

F.H.W.A. REGION	STATE	FEDERAL AID		STATE		SHEET NO.	TOTAL SHEETS
		ROUTE	PROJECT	ROUTE	PROJECT		

ESTIMATED QUANTITIES FOR BRIDGE**																						
	* CONCRETE CLASS A-3 CU YDS	CONCRETE CLASS A-4 CU YDS	† REINFORCING STEEL LBS	† EPOXY-COATED REINFORCING STEEL LBS	CONCRETE PARAPET LIN FT	STRUCTURE EXCAVATION CU YDS	POROUS BACKFILL CU YDS	STEEL PILES HP 10X42			CONCRETE SLAB SLOPE PROTECTION (4") SQ YDS	6" PIPE UNDERDRAIN LIN FT	†† *** PSC SLAB 3'X18" 27' LG 32' LG EA EA	PSC I-BEAM TYPE III (63' LG) EA	BITUM CONC OVERLAY TYPE 12 TONS	BITUM CONC HEAT STABILIZATION UNIT	8" WATER MAIN LUMP SUM	TELEPHONE CONDUIT LUMP SUM	PREFORMED ELASTOMERIC JT SEALER 3" LIN FT	REMOVE EXST 8" GAS LINE LUMP SUM	DISMANTLE & REMOVE EXST STRUCTURE LUMP SUM	RAILWAY FLAGGING AND WATCHMAN SERVICE LUMP SUM
								FURN LIN FT	DRIVE LIN FT	PILE POINT EA												
SUPERSTRUCTURE		178	15,820	11,460	249								20	20	8	50.6	50.6	1	1	136	1	1
ABUTMENT A	45		4020			200	31				272	92										1
PIER 1	224		20,460			500	64	272	272	42												
PIER 2	205		18,760			500	46	840	840	42												
ABUTMENT B	92		10,920			490	58				249	102										
TOTAL	566	178	69,980	11,460	249	1690	199	1112	1112	84	521	194	20	20	8	50.6	50.6	1	1	136	1	1

* THE COST OF DAMPROOFING SHALL BE INCLUDED IN THE BID PRICE FOR CLASS A-3 CONCRETE

*** THE COST OF CLASS 1 WATERPROOFING SHALL BE INCLUDED IN THE BID PRICE FOR PSC SLAB.

† REINFORCING STEEL QUANTITY DOES NOT INCLUDE REINFORCING STEEL PROVIDED IN PRESTRESSED CONCRETE MEMBERS.

