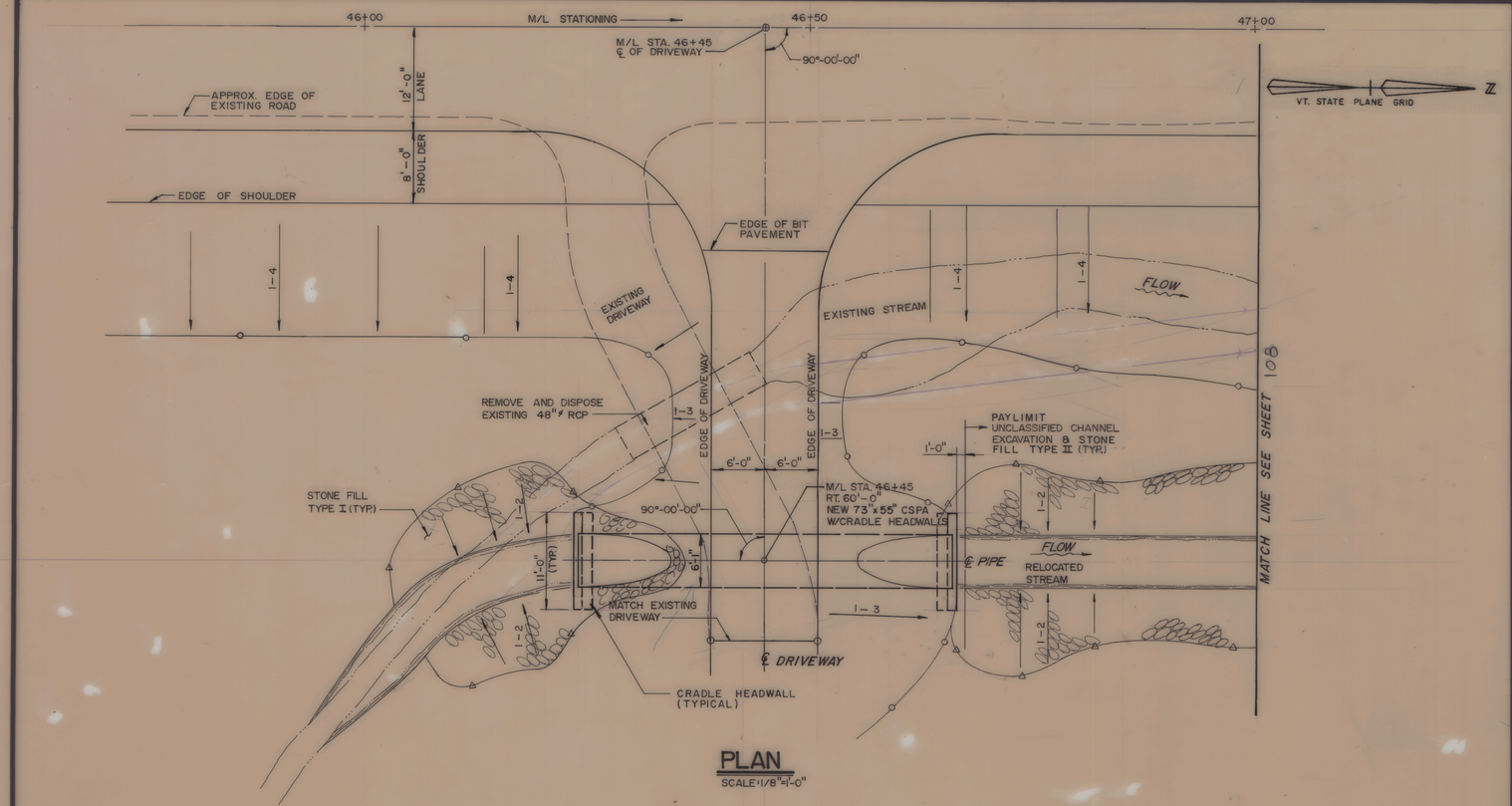
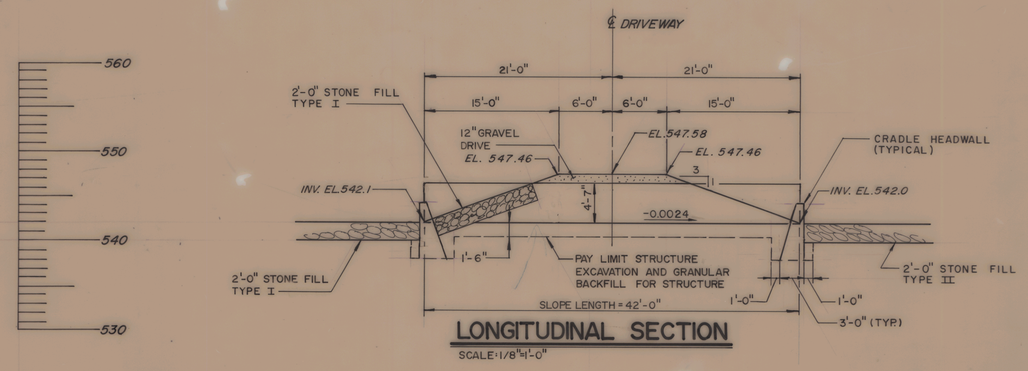


