FRANKLIN COUNTY ENGINEERING DEPARTMENT
WINCHESTER PIKE BRIDGE
OVER BLACKLICK CREEK
MAD-376-3.27
MADISON TOWNSHIP
COUNTY ROAD 376

1991 SPECIFICATIONS
The standard specifications of the State of Ohio, Department of Transportation, including changes and supplemental specifications listed in this proposal, shall govern this Improvement.

I hereby approve these plans and declare that the making of this improvement will require the closing of the highway to traffic and that detours will be provided as indicated on the plans.

FOR FRANKLIN COUNTY

Chief Projects Engineer Date

County Auditor Date

We the Commissioners of Franklin County, hereby approve these plans and declare that the right of way as shown on the plan is available for construction, maintenance and repair of the road.

County Commissioner Date

County Commissioner Date

Design Classifications
Rural Minor Arterial

Plan Prepared By:
FRANKLIN CONSULTANTS INC.
2989 EAST GRANVILLE ROAD
COLUMBUS, OHIO 43231

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5116 | TITLE SHEET | 3.27 | 1991 | 0910 | 060
TYPICAL SECTION
TYPE 611

APPROACH SLAB
STA.264+00.62 TO STA.264+100.22 = 100.00 LF
STA.264+122.12 TO STA.264+212.12 = 100.00 LF
TOTAL = 200.00 LF

LEGEND
1. ITEM 611 REINFORCED CONCRETE APPROACH SLAB (5"x12")
2. ITEM 203 SUBGRADE COMPACTION
3. ITEM 304 6" AGGREGATE BASE, AS PER PLAN
4. ITEM 608 GUARDRAIL, TYPE 5
5. ITEM 610 SEEDING & WULCHING
6. ITEM 605 AGGREGATE DRAINS

NOTES
1. TYPICAL SECTIONS ARE INTENDED TO SHOW GENERAL ROADWAY AND PAVEMENT FEATURES ONLY. FOR FURTHER DETAILS SEE REMAINING PLAN & PROFILES AND CROSS SECTIONS.
2. SLOPE CONDITIONS AND GUARDRAIL LOCATIONS ARE GENERAL AND DO NOT NECESSARILY CORRESPOND TO THE LIMITING STATIONS SHOWN ON THE TYPICAL.
GENERAL NOTES

FIELD OFFICE
The contractor shall provide a type A field office having a minimum of 150 sq. ft. of floor space which shall be in accordance with OSHA. Payment shall be included in the lump sum price bid for item 616 field office, type A. Ketodone heaters shall not be used as a source of heat. The field office shall be in place and all utilities hooked up before work begins.

ROUNDING OF CORNERS SHOW ON CROSS SECTIONS
The rounded corners shown on the typewritten sections, apply to all cross sections even though otherwise shown on these plans.

UNDERGROUND UTILITIES
The locations of the underground utilities shown on the plans are as obtained from the owners of the utility as required by section 155.54 ORC.

UTILITY OWNERSHIP
The following utilities and owners are located within the work limits of this project:

- OHIO BELL TELEPHONE
  150 EAST 5TH STREET
  COLUMBUS, OH 43215
  PHONE: (614)223-7570

- COLUMBUS SOUTHERN POWER CO.
  215 N. FRONT STREET
  COLUMBUS, OH 43215
  PHONE: (614)484-7398

- CITY OF COLUMBUS
  DIVISION OF WATER
  910 DUBLIN ROAD
  COLUMBUS, OH 43215
  PHONE: (614)645-7788

CONTINGENCY QUANTITIES
The contractor shall not order materials or perform work listed in the general summary for items designated by plan note to be used as directed by the engineer unless authorized by the engineer.

LOCATION OF GUARDRAIL
The locations of guardrail runs, as shown in these plans, are subject to adjustment prior to final acceptance. The engineer shall be satisfied that all installations will afford maximum protection for traffic.

DUST CONTROL
A quantity of calcium chloride and water is provided for dust control as directed by the engineer.

