WETLAND & STREAM IMPACTS

HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
17BP.2.R.54	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

50 25 0 50 100
PLANS

REVISIONS

8/17/99

DETAIL A
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

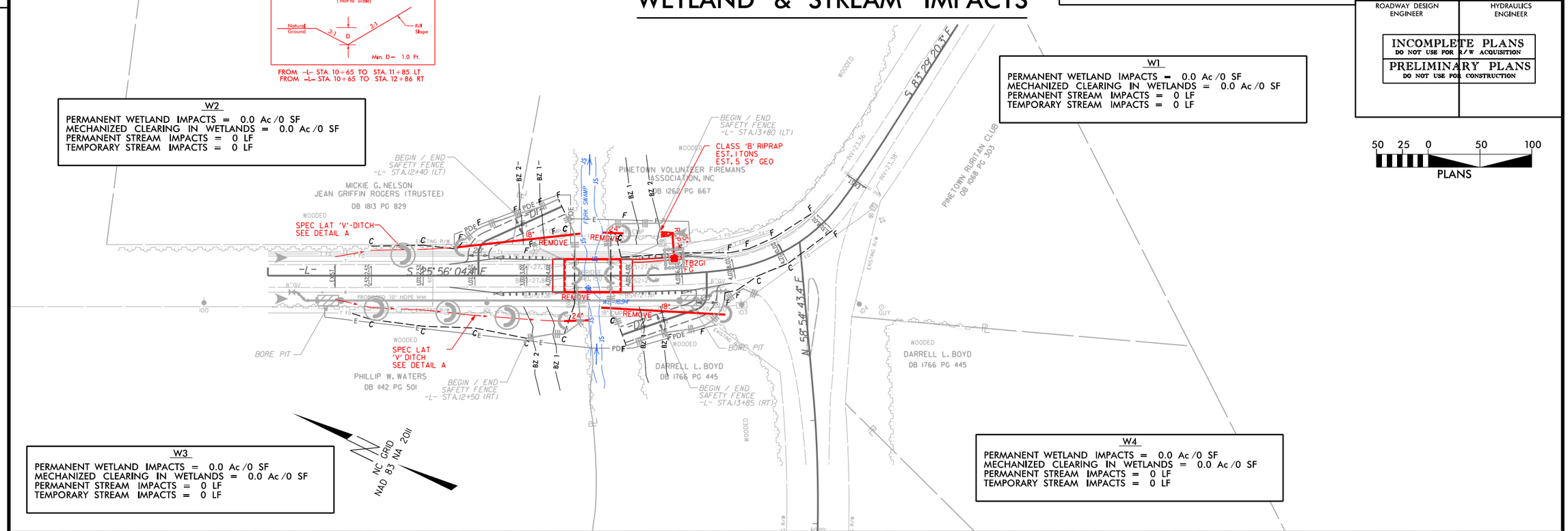
FROM -L- STA. 10+65 TO STA. 11+85 LT
FROM -L- STA. 10+65 TO STA. 12+86 RT

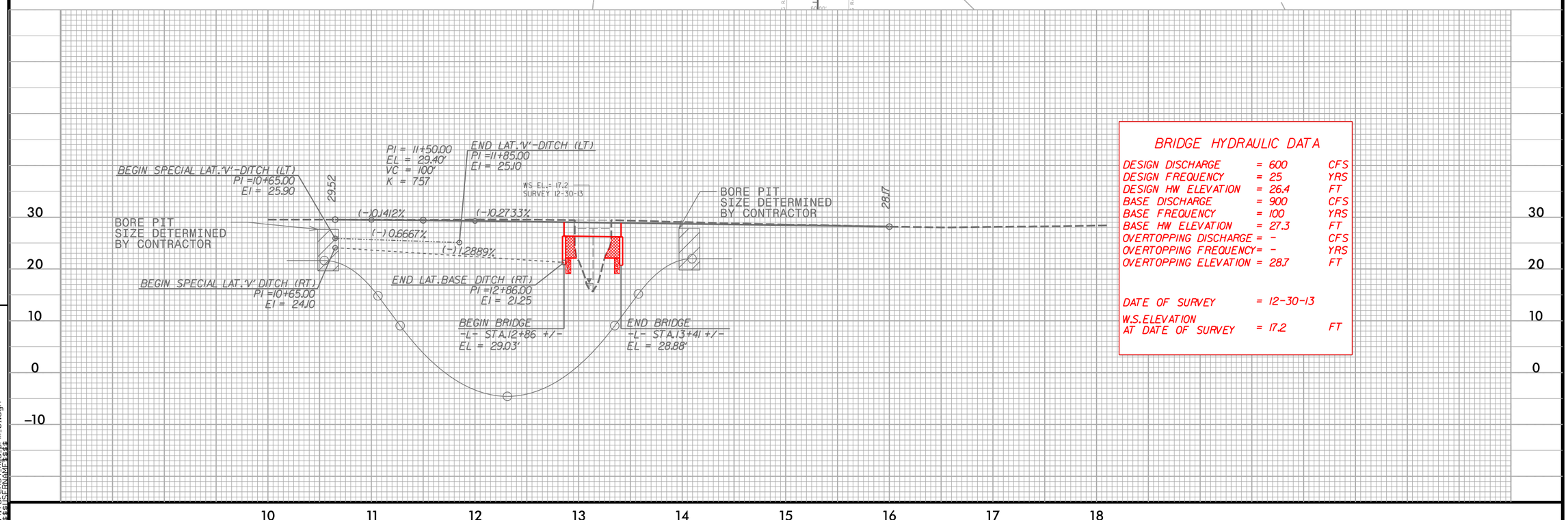
W1
PERMANENT WETLAND IMPACTS = 0.0 Ac /0 SF
MECHANIZED CLEARING IN WETLANDS = 0.0 Ac /0 SF
PERMANENT STREAM IMPACTS = 0 LF
TEMPORARY STREAM IMPACTS = 0 LF

