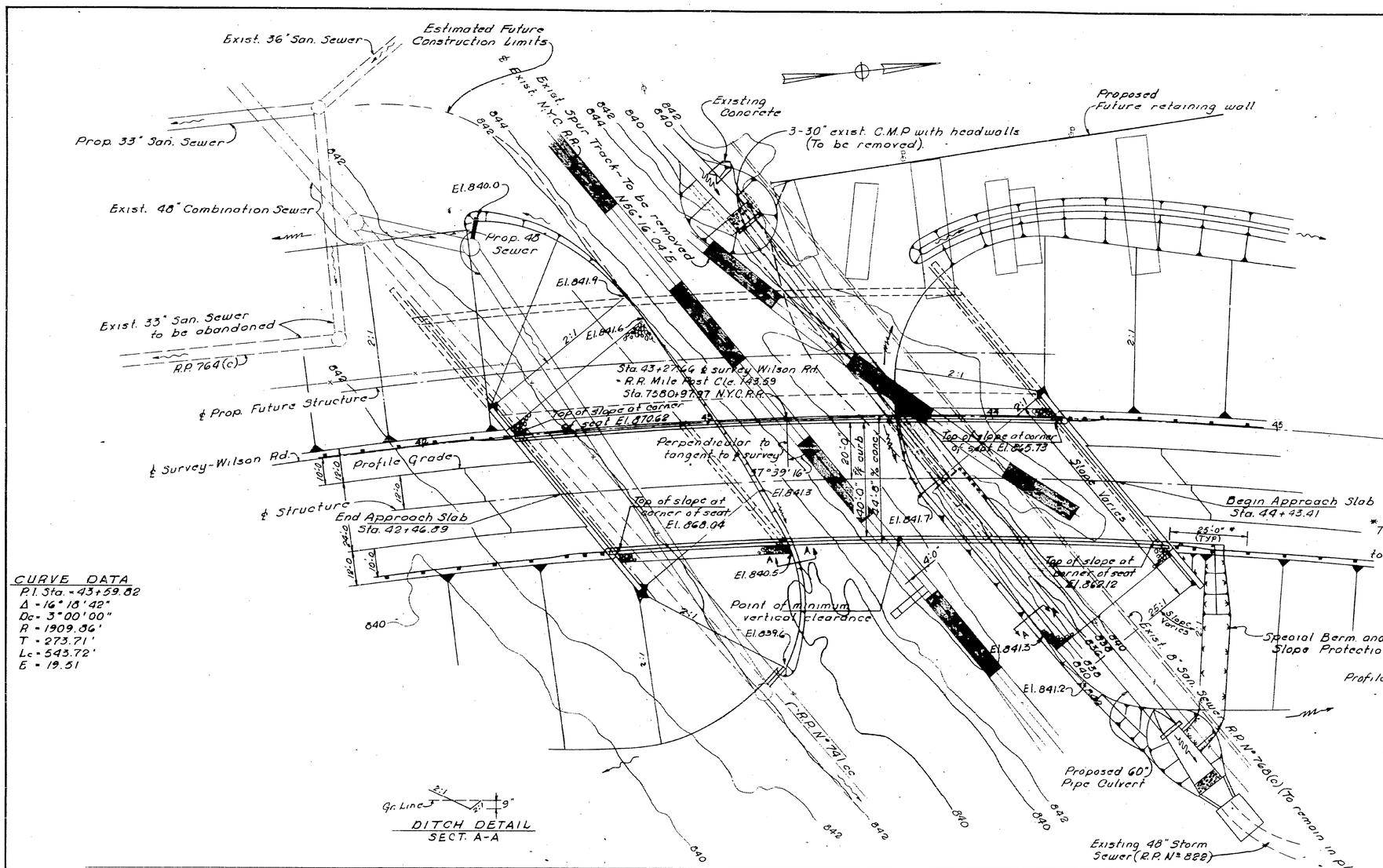
| FED. RD. DIVISION | STATE | PROJECT | TYPE FUNDS |
|---|---|---|---|
| 2 | OHIO | | |

37/47

FRANKLIN COUNTY
C.R. 25 WILSON RD.



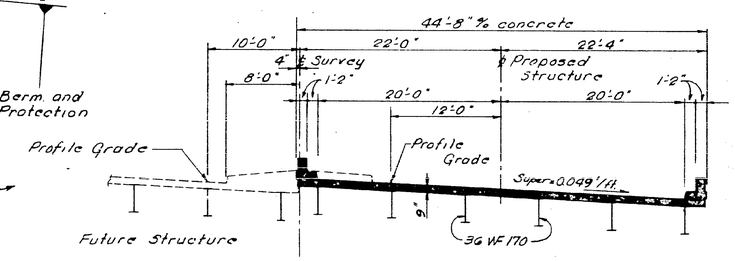

## PROPOSED BRIDGE DATA

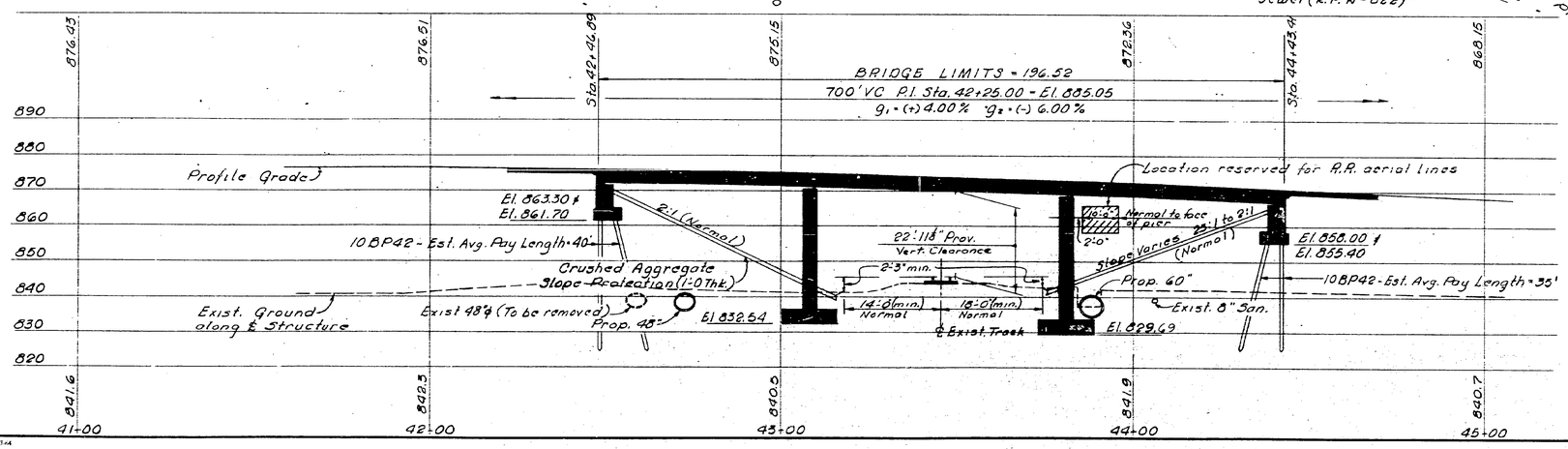
TYPE: Continuous Steel Beam Bridge w/ Concrete Deck & Substructure
SPANS: 58'-0", 72'-6", 58'-0"
ROADWAY: 42'-4" ft of Parapets
LOAD FREQUENCY: C.F. 2000 (57)
SKEW: 37° 39' 16" R.F.
WEARING SURFACE: 1" Monolithic
APPROACH SLABS: AS-1-54 (25' lg)
RAILING: Bridge Railing, Type 1
SUPERELEVATION: 0.049 ft/ft
ALIGNMENT: 3° 00' 00" Simple Curve

1982 A.D.T. = 6,300

## CURVE DATA

P.I. Sta. = 43+59.82
Δ = 16° 18' 42"
Dc = 3° 00' 00"
R = 1909.86'
T = 273.71'
Lc = 543.72'
E = 19.51




BENCH MARK
Spike in pole, S.E. corner of garage, 198' lt. Sta. 42+55
El. 844.02

BENCH MARK
Chiseled "a" on S.W. corner of conc. manhole cover, 214' rt. Sta. 44+23
El. 842.08

BARRETT ASSOCIATED ENGINEERS, LIMITED
1500 W. FIRST AVE. COLUMBUS 12, OHIO

SITE PLAN
WILSON RD OVER N.Y.C.R.R.
Franklin County
Sta. 42+46.89 to Sta. 44+43.41

| DESIGNED | DRAWN | TRACED | CHECKED | REVIEWED | DATE | REVISED |
|---|---|---|---|---|---|---|
| D.L.M. | K.J.B. | | D.L.M. | | | |

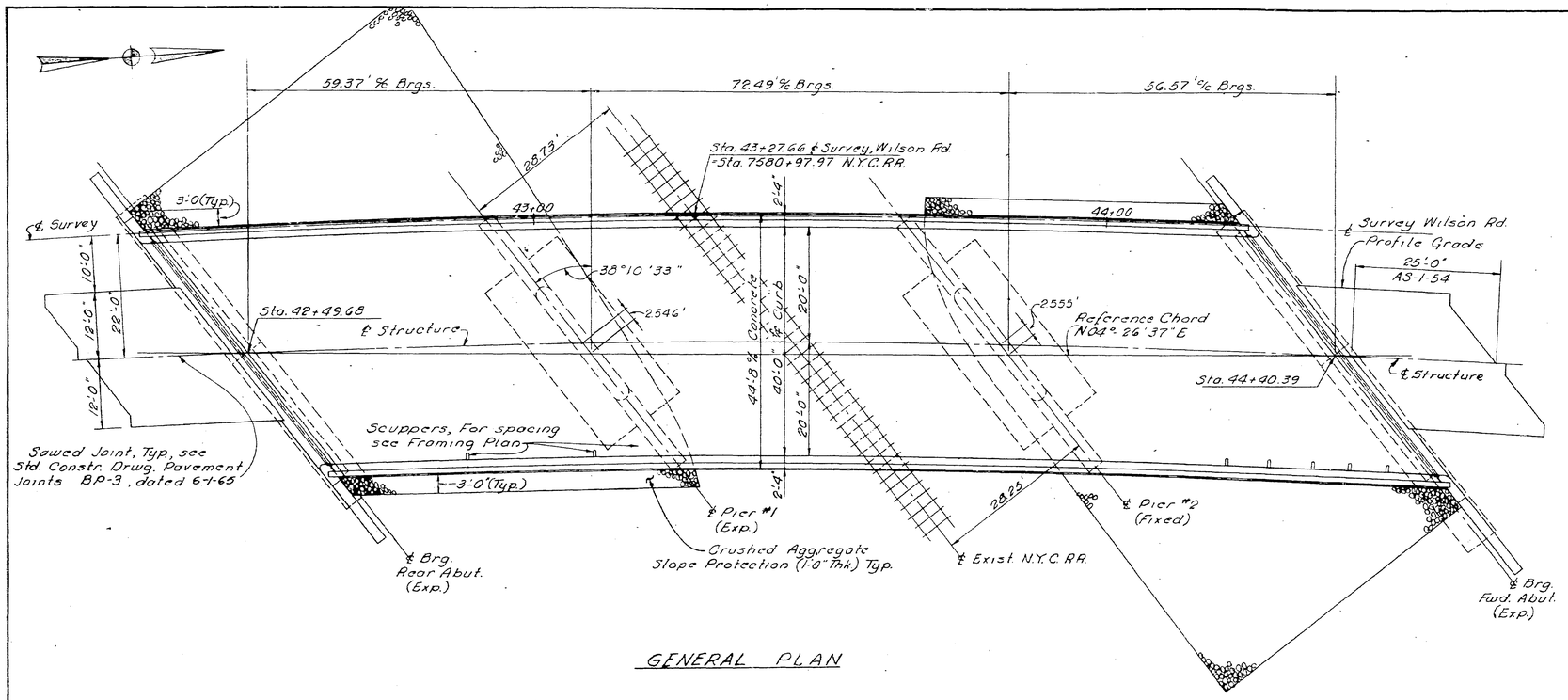
Fr 25-0.63
3-3-2
Wilson Rd.

5080 010 SITE PLAN 0063 1968 0010 060

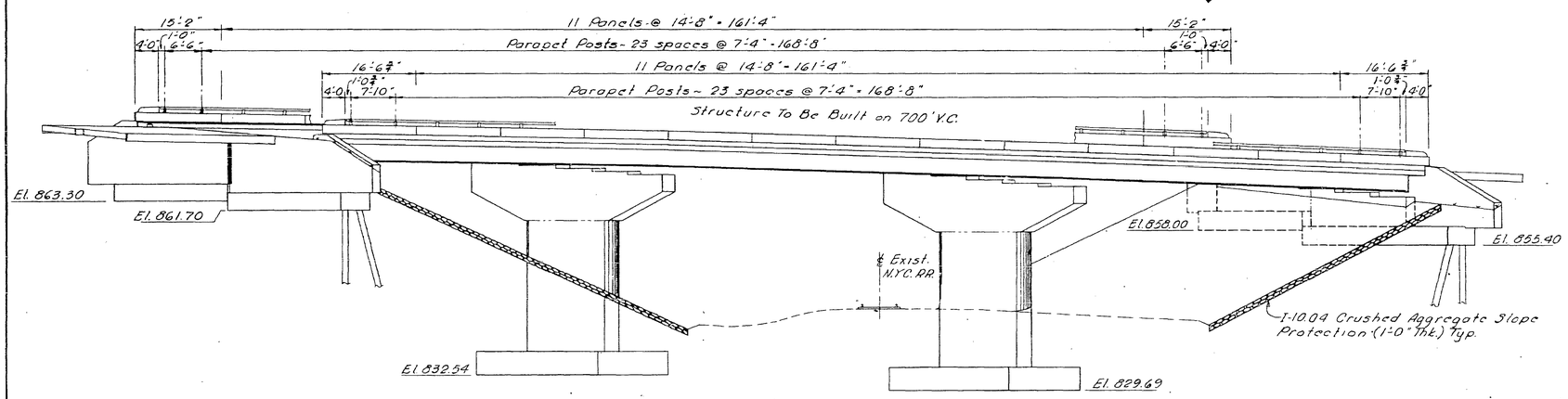
| FED. RD. DIVISION | STATE | PROJECT | TYPE FUNDS |
|---|---|---|---|
| 2 | OHIO | | |

38/47

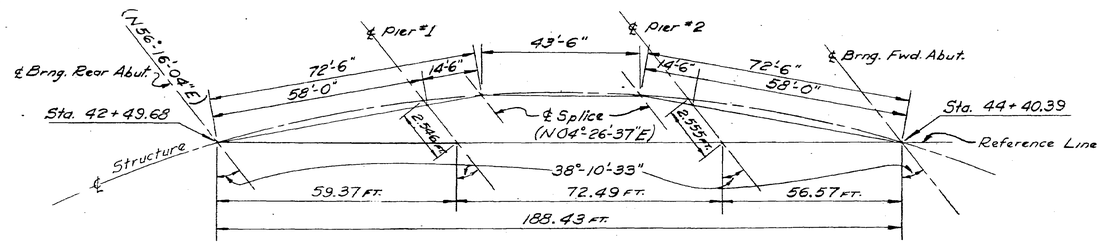
FRANKLIN COUNTY
C.R. 25 WILSON RD.




GENERAL PLAN




ELEVATION




LAYOUT DIAGRAM

## GENERAL NOTES

DESIGN LOADING - CF 2000 (57)

CONCRETE CLASS C - BASIC UNIT STRESS 1,333 P.S.I.
CONCRETE CLASS E - BASIC UNIT STRESS 1,133 P.S.I.
STRUCTURAL STEEL - A.S.T.M. A36 - BASIC UNIT STRESS, 20,000 P.S.I. (A.S.T.M. A7 AND A373 STEEL NOT PERMITTED).
REINFORCING STEEL - A.S.T.M. A15, A16, A160, A408, DEFORMED, INTERMEDIATE OR HARD GRADE, BASIC UNIT STRESS 20,000 P.S.I.
HIGH STRENGTH BOLTS - A.S.T.M. A325
SHEAR 13,500 P.S.I.
BEARING 40,000 P.S.I.

REFERENCE SHALL BE MADE TO STANDARD DRAWINGS AS-1-54, REVISED 7-5-62; BR-1-65, SHEET NO. 1, DATED 2-1-65; RB-1-55, REVISED 2-2-59; SD-1-63, SHEETS 2, 3, AND 4 DATED 11-12-63; AND SD-2-64 DATED 11-25-64, AND SUPPLEMENTAL SPECIFICATION 808 DATED 7-15-65.

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO THE REQUIREMENTS OF "DESIGN SPECIFICATIONS FOR HIGHWAY STRUCTURES" OF THE STATE OF OHIO, DEPARTMENT OF HIGHWAYS, DATED 9-1-57, TOGETHER WITH CURRENT REVISIONS THEREOF.

EXCAVATION QUANTITY INCLUDES THE REMOVAL OF FILL MATERIAL REQUIRED FOR CONSTRUCTION OF THE ABUTMENTS AND PIERS.

FOUNDATION BEARING PRESSURE: PIER FOOTINGS ARE DESIGNED FOR A MAXIMUM BEARING PRESSURE OF 2.5 TONS PER SQ. FT. AT PIER NO. 1 AND 3.0 TONS PER SQ. FT. AT PIER NO. 2.

CONSTRUCTION CLEARANCE OF 20 FT. VERTICALLY ABOVE THE TOP OF THE RAILROAD RAILS AND 8 FT. HORIZONTALLY FROM THE CENTER OF TRACKS SHALL BE MAINTAINED AT ALL TIMES.

ALIGNING RAILROAD TRACKS: AFTER THE CONTRACTOR HAS COMPLETED ALL EXCAVATION AND BACK-FILL ADJACENT TO THE RAILROAD TRACKS IN COMPLIANCE WITH SEC. 503.04 AND 503.09 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, SUBJECT TO THE SUPERVISION OF THE RAILROAD COMPANY, NOTHING IN SEC. 503.04, 503.09 OR 108.04 OF THE SPECIFICATIONS SHALL BE CONSTRUED TO HOLD THE CONTRACTOR LIABLE FOR ALIGNING AND RESURFACING THE RAILROAD TRACKS.

SHEETING AND BRACING: BEFORE CONSTRUCTION IS STARTED, EIGHT SETS OF PRINTS SHOWING DETAILS OF THE SHEETING AND BRACING TO BE USED FOR EXCAVATION ADJACENT TO THE RAILROAD TRACKS, SHALL BE SUBMITTED TO THE DIRECTOR FOR APPROVAL BY THE DEPARTMENT OF HIGHWAYS AND BY THE RAILROAD COMPANY.

MACHINE FINISH: AT THE CONTRACTOR'S OPTION, THE CONCRETE DECK MAY BE FINISHED BY THE USE OF A FINISHING MACHINE.

RAILROAD AERIAL LINES WILL BE RELOCATED BY THE RAILROAD. THE CONTRACTOR SHALL USE ALL PRECUATIONS NECESSARY TO SEE THAT THE LINES ARE NOT DISTURBED DURING THE CONSTRUCTION STAGE AND SHALL COOPERATE WITH THE RAILROAD IN THE RELOCATION OF THESE LINES. THE COST OF THE RELOCATION SHALL BE INCLUDED IN THE RAILROAD FORCE ACCOUNT WORK.

PILES SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 35 TONS.

BOLTED SPLICE FABRICATION: THE WEB SPLICE PLATES SHALL BE BENT TO CONFORM TO THE ANGLE INDICATED ON THE SPLICE DETAIL. RE-ENTRANT CUTS ON THE FLANGE SPLICE PLATES WILL NOT BE PERMITTED.

PROTECTIVE COATING FOR PORTLAND CEMENT CONCRETE: TWO COATS OF A PROTECTIVE COATING SHALL BE APPLIED TO THE CONCRETE DECK, THE CURBS, THE ROADWAY SIDE AND THE TOP OF THE PARAPET WALL AND ABUTMENT BACKWALLS AND BRIDGE SEATS. THE FIRST COAT SHALL CONSIST OF ONE PART BOILED LINSEED OIL TO ONE PART THINNER WHICH MAY BE TURPENTINE OR MINERAL SPIRITS. THE SECOND COAT SHALL BE TWO PARTS LINSEED OIL TO ONE PART THINNER. THE BOILED LINSEED OIL SHALL CONFORM TO SEC. 708.02, TURPENTINE SHALL CONFORM TO SEC. 708.03 AND MINERAL SPIRITS SHALL CONFORM TO SEC. 708.04, OF THE STATE OF OHIO, DEPARTMENT OF HIGHWAYS, "CONSTRUCTION AND MATERIAL SPECIFICATIONS". THE APPLICATIONS SHALL BE BY HAND BRUSHING OR PRESSURE SPRAYING TO INSURE COMPLETE AND UNIFORM COVERAGE. THE RATE OF APPLICATION OF THE FIRST COAT SHALL NOT BE MORE THAN 50 SQUARE YARDS PER GALLON OF SOLUTION. THE AREA SHALL BE CLEAN AND DRY BEFORE APPLICATION IS BEGUN AND SHALL NOT BE SPRAYED UNLESS THE CONCRETE AND SURROUNDING AIR TEMPERATURE IS AT LEAST 50° F. THE SECOND COAT SHALL BE APPLIED AFTER THE FIRST COAT HAS BEEN ABSORBED AS INDICATED BY THE AREA REGAINING ITS ORIGINAL DRY APPEARANCE. APPLICATION RATE FOR THE SECOND COAT SHALL NOT BE MORE THAN 70 SQUARE YARDS PER GALLON. DURING THE PROGRESS OF THIS WORK, NO SMOKING BY WORKMEN WILL BE PERMITTED AND ALL FIRES AND OTHER SOURCES OF IGNITION SHALL BE PROHIBITED DUE TO THE HIGHLY FLAMMABLE NATURE OF THE OIL MIXTURE.

THE UNIT BID PRICE PER SQUARE YARD FOR ITEM SPECIAL, PROTECTIVE COATING FOR PORTLAND CEMENT CONCRETE SHALL INCLUDE THE FURNISHING OF ALL MATERIALS, LABOR AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM.

BARRETT ASSOCIATED ENGINEERS, LIMITED
1500 W. FIRST AVE. COLUMBUS 12, OHIO

GENERAL PLAN AND
GENERAL NOTES
WILSON RD. OVER N.Y.C.RR.
FRANKLIN COUNTY
Sta. 42+46.89 to Sta. 44+43.41

| DESIGNED | DRAWN | TRACED | CHECKED | REVIEWED | DATE | REVISED |
|---|---|---|---|---|---|---|
| D.L.M. | K.J.B. | | HM | | | |

5080 010 GEN. PLAN ELEV. & NOTES 0063 1968 0020 060

| REG. NO. DIVISION | STATE | PROJECT | SHEET NUMBER |
|---|---|---|---|
| 2 | OHIO | | 39 / 47 |

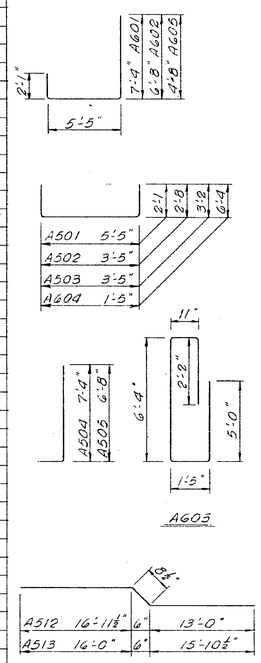
FRANKLIN COUNTY
C.R. 25 WILSON RD.

