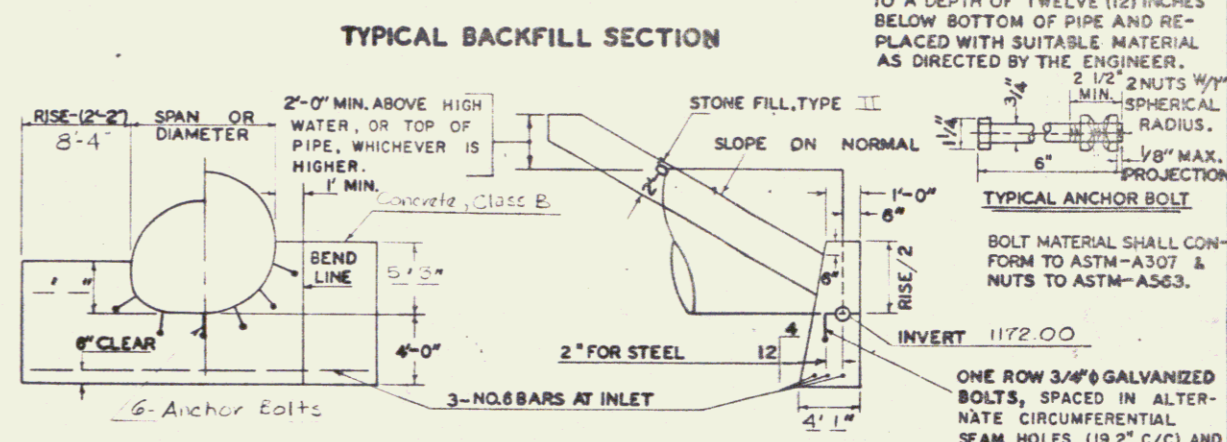
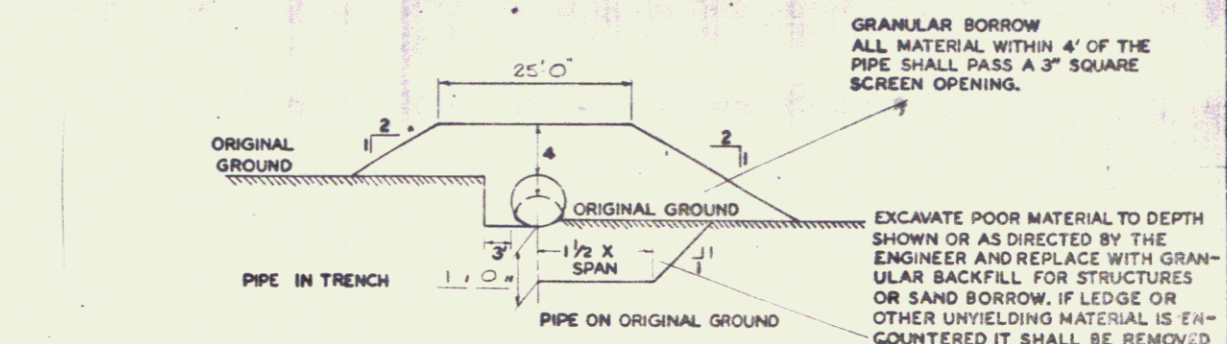


DETAILS OF STRUCTURAL PLATE PIPE CULVERTS

PIPE DATA:	STEEL	ALUMINUM	HYDRAULIC DATA
CORRUGATIONS	6" x 2"	6" x 2"	
DIAMETER OF PIPE	12.6"	12.6"	
PIPE ARCH	N/A	N/A	
PLATE THICKNESS	109 (COATED) THICKNESS	105	
BOLT SIZE	3/4"	3/4"	
WT. LIN. FT.	217 lbs.	172.3 lbs.	
TOTAL WEIGHT	22,573 lbs.	1938 lbs. (24)	

- NOTES
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION DATED JAN. 1972 AND THE A.A.S.H.O. STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES DATED 1973 AND ITS LATEST REVISIONS. DESIGN IS FOR HS-20 LIVE LOADING.
  - UNLESS OTHERWISE INDICATED FOUR (4) BOLTS PER LINEAR FOOT FOR STEEL PLATES AND FIVE AND ONE THIRD (5 1/3) BOLTS FOR ALUMINUM PLATES ARE REQUIRED ALONG THE LONGITUDINAL SEAMS. ALL CONNECTIONS FOR STRUCTURAL PLATE SECTIONS SHALL BE MADE WITH GALVANIZED ASTM A-325 BOLTS (AASHTO M164).
  - WHEN NORMAL CONSTRUCTION OR REGULAR ROADWAY TRAFFIC IS MAINTAINED OVER THE PIPE THE CONTRACTOR SHALL MAINTAIN A MINIMUM COVER OF 4 FEET OF COMPACTED MATERIAL.
  - ALUMINUM PIPE THAT IS TO BE IN CONTACT WITH CONCRETE SHALL HAVE CONTACT SURFACES THOROUGHLY COATED WITH ZINC CHROMATE, OR BITUMINOUS, OR ASPHALTIC PAINT.
  - PIPES SHALL BE FACTORY ELONGATED 5% (PIPE ARCHES SHALL NOT BE ELONGATED).

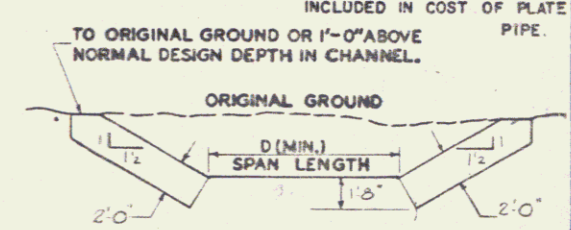


REINFORCING STEEL SCHEDULE

NO.	PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C
1	3	0	27.3'	1A01		12'	15'	30'

ESTIMATED QUANTITIES

NO.	ITEM	UNIT	TOTAL	FINAL
203.07	Unclassified Channel Excavation	cy	60	
203.34	Granular Borrow	cy	1700	
204.25	Structural Excavation	cy	150	
204.35	Granular Backfill for Structures	cy	70	
306.19	Overhaul (Est 9' x 20')	sq/mi	620	
501.29	Concrete Class B	cy	22	
507.15	Reinforcing Steel	lb.	130	



STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS

TOWN OF BELVIDERE Bridge No. \_\_\_\_\_  
 Highway No. VT 109 Log Sta. \_\_\_\_\_  
 VT 109 OVER OTTER BROOK  
 126 x 104 CGMPP (109) W/CHS INLET  
 Designed by DW NEWTON Drawn by DW NEWTON  
 Checked by E.O. BETE date 4-76 Bridge Design Supervisor  
 PROJECT BELVIDERE PROJECT NO. 6023  
 Bridge Sheet No. 3 of 51 SHEETS