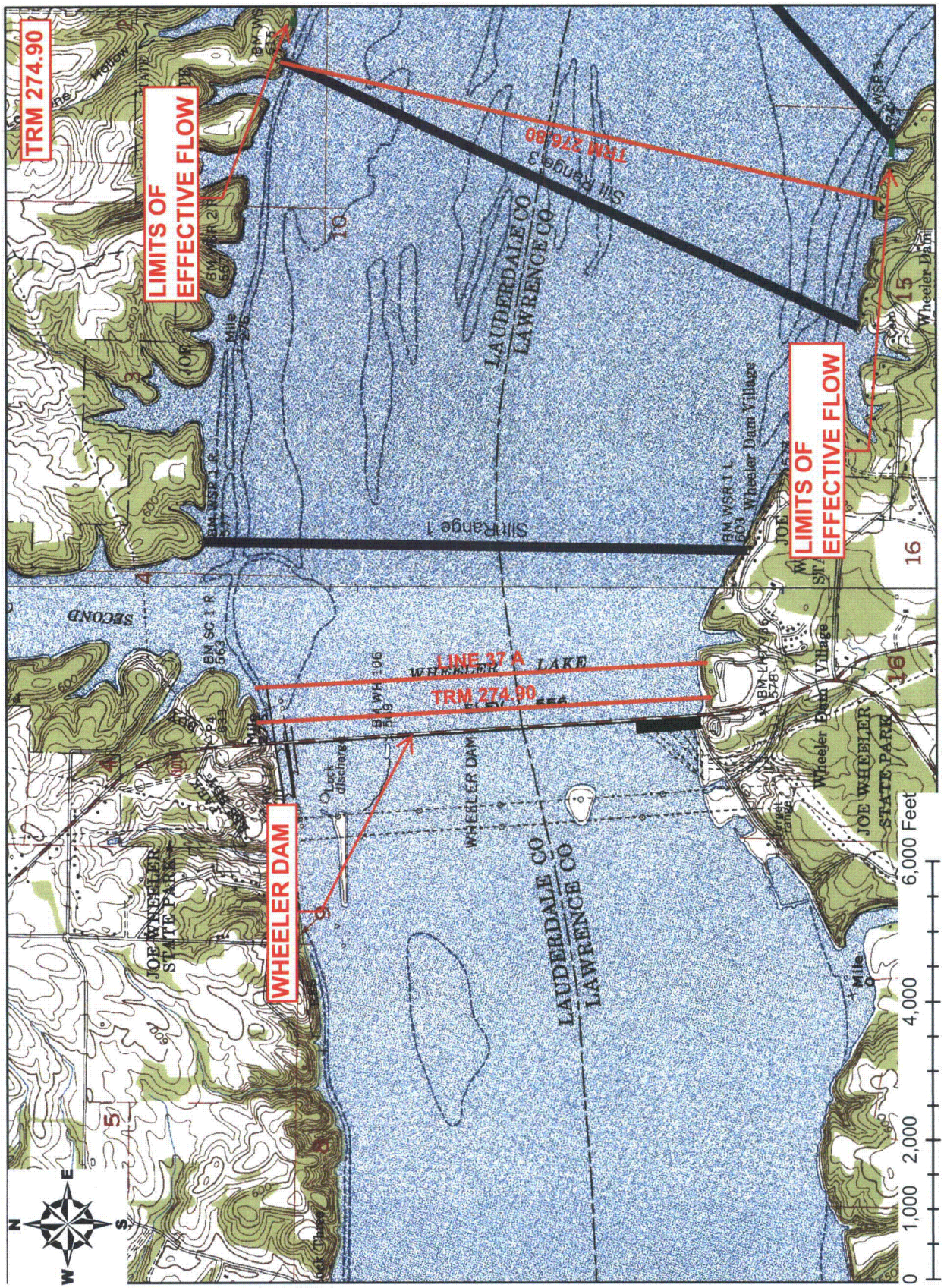
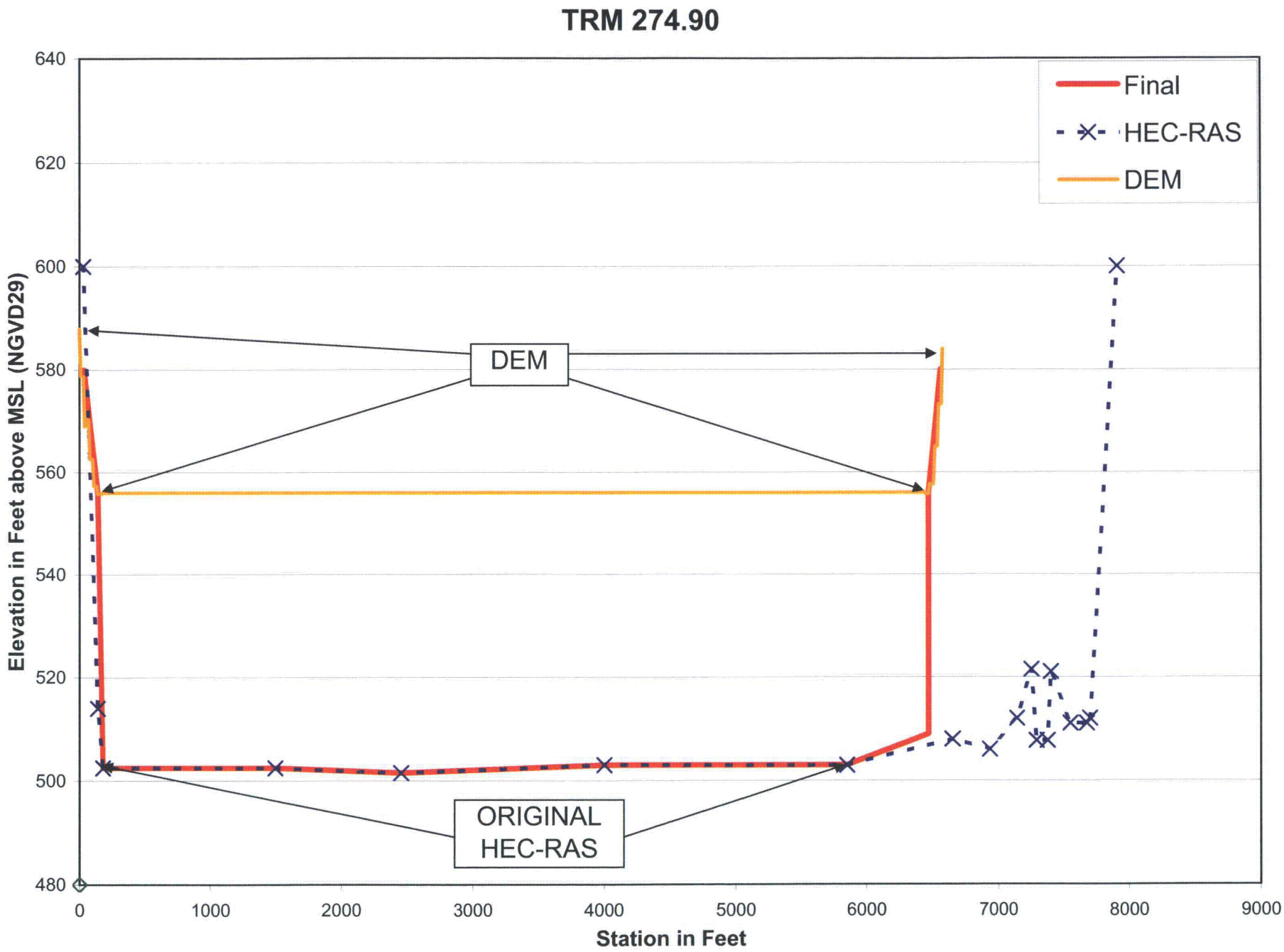
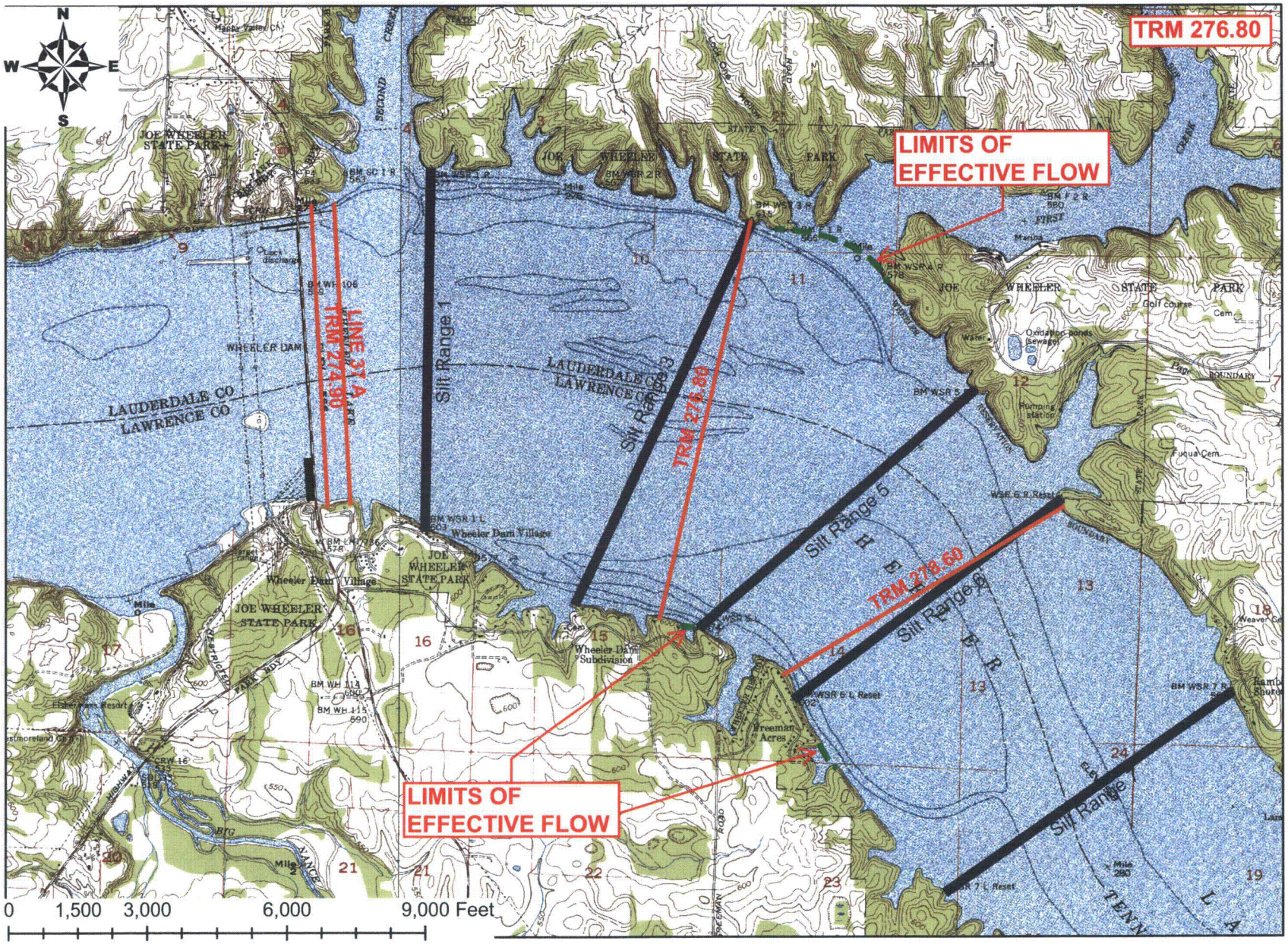
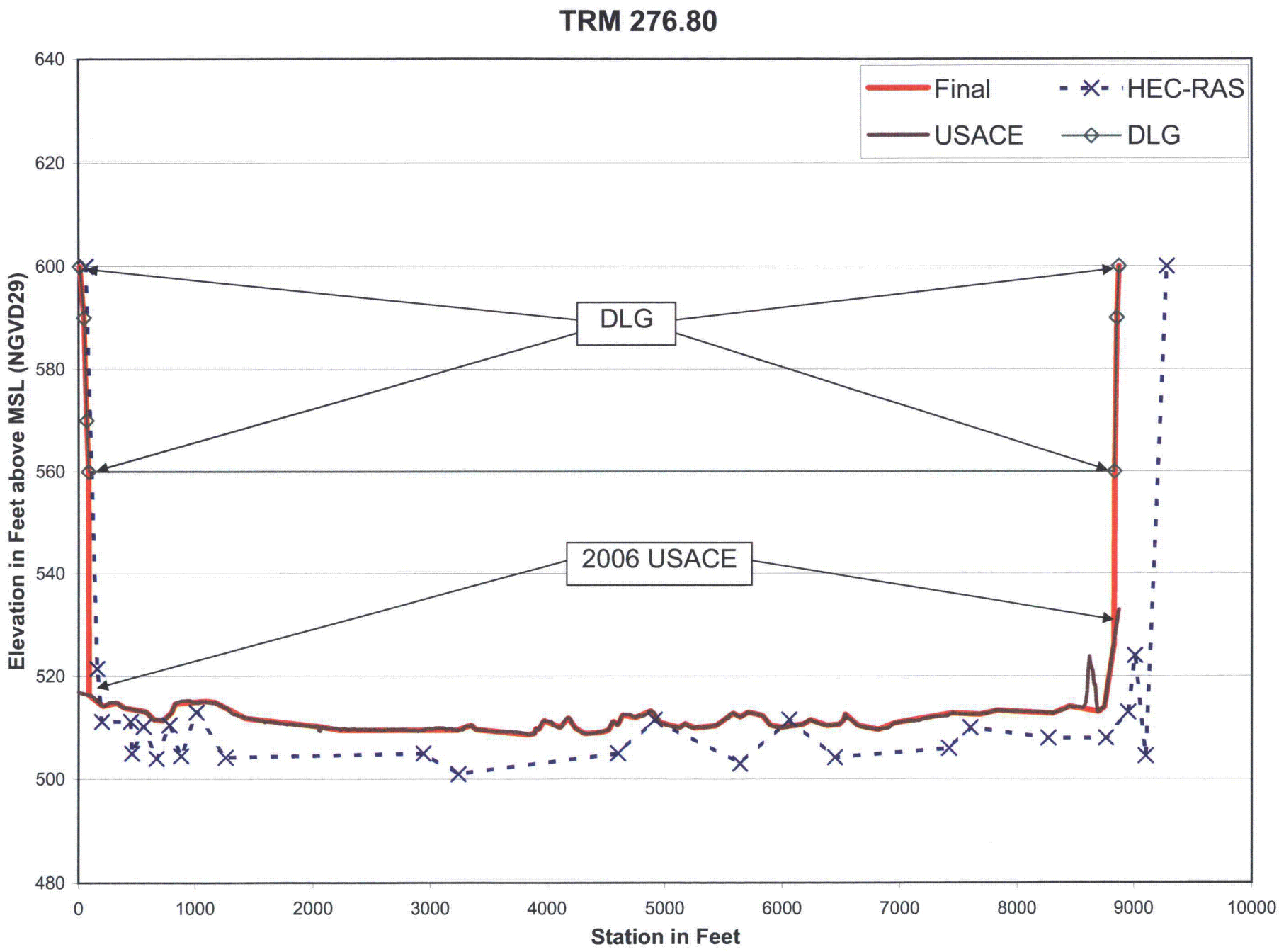
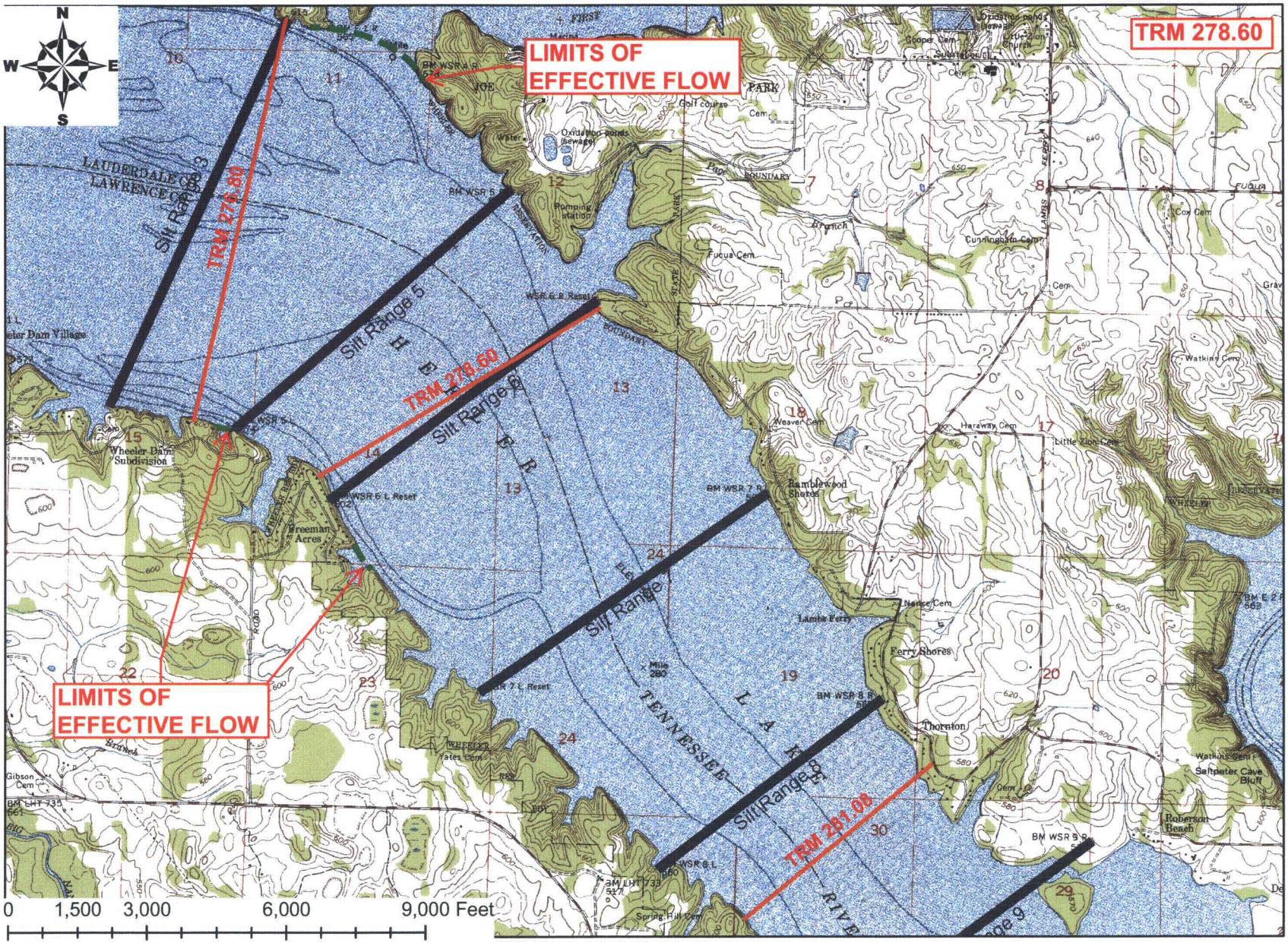
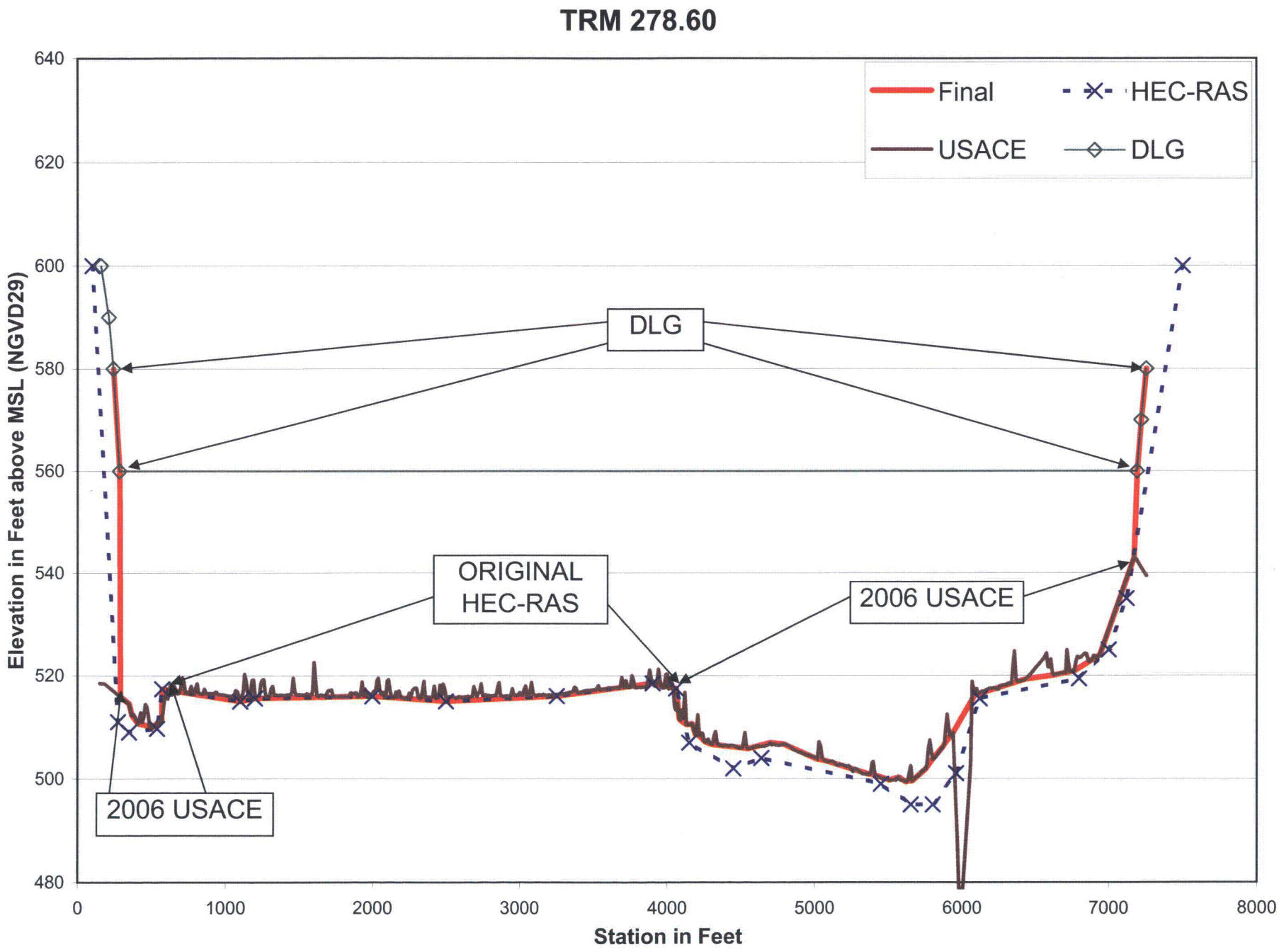

