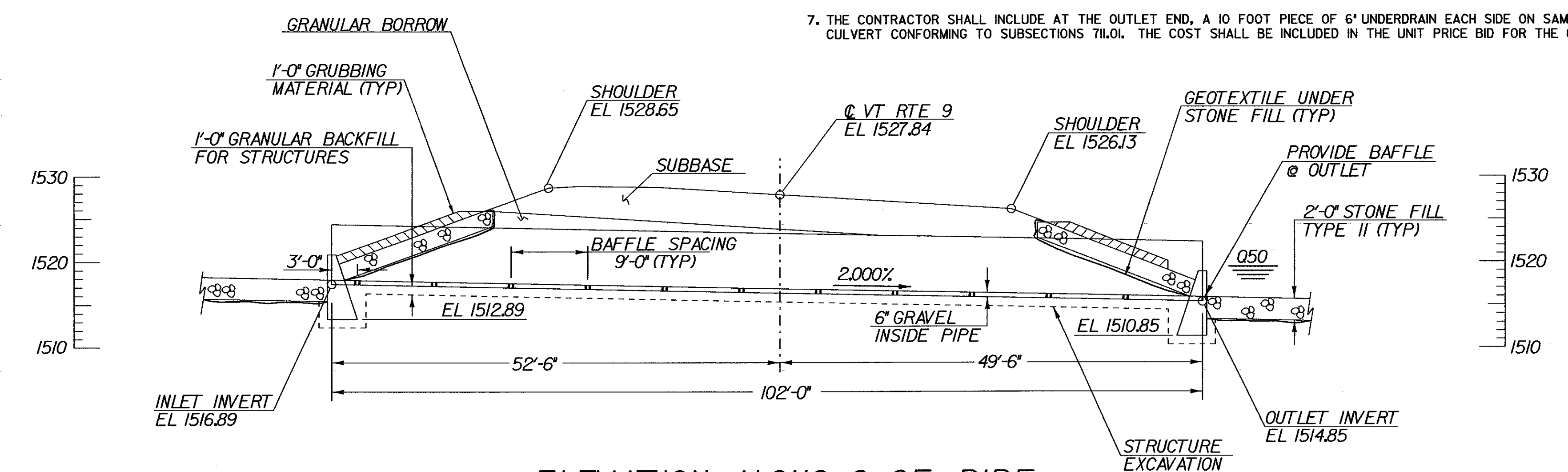
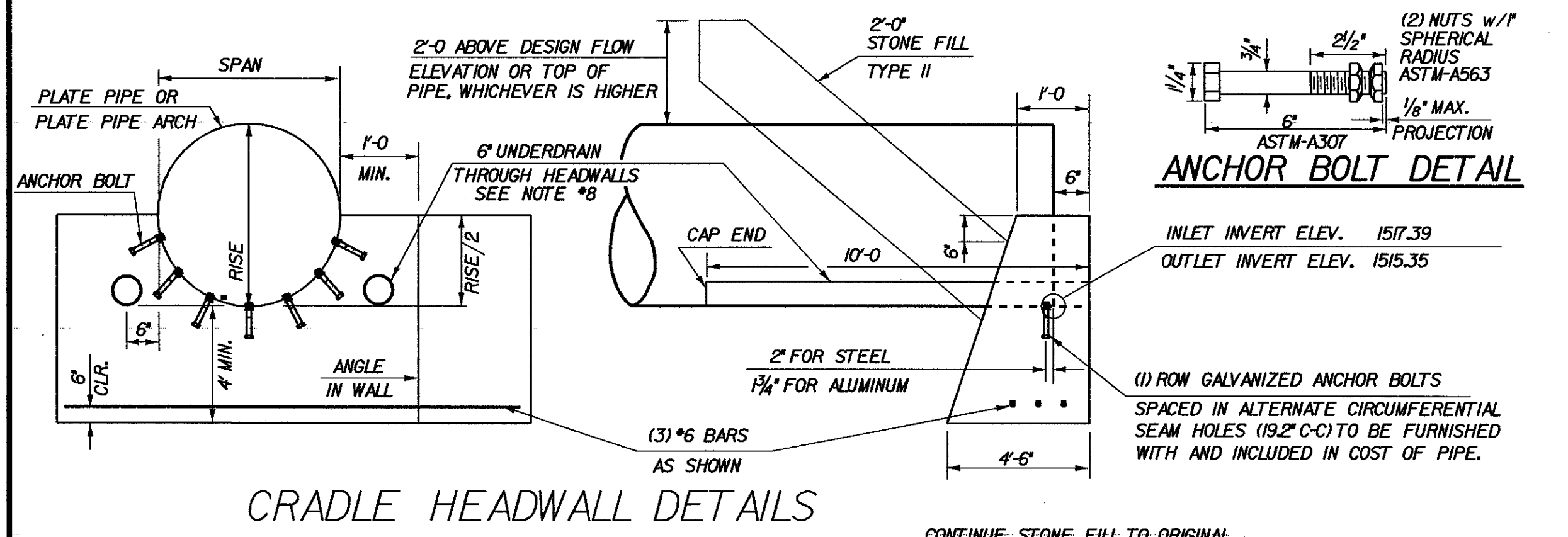


