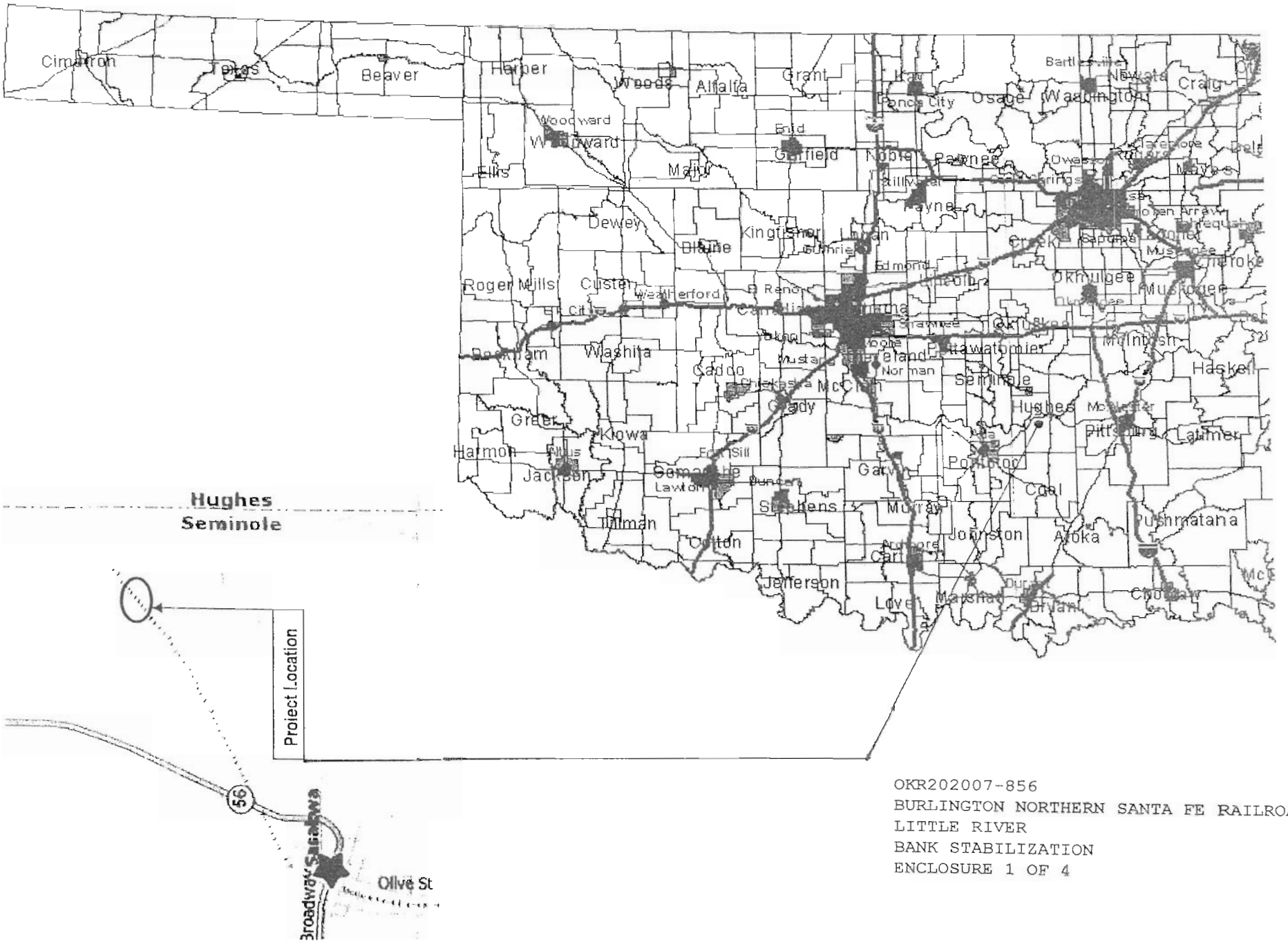
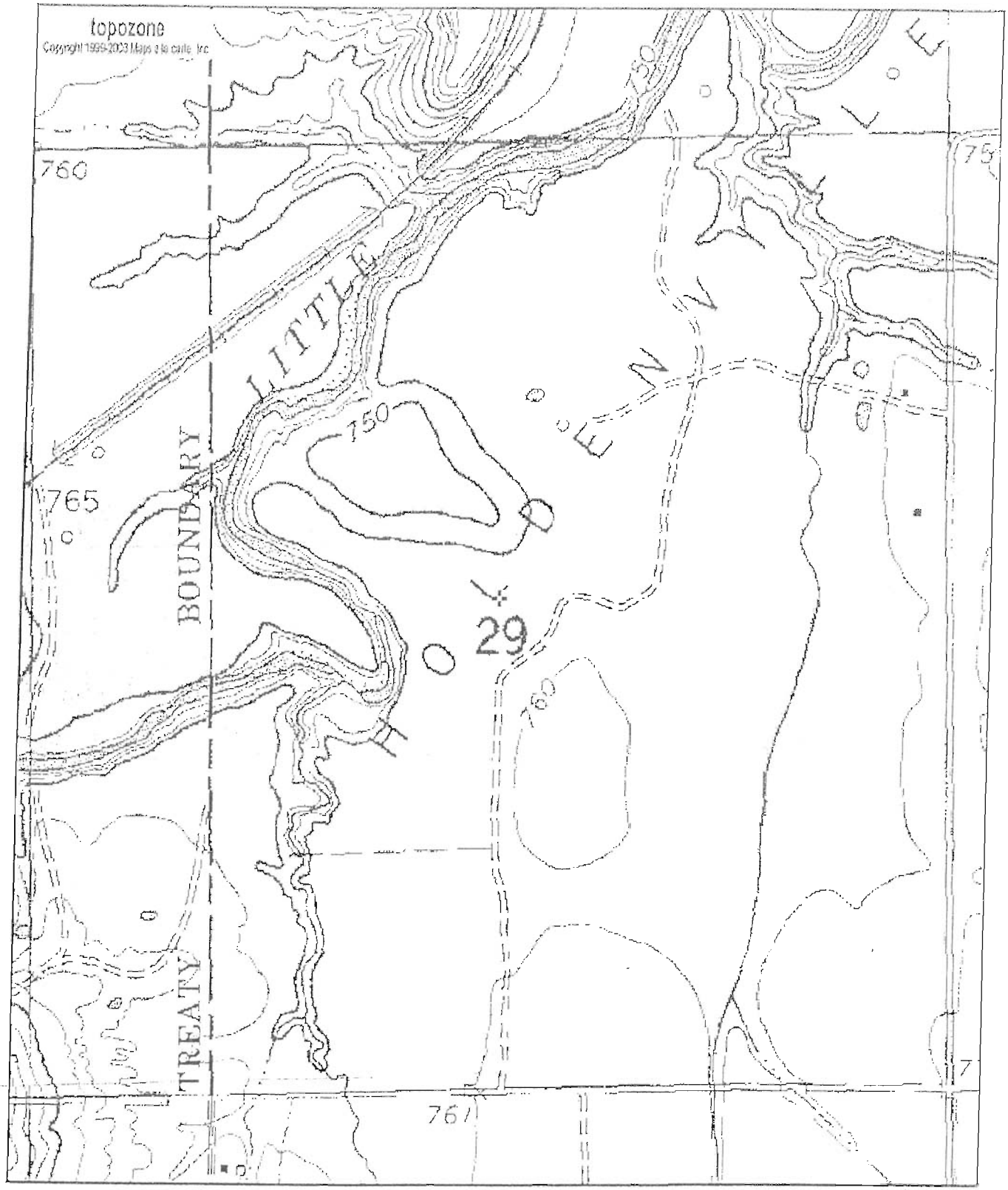