TRM 274.90
LIMITS OF EFFECTIVE FLOW
TRM 276.80
LIMITS OF EFFECTIVE FLOW
LINE 37 A
TRM 274.90
WHEELER DAM
LAUDERDALE CO
LAWRENCE CO
Silt Range 1
Silt Range 3
Wheeler Dam Village
Wheeler Dam
JOE WHEELER STATE PARK
0
1,000
2,000
4,000
6,000 Feet

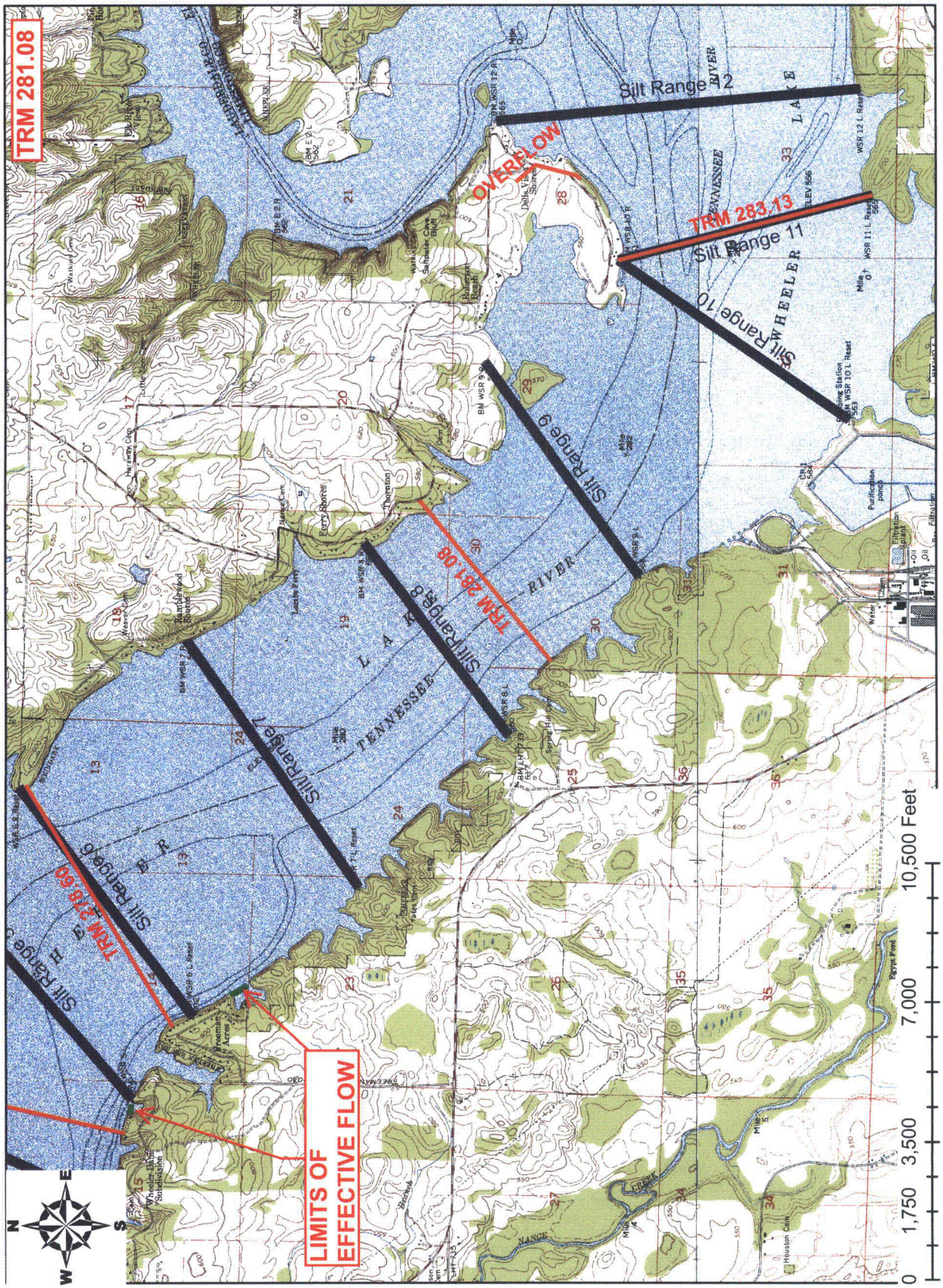

TRM 274.90
Final
HEC-RAS
DEM
DEM
ORIGINAL HEC-RAS
Elevation in Feet above MSL (NGVD29)
Station in Feet
640
620
600
580
560
540
520
500
480
0
1000
2000
3000
4000
5000
6000
7000
8000
9000

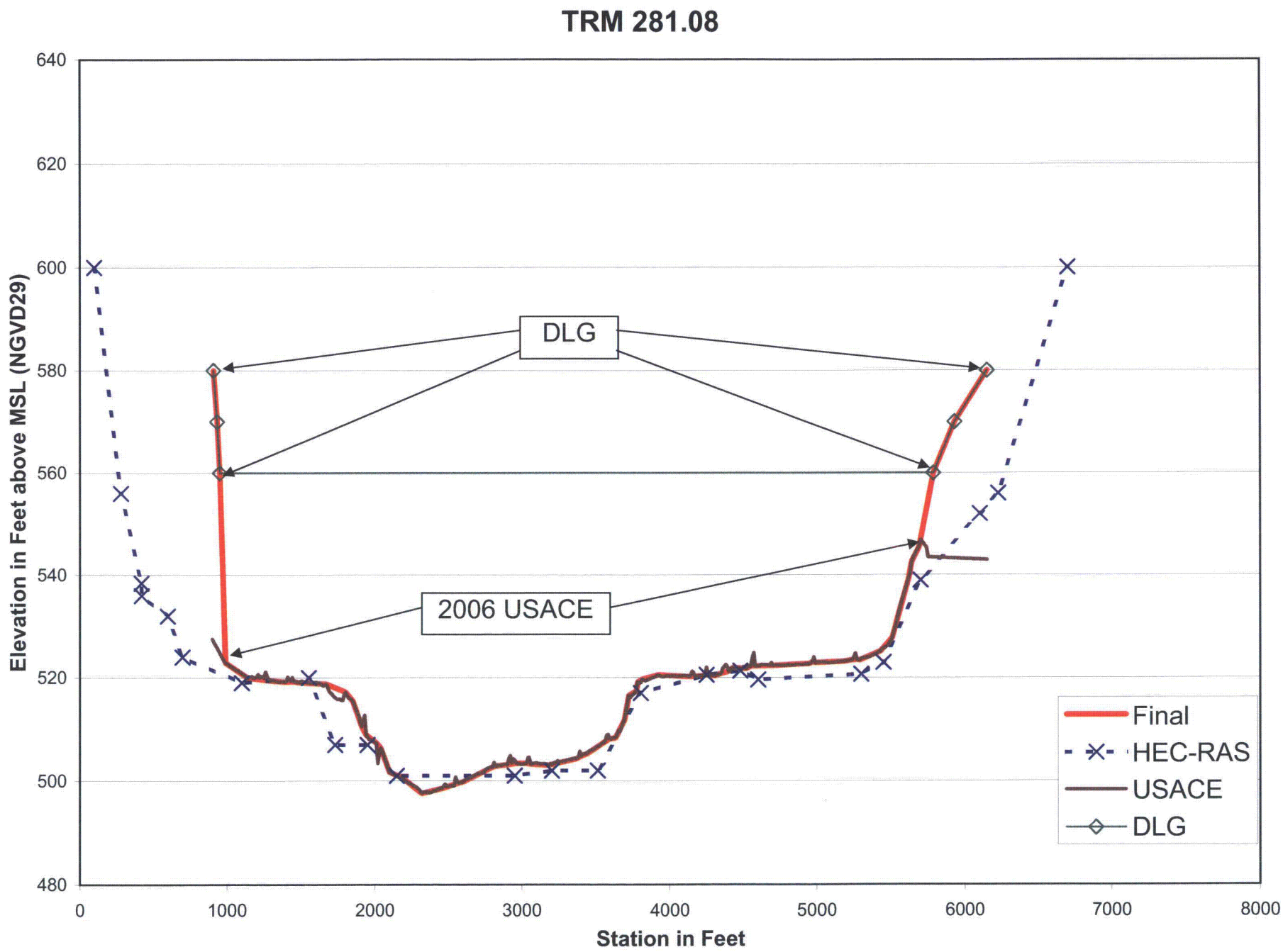

TRM 276.80
LIMITS OF EFFECTIVE FLOW
LIMITS OF EFFECTIVE FLOW
LINE 37 A
TRM 274.90
TRM 276.80
TRM 276.60
Silt Range 1
Silt Range 3
Silt Range 5
Silt Range 6
Silt Range 7
LAUDERDALE CO
LAWRENCE CO
JOE WHEELER STATE PARK
Wheeler Dam Village
Wheeler Dam Subdivision
Freeman Acres
0 1,500 3,000 6,000 9,000 Feet

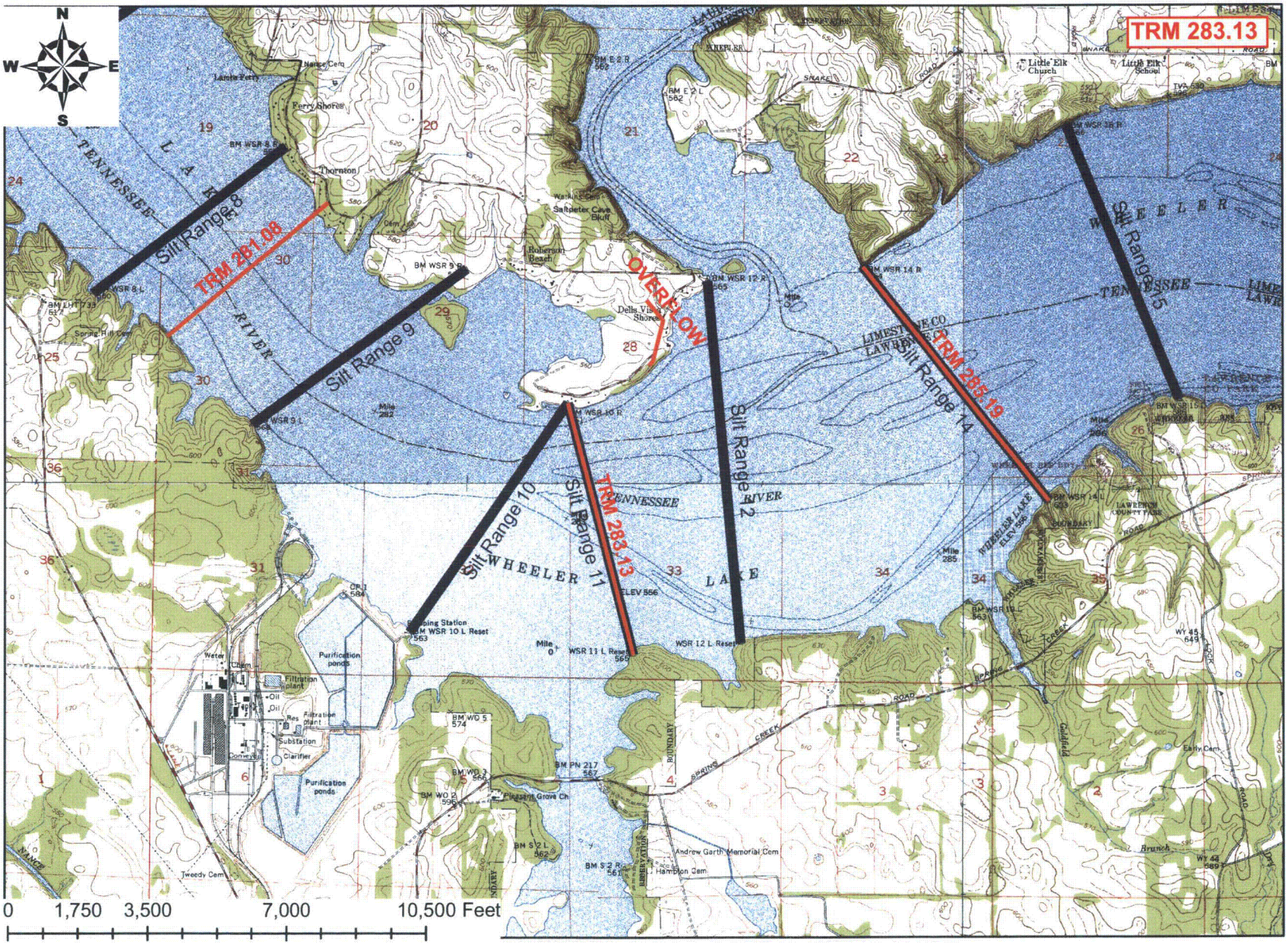

TRM 276.80
Final
HEC-RAS
USACE
DLG
DLG
2006 USACE
Elevation in Feet above MSL (NGVD29)
640
620
600
580
560
540
520
500
480
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
Station in Feet

