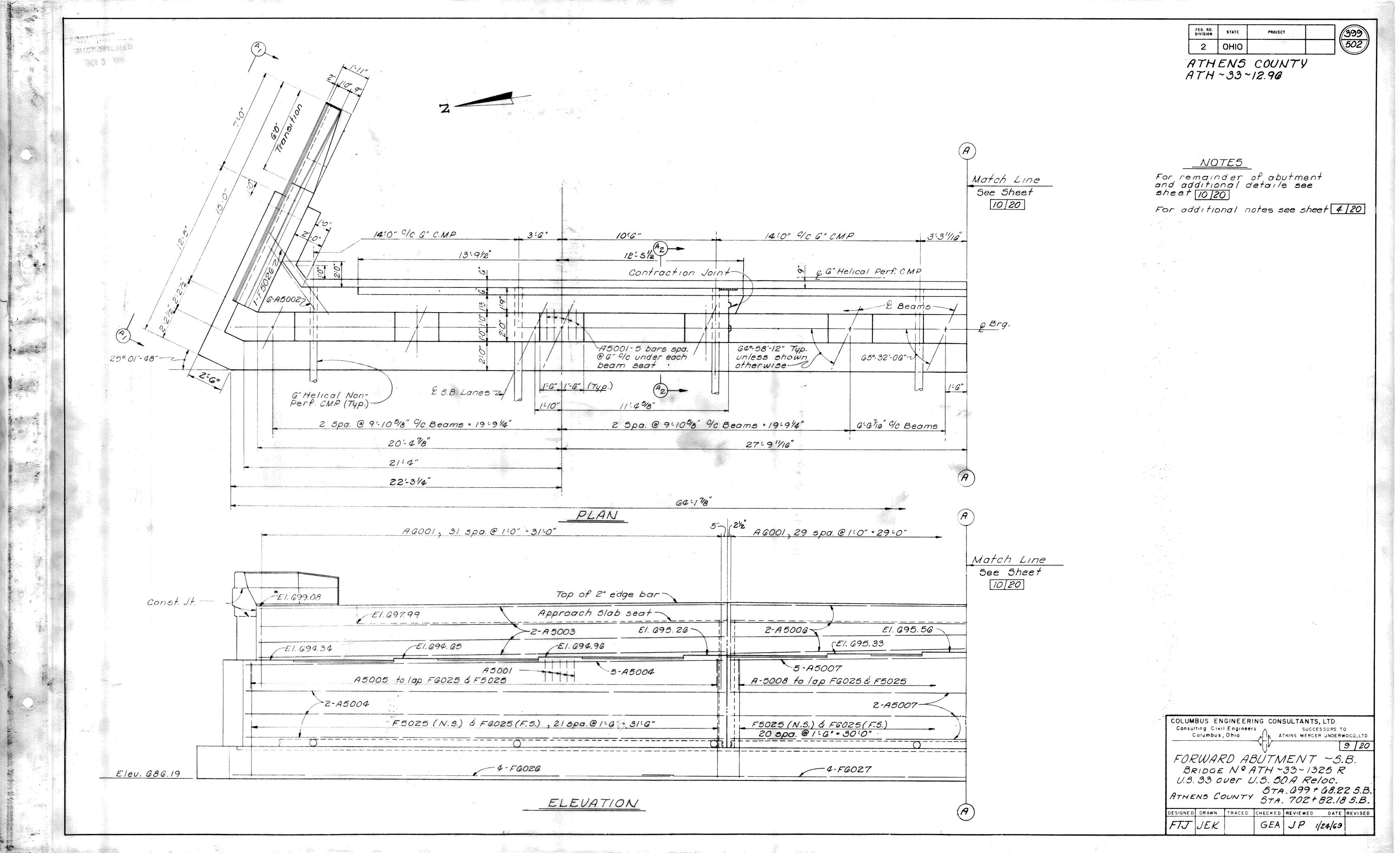
GEA JP 1/24/69 FTJ FTJ

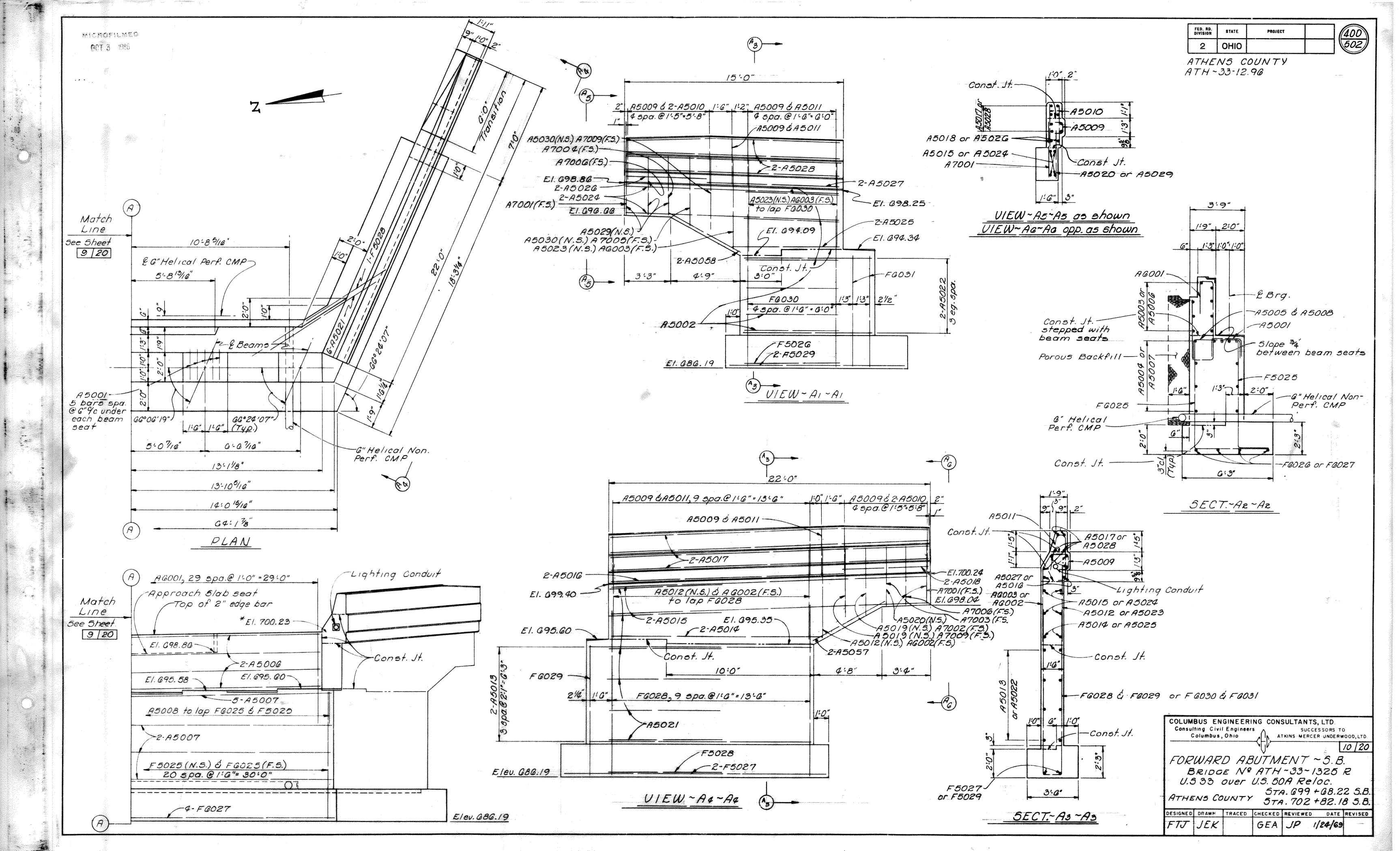


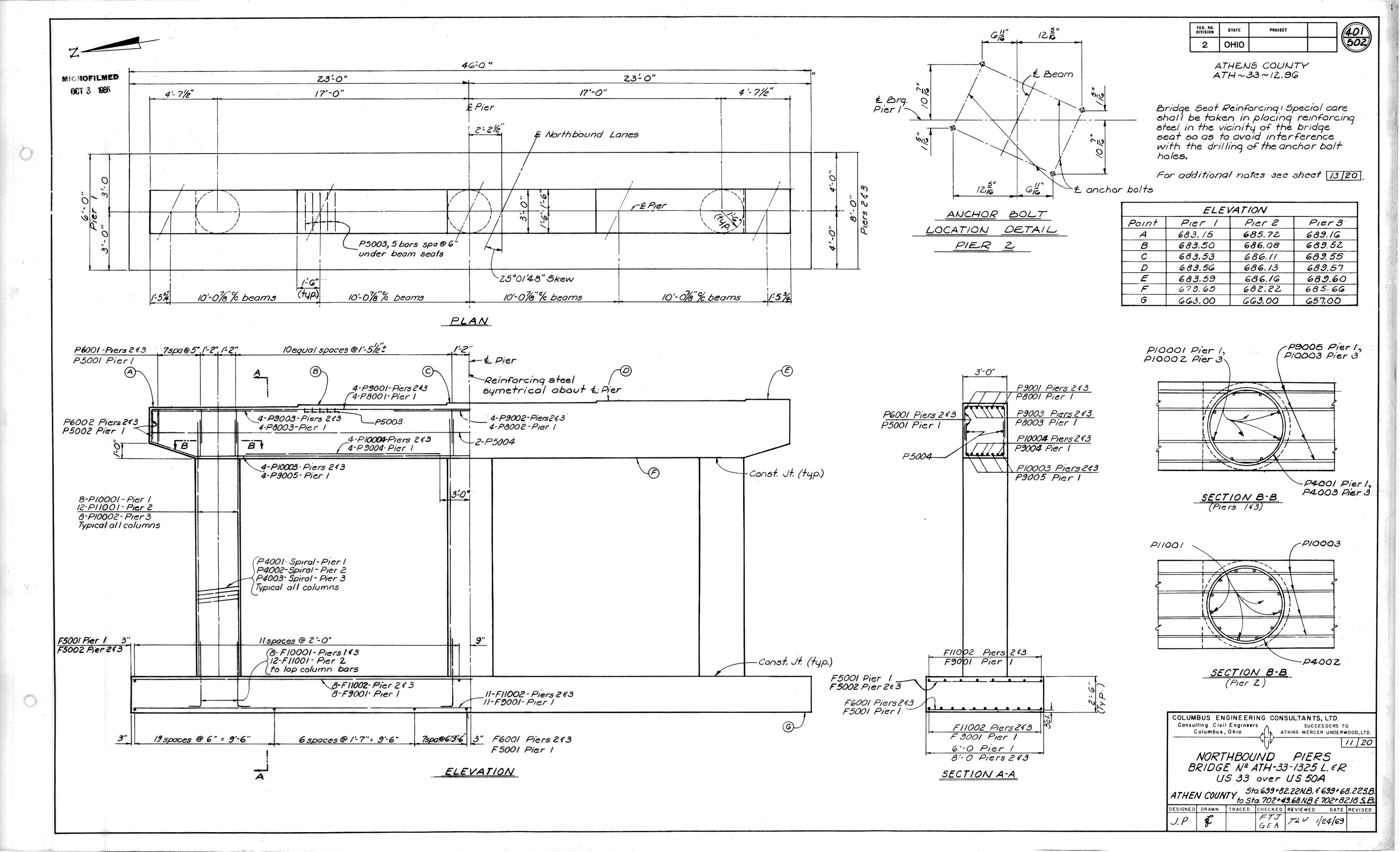


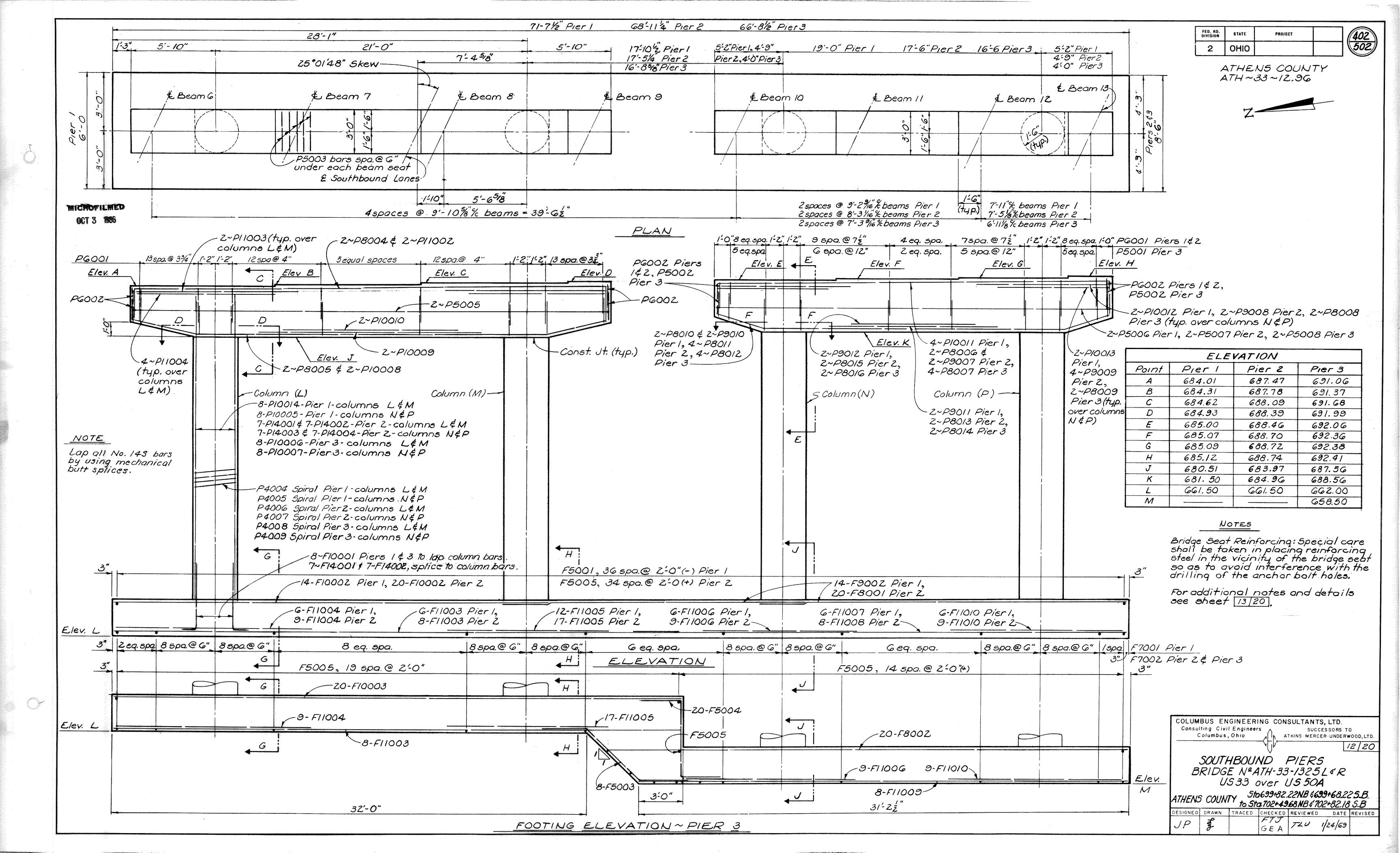


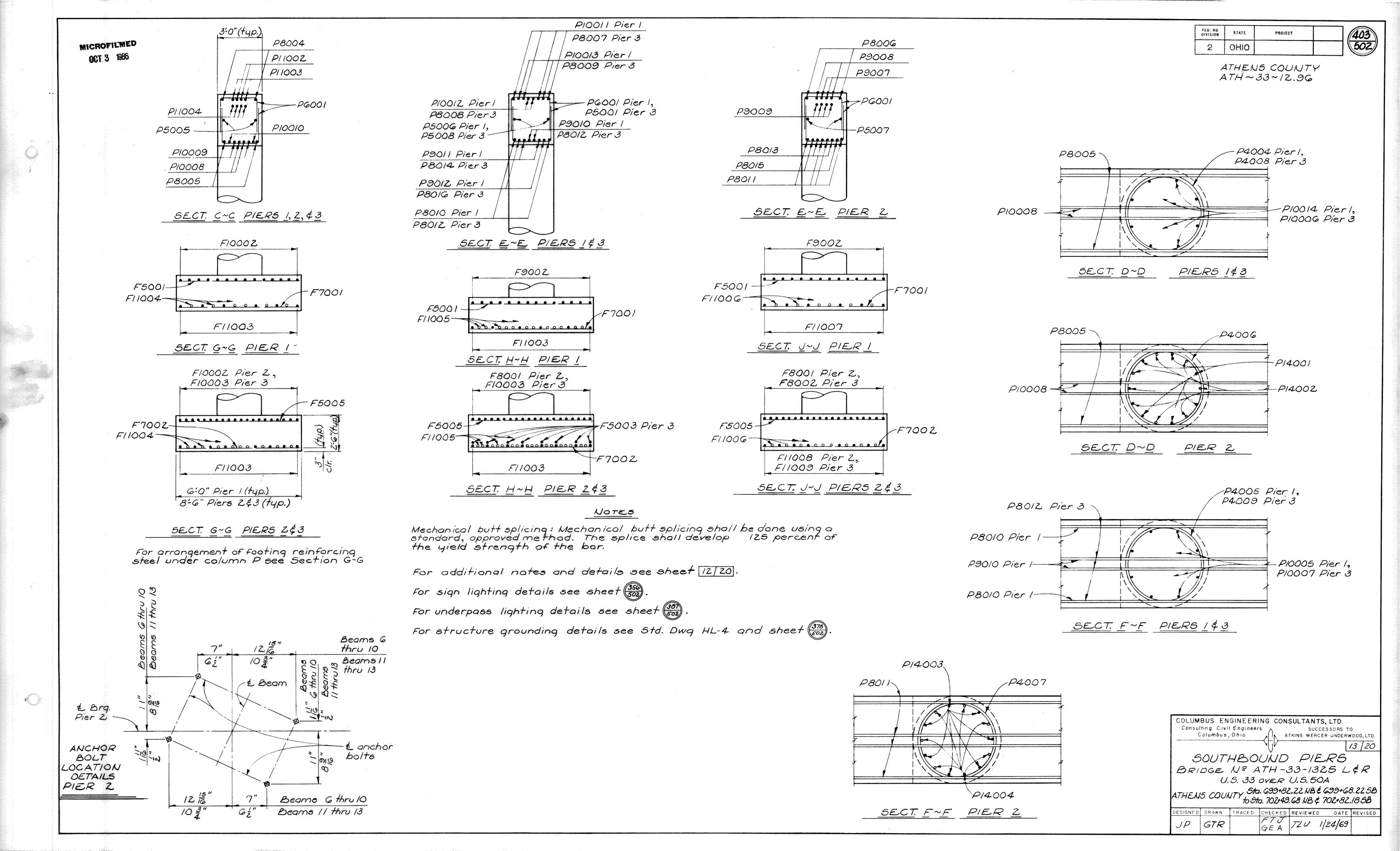


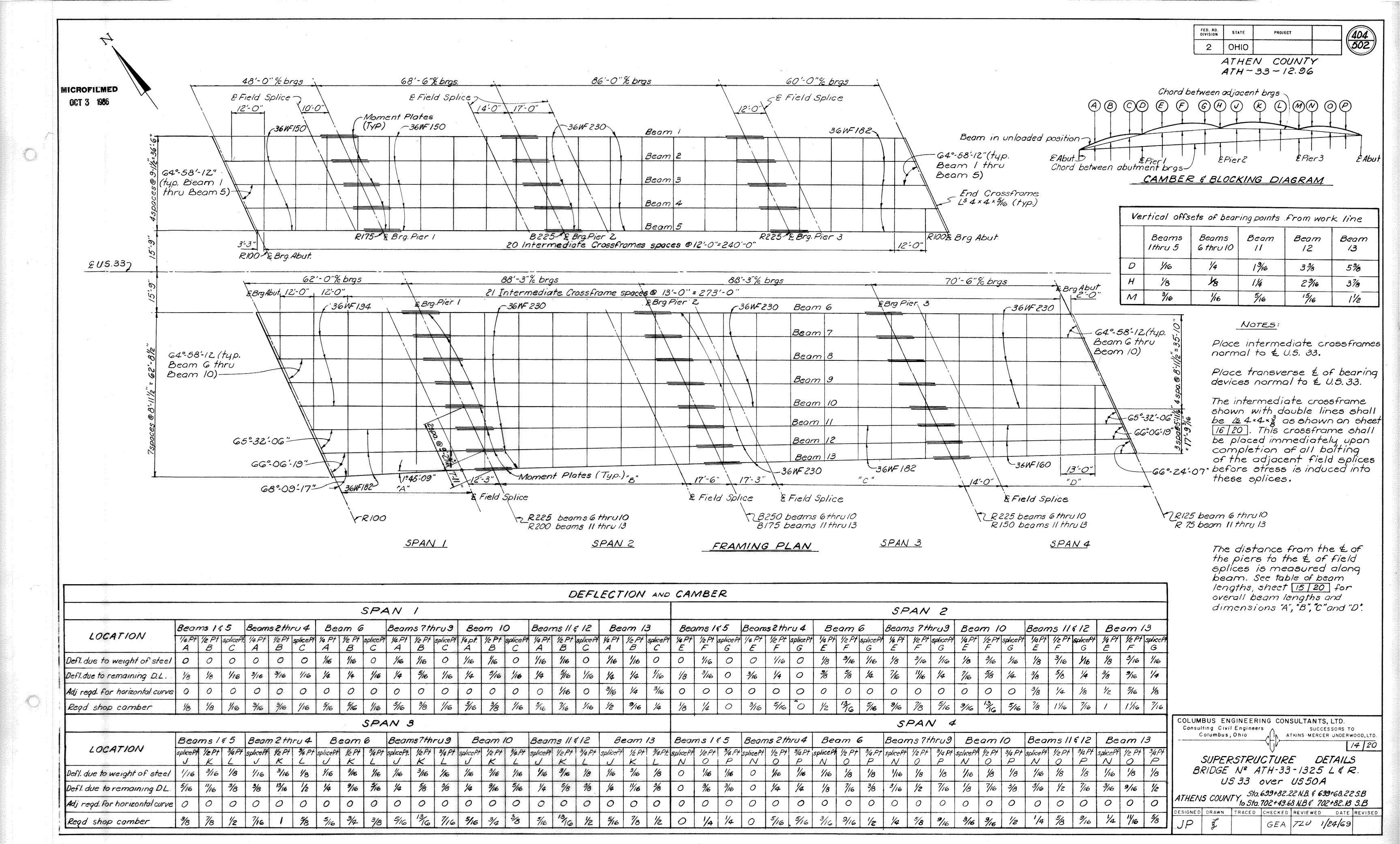












MICROFILMED

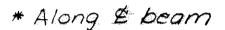
GCT 3 1986

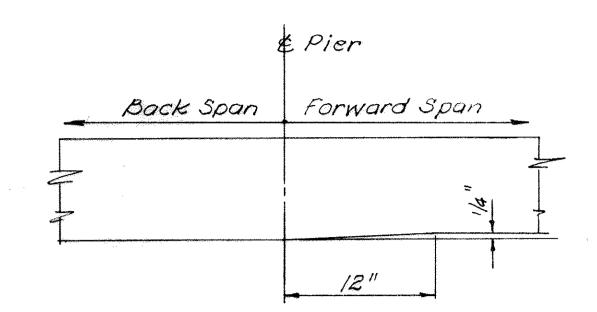
| FEO. RD,<br>DIVISION | STATE | PROJECT |  |
|----------------------|-------|---------|--|
| 2                    | OHIO  |         |  |

<u>405</u> 502

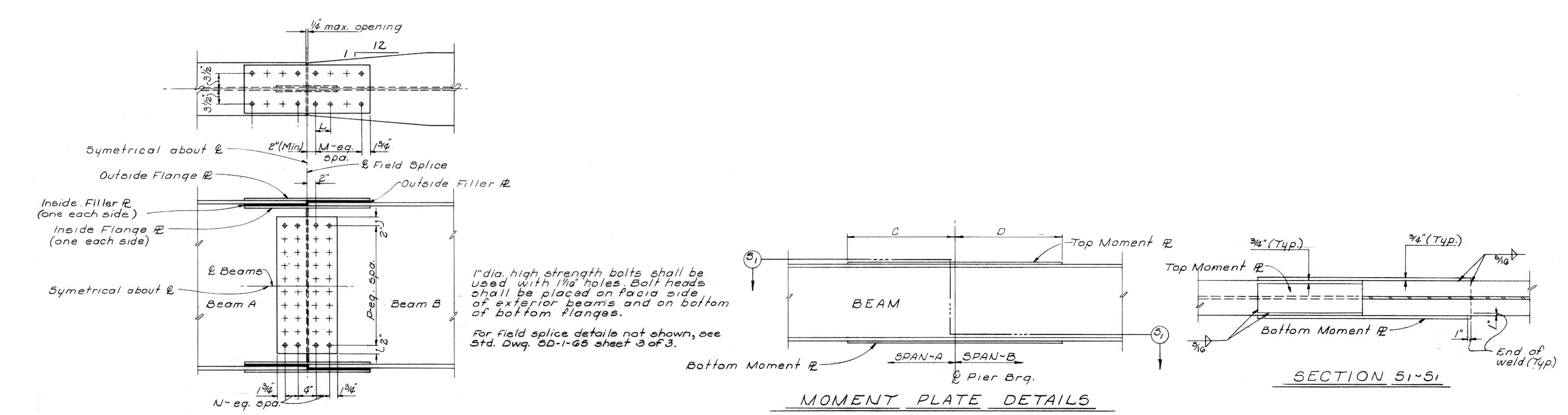
ATHENS COUNTY ATH-33-12.96

|   | TABLE   | OF     | BEAI     | V L      | ENGTH   | 5        |                    | DIMENS   | 510N *    |           |
|---|---------|--------|----------|----------|---------|----------|--------------------|----------|-----------|-----------|
