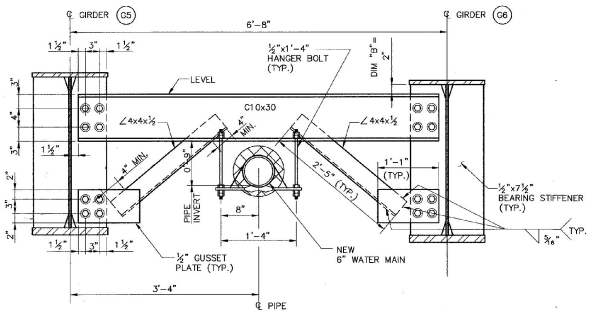
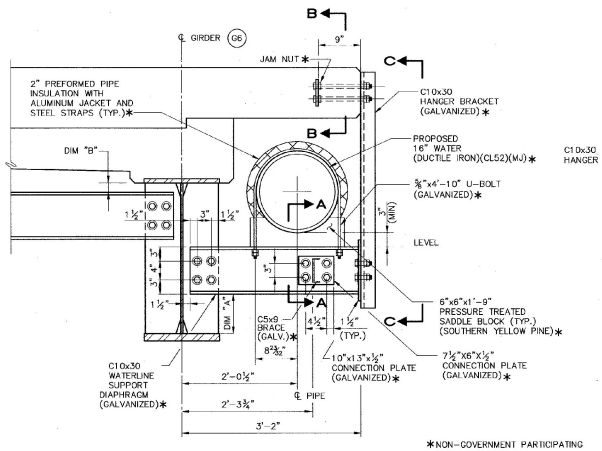


DIAPHRAGM TYPE 3

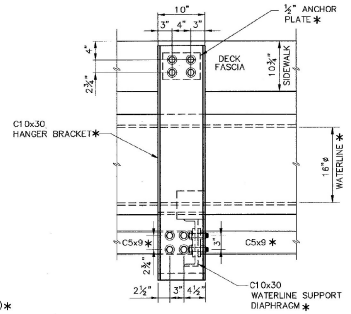
SCALE: 1" = 1'-0"



DIAPHRAGM TYPE 5

SCALE: 1" = 1'-0"

✱NON-GOVERNMENT PARTICIPATING ITEMS. SEE NOTE 3.



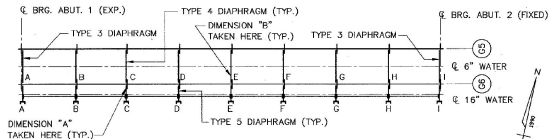
SECTION C-C

SCALE: 1" = 1'-0"

LOCATION	A	B	C	D	E	F	G	H	I
DIM. "B"	2"	4⅜"	6⅝"	8"	8⅛"	8⅝"	6²³⁄₃₂"	4¹³⁄₁₆"	2"

DIMENSION "B" LOCATION TABLE

(SEE DIAPHRAGM TYPE 3 AND 4 DETAILS)

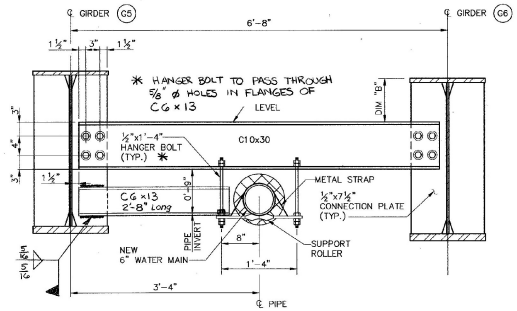


PARTIAL FRAMING PLAN

LOCATION	A	B	C	D	E	F	G	H	I
DIM. "A"	8¹³⁄₃₂"	5¹⁷⁄₃₂"	3¹⁄₃₂"	2¹³⁄₃₂"	2"	2¹³⁄₃₂"	3²³⁄₃₂"	5¾"	8¹³⁄₃₂"

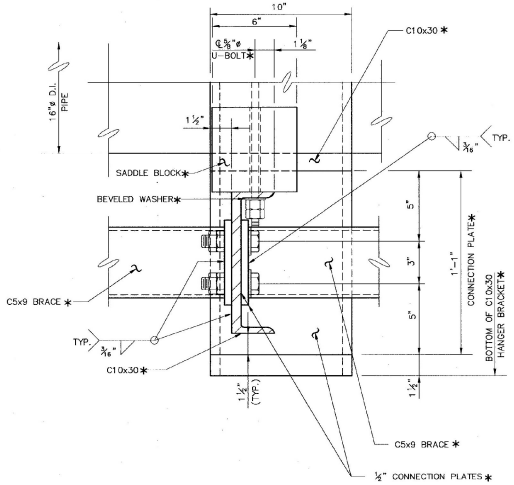
DIMENSION "A" LOCATION TABLE

(SEE DIAPHRAGM TYPE 5 DETAIL)



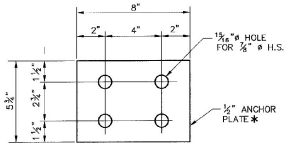
DIAPHRAGM TYPE 4

SCALE: 1" = 1'-0"



SECTION A-A

SCALE: 3" = 1'-0"



SECTION B-B

SCALE: 3" = 1'-0"

NOTES

1. U-BOLTS SHALL BE DOUBLE NUTTED WITH 4" OF THREAD. FIELD DRILL ⅞"ø HOLE IN FLANGE. ALL STEEL IN U-BOLTS, HANGER BOLTS, METAL STRAP, SUPPORT ROLLERS, AND WASHERS SHALL BE M270, GRADE 36. NUTS SHALL BE HEAVY HEX AND CONFORM TO THE REQUIREMENTS OF ASTM A307.
2. U-BOLTS, HANGER BOLTS, SADDLE BLOCK, SUPPORT ROLLER, METAL STRAP, NUTS AND WASHERS SHALL BE PAID FOR UNDER ITEM 629.60.
3. THE FURNISHING AND INSTALLATION OF THE 16"ø WATERMAIN INCLUDING ALL APPERTENANCES ARE NON-GOVERNMENT PARTICIPATING.
4. THE COST OF GALVANIZING STRUCTURAL STEEL FOR SUPPORT OF THE 16"ø WATERMAIN (DIAPHRAGM TYPE 5) SHALL BE INCLUDED UNDER ITEM 513.25.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

CITY OF BARRE	BRIDGE NO. B10
STREET NAME BLACKWELL STREET	LOG STA. / SURV. STA.
BLACKWELL STREET BRIDGE OVER STEVENS BRANCH	
UTILITY DIAPHRAGM DETAILS	
DESIGNED BY V. DeAngelo	DRAWN BY S. Belanger
CHECKED BY J. Patusky DATE 12/98	BRIDGE DESIGN SUPERVISOR J. Patusky DATE 12/98
PROJECT BARRE CITY	PROJECT NO. BRM 6000(13)
BA&C DRAWING NO. BLACK09\12	DATE 12/98
BRIDGE SHEET NO. BR109	SHEET 22 OF 46

BETTIGOLE ANDREWS & CLARK, INC.
Consulting Engineers

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