ITEM 616 CALCIUM CHLORIDE ........ 1 TONS
ITEM 616 WATER .................. 5 M GALS

WATERING PERMANENT SEEDED AREAS
The following estimated quantities are to be used as directed by the engineer to promote growth and to keep the permanent seeded areas as per 659-09:

ITEM 659 WATER ............... 1 M GAL

TEMPORARY SOIL EROSION AND SEDIMENT CONTROL
The following estimated quantities are to be used as directed by the engineer for temporary erosion and sediment control measures:

ITEM 207 STRAW OR HAY BALES ............ 50 EACH
ITEM 207 TEMPORARY SLEEVING AND WULCHING ... 30 YD
ITEM 207 REPAIR SEEDING AND MULCHING ....... 30 YD
ITEM 207 COMMERCIAL FERTILIZER .......... 0.01 TON
ITEM 509 WATER .................. 1 M GAL

ITEM 304 AGGREGATE BASE, AS PER PLAN
Materials furnished for this item shall exclude all slag except granulated slag or crushed air-cooled blast furnace slag.

EROSION CONTROL
ITEM 601, IS PROVIDED IN THE PLANS FOR EROSION CONTROL. ROCK OF A STABLE NATURE WILL NOT BE REMOVED IN ORDER TO PLACE THIS ITEM. THE ENGINEER SHALL CHECK AND NON-PERFORM QUANTITIES OR ADJUST LOCATIONS AND QUANTITIES FOR THIS ITEM WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION.

SEEDING
Quantities for seeding are calculated for the soil areas between ten (10) feet outside the work limits, as shown on the cross sections, or to the right-of-way line, if such line is less than ten (10) feet from the work limits.

CLEARING AND GRUBBING
Although there are no trees and/or stumps specifically marked for removal within the limits of this project, a lump sum quantity has been included in the general summary for item 701. Clearing and grubbing, all provisions as set forth in the specifications under this item shall be followed and all costs shall be included in the lump sum price bid for item 701, clearing and grubbing.

PAVEMENT QUANTITIES
The following estimated quantities have been added to the general summary to be used as directed by the engineer for any emergency to pavement areas between the proposed approach slab and the existing pavement.

ITEM 404 ASPHALT CONCRETE, AC-20 ........ 1 CY
ITEM 402 ASPHALT CONCRETE, AC-20 ........ 1 CY
ITEM 301 BITUMINOUS AGGREGATE BASE, AC-20 ...... 2 CY

CALCULATIONS
ITEM 611 REINFORCED CONCRETE APPROACH SLAB
A = (40 X 20 X 2) / 9
TOTAL ITEM 611 TO GENERAL SUMMARY = 177.76 SY
ITEM 304 AGGREGATE BASE, PER PLAN
V = (42 X 20 X 0.5 X 20) / 27
TOTAL ITEM 304 TO GENERAL SUMMARY = 31.1 CY
ITEM 203 SUBGRADE COMPACTION
A = (40 X 20 X 2) / 9
TOTAL ITEM 203 TO GENERAL SUMMARY = 177.76 SY
ITEM 659 COMMERCIAL FERTILIZER
V = (223 X 9 X 20) / (2000 X 1000)
TOTAL ITEM 659 TO GENERAL SUMMARY = 0.02 TONS
ITEM 658 TO GENERAL SUMMARY = 0.02 TONS
MAINTENANCE OF TRAFFIC


THE CONTRACTOR WILL BE REQUIRED TO PROVIDE, ERECT, MAINTAIN (IN PROPER POSITION, CLEAN, LEGIBLE AND IN GOOD WORKING CONDITION) AND REMOVE ALL SIGNS, SIGN SUPPORTS, BARRIACADES, DRUMS AND ALL OTHER TRAFFIC CONTROL DEVICES NECESSARY FOR THE MAINTENANCE OF TRAFFIC.

