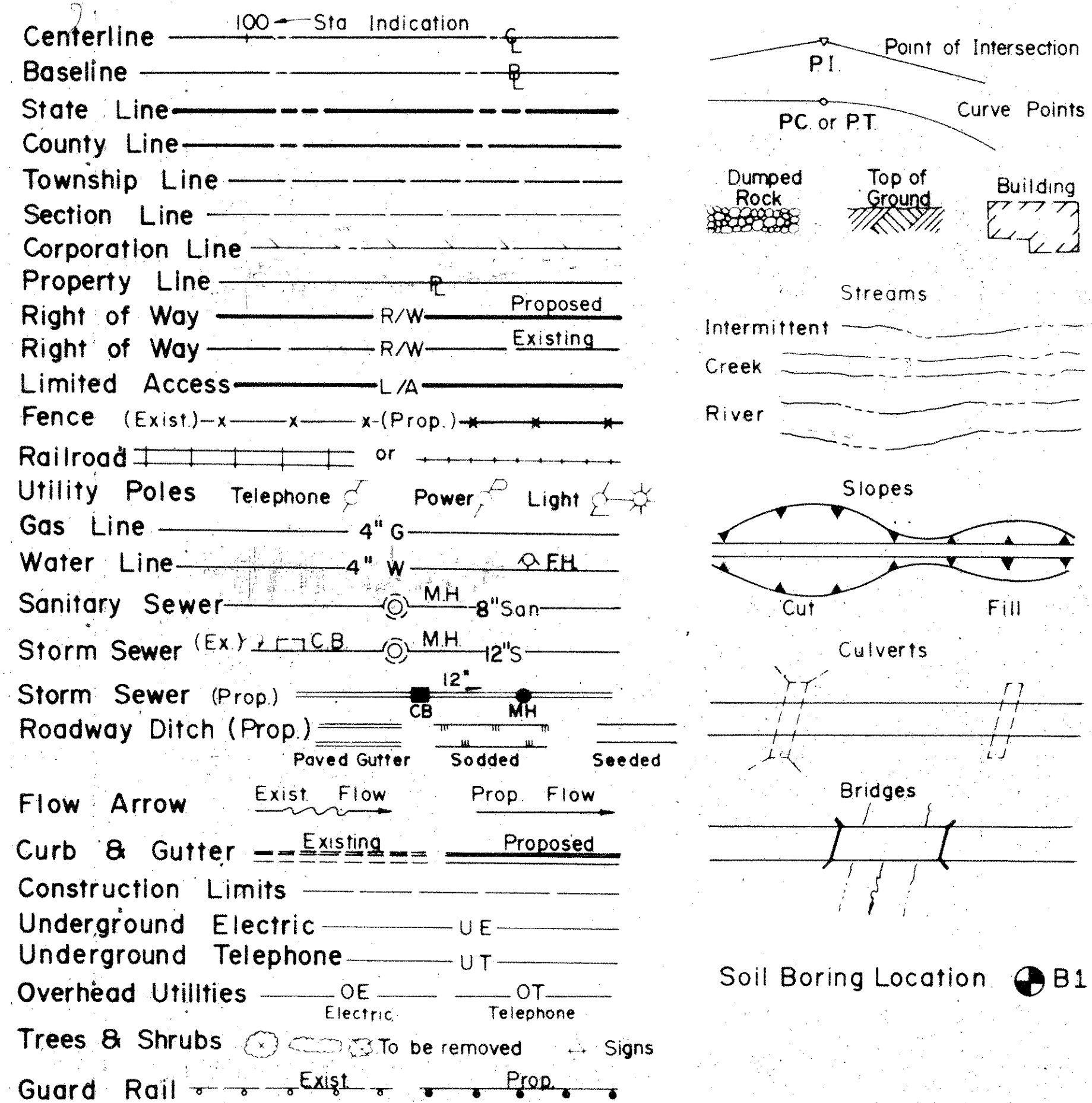


CONVENTIONAL SIGNS AND SYMBOLS



INDEX OF SHEETS

| | | | |
|--------------------------------|-----------|---------------------------------|----------|
| TITLE SHEET | 1 | DRAINAGE DETAILS | 89 |
| SCHEMATIC PLAN | 2 | CULVERT DETAILS | 90-91 |
| TYPICAL SECTIONS | 3-5.5A | PLAN & PROFILE-DOWNSTREAM DITCH | 92 |
| GENERAL NOTES | 6 | CROSS SECTIONS-DOWNSTREAM DITCH | 93 |
| SURVEY REFERENCES | 9 | DRIVEWAY PROFILES | 94-96 |
| MAINTENANCE OF TRAFFIC | 10-17.11A | MISCELLANEOUS DETAILS | 97 |
| GENERAL SUMMARY | 18-20 | TRAFFIC CONTROL | 98-102 |
| PAVEMENT CALCULATIONS | 21-21A | TRAFFIC SIGNAL | 103-105 |
| PLAN & PROFILE-S.R. 725 | 22-27 | LANDSCAPING PLAN | 106-108 |
| CROSS SECTIONS-S.R. 725 | 28-32 | STRUCTURES 20' SPAN & OVER | 109-123 |
| PLAN & PROFILE-BIGGER ROAD | 33-56 | ELECTRICAL PLAN | 123A |
| CROSS SECTIONS-BIGGER ROAD | 57-81 | RIGHT OF WAY | 125-136 |
| PLAN & PROFILE-DETENTION DITCH | 82-83 | WATER WORK | 124-124A |
| CROSS SECTION-DETENTION DITCH | 84-85 | | |
| SUPERELEVATION TABLES | 86 | | |
| INTERSECTION DETAILS | 87-88 | | |

LINE DATA

| | TOTAL | CENTERVILLE | KETTERING | M-IN30 (2) | I-675-8 (22)49 |
|--|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| BEGIN PROJECT | 0+17.50 | 0+17.50 | | 0+17.50 to 26+28 | 26+28 to 47+00 |
| END PROJECT | 52+78 | 52+78 | | 47+00 to 57+78 | |
| ADDITIONS and/or DEDUCTIONS | | | | | |
| LENGTH OF PROJECT | 5260.50 L.F. or 0.996 Mi. | 5260.50 L.F. or 0.996 Mi. | | 3188.50 L.F. or 0.604 Mi. | 2072.00 L.F. or 0.392 Mi. |
| ADD FOR WORK S.R. 725 STA. 95+85 to STA. 108+50 | 1265 Ft. or 0.240 Mi. | 1265 Ft. or 0.240 Mi. | | | |
| ADD FOR WORK on BIGGER ROAD STA. 52+78 to STA. 65+00 | 1222.00 L.F. or 0.231 Mi. | 164.93 L.F. or 0.031 Mi. | 1057.07 L.F. or 0.200 Mi. | | |
| LENGTH OF WORK | 7747.50 Ft. or 1.467 Mi. | 6690.43 Ft. or 1.267 Mi. | 1057.07 L.F. or 0.200 Mi. | | |

**STATE OF OHIO
DEPARTMENT OF TRANSPORTATION**

**MOT-BIGGER ROAD
MOT-675-6.00
CITY OF KETTERING
CITY OF CENTERVILLE
MONTGOMERY COUNTY**

NOTE:
MOT-BIGGER ROAD SHOWN THROUGHOUT THE PLANS SHALL BE CONSIDERED TO READ MOT-BIGGER ROAD MOT-675-6.00

| FHWA REGION | STATE | PROJECT | 1 |
|-------------|-------|----------------------------|-----|
| 5 | OHIO | M-IN30(2) I-675-8(22)49 | 136 |

**MOT - BIGGER ROAD-PART 2
MOT - 675 - 6.00**
FOR PART I SEE MOT-675-3.51; MOT-725-19.74
1983 SPECIFICATIONS

The standard specifications of the State of Ohio, Department of Transportation, including changes and supplemental specifications listed in the proposal, shall govern this improvement.

I hereby approve these plans and declare that the making of this improvement will not require the closing to traffic of the highway except as noted on maintenance of traffic sheet.

Provisions for the maintenance and the safety of traffic will be as set forth on the plans and estimates.

Approved _____
Date 12/28/83
City Manager, City of Centerville

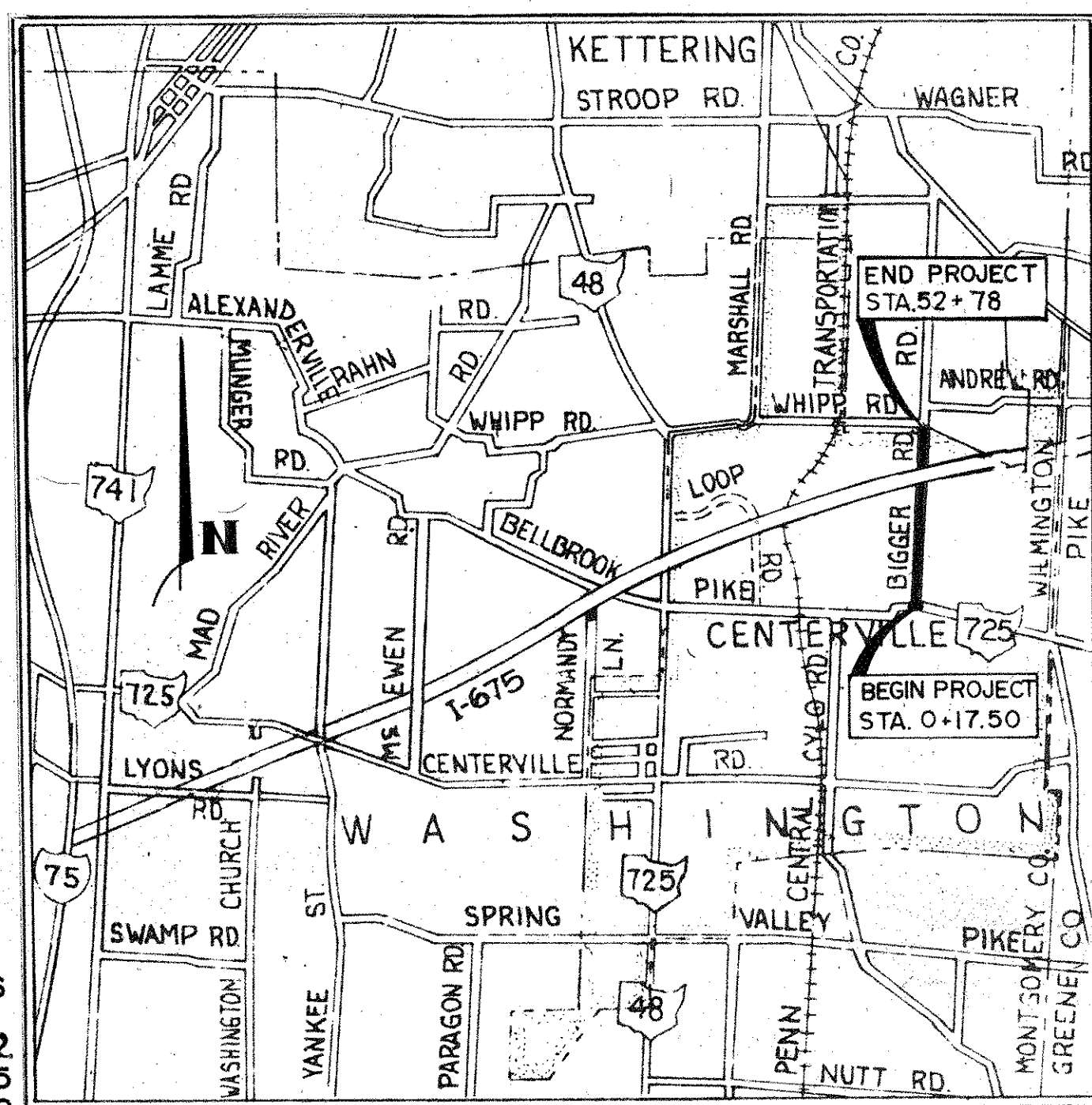
Approved _____
Date 12/27/83
City Manager, City of Kettering

Approved _____
Date 12-30-83
District Deputy Director of Transportation

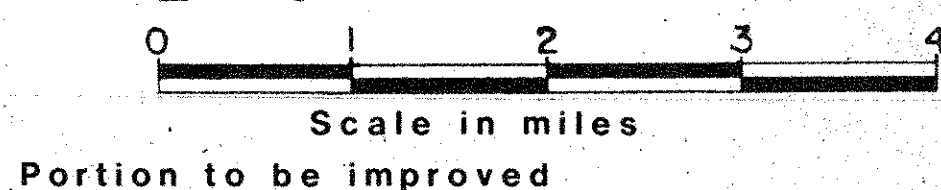
Approved _____
Date 2-22-84
Engineer, Bureau of Bridges and Structural Design

Approved _____
Date 5-14-84
Chief Engineer, Planning and Design

Approved _____
Date 5-14-84
Director, Department of Transportation

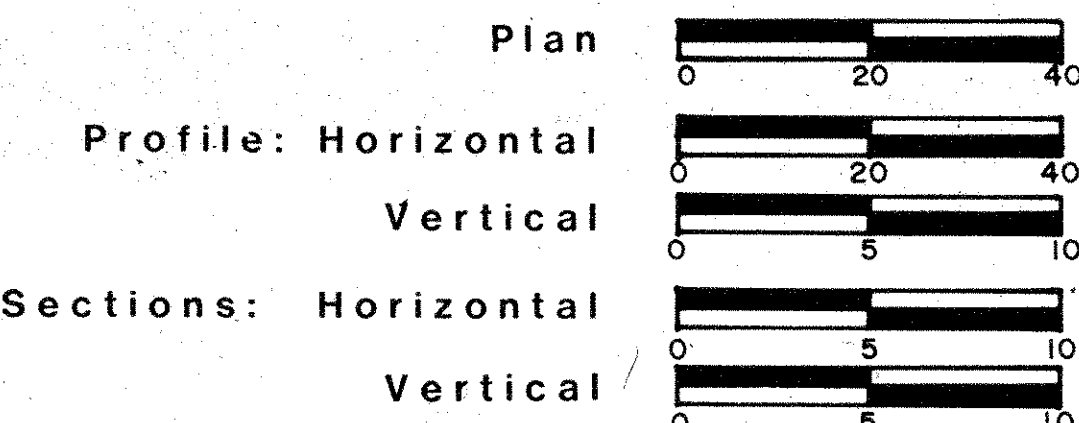


LOCATION MAP



Portion to be improved

SCALES



DESIGN DESIGNATION

Current ADT 1983=13182
Design Year ADT 2003=16637
DHV=9.9%
D=54.8%
T=2.5%
V=40 MPH

STANDARD CONSTRUCTION DRAWINGS - SEE PART 1

| N# | Date | N# | Date | N# | Date | N# | Date | N# | Date |
|---------------|---------|-------|---------|-------|---------|----------|---------|-------------|----------|
| BP-1 | 6-1-65 | GR-1 | 2-5-82 | MC-1 | 6-13-68 | TC-21.20 | 5-31-79 | AG-1-81 | 11-27-81 |
| BP-3 | 12-6-76 | GR-2B | 2-5-82 | | | TC-41.20 | 3-26-79 | TS-EXJ-2-81 | 9-1-81 |
| BP-4 | 7-16-81 | GR-3 | 2-5-82 | MC-4 | 7-28-76 | TC-41.40 | 6-18-79 | SD-69 | 6-12-69 |
| BP-5 | 7-16-81 | GR-4 | 2-5-82 | MC-5 | 6-12-75 | TC-41.41 | 8-2-79 | RB-1-55 | 2-2-59 |
| BP-7 | 12-6-76 | GR-4A | 2-5-82 | MC-6 | 6-1-65 | TC-42.20 | 3-26-79 | FB-1-82 | 5-10-82 |
| BP-12 | 7-7-81 | | | | | TC-52.10 | 4-3-79 | | |
| BP-6 | 6-1-65 | | | MC-11 | 8-1-78 | TC-52.20 | 4-3-79 | | |
| BP-2 | 12-6-76 | | | MC-8 | 6-12-75 | TC-71.10 | 4-9-79 | | |
| CB-2-2-AB | 5-1-79 | | | | | TC-81.10 | 4-10-79 | | |
| CB-3 | 5-1-79 | | | HL-7 | 1-21-76 | | | | |
| CB-3A | 5-1-79 | | | HL-5 | 9-6-73 | TC-83.10 | 4-13-79 | | |
| CB-5 | 5-1-79 | | | HL-3 | 7-27-73 | TC-83.20 | 4-17-79 | | |
| CB-2-3 & 2-45 | -79 | | | HL-4 | 1-21-76 | TC-84.20 | 4-17-79 | | |
| HW-4B | 4-1-80 | MH-5 | 6-12-75 | | | TC-85.20 | 4-18-79 | | |
| HW-4A | 4-1-80 | MH-1 | 6-12-75 | LA-1 | 6-1-79 | | | | |
| | | MH-3 | 6-12-75 | LA-2 | 6-1-79 | | | | |
| | | MH-2 | 6-12-75 | | | | | | |

SUPPLEMENTAL SPECIFICATIONS SEE PART 1

| N# | Date | N# | Date | N# | Date |
|-----|----------|-----|---------|----|------|
| 824 | 10-8-82 | 939 | 6-28-82 | | |
| 836 | 3-12-75 | | | | |
| 803 | 5-27-83 | 861 | 9-9-83 | | |
| 849 | 10-19-81 | 961 | 9-9-83 | | |

File No. _____
Contract No. _____
Date of Letting _____

Plans prepared by
SHAW, WEISS & DE NAPLES
Consulting Engineers
14 W. FIRST ST., DAYTON, OHIO 45402-PH(513)443-0181

**DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION**

Approved _____
Division Administrator _____
Date _____

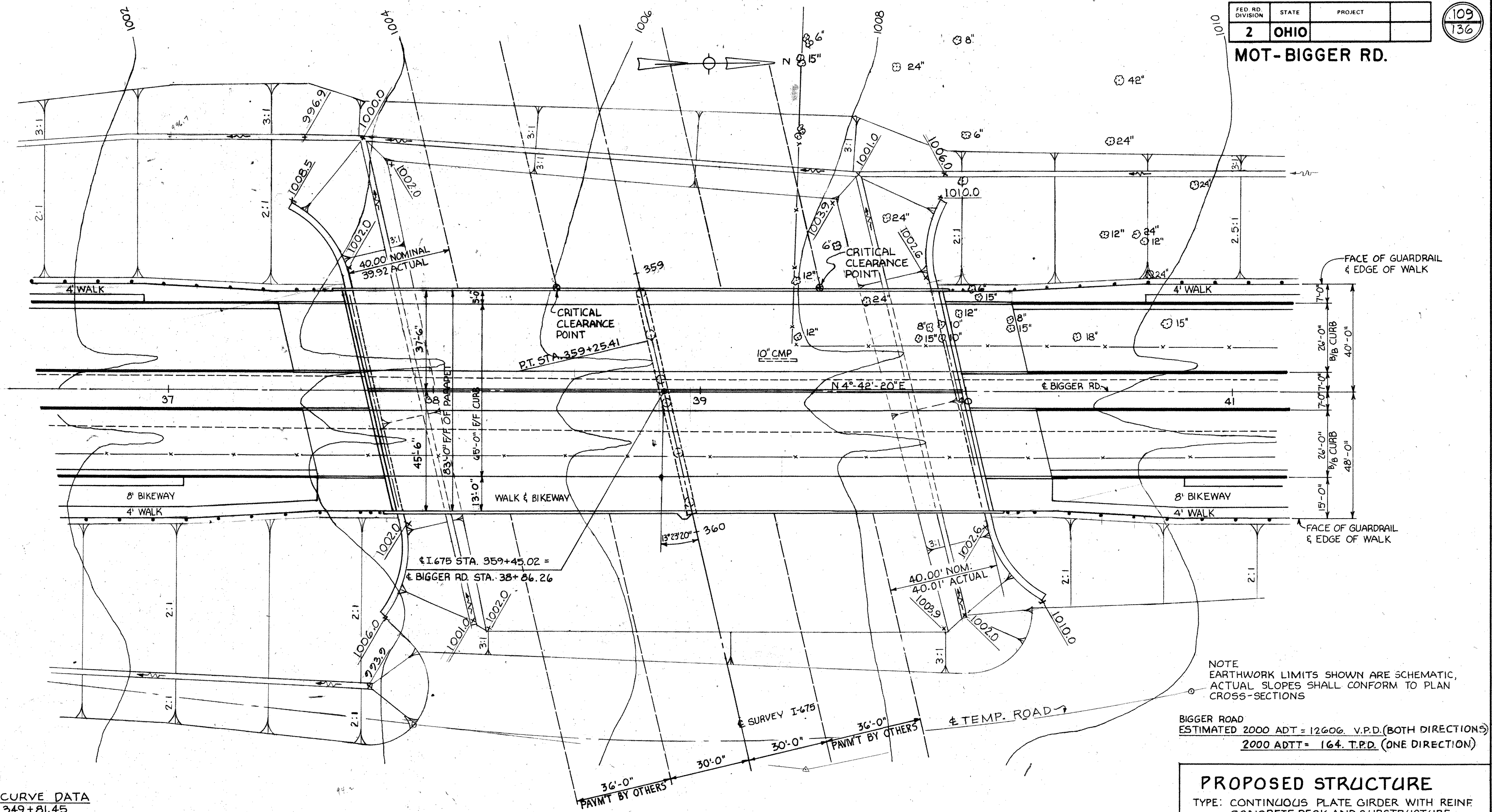
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DEC 27 1980

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| FED. RD. DIVISION | STATE | PROJECT |
| 2 | OHIO | |

109
136

MOT-BIGGER RD.