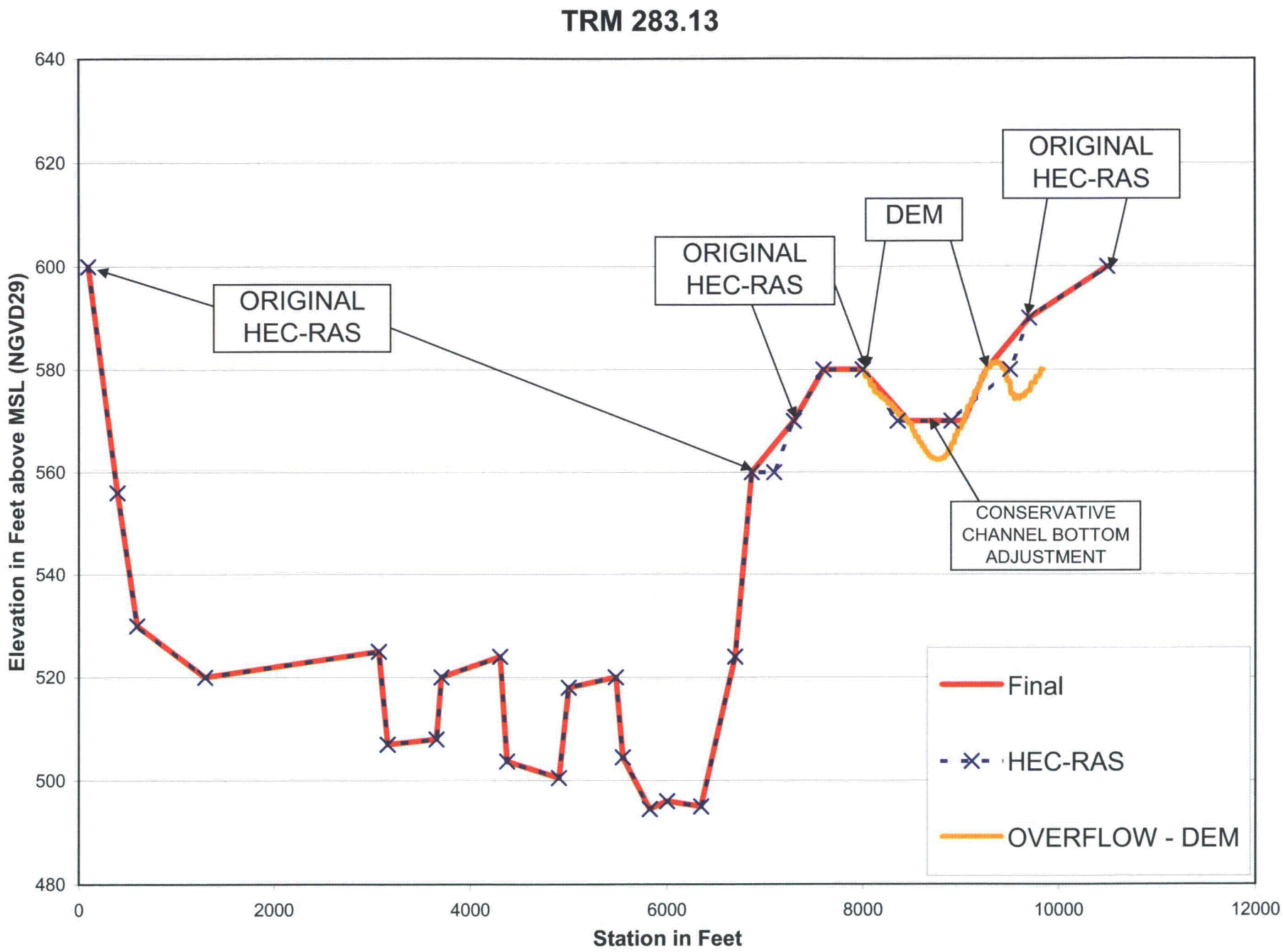

TRM 278.60
LIMITS OF EFFECTIVE FLOW
TRM 276.80
TRM 276.60
TRM 281.08
LIMITS OF EFFECTIVE FLOW
Silt Range 3
Silt Range 5
Silt Range 6
Silt Range 7
Silt Range 8
Silt Range 9
LAUDERDALE CO
LAWRENCE CO
Wheeler Dam Village
Wheeler Dam Subdivision
Freeman Acres
Ramblewood Shores
Lambs Ferry
Ferry Shores
Thornton
Saltpeter Cave Bluff
Roberson Beach
Oxidation ponds (sewage)
Pumping station
Golf course
Fuqua Cem
Cunningham Cem
Cox Cem
Watkins Cem
Little Zion Cem
Haraway Cem
Weaver Cem
Nance Cem
Yates Cem
Gibson Cem
Spring Hill Cem
TENNESSEE
RIVER
0 1,500 3,000 6,000 9,000 Feet

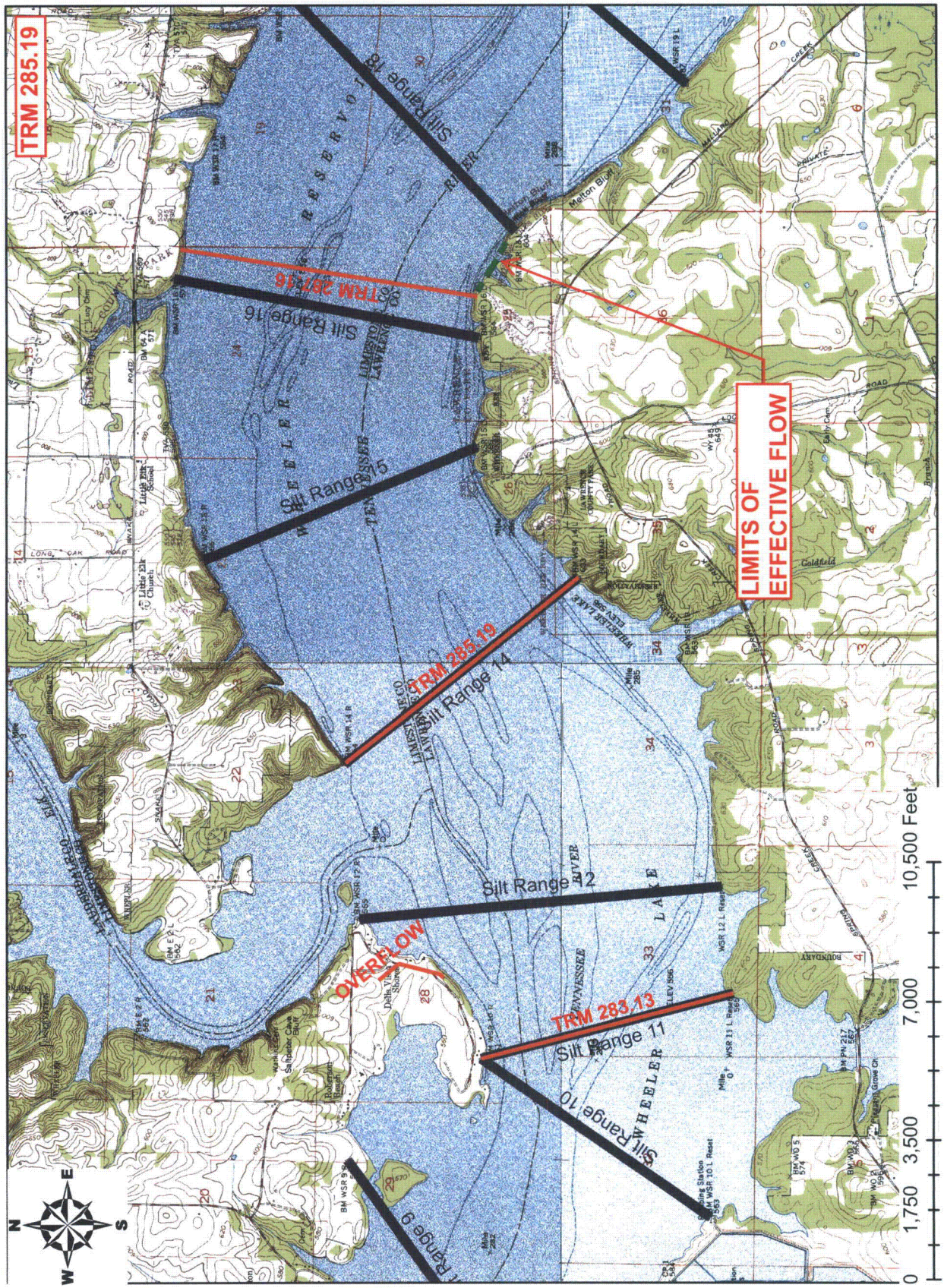

TRM 278.60
Final
HEC-RAS
USACE
DLG
DLG
ORIGINAL HEC-RAS
2006 USACE
2006 USACE
Elevation in Feet above MSL (NGVD29)
Station in Feet
640
620
600
580
560
540
520
500
480
0
1000
2000
3000
4000
5000
6000
7000
8000

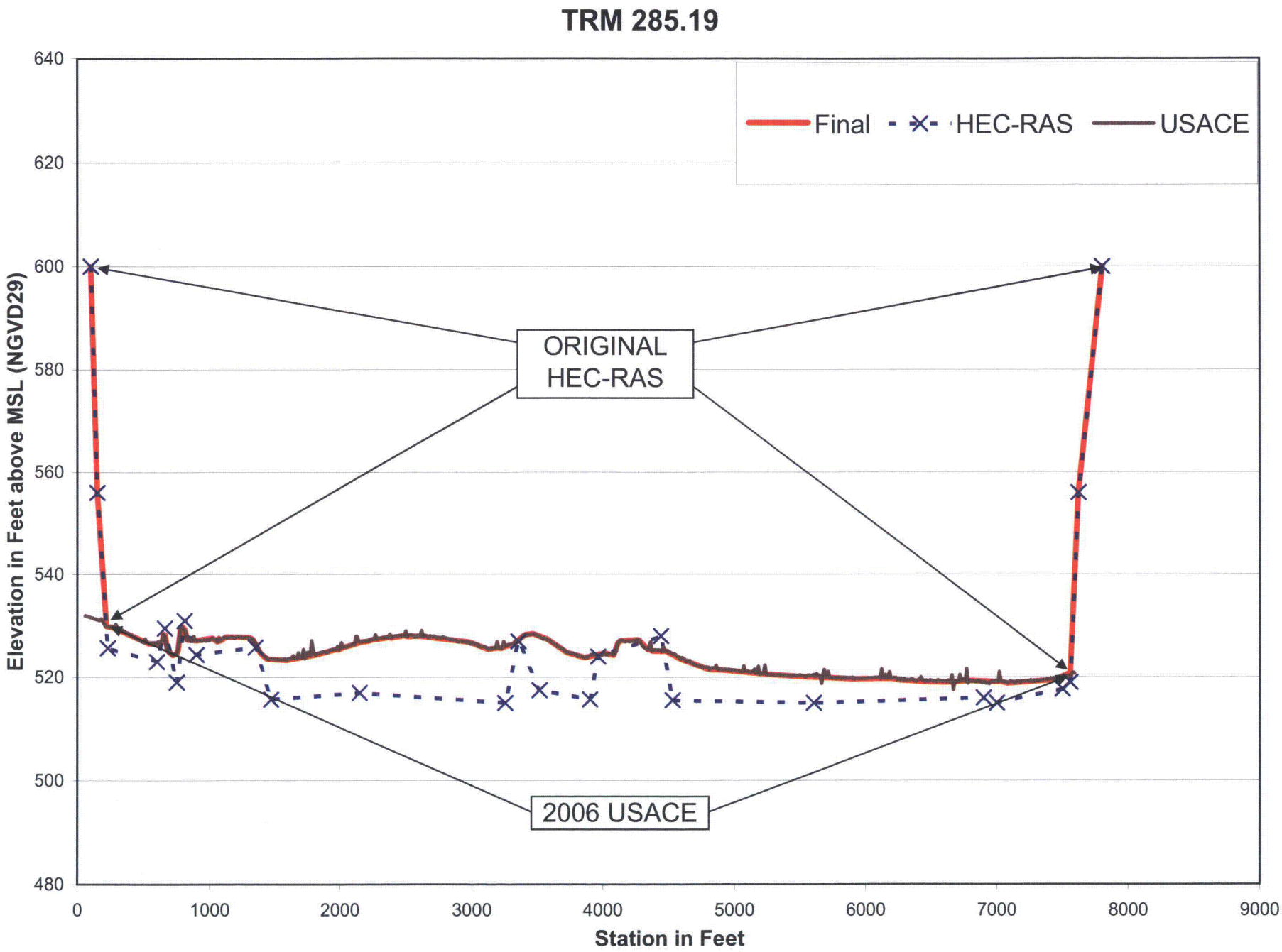

TRM 281.08
Silt Range 12
OVERFLOW
TRM 283.13
Silt Range 11
Silt Range 10
Silt Range 9
TRM 281.08
Silt Range 8
Silt Range 7
TRM 278.60
Silt Range 6
LIMITS OF EFFECTIVE FLOW
TENNESSEE
RIVER
LAKE
WHEELER
N
S
E
W
0
1,750
3,500
7,000
10,500 Feet

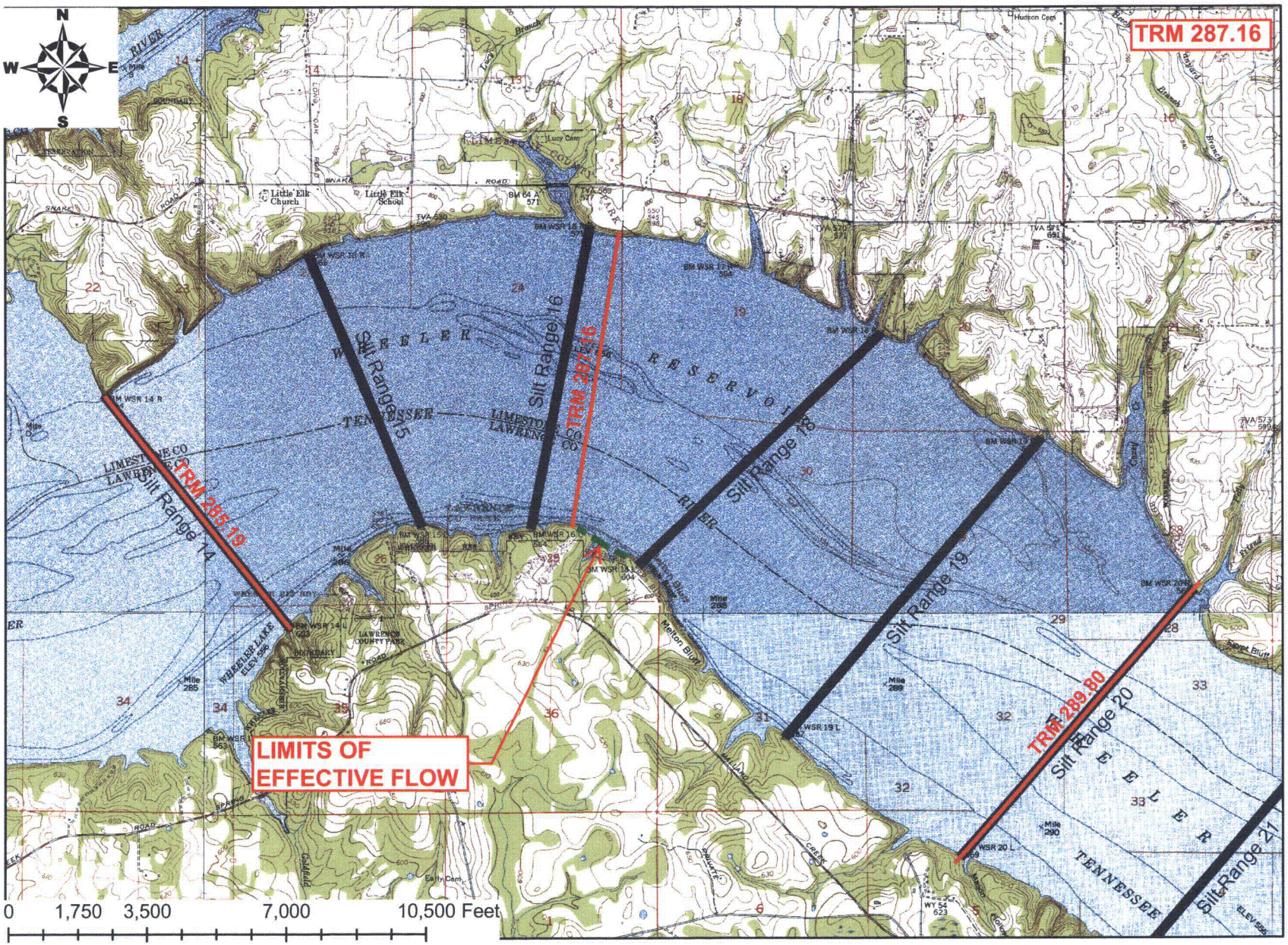

TRM 281.08
Elevation in Feet above MSL (NGVD29)
640
620
600
580
560
540
520
500
480
0
1000
2000
3000
4000
5000
6000
7000
8000
Station in Feet
DLG
2006 USACE
Final
HEC-RAS
USACE
DLG