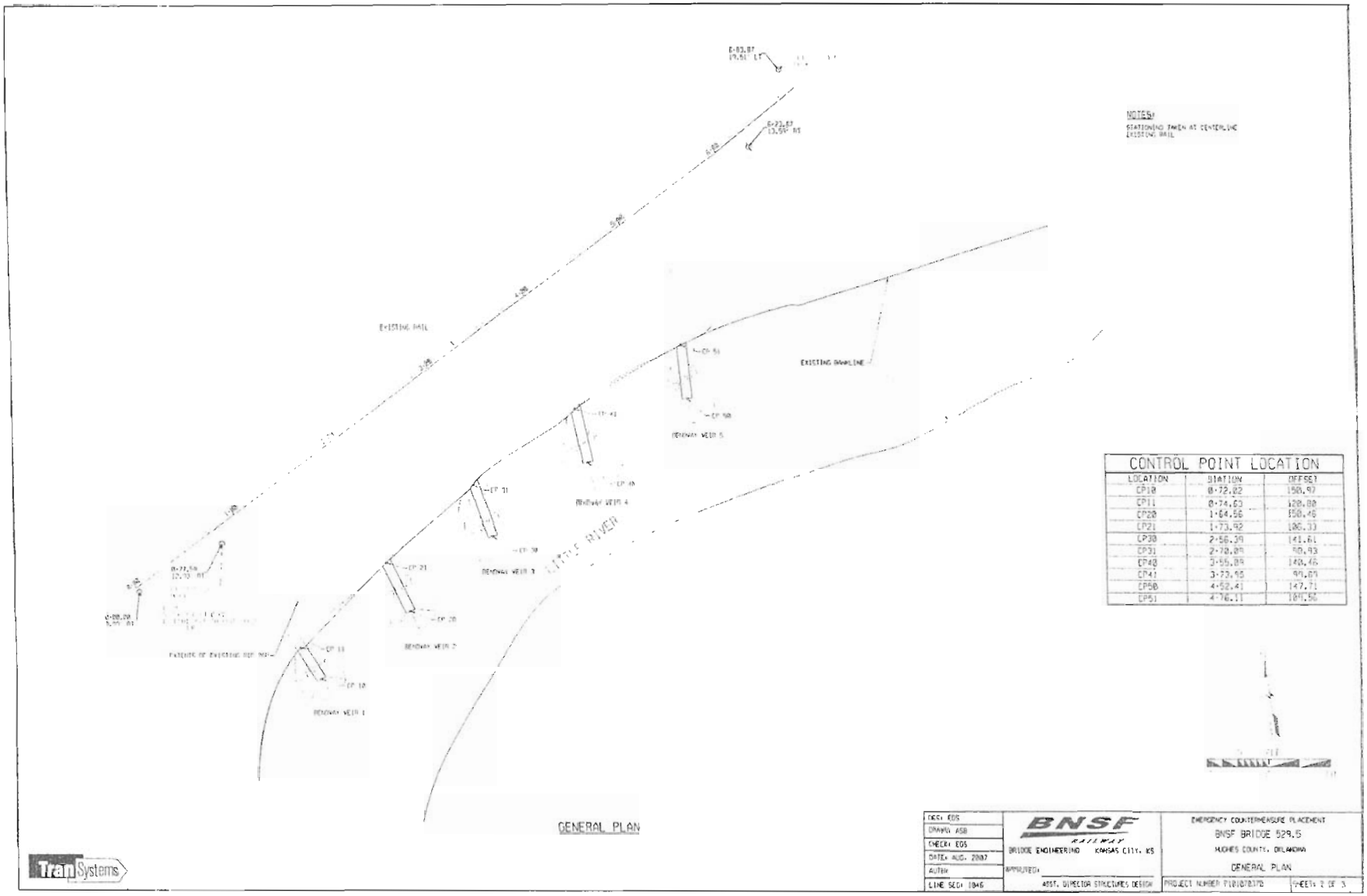