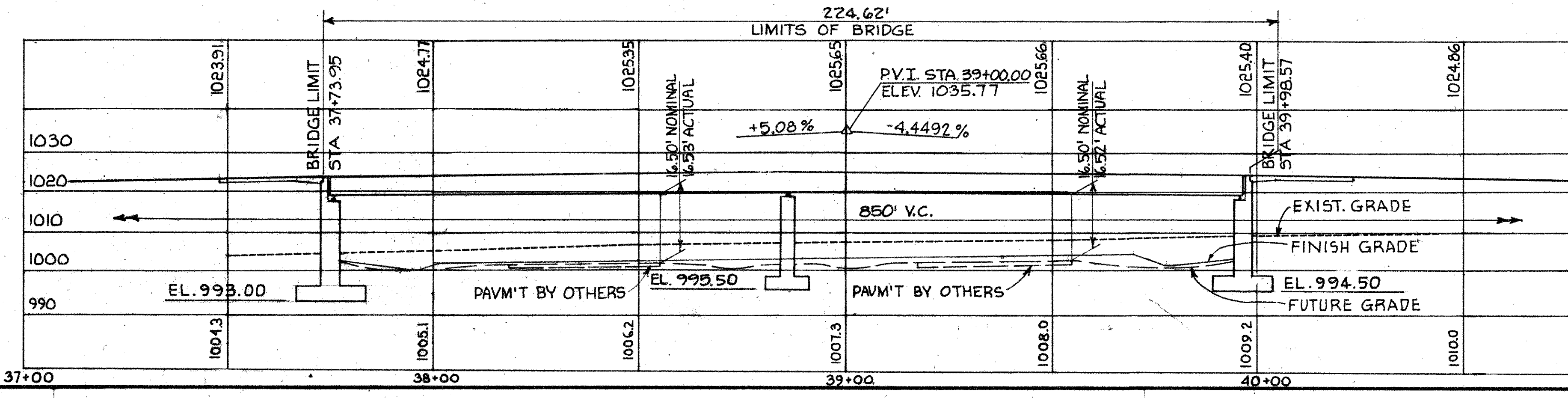
| | | | |
|--------|--------|--------------|--------------|
| 358+50 | 1006.1 | EXIST. GRADE | FINISH GRADE |
| 359+00 | 1006.5 | | |
| 359+50 | 1007.0 | | |
| 360+00 | 1006.8 | | |
| 990 | 1000 | | |
| 1010 | 1020 | | |
| 1030 | 1030 | | |



NOTE
EARTHWORK LIMITS SHOWN ARE SCHEMATIC,
ACTUAL SLOPES SHALL CONFORM TO PLAN
CROSS-SECTIONS

BIGGER ROAD
ESTIMATED 2000 ADT = 12606. V.P.D. (BOTH DIRECTIONS)
2000 ADTT = 164. T.P.D. (ONE DIRECTION)

I-675 CURVE DATA
P.I. STA 349+81.45
 $\Delta = 8^{\circ}49'40''$
 $D_c = 0^{\circ}28'$
 $R = 12,277.67'$
 $T = 947.71'$
 $L = 1891.67'$
 $E = 36.52'$



PROPOSED STRUCTURE
TYPE: CONTINUOUS PLATE GIRDER WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE
SPANS: 110'-110'
ROADWAY: 83'-0" F/F PARAPET
LOADING: HS 20-44 (CASE II) AND ALTERNATE MILITARY LOADING
SKEW: 13°23'20" R.F.
ALIGNMENT: TANGENT
WEARING SURFACE: MONOLITHIC CONCRETE
APPROACH SLAB AS-1-B1 (25' LONG)

A. M. KINNEY, INC.
CINCINNATI, OHIO

SITE PLAN
BRIDGE NO. MOT-675-0600
PROPOSED I-675 UNDER
BIGGER ROAD

SEC MOT-675-372 STA. 359+45.02

| | | | | |
|--------------------|---------------|----------|--------|------------|
| PRESENT TOPOGRAPHY | PROPOSED WORK | | | |
| SURVEYED | DRAWN | DESIGNED | DRAWN | CHECKED |
| L. GRAFF & ASSOC. | J.R.M. | R.P.D. | R.P.D. | J.C.D. |
| | | | | REVIEW |
| | | | | JCO 9-3-82 |

GENERAL NOTES:

REFERENCE SHALL BE MADE TO STANDARD DRAWINGS:
 AS-1-81 DATED 11-27-81 FB-1-82 DATED 5-10-82
 TS-EXJ-281 DATED 9-1-81
 SD-1-69 DATED 6-12-69
 RB-1-55 REVISED 2-2-59
 AND TO SUPPLEMENTAL SPECIFICATIONS:
 836 DATED 3-12-75 824 DATED 10-8-82
 849 DATED 10-19-81

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1977, INCLUDING THE 1978, 1979, 1980, 1981, AND 1982 INTERIM SPECIFICATIONS AND THE OHIO "SUPPLEMENT" TO THESE SPECIFICATIONS.

DESIGN DATA:
 DESIGN LOADING - HS 20-44 CASE II AND THE ALTERNATE MILITARY LOADING
 CONCRETE CLASS S - COMPRESSIVE STRENGTH 4500 PSI FOR SUPERSTRUCTURE
 CLASS C - COMPRESSIVE STRENGTH 4000 PSI FOR SUBSTRUCTURE
 STRUCTURAL STEEL - ASTM A588 - YIELD STRENGTH 50,000 PSI.
 REINFORCING STEEL - ASTM A615, A616 OR A617 GRADE 60, MINIMUM YIELD STRENGTH 60,000 PSI
 SPIRAL REINFORCEMENT MAY BE PLAIN BARS ASTM A82 OR A615

MONOLITHIC WEARING SURFACE THICKNESS IS ASSUMED TO BE 1"

DECK PROTECTION METHOD-EPOXY COATED REINFORCING STEEL, TOP MAT ONLY

ATTACHMENT OF GUARDRAIL TO CONCRETE PARAPETS: CONCRETE INSERT ANCHOR ASSEMBLIES PER STANDARD CONSTRUCTION DRAWINGS GR-3 AND GR-1 SHALL BE PLACED DURING PARAPET CONSTRUCTION.

UTILITY LINES: THE CONTRACTOR AND OWNERS ARE REQUESTED TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WOULD BE HELD TO A MINIMUM.

EMBANKMENT CONSTRUCTION: THE APPROACH EMBANKMENT SHALL BE CONSTRUCTED ON A 1.5 TO 1 SLOPE FROM THE HEEL OF THE ABUTMENT FOOTING TO THE SUBGRADE ELEVATION FOR A MINIMUM DISTANCE OF 200 FEET BACK OF THE FOOTING BEFORE ANY PORTIONS OF THE ABUTMENT ARE CONSTRUCTED. BEFORE THE BACKWALL IS CONSTRUCTED, THE EMBANKMENT SHALL BE PLACED UP TO THE LEVEL OF THE SUBGRADE WITH A 1:1 SLOPE FROM THE BRIDGE SEAT. PAYMENT FOR BACKFILL AND NEW EMBANKMENT, 503, 518, REQUIRED IN EXCESS OF 503, 518 AND 203 QUANTITIES SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 203 EMBANKMENT.

FOUNDATION BEARING PRESSURE: FOOTINGS ARE DESIGNED FOR A MAXIMUM BEARING PRESSURE OF 5.0 TONS PER SQ.FT FOR THE PIERS AND 3.7 TONS PER SQ. FT FOR THE ABUTMENTS.

FOOTINGS SHALL EXTEND A MINIMUM OF 6 INCHES INTO THE LIMESTONE BEDROCK OR TO THE ELEVATION SHOWN, WHICHEVER IS LOWER.

ITEM SPECIAL-FENCE, TYPE CL, AS PER PLAN: INCLUDED IN THIS ITEM IS THE FURNISHING OF ALL MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE FENCING. CHAIN-LINK FENCE SHALL CONFORM TO THE CONSTRUCTION AND MATERIALS SPECIFICATION 710.03. FENCE POSTS AND RAILS SHALL BE OF NOMINAL INSIDE DIAMETER, STANDARD WEIGHT AND WALL THICKNESS PIPE, SCHEDULE 40. SPRING LOADED TOP RAIL EXTENSION SLEEVES SHALL BE PROVIDED AT APPROXIMATELY 100 FOOT INTERVALS IN ALL HORIZONTAL RAILS MORE THAN 4 FEET ABOVE THE POST BASES. STRETCHER BARS AND MISCELLANEOUS HARDWARE SHALL BE THAT OF THE CHAIN-LINK FENCE INDUSTRY STANDARD. BASE PLATES AND MISCELLANEOUS BRACKETS FOR STEEL POSTS MAY BE OF ANY COMMERCIALY WELDABLE STEEL HAVING A YIELD STRENGTH OF NOT LESS THAN 33,000 P.S.I. TENSION BANDS SHALL BE A MINIMUM OF 12 GAUGE STEEL BY 7/8 INCHES WIDE ASSEMBLED WITH 5/16 INCH DIAMETER BY 1/4 INCH GALVANIZED OR CADMIUM PLATED BOLTS. ONE TENSION BAND SHALL BE REQUIRED FOR EACH FOOT OF FABRIC HEIGHT. FIELD WELDING SHALL NOT BE PERMITTED.
 FOR ADDITIONAL NOTES, SEE SHEET 13/15

| I-675-8 (22) 49 | | ESTIMATED QUANTITIES | | | | I- FUNDS | |
|--------------------|---------|----------------------|--|---------|---------|----------|---------|
| ITEM | TOTAL | UNIT | DESCRIPTION | SUPER. | PIERS | ABUTS. | GENERAL |
| 503 | 390 | CU.YD. | ROCK EXCAVATION | | 36 | 354 | |
| 503 | 1037 | CU.YD. | UNCLASSIFIED EXCAVATION | | 203 | 1,734 | |
| 509 | 252,372 | LB. | REINFORCING STEEL, GRADE 60 | 60,833 | 409,699 | 157,570 | |
| 824 | 93,778 | LB. | EPOXY COATED REINFORCING STEEL, GRADE 60 | 93,778 | | | |
| 511 | 774 | CU.YD. | CLASS S CONCRETE, SUPERSTRUCTURE *S.P.N. | 774 | | | |
| 511 | 74 | CU.YD. | CLASS C CONCRETE, PIER CAP & COLUMNS | | 74 | | |
| 511 | 831 | CU.YD. | CLASS C CONCRETE, ABUTS. ABOVE FOOTINGS | | | 831 | |
| 511 | 854 | CU.YD. | CLASS C CONCRETE, FOOTINGS | | 71 | 783 | |
| 512 | 53 | SQ.YD. | TYPE B WATERPROOFING | | | 53 | |
| 513 | 3,894 | EACH | WELDED STUD SHEAR CONNECTORS, S.P.N. | 3,894 | | | |
| 513 | 613,000 | LB. | STRUCTURAL STEEL (AISC CATEGORY III) A588, S.P.N. | 613,000 | | | |
| 516 | 435 | SQ. FT. | 1" PREFORMED EXPANSION JOINT FILLER | | | 435 | |
| 518 | 455 | CU.YD. | POROUS BACKFILL | | | 455 | |
| 518 | 116 | LIN. FT. | 6" NON-PERFORATED HELICAL CORRUGATED STEEL PIPE INCLUDING SPECIALS, 707.01 | | | 116 | |
| 518 | 314 | LIN. FT. | 6" PERFORATED, HELICAL CORRUGATED STEEL PIPE 707.01 | | | 314 | |
| 518 | 6 | EACH | SCUPPERS, INCLUDING SUPPORTS | 6 | | | |
| 518 | 162 | LIN. FT. | 4" STD. PIPE DRAIN, HOT-DIP GALVANIZED STEEL | | | 162 | |
| 601 | 6 | SQ. YD. | CRUSHED AGGREGATE SLOPE PROTECTION | | | | 6 |
| 516 | 175 | LIN. FT. | ELASTOMERIC COMPRESSION SEALS FOR STRUCTURAL STEEL JOINTS, 5" WIDTH | 175 | | | |
| SPECIAL | 5,227 | SQ. FT. | PROTECTION OF CONCRETE SURFACES | | 2,260 | 2,967 | |
| SPECIAL | 441.25 | LIN. FT. | FENCE, TYPE CL, AS PER PLAN | 441.25 | | | |

* USING SHRINKAGE COMPENSATING CEMENT, 701.08
 S.P.N.: SEE PROPOSAL NOTE

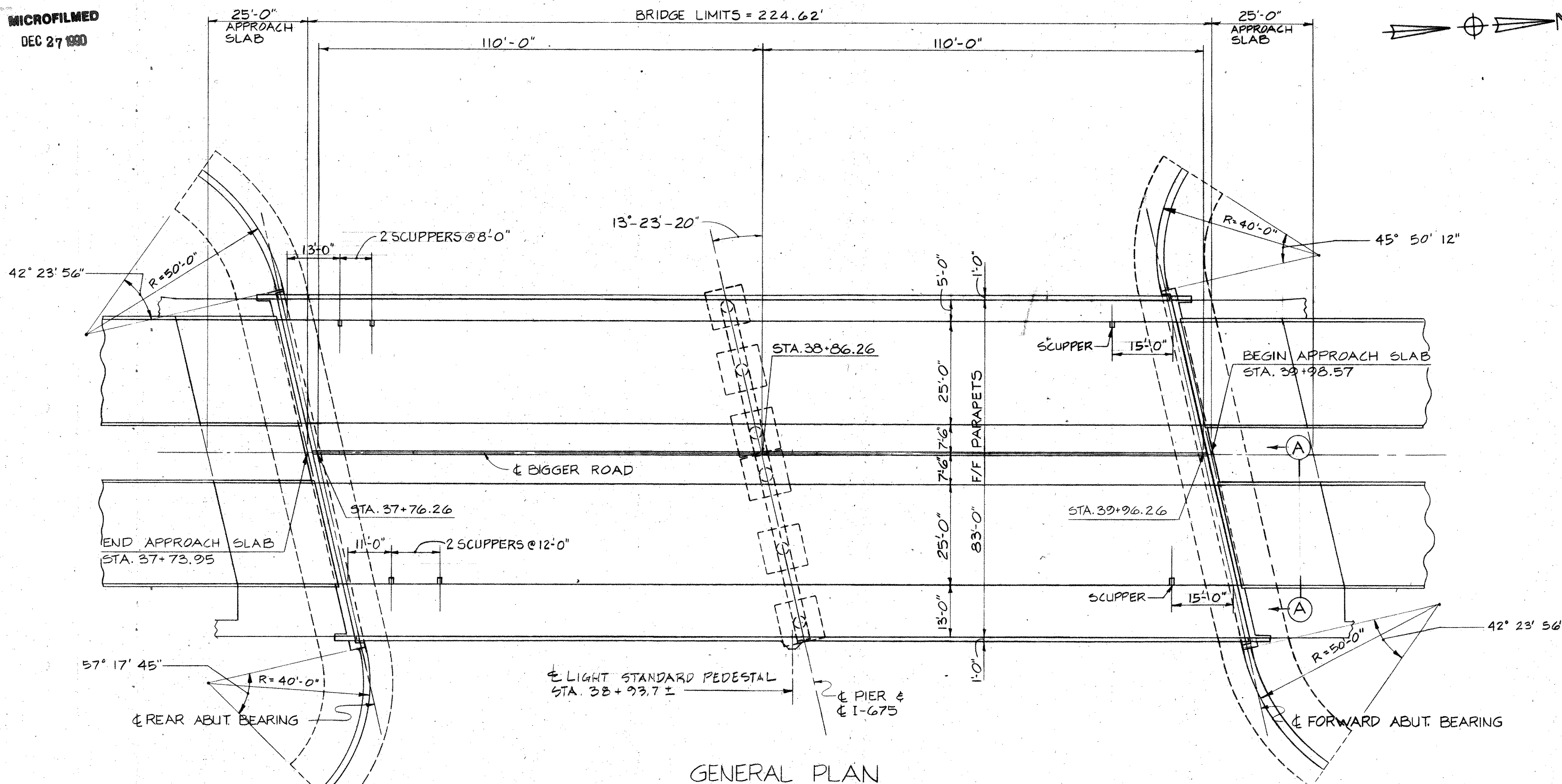
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|---|--------|--------|---------|----------------|--------|---------|
| A. M. KINNEY, INC. CINCINNATI, OHIO | | | | | | |
| GENERAL NOTES & ESTIMATED QUANTITIES | | | | | | |
| BRIDGE NO. MOT-675-0600 | | | | | | |
| PROPOSED I-675 UNDER BIGGER ROAD | | | | | | |
| MONTGOMERY CO. | | | | STA. 359+45.02 | | |
| DESIGNED | DRAWN | TRACED | CHECKED | REVIEWED | DATE | REVISED |
| T.M.B. | J.E.B. | JEB | JIK | JCO | 9-3-82 | |

MICROFILMED
DEC 27 1980

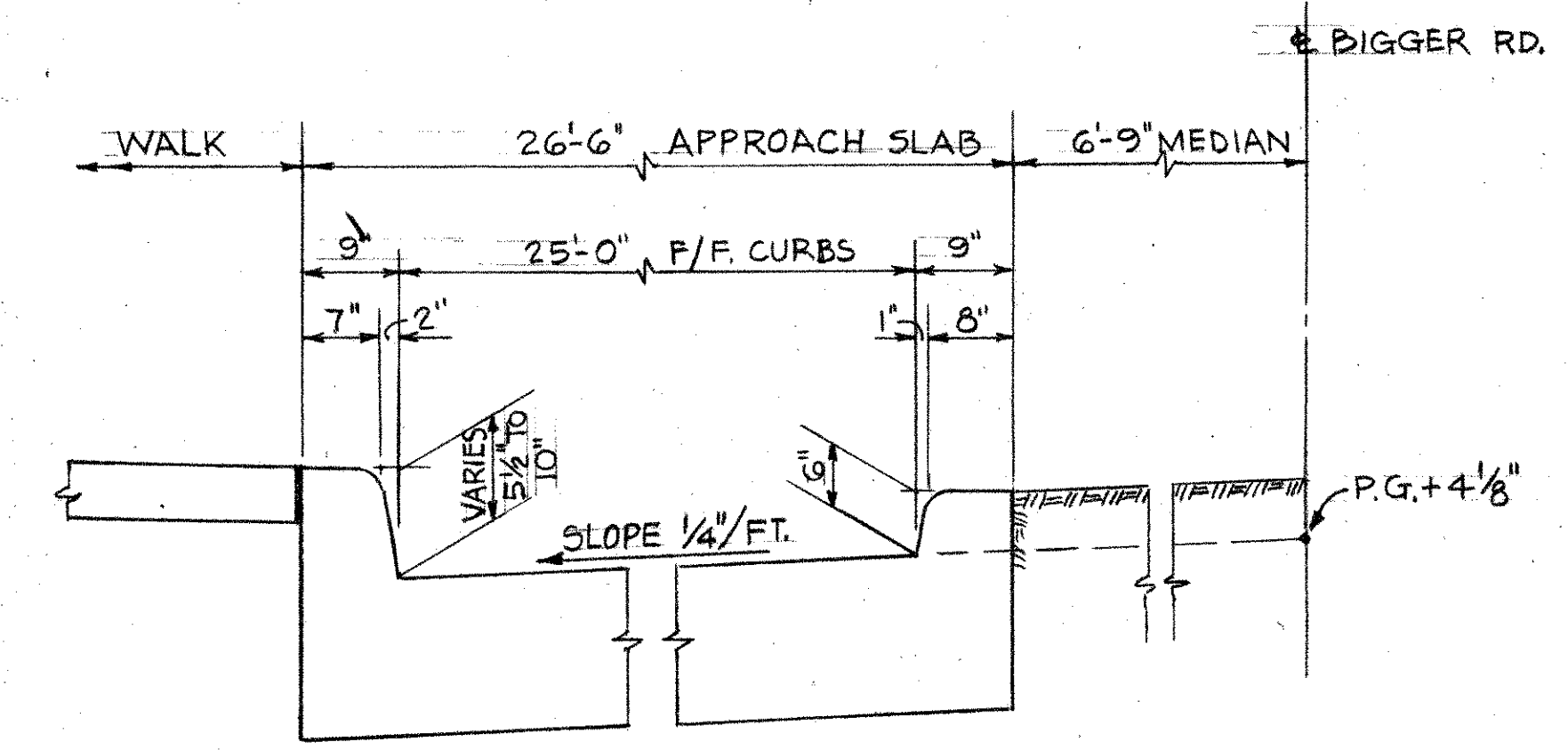
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| 2 | OHIO | |

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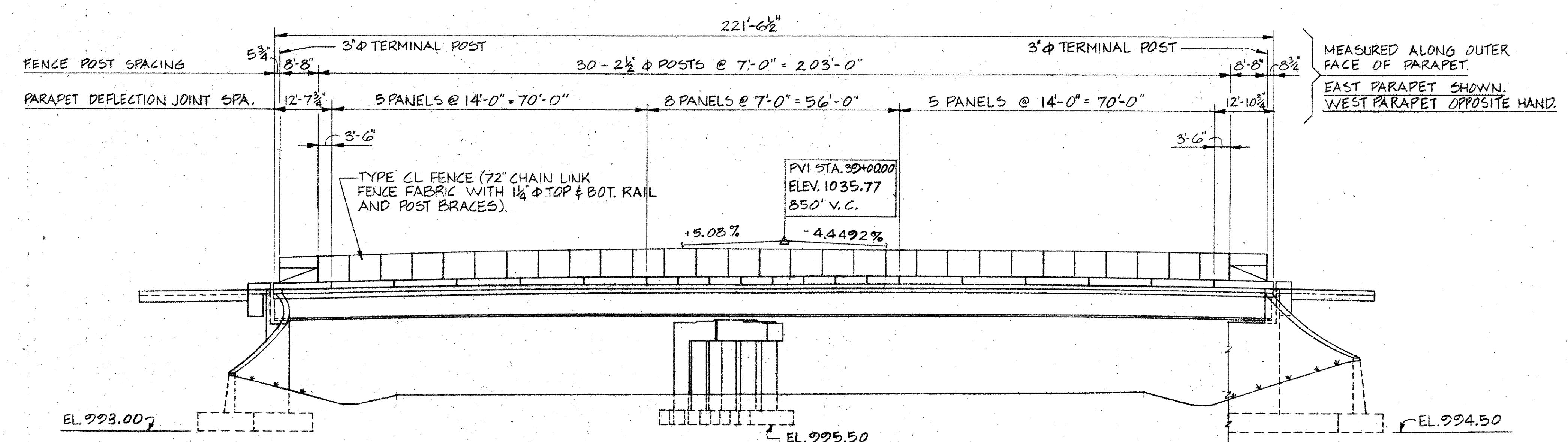
MOT-BIGGER RD.



GENERAL PLAN



SECTION A-A
NOTE: INCLUDE MONOLITHIC CURBS WITH APPROACH SLABS FOR PAYMENT.