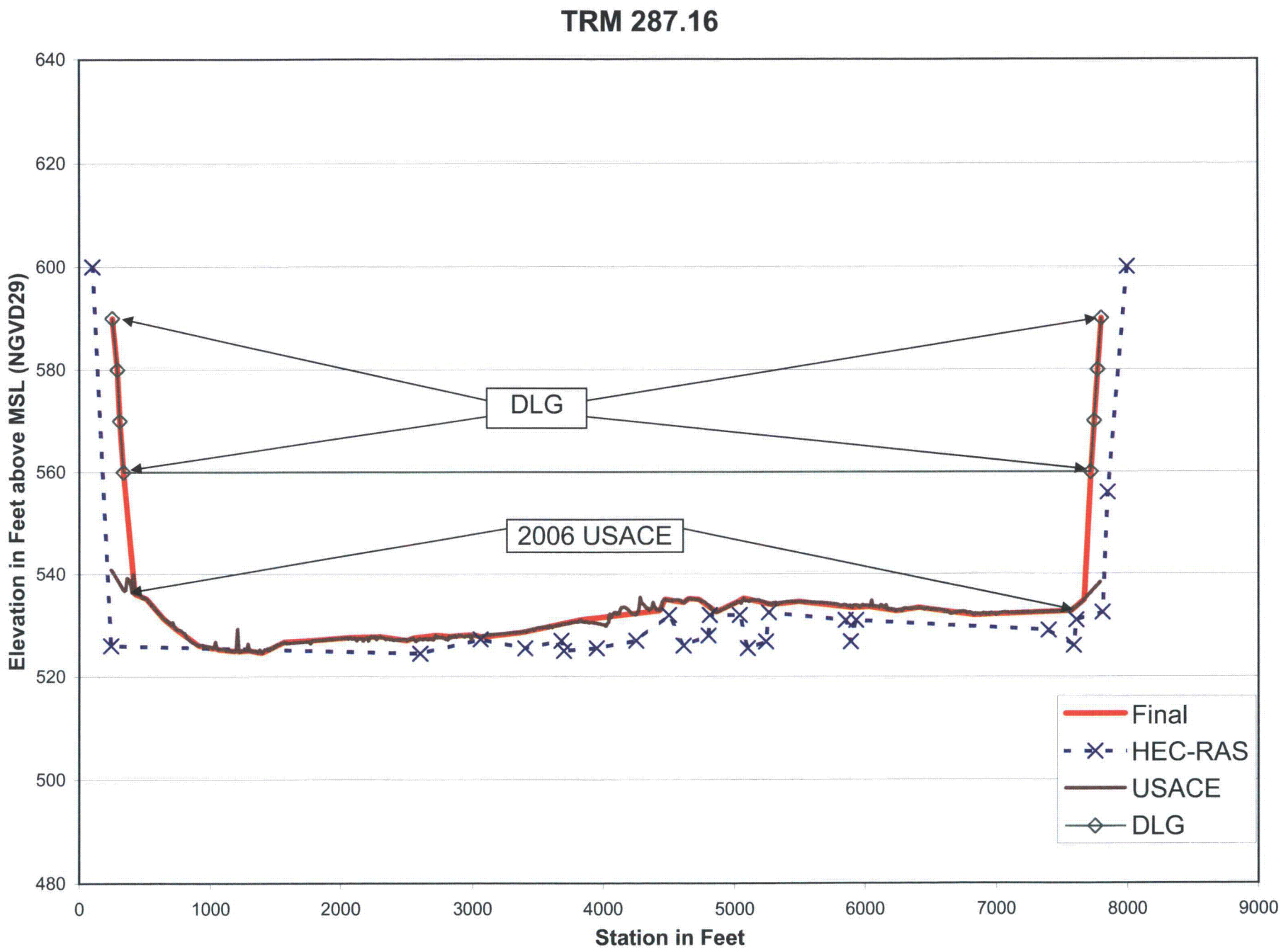

TRM 283.13
TRM 281.08
TRM 283.13
TRM 285.19
OVERFLOW
Silt Range 8
Silt Range 9
Silt Range 10
Silt Range 11
Silt Range 12
Silt Range 14
Silt Range 15
WHEELER LAKE
TENNESSEE RIVER
0 1,750 3,500 7,000 10,500 Feet

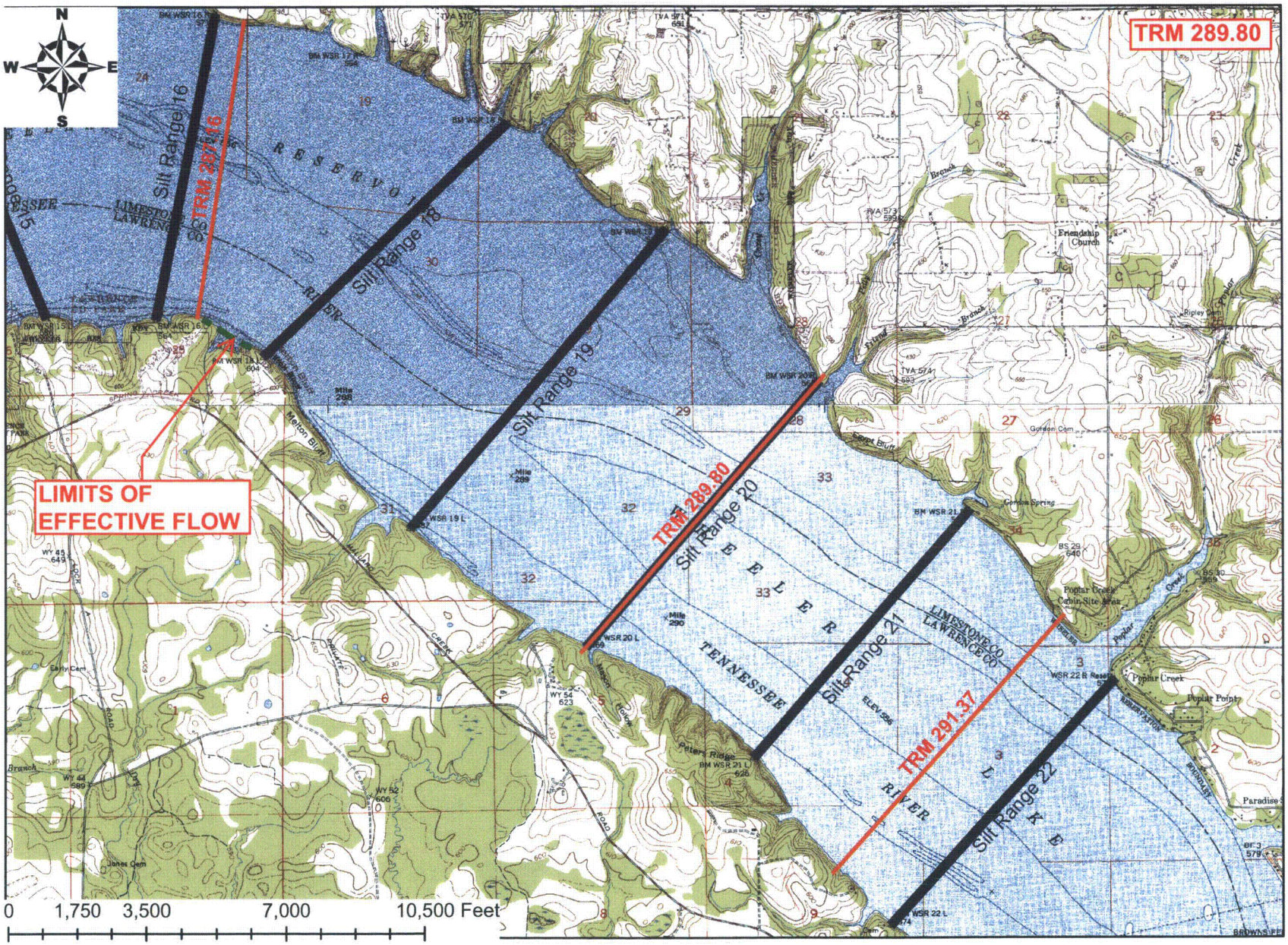

TRM 283.13
Elevation in Feet above MSL (NGVD29)
640
620
600
580
560
540
520
500
480
0
2000
4000
6000
8000
10000
12000
Station in Feet
ORIGINAL HEC-RAS
ORIGINAL HEC-RAS
DEM
ORIGINAL HEC-RAS
CONSERVATIVE CHANNEL BOTTOM ADJUSTMENT
Final
HEC-RAS
OVERFLOW - DEM

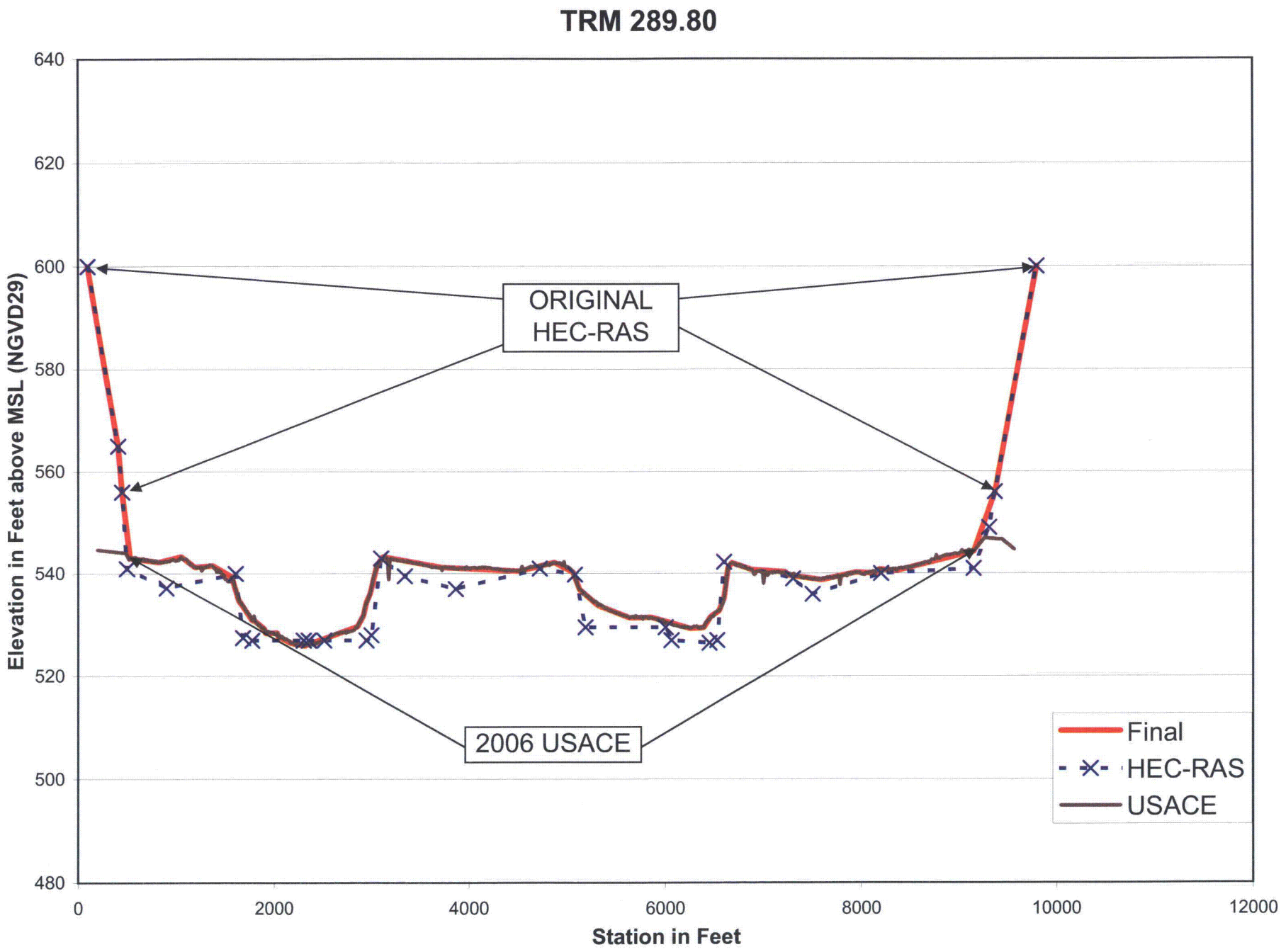

TRM 285.19
Silt Range 16
TRM 287.16
Silt Range 15
TRM 285.19
Silt Range 14
Silt Range 12
OVERFLOW
TRM 283.13
Silt Range 11
Silt Range 10
Silt Range 9
LIMITS OF
EFFECTIVE FLOW
WHEELER RESERVOIR
TENNESSEE RIVER
N
S
E
W
0
1,750
3,500
7,000
10,500 Feet

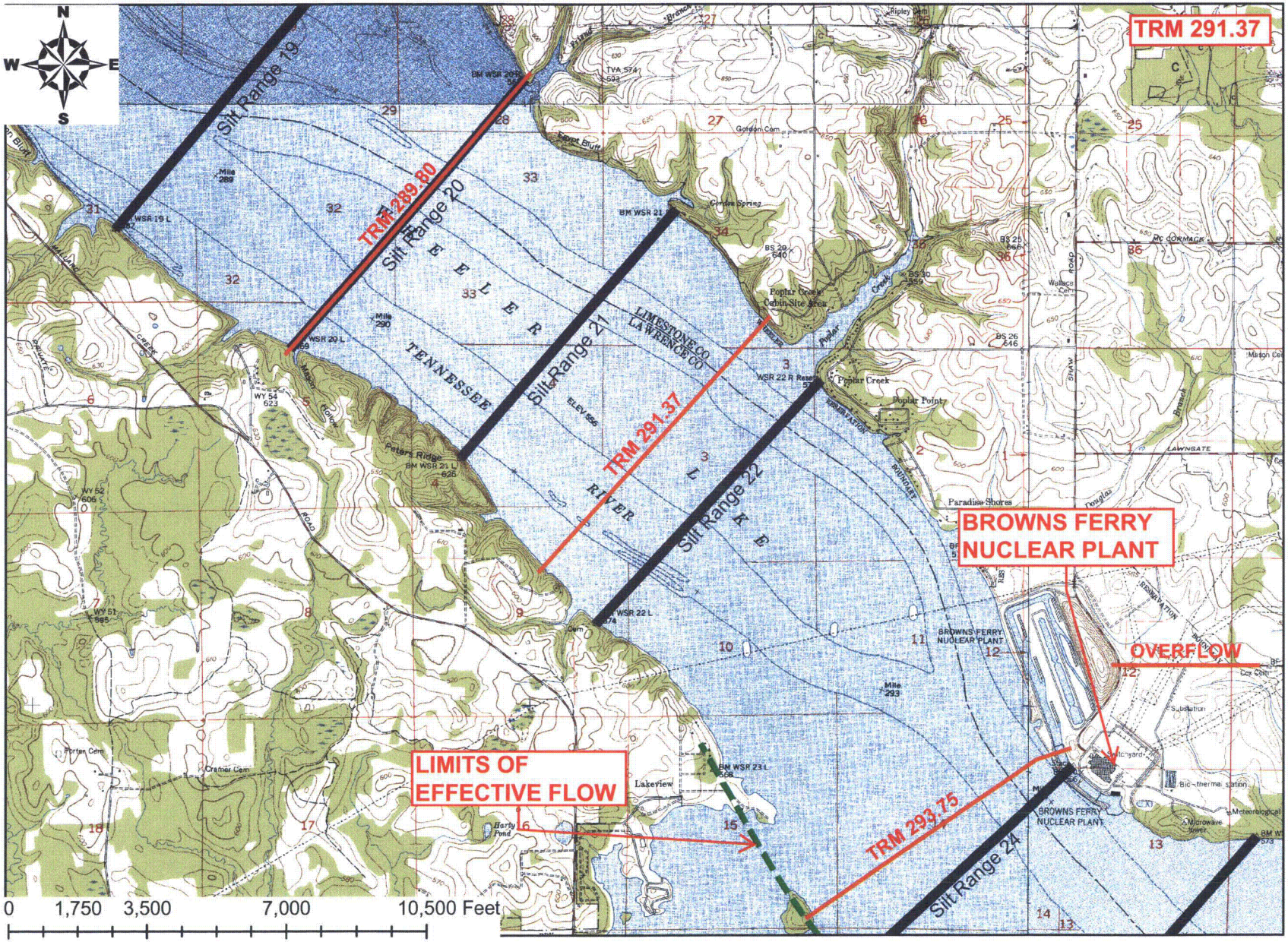

TRM 285.19
Final
HEC-RAS
USACE
ORIGINAL HEC-RAS
2006 USACE
Elevation in Feet above MSL (NGVD29)
Station in Feet
640
620
600
580
560
540
520
500
480
0
1000
2000
3000
4000
5000
6000
7000
8000
9000

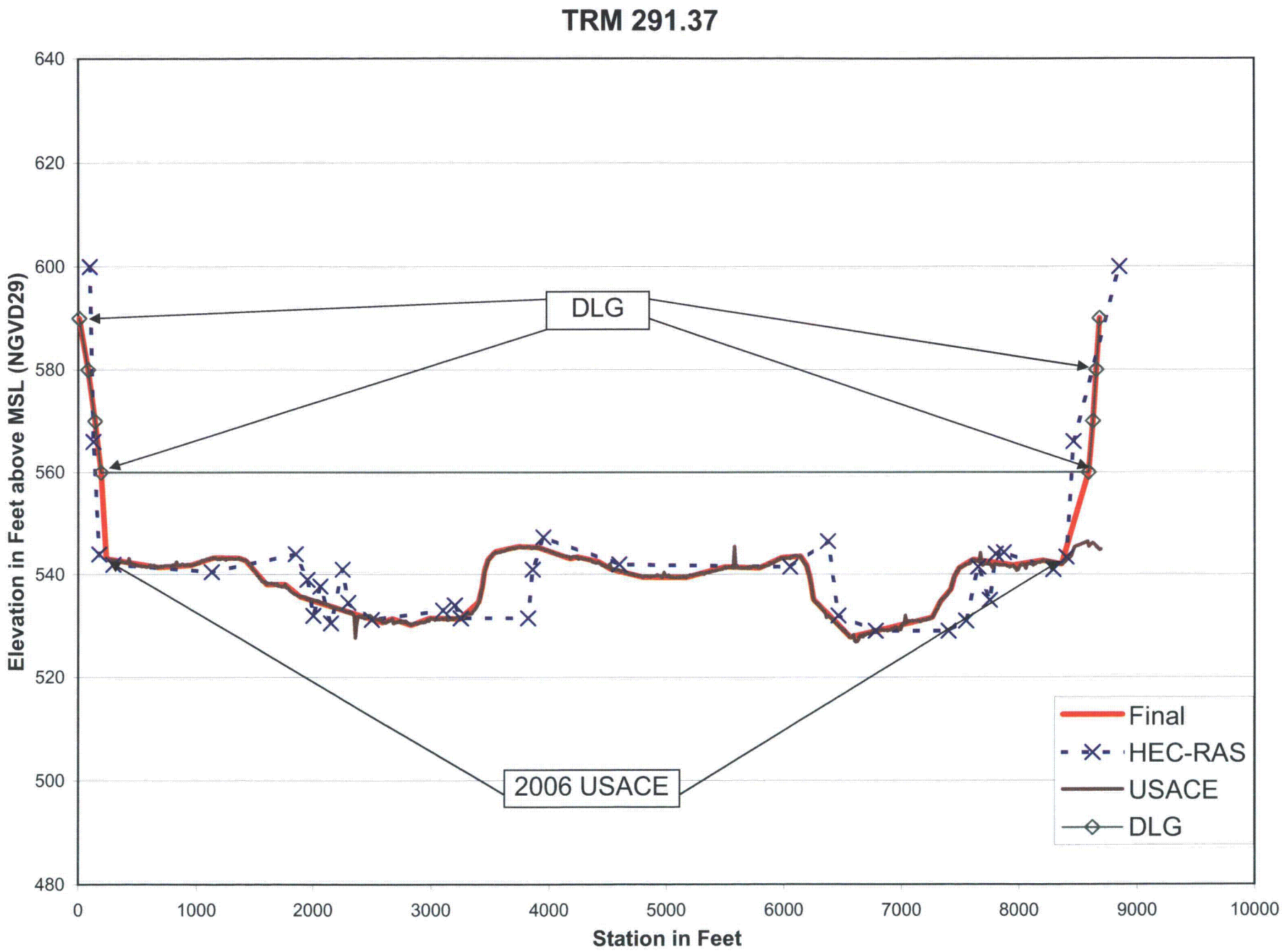

N
W
E
S
TRM 287.16
TRM 287.16
TRM 285.19
TRM 289.80
Silt Range 14
Silt Range 15
Silt Range 16
Silt Range 18
Silt Range 19
Silt Range 20
Silt Range 21
WHEELER RESERVOIR
TENNESSEE RIVER
LIMITS OF EFFECTIVE FLOW
0 1,750 3,500 7,000 10,500 Feet