THE COST OF PROVIDING, INSTALLING, MAINTAINING AND REMOVING ALL TRAFFIC CONTROL DEVICES REQUIRED TO MAINTAIN TRAFFIC DURING CONSTRUCTION INCLUDING SIGNS, SIGN SUPPORTS, DRUMS AND BARRIACADES SHALL BE INCLUDED IN THE LUMP SUM PRICE PER ITEM 614, "MAINTAINING TRAFFIC".

ITEM 614 MAINTAINING TRAFFIC

BEFORE WORK IS STARTED ON THIS PROJECT, THE CONTRACTOR SHALL SUBMIT A WRITTEN SCHEDULE OF OPERATIONS AND A TRAFFIC MAINTENANCE CONTROL PLAN FOR APPROVAL BY THE ENGINEER. IN NO CASE SHALL THE STIPULATIONS OF THIS NOTE WAIVE THE REQUIREMENTS OF EITHER THE CONSTRUCTION AND MATERIAL SPECIFICATIONS OR THE CURRENT EDITION OF THE OHIO MANUAL OF UNIFORM CONTROL DEVICES.

NO WORK SHALL BE STARTED THAT WILL CLOSE THE ROADWAY TO TRAFFIC UNLESS ITIS THE INTENT OF THE CONTRACTOR TO WORK FULL TIME WITH A FULL FORCE IN ORDER TO COMPLETE THE WORK WITH NO UNNECESSARY DELAYS.

THE CONTRACTOR SHALL PLAN TO CLOSE THE ROAD FOR NO LONGER THAN 120 CALENDAR DAYS. IF THE CONTRACTOR SO ELECTS, HE MAY SUBMIT AN ALTERNATE METHOD FOR THE MAINTENANCE OF TRAFFIC PROVIDED THAT THE ABOVE PROVISIONS ARE FOLLOWED AND NO LONGER INCUMBENT. THE TRAVELING PUBLIC RESULTS THEREFROM NO ALTERNATE PLAN SHALL BE PLACED INTO EFFECT UNTIL APPROVAL HAS BEEN GRANTED, IN WRITING, BY THE FRANKLIN COUNTY ENGINEER'S OFFICE.

LIGHTS AND SIGNS AT ADJACENT ROAD INTERSECTIONS

THE CONTRACTOR SHALL, IN ADDITION TO GENERAL REQUIREMENTS OF ITEM 614 ON THIS PROJECT, PROVIDE, ERECT AND MAINTAIN ALL SIGNS SHOWN ON THE DETOUR MAP.

THE CONTRACTOR CAN NOTIFY THE COUNTY ENGINEER'S TRAFFIC DEPARTMENT AT 610-5003 TWO WEEKS PRIOR TO CLOSING ROADWAY. THIS WOULD BE ADEQUATE TIME TO NOTIFY THE PROPER AUTHORITIES, MAKE PRESS RELEASE AND PLACE NOTICE SIGNS ON ROADWAY. ALL TEMPORARY SIGNS TO BE ERECTED BY THE CONTRACTOR SHALL BE PICKED UP AT THE ENGINEER'S OFFICE, 970 DUBLIN ROAD, COLUMBUS, OHIO 43215. A DEPOSIT WILL BE REQUIRED TO PICK UP SIGNS.

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For structure quantities see Sheet 9
GENERAL NOTES

REFERENCE SHALL BE MADE TO STANDARD DRAWINGS:

AS-1-81
DBB-2-73
EA-4-87
SA-1-69

TO SUPPLEMENTAL SPECIFICATIONS:

AS-8
DBB-1-85
EA-1-87
SA-1-88

DESIGN SPECIFICATIONS:

DESIGN DATA: BRIDGE COMPUTATIONS ARE BASED ON SERVICE LOAD DESIGN.

DESIGN LOADING:

HSD-44 AND THE ALTERNATE MILITARY LOADING.