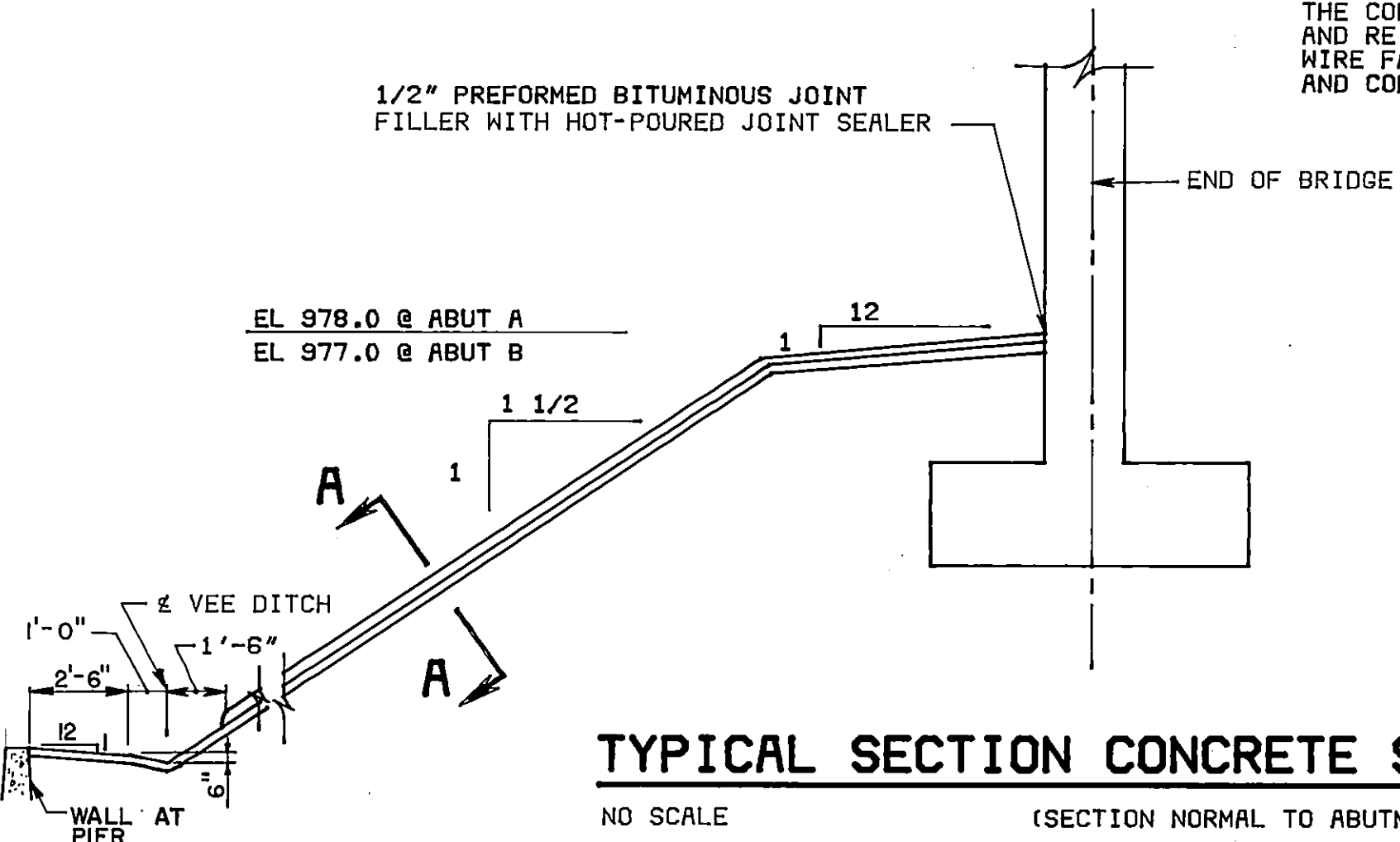
†† THE COST OF TRANSVERSE TIES SHALL BE INCLUDED IN THE BID PRICE FOR PSC SLABS.

** SEE SHEET 4 OF 20 FOR ESTIMATED ROADWAY QUANTITIES.

NOTE:

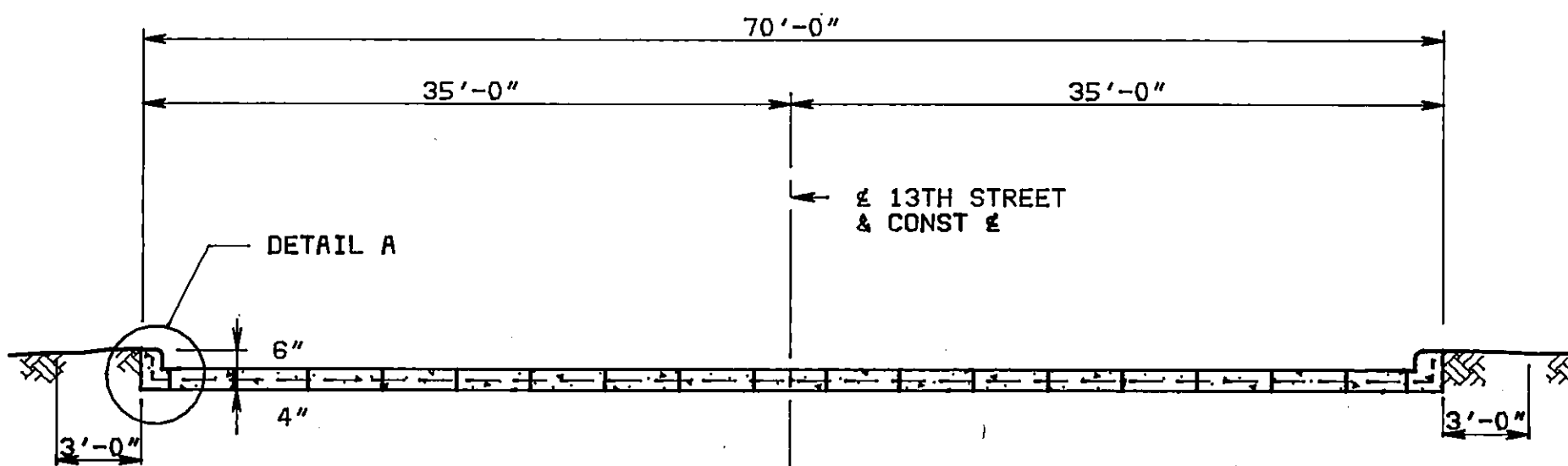
THE CONCRETE SLOPE PROTECTION SHALL BE 4" THICK AND REINFORCED WITH 6X6-M2.9XW2.9 WELDED WIRE FABRIC PLACED AT THE CENTER OF THE SLAB AND CONTINUOUS THROUGH CONSTRUCTION JOINTS.

NOTE: SEE SHEET 18 FOR APPROACH SLAB QUANTITIES.



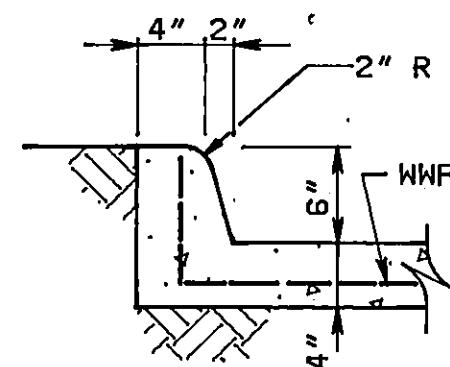
TYPICAL SECTION CONCRETE SLAB SLOPE PROTECTION

NO SCALE (SECTION NORMAL TO ABUTMENT)