# REINFORCING STEEL LIST

## REAR ABUTMENT

| Mark | No | Length | Shpe | Weight |
|---|---|---|---|---|
| A801 | 7 | 31'-8" | Str. | 592 |
| A802 | 7 | 31'-11" | " | 597 |
| A601 | 20 | 14'-6" | Bt. | 436 |
| A602 | 20 | 13'-10" | " | 416 |
| A603 | 33 | 15'-2" | " | 683 |
| A604 | 24 | 13'-9" | " | 496 |
| A605 | 8 | 11'-10" | " | 142 |
| A501 | 48 | 9'-4" | Bt. | 467 |
| A502 | 20 | 8'-6" | " | 177 |
| A503 | 20 | 9'-6" | " | 198 |
| A504 | 20 | 7'-10" | " | 163 |
| A505 | 20 | 7'-2" | " | 150 |
| A506 | 18 | 26'-8" | Str. | 501 |
| A507 | 6 | 14'-7" | " | 91 |
| A508 | 2 | 39'-8" | " | 83 |
| A509 | 2 | 37'-6" | " | 78 |
| A510 | 2 | 33'-11" | " | 71 |
| A511 | 1 | 30'-6" | " | 32 |
| A512 | 1 | 30'-8" | Bt. | 32 |
| A513 | 1 | 32'-7" | " | 34 |
| A514 | 1 | 32'-5" | Str. | 34 |
| A515 | 2 | 35'-3" | " | 74 |
| A516 | 2 | 38'-3" | " | 80 |
| A517 | 2 | 39'-11" | " | 83 |
| A518 | 6 | 14'-10" | " | 93 |
| A519 | 2 SETS OF 9 | Incre. of 7 3/8" | | |
| from 4'-11" | | to 9'-10" | Str. | 138 |
| A520 | 6 | 10'-8" | " | 67 |
| A521 | 2 SETS OF 6 | Incre. of 8" | | |
| from 7'-3" | | to 10'-7" | Str. | 112 |

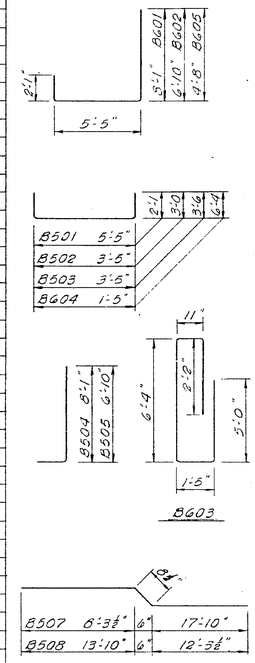
Bending Diagrams




## FORWARD ABUTMENT

| Mark | No | Length | Shpe | Weight |
|---|---|---|---|---|
| B601 | 7 | 29'-3" | Str. | 547 |
| B602 | 7 | 41'-1" | " | 768 |
| B601 | 21 | 15'-3" | Bt. | 481 |
| B602 | 20 | 14'-0" | " | 421 |
| B603 | 33 | 15'-2" | " | 752 |
| B604 | 21 | 13'-9" | " | 434 |
| B605 | 13 | 11'-10" | " | 231 |
| B501 | 54 | 9'-4" | Bt. | 526 |
| B502 | 21 | 9'-2" | " | 201 |
| B503 | 20 | 10'-2" | " | 212 |
| B504 | 21 | 8'-7" | " | 188 |
| B505 | 20 | 7'-4" | " | 153 |
| B506 | 36 | 26'-8" | Str. | 1001 |
| B507 | 1 | 26'-10" | Bt. | 28 |
| B508 | 1 | 26'-10" | " | 28 |
| B509 | 10 | 12'-2" | Str. | 127 |
| B510 | 2 | 10'-7" | " | 22 |
| B511 | 2 | 8'-2" | " | 17 |
| B512 | 2 | 5'-7" | " | 12 |
| B513 | 6 | 24'-0" | " | 150 |
| B514 | 2 | 23'-1" | " | 48 |
| B515 | 2 | 20'-3" | " | 42 |
| B516 | 2 | 16'-4" | " | 34 |
| B517 | 2 | 12'-5" | " | 26 |
| B518 | 2 SETS OF 5 | Incre. of 8 3/4" | | |
| from 7'-11" | | to 10'-10" | Str. | 98 |
| B519 | 4 | 11'-4" | " | 47 |
| B520 | 8 | 10'-4" | " | 86 |
| B521 | 2 | 9'-7" | " | 20 |
| B522 | 2 SETS OF 10 | Incre. of 7" | | |
| from 4'-6" | | to 9'-9" | Str. | 159 |

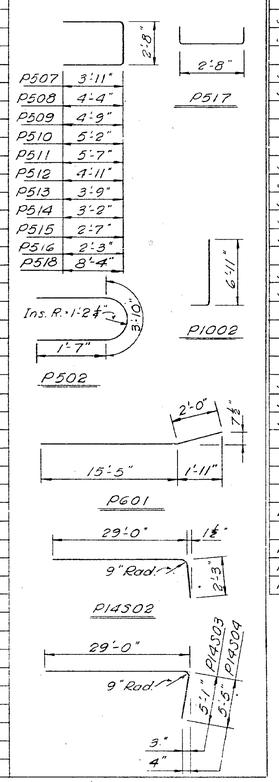
Bending Diagrams




## PIERS #1 & #2

| Mark | No | Length | Shpe | Weight |
|---|---|---|---|---|
| P14S01 | 32 | 29'-0" | Str. | 7,099 |
| P14S02 | 4 | 30'-9" | Bt. | 941 |
| P14S03 | 2 | 33'-7" | " | 514 |
| P14S04 | 2 | 33'-11" | " | 519 |
| P1001 | 92 | 15'-8" | Str. | 6202 |
| P1002 | 160 | 8'-0" | Bt. | 5508 |
| P1003 | 80 | 10'-3" | Str. | 3528 |
| P1004 | 40 | 26'-0" | " | 4475 |
| P1005 | 40 | 26'-11" | " | 4633 |
| P901 | 28 | 33'-8" | Str. | 2518 |
| P902 | 40 | 9'-2" | " | 1247 |
| P601 | 8 | 17'-5" | Bt. | 209 |
| P501 | 48 | 21'-0" | Str. | 1051 |
| P502 | 48 | 7'-0" | Bt. | 350 |
| P503 | 4 | 23'-8" | Str. | 99 |
| P504 | 8 | 19'-5" | " | 162 |
| P505 | 8 | 25'-5" | " | 212 |
| P506 | 16 | 27'-8" | " | 462 |
| P507 | 8 | 10'-3" | Bt. | 86 |
| P508 | 16 | 11'-1" | " | 185 |
| P509 | 8 | 11'-11" | " | 99 |
| P510 | 8 | 12'-9" | " | 106 |
| P511 | 8 | 13'-7" | " | 113 |
| P512 | 8 | 12'-3" | " | 102 |
| P513 | 8 | 9'-11" | " | 83 |
| P514 | 8 | 8'-9" | " | 73 |
| P515 | 8 | 7'-7" | " | 63 |
| P516 | 8 | 6'-11" | " | 58 |
| P517 | 72 | 3'-8" | " | 275 |
| P518 | 38 | 19'-1" | Bt. | 756 |

Bending Diagrams



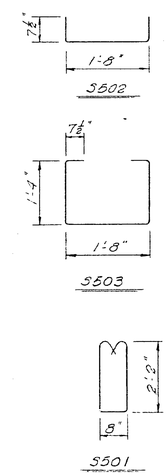

## SUPERSTRUCTURE

| Mark | No | Length | Shpe | Weight |
|---|---|---|---|---|
| S701 | 220 | 44'-0" | Str. | 19786 |
| S702 | 1 SET OF 38 | Incre. of 1'-0" | | |
| from 43'-2" | | to 6'-2" | Str. | 1916 |
| S703 | 12 | 6'-0" | " | 147 |
| S704 | 1 SET OF 46 | Incre. of Approx. 9 3/4" | | |
| from 43'-4" | | to 6'-7" | Str. | 2347 |
| S601 | 220 | 44'-0" | Str. | 14539 |
| S602 | 332 | 38'-0" | " | 18949 |
| S603 | 83 | 45'-5" | " | 5662 |
| S604 | 68 | 29'-0" | " | 2962 |
| S605 | 1 SET OF 38 | Incre. of 1'-0" | | |
| from 43'-2" | | to 6'-2" | Str. | 1408 |
| S606 | 12 | 6'-0" | " | 108 |
| S607 | 1 SET OF 46 | Incre. of Approx. 9 3/4" | | |
| from 43'-4" | | to 6'-7" | Str. | 1724 |
| S501 | 284 | 5'-7" | Bt. | 1654 |
| S502 | 254 | 2'-8" | " | 706 |
| S503 | 254 | 5'-1" | " | 1347 |

## RAILING

| Mark | No | Length | Shpe | Weight |
|---|---|---|---|---|
| R501 | 8 | 14'-10" | Str. | — |
| R502 | 88 | 14'-4" | " | — |
| R507 | 8 | 16'-2" | " | — |

Bending Diagrams




NOTE: FOR ADDITIONAL REINFORCING IN RAILING END POSTS SEE STD. DWG. BR-1-65.

BAR SIZE IS INDICATED IN THE BAR MARK. THE FIRST DIGIT WHERE THREE DIGITS ARE USED AND THE FIRST TWO DIGITS WHERE FOUR DIGITS ARE USED INDICATE THE BAR SIZE NUMBER. FOR EXAMPLE A801 IS A NO. 8 SIZE BAR AND P1001 IS A NO. 10 SIZE BAR.

REINFORCING BARS NO. 14.S SHALL BE OF INTERMEDIATE OR HARD GRADE CONFORMING TO ASTM A-408.

RAILING BARS, R501, R502 and R507 ARE INCLUDED WITH RAILING FOR PAYMENT.

## ESTIMATED QUANTITIES (1965 SPECIFICATIONS)

| ITEM | QUANT. | UNIT | DESCRIPTION | ABUTS. | PIERS | SUPER. | GEN. |
|---|---|---|---|---|---|---|---|
| 503 | Lump Sum | L.S. | Cofferdams, Cribs and Sheeting | | | | Lump Sum |
| 503 | 959 | Cu.Yds. | Unclassified Excavation | 344 | 615 | | |
| 511 | 266 | Cu.Yds. | Class "C" Concrete, Superstructure | | | 266 | |
| 511 | 219 | Cu.Yds. | Class "C" Concrete, Piers above footings | | 219 | | |
| 511 | 261 | Cu.Yds. | Class "E" Concrete, Footings | 100 | 161 | | |
| 511 | 145 | Cu.Yds. | Class "E" Concrete, Abutments above footings | 145 | | | |
| 512 | 20 | Lin.Ft. | Waterproofing, Premolded Sealing Strip | 20 | | | |
| 509 | 127,962 | Lbs. | Reinforcing Steel | 12,979 | 41,728 | 73,255 | |
| 513 | 244,781 | Lbs. | Structural Steel | | | 244,781 | |
| 514 | 244,781 | Lbs. | Field Painting of Structural Steel | | | 244,781 | |
| 517 | 386.12 | Lin.Ft. | Bridge Railing, Type 1 | | | 386.12 | |
| 505 | Lump Sum | L.S. | First Test Pile | | | | Lump Sum |
| 507 | 1,300 | Lin.Ft. | Steel Piles, 10BP42 | 1,300 | | | |
| 518 | 7 | Each | Scuppers, including supports | | | 7 | |
| 518 | 82 | Lin.Ft. | 6"ϕ Helical CMP, 707.06, Non-perforated | 82 | | | |
| 518 | 108 | Lin.Ft. | 6"ϕ Perforated Helical CMP, 707.06, incl. specials | 108 | | | |
| 518 | 94 | Cu.Yds. | Porous Backfill | 94 | | | |
| 808 | 266 | Each | Water-reducing, Set-retarding Admixture | | | 266 | |
| 601 | 1,050 | Sq.Yds. | Crushed Aggregate Slope Protection (1'-0" Thick) | | | | 1,050 |
| Special | 1,130 | Sq.Yds. | Protective Coating for Portland Cement Concrete | | | | 1,130 |

## REPLACEMENT BARS

| Mark | No. | Length | Shape |
|---|---|---|---|
| RE14S01 | 1 | 8'-3" | Str. |
| RE1001 | 2 | 7'-2" | Str. |
| RE901 | 1 | 6'-10" | Str. |
| RE801 | 1 | 6'-6" | Str. |
| RE701 | 2 | 6'-2" | Str. |
| RE601 | 3 | 5'-11" | Str. |
| RE501 | 1 | 5'-7" | Str. |

BARRETT ASSOCIATED ENGINEERS, LIMITED
1500 W. FIRST AVE. COLUMBUS 12, OHIO

ESTIMATED QUANTITIES & REINFORCING STEEL LIST
WILSON RD. OVER N.Y.C. RR.
FRANKLIN COUNTY
Sta. 42+46.89 to Sta. 44+43.41

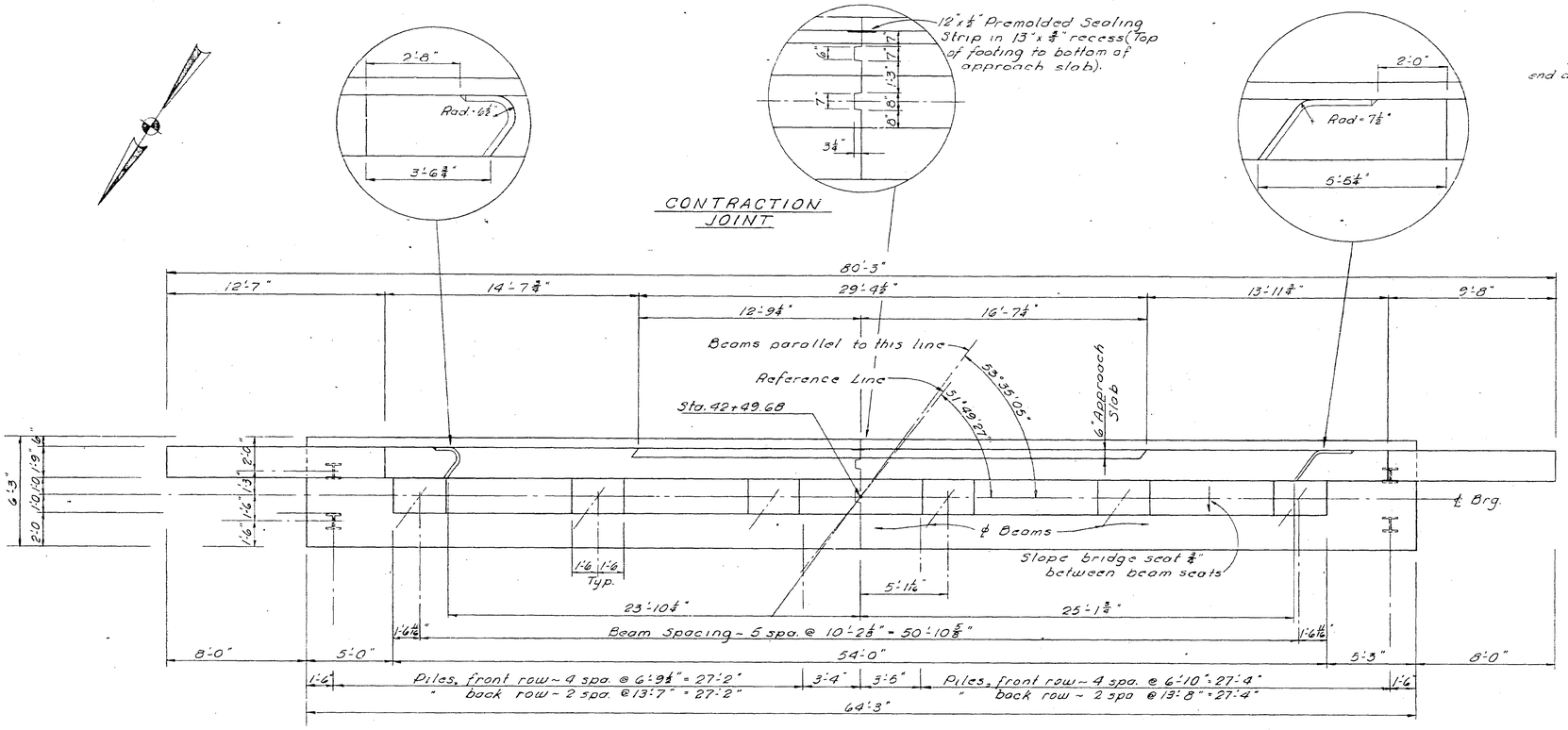
| DESIGNED | DRAWN | TRACED | CHECKED | RECOMMENDED | DATE | APPROVED |
|---|---|---|---|---|---|---|
| | K.J.B. | | D.L.M. | | | |

5080 010 EST. QUANT. & STEEL LIST 00063 1968 0030 060

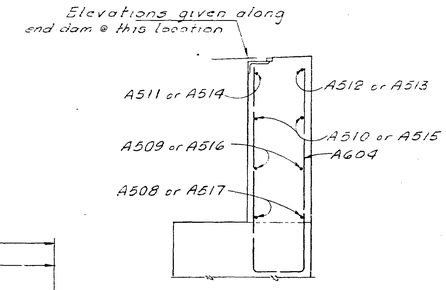
| FED. RD. DIVISION | STATE | PROJECT | FUNDS |
|---|---|---|---|
| 2 | OHIO | | |

40/47

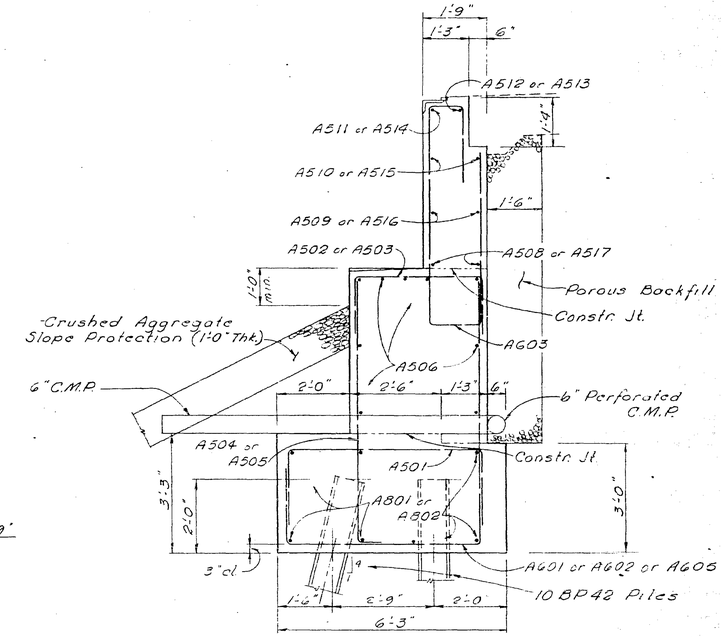
FRANKLIN COUNTY
C.R. 25 WILSON RD.



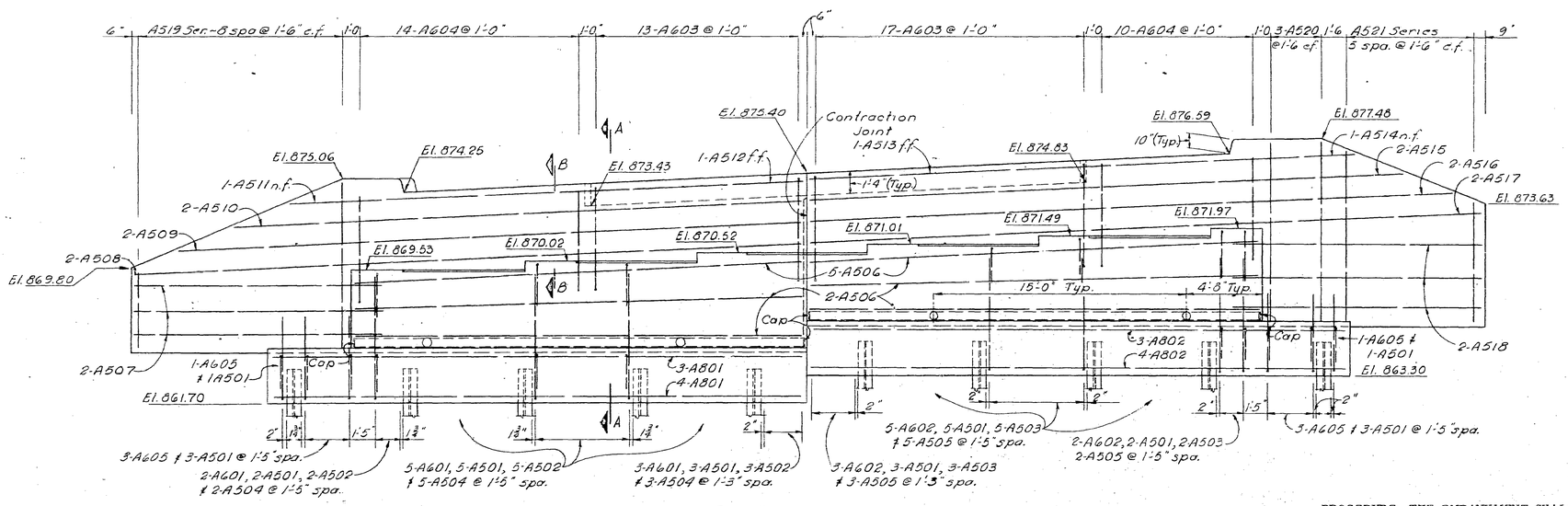

PLAN




SECTION B-B




SECTION A-A




ELEVATION

NOTES

(n. f.) Denotes, "near face"
(f. f.) Denotes, "for face"
(e. f.) Denotes, "each face"

POROUS BACKFILL 1'-6" THICK SHALL EXTEND FROM THE TOP OF THE FOOTINGS UPWARD TO THE UNDERSIDE OF THE APPROACH SLAB AND TO THE EARTH SHOULDERS, AND OUTWARD TO THE SURFACE OF THE EMBANKMENT SLOPES. EXCAVATION THEREFOR, IN EXCESS OF THAT REQUIRED FOR CONSTRUCTION OF THE ABUTMENT SHALL BE CONSIDERED AS PAID FOR IN THE BID PRICE PER CU. YD. PAID FOR POROUS BACKFILL.

PROCEDURE: THE EMBANKMENT SHALL BE PLACED AND COMPACTED UP TO THE FINISHED SPILL-THRU SLOPE AND TO THE LEVEL OF THE SUBGRADE FOR A DISTANCE OF 200 FEET BACK OF THE ABUTMENTS, AFTER WHICH EXCAVATION SHALL BE MADE FOR THE ABUTMENTS AND THE PIERS.

BARRETT ASSOCIATED ENGINEERS, LIMITED
1500 W. FIRST AVE. COLUMBUS 12, OHIO

REAR ABUTMENT DETAILS
WILSON RD. OVER N.Y.C.R.R.
FRANKLIN COUNTY
Sta. 42+46.89 to Sta. 44+43.41

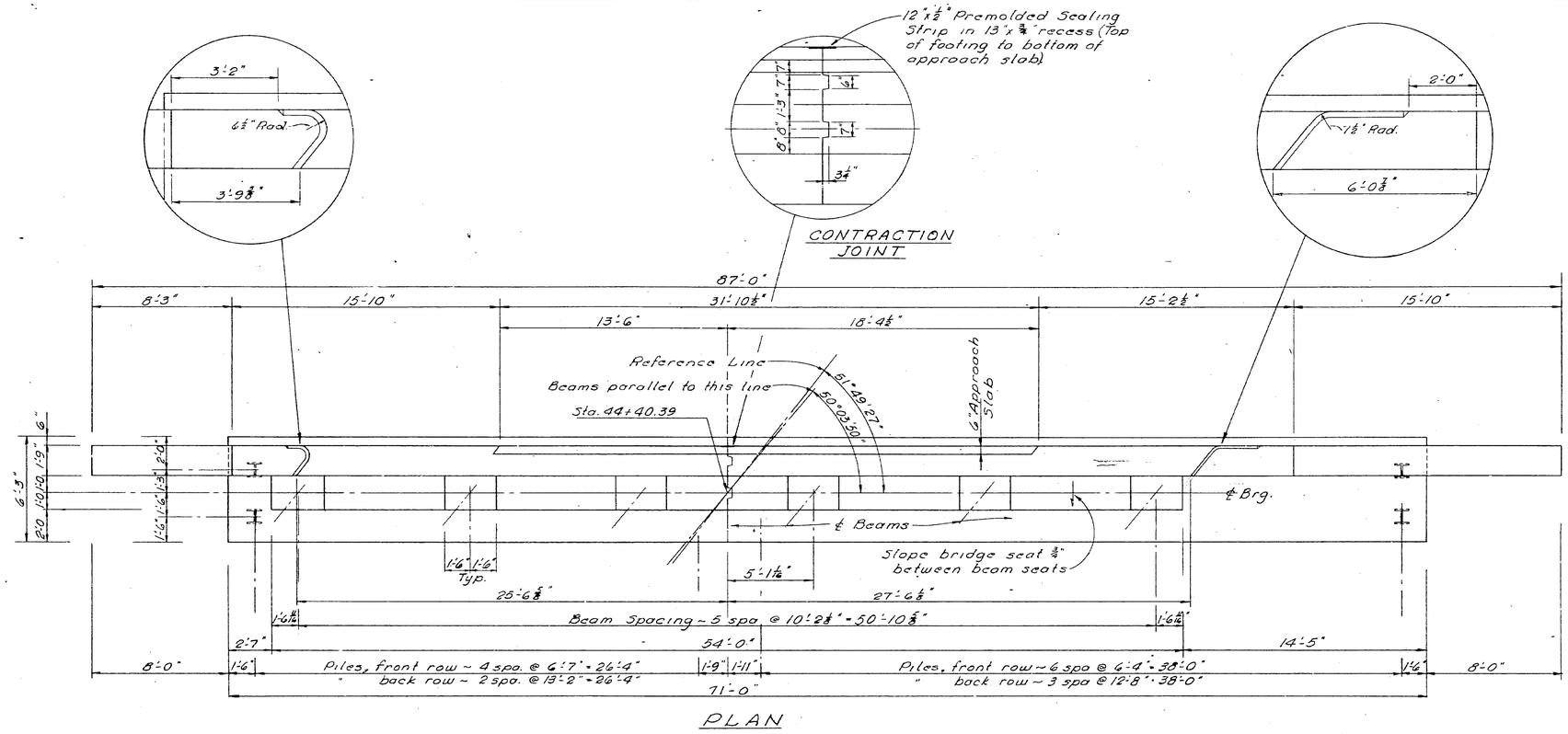
| DESIGNED | DRAWN | TRACED | CHECKED | REVIEWED | DATE | REVISED |
|---|---|---|---|---|---|---|
| HM | KJB | - | HM | | | |

5080 010 REAR ABUTMENT DETAILS 0063 1968 0040 060

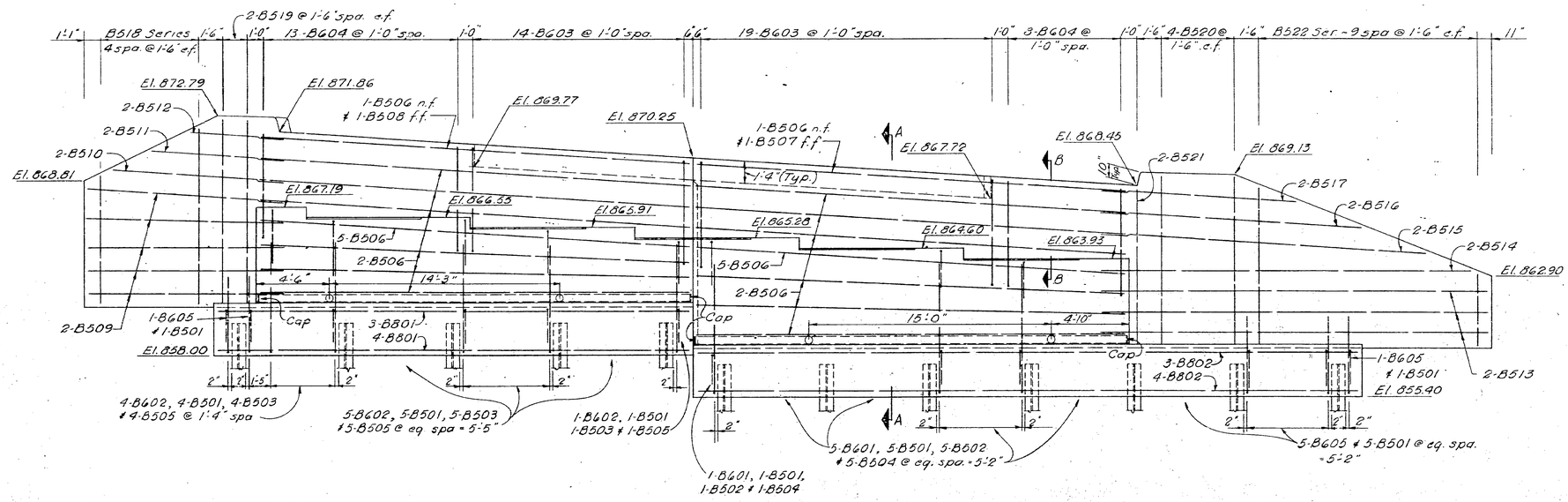
| FED. RD. DIVISION | STATE | PROJECT | TYPE FUNDS |
|---|---|---|---|
| 2 | OHIO | | |

41/47

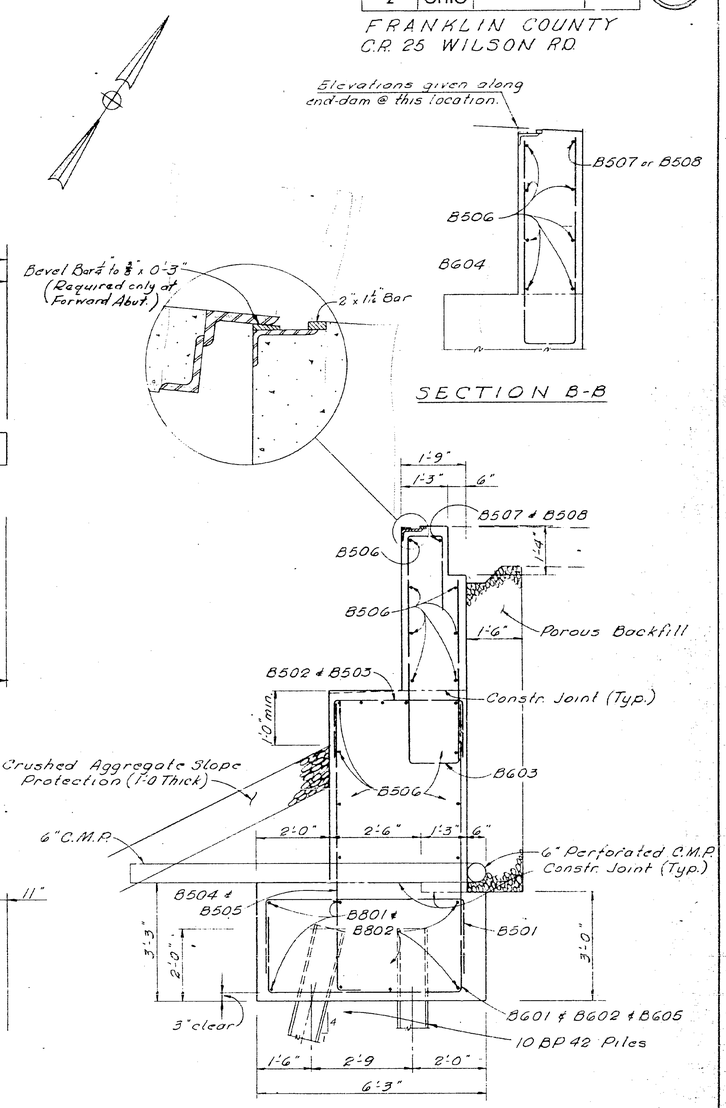
FRANKLIN COUNTY
C.R. 25 WILSON RD.