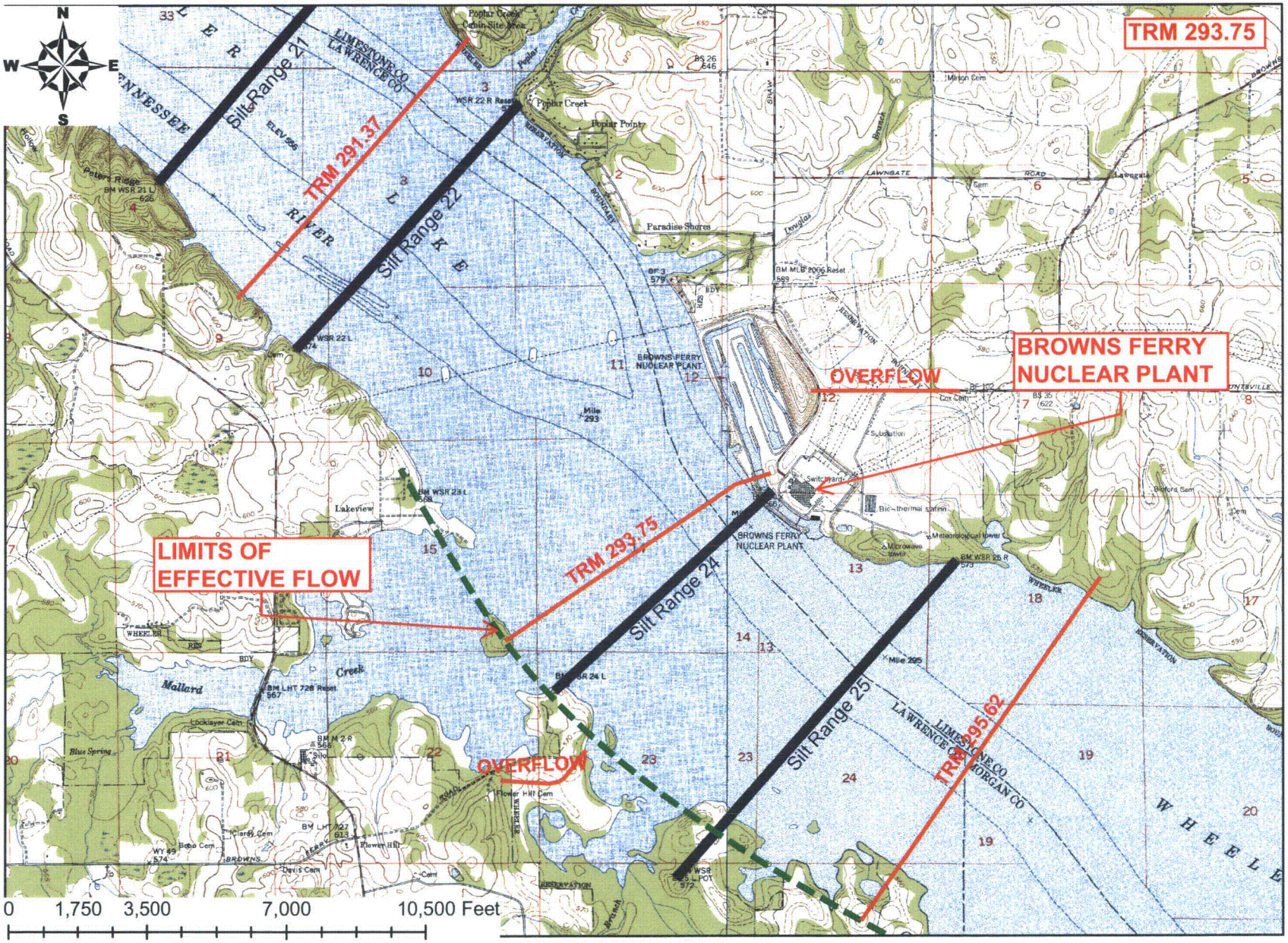

TRM 287.16
Elevation in Feet above MSL (NGVD29)
640
620
600
580
560
540
520
500
480
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
Station in Feet
DLG
2006 USACE
Final
HEC-RAS
USACE
DLG

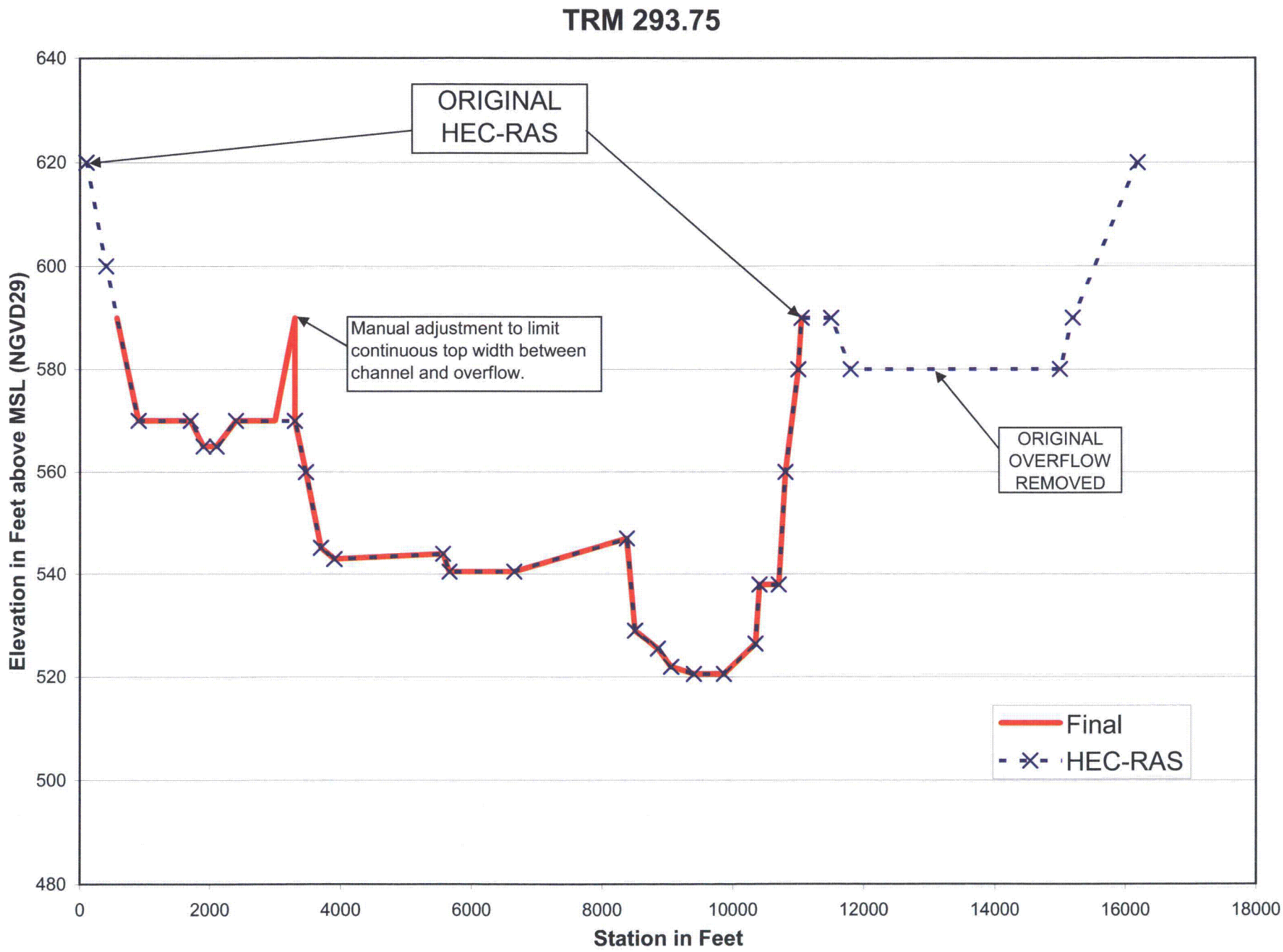

N
W
E
S
TRM 289.80
Silt Range 16
TRM 287.16
Silt Range 18
Silt Range 19
Silt Range 20
TRM 289.80
Silt Range 21
TRM 291.37
Silt Range 22
LIMITS OF
EFFECTIVE FLOW
RESERVOIR
TENNESSEE
RIVER
LIMESTONE CO
LAWRENCE CO
Friendship Church
Gordon Cem
Gordon Spring
Poplar Creek Cabin Site Area
Poplar Creek
Poplar Point
Paradise
Melton Bluff
Peters Ridge
Jones Cem
0
1,750
3,500
7,000
10,500 Feet

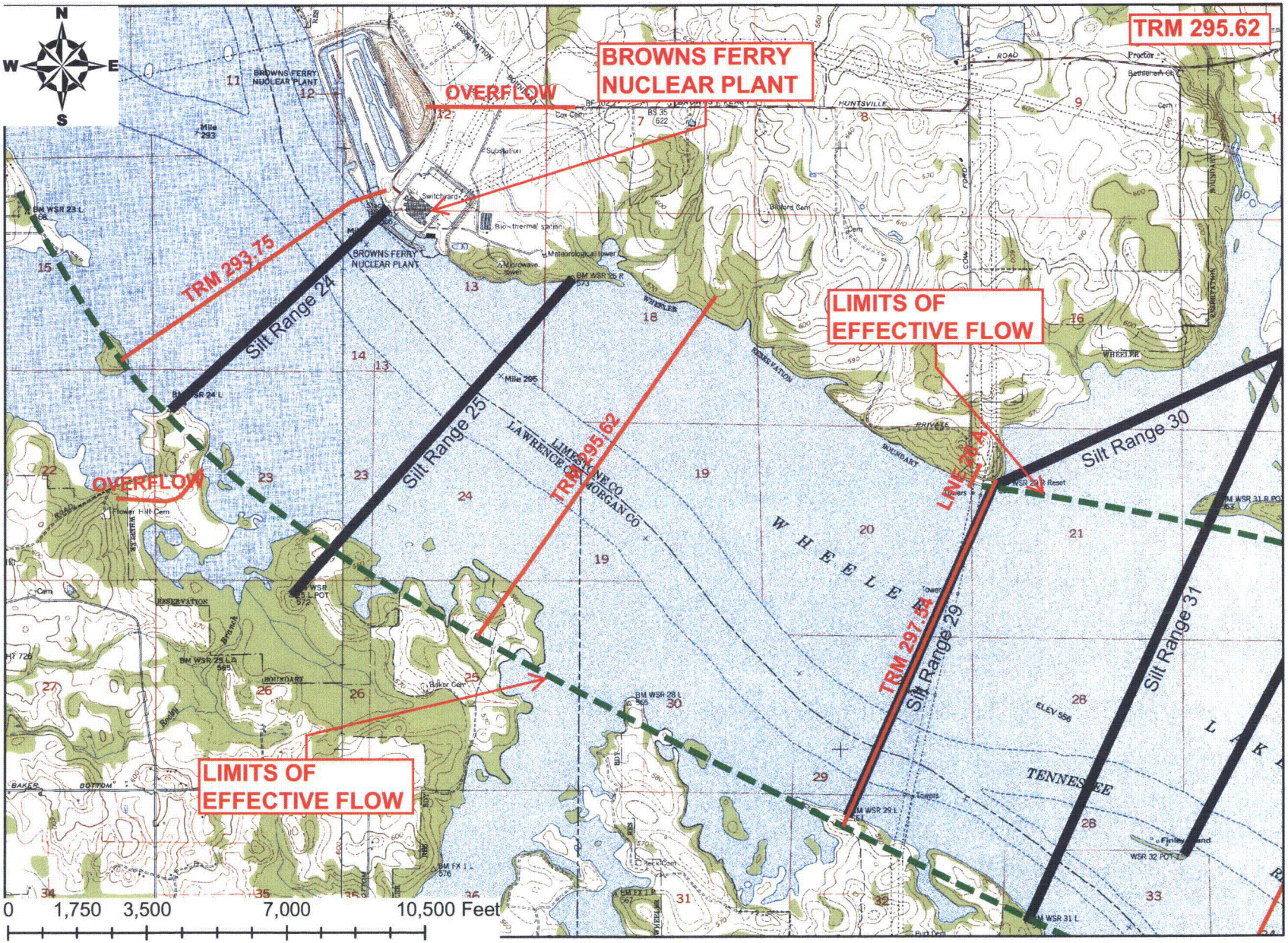

TRM 289.80
Elevation in Feet above MSL (NGVD29)
640
620
600
580
560
540
520
500
480
0
2000
4000
6000
8000
10000
12000
Station in Feet
ORIGINAL HEC-RAS
2006 USACE
Final
HEC-RAS
USACE

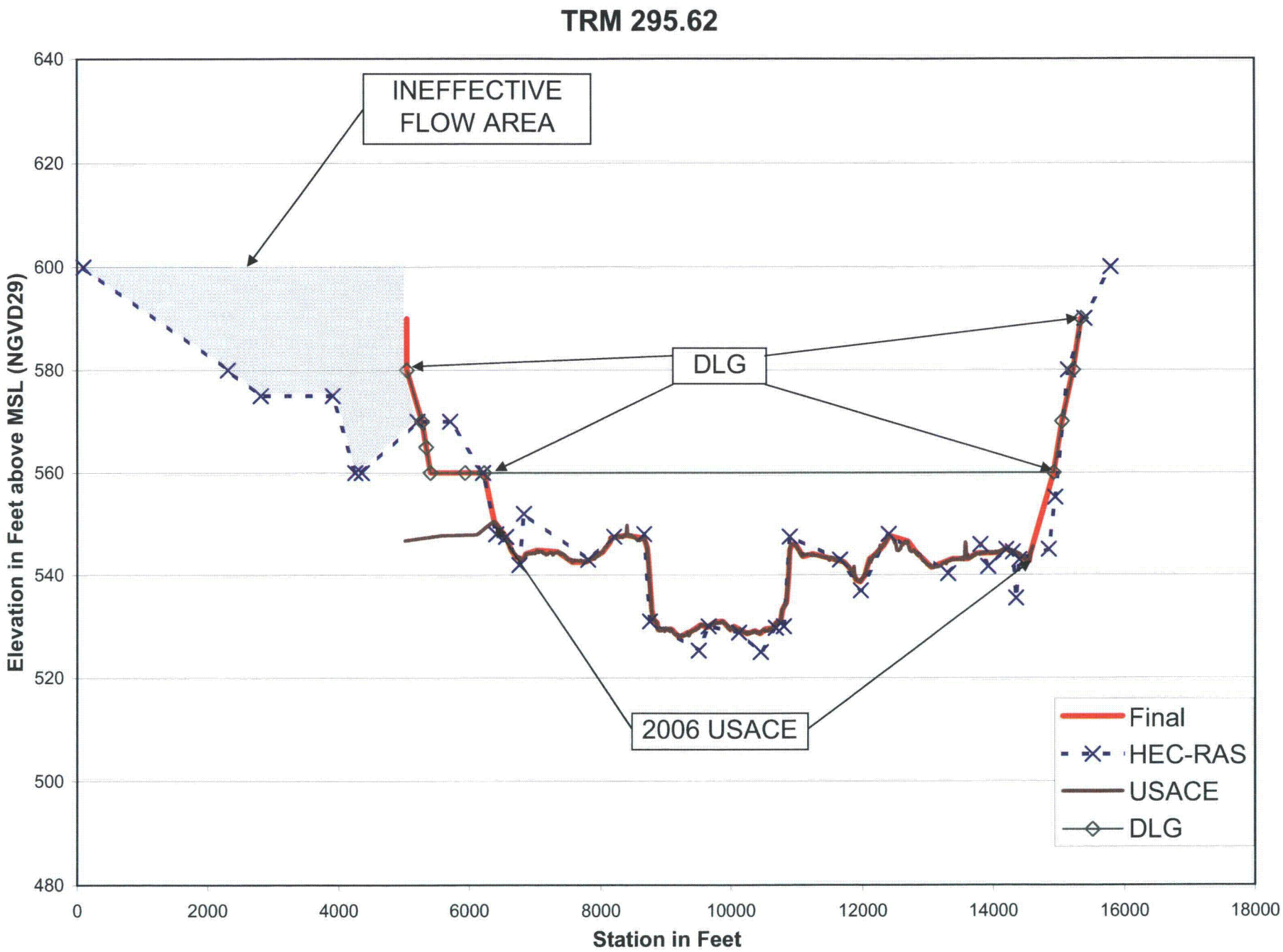

N
S
E
W
TRM 291.37
TRM 289.80
TRM 291.37
TRM 293.75
Silt Range 19
Silt Range 20
Silt Range 21
Silt Range 22
Silt Range 24
TENNESSEE
RIVER
LAKE
BROWNS FERRY NUCLEAR PLANT
OVERFLOW
LIMITS OF EFFECTIVE FLOW
0 1,750 3,500 7,000 10,500 Feet