ELEVATION

A. M. KINNEY, INC.
CINCINNATI, OHIO

3/15

GENERAL PLAN
BRIDGE NO. MOT-675-0600
PROPOSED I-675 UNDER
BIGGER ROAD

MONTGOMERY CO. STA. 359+45.02

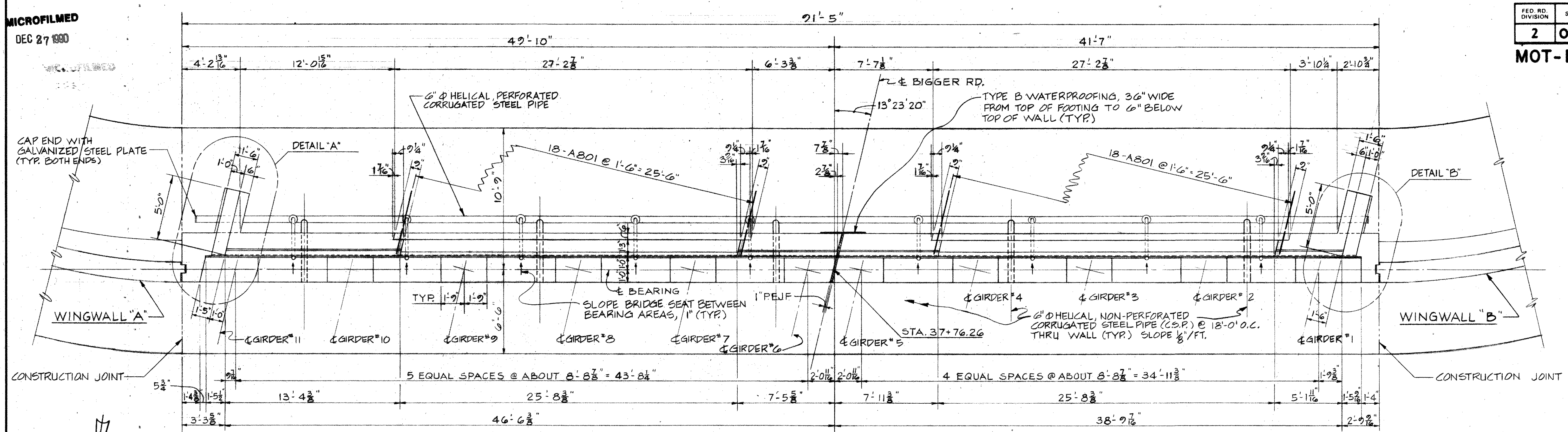
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|----------|--------|--------|---------|----------|--------|---------|
| DESIGNED | DRAWN | TRACED | CHECKED | REVIEWED | DATE | REVISED |
| J.E.B. | J.E.B. | J.E.B. | J.I.K. | J.C.O. | 9-3-82 | |

MICROFILMED
DEC 27 1990

| | | |
|-------------------|-------|---------|
| FED. RD. DIVISION | STATE | PROJECT |
| 2 | OHIO | |

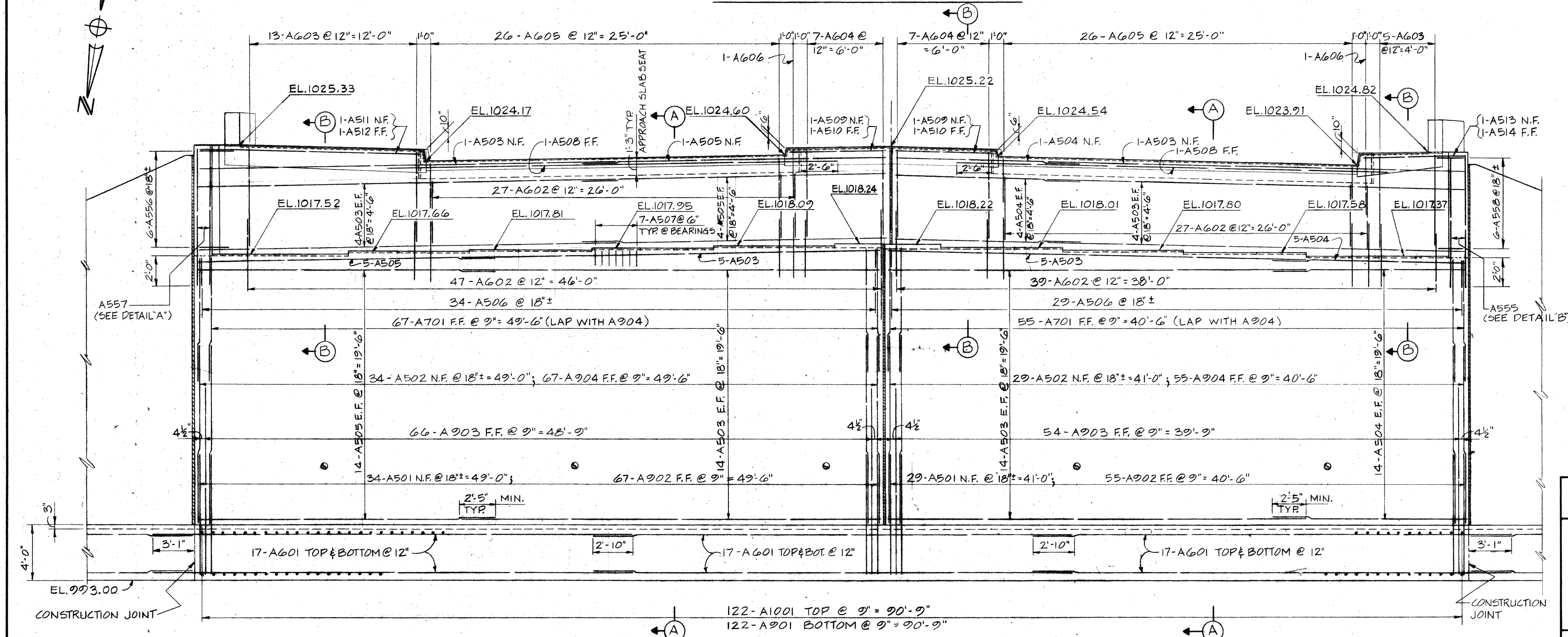
112
136

MOT-BIGGER RD.



LEGEND
 N.F. = NEAR FACE
 F.F. = FAR FACE
 E.F. = EACH FACE
 P.E.J.F. = PREFORMED EXPANSION JOINT FILLER

PLAN-REAR ABUTMENT



ELEVATION

NOTES

POROUS BACKFILL, 2 FT. THICK SHALL EXTEND UP TO THE PLANE OF THE SUBGRADE AND Laterally TO THE ENDS OF THE WINGWALLS.

BACKWALL CONCRETE: IN ADDITION TO THE PROVISIONS OF 511.08, BACKWALL CONCRETE ABOVE THE BRIDGE SEAT OR BACKWALL CONCRETE ABOVE THE OPTIONAL CONSTRUCTION JOINT AT THE APPROACH SLAB SEAT SHALL NOT BE PLACED UNTIL AFTER THE DECK CONCRETE IN THE SPAN ADJACENT TO THE ABUTMENT HAS BEEN PLACED.

VERTICAL RUSTICATION GROOVES SHALL BE PLACED 4'-0" C/C IN FRONT FACE OF ABUTMENT WALL AND WINGWALLS. SEE SHEET 8/15 FOR DETAIL OF RUSTICATION GROOVE.

FOR DETAILS OF WINGWALLS "A" & "B", SEE SHEET 5/15.

FOR SECTIONS A-A & B-B AND DETAILS "A" & "B", SEE SHEET 8/15.

A. M. KINNEY, INC.
CINCINNATI, OHIO

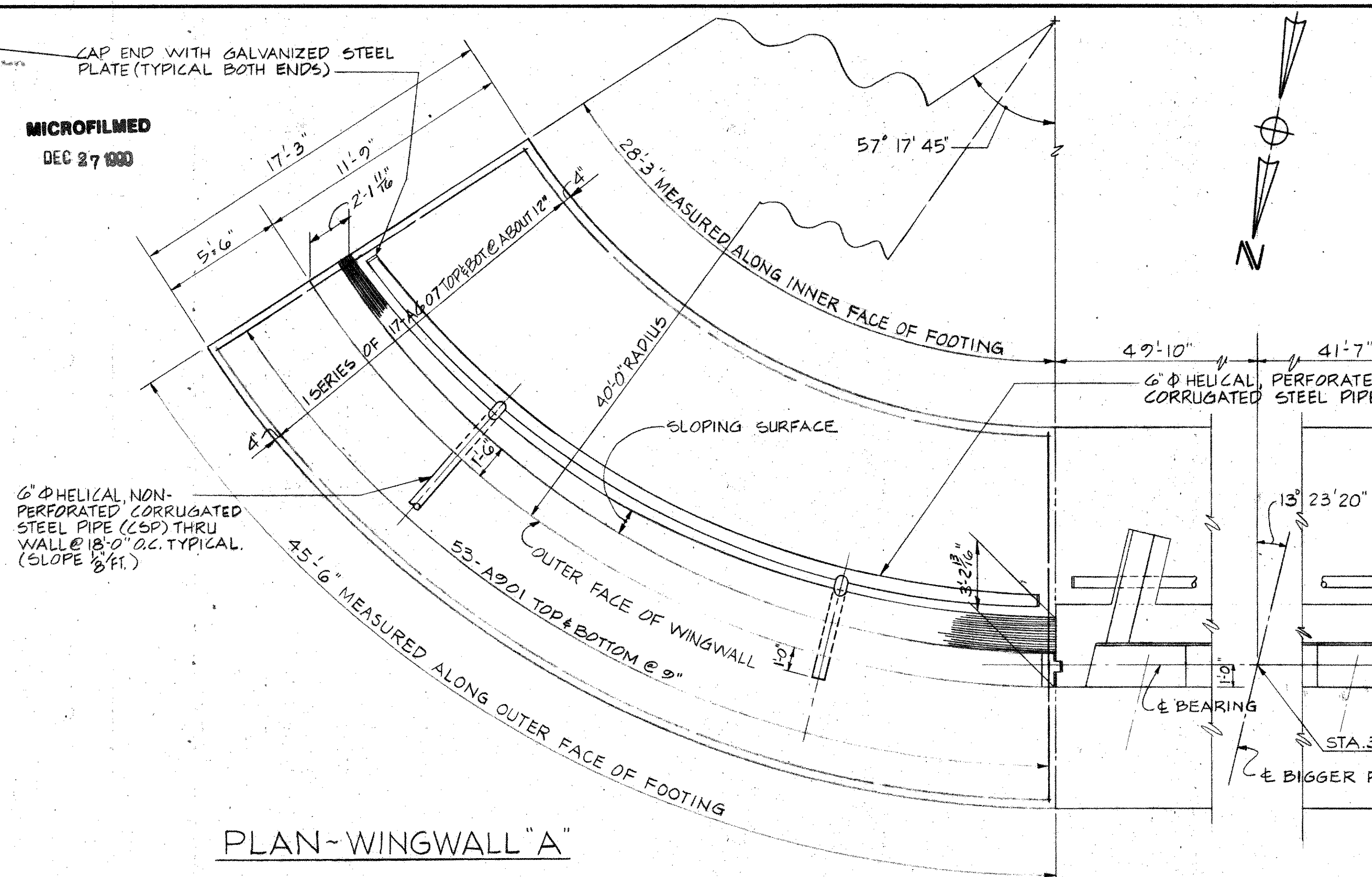
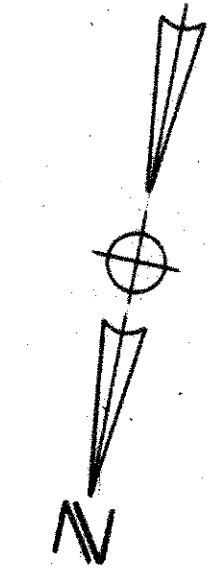
4/15

REAR ABUTMENT DETAILS
 BRIDGE NO. MOT-675-0600
 PROPOSED I-675 UNDER
 BIGGER ROAD
 MONTGOMERY CO. STA. 359+45.02

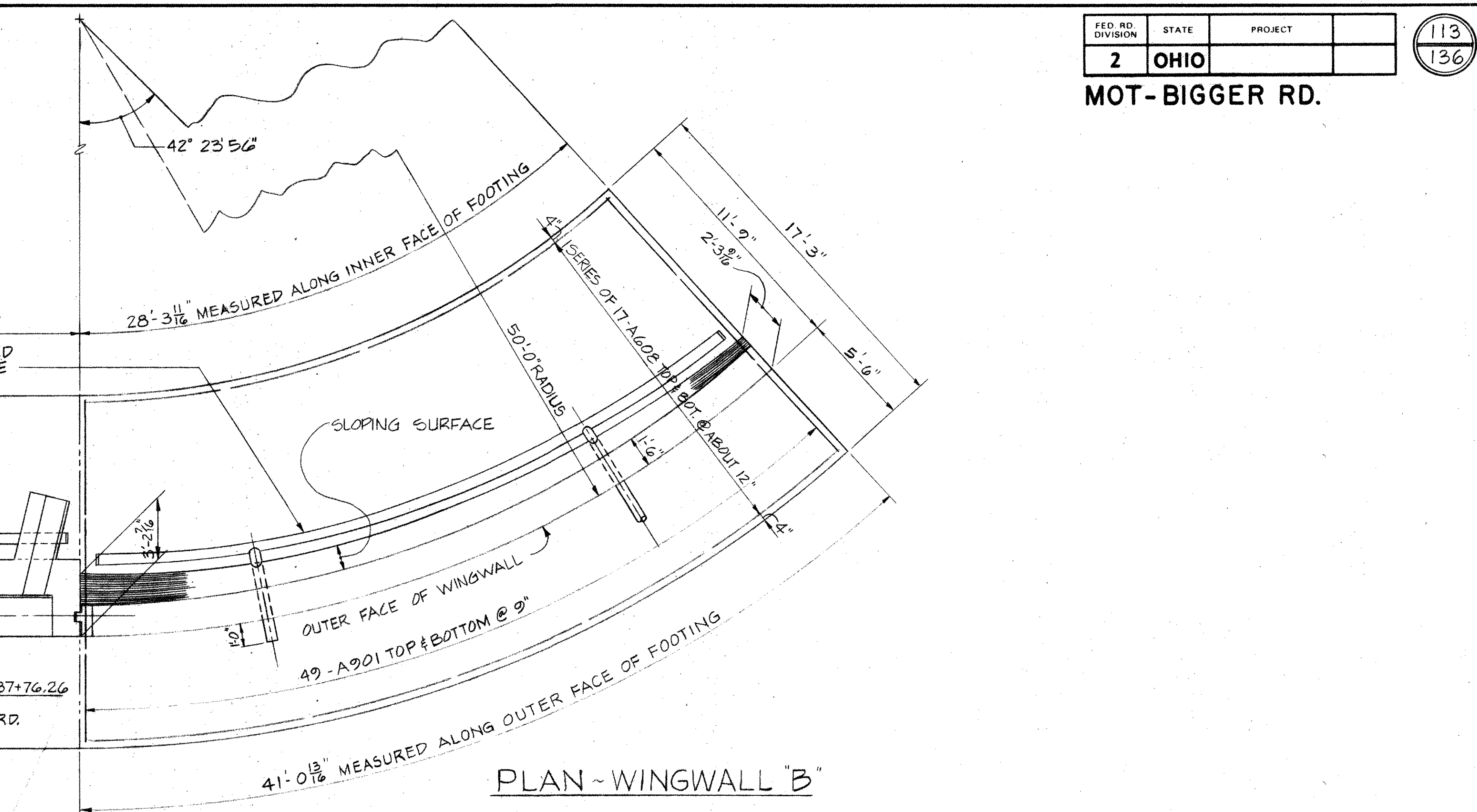
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|----------|--------|--------|---------|----------|--------|---------|
| DESIGNED | DRAWN | TRACED | CHECKED | REVIEWED | DATE | REVISED |
| G.R.B. | J.E.B. | J.E.B. | J.I.K. | J.C.O. | 9-3-82 | |

MOT-BIGGER RD.

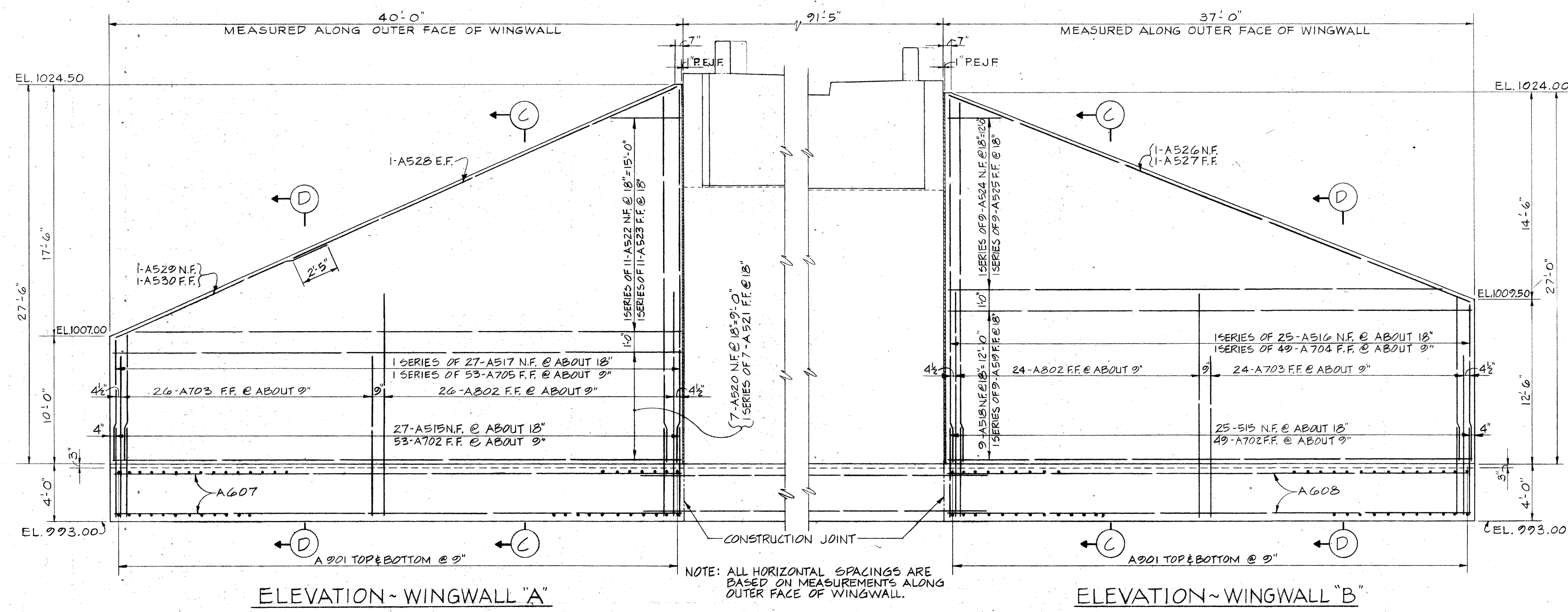
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DEC 27 1990



PLAN-WINGWALL "A"



PLAN-WINGWALL "B"



ELEVATION-WINGWALL "A"

ELEVATION-WINGWALL "B"

NOTE: ALL HORIZONTAL SPACINGS ARE BASED ON MEASUREMENTS ALONG OUTER FACE OF WINGWALL.

NOTES
FOR SECTIONS C-C & D-D AND RUSTICATION GROOVE DETAILS, SEE SHT. 3/15.
FOR ADDITIONAL NOTES, SEE SHT. 4/15.

LEGEND
N.F. = NEAR FACE
F.F. = FAR FACE
E.F. = EACH FACE
P.E.J.F. = PREFORMED EXPANSION JOINT FILLER

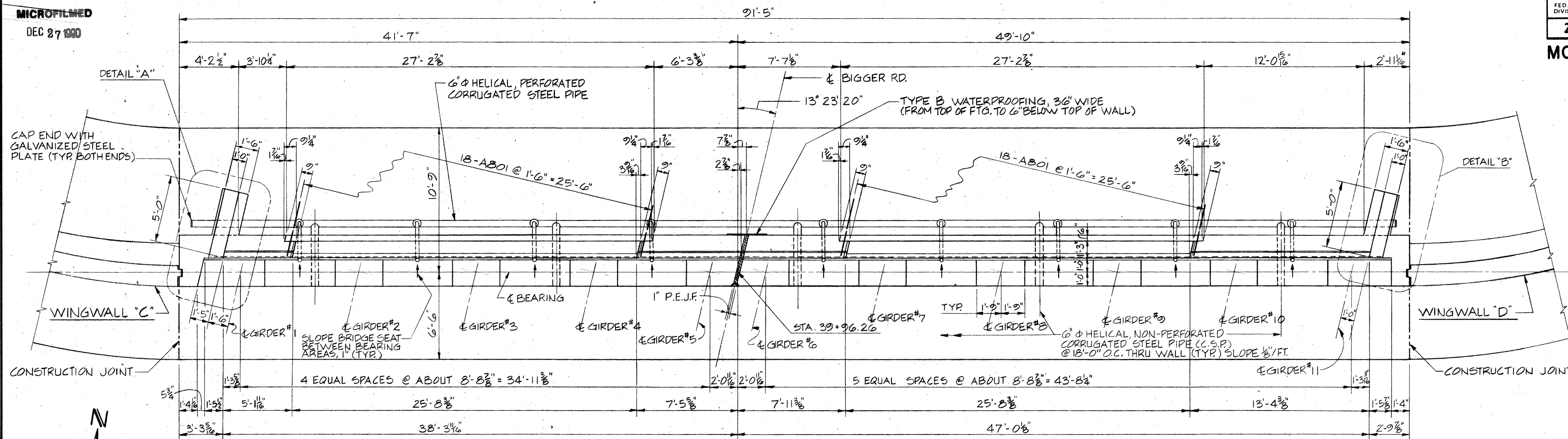
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|--|----------|----------------|
| A. M. KINNEY, INC. CINCINNATI, OHIO | | 5/15 |
| REAR ABUTMENT DETAILS | | |
| BRIDGE NO. MOT-675-0600 PROPOSED I-675 UNDER BIGGER ROAD | | |
| MONTGOMERY CO. | | STA. 359+45.02 |
| DESIGNED | DRAWN | TRACED |
| CHECKED | REVIEWED | DATE |
| REVISED | | |
| S.R.B. | J.E.B. | J.I.K. |
| J.C.O. | 9-3-82 | |

MICROFILMED
DEC 27 1980

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| FED. RD. DIVISION | STATE | PROJECT |
| 2 | OHIO | |

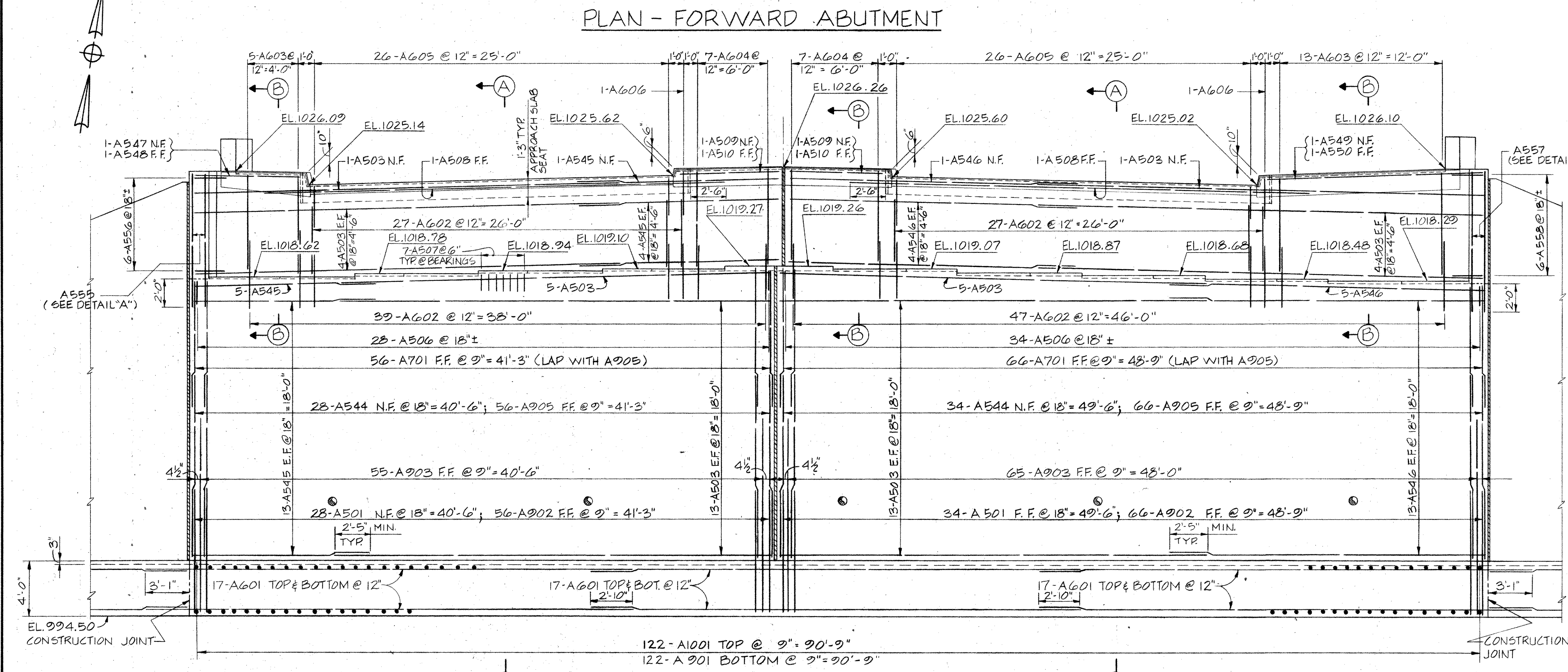
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MOT-BIGGER RD.