PLAN




ELEVATION




For "Notes" see Rear Abutment Dwg.

BARRETT ASSOCIATED ENGINEERS, LIMITED
1500 W. FIRST AVE. COLUMBUS 12, OHIO

FORWARD ABUTMENT DETAILS
WILSON RD. OVER N.Y.C. R.R.
FRANKLIN COUNTY
Sta. 42+46.89 to Sta. 44+43.41

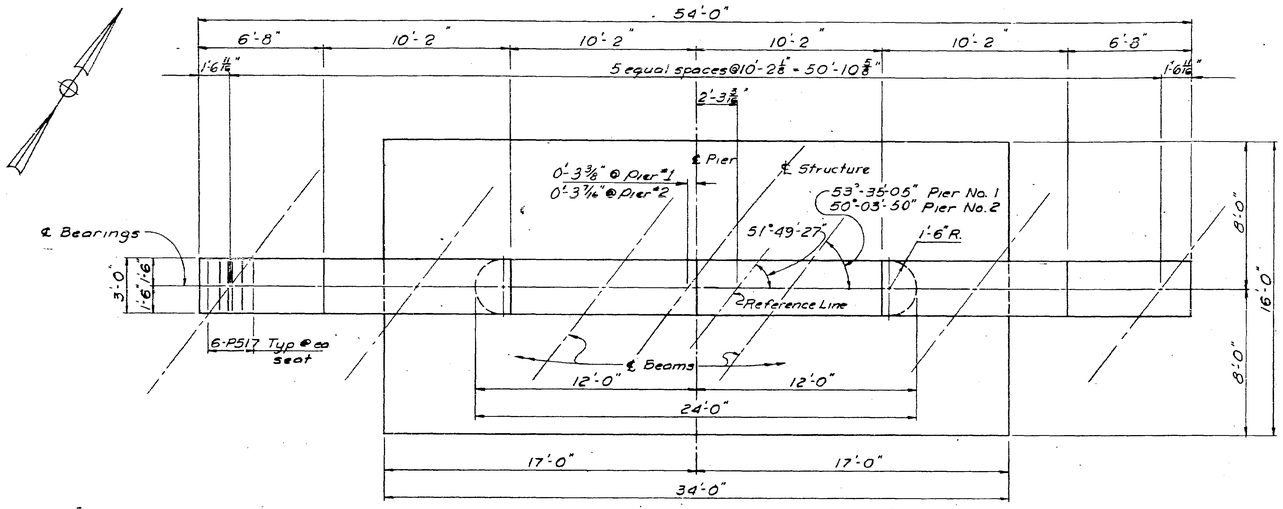
| DESIGNED | DRAWN | TRACED | CHECKED | REVIEWED | DATE | REVISED |
|---|---|---|---|---|---|---|
| HM | KJB | | HM | | | |

5060 010 FORWARD ABUTMENT DETAILS 0063 1968 0050 060

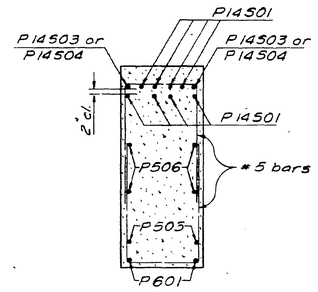
| FED. RD. DIVISION | STATE | PROJECT | TYPE FUNDS |
|---|---|---|---|
| 2 | OHIO | | |

42/47

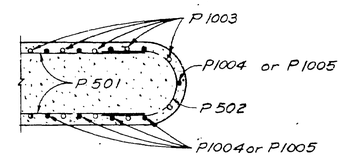
FRANKLIN COUNTY
C.R. 25 WILSON RD.



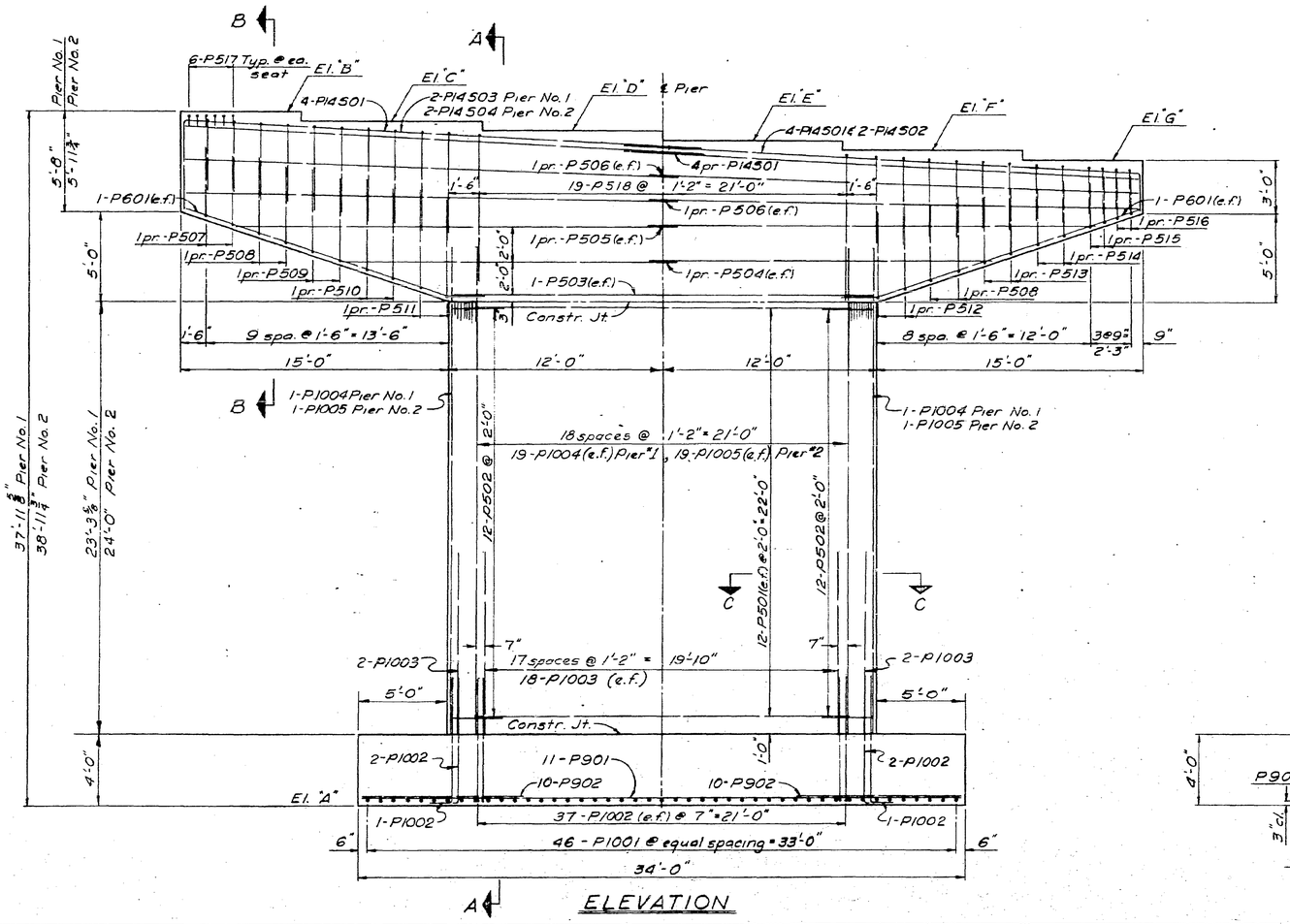

PLAN



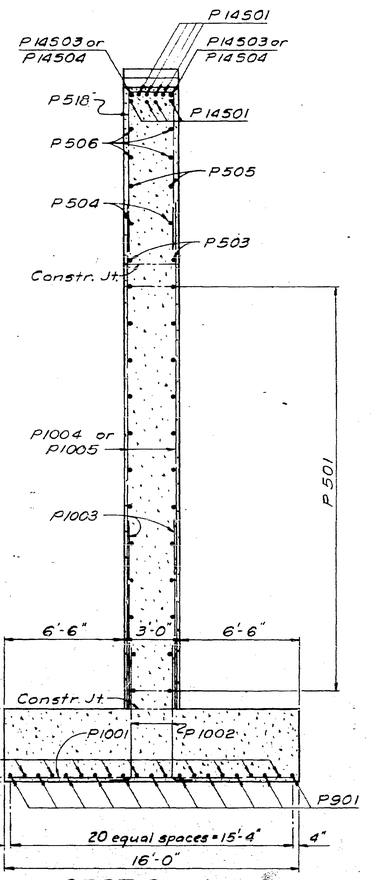

SECTION B-B




SECTION C-C




ELEVATION




SECTION A-A

| TABLE OF ELEVATIONS | | | | | | | |
|---|---|---|---|---|---|---|---|
| Location | El. "A" | El. "B" | El. "C" | El. "D" | El. "E" | El. "F" | El. "G" |
| Pier No. 1 | 832.54 | 870.51 | 869.98 | 869.46 | 868.92 | 868.35 | 867.84 |
| Pier No. 2 | 829.69 | 868.67 | 868.09 | 867.50 | 866.90 | 866.29 | 865.69 |

## NOTES

(e.f.) denotes each face

BRIDGE SEAT REINFORCING: Special care shall be taken in placing steel in the vicinity of the bridge seat so as to avoid interference with the drilling of anchor bolt holes in Pier No. 2.

BARRETT ASSOCIATED ENGINEERS, LIMITED
1500 W. FIRST AVE. COLUMBUS 12, OHIO

PIER DETAILS
WILSON RD. OVER N.Y.C. RR.
FRANKLIN COUNTY
Sta. 42+46.89 to Sta. 44+43.41

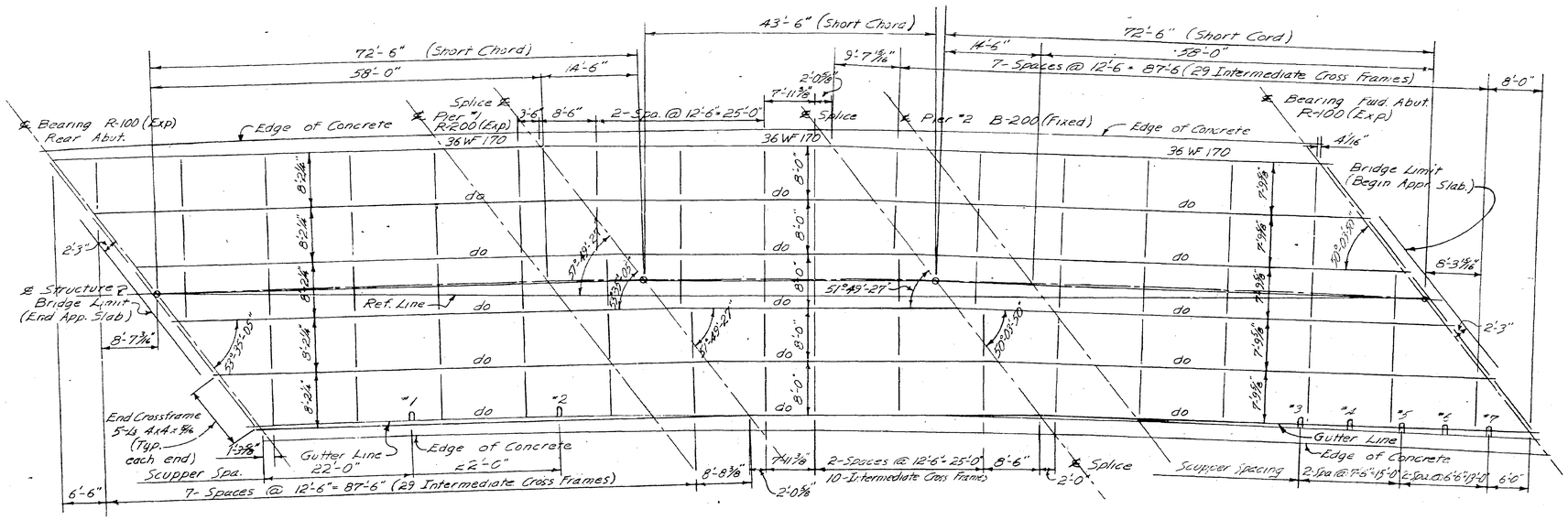
| DESIGNED | DRAWN | TRACED | CHECKED | REVIEWED | DATE | REVISED |
|---|---|---|---|---|---|---|
| DM | WL | | HM | | | |

5080 010 PIER DETAILS 0063 1968 0060 060

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

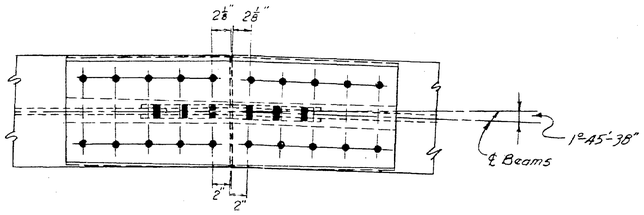
43/47

FRANKLIN COUNTY
C.R. 25 WILSON RD.



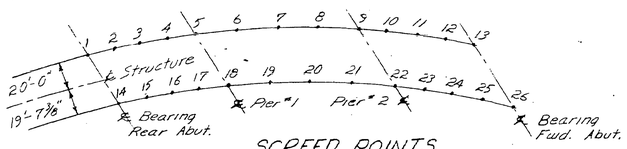

## FRAMING PLAN

| SCUPPER DIMENSIONS | | |
|---|---|---|
| Scupper Number | Dimension "A" | Dimension "B" |
| 1 | 9 1/8" | — |
| 2 | 3 7/16" | — |
| 3 | — | 2 3/16" |
| 4 | — | 4 3/16" |
| 5 | — | 5 3/8" |
| 6 | — | 6 7/8" |
| 7 | — | 8 3/16" |




## FLANGE SPLICE DETAIL

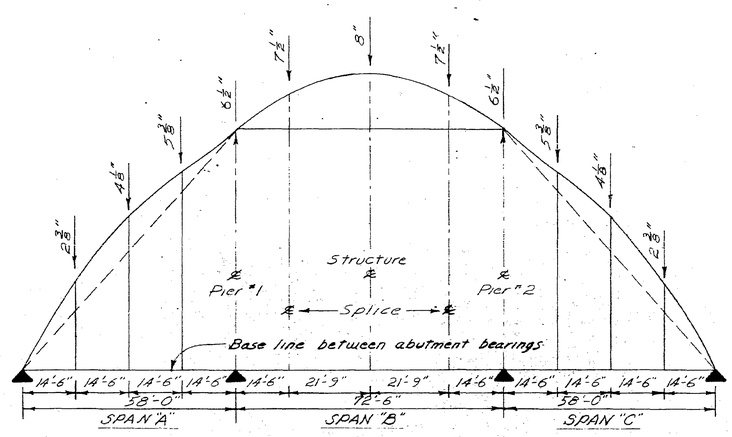
For Additional Splice Details See Std. Dwg. SD-2-64



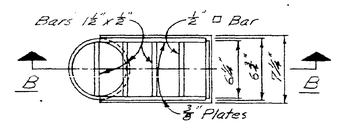

## SCREED POINTS

| QUARTER POINT SCREED ELEVATIONS | | | |
|---|---|---|---|
| 1 | 876.58 | 14 | 874.25 |
| 2 | 876.42 | 15 | 874.03 |
| 3 | 876.22 | 16 | 873.75 |
| 4 | 875.96 | 17 | 873.43 |
| 5 | 875.68 | 18 | 873.08 |
| 6 | 875.32 | 19 | 872.62 |
| 7 | 874.91 | 20 | 872.12 |
| 8 | 874.42 | 21 | 871.53 |
| 9 | 873.89 | 22 | 870.88 |
| 10 | 873.45 | 23 | 870.36 |
| 11 | 872.98 | 24 | 869.81 |
| 12 | 872.47 | 25 | 869.20 |
| 13 | 871.91 | 26 | 868.55 |

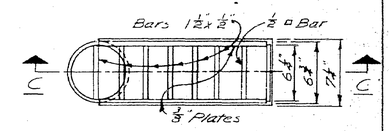
| DEFLECTION & CAMBER | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| LOCATION | SPAN "A" | | | SPAN "B" | | | SPAN "C" | | |
| | 1/4 Pt. | 1/2 Pt. | 3/4 Pt. | Spl. Pt. | 1/2 Pt. | Spl. Pt. | 3/4 Pt. | 1/2 Pt. | 1/4 Pt. |
| Deflection due to weight of Steel | 1/16" | 1/16" | 1/32" | 1/32" | 1/16" | 1/32" | 1/32" | 1/16" | 1/16" |
| Deflection due to remaining dead load | 1/4" | 9/32" | 1/8" | 7/32" | 3/8" | 7/32" | 1/8" | 9/32" | 1/4" |
| Adjustment required for vertical curve | 17/32" | 23/32" | 17/32" | 23/32" | 1 1/8" | 23/32" | 17/32" | 23/32" | 17/32" |
| Adj. required for sweep of beam & superelevation | (-) 1/8" | (-) 3/16" | (-) 3/16" | 0 | (-) 1/16" | 0 | (-) 3/16" | (-) 3/16" | (-) 1/8" |
| Required Shop Camber | 23/32" | 7/8" | 1/2" | 31/32" | 1 1/2" | 31/32" | 1/2" | 7/8" | 23/32" |



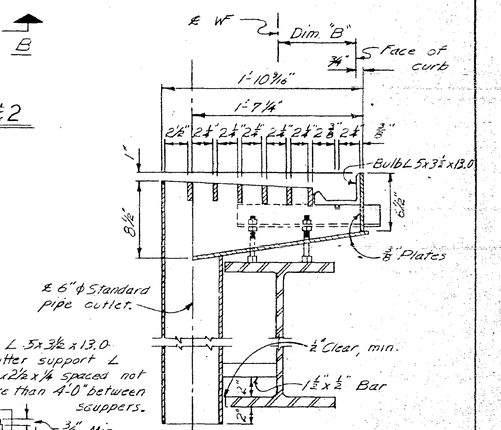

## CAMBER DIAGRAM



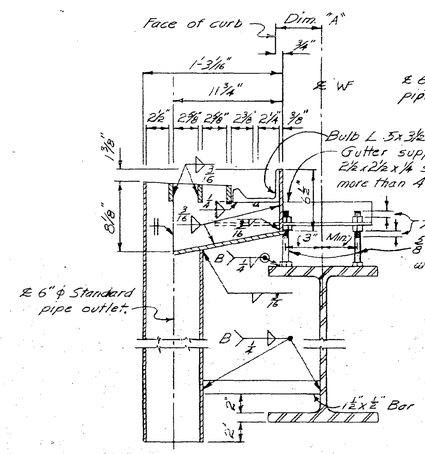

## PLAN — SCUPPERS 1 & 2




## PLAN — SCUPPERS 3,4,5,6, & 7




## SECTION C-C




## SECTION B-B

BARRETT ASSOCIATED ENGINEERS, LIMITED
1500 W. FIRST AVE. COLUMBUS 12, OHIO

SUPERSTRUCTURE DETAILS
WILSON RD. OVER N.Y.C. R.R.
FRANKLIN COUNTY
Sta. 42+46.89 To Sta. 44+43.41

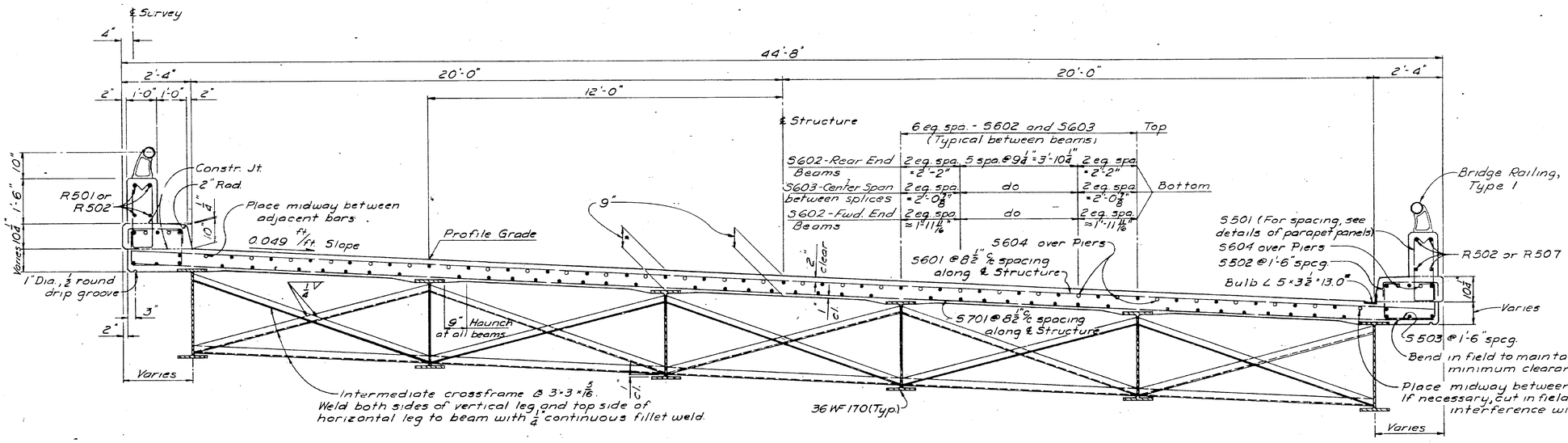
| DESIGNED | DRAWN | TRACED | CHECKED | REVIEWED | DATE | REVISED |
|---|---|---|---|---|---|---|
| D.L.M. | JTB | | HM | | | |

5080 0/0 SUPERSTRUCTURE DETAILS 0063 1968 0070 060

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

44/47

FRANKLIN COUNTY
C.R. 25 WILSON RD.




RADIAL SECTION

SLAB THICKNESS shown includes 1" for monolithic wearing surface.

DECK SLAB HAUNCH: The haunch in the superelevated deck slab adjacent to the top of steel beams, which is shown as 9" wide, may vary from this dimension between the limits of 6" and 12" on the low side and between 9" and 12" on the high side. Except on the high side, the maximum slope shall not exceed ⅔ inches per foot. Payment for deck slab concrete shall be based on the 9" width.

NOTE:
* This is a nominal dimension. The quantity of deck concrete to be paid for shall be based on this dimension, even though deviation from it may be necessary because the top flange of the beam may not have the exact camber or conformation required to place it parallel to the finished grade.

REINFORCING NOTE

All longitudinal bars are S602, S603 or S604 unless otherwise shown. Longitudinal bars between ⅞" curbs, except the S604 bar adjacent to each curb, run parallel to beams in each span. Remaining longitudinal bars run parallel to ℄ Structure.

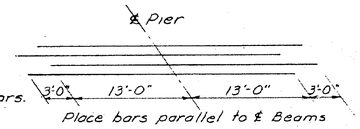
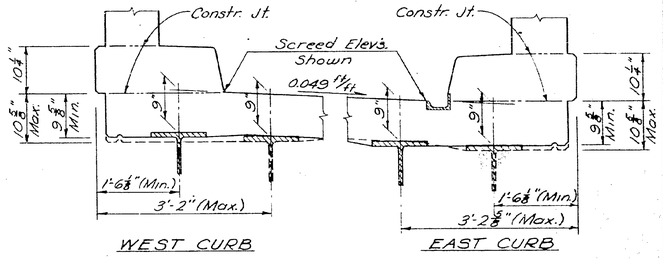
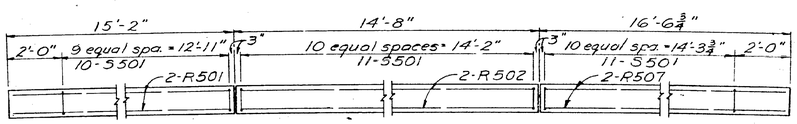



DIAGRAM SHOWING STAGGER OF S604 BARS OVER PIERS



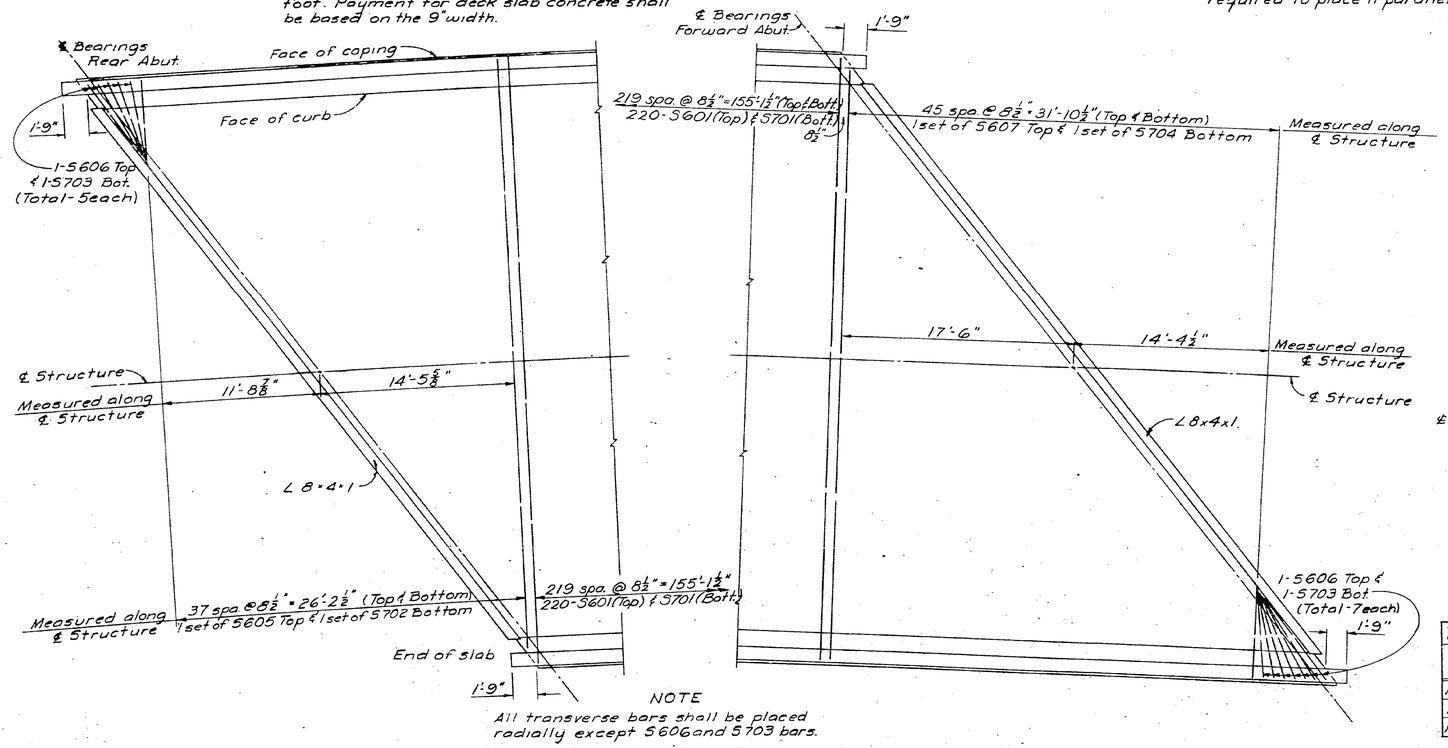

SECTION THRU CURBS




EXTERIOR PARAPET PANEL ~ WEST SIDE (2 Required)

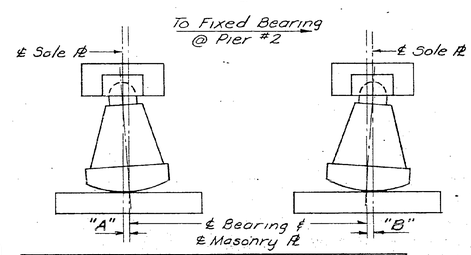
TYPICAL INTERIOR PARAPET PANEL (22 Required)

EXTERIOR PARAPET PANEL ~ EAST SIDE (2 Required)




NOTE
All transverse bars shall be placed radially except S606 and S703 bars.

