

GENERAL SUMMARY

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

8
8

LAK. 2- 13.73
LAK. 44 - 5.88
LAKE COUNTY.

ESTIMATED QUANTITIES			
Item	Quantity	Unit	Description
Spec.	1140	lin.ft.	18" asbestos-cement pressure pipe Class 150 Transite with "Ringtite" couplings, or approved equal, for new brine lines, as per plan.
Spec.	16	each	18" Adaptors, for asbestos cement pressure pipe Class 150 "Transite" with "Ringtite" couplings, or approved equal for new brine lines, as per plan.
Spec.	8	each	18" Castiron bends, 22 1/2 degree, Class 150, Clow catalogue No. F-935, or approved equal with accessories for new brine lines, as per plan.
Spec.	1140	lin.ft.	18" Seamless steel pipe, 3/8 inch wall ASTM A-53, Grade B for new water lines, as per plan.
Spec.	8	each	18" Seamless steel pipe bends, 22 1/2 degrees, 3/8 inch wall ASTM A-53 Grade B, for new water lines, as per plan.
Spec.	2500	lin.ft.	18" Steel pipe, 3/8 inch wall for by-pass lines including specials and temporary release valves, as per plan.
I-8	4	each	Standard No. 1. Manholes, as per plan.
Spec.	4	each	18" Insulating flange assemblies, as per plan.
Spec.	203	each	3"x1/4" steel anchor straps as per plan.
E-2	7595	cuyd.	Excavation for structures, as per plan.
S-1	1218	cuyd.	Concrete for structures, Class 'C'.
S-4	188,420	lbs.	Reinforcing steel.
S-23	459	each	Dowel holes.
I-8	4	each	Access Manholes, as per plan.
Spec.	72	cuyd.	Concrete block masonry, as per plan.
E-12	2500	lin.ft.	18" pipe removed.

BY-PASS LINES

The attention of the Contractor is directed to the fact that while the permanent installation proposed by this project will be paid for on a unit price basis, as detailed, the price bid per lin. ft. for by-pass pipe installations includes payment for component parts such as bends, adaptors, connecting pieces, welding flanges, anchor blocks, and temporary air release valves.

ITEM I-8 - STANDARD No. 1. MANHOLES, AS PER PLAN.

The unit price bid for this item shall include furnishing and placing the air release valve and accessories as detailed on the plans, including service clamps, pipe couplings, ells, nipples, tar coatings, the 2" gate valve, and necessary connections to the brine line.

ITEM SPECIAL INSULATING FLANGE ASSEMBLIES, AS PER PLAN.

This item shall consist of furnishing and placing insulating flange assemblies as detailed on the plans. All work on this item unless otherwise specified, shall be in accordance with Item S-25. The actual number of assemblies in place, completed and accepted, shall be paid for at the contract unit price bid per each for "Item Special" Insulating Flange Assemblies, as per plan, which price and payment shall constitute full compensation for furnishing and placing the units and for all other materials, labor, equipment, tools and incidentals necessary to complete this item.

ITEM SPECIAL 3"x1/4" STEEL ANCHOR STRAPS AS PER PLAN.

The actual number of anchor straps in place, completed and accepted, shall be paid for at the contract unit price bid per each for Item Special, 3"x1/4" Steel Anchor Straps as per plan, which price and payment shall constitute full compensation for furnishing and placing the straps, including anchor bolts and nuts, felt wrapping, coal tar pitch paint, and bitumastic plastic cement, and all other materials, labor, equipment, tools and incidentals necessary, to complete this item.

ITEM I-8-ACCESS MANHOLES, AS PER PLAN.

This Item shall consist of constructing access manholes at each end of the proposed box culverts. The unit price bid for this item shall include furnishing and placing the manholes as detailed, including manhole frame and hinged cover, brick, concrete block, water proof plastering and manhole steps in the culvert walls below the manhole itself shall also be included for payment. in the unit price bid for this item.

ITEM SPECIAL- CONCRETE BLOCK MASONRY, AS PER PLAN.

This Item shall consist of concrete block masonry meeting the material requirements of Sec. I-8.02 placed in accordance with the requirements of Sec. I-8.05. In addition thereto, the concrete masonry walls shall be plastered on both sides with waterproof cement mortar as detailed on the plans.

The actual number of cubic yards of concrete block masonry in place, completed and accepted, shall be paid for at the contract unit price bid per cubic yard for "Item Special, Concrete Block Masonry, as per plan," which price and payment shall constitute full compensation for furnishing, and preparing all materials, placing and finishing, and for all labor, equipment, tools, and incidentals necessary to complete this item.

REMOVAL OF EXISTING WATER AND BRINE LINES

Payment for removal and disposal of existing water and brine lines after temporary by-pass lines are installed shall be included in the unit price bid for Item E-2 Excavation for Structures.

TRADE NAMES

Throughout this plan and the proposal wherever reference is made to a particular trade or brand name for materials to be furnished, an approved equivalent may be substituted for the trade name mentioned.