LEGEND
 N.F. = NEAR FACE
 F.F. = FAR FACE
 E.F. = EACH FACE
 P.E.J.F. = PREFORMED EXPANSION JOINT FILLER

NOTES
 FOR DETAILS OF WINGWALLS "C" & "D", SEE SHEET 7/15.
 FOR SECTIONS A-A & B-B, AND DETAILS "A" & "B", SEE SHEET 8/15.
 FOR ADDITIONAL NOTES, SEE SHEET 4/15.



| | | | | | | |
|---|--------|--------|---------|----------------|--------|---------|
| A. M. KINNEY, INC. CINCINNATI, OHIO | | | | | | 6/15 |
| FORWARD ABUTMENT DETAILS | | | | | | |
| BRIDGE NO MOT-675-0600 PROPOSED I-675 UNDER BIGGER ROAD | | | | | | |
| MONTGOMERY CO. | | | | STA. 359+45.02 | | |
| DESIGNED | DRAWN | TRACED | CHECKED | REVIEWED | DATE | REVISED |
| S.R.B. | J.E.B. | J.E.B. | J.I.K. | J.C.O. | 9-3-82 | |

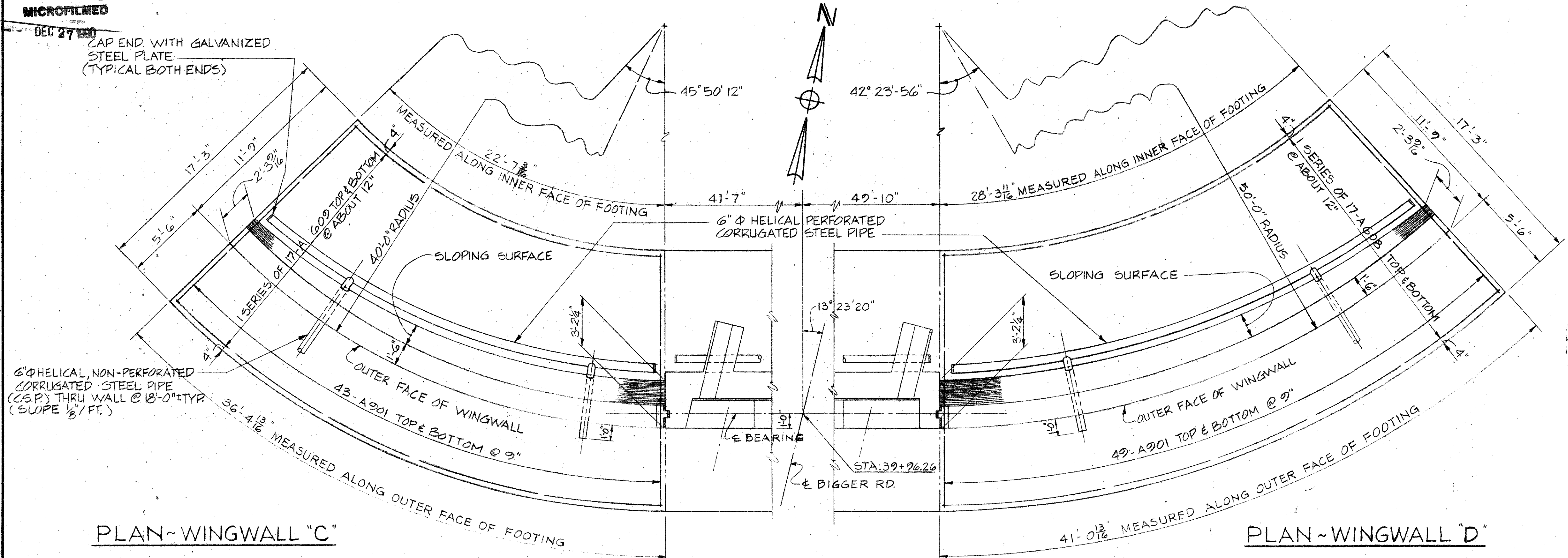
MICROFILMED

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| FED. RD. DIVISION | STATE | PROJECT |
| 2 | OHIO | |

115
136

MOT-BIGGER RD.



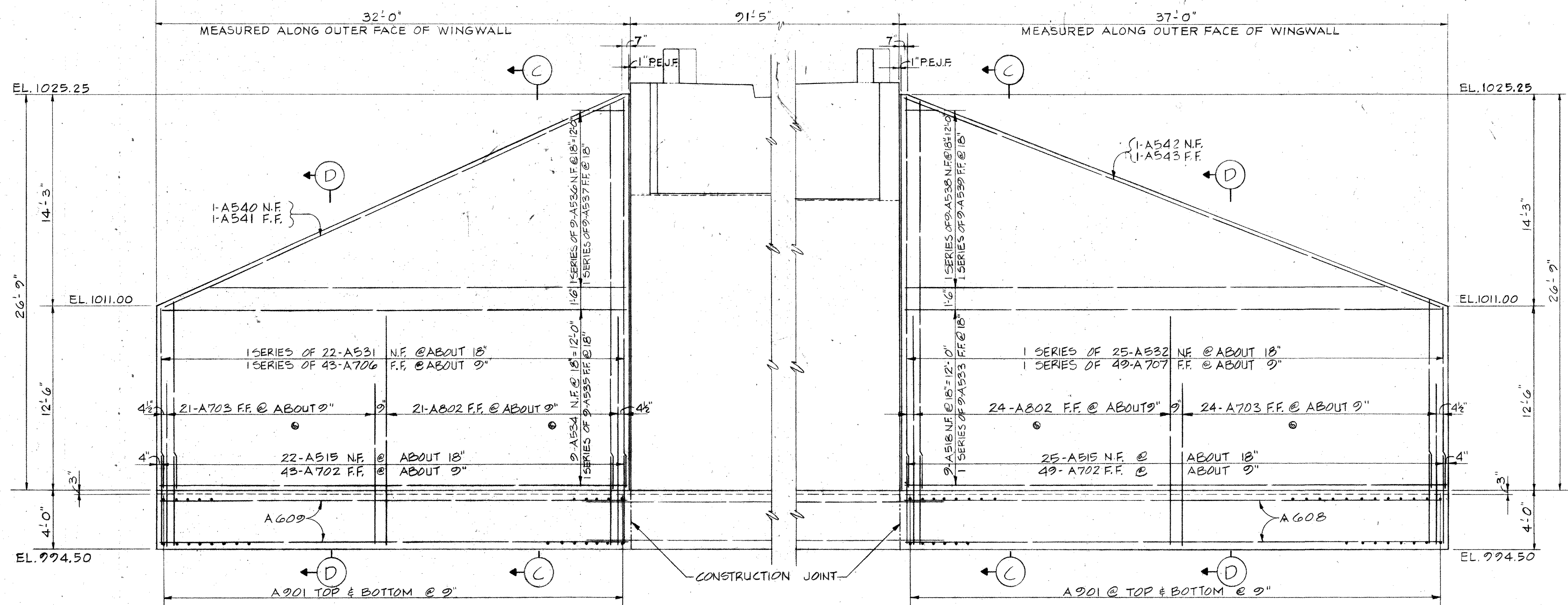
PLAN-WINGWALL "C"

PLAN-WINGWALL "D"

NOTES

FOR SECTIONS C-C & D-D AND RUSTICATION GROOVE DETAILS, SEE SH. 8/15.

FOR ADDITIONAL NOTES, SEE SH. 4/15.



ELEVATION-WINGWALL "C"

ELEVATION-WINGWALL "D"

LEGEND

- N.F. = NEAR FACE
- F.F. = FAR FACE
- E.F. = EACH FACE
- PEJ.F. = PREFORMED EXPANSION JOINT FILLER

A. M. KINNEY, INC.
CINCINNATI, OHIO

7/15

**FORWARD ABUTMENT
DETAILS**
BRIDGE NO. MOT-675-0600
PROPOSED I-675 UNDER
BIGGER ROAD

MONTGOMERY CO. STA. 359+45.02

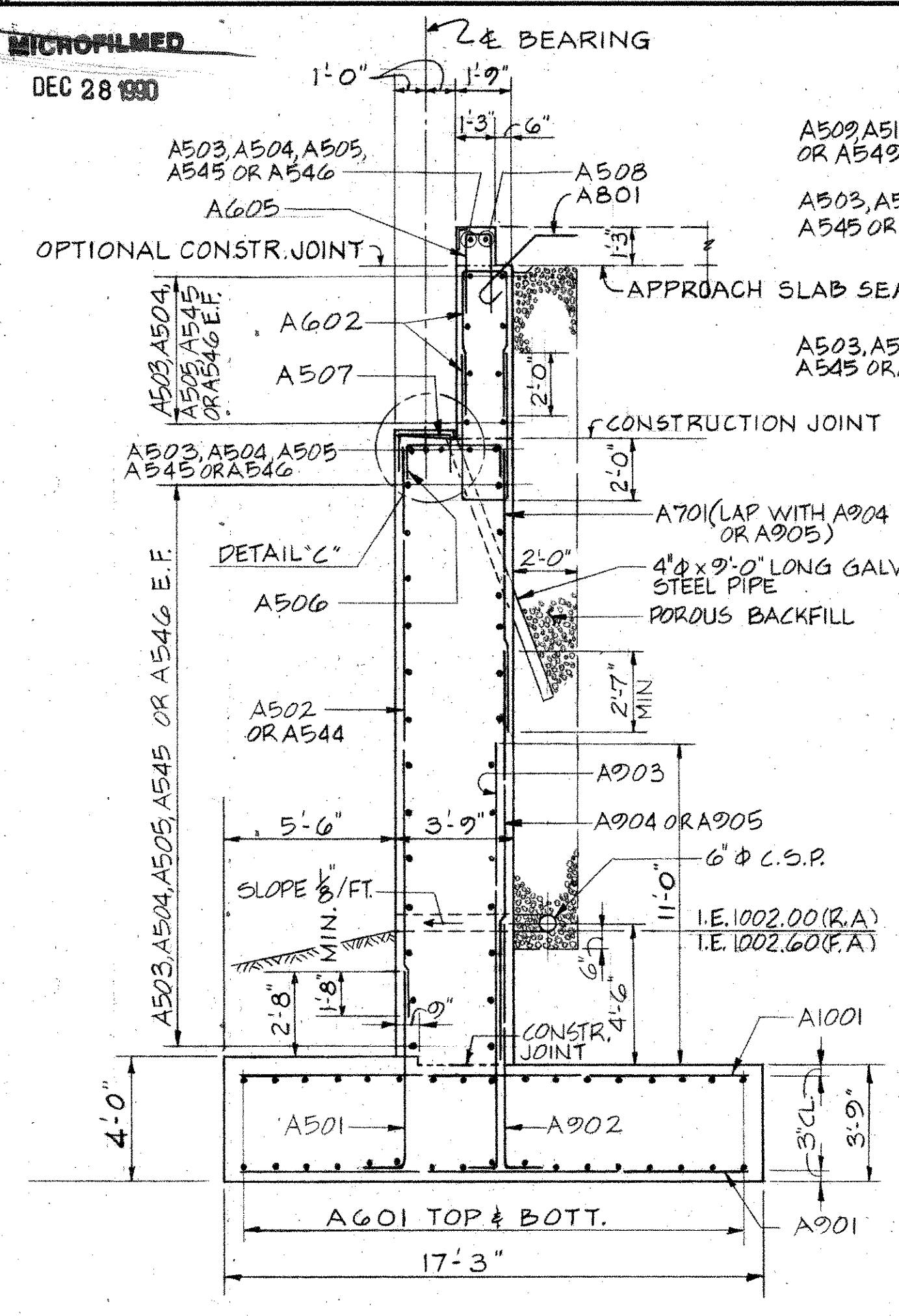
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| DESIGNED | DRAWN | TRACED | CHECKED | REVIEWED | DATE | REVISED |
| S.R.B. | J.E.B. | J.E.B. | J.I.K. | J.C.O. | 9-3-82 | |

MICROFILMED
DEC 28 1990

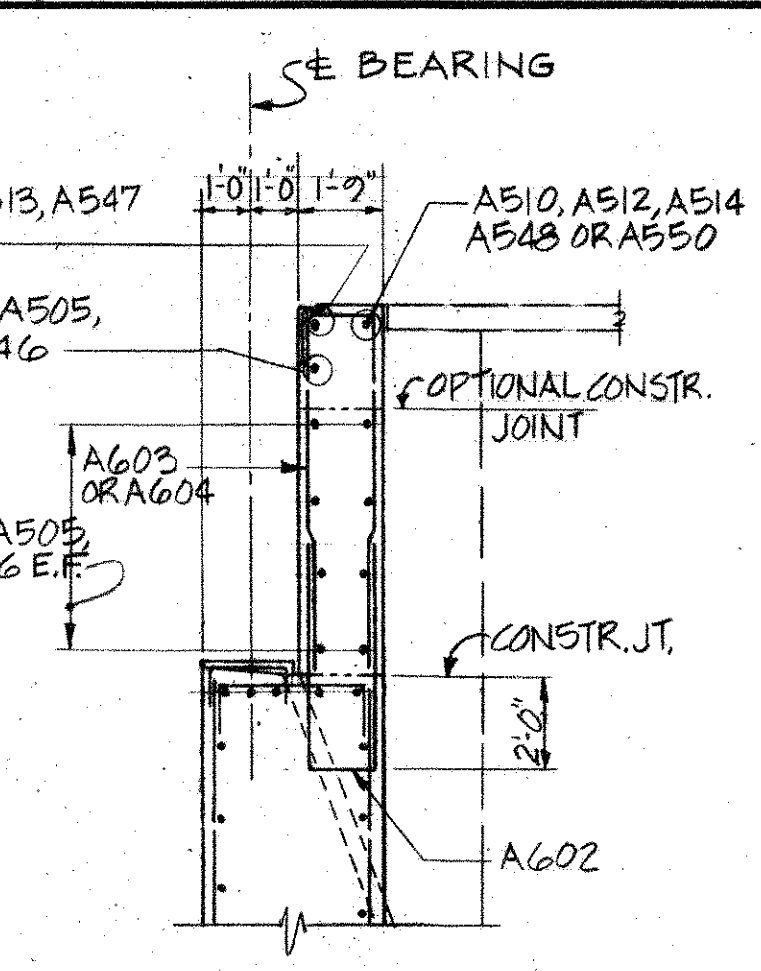
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| FED. RD. DIVISION | STATE | PROJECT |
| 2 | OHIO | |

116
136

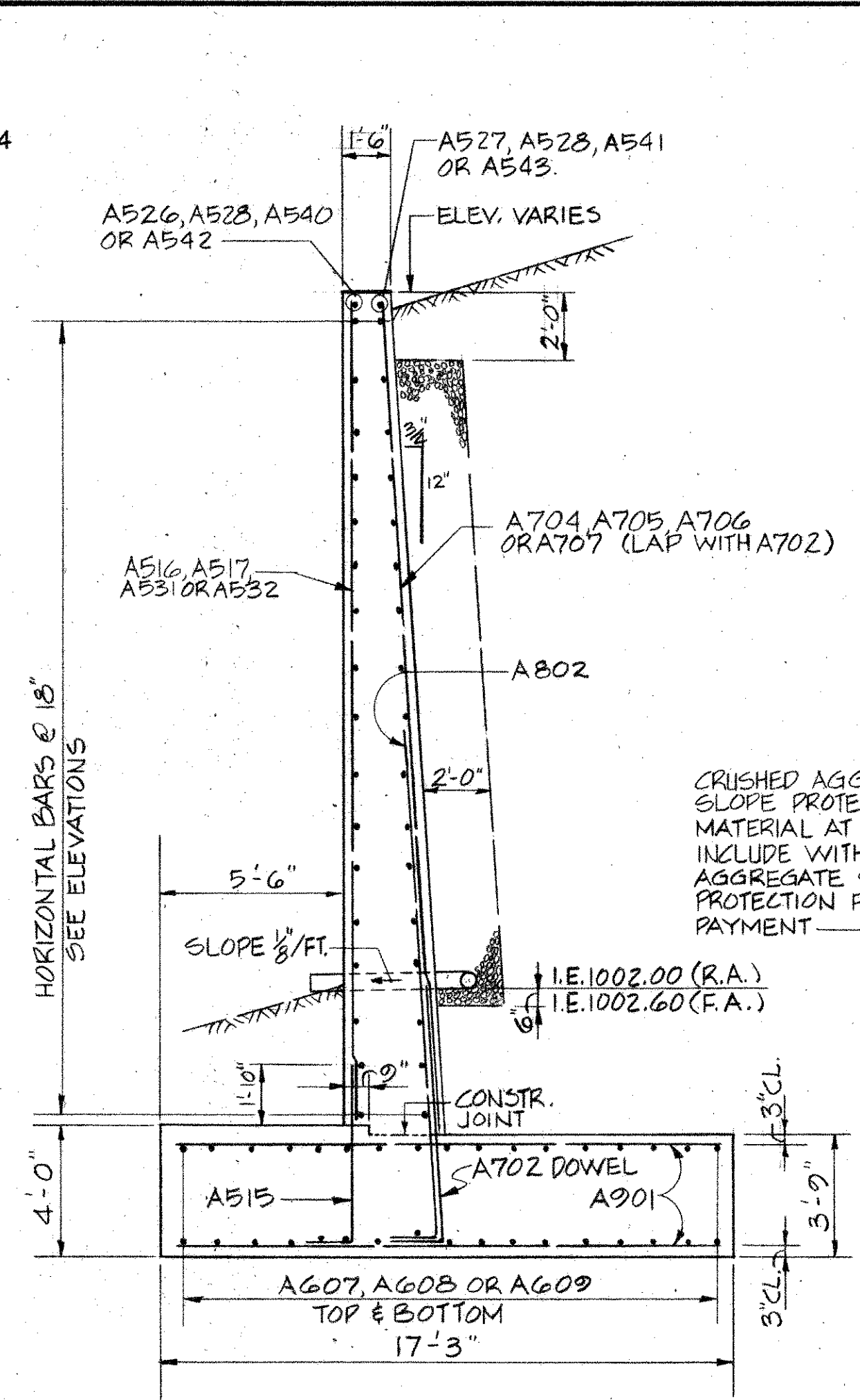
MOT-BIGGER RD.