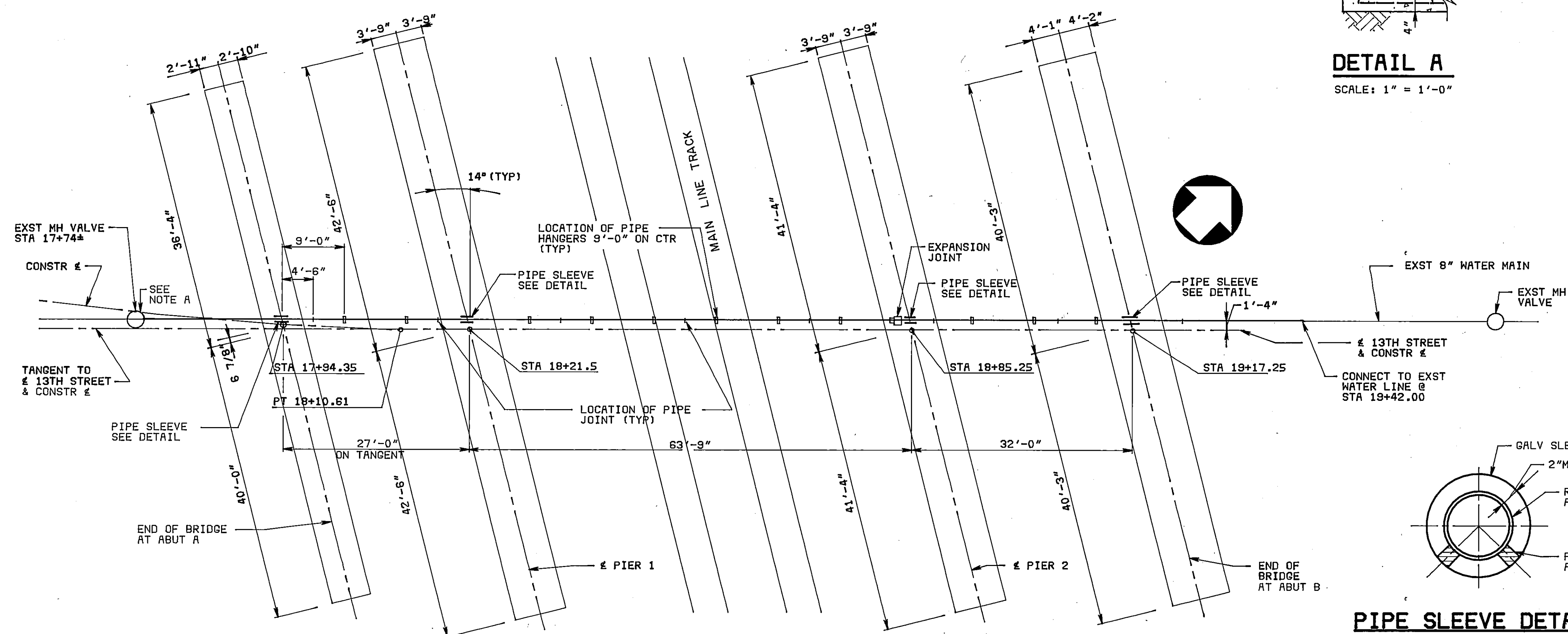
SECTION A-A

NO SCALE



DETAIL A

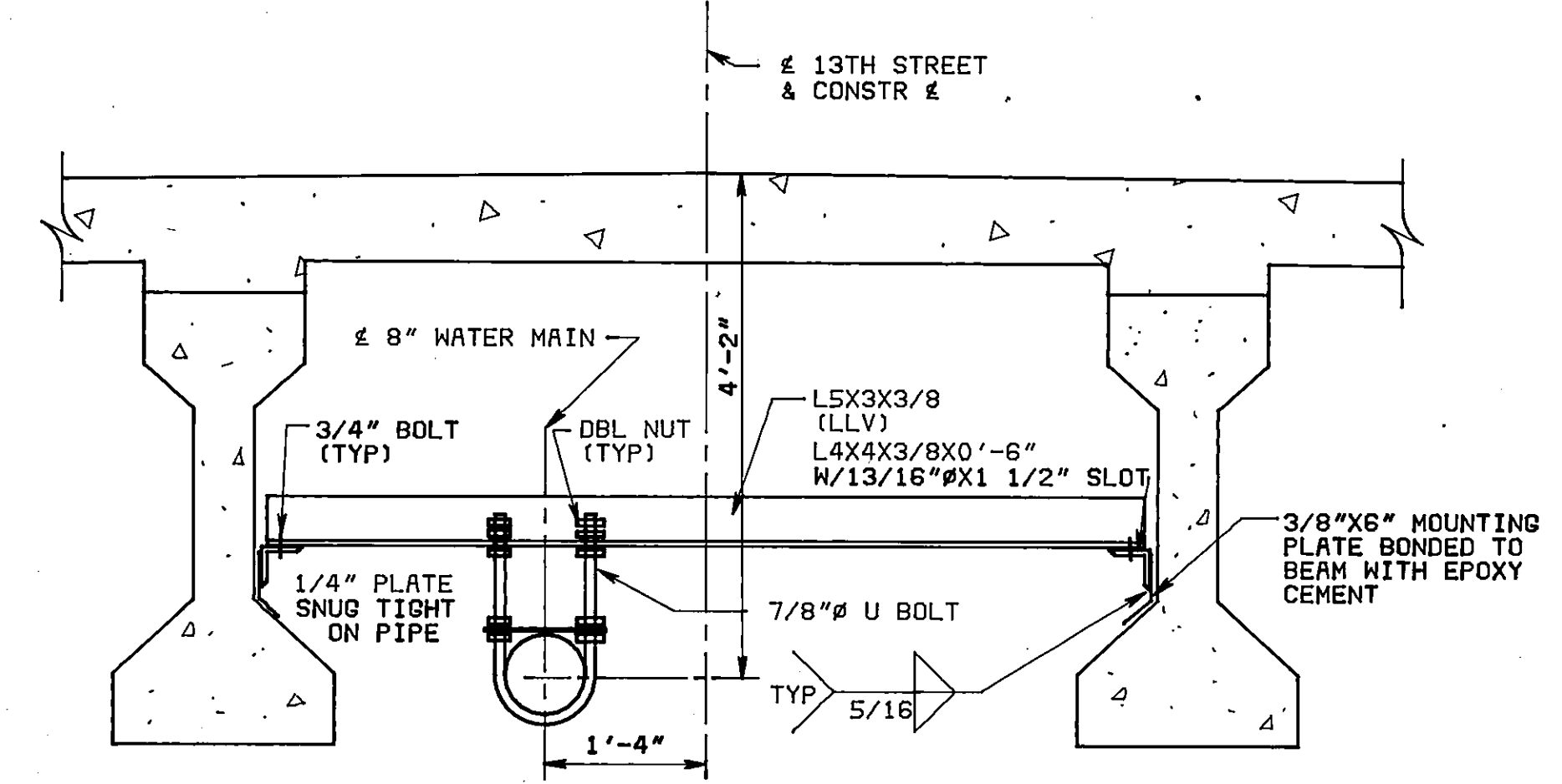
SCALE: 1" = 1'-0"