W2
PERMANENT WETLAND IMPACTS = 0.0 Ac /0 SF
MECHANIZED CLEARING IN WETLANDS = 0.0 Ac /0 SF
PERMANENT STREAM IMPACTS = 0 LF
TEMPORARY STREAM IMPACTS = 0 LF

W3
PERMANENT WETLAND IMPACTS = 0.0 Ac /0 SF
MECHANIZED CLEARING IN WETLANDS = 0.0 Ac /0 SF
PERMANENT STREAM IMPACTS = 0 LF
TEMPORARY STREAM IMPACTS = 0 LF

W4
PERMANENT WETLAND IMPACTS = 0.0 Ac /0 SF
MECHANIZED CLEARING IN WETLANDS = 0.0 Ac /0 SF
PERMANENT STREAM IMPACTS = 0 LF
TEMPORARY STREAM IMPACTS = 0 LF





BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 600	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 26.4	FT
BASE DISCHARGE	= 900	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 27.3	FT
OVERTOPPING DISCHARGE	= -	CFS
OVERTOPPING FREQUENCY	= -	YRS
OVERTOPPING ELEVATION	= 28.7	FT
DATE OF SURVEY	= 12-30-13	
W.S. ELEVATION AT DATE OF SURVEY	= 17.2	FT

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17BP.2.R.54_hud_prm_01.dgn
$$$$USERNAME$$$$

BUFFER IMPACTS

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50 25 0 50 100
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SPECIAL LATERAL 'V' DITCH
(Not to Scale)

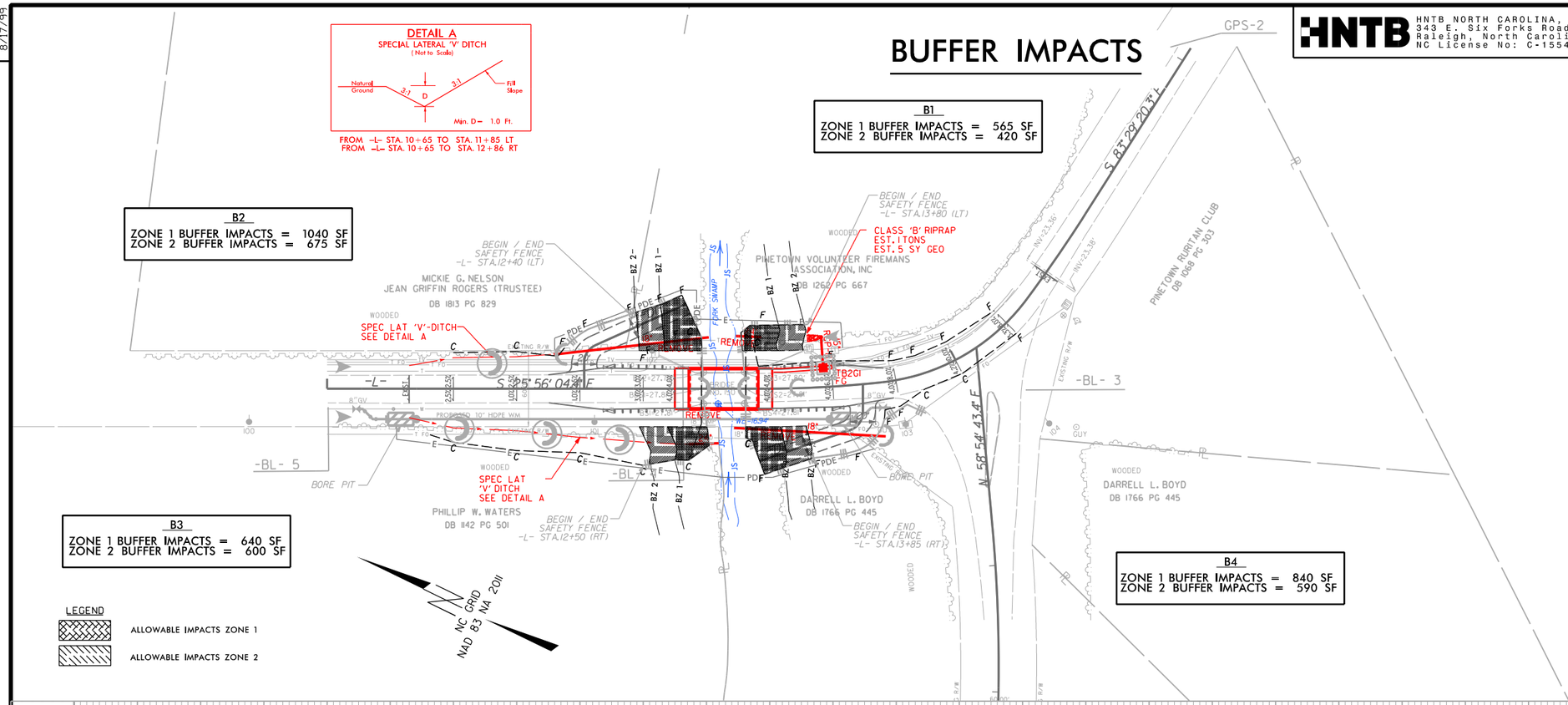
FROM -L- STA. 10+65 TO STA. 11+85 LT
FROM -L- STA. 10+65 TO STA. 12+86 RT

