

CO. RD 174
HOCKING CO

By: GKS 6-1-72
Ch. By: JMS 6-9-72

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	ABUT.	PIERS	GEN.
202 ✓	Lump ✓	Sum ✓	Structure Removed				LUMP
403	22	C.Y.	Asphalt Concrete (70-85, or AC-20)	22			
404	10	C.Y.	Asphalt Concrete (70-85, or AC-20)	10			
505	Lump	Sum	Test Pile				Lump.
503	81	C.Y.	Unclassified Excavation		81		
507	840	L.F.	14" ϕ Reinforced Concrete Piles (Cast in place)		350	490	
509	6676	lbs.	Reinforcing steel		4067	2609	
510	72	Ea.	Dowel Holes		24	48	
511	5	C.Y.	Class C Concrete - Superstructure	5			
511	22	C.Y.	Class C Concrete - Pier Caps			22	
511	41	C.Y.	Class C Concrete - Abutments		41		
512	544	S.Y.	Type B Waterproofing, Modified	535			9
515	18	Ea.	Prestressed Concrete Bridge Members	18			
516	45	S.F.	1" Thick Elastomeric Bearing Pads Grade 50		15	30	
516	38	S.F.	1" Preformed Expansion Joint Filler		1	37	
517	338	L.F.	Railing (Single deep beam rail with steel posts & bolts)	338			
518	17	C.Y.	Porous Backfill		17		
601	299	C.Y.	Dumped Rockfill, Type A				299 ✓ OK

REFERENCE SHALL BE MADE TO THE FOLLOWING:

STANDARD DRAWINGS:

- PSBD-1-71, DATED 9-1-71
- DBR-1-71, DATED 1-1-71
- AS-1-67, REVISED 6-12-69

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS, 1969, INCLUDING THE OHIO "SUPPLEMENT" TO THESE SPECIFICATIONS.

DESIGN DATA:

- DESIGN LOADING: - HS 20-44
- PRESTRESS BOX BEAM CONCRETE: - SEE SHEET 6 OF 7
- CONCRETE CLASS C: - UNIT STRESS 1200 P.S.I. FOR SUPERSTRUCTURE
- UNIT STRESS 1333 P.S.I. FOR SUBSTRUCTURE

PRESTRESSING STRANDS: - SEE SHEET 6 OF 7

REINFORCING STEEL: ASTM A615, A616, OR A617 UNIT STRESS 20,000 P.S.I. (IF BARS IN ACCORDANCE WITH ASTM A616 ARE PROVIDED THEY SHALL BE SUBJECT TO BEND TESTS AS PER AASHTO DESIGNATION M42-70).

REMOVAL OF EXISTING STRUCTURE: WHEN NO LONGER NEEDED TO MAINTAIN TRAFFIC, THE EXISTING STRUCTURE SHALL BE REMOVED. SEE "GENERAL NOTES" SHEET 3 OF 21

EMBANKMENT CONSTRUCTION: EMBANKMENT SHALL BE CONSTRUCTED TO THE LEVEL OF SUBGRADE FOR A MINIMUM DISTANCE OF 200 FEET BACK OF THE ABUTMENTS. EXCAVATION SHALL THEN BE MADE FOR ABUTMENTS.

NON-SHRINKING MORTAR SHALL BE MADE WITH PORTLAND CEMENT AND AN APPROVED ADDITIVE OR WITH AN APPROVED PROPRIETARY PRODUCT.

GALVANIZING: ALL ANCHOR BOLTS, STUDS, INSERTS, TIE RODS, NUTS AND WASHERS SHALL BE GALVANIZED PER 711.02.

ASPHALT CONCRETE SURFACE COURSE: SHALL CONSIST OF A VARIABLE THICKNESS OF 403 AND A 1-1/4" THICKNESS OF 404. THE 403 SHALL BE PLACED IN TWO OPERATIONS. THE FIRST COURSE SHALL BE OF 1 1/4" UNIFORM THICKNESS. THE SECOND COURSE SHALL BE FEATHERED TO PLACE THE SURFACE PARALLEL TO AND 1 1/4" BELOW FINAL PAVEMENT SURFACE ELEVATION.

PILES: SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 35 TONS PER PILE FOR THE ABUTMENTS AND 40 TONS PER PILE FOR THE PIERS.

PILE CASINGS: THE CASINGS OF CAST-IN-PLACE CONCRETE PILES SHALL BE OF THE TYPE THAT IS LEFT IN PLACE AND IS DESIGNED TO RESIST BOTH DIRECT COMPRESSION AND BENDING. THE PORTION ABOVE THE PROPOSED SURFACE OF THE GROUND SHALL BE OF UNIFORM DIAMETER (NOT TAPERED) AND SHALL HAVE A THICKNESS OF METAL NOT LESS THAN 0.179 INCHES.

TYPE "B" WATERPROOFING MODIFIED SHALL BE IN ACCORDANCE WITH SECTION 512 OF THE "CONSTRUCTION AND MATERIAL SPECIFICATIONS," EXCEPT AS MODIFIED. AFTER THE DECK IS PRIMED ALL JOINTS AND IRREGULARITIES IN THE BEAMS SHALL BE FILLED WITH ASPHALT CEMENT SEC 702.01 (70-85). BEFORE THE FIRST MOPPING, AN EXTRA PLY OF FABRIC SHALL BE LAID OVER THE JOINTS BETWEEN THE BEAMS AND BETWEEN THE APPROACH SLAB AND THE BEAMS EXTENDING AT LEAST 9" ON EACH SIDE OF THE JOINTS. THE MEMBRANE SHALL THEN BE MOPPED ON TOP OF THIS EXTRA PLY ALLOWING THE UNDERSIDE TO REMAIN LOOSE WHICH ALLOWS FOR MOVEMENT IN THE JOINT. PLACING OF WATERPROOFING SHALL BEGIN AT THE EDGE OF THE DECK AND SHALL PROGRESS TOWARD THE CENTER. ASPHALT CONCRETE PAVING OPERATIONS SHALL BE CARRIED OUT IN A MANNER THAT WILL NOT DISPLACE OR OTHERWISE DAMAGE THE COMPLETED WATERPROOFING.

AUBLE-MITCHELL-BURGESS & ASSOC. 2/7
ENGINEERS AND ARCHITECTS
CINCINNATI, OHIO

ESTIMATED QUANTITIES
& GENERAL NOTES
CO. RD. 174 (RELOCATED) OVER
SALT CREEK

STA. 10 + 17.00

HOCKING CO. TO STA. 11 + 86.03

Designed	Drawn	Traced	Checked	Reviewed	Date	Revised
D.R.	J.H.	GKS	FAM.	7-12-72		