| F | BEAM    | Nº     | SPAN 1   | SPAN 2   | SPAN 3  | SPAN 4   | "A "               | "B"      | " C"      | (D)       |
| Z | Beams 1 | thru5  | 48'-0"   | 08'-0'   | 86:0"   | 00:0"    | 38 <sup>1</sup> 0" | 54'-6"   | 69'-0"    | 48'-0"    |
| Z | Beams 6 | thru10 | 62:0"    | 88'3'    | 8843"   | 70:0"    | 49'-9"             | 70'-9"   | 71'~ 0"   | 56'-6"    |
|   | Beam    | •      | 1        | 1 -      | 87:10/4 |          |                    | 70'-4/4" |           |           |
|   | Beam    | 12     | 61:55/16 | 87'5416  | 8715/2" | 69:103/8 | 49'-25/6           | 69'-11%" | 70'-21/2" | 55'~ 10%" |
|   | Beam    | /3     | 60'8'8   | 87:31/8" | 87:3/8" | 69:81/2" | 48'-5%"            | 69'-9%"  | 70'-01/8" | 55-8/2"   |





HAUNCH DETAIL AT BAYS 5,647



FIELD SPLICE DETAIL

|         |          | $BEA\lambda$        | 1 5                | PL                                      | 1 C   | ` E  | P                   | LATE  | 5                  |  |    |   |