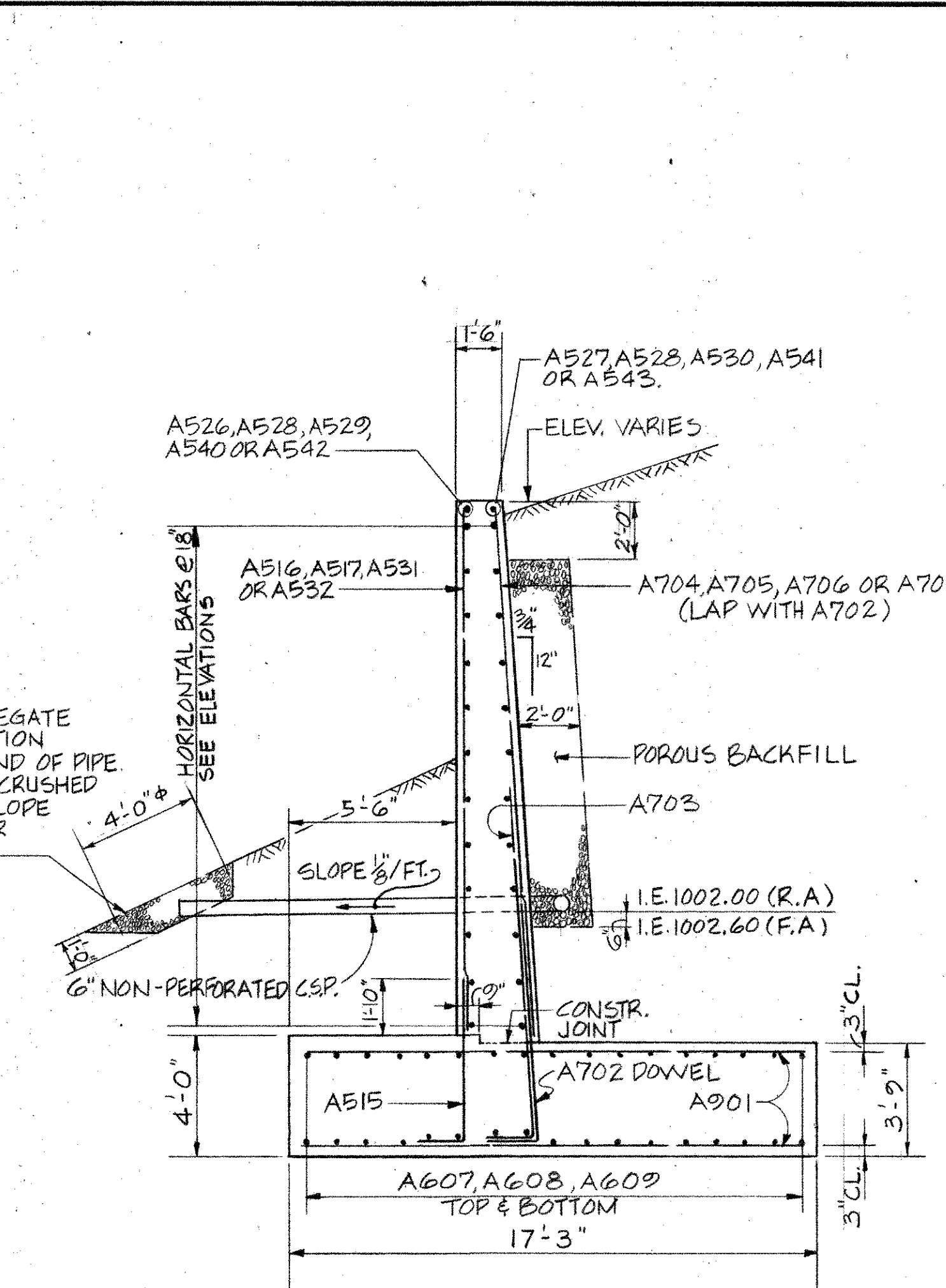
SECTION A-A



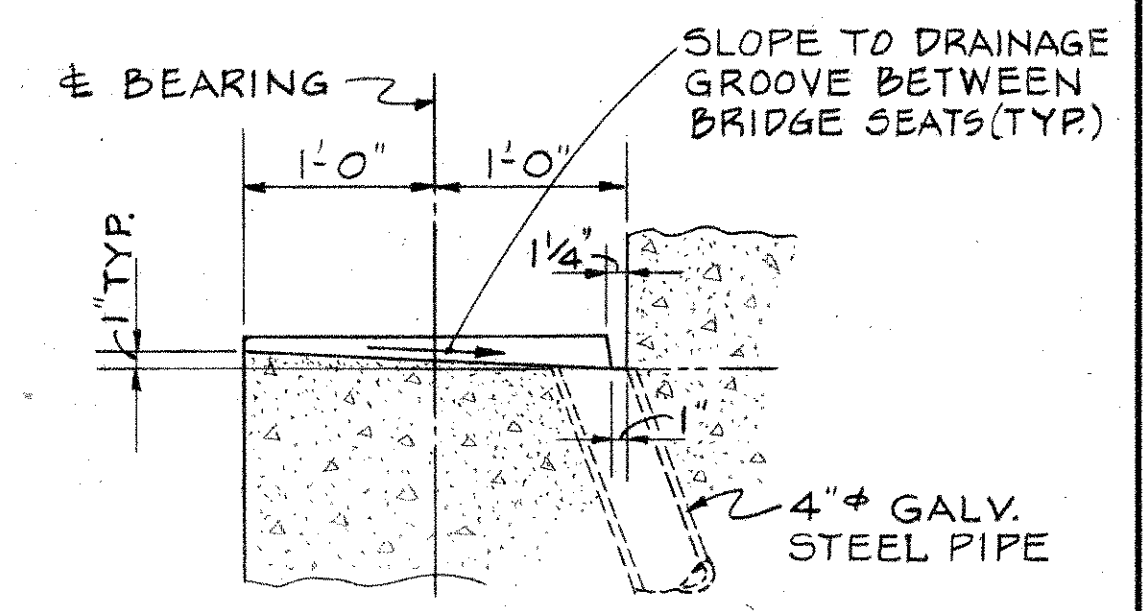
SECTION B-B



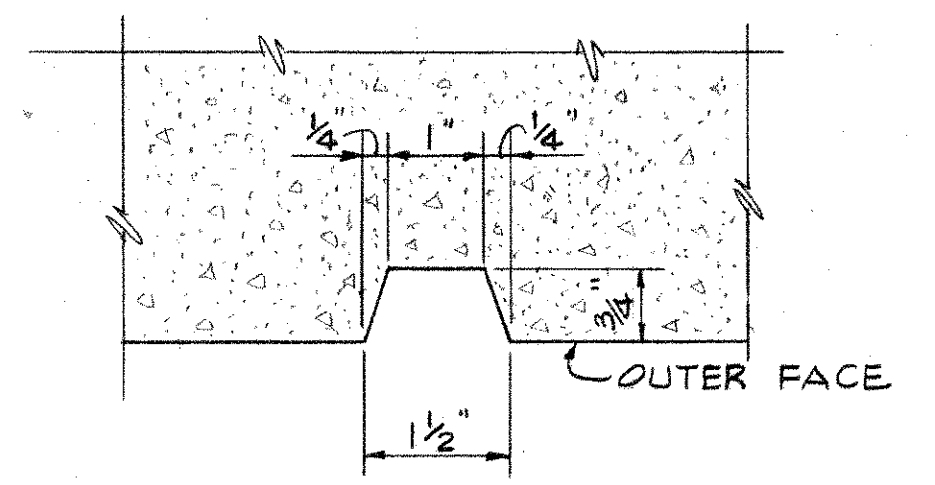
SECTION C-C



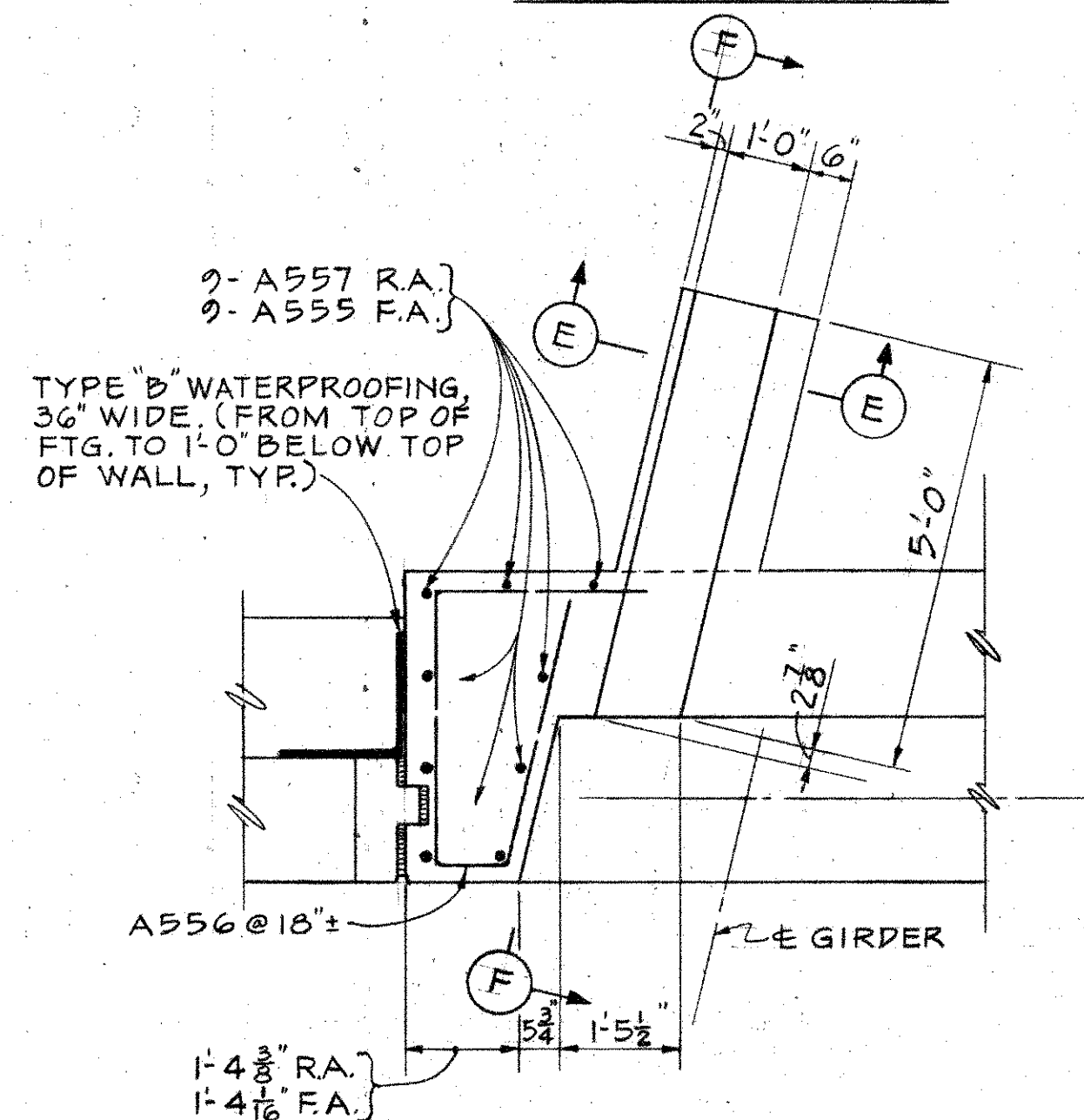
SECTION D-D



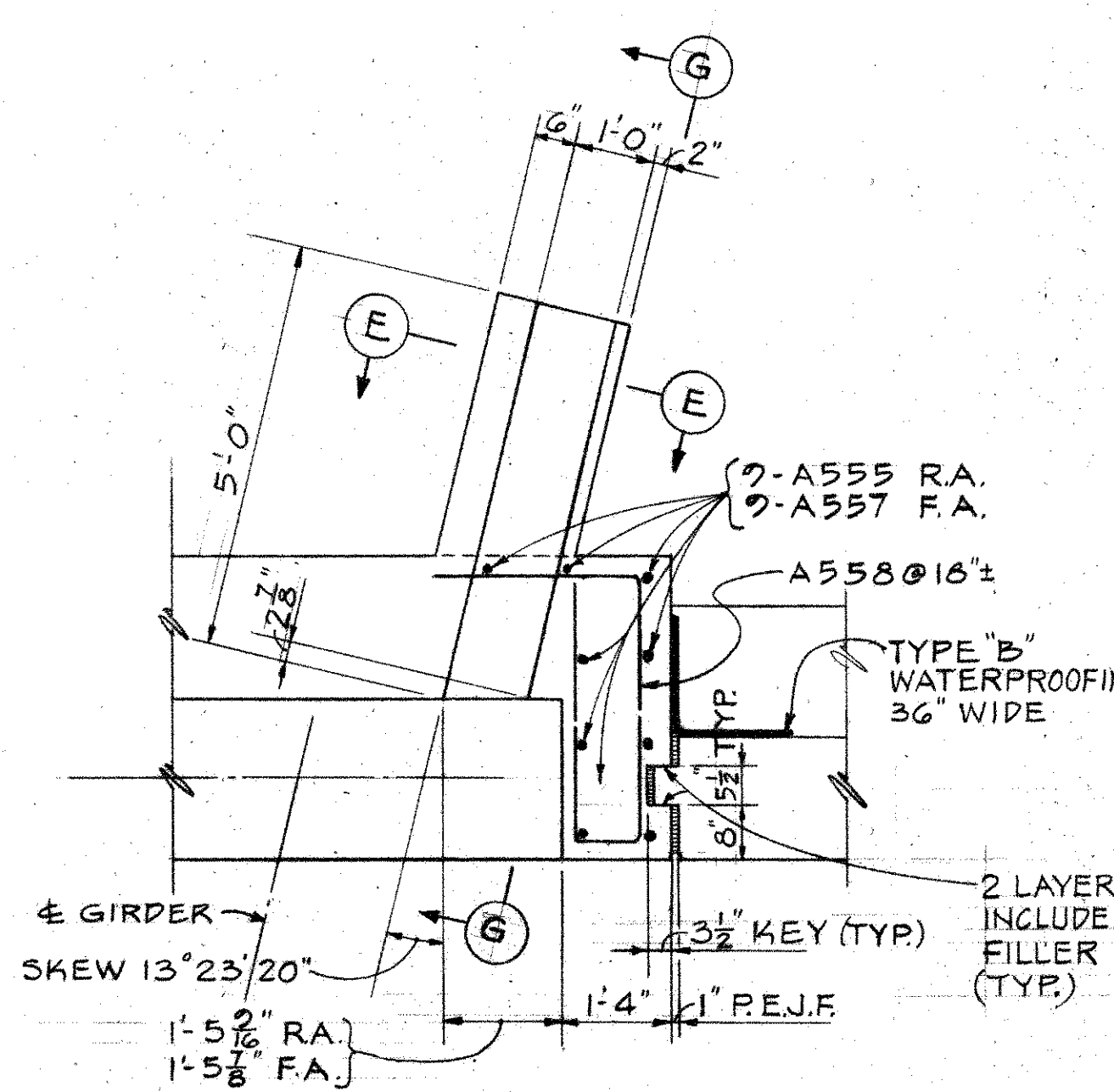
DETAIL "C"



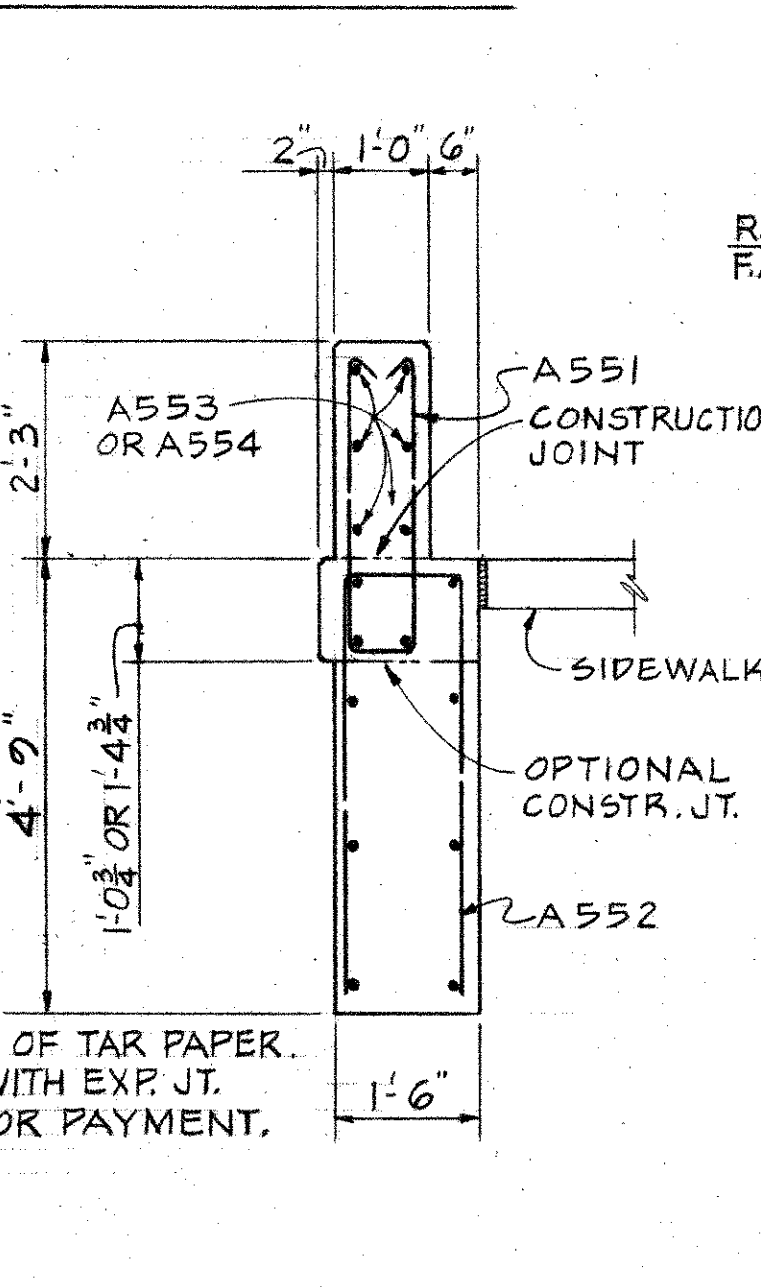
RUSTICATION GROOVE DETAIL



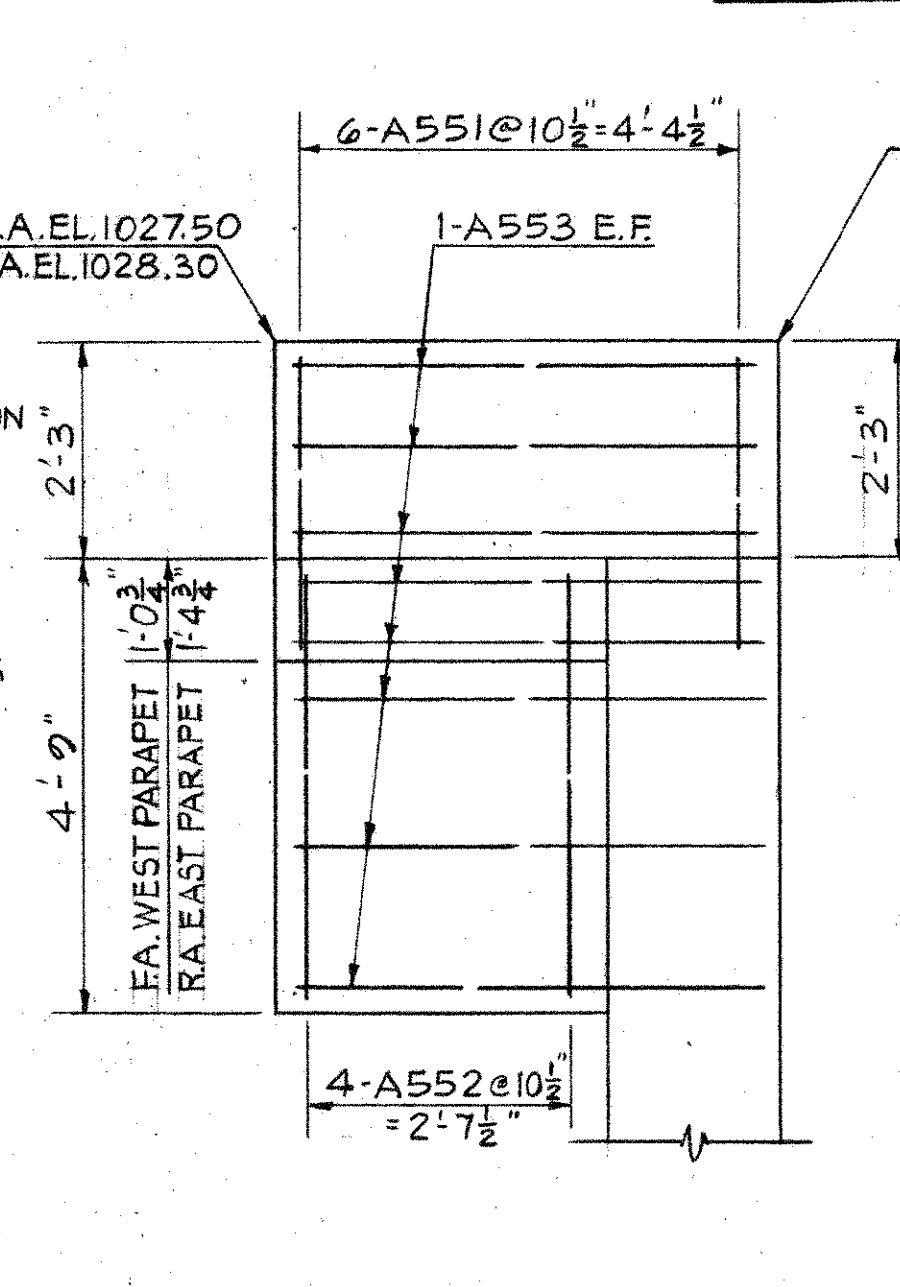
DETAIL "A"



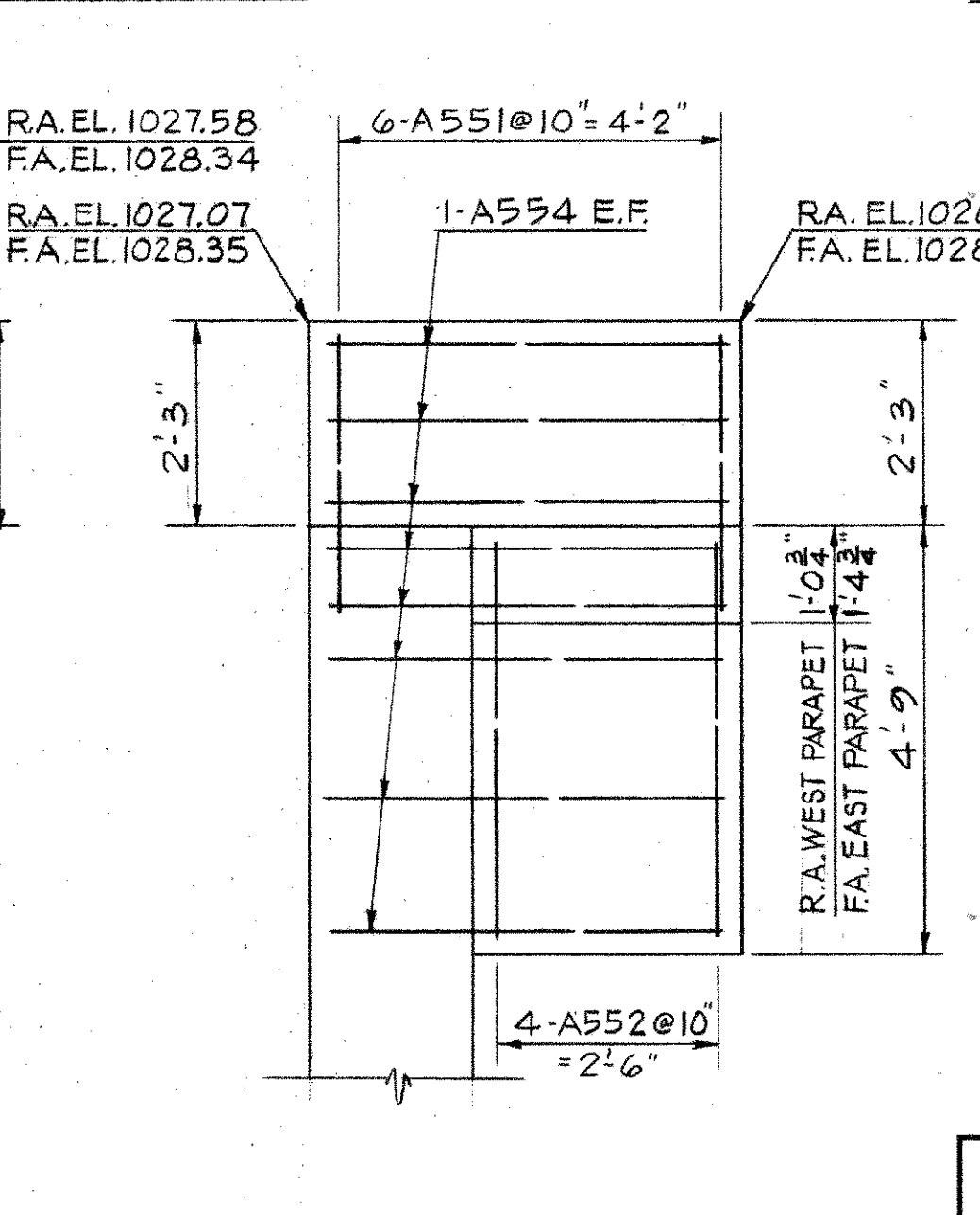
DETAIL "B"



SECTION E-E



SECTION F-F



SECTION G-G

NOTES
FOR LOCATIONS OF SECTIONS A-A & B-B, AND DETAILS "A" & "B", SEE SHEETS 4/15 AND 6/15.
FOR LOCATIONS OF SECTIONS C-C & D-D, SEE SHEETS 5/15 AND 7/15.