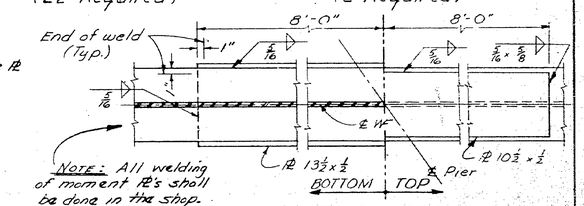
DETAIL OF TRANSVERSE DECK REINFORCING




| TABLE OF ROCKER ADJUSTMENTS | | | | | | | |
|---|---|---|---|---|---|---|---|
| Location | "B" | | | | "A" | | |
| | 0° | 20° | 40° | 60° | 80° | 100° | 120° |
| Rear Abutment | 9/16 | 3/8 | 3/16 | 0 | 3/16 | 3/8 | 9/16 |
| Pier #1 | 5/16 | 3/16 | 1/8 | 0 | 1/8 | 3/16 | 5/16 |
| Forward Abutment | 1/4 | 3/16 | 1/16 | 0 | 1/16 | 3/16 | 1/4 |

Dimension "A" & "B" to be measured parallel to ℄ beam.

NOTE: After the bolsters at Pier #2 have been placed, splices completed and anchor bolts placed, the rockers at Pier #1 and at the Abutments shall be adjusted by the amount shown in the Table according to the prevailing temperature at time of erection.




NOTE: All welding of moment Pl's shall be done in the shop.

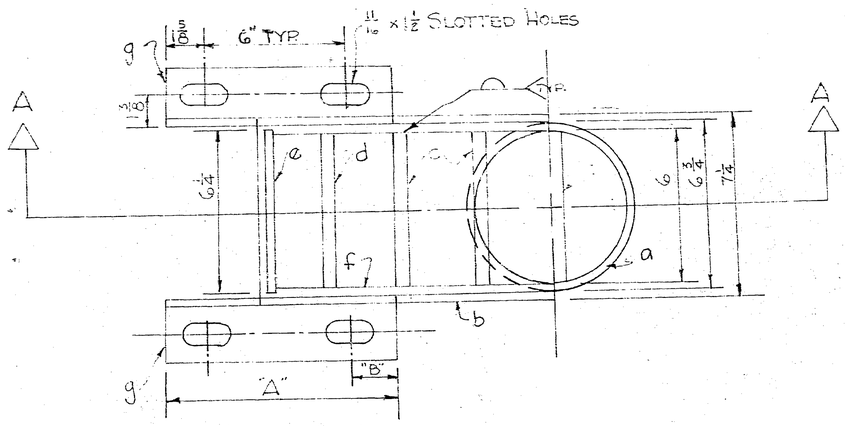
MOMENT PLATES

BARRETT ASSOCIATED ENGINEERS, LIMITED
1500 W. FIRST AVE. COLUMBUS 12, OHIO

SUPERSTRUCTURE DETAILS
WILSON RD OVER NYC RR.
FRANKLIN COUNTY
Sta. 42+46.89 to Sta. 44+43.41

| DESIGNED | DRAWN | TRACED | CHECKED | REVIEWED | DATE | REVISED |
|---|---|---|---|---|---|---|
| DM | WL | | HM | | | |

5080 010 SUPERSTRUCTURE DETAILS 0063 1968 0080 060

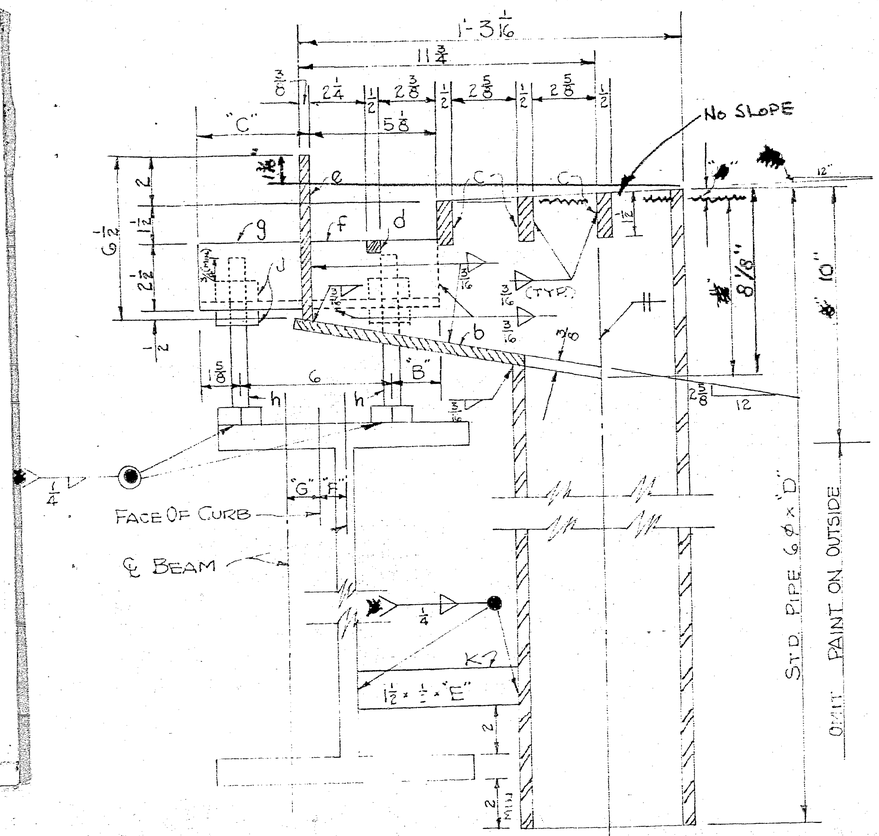



| ITEM | No. REQ'D | MATERIAL |
|---|---|---|
| a | 1 | 6" ϕ STANDARD BLACK IRON PIPE x "D" |
| b | 1 | HOT ROLLED STEEL 3/8 x 7 1/4 x 1'-0 1/4 |
| c | 3 | HOT ROLLED STEEL 1/2 x 1 1/2 x 6 |
| d | 1 | HOT ROLLED STEEL 1/2 x 1/2 x 6 |
| e | 1 | HOT ROLLED STEEL 3/8 x 6 1/4 x 6 3/16 |
| f | 2 | HOT ROLLED STEEL 3/8 x 7 3/4 x 11 3/8 |
| g | 2 | ANGLE IRON 2 1/2 x 2 1/2 x 1/4 x "A" |
| h | 4 | STANDARD BOLT 5/8 x 6" |
| J | 8 | 5/8-11 HEX NUT |
| K | 1 | HOT ROLLED STEEL 1/2 x 1 1/2 x "E" (SHIP LOOSE FIT IN FIELD) |

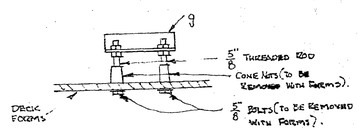
NOTE: ALL STEEL SHALL MEET REQUIREMENTS OF ASTM A-36
PIPE SHALL MEET REQUIREMENTS OF ASTM A 53

NOTE: PAINT INSIDE & OUTSIDE OF SCUPPER COMPLETE EXCEPT PORTION IN CONTACT WITH CONCRETE AS PER O.S.H.D. SPEC. ~~SEC 01~~ USING SEC-708.07 514.04

MARK BRIDGE & SCUPPER No. ON SIDE OF PIPE.




SECTION A-A




SCUPPER SUPPORT B
DOES NOT APPLY

SCUPPER SCHEDULE (TYPE I)

| NO. REQ'D | SCUPPER No. | DIMENSIONS "A" | "B" | "C" | "D" | "E" | "F" | "G" | "H" |
|---|---|---|---|---|---|---|---|---|---|
| 1 EA | 25-1 | 1'-7/8 | 11 1/2 | 1'-2 1/8 | 4'-0" | 1'-5 1/2 | — | 9 7/8 | — |
| 1 EA | 25-2 | 1'-5 1/2 | 9 7/8 | 1'-0 1/2 | 4'-0" | 1'-3 1/8 | — | 8 3/16 | — |

BUREAU OF BRIDGES
C. H. Allwater Engineer of Bridges
APPROVED 11/2/66 RDM
APPROVED AS NOTED
NOT APPROVED
for general conformance with design plans and specifications only. Does not relieve contractor from responsibility for errors or omissions.

DRAWING No. 1 OF 2

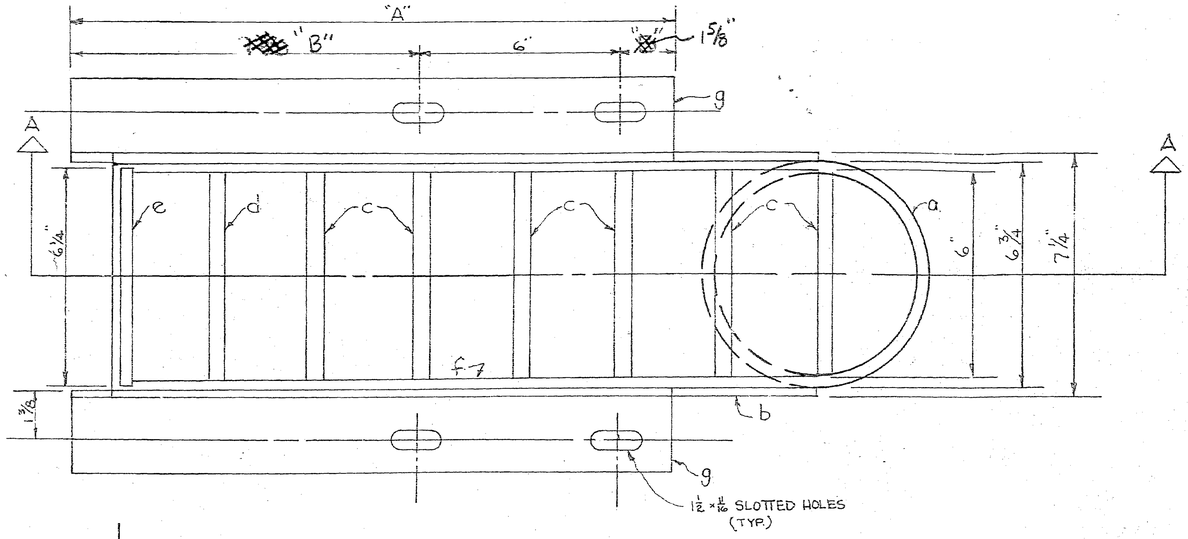
SIDNEY MACHINE MANUFACTURING
SIDNEY, OHIO

SCUPPER DETAIL FOR
VISINTINE & CO.

| BUREAU OF BRIDGES DATE APPROVED | DRAWN BY | SUBMITTED | BRIDGE No. | PROJECT No. |
|---|---|---|---|---|
| 10-19-66 | A.R.W. / CHECKED BY J.F. | 10-4-66 | FRANKLIN COUNTY #25 | 171 (66) |

Wilson Rd.

SUBSTANDARD DRAWING
This drawing does not meet minimum filming standards! MICRO-DATA does not accept responsibility for the inferior results due to the condition of this drawing.

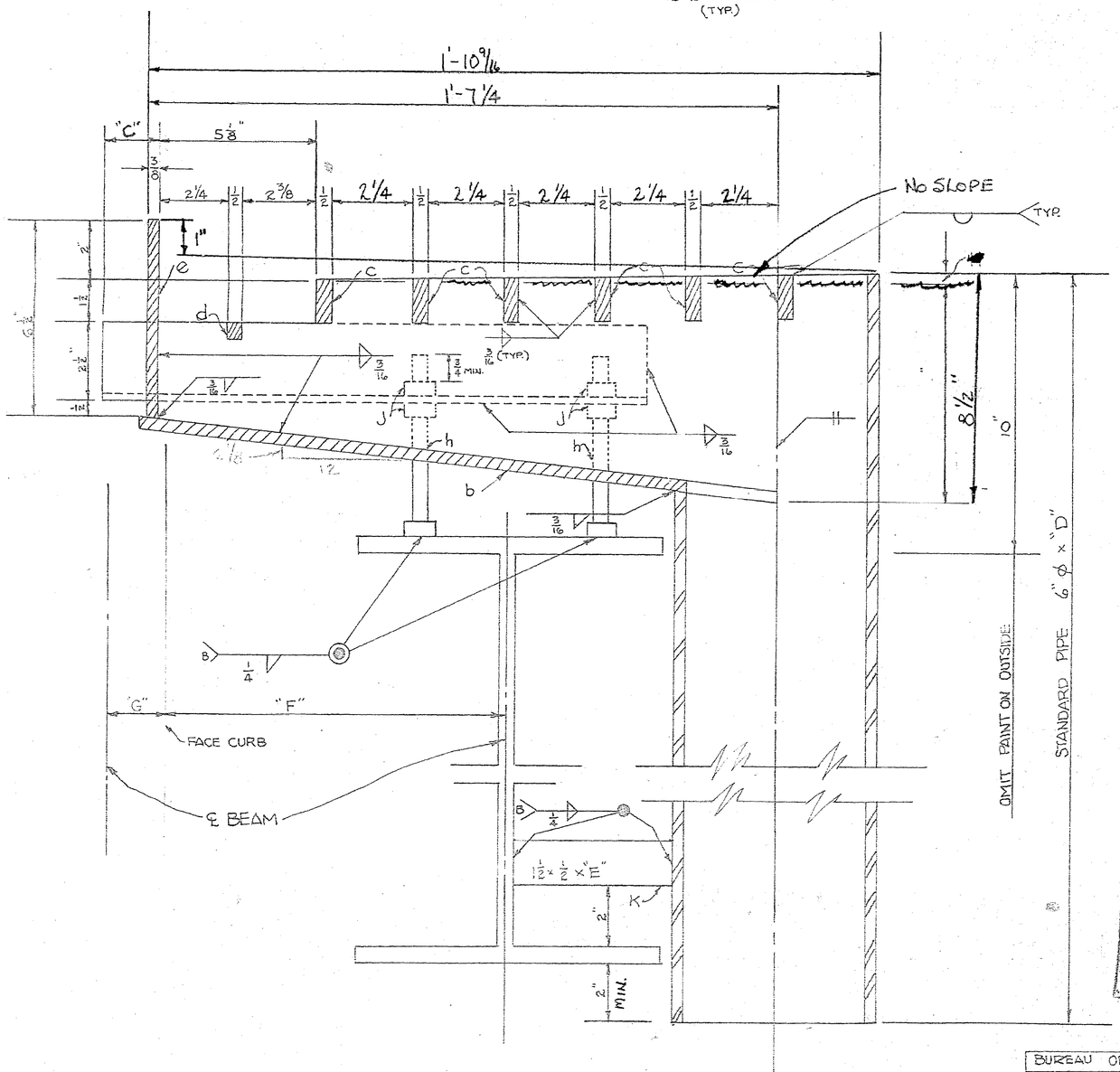



| ITEM | NO. REQ'D | MATERIAL |
|---|---|---|
| a | 1 | 6" ϕ STANDARD BLACK IRON PIPE × "D" |
| b | 1 | HOT ROLLED STEEL 3/8 × 7 1/4 × 1'-7 3/4" |
| c | 6 | HOT ROLLED STEEL 1/2 × 1 1/2 × 6" |
| d | 1 | HOT ROLLED STEEL 1/2 × 1/2 × 6" |
| e | 1 | HOT ROLLED STEEL 3/8 × 6 1/4 × 6 9/16 |
| f | 2 | HOT ROLLED STEEL 3/8 × AS SHOWN × 1'-6 7/8 |
| g | 2 | ANGLE IRON 2 1/2 × 2 1/2 × 1/4 × "A" 8 1/8" |
| h | 4 | STANDARD 5/8 × 6" BOLTS |
| j | 8 | STANDARD 5/8 HEX NUT |
| k | 1 | HOT ROLLED STEEL 1/2 × 1 1/2 × "E" (SHIP LOOSE) (CUT TO FIT IN FIELD) |

NOTE: ALL STEEL SHALL MEET REQUIREMENTS OF A.S.T.M. A-36
PIPE SHALL MEET REQUIREMENTS OF A.S.T.M. A-53

NOTE: PAINT INSIDE & OUTSIDE OF SCUPPER COMPLETE EXCEPT PORTION IN CONTACT WITH CONCRETE AS PER O.S.H.D. SPEC. 514.04 USING SEC-708.07

MARK BRIDGE & SCUPPER No. ON SIDE OF PIPE.




SECTION A-A

| SCUPPER SCHEDULE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. REQ'D | SCUPPER No. | DIMENSIONS "A" | "B" | "C" | "D" | "E" | "F" | "G" | "H" |
| 1 EA | 25-3 | 9 1/4 | 1 5/8 | 1 3/8 | 4'-0 1/2 | 1'-0 3/8 | 2 13/16 | — | — |
| 1 EA | 25-4 | 10 | 2 3/8 | 0 | 4'-0 1/2 | 10 1/8 | 4 15/16 | — | — |
| 1 EA | 25-5 | 10 3/8 | 2 3/4 | 0 | 4'-0 1/2 | 9 3/4 | 5 3/8 | — | — |
| 1 EA | 25-6 | 11 7/8 | 4 1/4 | 0 | 4'-0 1/2 | 8 1/4 | 6 7/8 | — | — |
| 1 EA | 25-7 | 1'-1 3/4 | 6 1/8 | 0 | 4'-0 1/2 | 6 1/2 | 8 11/16 | — | — |

NOTE:
ALL FIG. "F" OR "G" ARE APPROX. ONLY AND SCUPPERS TO BE SET BY ADJUSTMENT OF BOLTS ON BEAM FLANGE

BUREAU OF BRIDGES
Engineer of Bridges
APPROVED 11/2/66 RDM
APPROVED AS NOTED
NOT APPROVED
for general conformance with design plans and specifications only. Does not relieve contractor from responsibility for errors or omissions.

DRAWING No 2 OF 2

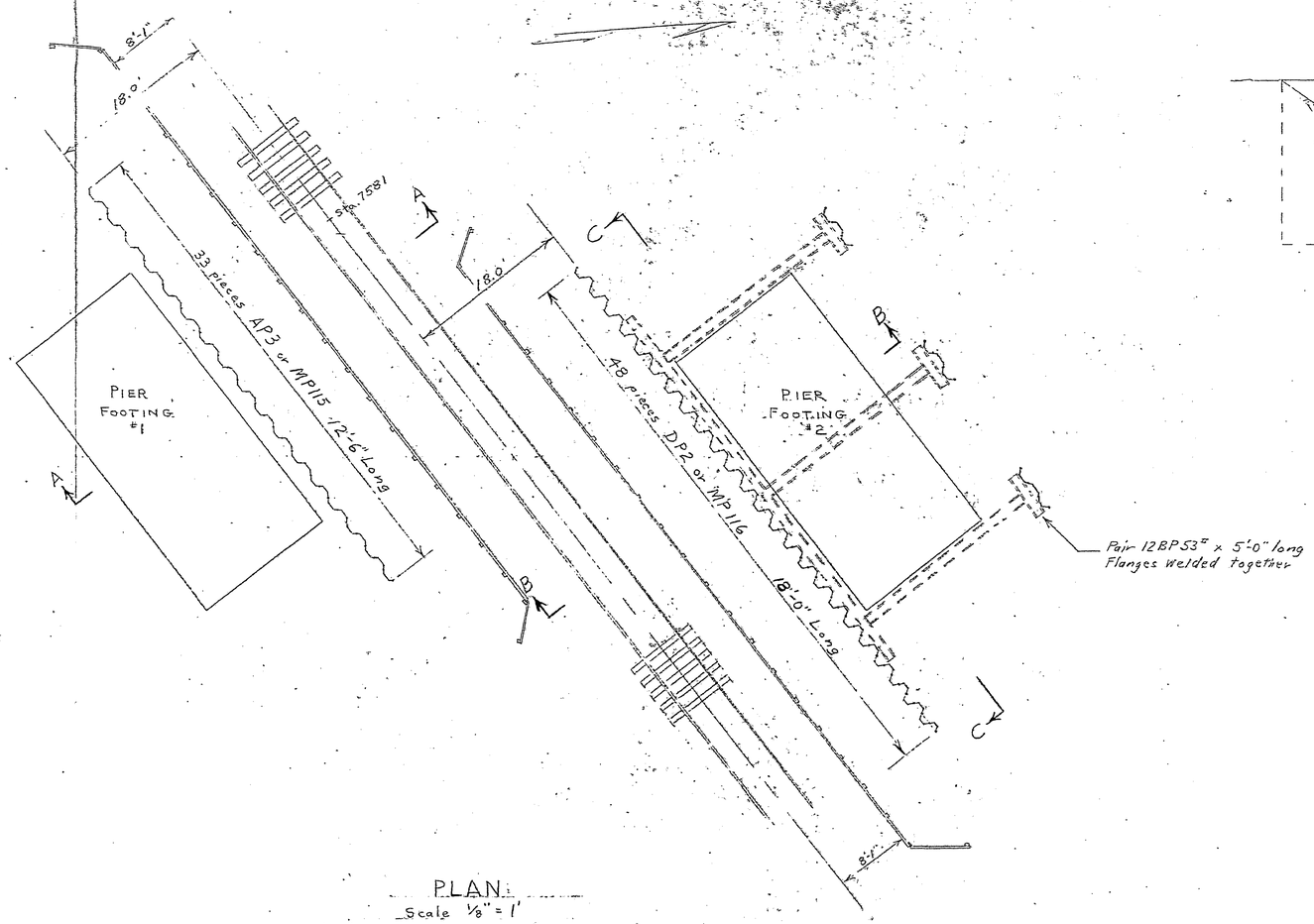
SIDNEY MACHINE MANUFACTURING
SIDNEY, OHIO

SCUPPER DETAIL FOR
VISINTINE & CO.

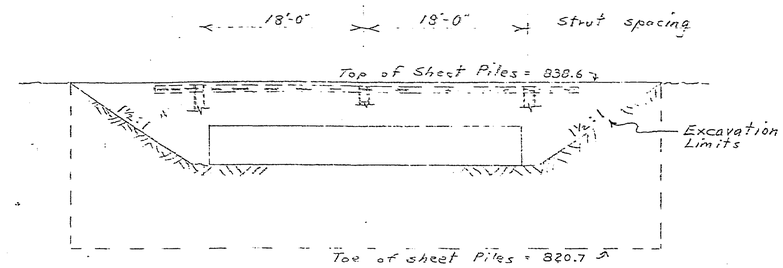
| BUREAU OF BRIDGES DATE APPROVED | DRAWN BY | DATE | BRIDGE No. | PROJECT No. |
|---|---|---|---|---|
| 10-19-66 | A.R.W. CHECKED BY J.F. | 10-4-66 | FRANLIN COUNTY #25 | 171(66) |

SUBSTANDARD DRAWING
This drawing does not meet minimum filming standards: MICRO-DATA does not accept responsibility for the inferior results due to the condition of this drawing.

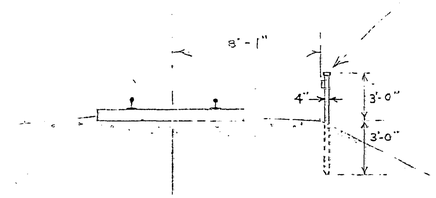
5080 010 SHOP DWG. SCUPPER DETAILS 00063 1968 0100 060




PLAN
Scale 1/8" = 1'




SECTION CC
1/8" = 1'




Continuous top & side rail, 2x4 with 4x6 posts every 4'. Provide yellow electric lights along top rail during night.

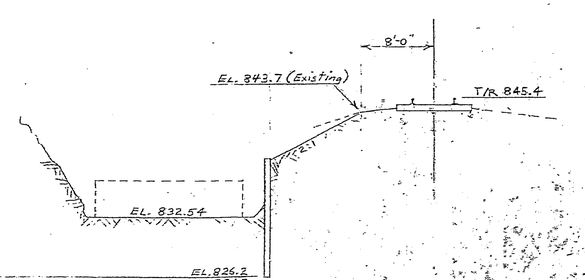
HANDRAIL DETAIL

## NOTE

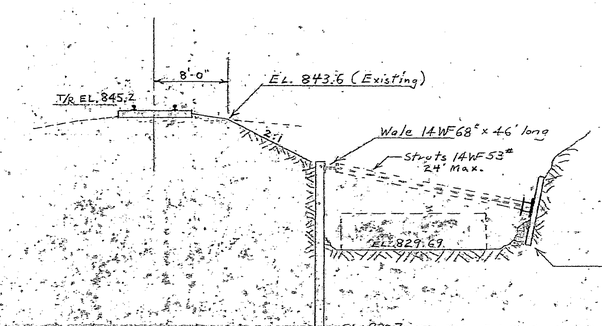
Wale & Strut system to be required at pier #2 if ground water is present at Elevation 829.69.

Struts to be attached by minimum of 30" of 3/16" fillet weld (outside of flanges & one side of web) at each end.

Place two stiffeners 1/2"x4" each side of wale web opposite strut flanges & weld all around with 3/16 fillet.




SECTION AA
Handrail not shown
1/8" = 1'




SECTION BB
1/8" = 1'
Handrail not shown

| BUREAU OF BRIDGES | | |
|---|---|---|
| C.H. Alfvoord Engineer of Bridges | | |
| APPROVED | BFG | SEP 13 1966 |
| APPROVED AS NOTED | | |
| NOT APPROVED | | |

for general conformance with design plans and specifications only. Does not relieve contractor from responsibility for errors or omissions.