- ~ NOTES ~
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1990, AND THE LATEST A.A.S.H.T.O. STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES. DESIGN IS FOR HS-25 LIVE LOAD.
 - UNLESS OTHERWISE INDICATED, 5 1/3 BOLTS PER LINEAR FOOT FOR ALUMINUM PLATES ARE REQUIRED ALONG THE LONGITUDINAL SEAMS. ALL CONNECTIONS FOR STRUCTURAL PLATE SECTIONS SHALL BE MADE WITH BOLTS MEETING ASTM A-449 (GALVANIZED AFTER FABRICATION).
 - WHEN NORMAL CONSTRUCTION OR REGULAR TRAFFIC IS MAINTAINED OVER THE PIPE THE CONTRACTOR SHALL MAINTAIN A MINIMUM COVER OF THREE (3) FEET OF COMPACTED MATERIAL.
 - ALUMINUM PIPE WHICH IS TO BE IN CONTACT WITH CONCRETE SHALL HAVE CONTACT SURFACES THOROUGHLY COATED WITH BITUMINOUS OR ASPHALTIC PAINT.
 - PIPES SHALL BE FACTORY ELONGATED 5% (PIPE ARCHES SHALL NOT BE ELONGATED).
 - THE ENDS OF THE PIPE SHALL BE CUT SQUARE.
 - THE CONTRACTOR SHALL INCLUDE AT THE OUTLET END, A 10 FOOT PIECE OF 6" UNDERDRAIN EACH SIDE ON SAME GRADIENT AS CULVERT CONFORMING TO SUBSECTIONS 710.01. THE COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CULVERT PIPE.