LEGEND
N.F. = NEAR FACE
F.F. = FAR FACE
E.F. = EACH FACE
R.A. = REAR ABUTMENT
F.A. = FORWARD ABUTMENT
R.E.J.F. = PREFORMED EXPANSION JOINT FILLER

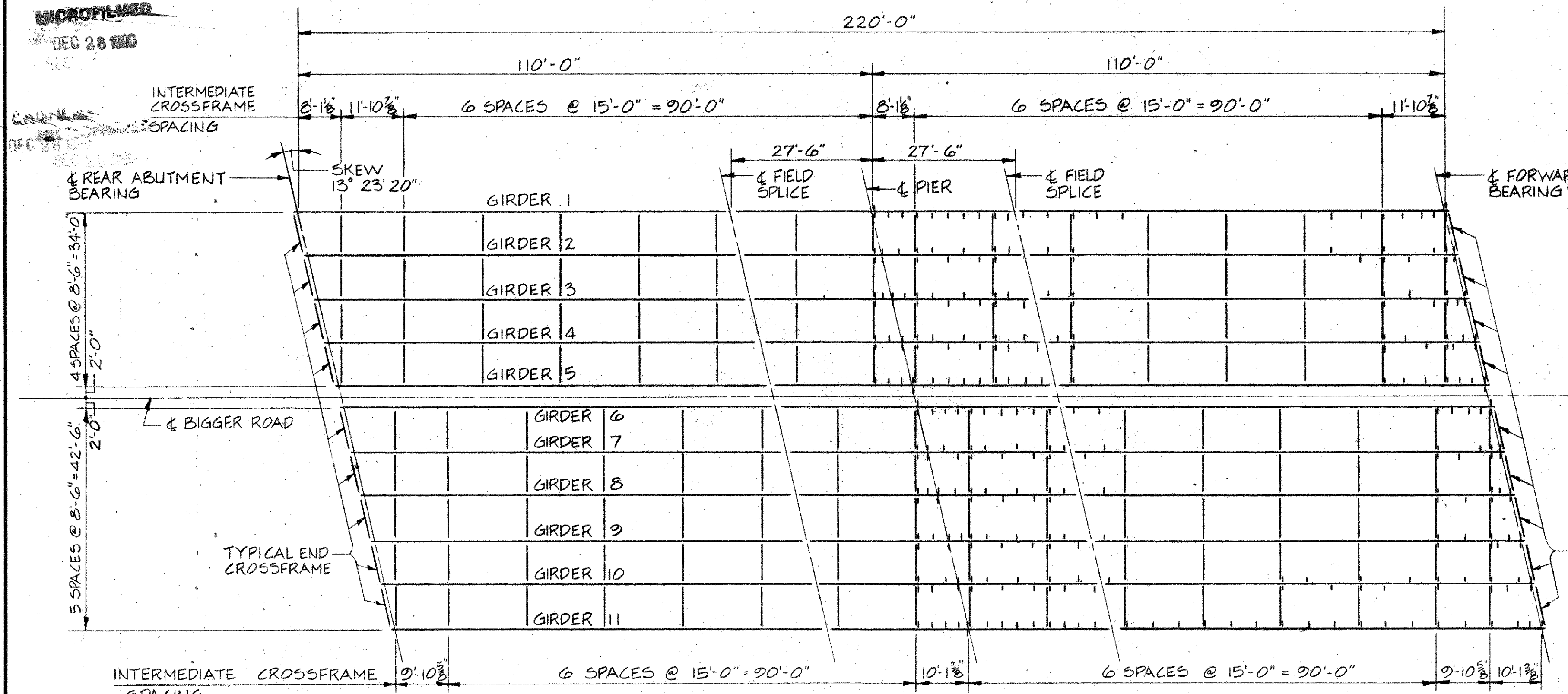
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|--|--------|--------|----------------|----------|---------------|
| A. M. KINNEY, INC. CINCINNATI, OHIO | | | | | |
| 8/15 | | | | | |
| ABUTMENT DETAILS | | | | | |
| BRIDGE NO MOT-675-0600 | | | | | |
| PROPOSED I-675 UNDER | | | | | |
| BIGGER ROAD | | | | | |
| MONTGOMERY CO. | | | STA. 359+45.02 | | |
| DESIGNED | DRAWN | TRACED | CHECKED | REVIEWED | DATE REVISION |
| S.R.B. | J.E.B. | J.E.B. | J.I.K. | J.C.O. | 9-3-82 |

MICROFILMED
DEC 28 1980

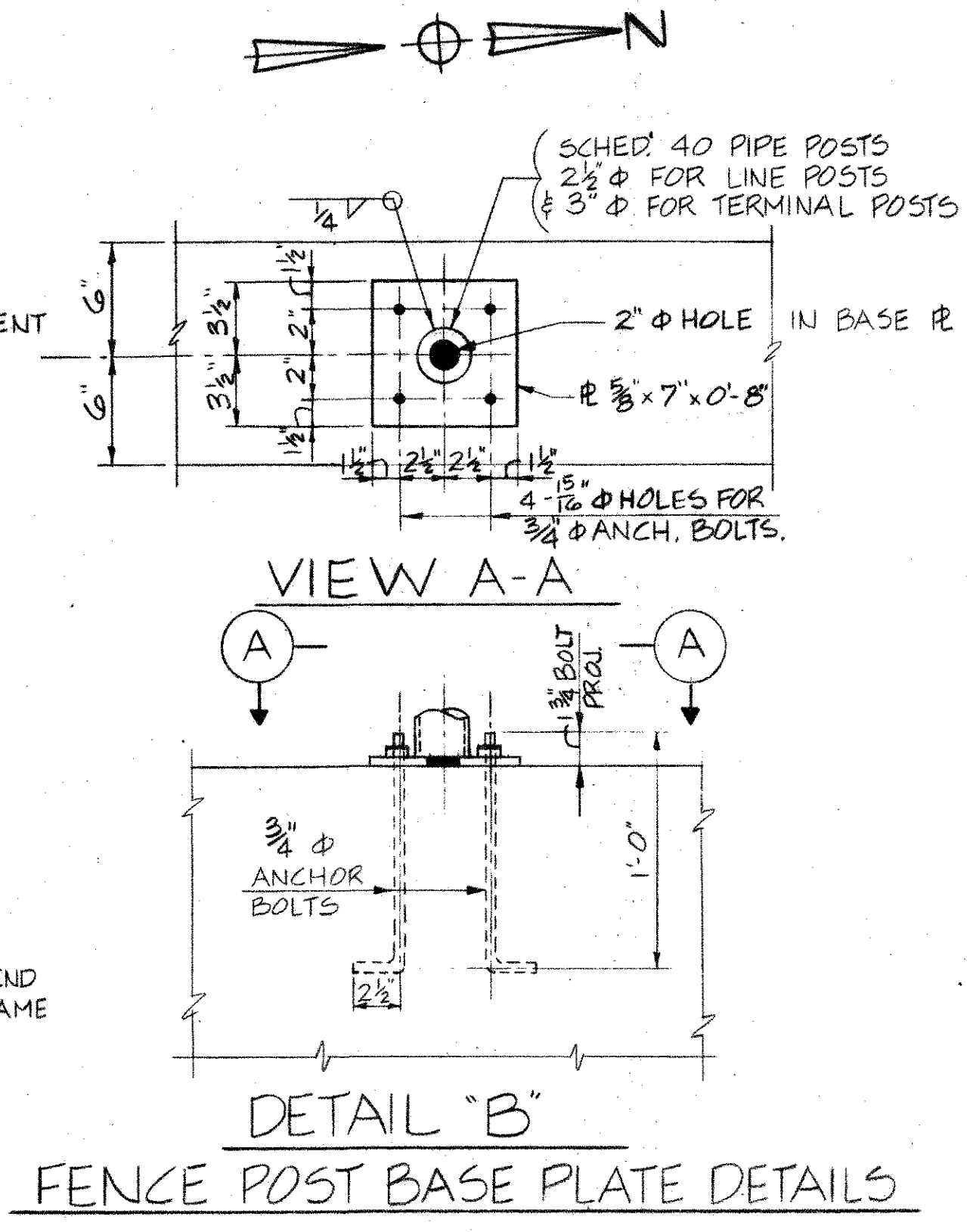
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|-------------------|-------|---------|
| FED. RD. DIVISION | STATE | PROJECT |
| 2 | OHIO | |

118
136

MOT-BIGGER RD.



STEEL FRAMING PLAN



FENCE POST BASE PLATE DETAILS

NOTES

ALL STRUCTURAL STEEL TO BE ASTM A588, WITHOUT PAINT, EXCEPT WHERE OTHERWISE SHOWN OR NOTED.

WHERE A SHAPE OR PLATE IS DESIGNATED (CVN), THE MATERIAL SHALL MEET SPECIFIED MINIMUM NOTCH TOUGHNESS REQUIREMENTS.

BEARINGS: IN LIEU OF A588 STEEL, A36 STEEL, GALVANIZED, SHALL BE FURNISHED FOR BEARINGS, EXCEPT FOR UPPER PLATE ELEMENT OF BEARINGS. THIS A36 STEEL SHALL BE INCLUDED WITH A588 STEEL QUANTITY FOR PAYMENT.

ROCKERS AT REAR AND FORWARD ABUTMENTS SHALL BE R-150. SEE STD. DWG. RB-1-55 FOR DETAILS.

FOR FIXED BEARINGS F-400 AT THE PIER, SEE DETAILS ON SH. 11/15 AND STD. DWG. FB-1-82.

FOR DETAILS OF END DAM, END CROSSFRAME AND COMPRESSION SEAL EXPANSION JOINTS AT ABUTMENTS, SEE TENTATIVE STANDARD DWG. TS-EXJ-2-81.

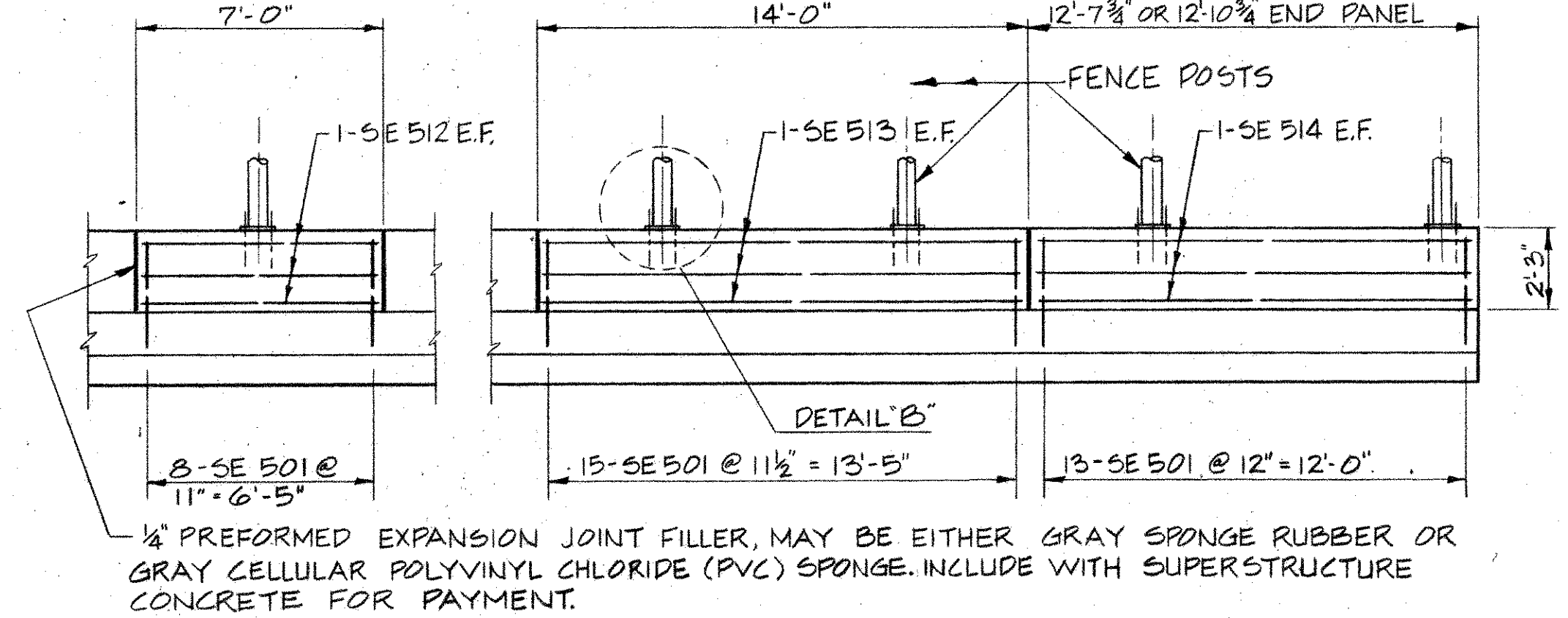
HIGH STRENGTH BOLTS SHALL BE 3/8" DIAMETER A325, TYPE 3, UNLESS OTHERWISE NOTED.

End Dam Materials: A588 or A36, with System B field paint on exposed steel surfaces. Field paint shall consist of two prime coats and one finish coat.

| Station | Elevation | Station | Elevation | Station | Elevation |
|----------|-----------|----------|-----------|----------|-----------|
| 37+85.99 | 1024.19 | 38+00.24 | 1025.25 | 38+15.50 | 1025.94 |
| 37+97.74 | 1024.48 | 38+10.79 | 1025.77 | 38+25.72 | 1025.99 |
| 38+11.49 | 1024.72 | 38+21.47 | 1025.51 | 38+35.97 | 1025.47 |
| 38+23.24 | 1024.92 | 38+32.14 | 1025.24 | 38+46.21 | 1025.45 |
| 38+35.00 | 1025.06 | 38+42.81 | 1025.16 | 38+56.46 | 1025.90 |
| 38+46.76 | 1025.16 | 38+53.48 | 1025.74 | 39+06.71 | 1025.35 |
| 38+58.52 | 1025.36 | 39+04.24 | 1025.74 | 39+16.96 | 1025.21 |
| 39+10.28 | 1025.51 | 39+14.51 | 1025.74 | 39+27.21 | 1025.77 |
| 39+21.03 | 1025.61 | 39+24.78 | 1025.74 | 39+37.46 | 1025.77 |
| 39+31.78 | 1025.71 | 39+35.03 | 1025.74 | 39+47.71 | 1025.77 |
| 39+42.53 | 1025.81 | 39+45.28 | 1025.74 | 39+57.96 | 1025.77 |
| 39+53.28 | 1025.91 | 40+00.00 | 1025.74 | | |
| 39+64.03 | 1026.01 | | | | |
| 39+74.28 | 1026.11 | | | | |
| 39+84.53 | 1026.21 | | | | |
| 39+94.78 | 1026.31 | | | | |
| 40+05.03 | 1026.41 | | | | |
| 40+15.28 | 1026.51 | | | | |
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| 40+87.03 | 1027.21 | | | | |
| 40+97.28 | 1027.31 | | | | |
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| 41+17.78 | 1027.51 | | | | |
| 41+28.03 | 1027.61 | | | | |
| 41+38.28 | 1027.71 | | | | |
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| 46+50.78 | 1032.71 | | | | |
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| 46+81.53 | 1033.01 | | | | |
| 46+91.78 | 1033.11 | | | | |
| 47+02.03 | 1033.21 | | | | |
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| 47+22.53 | 1033.41 | | | | |
| 47+32.78 | 1033.51 | | | | |
| 47+43.03 | 1033.61 | | | | |
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| 48+86.53 | 1035.01 | | | | |
| 48+96.78 | 1035.11 | | | | |
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| 49+58.28 | 1035.71 | | | | |
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| 49+99.28 | 1036.11 | | | | |
| 50+09.53 | 1036.21 | | | | |
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| 53+78.53 | 1039.81 | | | | |
| 53+88.78 | 1039.91 | | | | |
| 53+99.03 | 1040.01 | | | | |

SUPERSTRUCTURE CONCRETE PLACEMENT ELEVATIONS

THE TOP OF CONCRETE ELEVATIONS SHOWN ABOVE SHALL GOVERN THE PLACING OF FORMS OR SCREEDS PRIOR TO PLACING THE DECK CONCRETE. ALLOWANCE HAS BEEN MADE FOR THE DEFLECTION DUE TO THE WEIGHT OF CONCRETE.

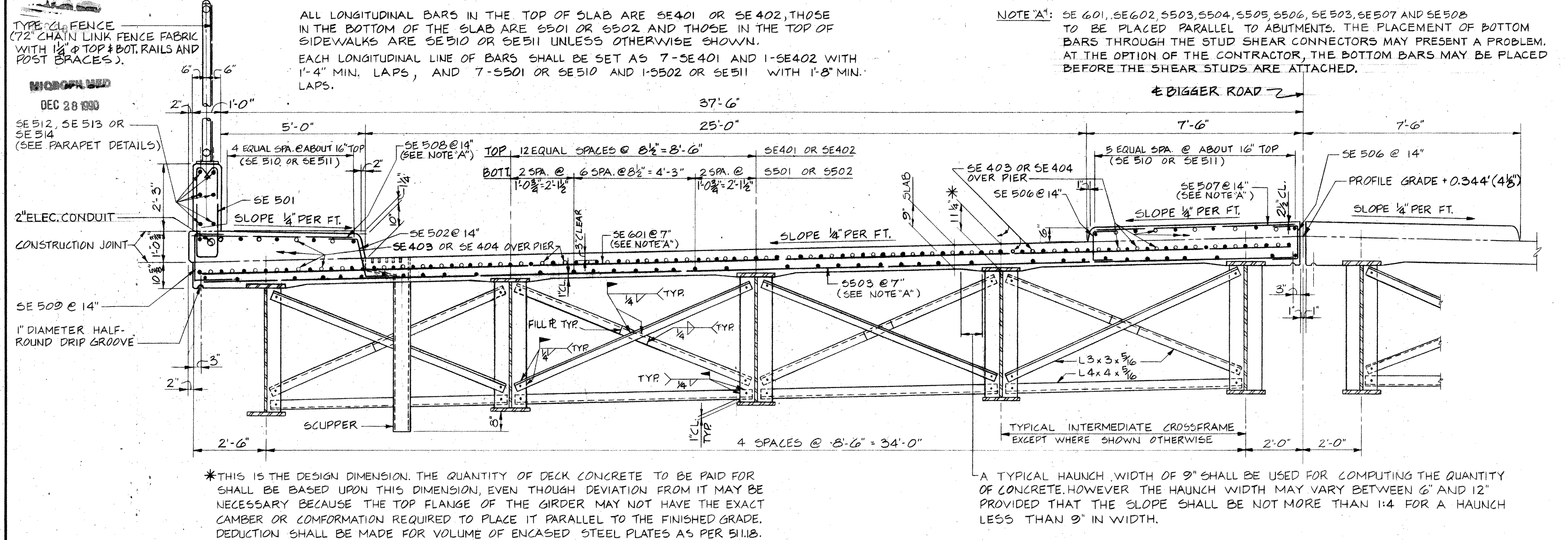


TYPICAL PARAPET PANEL DETAILS
(FOR LOCATION OF PANELS, SEE GENERAL PLAN SH. 13/14)

LEGEND
E.F. = EACH FACE

| | | |
|--|----------|----------------|
| A. M. KINNEY, INC. CINCINNATI, OHIO | | 10/15 |
| SUPERSTRUCTURE DETAILS | | |
| BRIDGE NO. MOT-675-0600 PROPOSED I-675 UNDER BIGGER ROAD | | |
| MONTGOMERY CO. | | STA. 359+45.02 |
| DESIGNED | DRAWN | TRACED |
| CHECKED | REVIEWED | DATE |
| REVISED | | |
| S.R.B. | J.E.B. | J.E.B. |
| J.I.K. | J.C.O. | 9-3-82 |

MOT-BIGGER RD.



*THIS IS THE DESIGN DIMENSION. THE QUANTITY OF DECK CONCRETE TO BE PAID FOR SHALL BE BASED UPON THIS DIMENSION, EVEN THOUGH DEVIATION FROM IT MAY BE NECESSARY BECAUSE THE TOP FLANGE OF THE GIRDER MAY NOT HAVE THE EXACT CAMBER OR CONFORMATION REQUIRED TO PLACE IT PARALLEL TO THE FINISHED GRADE. DEDUCTION SHALL BE MADE FOR VOLUME OF ENCASED STEEL PLATES AS PER 511.8.

A TYPICAL HAUNCH WIDTH OF 9" SHALL BE USED FOR COMPUTING THE QUANTITY OF CONCRETE. HOWEVER THE HAUNCH WIDTH MAY VARY BETWEEN 6" AND 12" PROVIDED THAT THE SLOPE SHALL BE NOT MORE THAN 1:4 FOR A HAUNCH LESS THAN 9" IN WIDTH.

TYPICAL TRANSVERSE SECTION (LEFT HALF)