|---------|----------|---------------------|--------------------|---|-------|------|---------------------|---|--------------------|--|----|---|
|         |          | FLA                 | NOE                | *************************************** |       | 5    | PLIC                | E   | WEB 5              | PLI  | CE | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| Beam    | Beam     | FLANG               | E R                | FLG                                     | . Boi | LT5  | FILLER              | PZ.   | WEB                | WEB  | BO | LTS                                     |
| A       | <i>B</i> | OUTSIDE<br>Z REQ'D. | INSIDE<br>4 REQ'D. | Nº                                      | M     | L    | OUTSIDE<br>Z REQ'D. | INSIDE<br>4 REQ'D.                            | PLATES<br>2 REQ'D. | V\8  | N  | P                                       |
| 3GW 150 | 30W 230  | 11×7/10×2:4/2       | 412×9116×2:412     | 32                                      | 3     | 3/z  |                     | MILES AND | 13/2 x 3/8 × 2:7   | The state of the s | 1  | 9                                       |
|         |          |                     | 41/2×11/16×2:11/2  |   | 4     | 31/2 | 11×1/4×1:55/8       | 4/2 × 5/6×1-5%                                | 19/2 * 3/8 * 2:7   | 48   | 2  | 7                                       |
| 3GW 194 | 30WF 230 | 11×5/8×2:11/2"      | 4/2×3/4×2:11/2     | 40                                      | 4     | 3/2  | 11x5/16×1:55/8      | 41/2×5/16×1:55/8                              | 19/2×76×2:7        | 54   | 2  | 8                                       |
| 30W182  | 36WF160  | 11x12x2'412"        | 4/2×9/16×2:4/2     | 32                                      | 3     | 3/2  | 11×416×1-248        |   | 19/2*3/8*2:7       | 48   | 2  | 7                                       |