B1
ZONE 1 BUFFER IMPACTS = 565 SF
ZONE 2 BUFFER IMPACTS = 420 SF

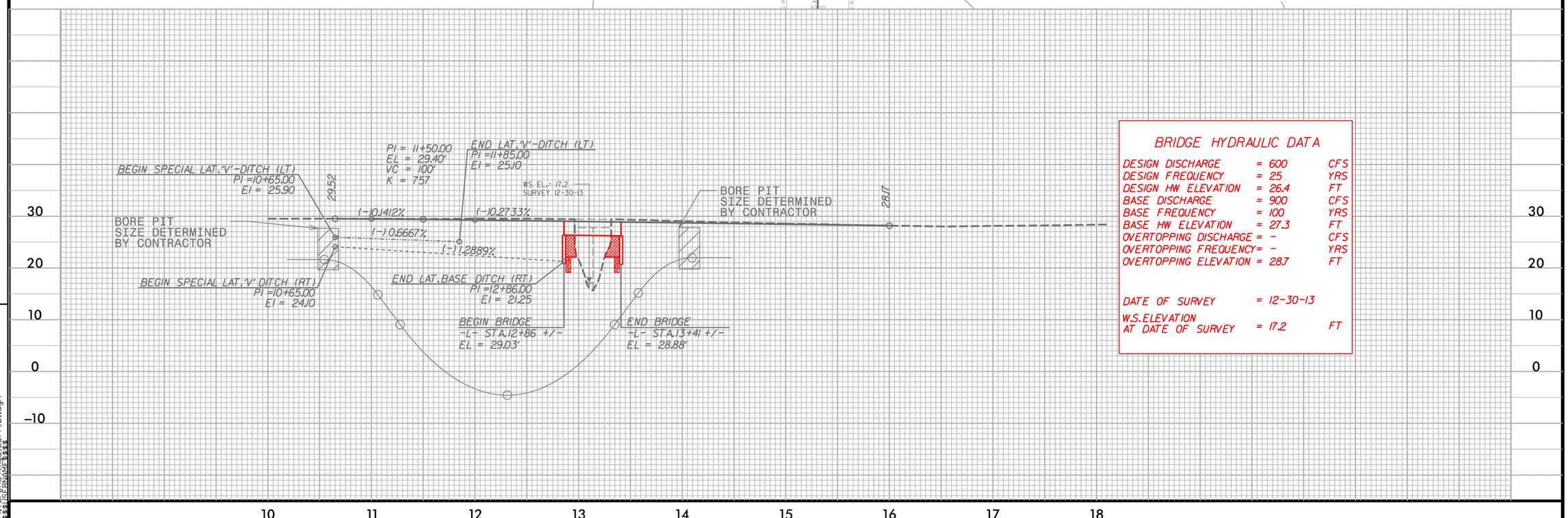
B2
ZONE 1 BUFFER IMPACTS = 1040 SF
ZONE 2 BUFFER IMPACTS = 675 SF

B3
ZONE 1 BUFFER IMPACTS = 640 SF
ZONE 2 BUFFER IMPACTS = 600 SF

B4
ZONE 1 BUFFER IMPACTS = 840 SF
ZONE 2 BUFFER IMPACTS = 590 SF



LEGEND
ALLOWABLE IMPACTS ZONE 1
ALLOWABLE IMPACTS ZONE 2



BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 600	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 26.4	FT
BASE DISCHARGE	= 900	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 27.3	FT
OVERTOPPING DISCHARGE	= -	CFS
OVERTOPPING FREQUENCY	= -	YRS
OVERTOPPING ELEVATION	= 28.7	FT
DATE OF SURVEY	= 12-30-13	
W.S. ELEVATION AT DATE OF SURVEY	= 17.2	FT

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