PLAN

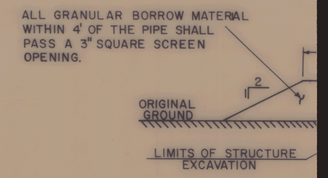
SCALE: 1/8"=1'-0"



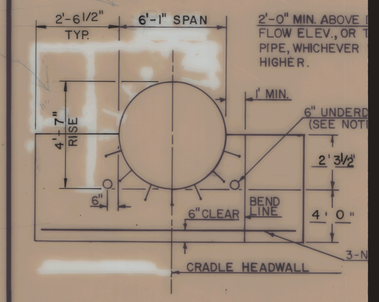
LONGITUDINAL SECTION

SCALE: 1/8"=1'-0"

1. ALL MATERIALS AND CONSTRUCTION SHALL
   SPECIFICATIONS FOR CONSTRUCTION DATED 1986
   BRIDGES. DESIGN IS FOR HS-20 LIVE LOADIN
2. UNLESS OTHERWISE INDICATED FOUR (4) BOLT
   (5 1/3) BOLTS FOR ALUMINUM PLATES ARE
   STRUCTURAL PLATE SECTIONS SHALL BE MA
3. WHEN NORMAL CONSTRUCTION OR REGULAR R
   MAINTAIN A MINIMUM COVER OF 3 FEET OF
4. ALUMINUM PIPE THAT IS TO BE IN CONTACT
   WITH ZINC CHROMATE, OR BITUMINOUS, OR ASI
5. PIPES SHALL BE FACTORY ELONGATED 5%
6. THE ENDS OF THE PIPE SHALL BE CUT SQUA
7. AT THE OUTLET END INCLUDE A 10 FOOT PIEC
   TO SECTION 711.07. COST TO BE INCLUDED IN



TYPICAL



HEADWALL

REINFORCING STEEL SCHEDUL

NO. PIECES	SIZE	LENGTH	MARK	TYPE	
6	6	10'-6"	HW 601	STR	CUT

ESTIMATED QUANTITIES

NO.	ITEM	UNIT
203.27	UNCLASSIFIED CHANNEL EXCAV.	CY
203.32	GRANULAR BORROW	CY
204.25	STRUCTURE EXCAVATION	CY
204.30	GRANULAR BACKFILL for STRUCTURE	CY
501.25	CONCRETE CLASS "B"	CY
507.15	REINFORCING STEEL	LBS
601.3136	CORRUGATED STEEL PIPE ARCH 73"x55") (0.079", 2,310 LBS)	LF
601.3536	POLYMERIC COATED CORRUGATED STEEL PIPE ARCH ** (73"x55") (0.079", 3,066 LBS)	LF
613.10	STONE FILL TYPE I	CY
	STONE FILL TYPE II	CY
	** OPTIONAL	

HYDRAULIC DATA

DRAINAGE AREA = 0.36 SQ. MI. DESIGN FLOW Q 50

Q_{10} = 98 C.F.S.	Q_{10} HEADWATER ELEVATION = 545..99
Q_{25} = 123 C.F.S.	Q_{25} HEADWATER ELEVATION = 546.61
Q_{50} = 142 C.F.S.	Q_{50} HEADWATER ELEVATION = 547.07
Q_{100} = 160 C.F.S.	Q_{100} HEADWATER ELEVATION = 547.57

TAILWATER DEPTH AT Q 50 = 3.15 FEET, ELEVATION 545.15

OUTLET VELOCITY AT Q 50 = 8.45 FEET PER SECOND

ORDINARY HIGHWATER DEPTH — FEET

COMMENTS:

DETAILS OF STRUCTURAL PLATE PIPE CULVERTS

	STEEL	STEEL	ALUMINUM
CORRUGATIONS	3"x1"	3"x1"	
SIZE OF PIPE OR PIPE ARCH	73"x55" CSPA	73"x55" PCCSPA	
WATERWAY AREA (S.F.)	19.6	19.6	
PLATE THICKNESS (COATED)	0.168"	0.168"	
BOLT SIZE			
WEIGHT PER LINEAR FOOT			
TOTAL WEIGHT			
TOTAL LENGTH	42 LF	42 LF	

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