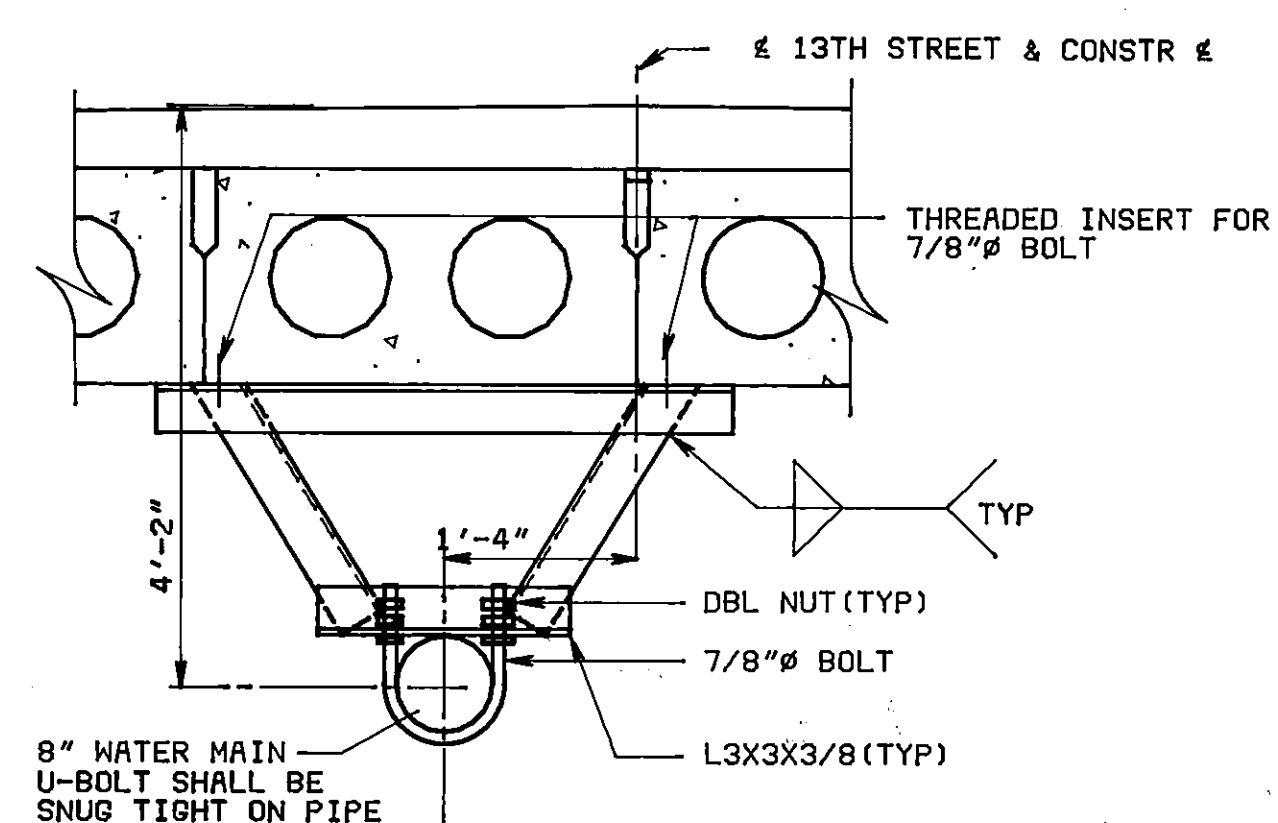
NOTE A: CONNECT NEW PIPE TO EXST WATER MAIN AT VALVE. CONTRACTOR TO PROTECT THE EXST BLOCKING AT VALVE AND REPAIR ANY DAMAGES THAT OCCUR DURING CONSTRUCTION. SEE SPECIFICATIONS.