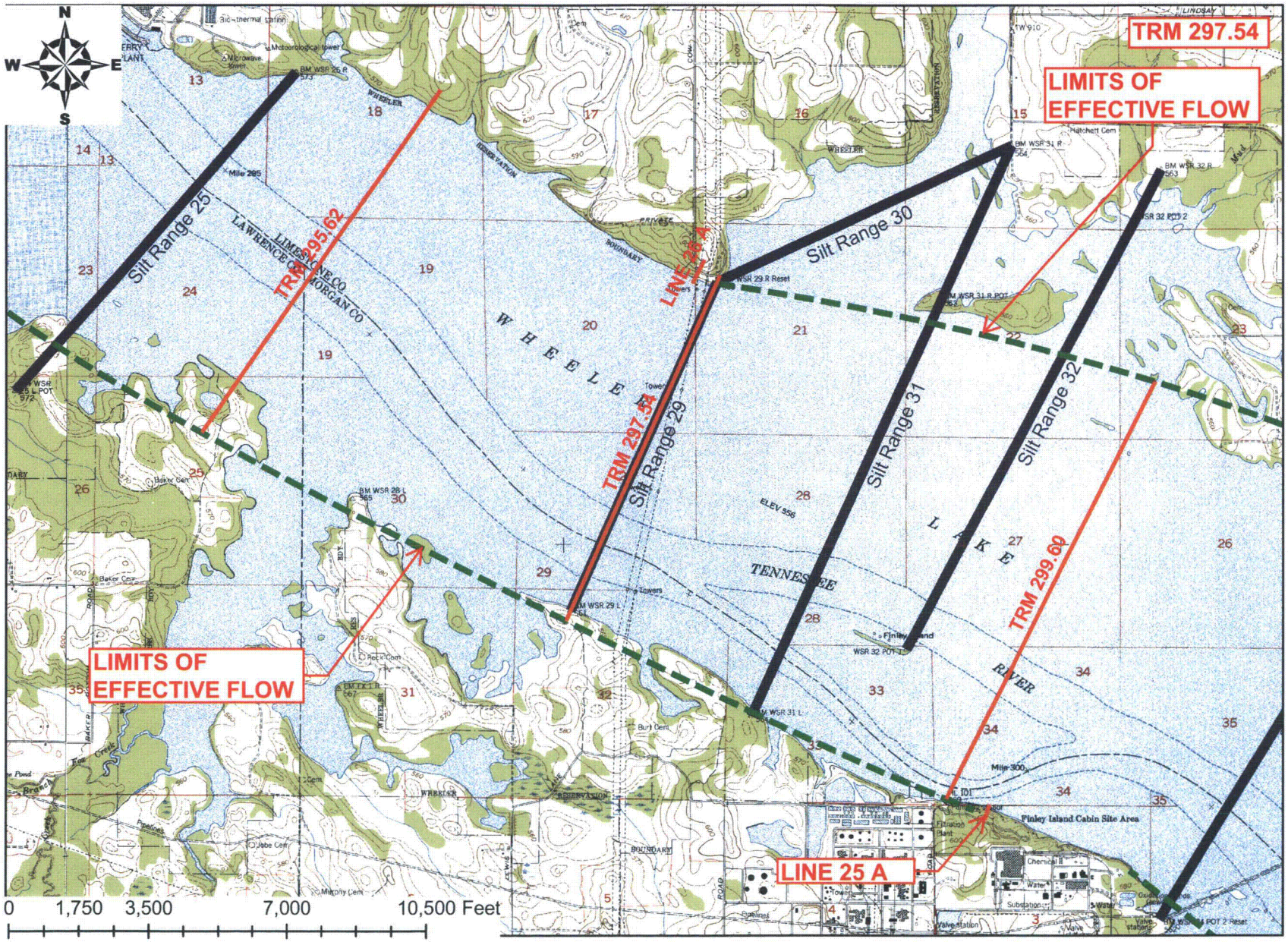

TRM 291.37
Elevation in Feet above MSL (NGVD29)
640
620
600
580
560
540
520
500
480
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
Station in Feet
DLG
2006 USACE
Final
HEC-RAS
USACE
DLG

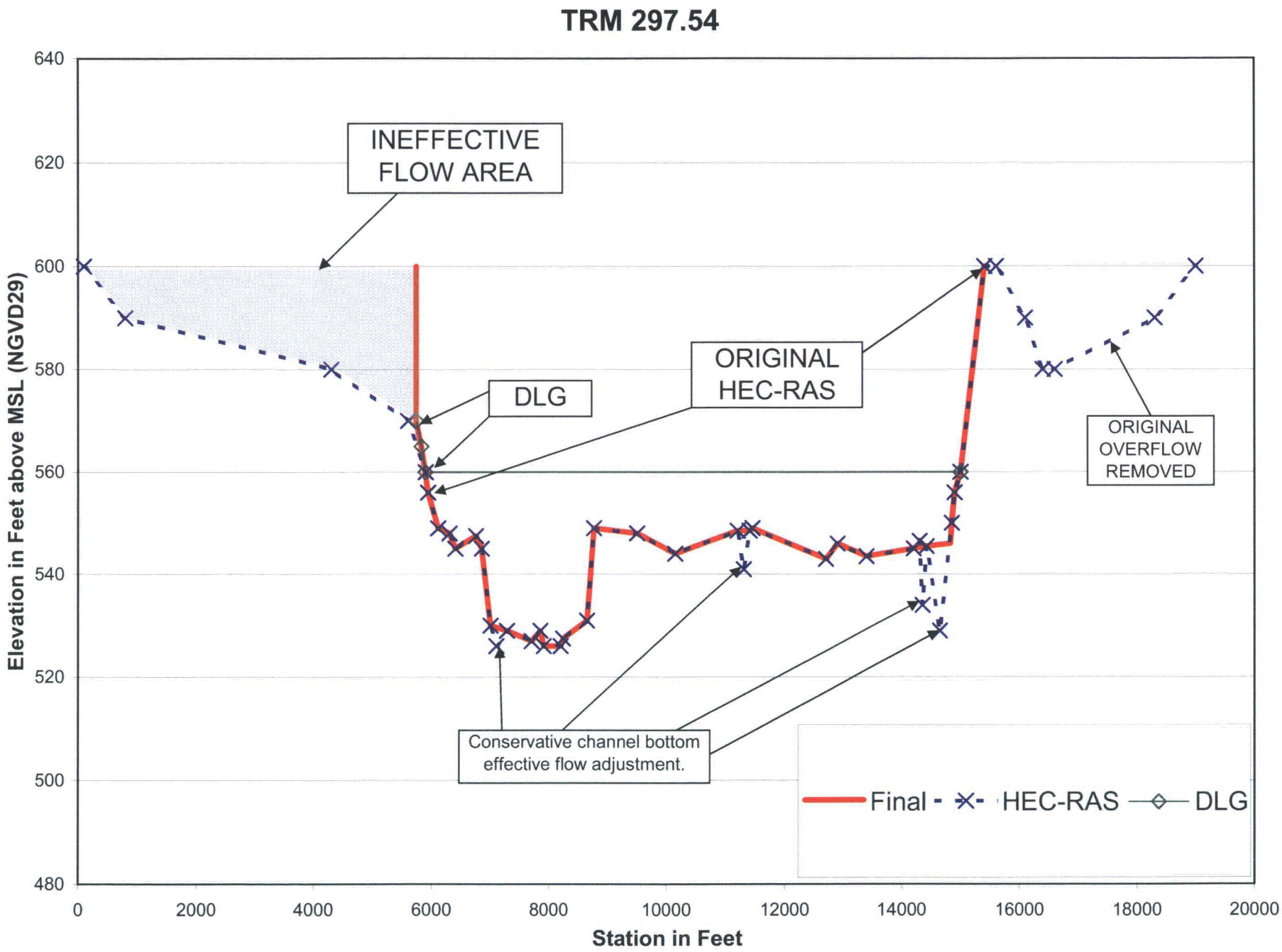

TRM 293.75
BROWNS FERRY NUCLEAR PLANT
OVERFLOW
LIMITS OF EFFECTIVE FLOW
TRM 291.37
TRM 293.75
TRM 295.62
Silt Range 21
Silt Range 22
Silt Range 24
Silt Range 25
OVERFLOW
N
S
E
W
0 1,750 3,500 7,000 10,500 Feet

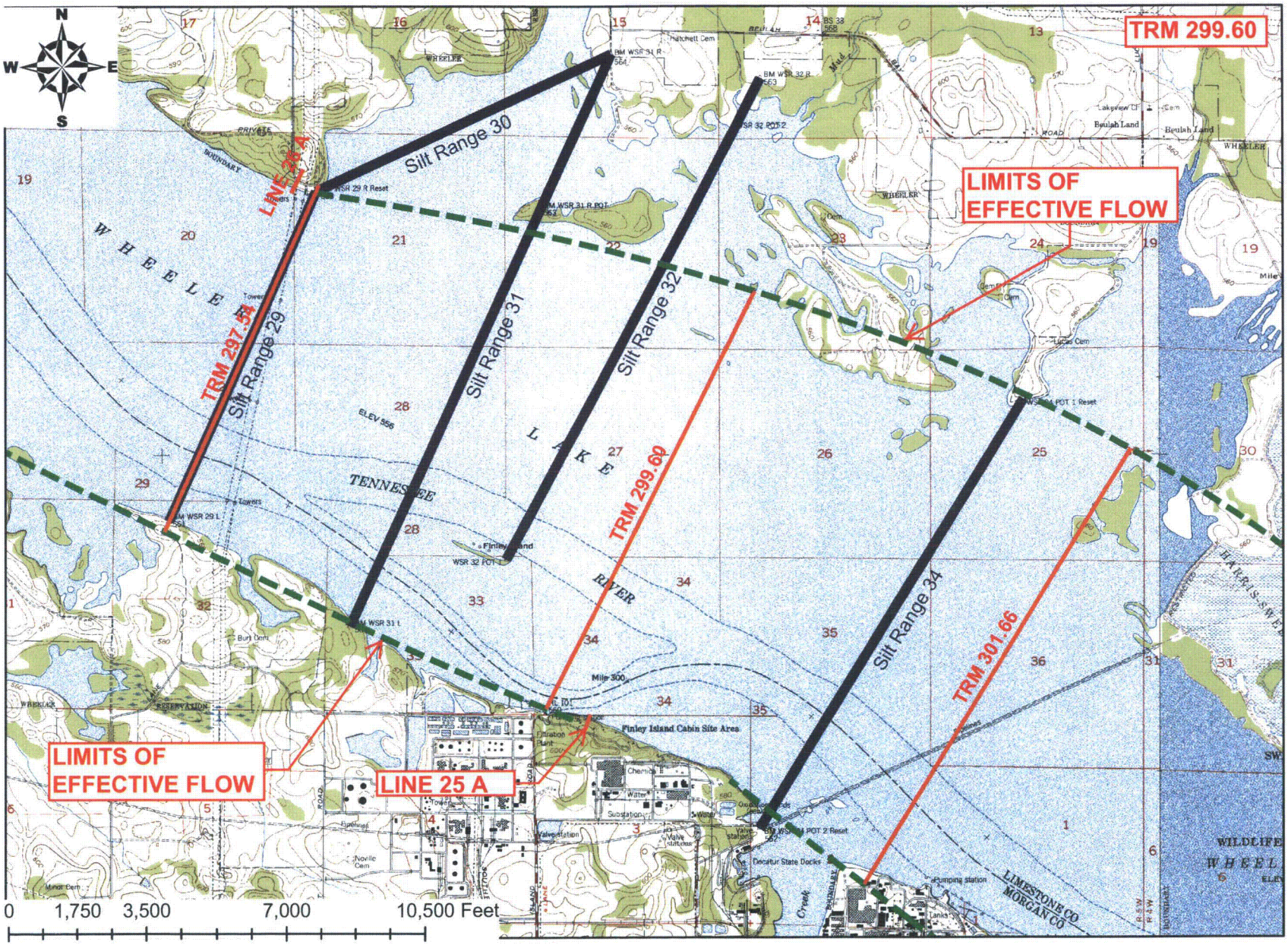

TRM 293.75
ORIGINAL HEC-RAS
Manual adjustment to limit continuous top width between channel and overflow.
ORIGINAL OVERFLOW REMOVED
Final
HEC-RAS
Elevation in Feet above MSL (NGVD29)
Station in Feet
640
620
600
580
560
540
520
500
480
0
2000
4000
6000
8000
10000
12000
14000
16000
18000

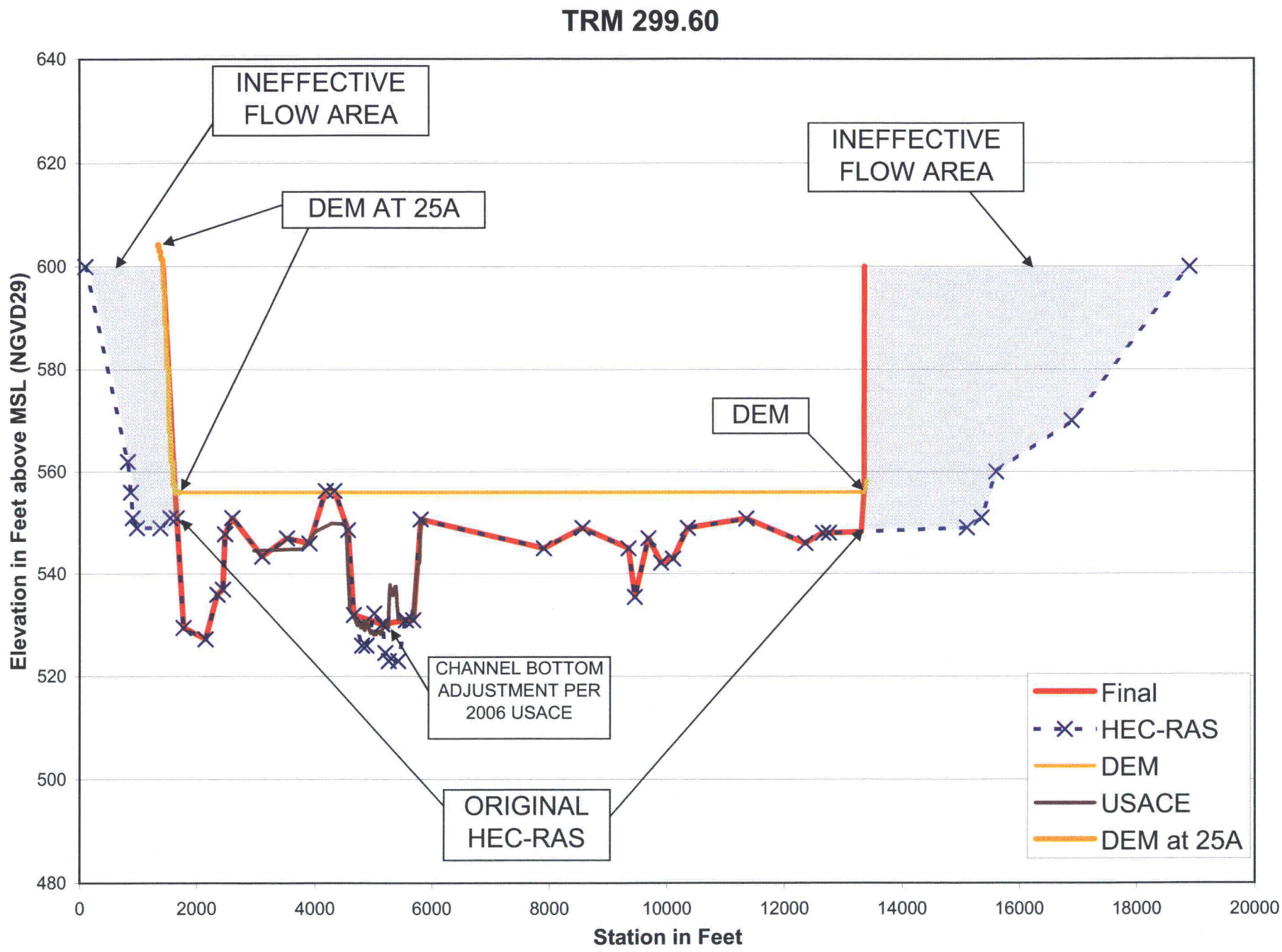

N
S
E
W
TRM 295.62
BROWNS FERRY NUCLEAR PLANT
OVERFLOW
TRM 293.75
Silt Range 24
Silt Range 25
TRM 295.62
LIMITS OF EFFECTIVE FLOW
Silt Range 30
LINE 28.4
TRM 297.54
Silt Range 29
Silt Range 31
OVERFLOW
LIMITS OF EFFECTIVE FLOW
WHEELER
TENNESSEE
0 1,750 3,500 7,000 10,500 Feet