DESIGN STRESSES:

CONCRETE CLASS C - UNIT STRESS 1500 P.S.I. (SUPERSTRUCTURE)

CONCRETE C - UNIT STRESS 1350 P.S.I. (SUBSTRUCTURE)

STRUCTURE STEEL ASBM - UNIT STRESS 27,000 P.S.I.

REINFORCING STEEL - ASTM A615, A616 or A617

DECK PROTECTION METHOD:

EPoxy COATED REINFORCING STEEL AND SEALING OF CONCRETE SURFACES

AND ALL ITEM 811, CLASS G CONCRETE SUPERSTRUCTURE USING TYPE K EXPANSIVE HYDRATION CEMENT AND SHALL HAVE 10% MICRO-SILICA BY WEIGHT OF CEMENT, SEE PROOF NOTE.

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1" THICK.

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PHOTOGRAPHS AND/OR FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHOULD BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CWS SECTIONS 102.05, 105.02 AND 513.02.

CONTRACT BID PRICES SHALL BE BASED UPON A RECONSTRUCTION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PRIOR EXAMINATION OF THE EXISTING STRUCTURE BY THE CONTRACTOR. HOWEVER, ALL PROJECT WORK SHALL BE BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD.

CONCRETE REMOVAL SHALL BE BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNTED CHISEL TOOLS. HYDRAULIC HAMMERS WILL NOT BE PERMITTED. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18-INCHES OF THE OLD BEAM AND 10 INCHES OF THE REBUILT BEAM. THE HAMMER MUST BE SAWED TO A LENGTH OF ONLY 7-1/2" LONG. ONE-HALF INCH (1/2") DEEP, REMOVE CONCRETE TO A SMOOTH SURFACE, WHERE PRACTICABLE, AT LEAST ONE FOOT (1'-0") LENGTH OF PROTRUSING REINFORCEMENT STEEL SHALL BE LEFT IN PLACE. INSTALL DOWEL BARS AS SPECIFIED, PRIOR TO CONCRETE PLACEMENT, SANDBLAST SURFACE AND EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTREGATED CONCRETE AND LOSE RUST. THEN, THE JOINT SURFACE AND EXPOSED REINFORCEMENT SHALL BE THOROUGHLY CLEANED OF ALL DIRT, DUST, OR OTHER FOREIGN MATERIALS BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHOD THAT PRODUCES RESULTS SATISFACTORY TO THE ENGINEER. THE CONCRETE SURFACING SURFACE SHALL BE WET WITHOUT FREE WATER AS CONCRETE IS PLACED.

UTILITY LINES:

UTILITY LINES INVOLVED IN REPLACING OR INSTALLING THE AFFECTED UTILITY LINES SHALL BE BORNE BY THE OWNERS. THE CONTRACTOR AND OWNERS ARE REQUESTED TO COORDINATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

THE CONTRACTOR SHALL BE CAREFUL TO PREVENT DEBRIS FROM ENTERING THE STREAM AND NO EQUIPMENT FORDS IN THE STREAM WILL BE PERMITTED.

ITEM 811, CLASS G CONCRETE, SUPERSTRUCTURE CONCRETE SHALL BE CURED BY 511.14 METHOD (A) WATER CURING.

CONCRETE SEALING OF PIERS SHALL BE APPLIED BEFORE STRUCTURAL STEEL IS ERECTED.

EQUIPPED CONCRETE EXAMPLE.

EQUIPPED CONCRETE EXAMPLE.

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<th>D</th>
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</tbody>
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BAR MARKS FOR EPOXY COATED BARS BEGIN WITH THE PIER NO.
ALL DIMENSIONS SHOWN ARE OUT TO OUT.

**Franklin Consultants, Inc.**

10750 Northside Drive

Atlanta, GA 30328

(404) 252-2121

(C) 2001

**Franklin County**

Bridge No. MAD-376-0327

Winchester Pike Over Blacklick Creek

Franklin Co.

Hidden Metal

11/10  019  009  009

Franklin County

MAD-376-0327