| ,    | 10 70 |               |           |          | · · · · · · · · · · · · · · · · · · · | ,         |                  |       | <del></del> |
|------|-------|---------------|-----------|----------|---------------------------------------|-----------|------------------|-------|-------------|
|      |       | MO            | ME        | NT       | PL                                    | A         | TE               | 5_    |             |
|      |       | 5PAN<br>A     | SPAN<br>B | BEAM     | Top Mom.<br>Plate                     | 3         | ttom<br>n. Plote | C     | D           |
| Ø,   | •     | 1             | 2         | 36W-150. | 10/2×7/6×9-0"                         | 13/2×1    | 'Z×9'0"          | 4-6"  | 4:6°        |
| X, E |       | $\mathcal{Z}$ | 3         | 36W-230  | 15 ×3/8×9:0"                          | 18 4      | 6×9'0"           | 4'-G" | 4:6'        |
| <    |       | 3             | 4         | 36W Z30  | 15×5/8×9-0"                           | 18 x14    | 16×9'-0"         | 4.6"  | 4-6         |
|      | 05    | 1             | 2         | 36WF 230 | 15×5/8×11-0"                          | 18×11/1   | 6×//:0"          | 5'-6" | 5:6         |
|      | 35    | 2             | 3         | 30WF230  | 15×5/8×16:0"                          | 18 x11/10 | 6×16:0"          | 8:0"  | 8:0"        |
| Ø    | \$ 60 | 3             | 4         | 36WF 230 | 15×5/8×14-6"                          |           |                  |       | 7:6'        |
| Ŋ    | 120   | 1             | 2         | 36WF 230 | 15×5/8×9:0"                           |           |                  |       |             |
|      | 5 5   | 2             | 3         | 36WF230  | 15×5/8×910°                           | 18 x14    | 6×9:0"           | 4:6"  | 4:6"        |
|      | 35    | 3             | 4         | 36W-182  | 10/2×7/16×12:0"                       |           |                  |       |             |

COLUMBUS ENGINEERING CONSULTANTS, LTD.

Consulting Civil Engineers

Columbus, Ohio

SUCCESSORS TO
ATKINS MERCER-UNDERWOOD, LTD.