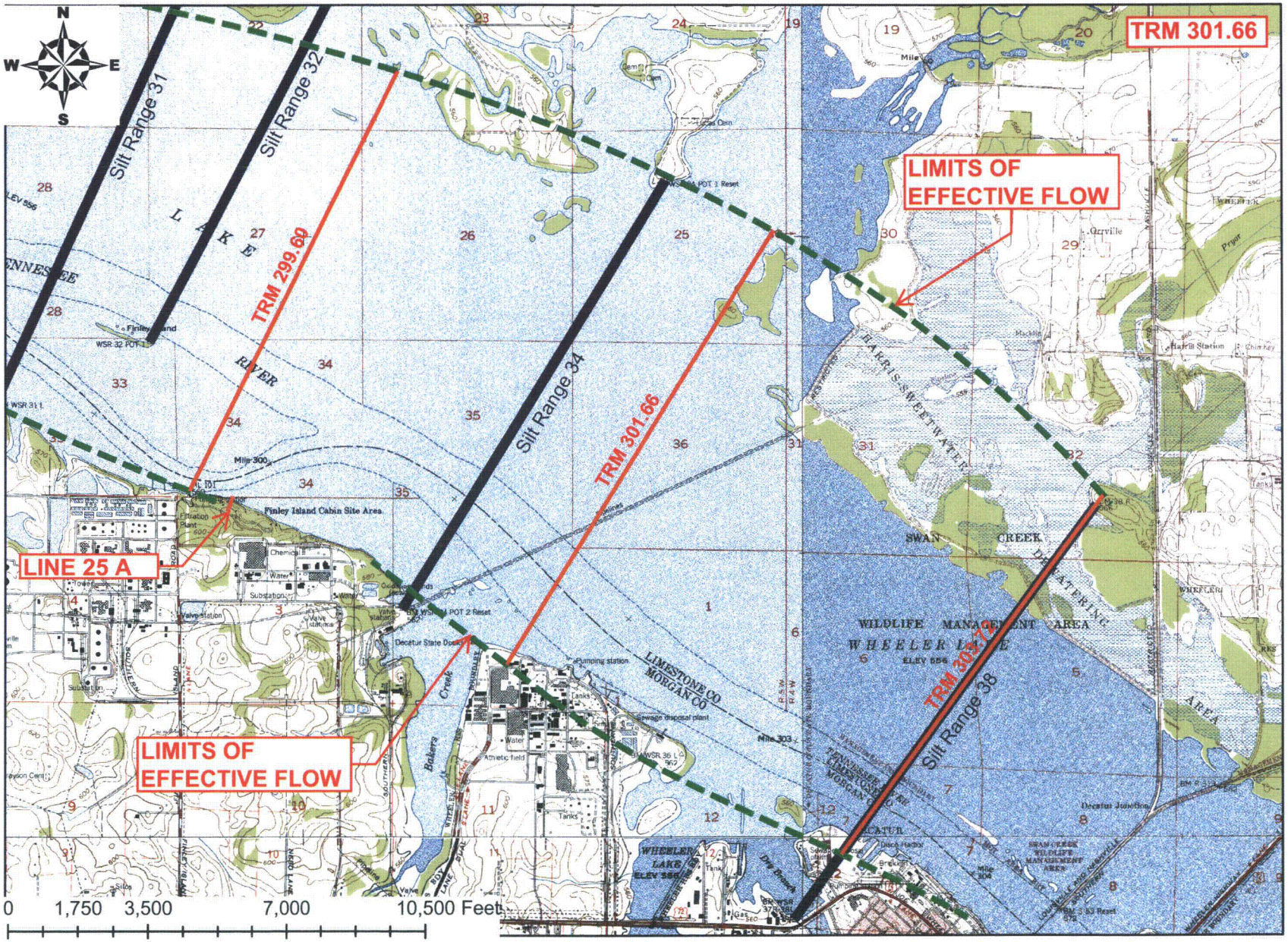

TRM 295.62
INEFFECTIVE FLOW AREA
DLG
2006 USACE
Final
HEC-RAS
USACE
DLG
Elevation in Feet above MSL (NGVD29)
Station in Feet
640
620
600
580
560
540
520
500
480
0
2000
4000
6000
8000
10000
12000
14000
16000
18000

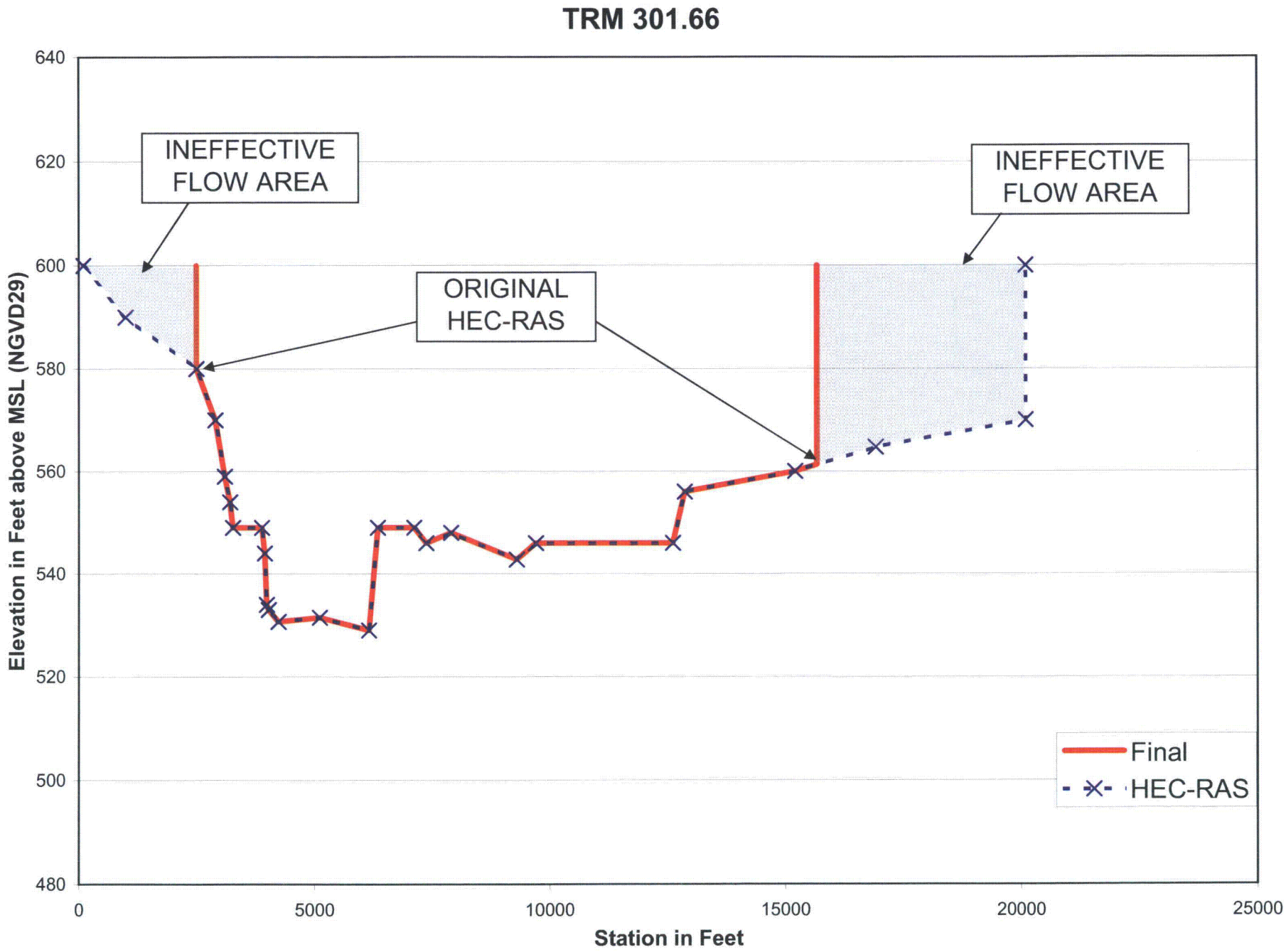

N
S
E
W
TRM 297.54
LIMITS OF EFFECTIVE FLOW
Silt Range 25
Silt Range 29
Silt Range 30
Silt Range 31
Silt Range 32
TRM 295.62
LINE 28 A
TRM 297.54
TRM 299.60
LIMITS OF EFFECTIVE FLOW
LINE 25 A
WHEELER
LAKE
TENNESSEE
RIVER
LIMESTONE CO
MORGAN CO
Finley Island Cabin Site Area
0 1,750 3,500 7,000 10,500 Feet

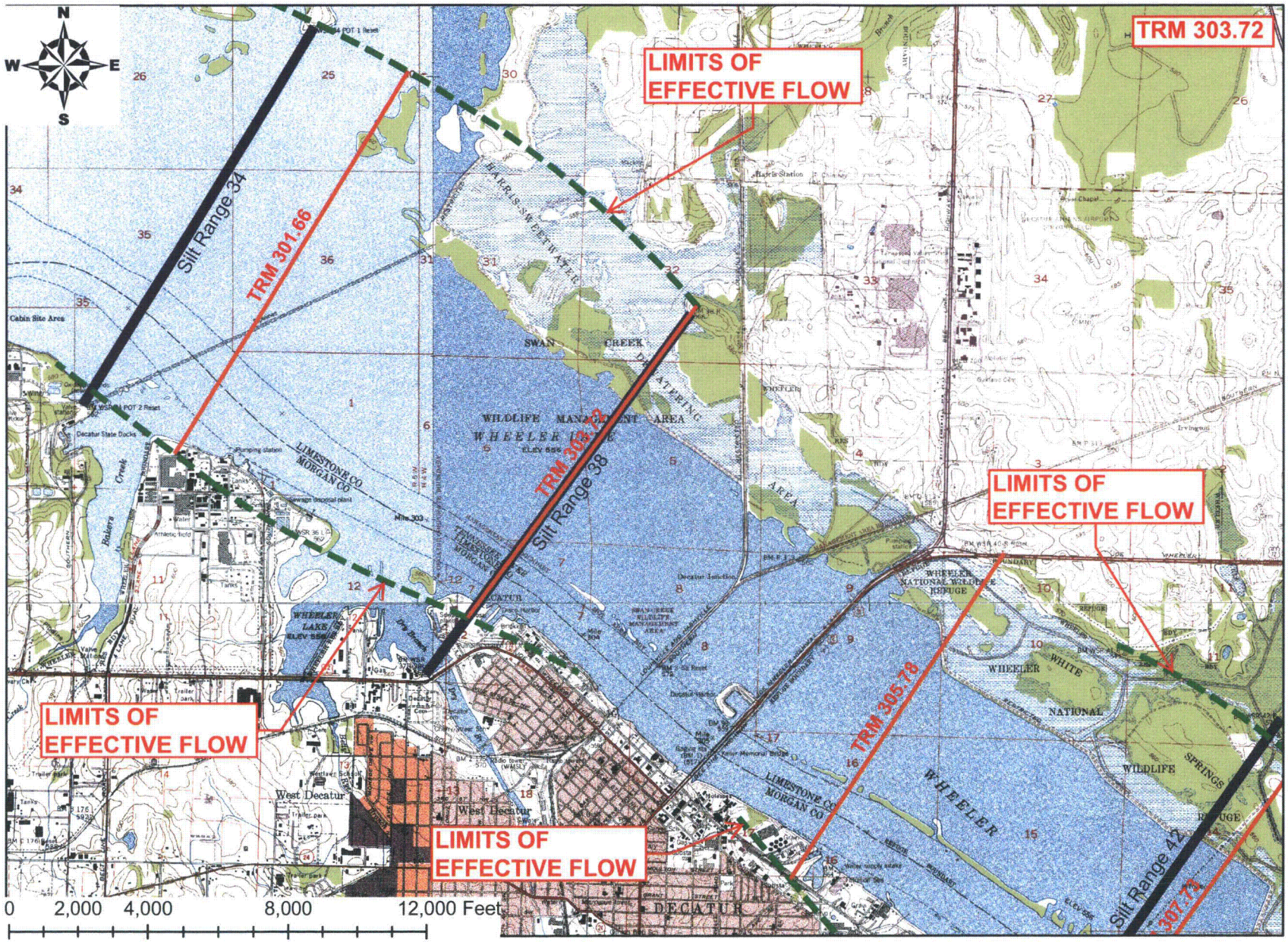

TRM 297.54
INEFFECTIVE FLOW AREA
DLG
ORIGINAL HEC-RAS
ORIGINAL OVERFLOW REMOVED
Conservative channel bottom effective flow adjustment.
Final
HEC-RAS
DLG
Elevation in Feet above MSL (NGVD29)
Station in Feet
640
620
600
580
560
540
520
500
480
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

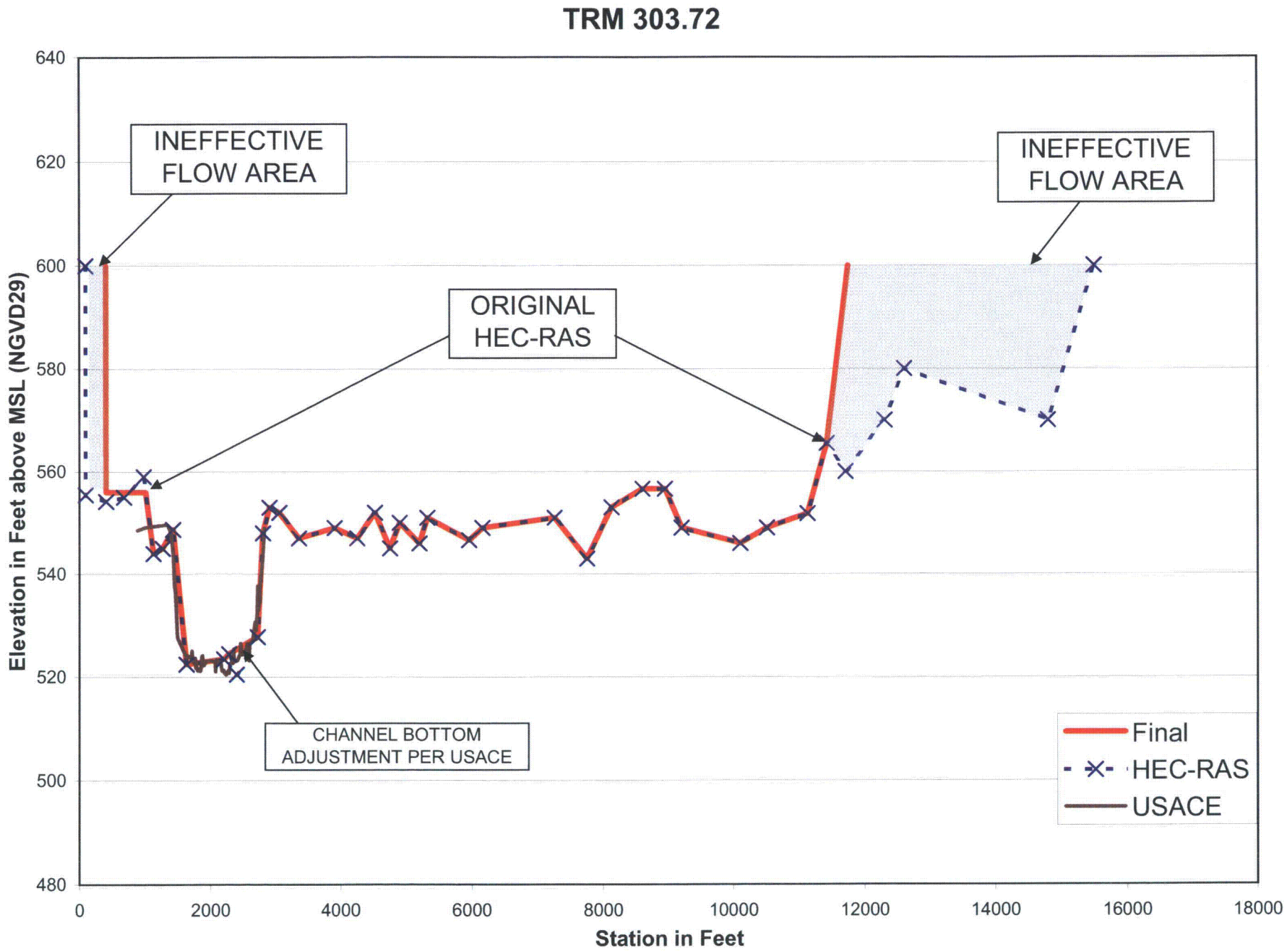

N
S
E
W
TRM 299.60
LIMITS OF EFFECTIVE FLOW
LINE 26 A
TRM 297.54
Silt Range 30
Silt Range 31
Silt Range 32
Silt Range 29
Silt Range 34
TRM 299.60
TRM 301.66
LIMITS OF EFFECTIVE FLOW
LINE 25 A
WHEELER
LAKE
TENNESSEE
RIVER
Finley Island Cabin Site Area
Decatur State Docks
LIMESTONE CO
MORGAN CO
WILDLIFE
0 1,750 3,500 7,000 10,500 Feet