0.63
Fra 25-[redacted]
Wilson Rd
3-3-2

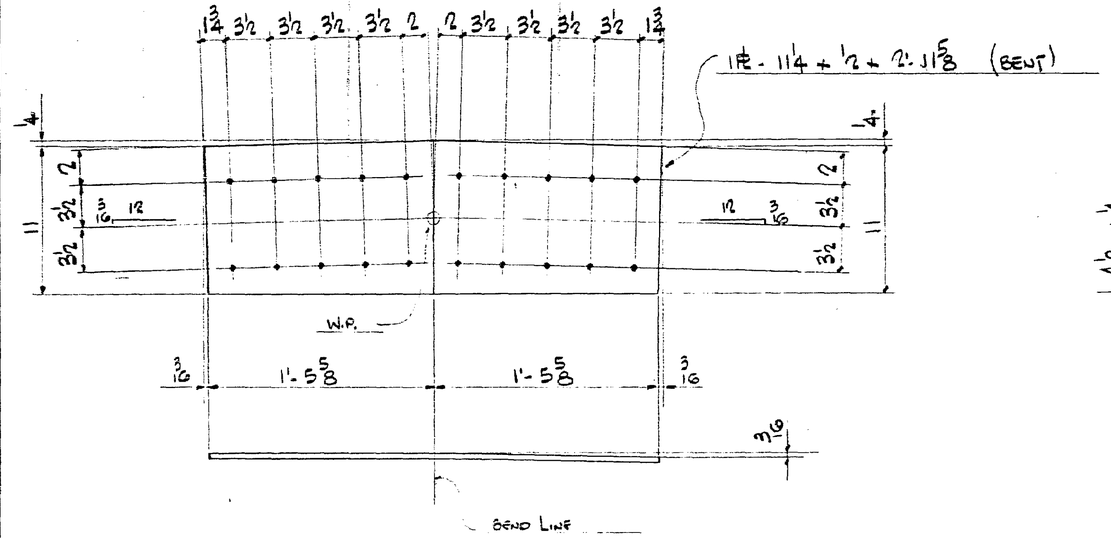
SHEETING & PROTECTION
FOR
NEW YORK CENTRAL RAILROAD
Project 171- 1966
Franklin County Road 25
Vissintine & Company

John A. Chapman, P.E. July 14, 1966
Revised July 26, 1966 - Rev. Aug. 29, 1966

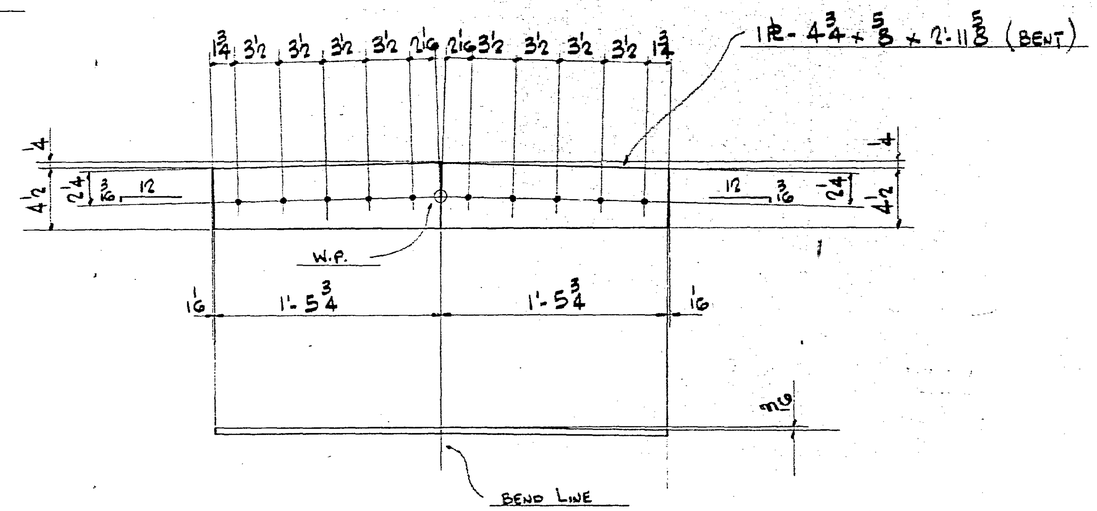
Wilson Rd.

5080 010 SHEETING & PROTECTION 0063 1968 0110 060

| a | aa | ba |
|---|---|---|
| b | ab | bb |
| c | | |
| d | | |
| f | | |
| g | | |
| h | | |
| k | | |
| m | | |
| n | | |
| p | | |
| s | | |
| t | | |
| v | | |
| w | | |
| y | | |




24 - SPLICE PLATES - P1




24 - SPLICE PLATES - P2

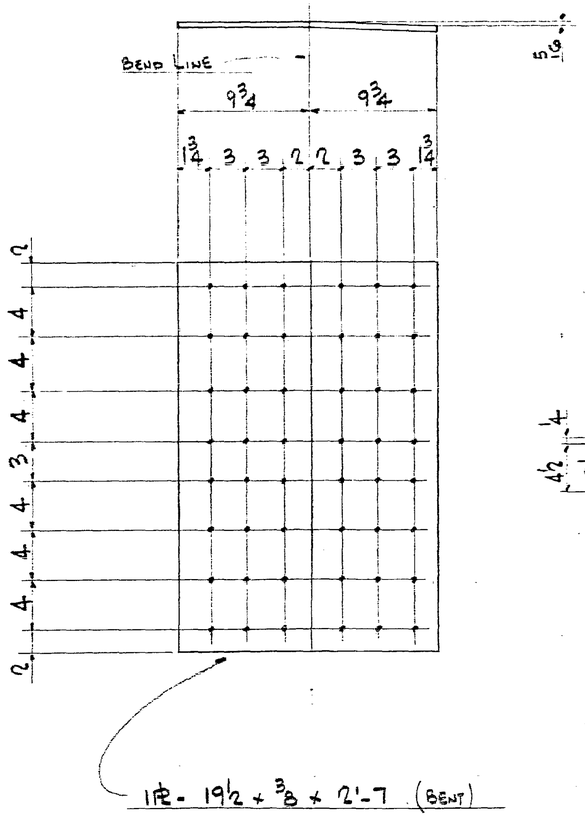
SHOP NOTES !

ALL MATERIAL A36 STEEL

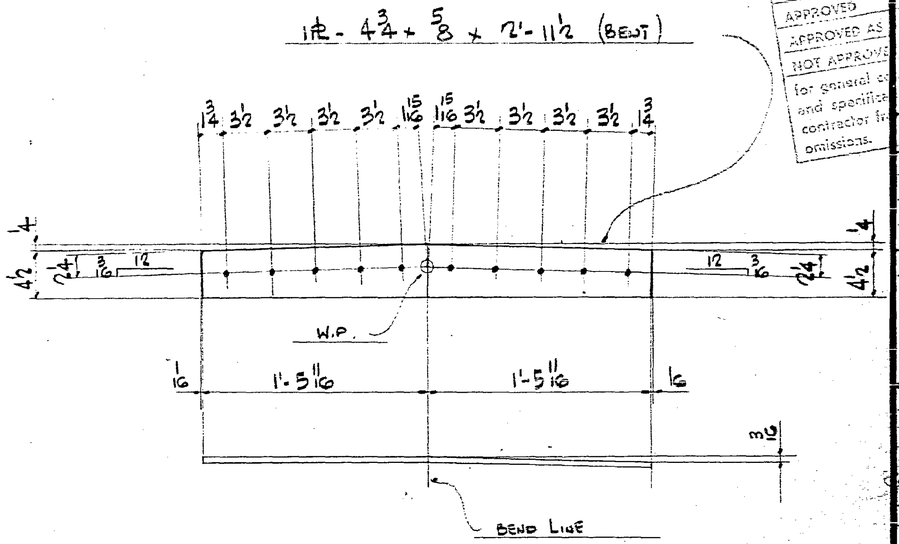
HOLES SUB-PUNCHED OR SUB-DRILLED 13/16 ϕ & REAM

HOLES TO 11/16 ϕ

HOLES MAY BE DRILLED FULL SIZE IF ALL SPLICE PLATES ARE HELD IN PLACE DURING DRILLING (DRILL THRU BEAM & PLATES TOGETHER) REMOVE ALL BURRS




24 - SPLICE PLATES - P4




24 - SPLICE PLATES - P3

BUREAU OF BRIDGES
Engineer of Bridges
APPROVED
APPROVED AS NOTED
NOT APPROVED
for general conformance with design plans and specifications only. Does not relieve contractor from responsibility for errors or omissions.

FOR REFERENCE

SPLICE PLATES

| DATE | NO. | REVISION | BY | CH. BY |
|---|---|---|---|---|

HOLES As ~~[illegible]~~ NOTED
SHOP CONNECTIONS Cb
FIELD CONNECTIONS BOLTED
ERECTION BY OTHERS

FINISH UNLESS NOTED
NO PAINT

| ISSUE | | |
|---|---|---|
| FOR | NO. | DATE |
| APPR | 3 | 8-2 |
| SHOP | 3 | 8-23-66 |
| O.S.H.D. | 4 | 9-6-66 |
| CONTR | 3 | 9-6-66 |

The J.T. EDWARDS COMPANY
1241 McKINLEY AVENUE
COLUMBUS, OHIO 43222

BRIDGE #171 - CR - 25
WILSON Rd. N.Y.C. R.R.
FRANKLIN COUNTY

WHITAKER MERRELL Co.
CONTRACTOR

O.S.H.D. (BARRETT ASSOCIATED ENG.)
ARCHITECT-ENGINEER

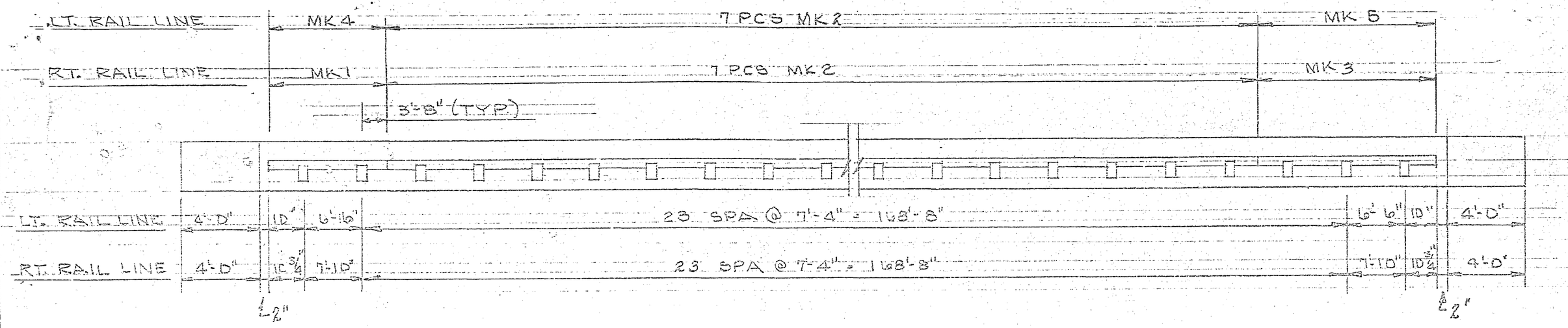
| CONTRACT NO. | DRAWN | CHECKED | APPROVED | |
|---|---|---|---|---|
| 20852 | JB JULY-66 | LC | O.S.H.D. 8-20-66 | B 11 OF |

CONTRACT 20852 - B11

HILLS CO.—10-5155—2M—1-65

5080 010 SHOP DWG. STR. STEEL 0063 1968 0120 060

Wilson Rd.




# BR. NO. WILSON RD. OVER N.Y.C. R.R. TYPE 1 ALUMINUM RAILING PLAN

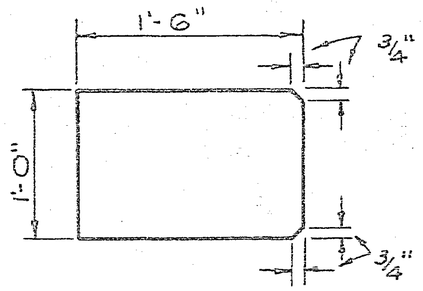
ALL ENDS CAPPED (TYP)

## BILL OF MATERIAL

| QUAN. | DESCRIPTION |
|---|---|
| 52 | TYPE 1 ALUMINUM CASTING |
| 208 | 3/4" × 1'-0" GALV. STEEL ANCHOR BOLTS, NUTS & WASHERS |
| 24 | 1/4" THK. GRAY SPONGE RUBBER JT. |
| 4 | 4 1/2" RAIL CAPS PER STD. DWG. BR-1-65 |
| 16 | TUBE SPLICE, COMPLETE, PER STD. DWG. BR-1-65 |
| 1 | GAL. ALUMILASTIC |
| | PAY LENGTH: 2816.69 LF |
| | 4 1/2" O.D. × .297" WALL ALUMINUM TUBE WITH ANCHOR CHANNEL |
| 1 | MARK 1 12'-4 3/4" |
| 14 | MARK 2 28'-0" |
| 1 | MARK 3 19'-8 3/4" |
| 1 | MARK 4 11'-0" |
| 1 | MARK 5 18'-4" |

SHIMS FURNISHED AS REQUIRED

FOR DETAILS NOT SHOWN SEE PROJECT PLANS & STD. DWG. BR-1-65 DATED 2-1-65 REVISED 11-24-65
ALL MATERIAL IN ACCORDANCE WITH STD. DWG. BR-1-65 & O.S.H.D. CONSTR. & MATERIAL SPECIFICATIONS DATED 1-1-65




GRAY SPONGE RUBBER JT.

| | |
|---|---|
| APPROVED | ARS 8-24-66 |
| APPROVED AS NOTED | |
| NOT APPROVED | |

for general conformance with design plans

6 PRINTS FOR DISTRIBUTION

| REV. | PROJECT 171 (66) FRANKLIN CO. |
|---|---|
| | TYPE 1 ALUM. RAIL DETAILS |
| | CONTRACTOR: VISINTINE & CO. |
| | BR. NO. WILSON RD. OVER NYC RR. |
| | FURN. BY ALCOA THRU WHITAKER-MERRELL CO. |
| SHT. 1-1 | DRAWN CM / CHECKED DC / NO SCALE / 1-24-66 |

Wilson Rd

5080 010 SHOP DWG. RAILING DETAILS 0063 1968 0130 060


SUBSTANDARD DRAWING

This drawing does not meet minimum filming standards: MICRO-DATA does not accept responsibility for the inferior results due to the condition of this drawing.

| a | aa | ba |
|---|---|---|
| b | ab | bb |
| c | | |
| d | | |
| f | | |
| g | | |
| h | | |
| k | | |
| m | | |
| n | | |
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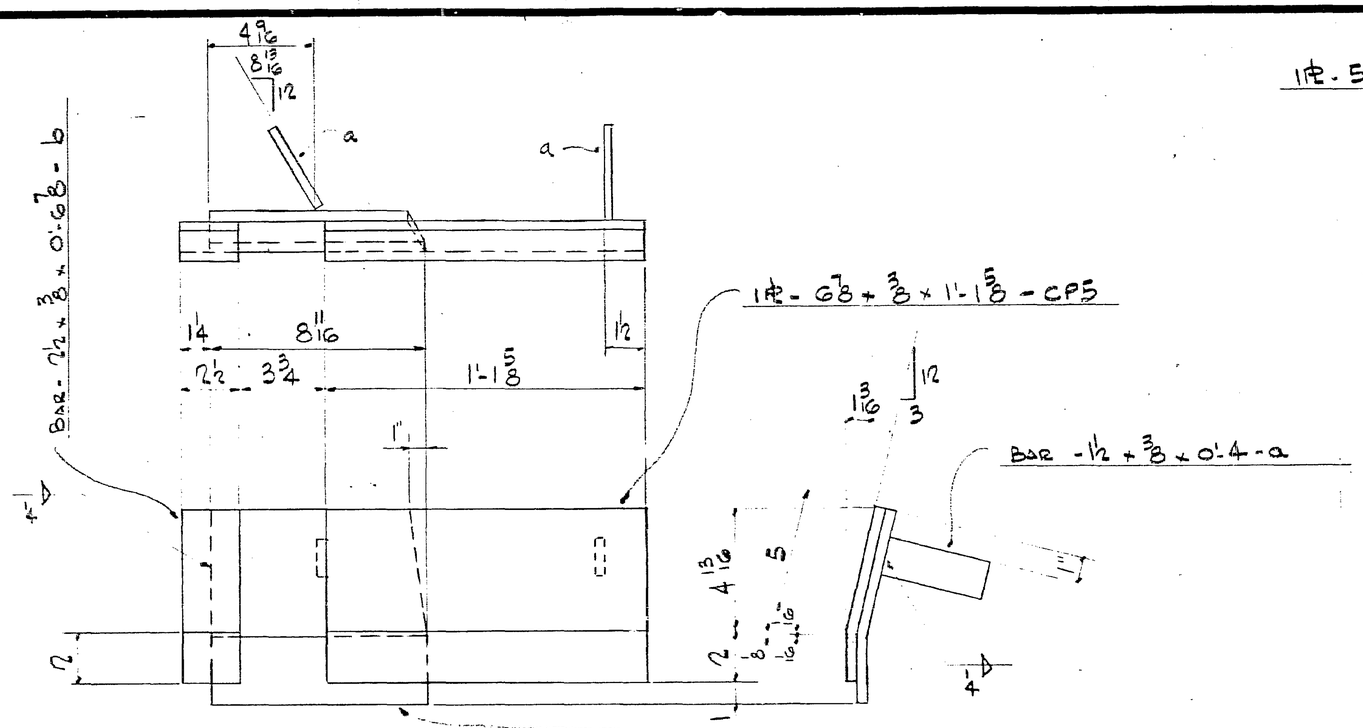
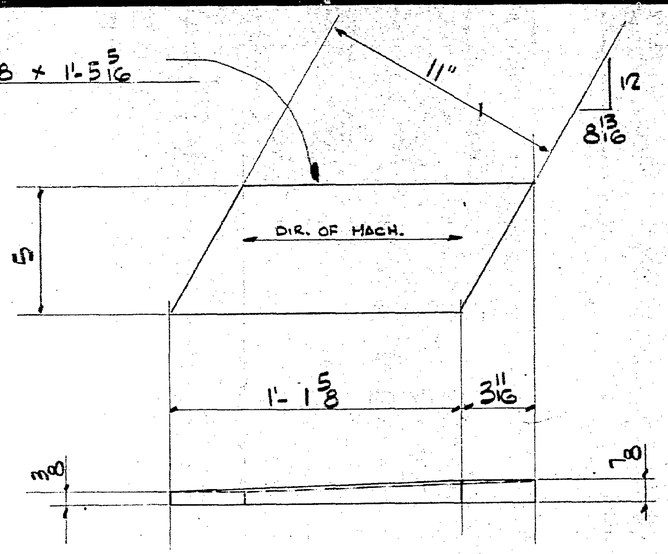
| s | | |
| t | | |
| v | | |
| w | | |
| y | | |

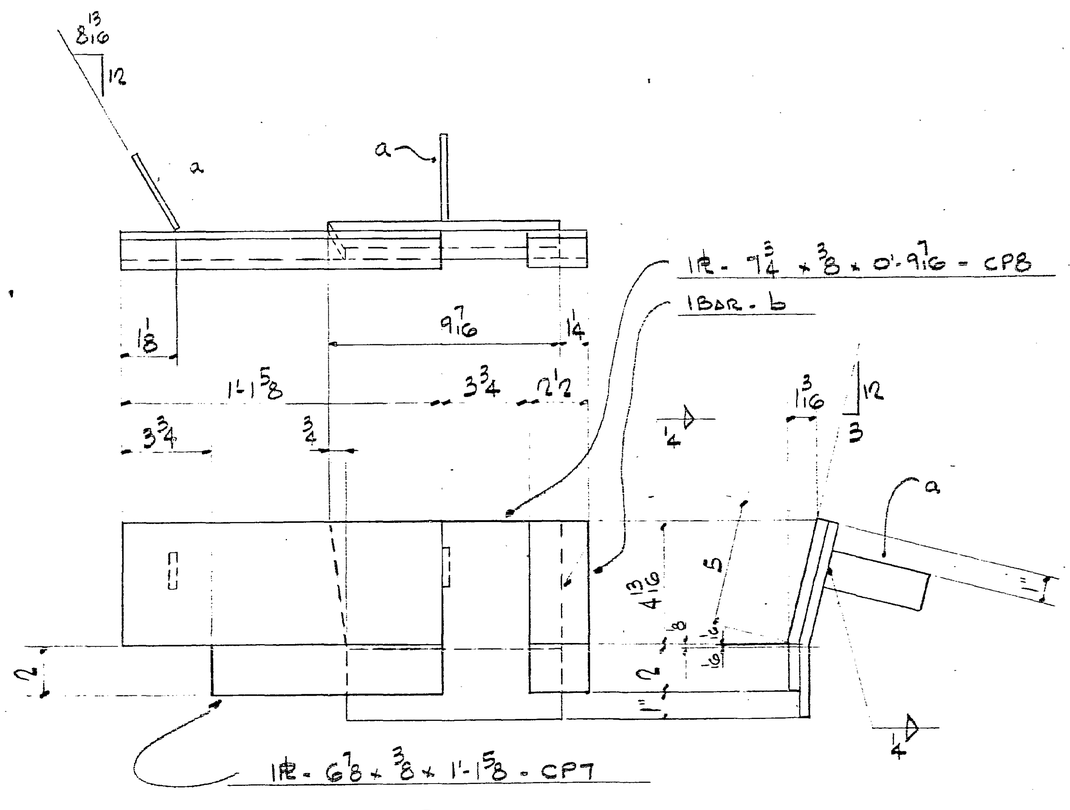



ONE - CURB PLATE - CP5

ONE - do - CP6




6 - FILL PLATES - FP2




ONE - CURB PLATE - CP7

ONE - do - CP8

BUREAU OF BRIDGES
C. H. Altwater, Engineer of Bridges
APPROVED
APPROVED AS NOTED
8-25-66

FOR REFERENCE

BROKERAGE ITEMS
MACHINING conformance with plans and specifications only. Fabricator contractor from responsibility of errors or omissions.

CURB PLATES (SD-1-63 R.F.)

| DATE | NO. | REVISION | BY | CH. BY |
|---|---|---|---|---|

HOLES 4" UNLESS NOTED
SHOP CONNECTIONS WELDED
FIELD CONNECTIONS WELDED
ERECTION BY

FINISH UNLESS NOTED
No PAINT

| ISSUE FOR | NO. | DATE |
|---|---|---|
| APPR | 3 | 8-2 |
| SHOP | 3 | 8-23-66 |
| O.S.H.D | 4 | 8-25 |
| CONTR | 3 | 8-25 |
| DES | 1 | 8-12 |

The J.T. Edwards Company
1241 McKINLEY AVENUE
COLUMBUS, OHIO 43222

BRIDGE # 171 - CR. 25
WILSON Rd. OVER N.Y.C. R.R.
FRANKLIN COUNTY

WHITAKER MERRELL CO.
CONTRACTOR

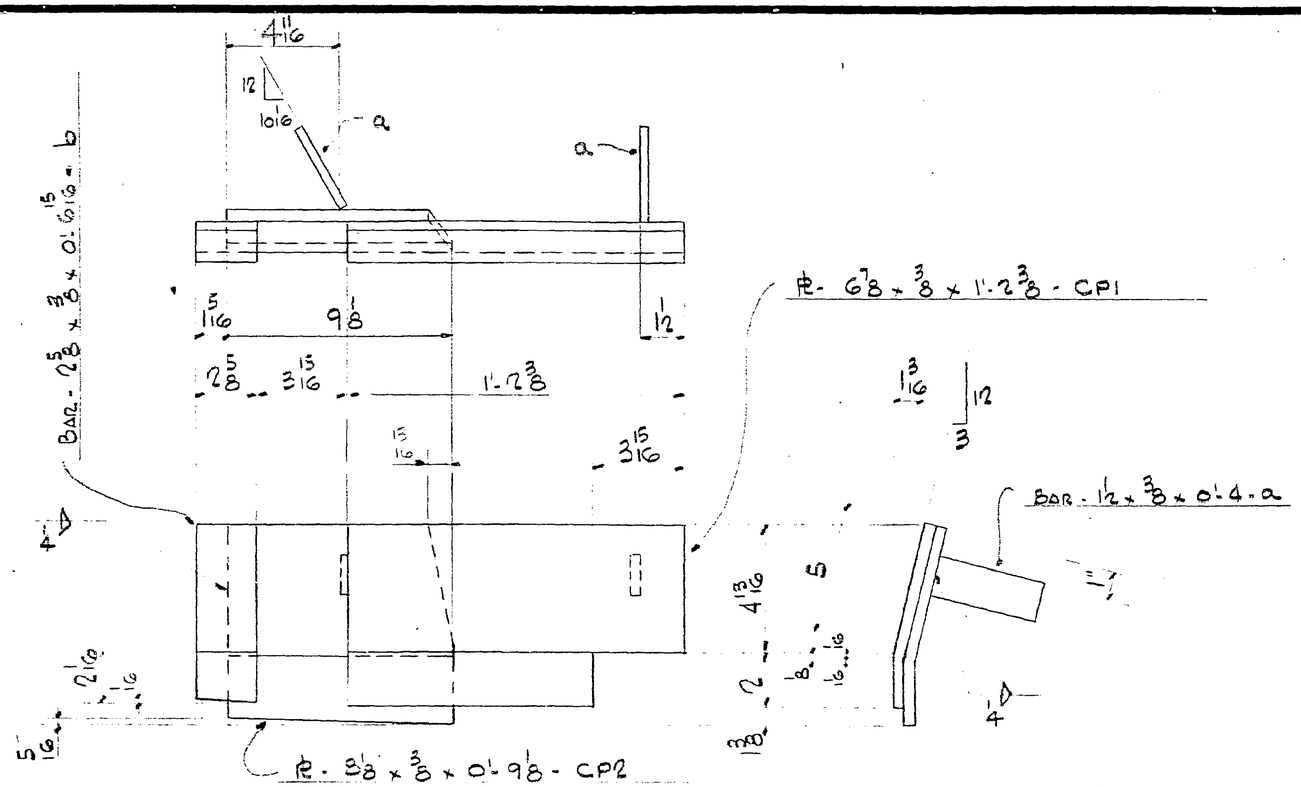
OHIO STATE HIGHWAY DEPARTMENT
ARCHITECT-ENGINEER

| CONTRACT NO. | DRAWN | CHECKED | APPROVED | B 12 OF |
|---|---|---|---|---|
| 20582 | JB JULY-66 | | O.S.H.D. 8-20-66 | |