15 | 20

SUPERSTRUCTURE DETAILS

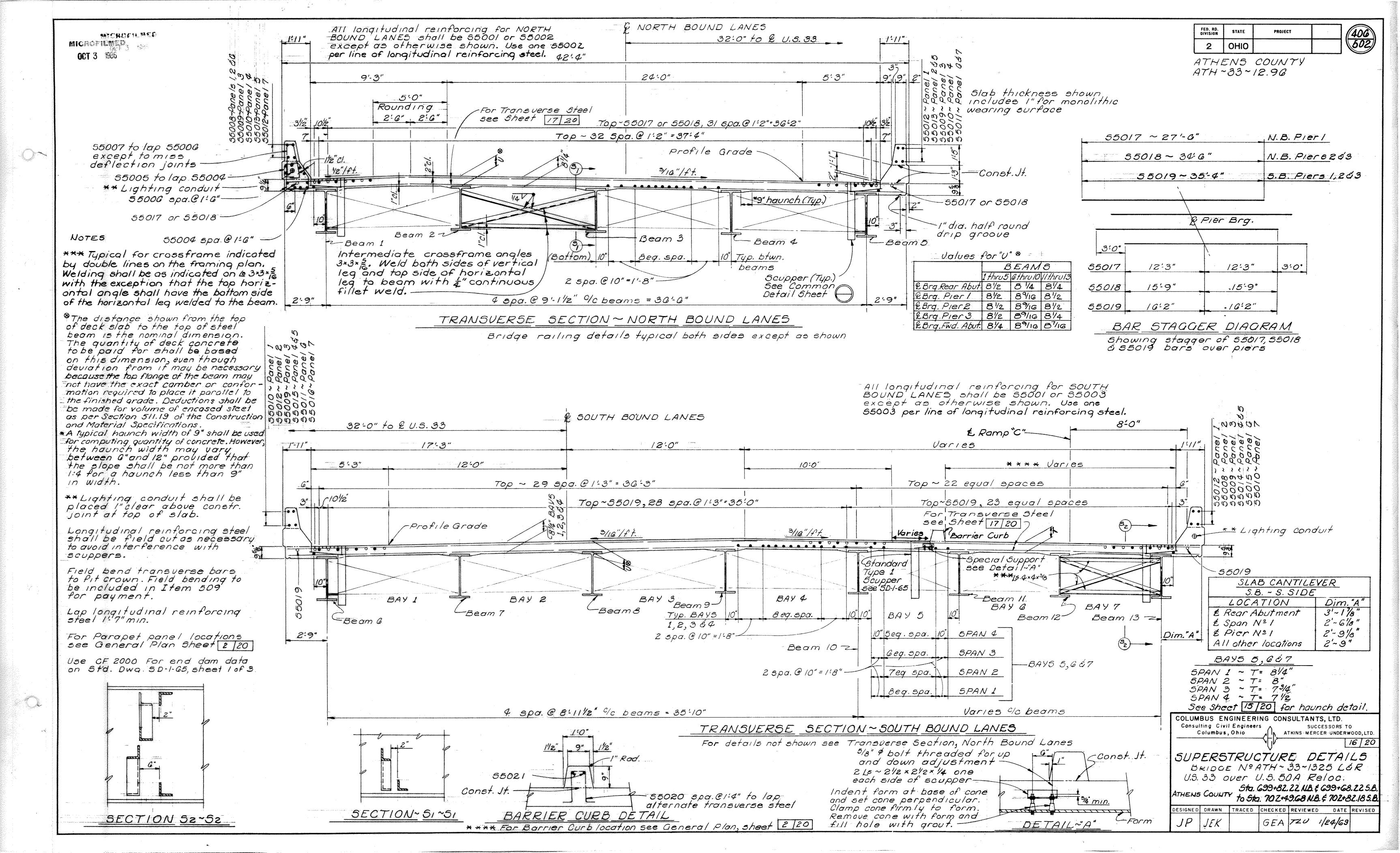
BRIDGE Nº ATH~33~1325 L&R

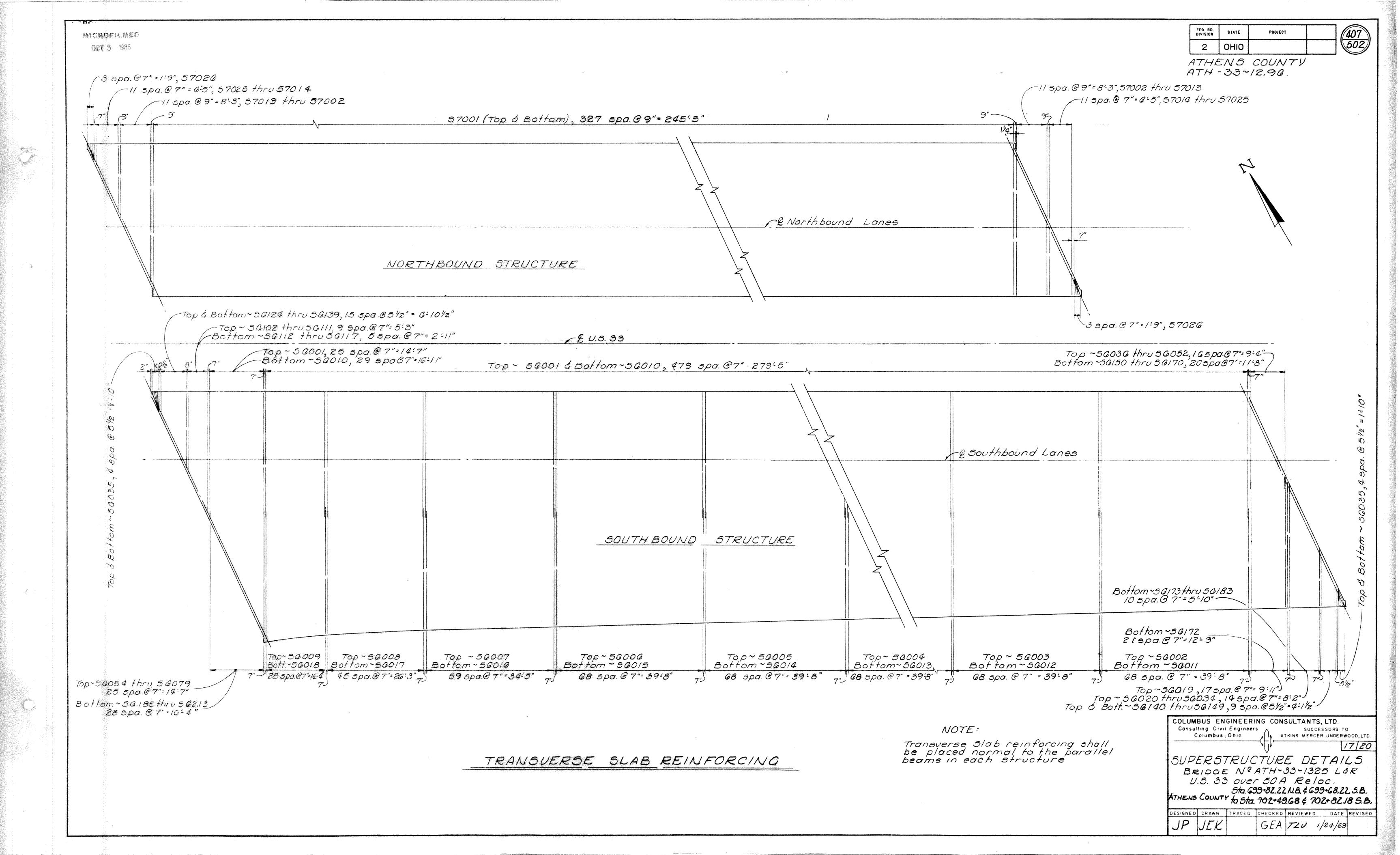
U.S. 33 OVER U.S. 50A RELOC.

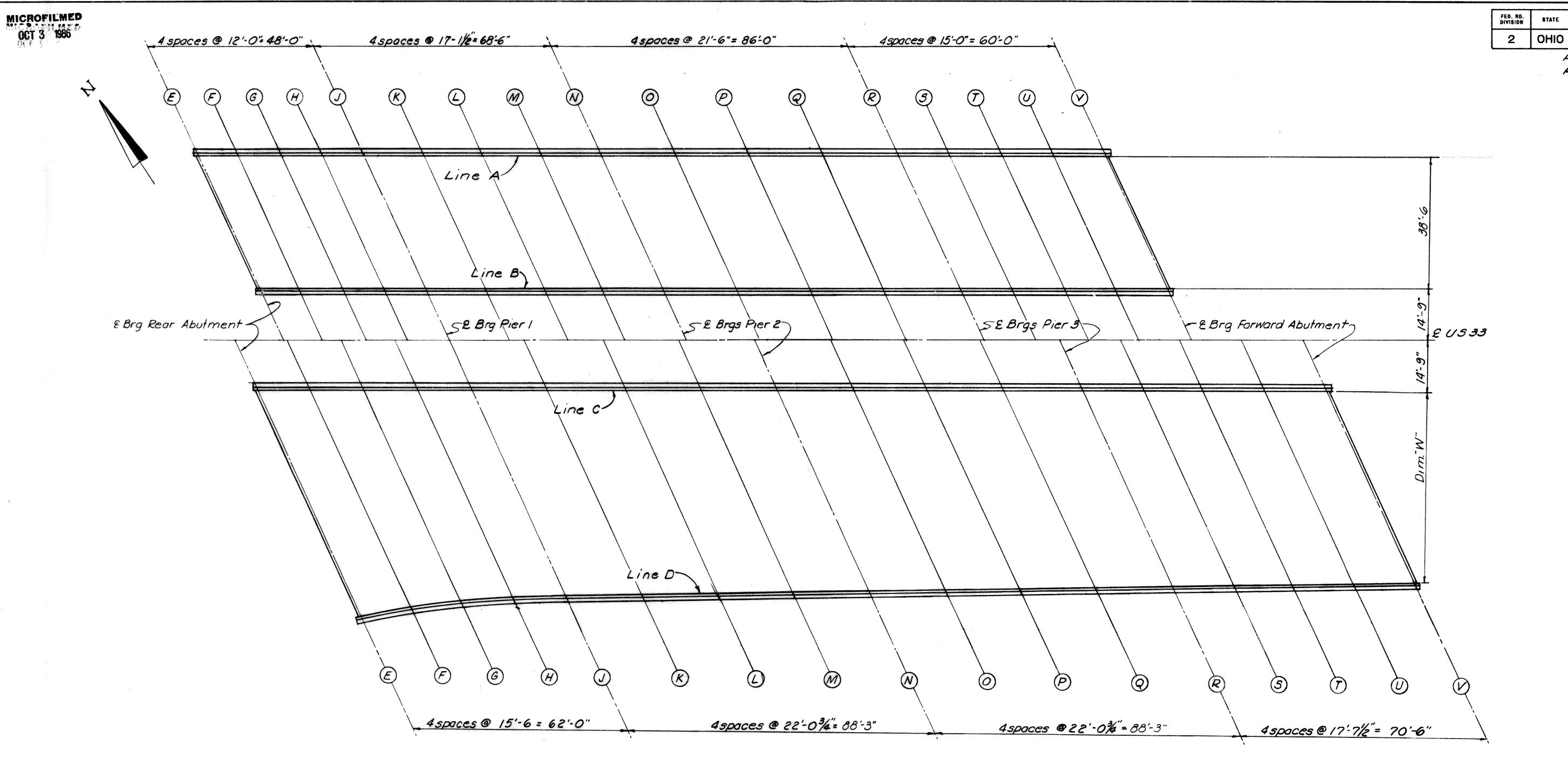
Sta. 699+82.22 N.B. & 699+68.22 SB

ATHENS COUNTY to Sta. 702+49+68 N.B. & 702+82.18 S.B.

| ESIGNED |     | TRACED | CHECKED | REVIEWED | DATE   | REVISED |
|---------|-----|--------|---------|----------|--------|---------|
| JP      | JEK |        | GEA     | 720 1    | /24/69 |         |







The elevations shown at the top of slab and face of curb are those which are required before the concrete deck is placed. Proper allowance has been made for the dead load deflections caused by the weight of concrete.

