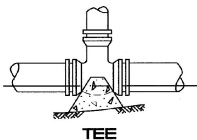
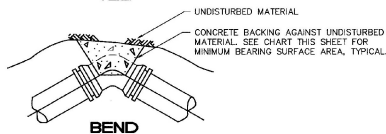


DEAD END



TEE



BEND

TYPICAL CONCRETE BACKING

NO SCALE

AREA OF BEARING FACE OF CONCRETE THRUST BLOCKS ON UNDISTURBED MATERIAL IN SQUARE FEET
BASED ON 450 P.S.I. & 2 TON/S.F. ALLOWABLE SOIL BEARING CAPACITY

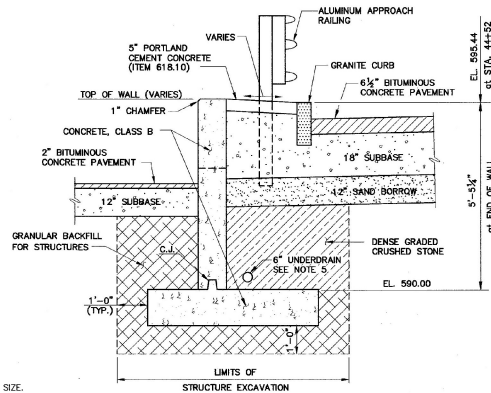
PIPE SIZE IN.	1/4 BEND	1/8 BEND	PLUG & TEES
4, 6, 8	8	4	6
10	13	7	9
12	18	9	13
16	32	16	23

NOTES

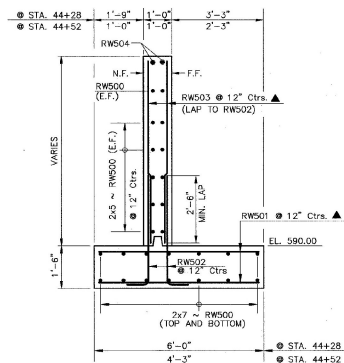
- THRUST BLOCKS REQUIRED:
 9 @ 15" ϕ PIPE (NON-PARTICIPATING)
 8 @ 7" ϕ PIPE (PARTICIPATING)
- CONCRETE FOR THRUST BLOCKS SHALL BE PAID FOR UNDER ITEM NO. 501.25.
- TEST PRESSURE SHALL BE AS STATED IN G29.11.

NOTES

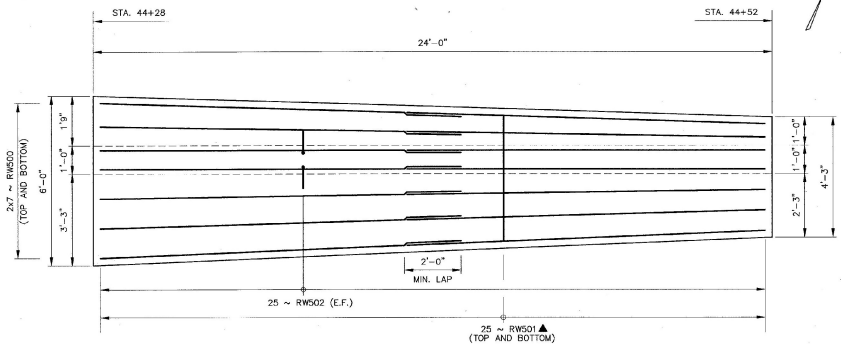
- FIGURES BASED ON 450 PSI.
- FOR PIPE SIZES NOT LISTED, USE NEXT LARGER PIPE SIZE.
- WHEN MORE THAN ONE SOIL TYPE IS ENCOUNTERED, THE ONE WITH LEAST BEARING CAPACITY SHALL BE USED.
- RETAINING RODS OR RESTRAINED JOINT PIPE, AS APPROVED BY THE ENGINEER, SHALL BE USED IN PLACE OF THRUST BLOCKS WHEN MUCK IS ENCOUNTERED.



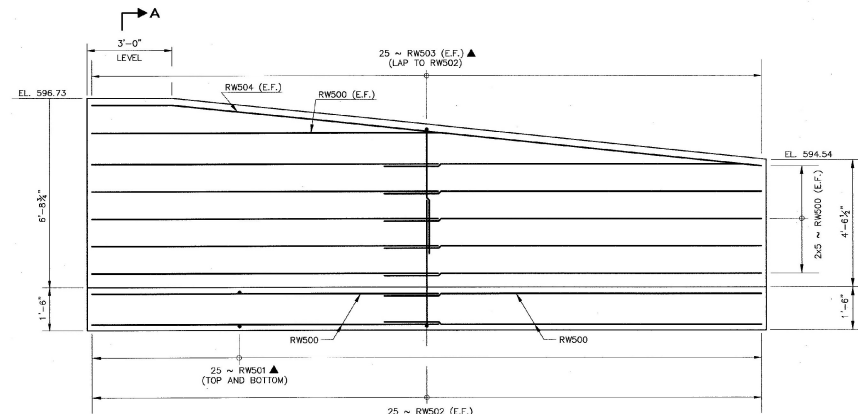
TYPICAL SECTION



SECTION A-A



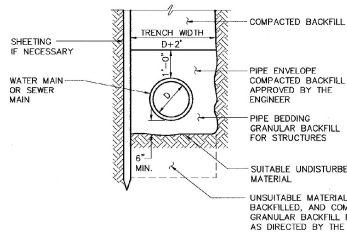
FOOTING PLAN



ELEVATION

RETAINING WALL DETAILS

SCALE: 1/2" = 1'-0"



TYPICAL TRENCH DETAIL IN CUT SECTIONS

NOT TO SCALE

LEGEND

- N.F. NEAR FACE
- F.F. FAR FACE
- E.E. EACH FACE
- ▲ CUT TO FIT IN FIELD
- C.J. CONSTRUCTION JOINT

NOTES

- PLACE 1/2" EXPANSION MATERIAL AGAINST THE BACKFACE OF WINGWALL NO. 3 PRIOR TO PLACEMENT OF CONCRETE.
- FOR CONSTRUCTION JOINT DETAILS, SEE SHEET 32 OF 46.
- CONCRETE CLASS B ($f'_c = 3500$ psi).
- GRADE 60 REINFORCEMENT.
- SLOPE UNDERDRAIN AT 1" PER FOOT TO CATCH BASIN AT STA. 44+54 LT. 14

BETTIGOLE ANDREWS & CLARK, INC.
Consulting Engineers

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

CITY OF	BARRE	BRIDGE NO.	B10
STREET NAME	BLACKWELL STREET	LOG STA.	
BLACKWELL STREET BRIDGE OVER STEVENS BRANCH		SURV. STA.	
MISCELLANEOUS DETAILS			
DESIGNED BY	V. DeAngelo	DRAWN BY	S. Belonger
CHECKED BY	D. Kidder	DATE	12/95
		BRIDGE DESIGN SUPERVISOR	J. Patusky
		DATE	11/98
PROJECT	BARRE CITY	PROJECT NO.	BRM 6000(13)
B&C DRAWING NO.	BLACK18\24	DATE	12/98
BRIDGE SHEET NO.		SHEET	12 OF 46