CONTRACT 20852-B12

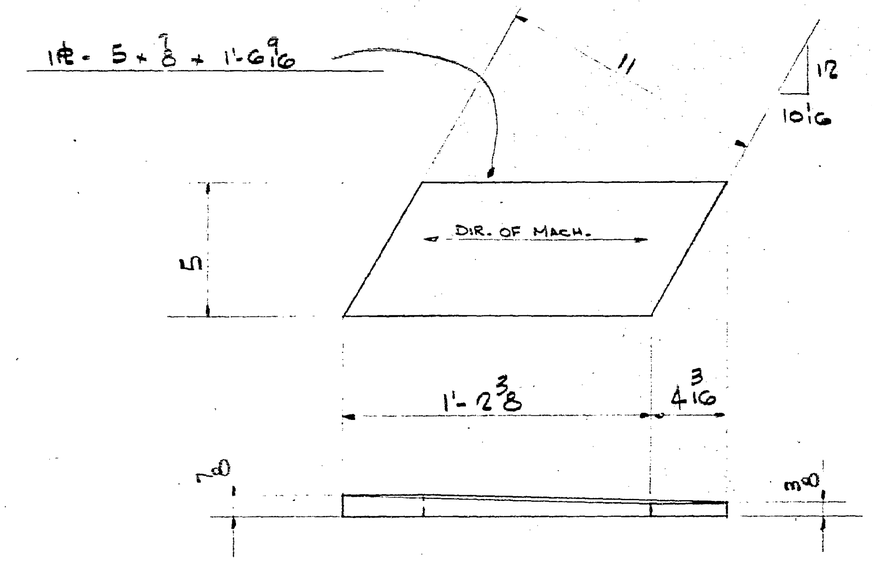
HILLS CO.—10-5155—1M—1-65

5080 010 SHOP DWG. STR. STEEL 0063 1968 0130 060

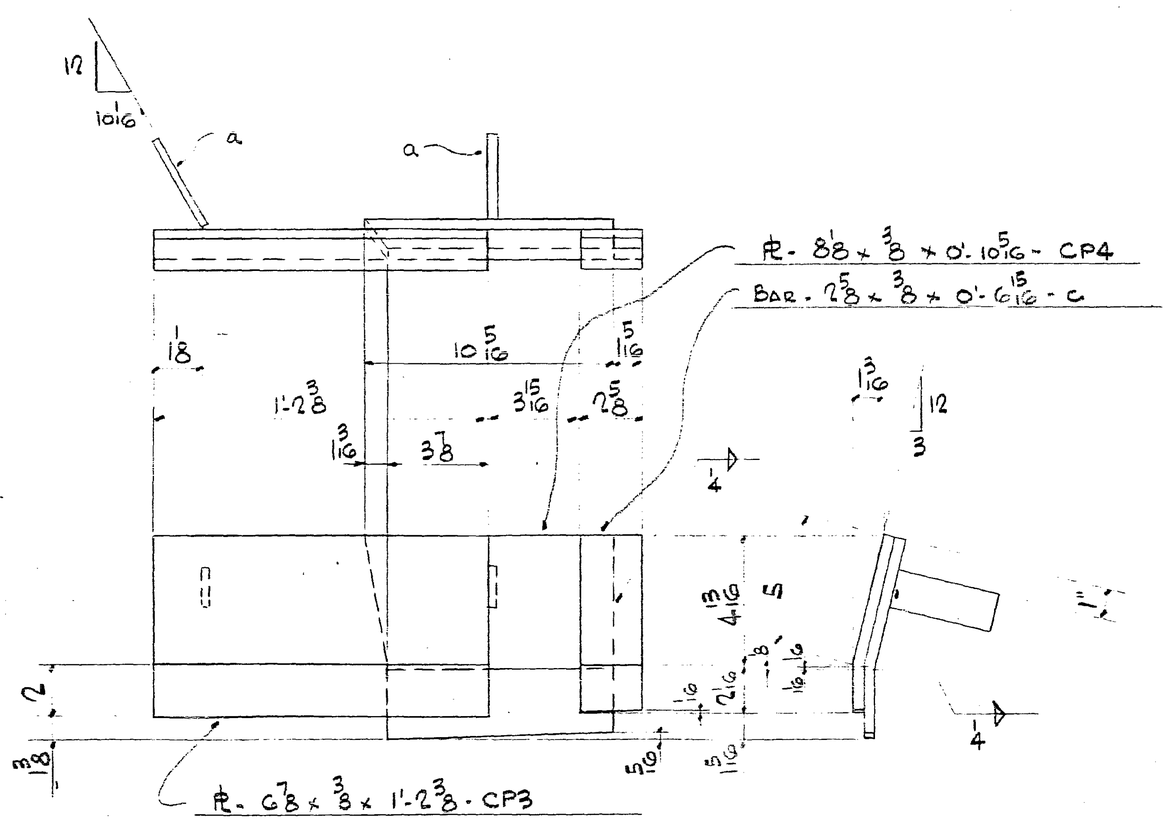



ONE - CURB PLATE - CP1

ONE - do - CP2




6 - FILL PLATES - FP1




ONE - CURB PLATE - CP3

ONE - do - CP4


ARS 82566

BROKERAGE ITEMS
MACHINING

FOR REFERENCE


CURB PLATES & FILL PLATES (SO-1-63 R.F)

| DATE | NO. | REVISION | BY | CH. BY |
|---|---|---|---|---|

HOLES ⊥ UNLESS NOTED
SHOP CONNECTIONS WELDED
FIELD CONNECTIONS do
ERECTION BY

FINISH UNLESS NOTED
No PAINT

| ISSUE FOR | NO. | DATE |
|---|---|---|
| APPR | 5 | 8-2 |
| SHOP | 3 | 8-21-66 |
| OSHD | 4 | 8-23 |
| CONTR | 5 | 8-23 |
| OES | 1 | 8-23 |

The J.T. EDWARDS COMPANY
1241 McKINLEY AVENUE
COLUMBUS, OHIO 43223

BRIDGE #171-CR-25
WILSON Rd. OVER N.Y.C. RR.
FRANKLIN COUNTY

WHITAKER MERRELL CO.
CONTRACTOR

OHIO STATE HIGHWAY DEPARTMENT
ARCHITECT-ENGINEER

| CONTRACT NO. | DRAWN | CHECKED | APPROVED | B 13 OF |
|---|---|---|---|---|
| 20852 | JB JUN-66 | LC. | O.S.H.D. 8-20-66 | |

CONTRACT 20852-B13

HILLS CO.—10-5155—2M—1-65

5080 010 SHOP DWG. STR. STEEL 0063 1968 0140 060

| | | |
|---|---|---|
| a | aa | ba |
| b | ab | bb |
| c | | |
| d | | |
| f | | |
| g | | |
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| k | | |
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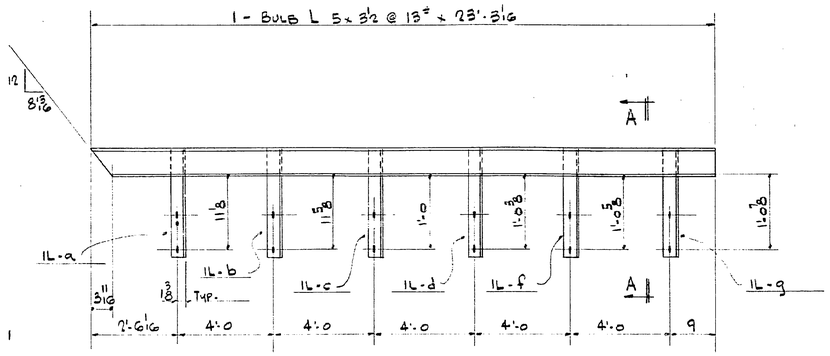
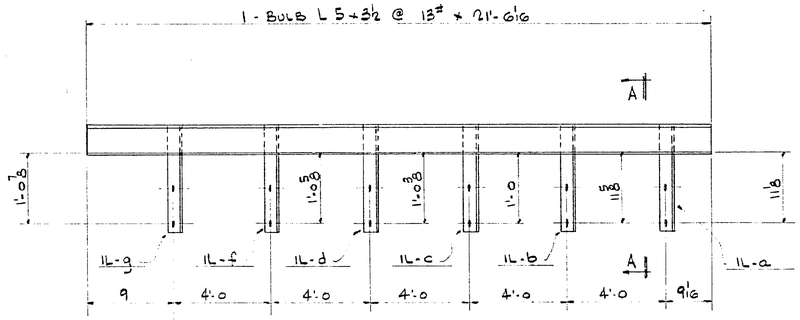
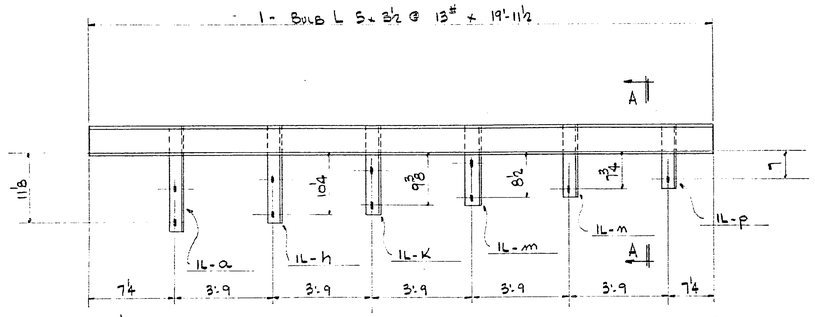
| s | | |
| t | | |
| v | | |
| w | | |
| y | | |



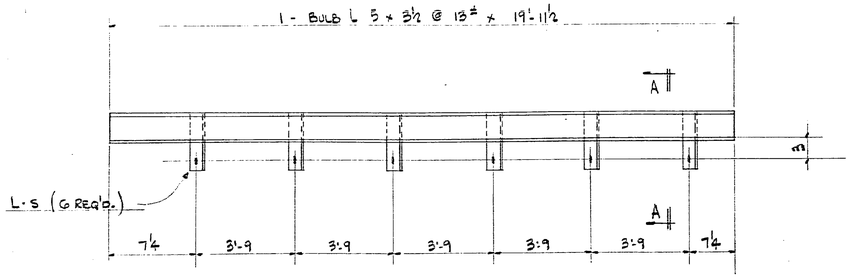

ONE - GUTTER - G1



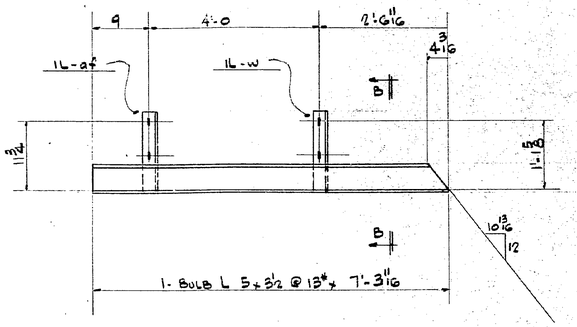

ONE - GUTTER - G2



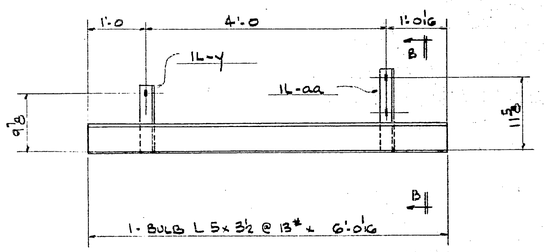

ONE - GUTTER - G3



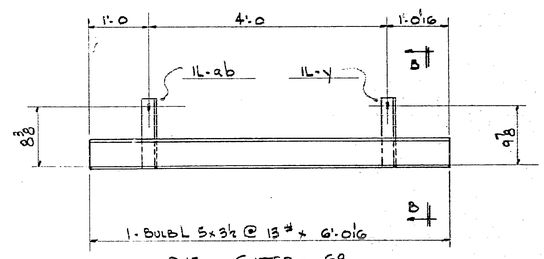

2 - GUTTERS - G4



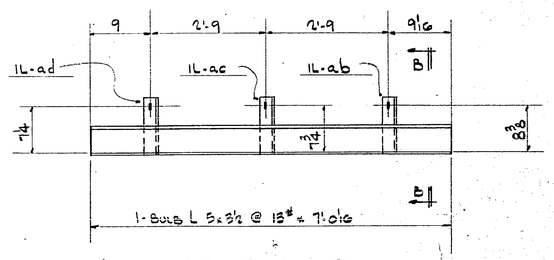

ONE - GUTTER - G10



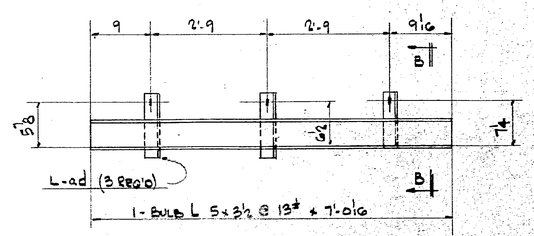

ONE - GUTTER - G9



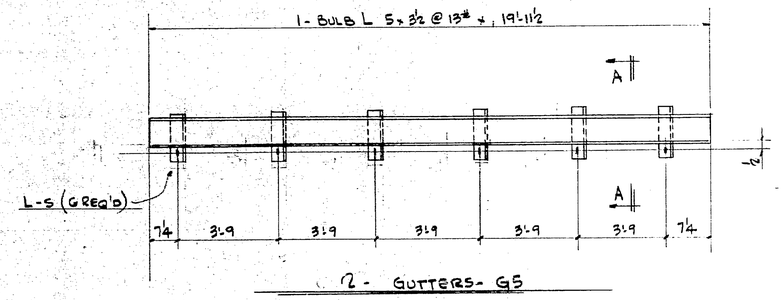

ONE - GUTTER - G8



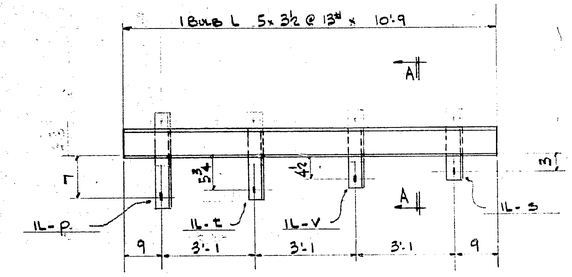

ONE - GUTTER - G7




ONE - GUTTER - G6



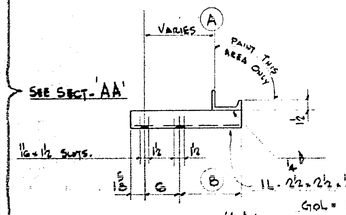

2 - GUTTERS - G5




ONE - GUTTER - G11

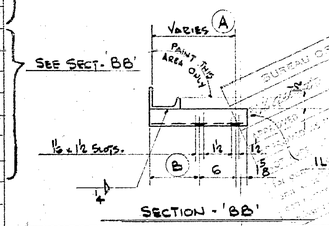
| MARK | | DIMENSIONS (A) | (B) | (C) |
|---|---|---|---|---|
| 1L-2½ x 2½ x ¼ x (U) | a | 11⅛ | 9¾ | 1'-5⅜ |
| | b | 11⅝ | 10¼ | 1'-5⅞ |
| | c | 1'-0 | 10⅝ | 1'-6¼ |
| | d | 1'-0⅜ | 11 | 1'-6⅝ |
| | f | 1'-0⅝ | 11¼ | 1'-6⅞ |
| | g | 1'-0⅞ | 11½ | 1'-7⅛ |
| | h | 10¼ | 8⅞ | 1'-4½ |
| | K | 9⅜ | 8 | 1'-3⅝ |
| | m | 8½ | 7⅛ | 1'-2¾ |
| | n | 7¾ | 6⅜ | 1'-2 |
| | p | 7 | 5⅝ | 1'-1¼ |
| | s | VARIES | 1⅝ | 9¼ |
| | t | 5¾ | 4⅜ | 1'-0 |
| | v | 4½ | 3⅛ | 10¾ |
| | w | 1'-1⅝ | 8 | 1'-3⅝ |
| | y | 9⅞ | 4¼ | 11⅞ |
| | aa | 11⅝ | 6 | 1'-1⅝ |
| | ab | 8⅜ | 2¾ | 10⅜ |
| | ac | 7¾ | 2⅛ | 9¾ |
| | ad | VARIES | 1⅝ | 9¼ |
| | af | 11¾ | 6⅛ | 1'-1¾ |

SEE SECT. 'AA'




SECTION - 'AA'

SEE SECT. 'BB'




SECTION - 'BB'

BUREAU OF BRIDGES
Rec'd 8-25-66

SHOP NOTE!
ALL MATERIAL A-36 GRT

GUTTERS

FOR INFORMATION

| DATE | NO. | REVISION | BY | CH. BY |
|---|---|---|---|---|

HOLES As ~~UNLESS~~ NOTED
SHOP CONNECTIONS WELDED
FIELD CONNECTIONS WELDED & BOLTED
ERECTION BY OTHERS

FINISH UNLESS NOTED
ONE SHOP COAT 708.07
BRUSHED ON

| ISSUE FOR | NO. | DATE |
|---|---|---|
| APPR. | 3 | 8-2 |
| SHOP | 3 | 8-11-66 |
| OS HD | 4 | 8-13 |
| CONTR | 3 | 8-13 |

The J.T. EDWARDS COMPANY
1241 McKINLEY AVENUE
COLUMBUS, OHIO 43222

BRIDGE # 171 - CR - 25
WILSON Rd. OVER N.Y.C. R.R.
FRANKLIN COUNTY

WHITAKER MERRELL Co.
CONTRACTOR

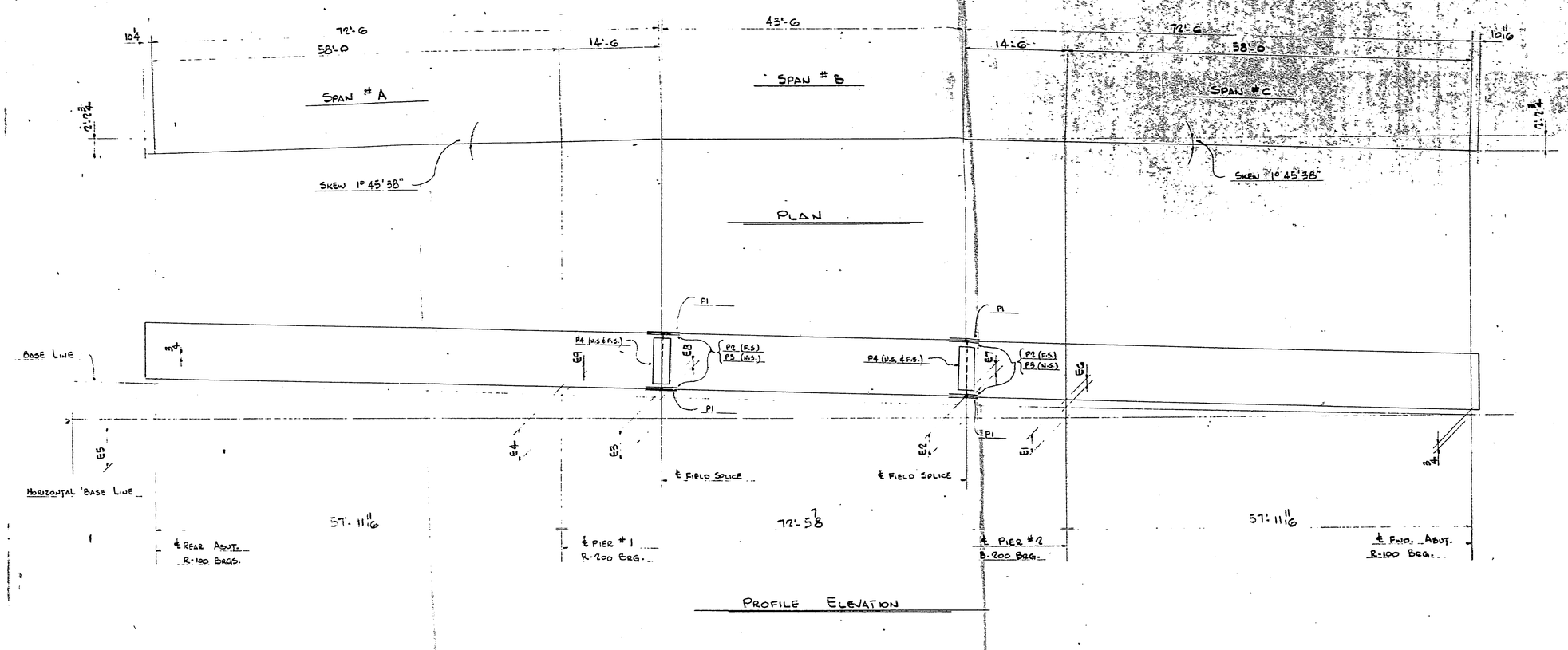
O.S.H.D. (BARRETT ASSOCIATED ENG.)
ARCHITECT-ENGINEER

| CONTRACT NO. | DRAWN | CHECKED | APPROVED | |
|---|---|---|---|---|
| 20852 | JB JULY-66 | LC. | O.S.H.D. 8-25-66 | A 14 OF |

Wilson Rd.

SUBSTANDARD DRAWING
This drawing does not meet minimum filming standards! MICRO-DATA does not accept responsibility for the inferior results due to the condition of this drawing.

5080 010 SHOP DWG.STR.STEEL 00613 19968 01150 060




| LINE | OFF SET DIMENSIONS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | E1 | E2 | E3 | E4 | E5 | E6 | E7 | E8 | E9 |
| 1 | 2'-0¾ | 2'-6⅛ | 3'-7¼ | 3'-10¾ | 4'-10⅛ | 7⅛ | 8⅛ | 8 | 7 |
| 2 | 2'-1½ | 2'-7 1/16 | 3'-8 9/16 | 4'-0⅛ | 5'-0 | 7¼ | 8¼ | 8⅛ | 7⅛ |
| 3 | 2'-2 | 2'-7 11/16 | 3'-9 15/16 | 4'-1⅝ | 5'-1⅞ | 7 3/16 | 8 3/16 | 8 5/16 | 7 5/16 |
| 4 | 2'-2½ | 2'-8 5/16 | 3'-10⅞ | 4'-2¾ | 5'-3⅝ | 7⅛ | 8⅛ | 8¼ | 7¼ |
| 5 | 2'-3¼ | 2'-9¼ | 4'-0⅜ | 4'-4⅜ | 5'-5¾ | 7¼ | 8¼ | 8⅜ | 7⅜ |
| 6 | 2'-4⅛ | 2'-10⅜ | 4'-1¾ | 4'-5⅞ | 5'-7⅞ | 7½ | 8½ | 8⅜ | 7⅜ |

NOTES!

ALL OFFSET DIMENSIONS ARE TO THE BOTTOM OF BEAM FLANGE.
BASE LINE IS A STRAIGHT LINE BELOW ABUTMENT BEARING POINTS.
FIT-UP GAP BETWEEN BEAMS ⅛ MIN. ¼ MAX.
MATCH MARK SPLICE PLATES AND BEAMS, AFTER DRILLING, SHIP SPLICE PLATES BOLTED TO BEAMS IN CORRECT POSITION, WITH TWO BOLTS IN EACH SPLICE. WIRE LOOSE FILL PLATES FOR SHIPPING.
IN THE FINAL SHOP ASSEMBLY, FILLS SHALL BE FURNISHED WITH THICKNESS SUFFICENT TO COMPENSATE FOR ANY MISALIGNMENT OF ABUTTING FLANGES & WEBS DUE TO STANDARD ROLLING MILL TOLERANCES. (THAT VARY BY MORE THAN 1/16 INCH)
OFFSET DIMENSIONS INCLUDE SHOP CAMBER

BUREAU OF BRIDGES
Engineer of Bridges
APPROVED
APPROVED AS NOTED
NOT APPROVED
for general conformance with design plans and specifications only. Does not relieve contractor responsibility for errors or omissions

FOR REFERENCE

SHOP BOLTS.
24 - S.H.M.B. w/ S.N. 1" ϕ x 2¾
48 - S.H.M.B. w/ S.N. 1" ϕ x 3½

BEAM FIT UP & SPLICE PLATE LOCATION

| DATE | NO. | REVISION | BY | CH. BY |
|---|---|---|---|---|

HOLES ____ UNLESS NOTED
SHOP CONNECTIONS BOLTED
FIELD CONNECTIONS BOLTED
ERECTION BY OTHERS
FINISH UNLESS NOTED

| ISSUE FOR | NO. | DATE |
|---|---|---|
| APPR | 1 | 8-2 |
| STRUC | 3 | 8-11-66 |
| OSHD | 4 | 8-11 |
| CONTR | 3 | 8-15 |

The J.T. EDWARDS COMPANY
1241 McKINLEY AVENUE
COLUMBUS, OHIO 43222

BRIDGE # 171 - CR - 25
WILSON Rd. OVER N.Y.C. R.R.
FRANKLIN COUNTY

WHITAKER MERRELL Co.
CONTRACTOR

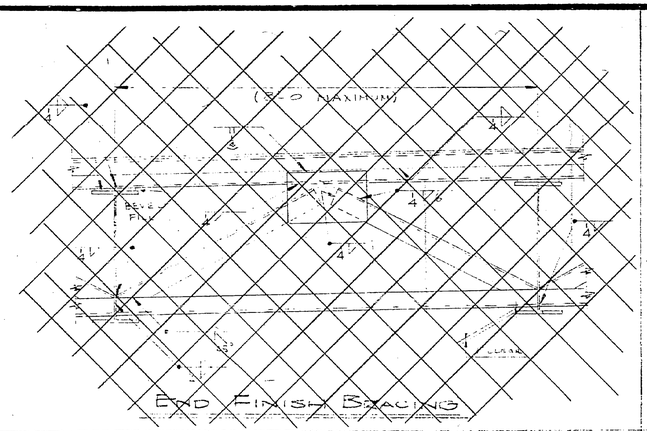
O.S.H.D. (BARRETT ASSOCIATED ENG.)
ARCHITECT-ENGINEER

| CONTRACT NO. | DRAWN | CHECKED | APPROVED | A 10 OF |
|---|---|---|---|---|
| 20852 | JB JULY-66 | LC. | O.S.H.D. 8-20-66 | |

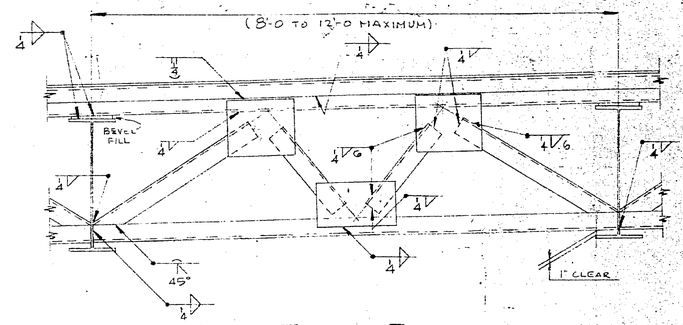
5080 010 SHOP DWG-STR. STEEL 0063 1968 9160 060

HILLS CO.—10-1151—1500—4-65

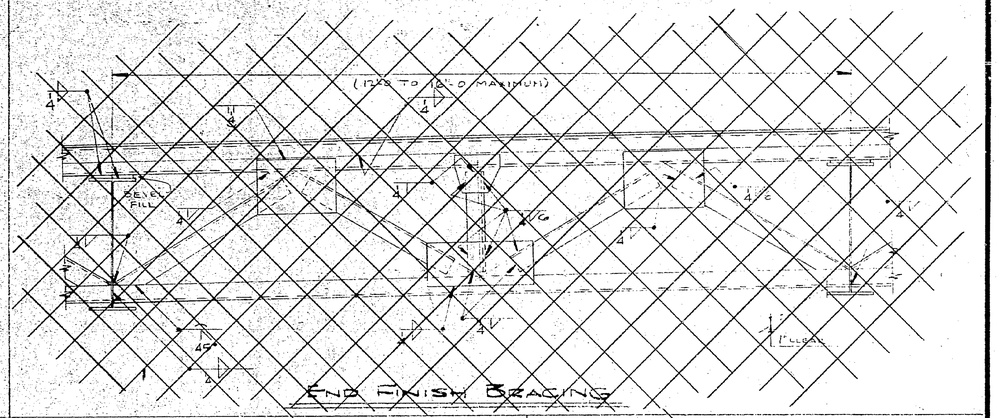
①



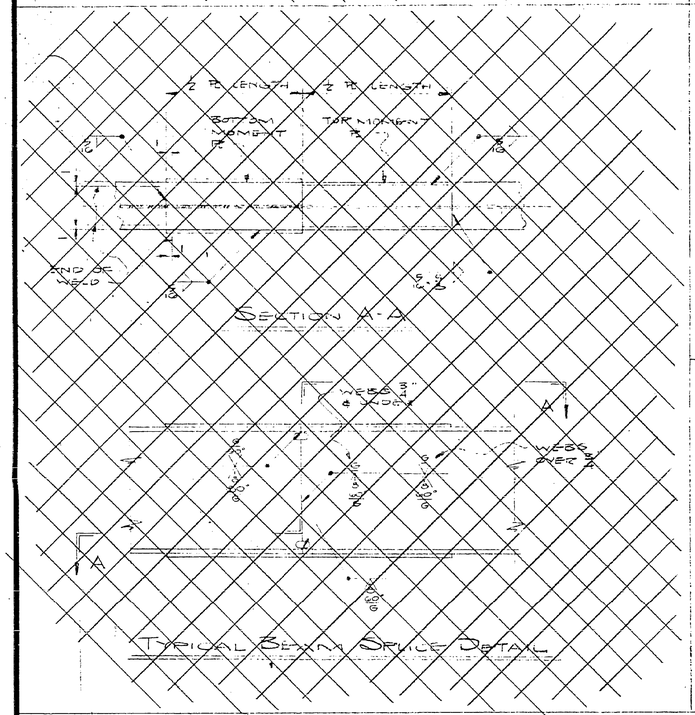

END FINISH BRACING



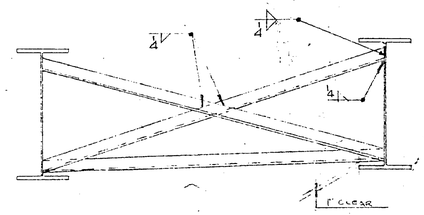

END FINISH BRACING



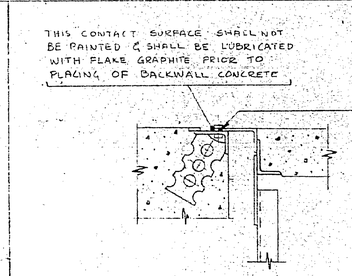

END FINISH BRACING




TYPICAL BEAM SPLICE DETAIL

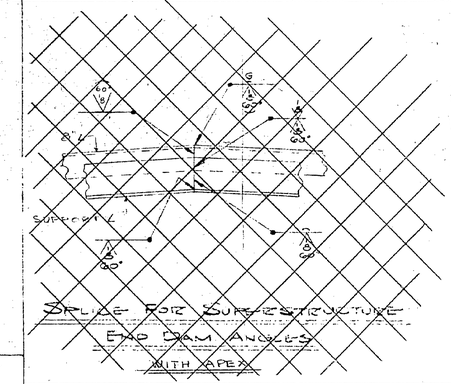



INTERMEDIATE BRACING

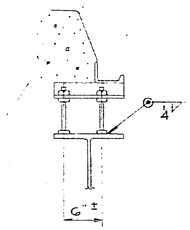



APPLY FLAKE GRAPHITE BETWEEN WASHERS & ANGLE. TURN BOLT TIGHT & RELEASE ONE HALF TURN. REMOVE BOLTS AS SOON AS CONCRETE HAS SET, PREFERABLY WITHIN 2 HOURS, FILL HOLES WITH BITUMINOUS MATERIAL

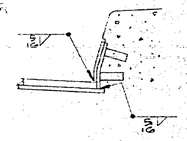
SECTION THRU END FINISH



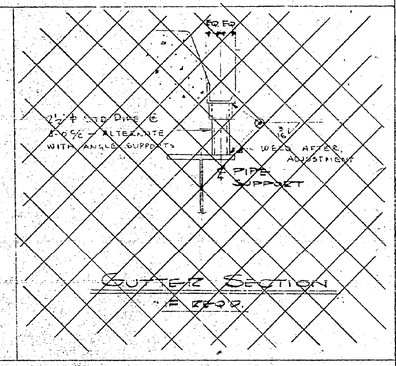

SPLICE FOR SUPERSTRUCTURE END DAM ANGLES WITH APEX



GUTTER SECTION IF REQ'D.