OKR202007-856
BURLINGTON NORTHERN SANTA FE RAILROAD
LITTLE RIVER
BANK STABILIZATION
ENCLOSURE 1 OF 4



OKR202007-856
BURLINGTON NORTHERN SANTA FE RAILROAD
LITTLE RIVER
BANK STABILIZATION
ENCLOSURE 2 OF 4

M=4.285
G=1.442



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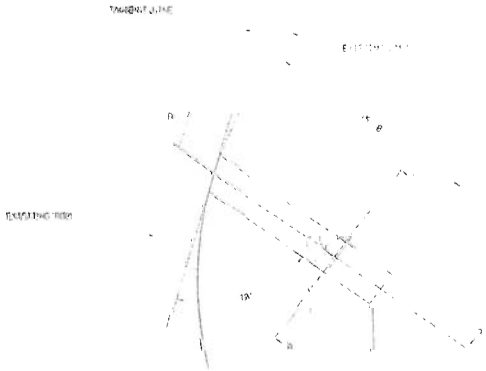
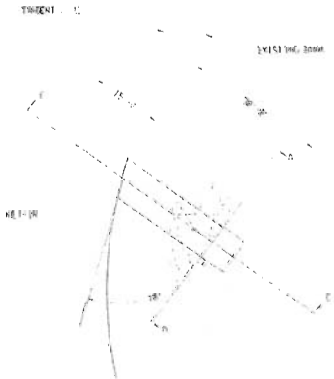
BURLINGTON NORTHERN SANTA FE RAILROAD
LITTLE RIVER
BANK STABILIZATION
ENCLOSURE 3 OF 4



TYP. PLAN VIEW (BENDWAY WEIRS 2, 5)

TYP. CROSS-SECTION A-A

TYP. CROSS-SECTION B-B



TYP. PLAN VIEW (BENDWAY WEIR 3)

TYP. CROSS-SECTION C-C

NOTES:

RIPRAP PARTICLE SIZES CAN BE FOUND IN THE TABLE BELOW. THE AVERAGE DIAMETER (D50) OF RIPRAP SHOULD BE 24", WHILE THE MAXIMUM DIAMETER (D100) SHOULD BE 4'.

EST. ROCK QUANTITY

LOCATION	QUANTITY (CU YD)
BENDWAY WEIR 1	275
BENDWAY WEIR 2	315
BENDWAY WEIR 3	465
BENDWAY WEIR 4	660
BENDWAY WEIR 5	465

MIN. & MAX. RIPRAP PARTICLE SIZE (INCHES)

D15		D50	D85		D100
MIN	MAX	AVERAGE	MIN	MAX	MAX
14.5	21.0	24.0	31.0	37.0	48.0

TYPICAL COUNTERMEASURE DETAIL

TranSystems

BNSF RAILWAY
BRIDGE ENGINEERING KANSAS CITY, KS

EMERGENCY COUNTERMEASURE PLACEMENT
BNSF BRIDGE 529.8
HUGHES COUNTY, OKLAHOMA
TYPICAL COUNTERMEASURE DETAIL

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BURLINGTON NORTHERN SANTA FE RAILROAD
LITTLE RIVER
BANK STABILIZATION
ENCLOSURE 4 OF 4