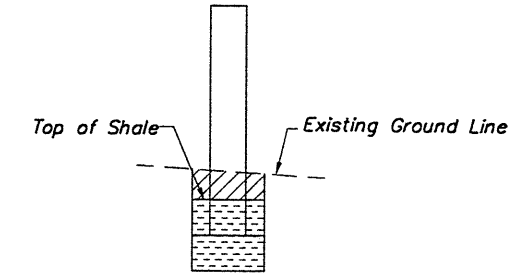


CALC. BY: J.A.S. CHECKED BY J.P.R.
 DATE: 12/27/99 DATE: 12/30/99

ESTIMATED QUANTITIES

ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	GENERAL	ABUT.	PIER	SUPER.	AS PER PLAN REFERENCE SHEET NO.
503	11100	Lump Sum		Cofferdams, Cribbs and Sheeting	Lump				
503	21301	Lump Sum		Unclassified Excavation, As Per Plan	Lump				2/16
503	31120	61	Cu.Yd.	Shale Excavation			61		
503	41101	8	Cu.Yd.	Backfill, As Per Plan			8		2/16, 8/16, 9/16
505	11100	Lump Sum		Pile Driving Equipment Mobilization	Lump				
507	00100	315	Lin.Ft.	Steel Piles HP10x42, Furnished		315			
507	00150	315	Lin.Ft.	Steel Piles HP10x42, Driven		315			
507	50500	9 ▲	Each	Steel Pile Splices		9 ▲			
511	31500	191	Cu.Yd.	Class S Concrete, Superstructure				191	
511	40500	165	Cu.Yd.	Class C Concrete, Pier Above Footings			165		
511	44101	38	Cu.Yd.	Class C Concrete, Abutment Not Including Footing, As Per Plan		38			5/16, 6/16
511	46500	87	Cu.Yd.	Class C Concrete, Footing		44	43		
SPECIAL	51267500	66	Sq.Yd.	Sealing Of Concrete Surfaces (See Proposal Note)				66	
SPECIAL	51267510	91	Sq.Yd.	Sealing Of Concrete Surfaces (Epoxy-Urethane) (See Proposal Note)		43		48	
516	44001	6	Each	Elastomeric Bearing With Internal Laminates And Load Plate, As Per Plan (8"x14"x1" Neoprene)				6	
516	44000	6	Each	Elastomeric Bearing With Internal Laminates And Load Plate (9"x14"x1" Neoprene)				6	
517	72200	250	Lin.Ft.	Railing (Deep Beam Rail With Steel Tubular Backup and Type 1 Steel Posts and Anchor Bolts)				250	
518	21200	50	Cu.Yd.	Porous Backfill With Filter Fabric		50			
SPECIAL	51822300	266	Lin.Ft.	Steel Drip Strip				266	
518	40000	130	Lin.Ft.	6" Perforated Corrugated Plastic Pipe		130			
518	40010	44	Lin.Ft.	6" Non-Perforated Corrugated Plastic Pipe, Including Specials		44			
601	34401	480*	Cu.Yd.	Rock Channel Protection, Grouted in Place, As Per Plan (Type A With Filter)		480*			2/16
863	10001	Lump Sum		Structural Steel Members, Miscellaneous Level Fabrication, A709, Grade 36, As Per Plan			Lump		8/16, 9/16
863	10240	66,450	Pound	Structural Steel Members, Level Two (2) Fabrication, A709, Grade 50W				66,450	
863	20000	1,452	Each	Welded Stud Shear Connectors				1,452	
863	50000	24	Each	Structural Steel, Misc.: 1" Dia. Bolts				24	



PIER EXCAVATION DIAGRAM
(Not To Scale)

LEGEND:

- Indicates Area Included With Item 503-
Unclassified Excavation, As Per Plan.
- Indicates Area Included With Item 503-
Shale Excavation.

NOTES:

1. Epoxy Coated Reinforcing Steel, Grade 60 Shall be Incidental in the Price Bid for Structural Concrete.
2. ▲ - Indicates To Be Used as Directed By the Engineer.
3. * - Includes 96 Cu.Yd. Contingency To Be Used As Directed By the Engineer.

H:\CT\97260\CAD\97260B27.DWG PLOT SCALE 1:48

CT Consultants, Inc.
 Engineers - Architects - Planners
 1000 Main Street, Suite 200, Wallingford, CT 06495
 Telephone: (203) 261-1111 Fax: (203) 261-1112

DATE: 12/30/99
 REVIEWED: J.E.A.
 DRAWN: I.A.S.
 DESIGNED: I.A.S.
 ESTIMATED QUANTITIES
 KIRTLAND-CHARDON ROAD BRIDGE
 OVER EAST BRANCH CHAGRIN RIVER
 LAK-615-0.00

STRUCTURE FILE NUMBER
 REVISED: R.L.B.
 CHECKED: J.P.R.

4 / 16
 62 / 95