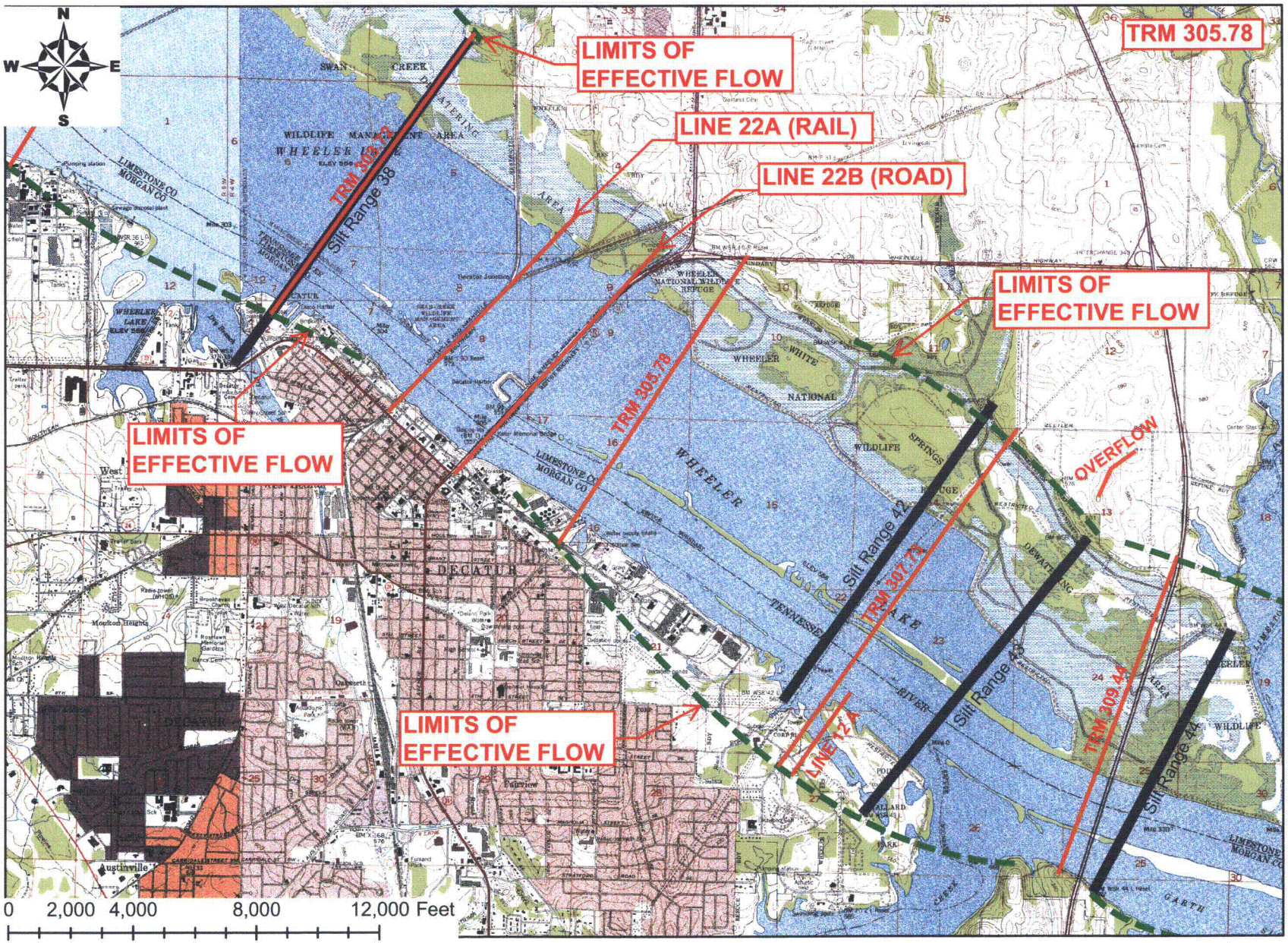

TRM 299.60
INEFFECTIVE FLOW AREA
DEM AT 25A
INEFFECTIVE FLOW AREA
DEM
CHANNEL BOTTOM ADJUSTMENT PER 2006 USACE
ORIGINAL HEC-RAS
Final
HEC-RAS
DEM
USACE
DEM at 25A
Elevation in Feet above MSL (NGVD29)
Station in Feet
640
620
600
580
560
540
520
500
480
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000

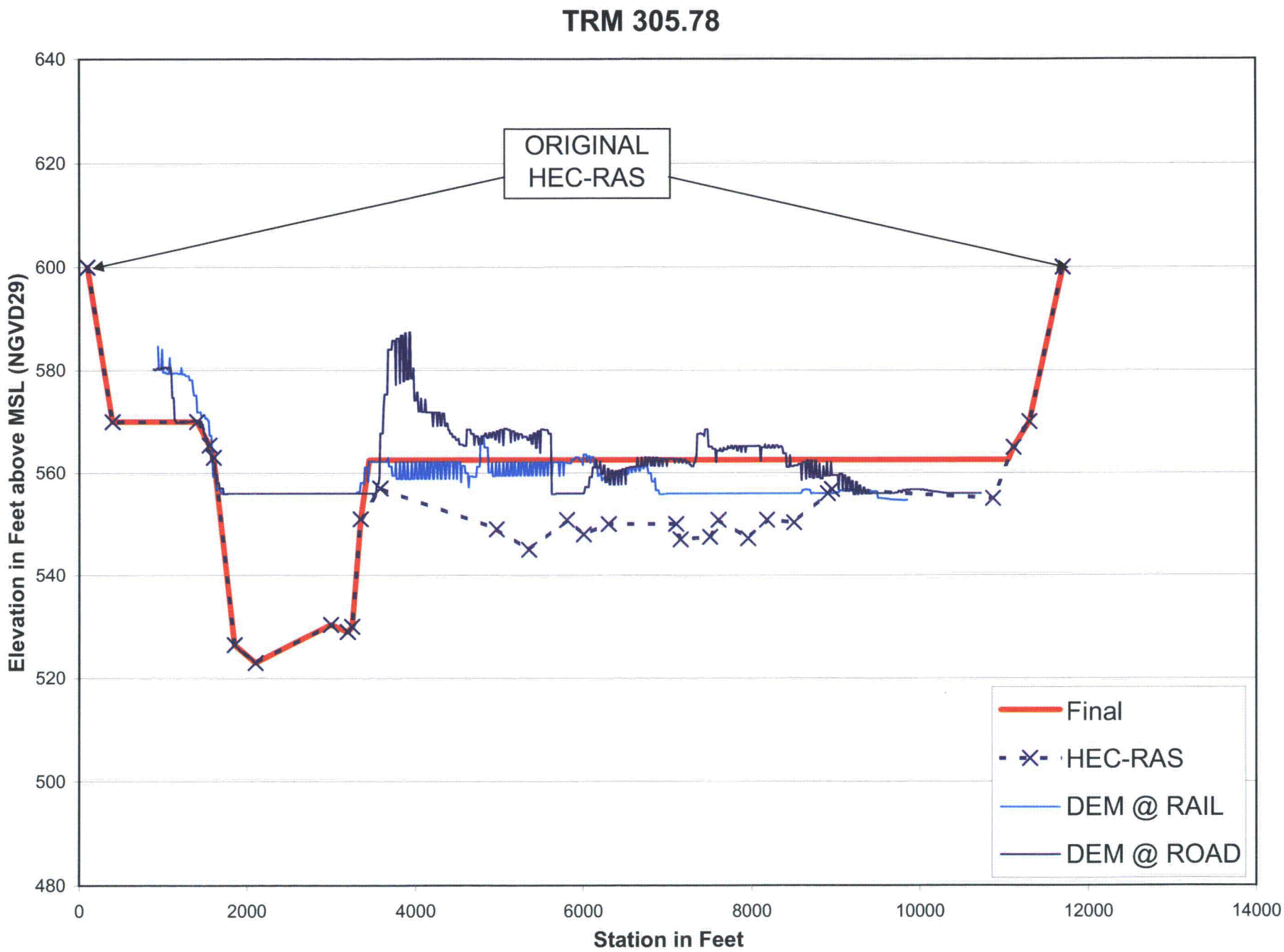

TRM 301.66
LIMITS OF EFFECTIVE FLOW
Silt Range 31
Silt Range 32
Silt Range 34
Silt Range 38
TRM 299.60
TRM 301.66
TRM 303.72
LINE 25 A
LIMITS OF EFFECTIVE FLOW
Finley Island Cabin Site Area
WILDLIFE MANAGEMENT AREA
WHEELER LAKE
SWAN CREEK
LIMESTONE CO
MORGAN CO
0 1,750 3,500 7,000 10,500 Feet

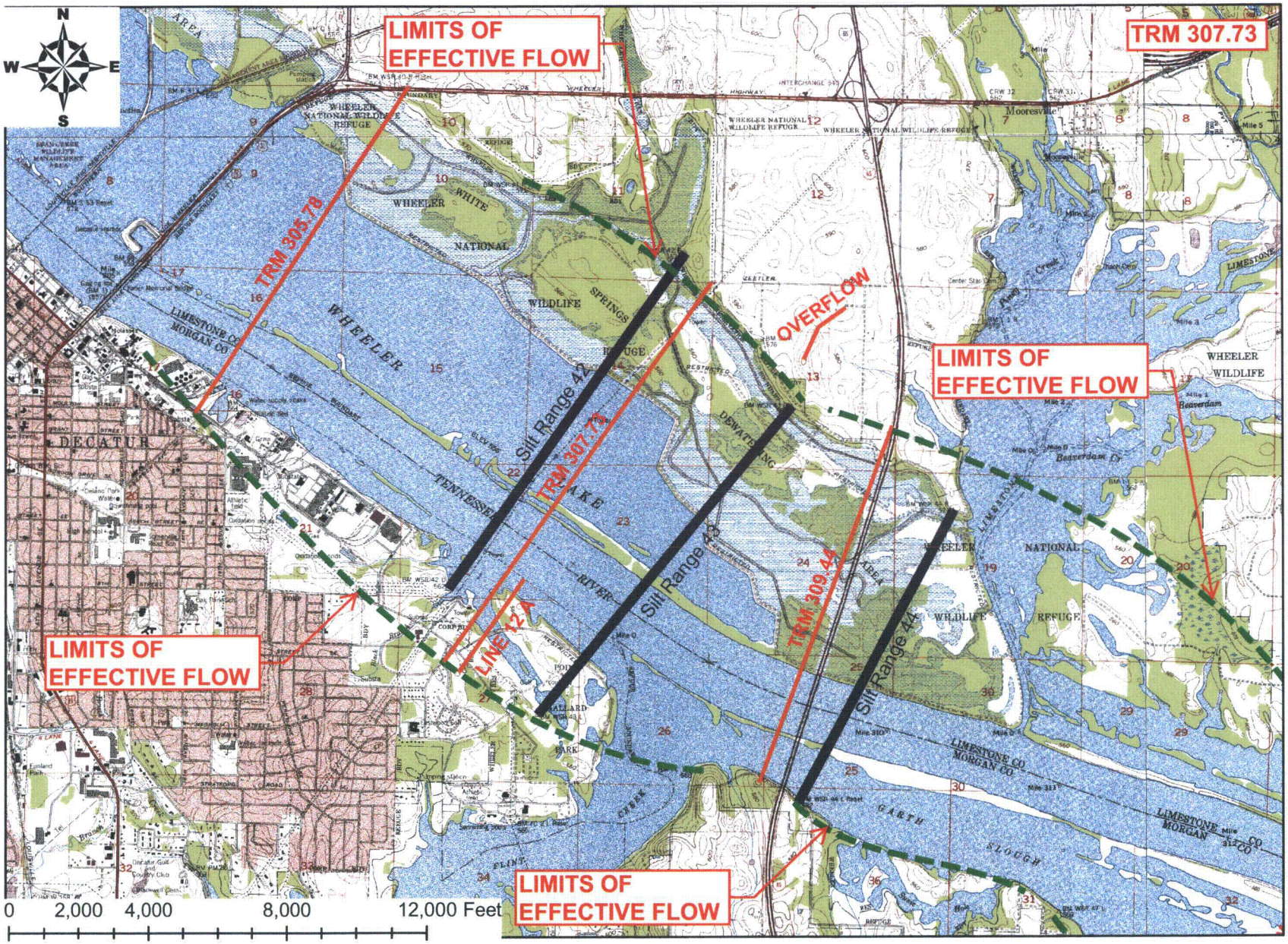

TRM 301.66
INEFFECTIVE FLOW AREA
INEFFECTIVE FLOW AREA
ORIGINAL HEC-RAS
Final
HEC-RAS
Elevation in Feet above MSL (NGVD29)
Station in Feet
640
620
600
580
560
540
520
500
480
0
5000
10000
15000
20000
25000

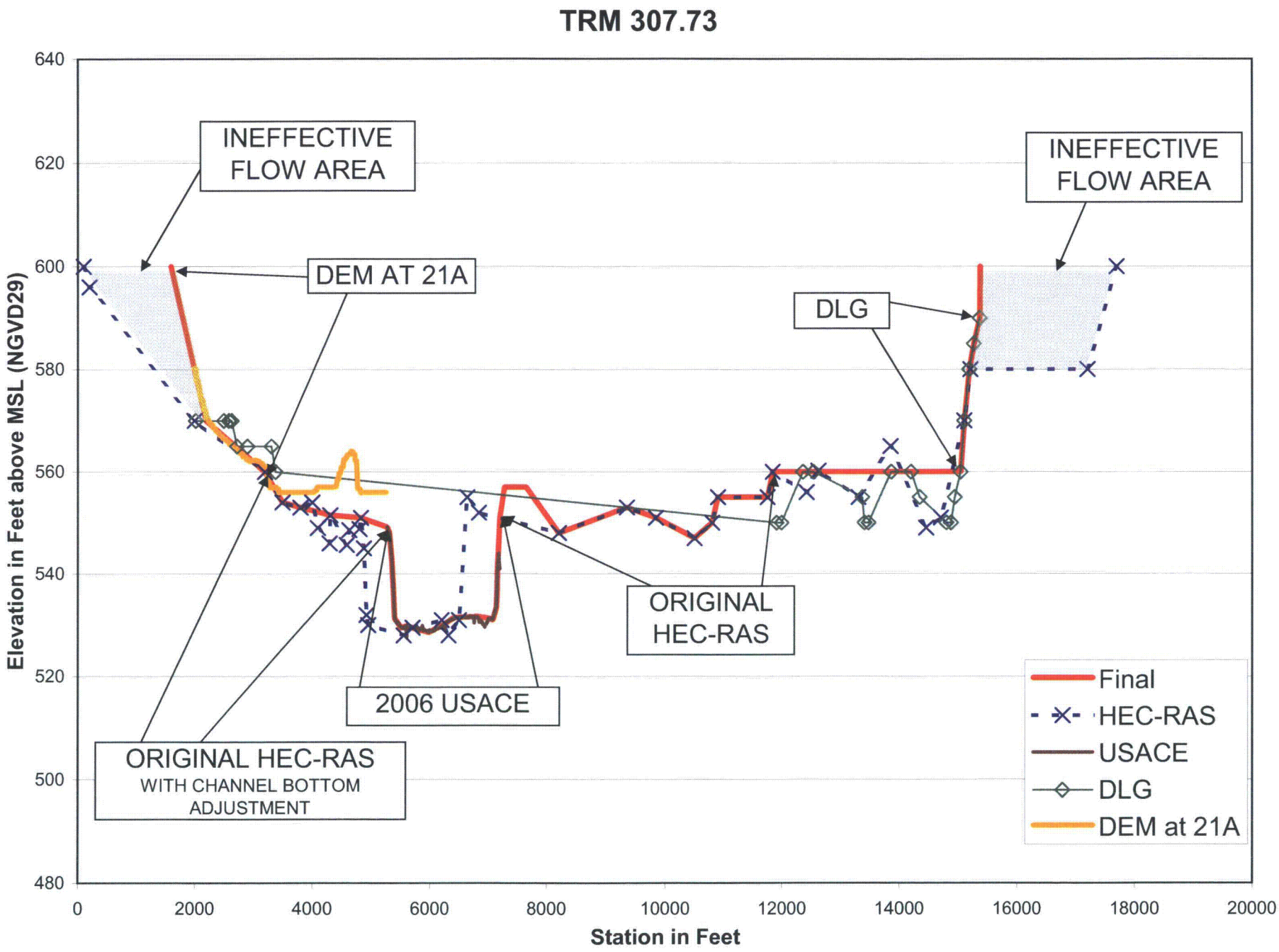

TRM 303.72
LIMITS OF EFFECTIVE FLOW
Silt Range 34
TRM 301.66
TRM 303.72
Silt Range 38
LIMITS OF EFFECTIVE FLOW
LIMITS OF EFFECTIVE FLOW
LIMITS OF EFFECTIVE FLOW
TRM 305.78
Silt Range 42
307.71
N
S
E
W
0
2,000
4,000
8,000
12,000 Feet


TRM 303.72
INEFFECTIVE FLOW AREA
INEFFECTIVE FLOW AREA
ORIGINAL HEC-RAS
CHANNEL BOTTOM ADJUSTMENT PER USACE
Final
HEC-RAS
USACE
Elevation in Feet above MSL (NGVD29)
Station in Feet
640
620
600
580
560
540
520
500
480
0
2000
4000
6000
8000
10000
12000
14000
16000
18000


N
S
E
W
LIMITS OF EFFECTIVE FLOW
LINE 22A (RAIL)
LINE 22B (ROAD)
TRM 305.78
LIMITS OF EFFECTIVE FLOW
LIMITS OF EFFECTIVE FLOW
LIMITS OF EFFECTIVE FLOW
TRM 302.62
Silt Range 38
TRM 305.78
Silt Range 42
TRM 307.73
Silt Range 43
TRM 309.44
Silt Range 44
LINE 12A
OVERFLOW
WHEELER
DECATUR
0 2,000 4,000 8,000 12,000 Feet


TRM 305.78
ORIGINAL
HEC-RAS
Elevation in Feet above MSL (NGVD29)
640
620
600
580
560
540
520
500
480
0
2000
4000
6000
8000
10000
12000
14000
Station in Feet
Final
HEC-RAS
DEM @ RAIL
DEM @ ROAD


N
W
E
S
LIMITS OF EFFECTIVE FLOW
TRM 307.73
TRM 305.78
OVERFLOW
LIMITS OF EFFECTIVE FLOW
Silt Range 42
TRM 307.73
Silt Range 43
LINE 42 A
TRM 309.44
Silt Range 44
LIMITS OF EFFECTIVE FLOW
LIMITS OF EFFECTIVE FLOW
WHEELER NATIONAL WILDLIFE REFUGE
WHEELER WHITE NATIONAL WILDLIFE REFUGE
WHEELER NATIONAL WILDLIFE REFUGE
WHEELER WILDLIFE
WHEELER NATIONAL WILDLIFE REFUGE
DECATUR
Mooresville
LIMESTONE CO
MORGAN CO
TENNESSEE RIVER
GARTH SLOUGH
0 2,000 4,000 8,000 12,000 Feet


TRM 307.73
INEFFECTIVE FLOW AREA
INEFFECTIVE FLOW AREA
DEM AT 21A
DLG
ORIGINAL HEC-RAS
2006 USACE
ORIGINAL HEC-RAS
WITH CHANNEL BOTTOM ADJUSTMENT
Final
HEC-RAS
USACE
DLG
DEM at 21A
Elevation in Feet above MSL (NGVD29)
Station in Feet
640
620
600
580
560
540
520
500
480
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000