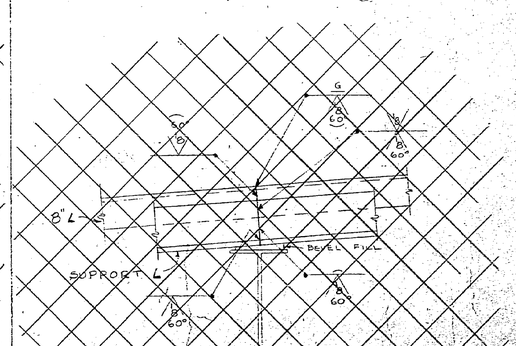
CURB PLATE DETAIL IF REQ'D.




GUTTER SECTION IF REQ'D.

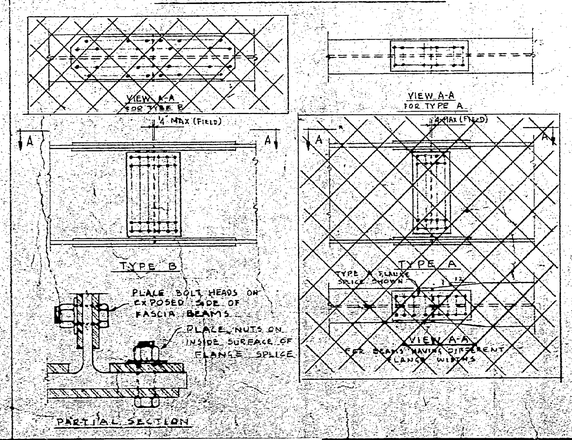
BEAM SPLICE WELDING PROCEDURE (FOR 3 SPANS)

1. RAISE THE ABUTMENT END OF BEAMS TABULATED AMOUNT (R).
2. BUTT WELD THE BEAM FLGS & WEB, USING THE FOLLOWING SEQUENCE: MAKE (TWO) (ONE) PASSES ON THE WEB, THEN (TWO) (ONE) ON EACH FLANGE; REPEAT, USING ONE PASS (OR TWO) AT EACH LOCATION UNTIL WELDS ARE COMPLETED.
3. WELD THE BOTTOM & TOP MOMENT PLS.
4. LOWER THE BEAM ENDS TO FINAL POSITION.




SPLICE FOR SUPERSTRUCTURE END DAM ANGLES WITHOUT APEX

BOLTED BEAM SPLICE




BUREAU OF BRIDGES

| | |
|---|---|
| C. H. Alexander, Engineer of Bridges | |
| APPROVED | 10/28/82 |
| APPROVED AS NOTED | |
| NOT APPROVED | |

for general conformance with design plans and specifications only. Does not relieve contractor from responsibility for errors or omissions.

FOR REFERENCE

REF. O.S.H.D. STD. DWGS. FOR STEEL BEAM BRIDGES

BRIDGE ERECTION DETAILS

OHIO STATE HIGHWAY DEPARTMENT

| DATE | NO. | REVISION | BY | CH. BY |
|---|---|---|---|---|
| 22 SEP 65 | 4 | ADD END DAM SPLICE WITHOUT APEX | S | |
| 12 AUG 65 | 1 | REV. TO COMPLY W/ OSHD STD. | S | FGL |

HOLES ____ UNLESS NOTED
SHOP CONNECTIONS
FIELD CONNECTIONS
ERECTION BY

FINISH UNLESS NOTED

| ISSUE FOR | NO. | DATE |
|---|---|---|
| BIDS | 3 | 8-2 |
| SHOP | 1 | 9-26-63 |
| OSHD | 2 | 9-26-63 |
| GENTRY | 3 | 9-9-63 |

The J. T. EDWARDS COMPANY
1241 McKINLEY AVENUE
COLUMBUS 22, OHIO

BRIDGE # 171-CR-25
WILSON Rd. OVER N.Y.C. R.R.
FRANKLIN COUNTY

WHITAKER - MERRELL CO.
CONTRACTOR

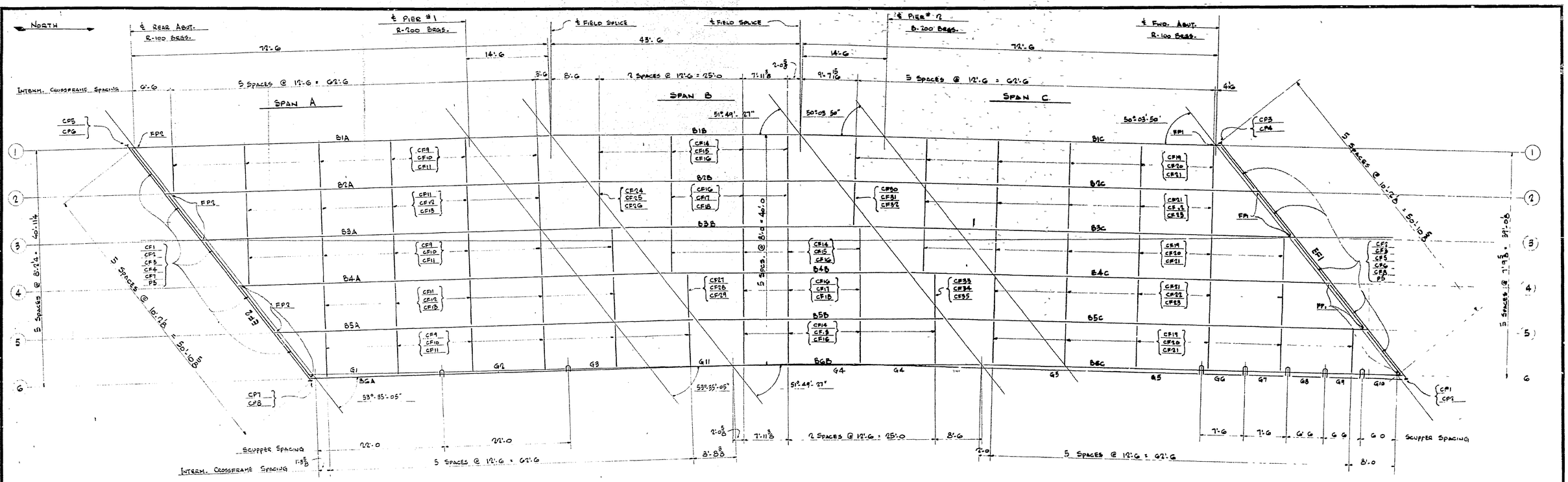
OHIO STATE HIGHWAY DEPARTMENT
ARCHITECT-ENGINEER

| CONTRACT NO. | DRAWN | CHECKED | APPROVED | SHEET OF |
|---|---|---|---|---|
| 20852 | JB JULY-66 | LC | OSHD 8-20-66 | A2E |

SUBSTANDARD DRAWING

This drawing does not meet minimum filming standards! MICRO-DATA does not accept responsibility for the inferior results due to the condition of this drawing.

5080 010 SHOT DWG. STR. STEEL 00063 1968 0170 0660




ERECTION PLAN

BUREAU OF BRIDGES
APPROVED
NOT APPROVED
ERECTION PLAN

FOR REFERENCE

| DATE | NO | REVISION | BY | CH BY |
|---|---|---|---|---|

HOLES ____ UNLESS NOTED
SHOP CONNECTIONS WELDED
FIELD CONNECTIONS WELDED & BOLTED
ERECTION BY OTHERS

FINISH UNLESS NOTED

| ISSUE | | |
|---|---|---|
| FOR | NO | DATE |
| APPR | 3 | 8-2 |
| S HOP | 1 | 2-11-66 |
| O.S.H.D | 2 | 4-6-65 |
| CONTR | 3 | 3-25 |

The J.T. EDWARDS COMPANY
1241 McKINLEY AVENUE
COLUMBUS OHIO 43222

BRIDGE # 171 - CR - 125
WILSON Rd. OVER N.Y.C. RR.
FRANKLIN COUNTY

WHITAKER MERRELL CO.
CONTRACTOR

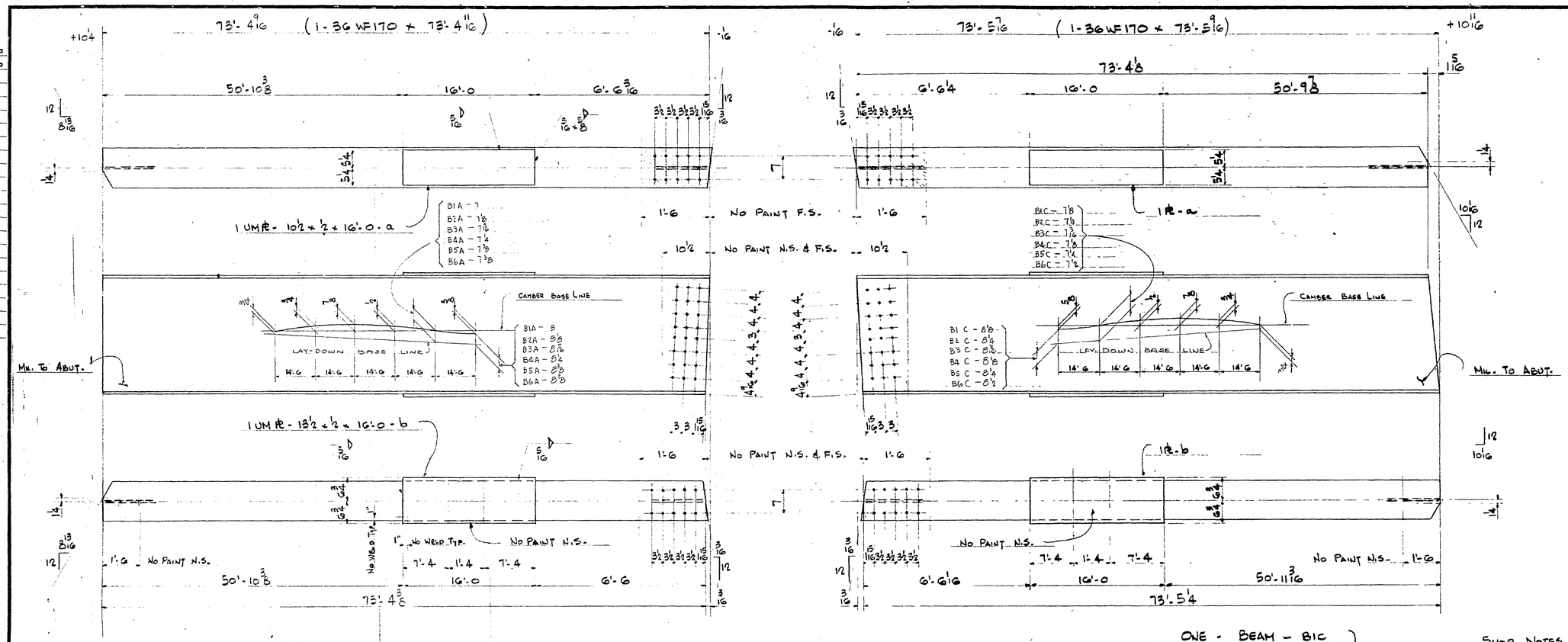
O.S.H.D. (BARRETT ASSOCIATED ENG.)
ARCHITECT-ENGINEER

| CONTRACT NO | DRAWN | CHECKED | APPROVED | A 3E OF |
|---|---|---|---|---|
| 20852 | JB JULY-66 | LC. | OSHD 8-20-66 | |

NOTE!
FOR ERECTION DETAILS SEE J.T.E. CO. DWG E2
FOR SPLICE PLATE LOCATION SEE J.T.E. CO. DWG. A10

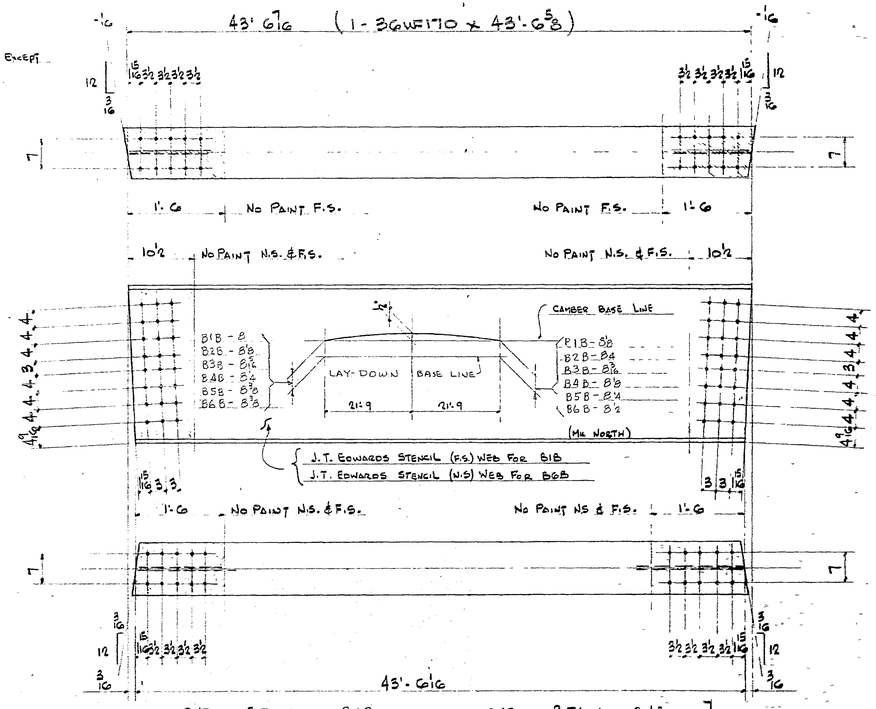
SUBSTANDARD DRAWING
This drawing does not meet minimum filming standards: MICRO-DATA does not accept responsibility for the inferior results due to the condition of this drawing.

5080 010 SHOP DWG. STR STEEL 0063 1968 0180 060

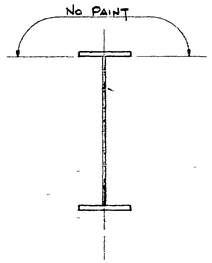



| | |
|---|---|
| ONE - BEAM - B1A | Beams Alike Except For Marks |
| ONE - do - B2A | |
| ONE - do - B3A | |
| ONE - do - B4A | |
| ONE - do - B5A | |
| ONE - do - B6A | |

| | |
|---|---|
| ONE - BEAM - B1C | Beams Alike Except For Marks |
| ONE - do - B2C | |
| ONE - do - B3C | |
| ONE - do - B4C | |
| ONE - do - B5C | |
| ONE - do - B6C | |




| | |
|---|---|
| ONE - BEAM - B1B | Beams Alike Except For Marks & Stencil Signs |
| ONE - do - B2B | |
| ONE - do - B3B | |
| ONE - BEAM - B4B | |
| ONE - do - B5B | |
| ONE - do - B6B | |




Typical All Beams

Shop Notes!

All Material A-36 Steel

All Material Ordered Except Moment Plates

All Moment Plate Welds To Be Magnetic Partical Inspected

Holes For Splices To Be Subpunched (13/16) ϕ And Reamed Assembled To (1 1/16) ϕ In Shop. Holes May Be Drilled Full Size If All Splice Plates Are Held In Place During Drilling. (Drill Thru Beam & Plates Together) Remove All Burrs

FOR REFERENCE

Beam Details

| Date | No | Revision | By | Ch By |
|---|---|---|---|---|

Holes As ~~Shown~~ Noted
Shop Connections Welded
Field Connections Welded & Bolted
Erection By Others

Finish Unless Noted
One Shop Coat 708 07
Brushed On

| Issue For | No. | Date |
|---|---|---|
| Appr | 3 | 8-2 |
| Shop | 3 | 8-22-66 |
| OSHD | 4 | 8-23 |
| Contr | 3 | 8-23 |

The J.T. Edwards Company
1241 McKinley Avenue
Columbus Ohio 43222

Bureau of Bridges
C. H. Abbott Engineer of Bridges
Approved 8-25-66
Approved As Noted
Not Approved
For general conformance with design plans and specifications only. Does not relieve contractor from responsibility for errors or omissions

Bridge # 171-CR-25
Wilson Rd. Over N.Y.C. RR.
Franklin County

Whitaker Merrell Co.
Contractor

O.S.H.D. (Barrett Associated Eng.)
Architect-Engineer

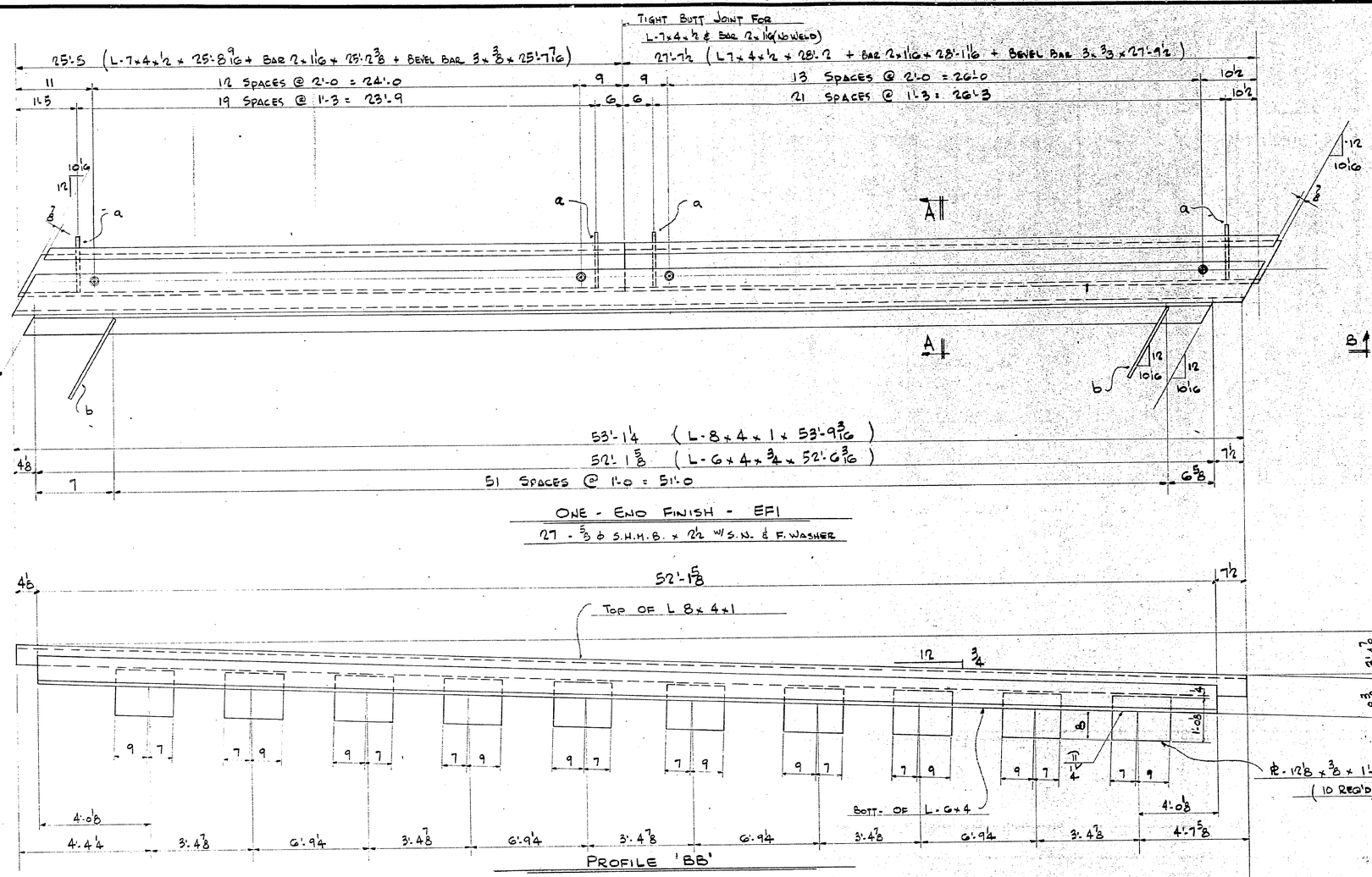
| Contract No | Drawn | Checked | Approved | A 4 of |
|---|---|---|---|---|
| 20852 | JB July-66 | L.C | OSHD 8-20-66 | |

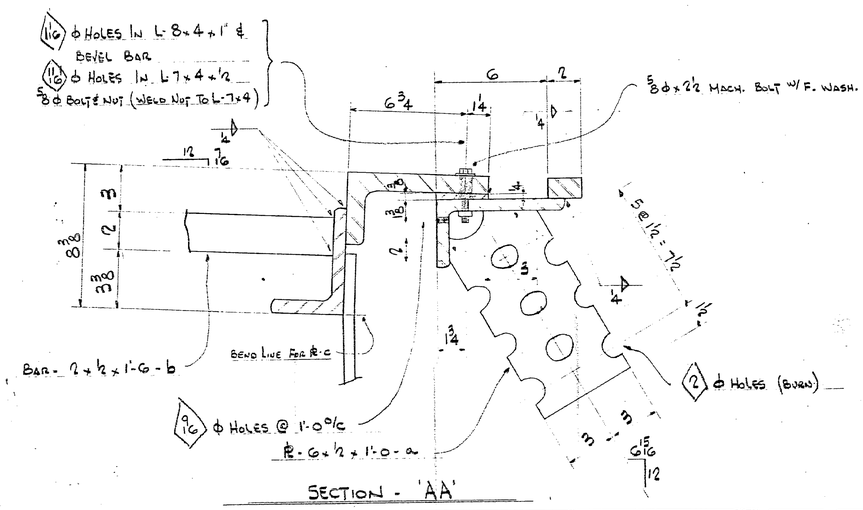
SUBSTANDARD DRAWING

This drawing does not meet minimum filming standards: MICRO-DATA does not accept responsibility for the inferior results due to the condition of this drawing.

MILLS CO.—10-5455—1500—6-65

0080 0/10 SHOP DWG STR. STEEL 0063 1/1968 0/190 060




SHOP NOTE!
ALL MATERIAL A36. 62T STEEL

BUREAU OF ... Engineer of Bridges ... APPROVED ... APPROVED AS NOTED ... NOT APPROVED ... for shop construction ... design plans and ... Does not remove contractor from responsibility for errors or omissions.