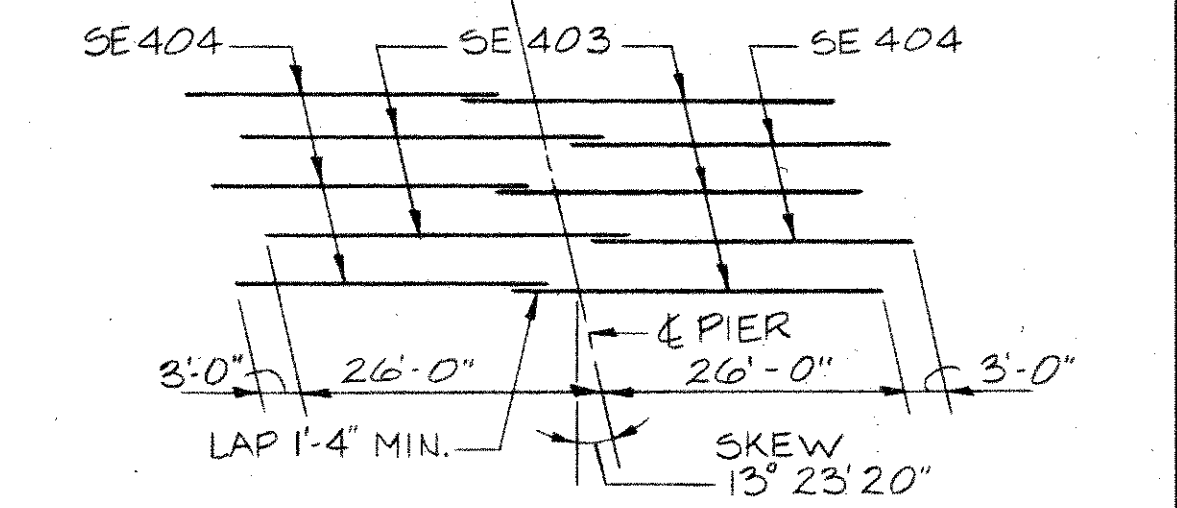
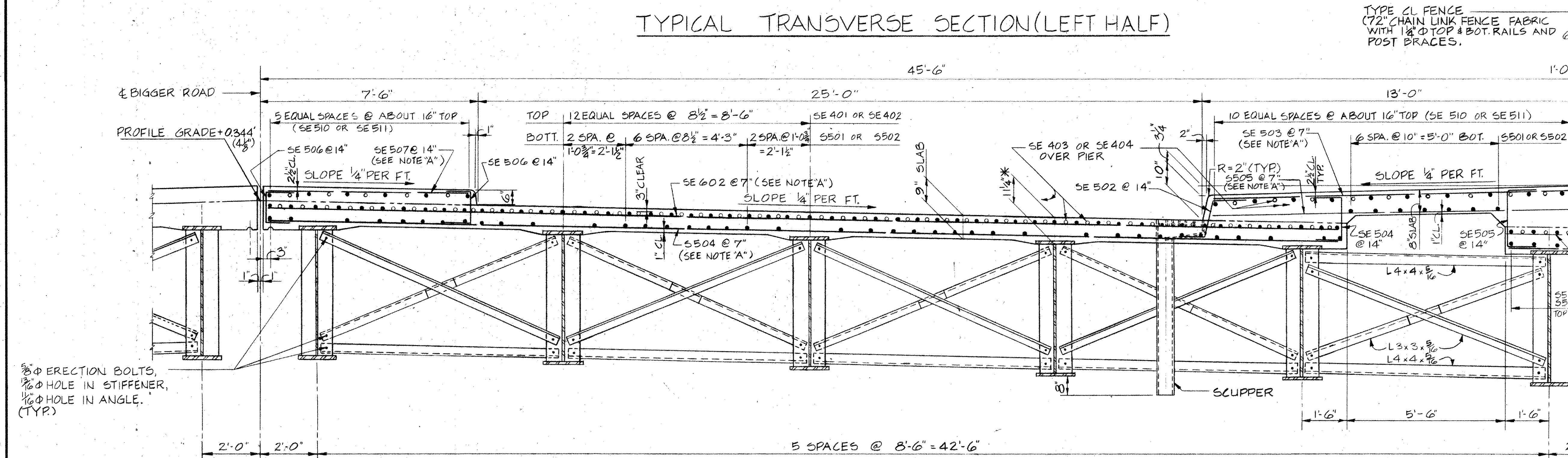
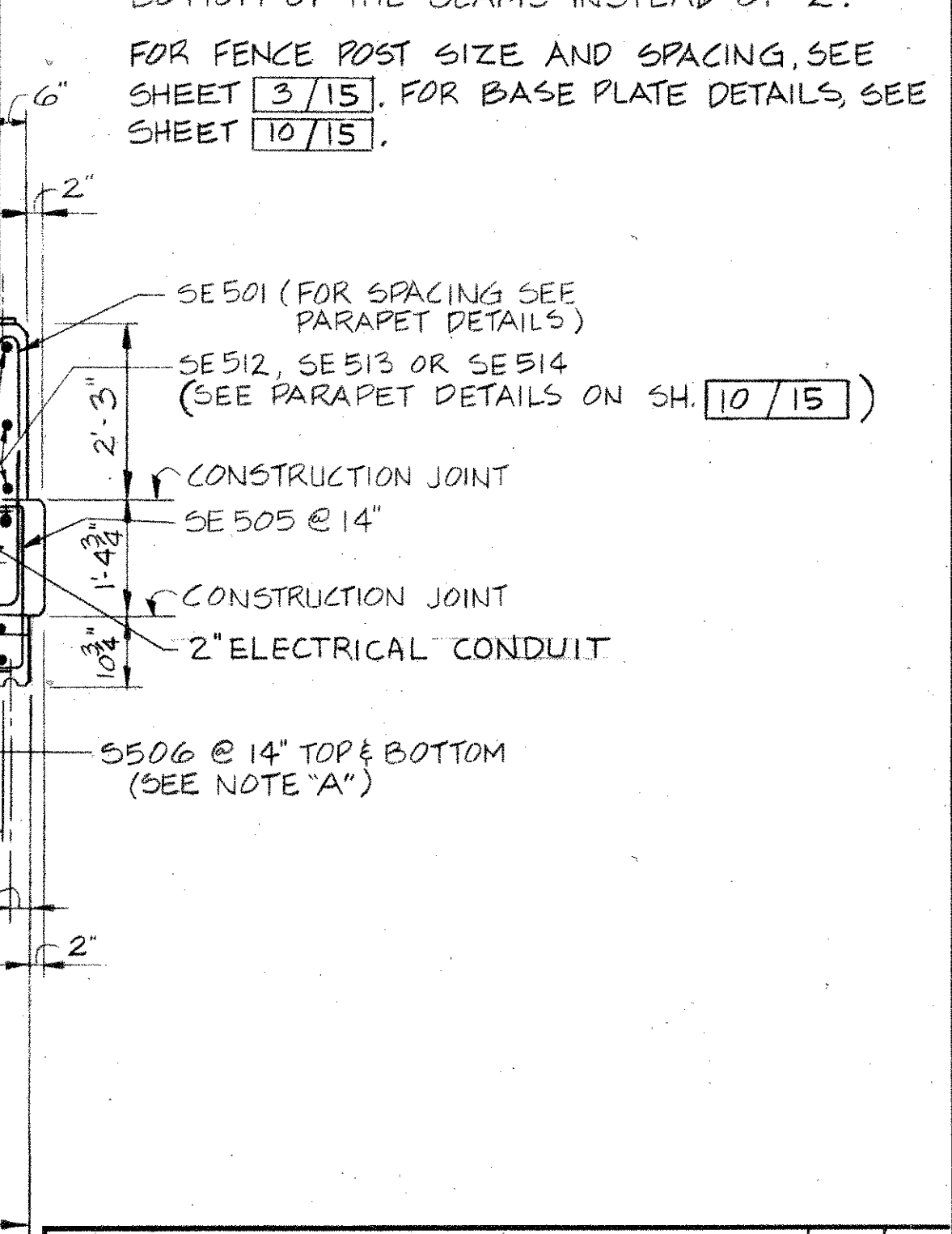


DIAGRAM SHOWING STAGGER OF SE 403 & SE 404 BARS OVER PIER

NOTES:
 CONCRETE PARAPETS ABOVE UPPER CONSTRUCTION JOINT SHALL BE PLACED IN ALTERNATE SECTIONS BY THE USE OF BULKHEADS. CLOSING SECTIONS SHALL BE PLACED AFTER REMOVAL OF BULKHEADS AND AFTER PLACEMENT OF EXPANSION JOINT FILLER. EXPOSED EDGES OF THE FILLER SHALL BE FLUSH WITH THE SURFACE OF CONCRETE AND SHALL BE FREE OF MORTAR.
 SCUPPERS SHALL BE IN ACCORDANCE WITH STANDARD DWG. SD-1-69 EXCEPT THAT SCUR PER PIPES SHALL EXTEND 8" BELOW THE BOTTOM OF THE BEAMS INSTEAD OF 2".
 FOR FENCE POST SIZE AND SPACING, SEE SHEET 3/15. FOR BASE PLATE DETAILS, SEE SHEET 10/15.



TYPICAL TRANSVERSE SECTION (RIGHT HALF)



A. M. KINNEY, INC.
 CINCINNATI, OHIO

| | | | | | |
|--------------------------------|--------|--------|----------------|----------|--------|
| SUPERSTRUCTURE DETAILS | | | | | |
| BRIDGE NO. MOT-675-0600 | | | | | |
| PROPOSED I-675 UNDER | | | | | |
| BIGGER ROAD | | | | | |
| MONTGOMERY CO. | | | STA. 359+45.02 | | |
| DESIGNED | DRAWN | TRACED | CHECKED | REVIEWED | DATE |
| S.R.B. | J.E.B. | J.E.B. | J.I.K. | J.C.O. | 9-3-82 |

GENERAL NOTES

PROTECTION OF CONCRETE SURFACES

ALL SURFACES OF THE PIERS ABOVE GROUND LINE AND VISIBLE SURFACES OF THE ABUTMENTS WHICH WILL BE EXPOSED TO RUST-LADEN WATER FROM CORROSION RESISTANT STEEL DURING INITIAL WEATHERING SHALL RECEIVE A CLEAR VINYL RESIN COATING TO PROTECT AGAINST ABSORPTIVE STAINING. THE COATING SHALL BE APPLIED AFTER THE CONCRETE HAS RECEIVED A FINAL SURFACE FINISH INCLUDING ANY GROUT CLEANING OR RUBBING AND BEFORE THE ERECTION OF THE STRUCTURAL STEEL. WATERPROOF MEMBRANE CURING COMPOUND AND CONCRETE CURING AND PROTECTIVE MEMBRANE, SUPPLEMENTAL SPECIFICATION 836 SHALL NOT BE USED ON THE SURFACES COATED WITH CLEAR PROTECTIVE COATING. SUCH SURFACES SHALL BE WATER CURED OR, AT THE CONTRACTOR'S OPTION, TWO FULL COATS OF CLEAR PROTECTIVE COATING, EACH APPROXIMATELY 1-1/3 MILS DRY FILM THICKNESS, MAY BE APPLIED TO ACT AS A COMBINATION CURING COMPOUND AND ANTI-STAINING AGENT.

THE AGENT SHALL BE APPLIED BY BRUSH OR ROLLER, OR BY SPRAYING, SO THAT THE SURFACE OF THE CONCRETE IS COMPLETELY AND UNIFORMLY COATED AT THE RATE OF ONE GALLON PER 200 SQUARE FT. THIS RATE OF APPLICATION WILL PROVIDE A DRY FILM THICKNESS OF 1-1/3 MILS. IF RUNNING OR SAGGING OCCURS, THE MATERIAL SHALL BE APPLIED IN TWO OR MORE COATS OF APPROXIMATELY EQUAL THICKNESS. NOT LESS THAN 10 MINUTES SHALL ELAPSE BETWEEN APPLICATIONS. WHEN APPLIED BY SPRAYING, THE COATING MATERIAL MAY BE THINNED WITH NOT MORE THAN 10 PERCENT TOLUENE.

THE COMPOSITION OF THE CLEAR PROTECTIVE COATING SHALL BE AS FOLLOWS:

| | PERCENT BY WEIGHT |
|-----------------------------|-------------------|
| VINYL RESIN* | 25.0 MIN. |
| METHYL ETHYL KETONE SOLVENT | 37.0 MIN. |
| TOLUENE SOLVENT | 37.0 MIN. |

*THE RESIN SHALL BE A VINYL CHLORIDE-ACETATE COPOLYMER CONTAINING 86 PERCENT VINYL CHLORIDE AND 14 PERCENT VINYL ACETATE. THE VISCOSITY OF A 22 PERCENT BY WEIGHT SOLUTION OF RESIN IN A SOLVENT, CONSISTING OF EQUAL PARTS OF METHYL ISOBUTYL KETONE AND TOLUENE, SHALL BE 250-500 CENTIPOISES AT 77F. THE RESIN SHALL BE UNION CARBIDE'S VYHH GRADE, OR APPROVED EQUAL.

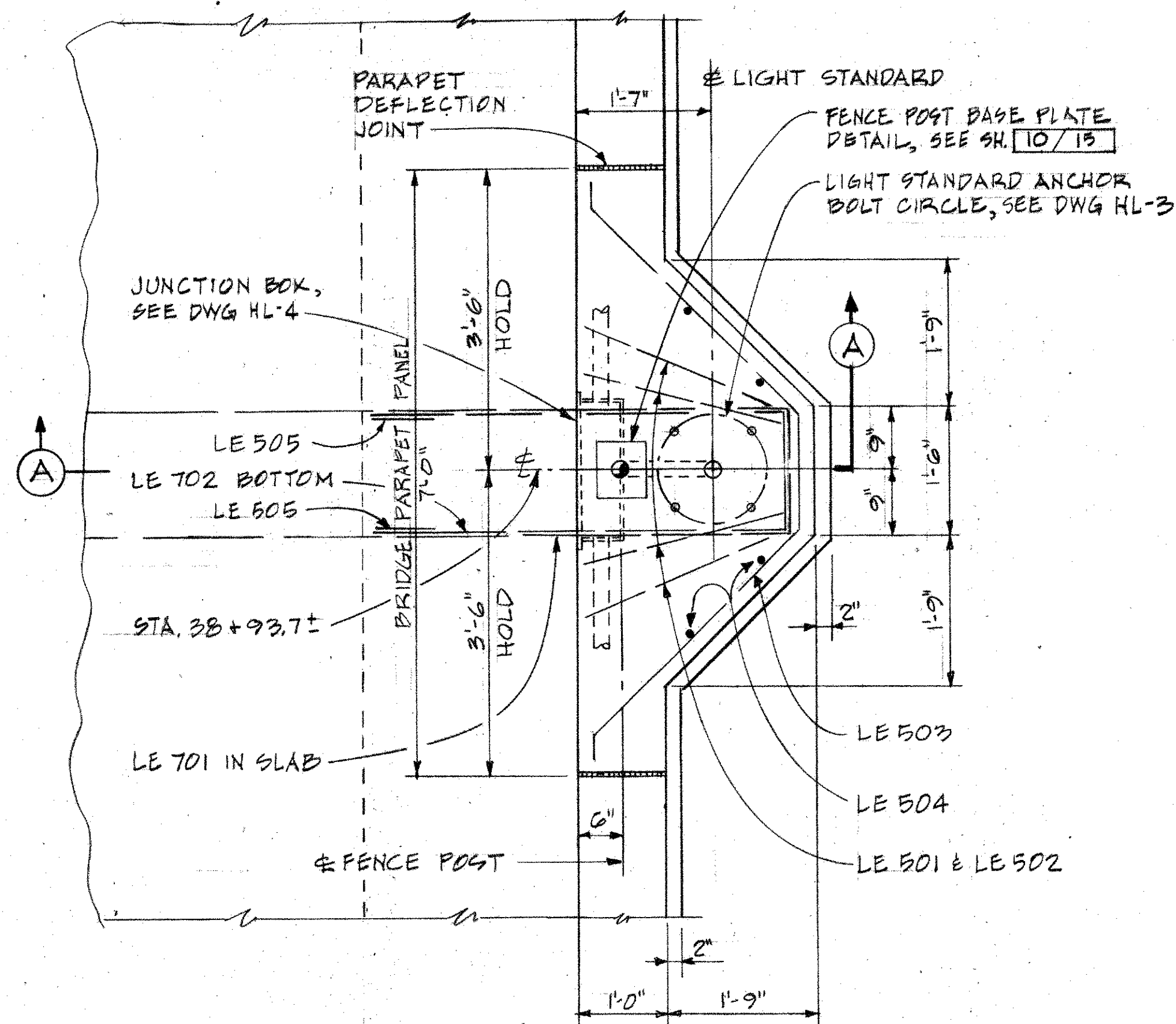
| COATING PROPERTIES: | WEIGHT PER GALLON AT 77F, LB. | 7.6 MIN. |
|---------------------|-------------------------------------|-------------------|
| | CONSISTENCY, VISCOSITY AT 77F, K.U. | 60-70 |
| | COLOR | CLEAR & COLORLESS |
| | DRYING TIME, HR. | 1/2 MAX. |

THE COST OF THIS APPLICATION SHALL BE IN THE UNIT PRICE BID FOR ITEM SPECIAL, SQ. FT. PROTECTION OF CONCRETE SURFACES.

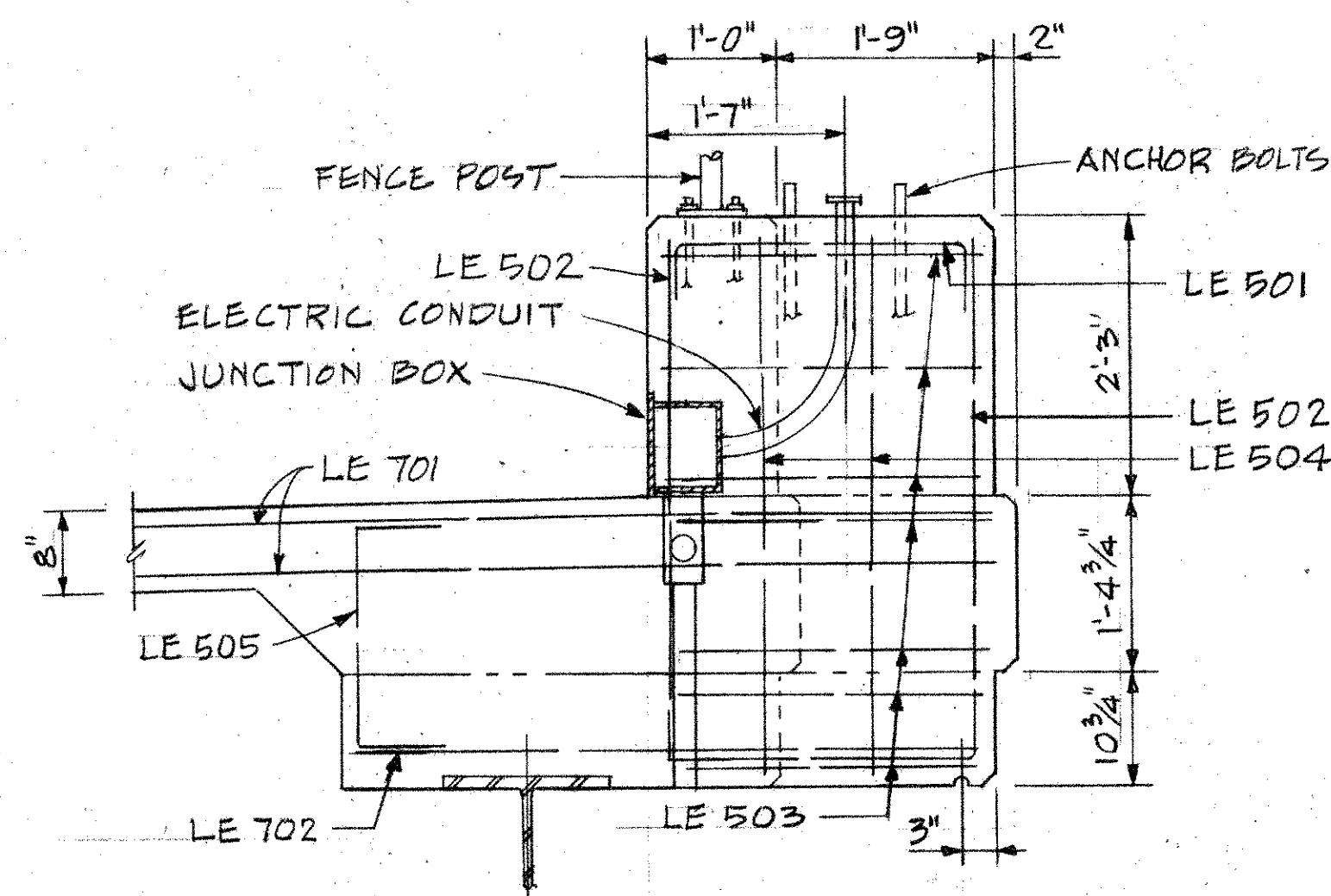
CLASS S CONCRETE, SUPERSTRUCTURE, USING SHRINKAGE COMPENSATING CEMENT, 701.08

THE FOLLOWING RESTRICTIONS SHALL APPLY.

1. CEMENT SHALL BE EXPANSIVE HYDRAULIC CEMENT, ASTM C845, TYPE K.
2. THE MAXIMUM WATER/CEMENT RATIO GIVEN FOR CLASS S CONCRETE IN 499.03 SHALL BE REVISED FROM 0.44 TO 0.50.
3. MAXIMUM SLUMP AT THE TIME AND PLACE OF CONCRETE PLACEMENT SHALL BE 6 INCHES.
4. CHEMICAL ADMIXTURES, WHEN REQUIRED BY 511.06, SHALL BE LIMITED TO 705.12 TYPE D.
5. MAXIMUM AMBIENT TEMPERATURE AT TIME OF PLACEMENT OF CONCRETE SHALL BE 80F.
6. MEMBRANE CURING PER SS836 WILL NOT BE PERMITTED FOR ANY CONCRETE PLACED BETWEEN SEPTEMBER 1 AND MARCH 31. SUCH CONCRETE SHALL BE CURED BY METHOD (a) WATER CURING.
7. IF REQUIRED BY THE ENGINEER, THE SURFACE OF THE CONCRETE SHALL BE GIVEN A FOG SPRAY OF WATER. THIS MAY BE REQUIRED PRIOR TO EITHER WATER CURING OR MEMBRANE CURING IF WEATHER CONDITIONS DICTATE. EQUIPMENT SHALL BE ON HAND.



PLAN LIGHT STANDARD PEDESTAL



SECTION A-A

FOR ADDITIONAL DIMENSIONS & DETAILS SEE STANDARD LIGHTING DWG. HL-4.

| | | | | | | |
|--|--------|--------|---------|----------------|--------|---------|
| A. M. KINNEY, INC. CINCINNATI, OHIO | | | | | | 13 / 15 |
| GENERAL NOTES & DETAILS | | | | | | |
| BRIDGE NO. MOT-675-0600 PROPOSED I-675 UNDER BIGGER ROAD | | | | | | |
| MONTGOMERY CO. | | | | STA. 359+45.02 | | |
| DESIGNED | DRAWN | TRACED | CHECKED | REVIEWED | DATE | REVISED |
| R.E.T. | R.E.T. | R.E.T. | J.I.K. | JCO | 9-3-82 | |

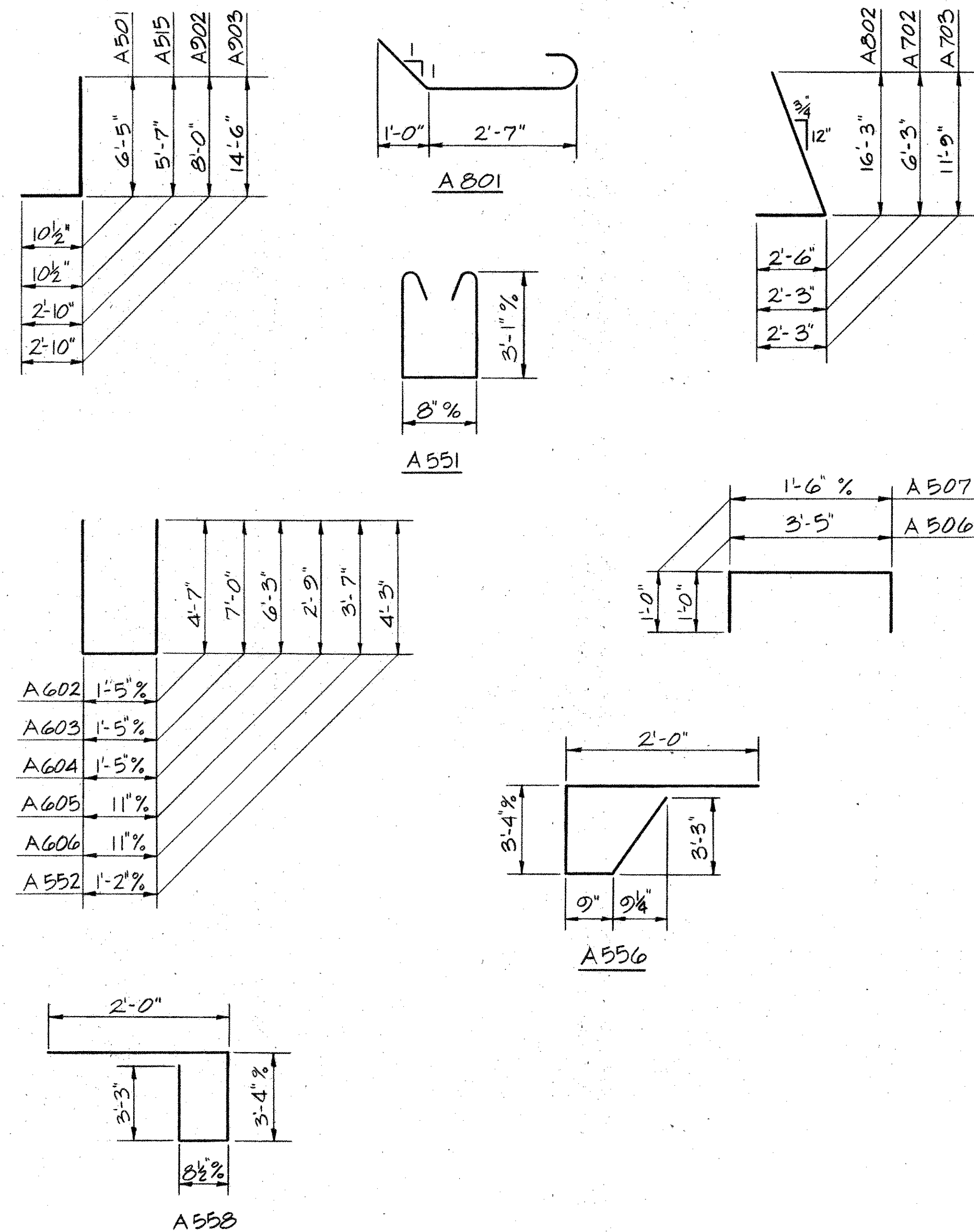
STEEL LIST
BENDING DIAGRAM

| | | |
|---------------|-------|---------|
| FED. DIVISION | STATE | PROJECT |
| 2 | OHIO | |

122
136

MOT-BIGGER RD.