SUBSTRUCTURE LAYOUT AND WATER MAIN

SCALE: 1" = 10'-0"



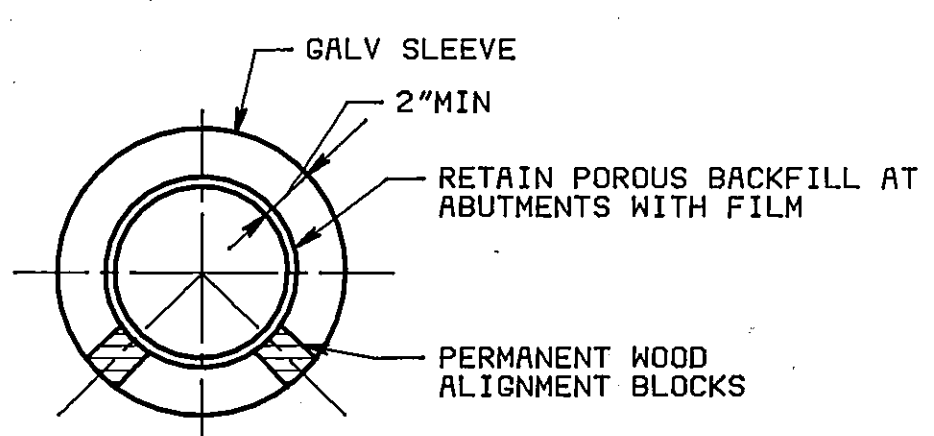
TYPICAL SECTION SPAN 2



TYPICAL SECTION SPANS 1 & 3

WATER MAIN SUPPORT DETAILS

SCALE: 3/4" = 1'-0"



PIPE SLEEVE DETAIL

NO SCALE

REVISION	DATE	DESCRIPTION	BY	APP
DESIGNED	HWP			
DRAWN	DAM			
CHECKED	RWF			
APPROVED	HWP			
SUBMITTED	HWP			
13TH STREET OVER NW RAILWAY				
CITY OF ROANOKE, VIRGINIA				
SUBSTRUCTURE LAYOUT AND QUANTITIES				
HAYES, SEAY, MATTERN & MATTERN		SCALE	AS NOTED	COMM. NO. 2802A
ARCHITECTS - ENGINEERS - PLANNERS		DATE	JULY 1983	SHEET 6 OF 20
ROANOKE, VIRGINIA				

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