FOR REFERENCE

END FINISH

| DATE | NO. | REVISION | BY | CH. BY |
|---|---|---|---|---|

HOLES AS ~~1/16"~~ NOTED
SHOP CONNECTIONS WELDED & BOLTED
FIELD CONNECTIONS WELDED
ERECTION BY OTHERS

FINISH UNLESS NOTED
NO PAINT

| ISSUE FOR | NO. | DATE |
|---|---|---|
| APPR | 3 | 8-2 |
| SHOP | 3 | 8-16-66 |
| OSHD | 4 | 8-23 |
| CONTR | 3 | 8-23 |

The J.T. EDWARDS COMPANY
1241 McKINLEY AVENUE
COLUMBUS, OHIO 43222

BRIDGE # 171-CR-25
WILSON RD. OVER N.Y.C. R.R.
FRANKLIN COUNTY

WHITAKER MERRELL CO.
CONTRACTOR

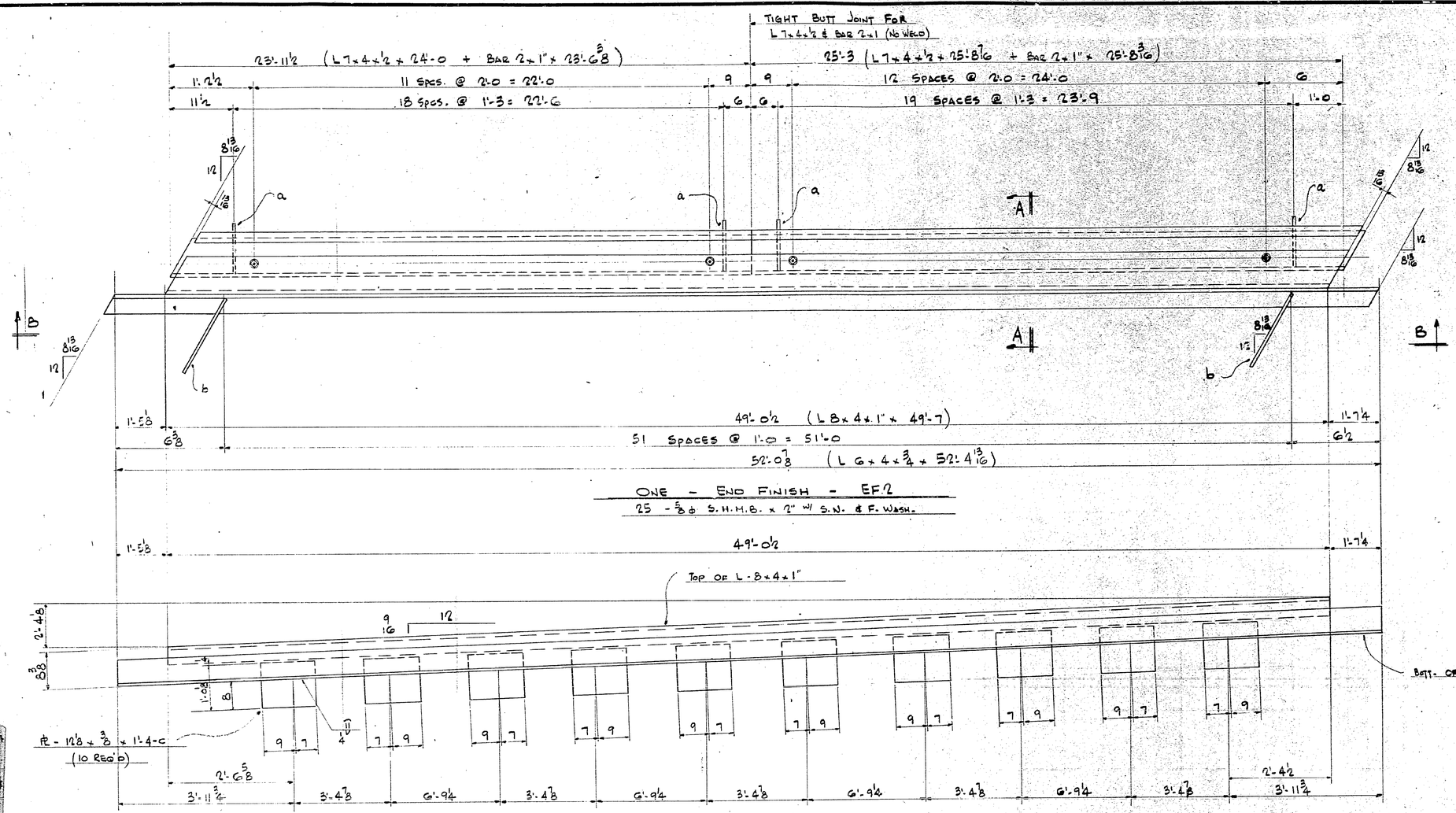
O.S.H.D. (BARRETT ASSOCIATED ENG.)
ARCHITECT-ENGINEER

| CONTRACT NO. | DRAWN | CHECKED | APPROVED | A 5 OF |
|---|---|---|---|---|
| 70852 | JB JULY-66 | LC | O.S.H.D. 8-20-66 | |

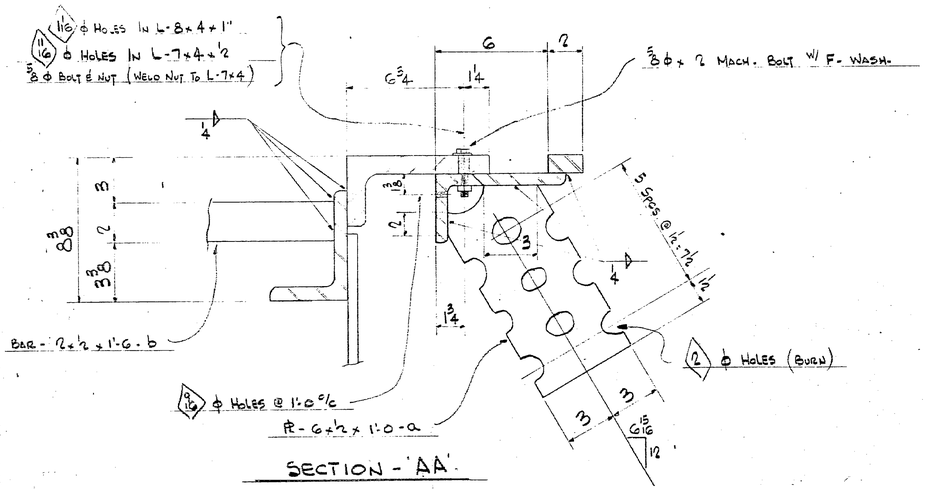
SUBSTANDARD DRAWING
This drawing does not meet minimum filming standards: MICRO-DATA does not accept responsibility for the inferior results due to the condition of this drawing.

5084 010 SHOP DWG. STR. STEEL 00063 1968 0200 060

HILLS CO.—10-5155—1500—5-65




PROFILE - 'BB'




SECTION - 'AA'

BUREAU OF BRIDGES
C. H. Alexander, Engineer of Bridges
APPROVED
APPROVED AS NOTED
NOT APPROVED
for general conformance with design plans and specifications only. Does not relieve contractor from responsibility for errors or omissions.

SHOP NOTES!

ALL MATERIAL A36-62T STEEL.

FOR REFERENCE

END FINISH

| DATE | NO. | REVISION | BY | CH. BY |
|---|---|---|---|---|

HOLES AS ____ NOTED
SHOP CONNECTIONS WELDED & BOLTED
FIELD CONNECTIONS WELDED
ERECTION BY OTHERS
FINISH UNLESS NOTED NO PAINT

| ISSUE FOR | NO. | DATE |
|---|---|---|
| AFAC | 3 | 8-2 |
| SHOP | 3 | 8-22-66 |
| OSHD | 4 | 8-23 |
| CONTR | 3 | 8-23 |

The J.T. EDWARDS COMPANY
1241 McKINLEY AVENUE
COLUMBUS, OHIO 43222

BRIDGE # 171 - CR - 25
WILSON Rd. OVER N.Y.C. R.R.
FRANKLIN COUNTY

WHITAKER MERRELL CO.
CONTRACTOR

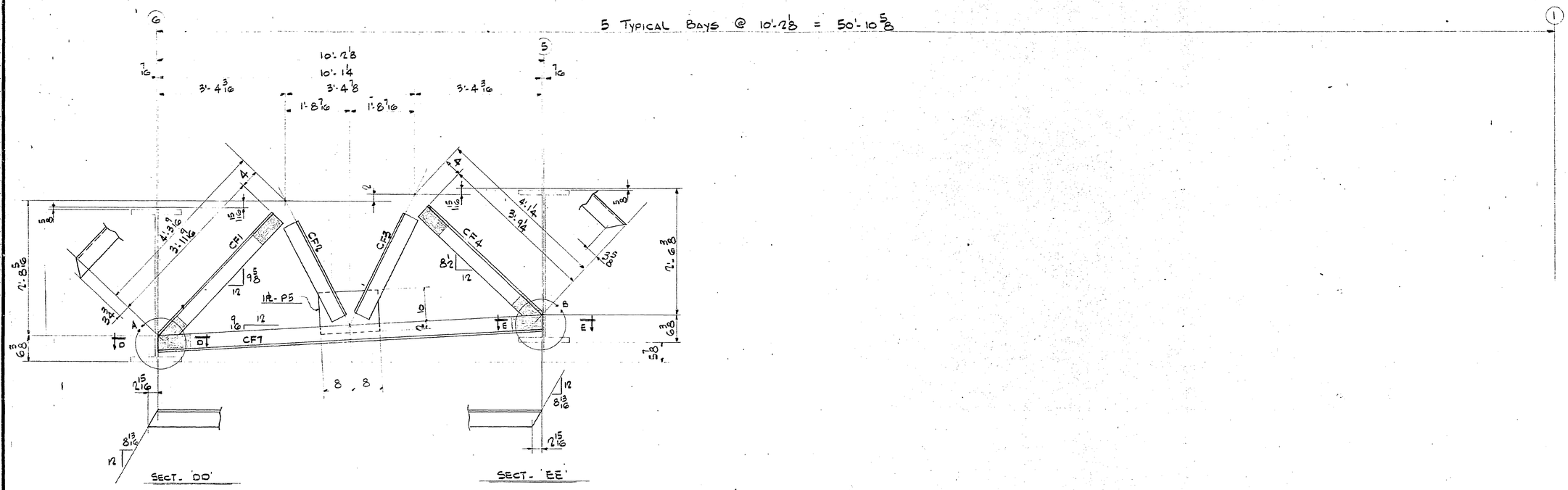
O.S.H.D. (BARRETT ASSOCIATED ENG.)
ARCHITECT-ENGINEER

| CONTRACT NO. | DRAWN | CHECKED | APPROVED | A G OF |
|---|---|---|---|---|
| 20852 | JB JULY-66 | LC | O.S.H.D. 8-26-66 | |

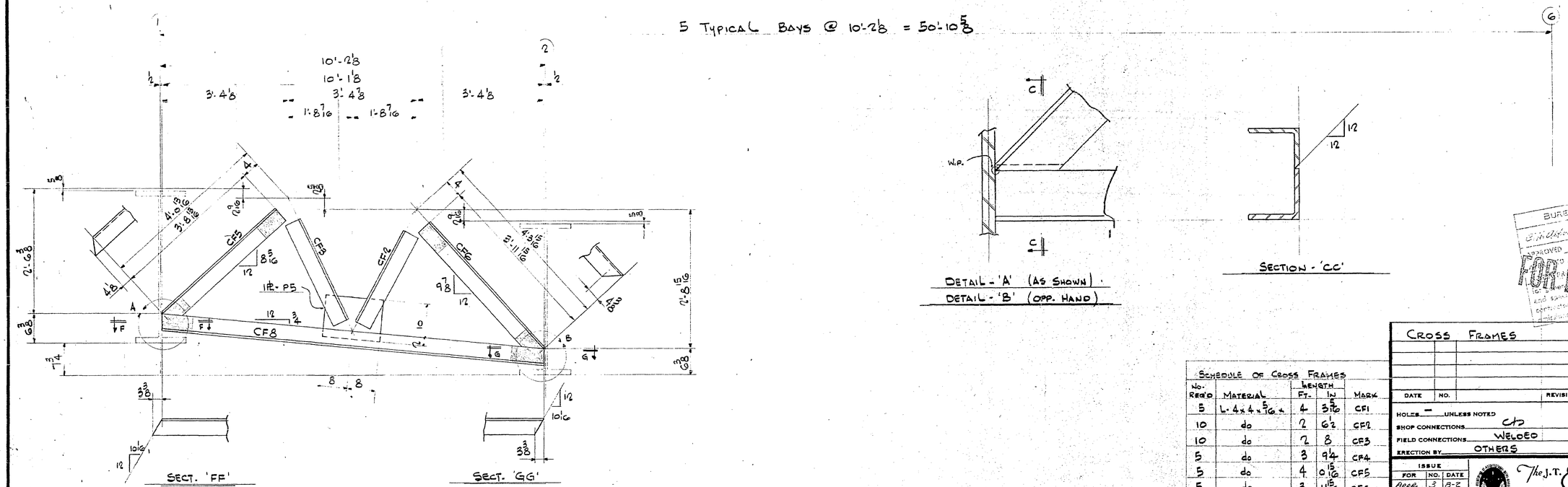
SUBSTANDARD DRAWING
This drawing does not meet minimum filming standards: MICRO-DATA does not accept responsibility for the inferior results due to the condition of this drawing.

5080 010 SHOP DWG. STR. STEEL 0063 19968 02/10 060

HILLS CO.—10-5955—1500—6-65




CROSS FRAMES @ REAR ABUTMENT (LOOKING SOUTH)




CROSS FRAMES @ FWD. ABUTMENT (LOOKING NORTH)




DETAIL - 'A' (AS SHOWN)
DETAIL - 'B' (OPP. HAND)



SECTION - 'CC'

BUREAU OF BRIDGES
APPROVED
FOR REFERENCE

SHOP NOTE!
NO PAINT WITHIN 8" OF END OF ANGLES (SHADED PART)
NO PAINT ON CF2-CF3 & PL-P5

ALL MATERIAL A-36

SCHEDULE OF CROSS FRAMES

| No. Req'd | Material | Length Ft. | Length In | Mark |
|---|---|---|---|---|
| 5 | L-4x4x5/16x | 4 | 3 5/16 | CF1 |
| 10 | do | 2 | 6½ | CF2 |
| 10 | do | 2 | 8 | CF3 |
| 5 | do | 3 | 9¼ | CF4 |
| 5 | do | 4 | 0 15/16 | CF5 |
| 5 | do | 3 | 11 15/16 | CF6 |
| 5 | do | 10 | 4½ | CF7 |
| 5 | L-4x4x5/16x | 10 | 4¾ | CF8 |
| 10 | PL-12x3/8x | 1 | 4 | P5 |

CROSS FRAMES

| DATE | NO. | REVISION | BY | CH. BY |
|---|---|---|---|---|

HOLES — UNLESS NOTED
SHOP CONNECTIONS CB
FIELD CONNECTIONS WELDED
ERECTION BY OTHERS

FINISH UNLESS NOTED
ONE SHOP COAT 708.07
BRUSHED ON

| ISSUE FOR | NO. | DATE |
|---|---|---|
| APPR. | 3 | 8-2 |
| SHOP | 3 | 8-25-66 |
| O.S.H.D. | 4 | 8-25 |
| CONTR. | 3 | 8-25 |

The J.T. EDWARDS COMPANY
1241 McKINLEY AVENUE
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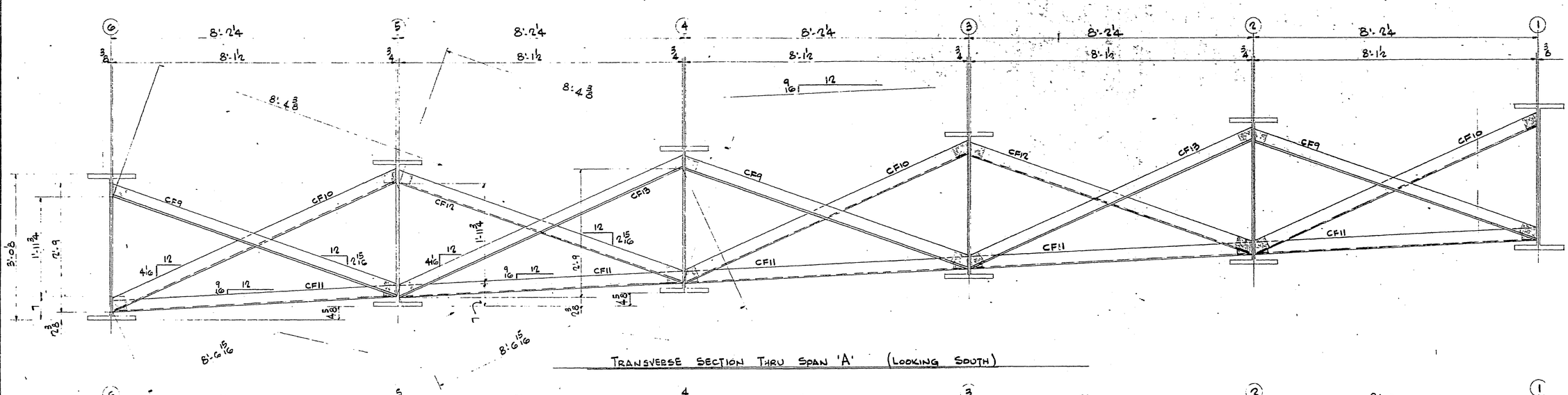
WHITAKER MERRELL Co.
CONTRACTOR

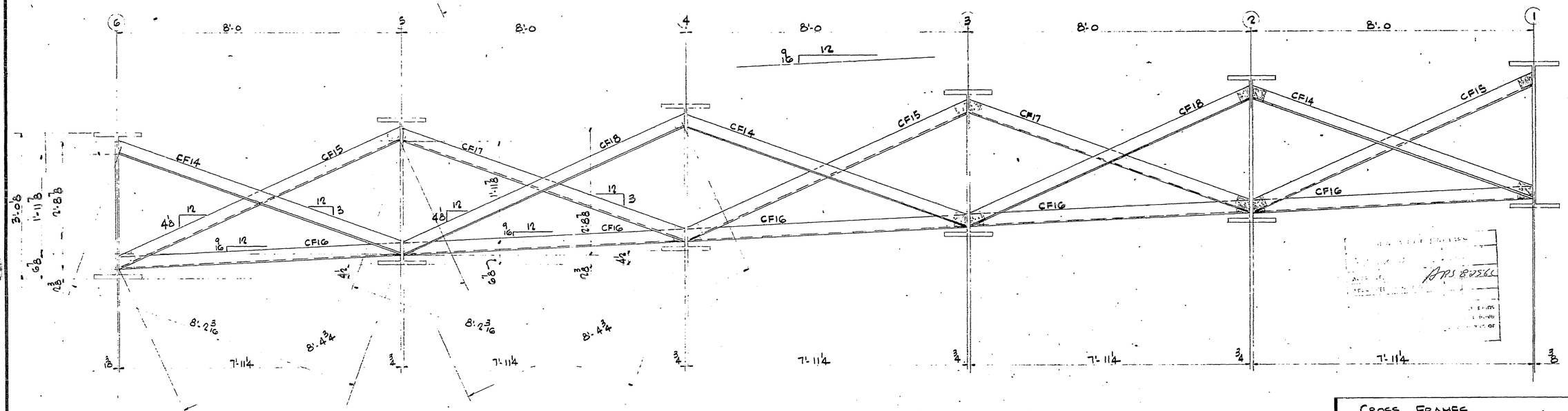
O.S.H.D. (BARRETT ASSOCIATED ENG.)
ARCHITECT-ENGINEER

| CONTRACT NO. | DRAWN | CHECKED | APPROVED | A 7 OF |
|---|---|---|---|---|
| 20852 | JB JULY-66 | L.C. | O.S.H.D. 8-20-66 | |

SUBSTANDARD DRAWING
This drawing does not meet minimum filming standards: MICRO-DATA does not accept responsibility for the inferior results due to the condition of this drawing.




TRANSVERSE SECTION THRU SPAN 'A' (LOOKING SOUTH)




TRANSVERSE SECTION THRU SPAN 'B' (LOOKING SOUTH)

SCHEDULE OF CROSS FRAMES

| No. REQ'D | DESCRIPTION | FT | IN | MARK |
|---|---|---|---|---|
| 18 | L 3 x 3 x 5/16 x | 8 | 5⅜ | CF9 |
| 18 | do | 8 | 7 15/16 | CF10 |
| 28 | do | 8 | 1¾ | CF11 |
| 10 | do | 8 | 5⅜ | CF12 |
| 10 | do | 8 | 7 15/16 | CF13 |
| 12 | do | 8 | 2 15/16 | CF14 |
| 12 | do | 8 | 5 13/16 | CF15 |
| 18 | do | 7 | 11½ | CF16 |
| 6 | do | 8 | 2 15/16 | CF17 |
| 6 | L 3 x 3 x 5/16 x | 8 | 5 13/16 | CF18 |

SHOP NOTE!
NO PAINT WITHIN 2" OF END OF ANGLES (SHADED AREA)
ALL MATERIAL A-36 STEEL

CROSS FRAMES

FOR REFERENCE

| DATE | NO. | REVISION | BY | CH. BY |
|---|---|---|---|---|

HOLES ____ UNLESS NOTED
SHOP CONNECTIONS cb
FIELD CONNECTIONS WELDED
ERECTION BY OTHERS

FINISH UNLESS NOTED
ONE SHOP COAT 708.07
BRUSHED ON

| ISSUE FOR | NO. | DATE |
|---|---|---|
| APPD | 3 | 8-2 |
| SHOP | 3 | 8-11-66 |
| OSHD | 4 | 8-25 |
| CONTR | 3 | 8-25 |

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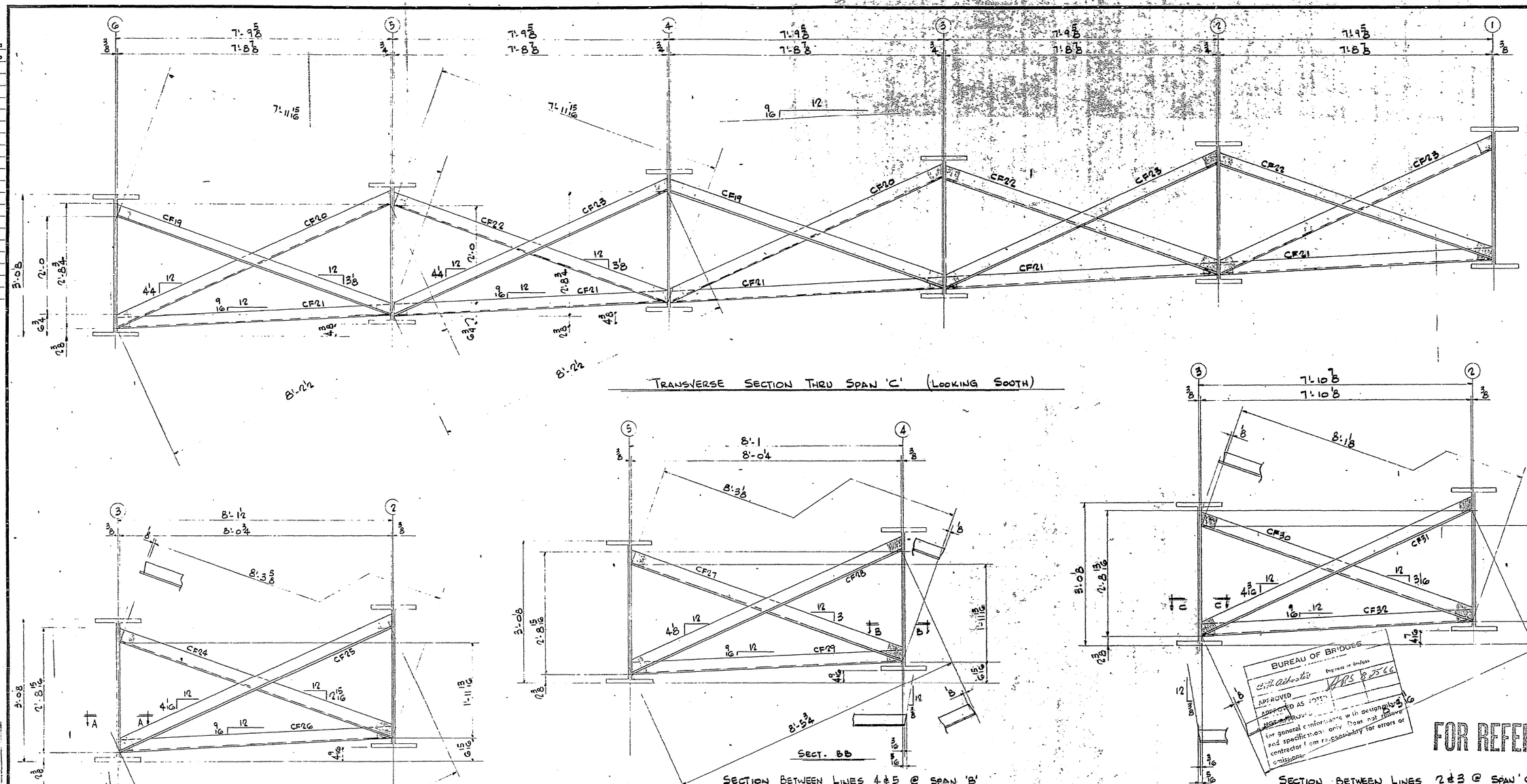
FRANKLIN COUNTY
WHITAKER - MERRELL CO.
CONTRACTOR
O.S.H.D. (BARRETT ASSOCIATES ENG)
ARCHITECT-ENGINEER

| CONTRACT NO. | DRAWN | CHECKED | APPROVED | A 8 OF |
|---|---|---|---|---|
| 20858 | JB JULY-65 | LC | O.S.H.D. 8-20-66 | |

SUBSTANDARD DRAWING
This drawing does not meet minimum filming standards! MICRO-DATA does not accept responsibility for the inferior results due to the condition of this drawing.

HILLS CO.—10-5155—1500—6-65

50080 0110 SHOP DWG.STR.STEEL 0063 1968 0230 060




SHOP NOTE!
NO PAINT WITHIN 2" OF END OF ANGLES (SHADED AREA)
ALL MATERIAL A-36

SCHEDULE OF CROSSFRAMES

| No. req'd. | Description | Ft. | In. | Mark |
|---|---|---|---|---|
| 18 | L. 3 x 3 x 5/16 x | 8 | 0 3/4 | CF 19 |
| 18 | do | 8 | 3 1/16 | CF 20 |
| 28 | do | 7 | 9 1/8 | CF 21 |
| 10 | do | 8 | 0 3/4 | CF 22 |
| 10 | do | 8 | 3 1/16 | CF 23 |
| ONE | do | 8 | 4 3/8 | CF 24 |
| ONE | do | 8 | 7 3/16 | CF 25 |
| ONE | do | 8 | 1 5/16 | CF 26 |
| ONE | do | 8 | 4 | CF 27 |
| ONE | do | 8 | 6 13/16 | CF 28 |
| ONE | do | 8 | 0 11/16 | CF 29 |
| ONE | do | 8 | 1 1/8 | CF 30 |
| ONE | do | 8 | 4 3/4 | CF 31 |
| ONE | do | 7 | 10 11/16 | CF 32 |
| ONE | do | 8 | 1 5/8 | CF 33 |
| ONE | do | 8 | 4 3/8 | CF 34 |
| ONE | L. 3 x 3 x 5/16 x | 7 | 10 3/16 | CF 35 |

CROSS FRAMES

| DATE | NO. | REVISION | BY | CH. BY |
|---|---|---|---|---|

HOLES ____ UNLESS NOTED
SHOP CONNECTIONS CP
FIELD CONNECTIONS WELDED
ERECTION BY OTHERS
FINISH UNLESS NOTED ONE SHOP COAT 708.07
BRUSHED ON

| ISSUE FOR | NO. | DATE |
|---|---|---|
| APPR | 3 | 8-2 |
| SHOP | 3 | 8-24 |
| OSHD | 4 | 9-13 |
| CONTR | 3 | 8-25 |

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ARCHITECT-ENGINEER

| CONTRACT NO. | DRAWN | CHECKED | APPROVED | A9 OF |
|---|---|---|---|---|
| 20852 | JB 7-14-66 | LC | OSHD 8-26-66 | |

SUBSTANDARD DRAWING
This drawing does not meet minimum filming standards! MICRO-DATA does not accept responsibility for the inferior results due to the condition of this drawing.

5080 0110 SHOP DWG-STR-STEEL 0063 1968 0240 060