| E      | F  |   |  |   | TABLE OF SCREED ELEVATIONS   |   |  |   |  |   |  |   |  |   |  |  |  |
|--------|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|--|--|
|        | <del>i and the same of the same of</del> |   | H  | Ú   | K  | 4   | M  | N   | 0  | P   | 0  | R   | .5   | 7   | 11   |  |  |
| 86.18  | 686.67   | 687.15                                      | 687.62   | 688.10  | 688.79   | 689.48  | 690.15   | 690.84  | 691.73   | 692.61  | 6.93.45  | 69428   | 694 88   | 69519   | 69609  | 6066   |  |
| 36.68  | 687.17   | 687.65                                      | 688.13   | 688.60  | 689.30   | 689.99  | 690.66   | 691.34  | 692.23   | 6.93 12   | 693.95   | 694 78  | 695 38   | 6.26.00   | 696.60   | 630.00   |  |
| 86.67  | 687.31   | 687.93                                      | 688.54   | 689.15  | 630.07   | 690.97  | 691.83   | 69268   | 693.59   | 69449   | 69536  | 69621   | 696 02   | 69266   | 636.60   | 631.10   |  |
| 87.18  | 687.97   | 688.73                                      | 689.47   | 690.20  | 691.17   | 692.06  | 69292  | 6927R   | 69169  | 69560   | 60615  | 600.67  | 600.33   | 60000   | 630.36   | 633.00   |  |
| 5'-0/2 | 63'-8%"  | 62'-914"                                    | 62'-15A"   | 61'-8'A"  | 61-1%"   | 60-7%   | 60:02  | FO' 7"  | EP'_111/2  | 50' 13'   | 630.43<br>63' 10'E'  | 501.30  | 630.03   | 630.76  | 633.43   | 100.12   |  |
| 5<br>5 | 6.68<br>36.67<br>37.18   | 6.68 687.17<br>36.67 687.31<br>37.18 687.97 | 6.68 687.17 687.65<br>36.67 687.31 687.93<br>37.18 687.97 688.73 | 6.68 687.17 687.65 688.13<br>36.67 687.31 687.93 688.54<br>37.18 687.97 688.73 689.47 | 6.68 687.17 687.65 688.13 688.60<br>36.67 687.31 687.93 688.54 689.15<br>37.18 687.97 688.73 689.47 690.20 | 6.68 687.17 687.65 688.13 688.60 689.30<br>36.67 687.31 687.93 688.54 689.15 690.07<br>37.18 687.97 688.73 689.47 690.20 691.17 | 6.68 687.17 687.65 688.13 688.60 689.30 689.99<br>36.67 687.31 687.93 688.54 689.15 690.07 690.97<br>37.18 687.97 688.73 689.47 690.20 691.17 692.06 | 6.68 687.17 687.65 688.13 688.60 689.30 689.99 690.66<br>36.67 687.31 687.93 688.54 689.15 690.07 690.97 691.83<br>37.18 687.97 688.73 689.47 690.20 691.17 692.06 692.92 | 6.68 687.17 687.65 688.13 688.60 689.30 689.99 690.66 691.34<br>36.67 687.31 687.93 688.54 689.15 690.07 690.97 691.83 692.68<br>37.18 687.97 688.73 689.47 690.20 691.17 692.06 692.92 693.78 | 6.68 687.17 687.65 688.13 688.60 689.30 689.99 690.66 691.34 692.23<br>36.67 687.31 687.93 688.54 689.15 690.07 690.97 691.83 692.68 693.59<br>37.18 687.97 688.73 689.47 690.20 691.17 692.06 692.92 693.78 694.69 | 6.68 687.17 687.65 688.13 688.60 689.30 689.99 690.66 691.34 692.23 693.12<br>36.67 687.31 687.93 688.54 689.15 690.07 690.97 691.83 692.68 693.59 694.49<br>37.18 687.97 688.73 689.47 690.20 691.17 692.06 692.92 693.78 694.69 695.60 | 6.68 687.17 687.65 688.13 688.60 689.30 689.99 690.66 691.34 692.23 693.12 693.95<br>36.67 687.31 687.93 688.54 689.15 690.07 690.97 691.83 692.68 693.59 694.49 695.36<br>37.18 687.97 688.73 689.47 690.20 691.17 692.06 692.92 693.78 694.69 695.60 696.45 | 6.68 687.17 687.65 688.13 688.60 689.30 689.99 690.66 691.34 692.23 693.12 693.95 694.78 36.67 687.31 687.93 688.54 689.15 690.07 690.97 691.83 692.68 693.59 694.49 695.36 696.21 37.18 687.97 688.73 689.47 690.20 691.17 692.06 692.92 693.78 694.69 695.60 696.45 697.30 | 6.68 687.17 687.65 688.13 688.60 689.30 689.99 690.66 691.34 692.23 693.12 693.95 694.78 695.38 36.67 687.31 687.93 688.54 689.15 690.07 690.97 691.83 692.68 693.59 694.49 695.36 696.21 696.93 37.18 687.97 688.73 689.47 690.20 691.17 692.06 692.92 693.78 694.69 695.60 696.45 697.30 698.03 | 6.68 687.77 687.65 688.73 688.60 689.30 689.99 690.66 691.34 692.23 693.12 693.95 694.78 695.38 696.00 36.67 687.31 687.93 688.54 689.15 690.07 690.97 691.83 692.68 693.59 694.49 695.36 696.21 696.93 697.66 37.18 687.97 688.73 689.47 690.20 691.17 692.06 692.92 693.78 694.69 695.60 696.45 697.30 698.03 698.26 | 86.18 686.67 687.15 687.62 688.10 688.79 689.48 690.15 690.84 691.73 692.61 693.45 694.28 694.88 695.49 696.09<br>66.68 687.17 687.65 688.13 688.60 689.30 689.99 690.66 691.34 692.23 693.12 693.95 694.78 695.38 696.00 696.60<br>66.67 687.31 687.93 688.54 689.15 690.07 690.97 691.83 692.68 693.59 694.49 695.36 696.21 696.93 697.66 698.36<br>67.18 687.97 688.73 689.47 690.20 691.17 692.06 692.92 693.78 694.69 695.60 696.45 697.30 698.03 698.76 699.45<br>67.012 63'-818 62'-914" 62'-118" 61'-818" 61'-118" 60'-718" 60'-012 59'-6" 58'-1112 58'-434" 57'-1076 57'-378" 56'-1076 56'-578" 56'-018 |  |

COLUMBUS ENGINEERING CONSULTANTS, LTD.

Consulting Civil Engineers

Columbus, Ohio

ATKINS MERCER UNDERWOOD, LTD.