| MARK | NO. | LENGTH | WEIGHT | SHP | REAR ABUT. | FWD ABUT. |
|-----------|-----|---------|--------|-----|------------|-----------|
| ABUTMENTS | | | | | | |
| A1001 | 244 | 16'-9" | 17,586 | S | 122 | 122 |
| A 901 | 632 | 16'-9" | 35,992 | S | 326 | 306 |
| A 902 | 244 | 17'-7" | 8,780 | B | 122 | 122 |
| A 903 | 240 | 17'-1" | 13,940 | B | 120 | 120 |
| A 904 | 122 | 14'-10" | 6,153 | S | 122 | - |
| A 905 | 122 | 14'-3" | 5,911 | S | - | 122 |
| | | | | | | |
| A 801 | 72 | 4'-11" | 945 | B | 36 | 36 |
| A 802 | 95 | 18'-7" | 4,714 | B | 50 | 45 |
| | | | | | | |
| A 701 | 244 | 9'-0" | 4,489 | S | 122 | 122 |
| A 702 | 194 | 8'-4" | 3,305 | B | 102 | 92 |
| A 703 | 95 | 13'-10" | 2,686 | B | 50 | 45 |
| A 704 | 49 | "D" | 1,970 | S | 49 | - |
| A 705 | 53 | "F" | 2,022 | S | 53 | - |
| A 706 | 43 | "Q" | 1,718 | S | - | 43 |
| A 707 | 49 | "S" | 1,957 | S | - | 49 |
| | | | | | | |
| A 601 | 204 | 34'-5" | 10,546 | S | 102 | 102 |
| A 602 | 280 | 10'-3" | 4,311 | B | 140 | 140 |
| A 603 | 36 | 15'-1" | 816 | B | 18 | 18 |
| A 604 | 28 | 13'-7" | 571 | B | 14 | 14 |
| A 605 | 104 | 6'-1" | 950 | B | 52 | 52 |
| A 606 | 4 | 7'-9" | 47 | B | 2 | 2 |
| A 607 | 34 | "A" | 1,858 | S* | 34 | - |
| A 608 | 68 | "B" | 3,490 | S* | 34 | 34 |
| A 609 | 34 | "N" | 1,479 | S* | - | 34 |
| | | | | | | |
| A 501 | 125 | 7'-2" | 934 | B | 63 | 62 |
| A 502 | 63 | 20'-0" | 1,314 | S | 63 | - |
| A 503 | 164 | 30'-0" | 5,132 | S | 84 | 80 |
| A 504 | 42 | 13'-10" | 606 | S | 42 | - |
| A 505 | 42 | 22'-6" | 986 | S | 42 | - |
| A 506 | 125 | 5'-2" | 674 | B | 63 | 62 |
| A 507 | 154 | 3'-3" | 522 | B | 77 | 77 |
| A 508 | 4 | 32'-2" | 134 | S | 2 | 2 |
| A 509 | 4 | 7'-2" | 30 | S | 2 | 2 |
| A 510 | 4 | 6'-5" | 27 | S | 2 | 2 |
| A 511 | 1 | 16'-2" | 17 | S | 1 | - |
| A 512 | 1 | 15'-10" | 17 | S | 1 | - |
| A 513 | 1 | 7'-4" | 8 | S | 1 | - |
| A 514 | 1 | 6'-4" | 7 | S | 1 | - |
| A 515 | 99 | 6'-4" | 654 | B | 52 | 47 |
| A 516 | 25 | "C" | 506 | S | 25 | - |
| A 517 | 27 | "E" | 519 | S | 27 | - |
| A 518 | 18 | 36'-3" | 681 | S* | 9 | 9 |



| MARK | NO. | LENGTH | WEIGHT | SHP | REAR ABUT. | FWD ABUT. |
|-----------|-----|---------|--------|-----|------------|-----------|
| ABUTMENTS | | | | | | |
| A 519 | 9 | "G" | 328 | S* | 9 | - |
| A 520 | 7 | 39'-3" | 287 | S* | 7 | - |
| A 521 | 7 | "H" | 273 | S* | 7 | - |
| A 522 | 11 | "J" | 250 | S* | 11 | - |
| A 523 | 11 | "K" | 240 | S* | 11 | - |
| A 524 | 9 | "L" | 181 | S* | 9 | - |
| A 525 | 9 | "M" | 176 | S* | 9 | - |
| A 526 | 1 | 38'-10" | 41 | S* | 1 | - |
| A 527 | 1 | 38'-1" | 40 | S* | 1 | - |
| A 528 | 2 | 30'-0" | 63 | S* | 2 | - |
| A 529 | 1 | 15'-2" | 16 | S* | 1 | - |
| A 530 | 1 | 14'-0" | 15 | S* | - | - |
| A 531 | 22 | "P" | 443 | S | - | 22 |
| A 532 | 25 | "R" | 503 | S | - | 25 |
| A 533 | 9 | "T" | 328 | S* | - | 9 |
| A 534 | 9 | 31'-4" | 294 | S* | - | 9 |
| A 535 | 9 | "U" | 282 | S* | - | 9 |
| A 536 | 9 | "V" | 144 | S* | - | 9 |
| A 537 | 9 | "W" | 138 | S* | - | 9 |
| A 538 | 9 | "X" | 167 | S* | - | 9 |
| A 539 | 9 | "Y" | 161 | S* | - | 9 |
| A 540 | 1 | 34'-1" | 36 | S* | - | 1 |
| A 541 | 1 | 33'-3" | 35 | S* | - | 1 |
| A 542 | 1 | 38'-9" | 40 | S* | - | 1 |
| A 543 | 1 | 38'-0" | 40 | S* | - | 1 |
| A 544 | 62 | 19'-5" | 1,256 | S | - | 62 |
| A 545 | 40 | 14'-3" | 595 | S | - | 40 |
| A 546 | 40 | 22'-1" | 921 | S | - | 40 |
| A 547 | 1 | 7'-11" | 8 | S | - | 1 |
| A 548 | 1 | 7'-7" | 8 | S | - | 1 |
| A 549 | 1 | 15'-7" | 16 | S | - | 1 |
| A 550 | 1 | 14'-7" | 15 | S | - | 1 |
| A 551 | 24 | 7'-5" | 186 | B | 12 | 12 |
| A 552 | 16 | 9'-5" | 157 | B | 8 | 8 |
| A 553 | 32 | 4'-8" | 156 | S | 16 | 16 |
| A 554 | 32 | 4'-5" | 147 | S | 16 | 16 |
| A 555 | 18 | 9'-3" | 174 | S | 9 | 9 |
| A 556 | 12 | 9'-1" | 114 | B | 6 | 6 |
| A 557 | 18 | 9'-7" | 180 | S | 9 | 9 |
| A 558 | 12 | 8'-11" | 112 | B | 6 | 6 |

A = 2 SERIES OF 17-A607, VARIES FROM 28'-1" TO 44'-8" BY 1'-0 1/2" INCREMENTS
 B = 4 " " " 17-A608, " " " 28'-0" " 40'-4" " 9 1/4" " "
 C = 1 " " " 25-A516, " " " 12'-2" " 26'-8" " 7 1/2" " "
 D = 1 " " " 49-A704, " " " 12'-5" " 26'-11" " 3 3/8" " "
 E = 1 " " " 27-A517, " " " 9'-8" " 27'-2" " 8 1/2" " "
 F = 1 " " " 53-A705, " " " 9'-11" " 27'-5" " 4" " "
 G = 1 " " " 9-A519, " " " 34'-7" " 35'-3" " 1" " "
 H = 1 " " " 7-A521, " " " 37'-1" " 37'-9" " 1 1/2" " "
 J = 1 " " " 11-A522, " " " 5'-0" " 38'-6" " 3'-4 1/2" " "
 K = 1 " " " 11-A523, " " " 4'-10" " 37'-0" " 3'-2 3/8" " "
 L = 1 " " " 9-A524, " " " 4'-3" " 34'-3" " 3'-9" " "
 M = 1 " " " 9-A525, " " " 4'-2" " 33'-4" " 3'-7 3/8" " "
 N = 2 " " " 17-A609, " " " 22'-4" " 35'-7" " 10" " "
 P = 1 " " " 22-A531, " " " 12'-2" " 26'-5" " 8 3/8" " "
 Q = 1 " " " 43-A706, " " " 12'-5" " 26'-8" " 4 1/2" " "
 R = 1 " " " 25-A532, " " " 12'-2" " 26'-5" " 7 3/8" " "
 S = 1 " " " 49-A707, " " " 12'-5" " 26'-8" " 3 1/16" " "
 T = 1 " " " 9-A533, " " " 34'-8" " 35'-3" " 7 3/8" " "
 U = 1 " " " 9-A535, " " " 29'-7" " 30'-6" " 1 1/2" " "
 V = 1 " " " 9-A536, " " " 2'-2" " 28'-5" " 3'-3 3/8" " "
 W = 1 " " " 9-A537, " " " 2'-0" " 27'-4" " 3'-2" " "
 X = 1 " " " 9-A538, " " " 2'-6" " 33'-0" " 3'-9 3/8" " "
 Y = 1 " " " 9-A539, " " " 2'-4" " 32'-0" " 3'-8 1/2" " "

* CURVE IN FIELD AS NECESSARY. INCLUDE WITH REINFORCING STEEL FOR PAYMENT.

NOTES

REINFORCING STEEL SAMPLES;
 REFER TO CMS SECTIONS 106.03, 700, 709.01 THROUGH 709.05
 AND 709.08. SUFFICIENT ADDITIONAL REINFORCING STEEL
 SHALL BE PROVIDED FOR SAMPLING. RANDOM SAMPLES SHALL BE
 REPLACED IN THE STRUCTURES BY THE ADDITIONAL STEEL,
 SPLICED IN ACCORDANCE WITH 509.08.

14/15

A. M. KINNEY, INC.
CINCINNATI, OHIO

REINFORCING STEEL LIST
BRIDGE NO. MOT-675-0600
PROPOSED I-675 UNDER
BIGGER ROAD
MONTGOMERY CO. STA. 359+45.02

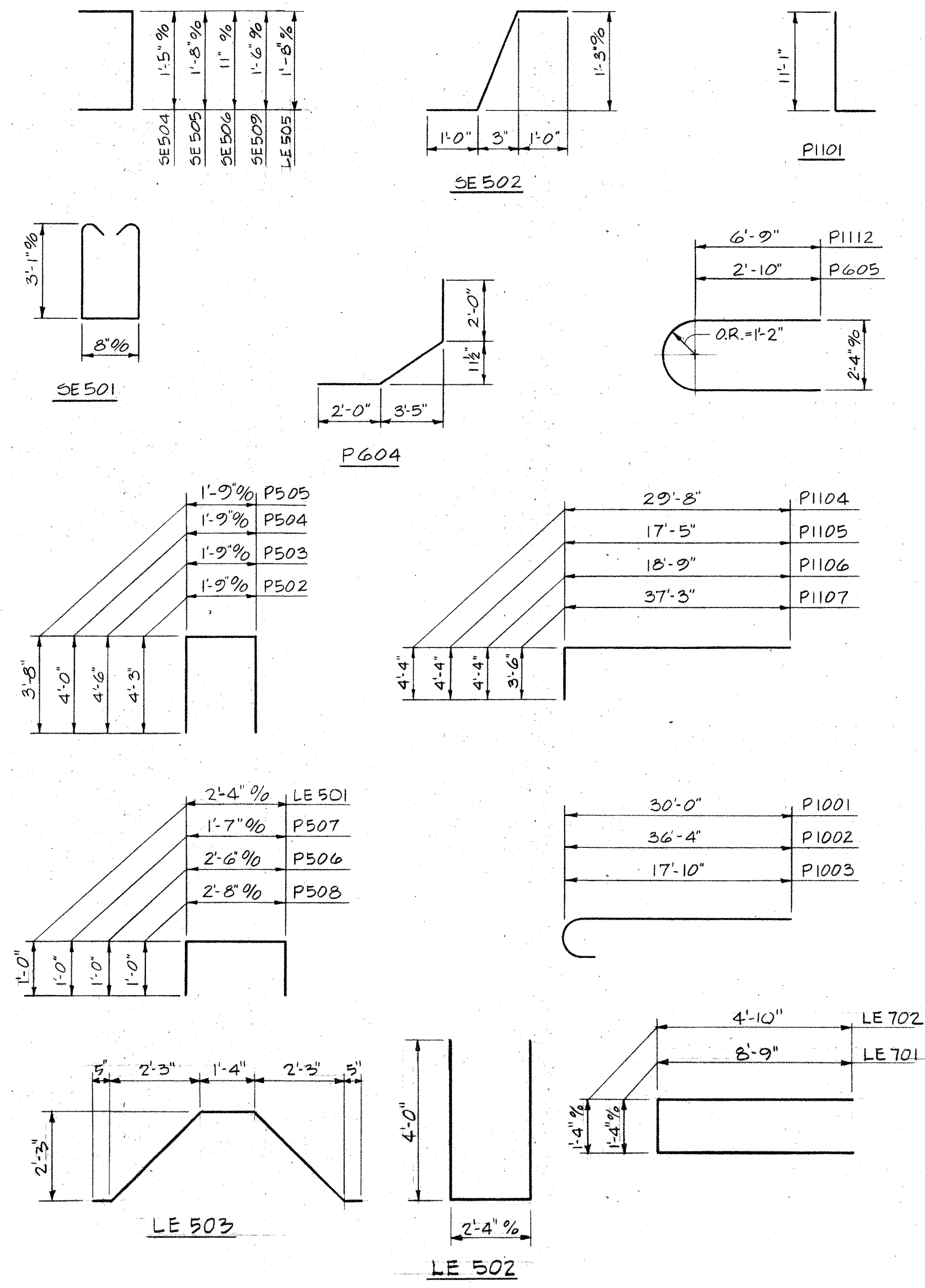
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|----------|--------|--------|---------|----------|--------|---------|
| DESIGNED | DRAWN | TRACED | CHECKED | REVIEWED | DATE | REVISED |
| R.E.T. | R.E.T. | R.E.T. | J.I.K. | JCO | 9-3-82 | |

DEC 28 1960

STEEL LIST

BENDING DIAGRAM

| MARK | NO. | LENGTH | WEIGHT | SHP. | LT. | RT. |
|----------------|-----|---------|--------|------|-----|-----|
| SUPERSTRUCTURE | | | | | | |
| SE601 | 379 | 39'-1" | 22,249 | S | 379 | — |
| SE602 | 379 | 38'-1" | 21,679 | S | — | 379 |
| SE501 | 480 | 7'-5" | 3,713 | B | 240 | 240 |
| SE502 | 380 | 3'-0" | 1,189 | B | 190 | 190 |
| SE503 | 379 | 13'-11" | 5,501 | S | — | 379 |
| SE504 | 190 | 2'-11" | 578 | B | — | 190 |
| SE505 | 380 | 3'-2" | 1,255 | B | — | 380 |
| SE506 | 760 | 2'-5" | 1,916 | B | 380 | 380 |
| SE507 | 380 | 7'-1" | 2,807 | S | 190 | 190 |
| SE508 | 190 | 5'-8" | 1,123 | S | 190 | — |
| SE509 | 190 | 3'-0" | 595 | B | 190 | — |
| SE510 | 196 | 30'-0" | 6,133 | S | 77 | 119 |
| SE511 | 28 | 23'-0" | 672 | S | 11 | 17 |
| SE512 | 96 | 6'-6" | 651 | S | 48 | 48 |
| SE513 | 120 | 13'-6" | 1,690 | S | 60 | 60 |
| SE514 | 24 | 12'-2" | 305 | S | 12 | 12 |
| SE401 | 749 | 30'-0" | 15,010 | S | 378 | 371 |
| SE402 | 107 | 20'-6" | 1,465 | S | 54 | 53 |
| SE403 | 133 | 30'-0" | 2,665 | S | 62 | 71 |
| SE404 | 133 | 26'-4" | 2,340 | S | 62 | 71 |
| SE501 | 679 | 30'-0" | 21,246 | S | 280 | 399 |
| SE502 | 97 | 23'-0" | 2,327 | S | 40 | 57 |
| SE503 | 379 | 39'-1" | 15,450 | S | 379 | — |
| SE504 | 379 | 38'-1" | 15,054 | S | — | 379 |
| SE505 | 379 | 13'-11" | 5,501 | S | — | 379 |
| SE506 | 380 | 3'-2" | 1,255 | S | — | 380 |
| LIGHTING | | | | | | |
| LE 701 | 2 | 18'-6" | 76 | B | — | 2 |
| LE 702 | 1 | 10'-8" | 22 | B | — | 1 |
| LE 501 | 4 | 4'-1" | 17 | B | — | 4 |
| LE 502 | 4 | 10'-1" | 42 | B | — | 4 |
| LE 503 | 7 | 8'-4" | 61 | B | — | 7 |
| LE 504 | 4 | 4'-0" | 17 | S | — | 4 |
| LE 505 | 2 | 3'-2" | 7 | B | — | 2 |



| MARK | NO. | LENGTH | WEIGHT | SHP. | LT. | RT. |
|--------|-----|---------|--------|------|-----|-----|
| PIER | | | | | | |
| P1101 | 96 | 12'-9" | 6,503 | B | 48 | 48 |
| P1102 | 48 | 20'-0" | 5,100 | S | 48 | — |
| P1103 | 48 | 19'-11" | 5,079 | S | — | 48 |
| P1104 | 6 | 33'-8" | 1,073 | B | 6 | — |
| P1105 | 6 | 21'-5" | 683 | B | 6 | — |
| P1106 | 6 | 22'-9" | 725 | B | — | 6 |
| P1107 | 6 | 40'-5" | 1,288 | B | — | 6 |
| P1108 | 8 | 43'-2" | 1,835 | S | — | 8 |
| P1109 | 4 | 37'-5" | 795 | S | 4 | — |
| P1110 | 2 | 37'-9" | 401 | S | 2 | — |
| P1111 | 2 | 37'-11" | 403 | S | 2 | — |
| P1112 | 1 | 17'-0" | 90 | B | 1 | — |
| P1001 | 6 | 31'-5" | 811 | B | 6 | — |
| P1002 | 6 | 37'-9" | 975 | B | — | 6 |
| P1003 | 6 | 19'-3" | 497 | B | — | 6 |
| P901 | 150 | 10'-0" | 5,100 | S | 60 | 90 |
| P801 | 30 | 9'-0" | 721 | S | 30 | — |
| P601 | 6 | 36'-9" | 331 | S | 6 | — |
| P602 | 6 | 19'-9" | 178 | S | — | 6 |
| P603 | 6 | 30'-0" | 270 | S | — | 6 |
| P604 | 4 | 7'-5" | 45 | B | — | 4 |
| P605 | 3 | 9'-3" | 42 | B | 3 | — |
| P501 | 16 | 9'-0" | 150 | S | 16 | — |
| P502 | 216 | 10'-0" | 2,253 | B | 216 | — |
| P503 | 260 | 10'-6" | 2,847 | B | — | 260 |
| P504 | 28 | 9'-6" | 277 | B | — | 28 |
| P505 | 8 | 8'-0" | 74 | B | — | 8 |
| P506 | 1 | 4'-3" | 4 | B | 1 | — |
| P507 | 1 | 3'-4" | 3 | B | 1 | — |
| P508 | 53 | 4'-5" | 244 | B | 25 | 28 |
| LE 702 | | 4'-10" | | | | |
| LE 701 | | 8'-9" | | | | |
| LE 503 | | 2'-3" | | | | |
| LE 502 | | 4'-0" | | | | |

| | | |
|-------------------|-------|---------|
| FED. RD. DIVISION | STATE | PROJECT |
| 2 | OHIO | |

MOT-BIGGER RD.

123
136

SPIRAL REINFORCING LIST

| MARK | NO. | CORE DIA. | LENGTH | PITCH | NO. OF TURNS | WEIGHT | LT. PIER | RT. PIER |
|-------|-----|-----------|------------|--------|--------------|--------|----------|----------|
| SP401 | 3 | 32" | 15'-9 1/2" | 3 1/2" | 57 | 1,097 | 3 | — |
| SP402 | 3 | 32" | 15'-5 1/2" | 3 1/2" | 56 | 1,075 | — | 3 |

SPIRAL REINFORCING BARS

THE "LENGTH" SHOWN IN THE STEEL LIST FOR THE SPIRAL BARS IS THE DISTANCE FROM THE TOP OF THE FOOTING TO THE LEVEL OF THE LOWEST HORIZONTAL REINFORCEMENT IN THE PIER CAP.

THE "NUMBER OF TURNS" SHOWN IN THE STEEL LIST FOR THE SPIRAL BARS IS THE "LENGTH" DIVIDED BY THE PITCH PLUS 3 TURNS (TOTAL NUMBER OF CLOSED COILS) EXPRESSED AS THE NEAREST WHOLE NUMBER.

1 1/2 CLOSED COILS SHALL BE PROVIDED AT THE ENDS OF EACH SPIRAL UNIT.

FOUR STEEL ANGLES HAVING A MINIMUM SECTION MODULUS OF .030 IN.³ AND WEIGHING APPROX. 0.80 LB. PER LIN. FT. OF SPACER SHALL BE PROVIDED FOR EACH SPIRAL UNIT. THEY SHALL BE EQUALLY SPACED ALONG THE PERIPHERY OF THE COIL. THE NUMBER OF POUNDS OF THESE SPACERS, BASED ON 0.80 LB. PER LIN. FT. WILL BE PAID FOR AS REINFORCING STEEL AND IS INCLUDED IN THE TABULATED QUANTITY OF SPIRAL BARS.

NOTES

REINFORCING STEEL SAMPLES; REFER TO CMS SECTIONS 106.03, 700, 709.01 THROUGH 709.05 AND 709.08. SUFFICIENT ADDITIONAL REINFORCING STEEL SHALL BE PROVIDED FOR SAMPLING. RANDOM SAMPLES SHALL BE REPLACED IN THE STRUCTURES BY THE ADDITIONAL STEEL, SPLICED IN ACCORDANCE WITH 509.08.

EPOXY COATED BARS ARE INDICATED BY THE PREFIX "SE" OR "LE"

15/15

A. M. KINNEY, INC.
CINCINNATI, OHIO

REINFORCING STEEL LIST

BRIDGE NO. MOT-675-0600
PROPOSED I-675 UNDER
BIGGER ROAD

MONTGOMERY CO. STA. 359+45.02

| | | | | | | |
|----------|--------|--------|---------|----------|--------|---------|
| DESIGNED | DRAWN | TRACED | CHECKED | REVIEWED | DATE | REVISED |
| R.E.T. | R.E.T. | R.E.T. | J.I.K. | J.C.O. | 9-3-82 | |