EXCAVATION AND BACKFILL DETAILS



ELEVATION ALONG C OF PIPE



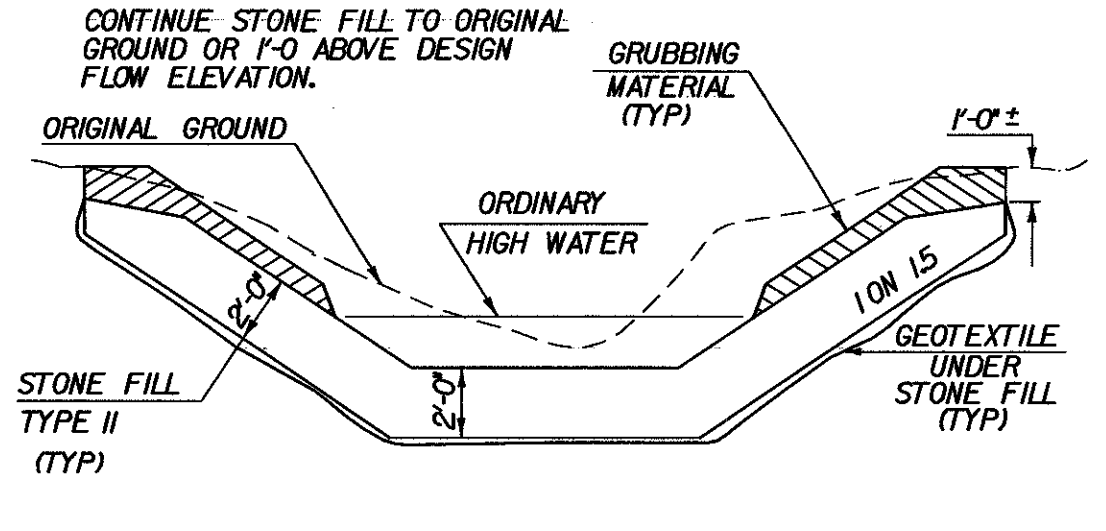
CRADLE HEADWALL DETAILS

REINFORCING STEEL SCHEDULE

NO.	PCS.	SIZE	LENGTH	MARK	TYPE	A	B
6	6	23'-9"	1H601	8	17'-0"	5'-9"	

ESTIMATED QUANTITIES

NO.	ITEM	UNIT	TOTAL	FINAL
203.27	Unclassified Channel Excavation	cy	120	
203.32	Granular Borrow	cy	230	
204.25	Structure Excavation	cy	315	
204.30	Granular Backfill for Structures	cy	95	
501.25	Concrete, Class B	cy	32	
507.15	Reinforcing Steel	lb	215	
511.30	CAAPPA - Sta 207+14	ea	1	
529.20	Partial Removal of Structure	ea	1	
613.11	Stone Fill, Type II	cy	180	
649.31	Geotextile Under Stone Fill	sy	270	
651.40	Grubbing Material	sy	140	



TYPICAL CHANNEL SECTION

~ HYDRAULIC DATA ~

DRAINAGE AREA	1.4 sq mi	DESIGN FLOW Q	50	DESIGN OUTLET VELOCITY	7.9 fps
DESIGN TAILWATER DEPTH	3.6 ft	ELEVATION	1519.6		
ORDINARY HIGH WATER DEPTH	1.5 ft				
Q 10 FLOW	210 cfs	HEADWATER ELEVATION	1522.1		
Q 25 FLOW	270 cfs	HEADWATER ELEVATION	1522.9		
Q 50 FLOW	310 cfs	HEADWATER ELEVATION	1523.3		
Q 100 FLOW	380 cfs	HEADWATER ELEVATION	1524.1		
COMMENTS					

DETAILS OF STRUCTURAL PLATE PIPE CULVERTS

	STEEL	STEEL	ALUMINUM
CORRUGATIONS			9" X 2 1/2"
SIZE OF PIPE OR PIPE ARCH	NO		11'-0" X 7'-0"
WATERWAY AREA	STEEL		61.4 sqft
PLATE THICKNESS (COATED)	OPTION		0.175 in
BOLT SIZE			3/4" Ø
WEIGHT PER LINEAR FOOT			112 lb
TOTAL WEIGHT			11424 lb

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

Town Of **WILMINGTON** Bridge No. **26**

Highway No. **VT RTE 9** Log Sta. Surv. Sta.

**CORR. ALUM. ALLOY PLATE PIPE ARCH
HEATHER BROOK - STA 207+14**

Designed By **C WOODS** Drawn By **C WOODS**

Checked By **T SCHMELZENBACH** Date **1/94** Bridge Design Supervisor **J WEAVER** Date **1/94**

PROJECT **SEARSBURG** PROJECT NO. **FO10-1(18)**

I.G.C. Info. **N:\784096\Structures\sd096ly.dgn** sd096c07j

Bridge Sheet No. **Sheet 237 of 435**