18 | 20 |

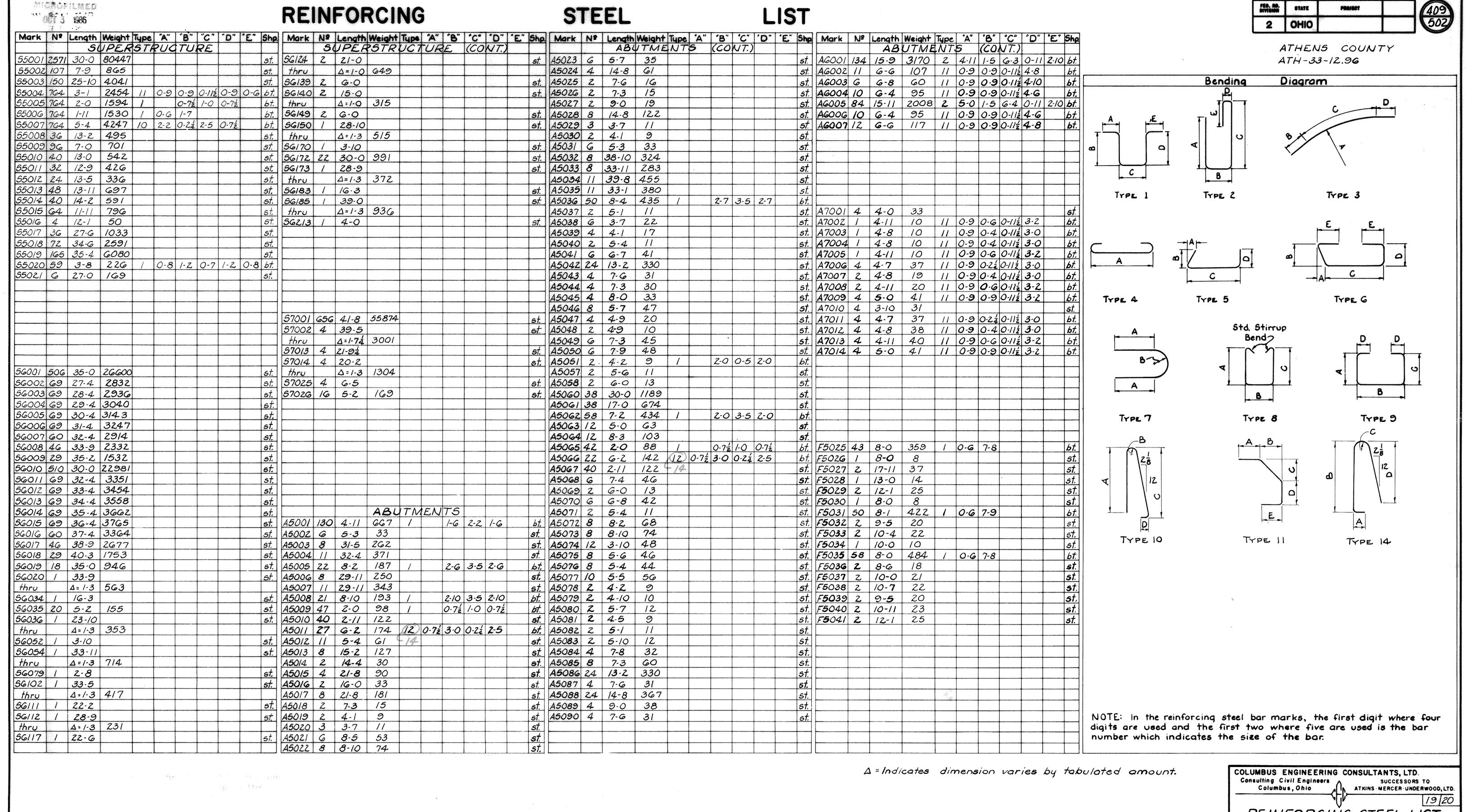
SCREED ELEVATIONS
BRIDGE Nº ATH-33-1325 L. FR.
US 33 OVER US 50A

<u>408</u> 502

ATHENS COUNTY ATH-33-12.96

ATHENS COUNTY Sta. 699+82.22 NB. 699+68.22 S.B. to Sta. 702+49.68 N.B. 699+68.22 S.B. DESIGNED DRAWN TRACED CHECKED REVIEWED DATE REVISED

| JP 8 | \$<br>GE. | A TZU | 1/24/69 |          |
|------|-----------|-------|---------|----------|
|      | <br>      |       |         | <u> </u> |

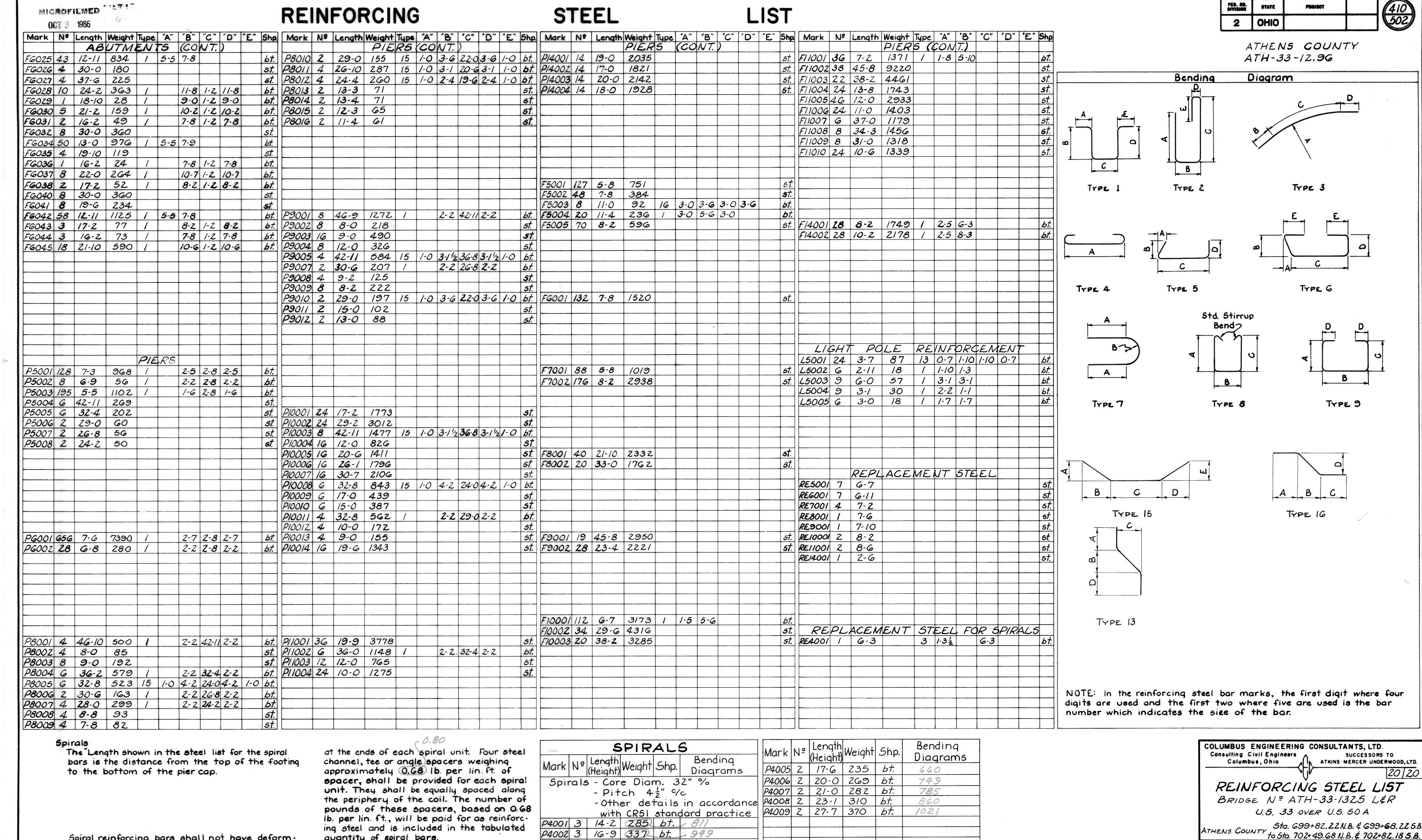


REINFORCING STEEL LIST

BRIDGE Nº ATH.-33-1325 L&R U.S. 33 OVER U.S. 50A

ATHENS COUNTY to Sta. 702+49.68 N.B. \$ 702+82.18 5.B.

| DESIGNED | DRAWN | TRACED | CHECKED | REVIEWED | DATE    | REVIS |
|----------|-------|--------|---------|----------|---------|-------|
| JP       | GTR   |        | GEA     | 720      | 1/24/69 | 8-9-1 |



P4003 3 26-3 529 bt. 1460

P4004 2 16-6 222 bt. 625

quantity of spiral bars.

Spiral reinforcing bars shall not have deform-

to Item 509, 12 closed coils shall be provided

ations but shall in other respects conform

JP GTR

DESIGNED DRAWN TRACED CHECKED REVIEWED DATE REVISED GEA TZU 1/24/69/2