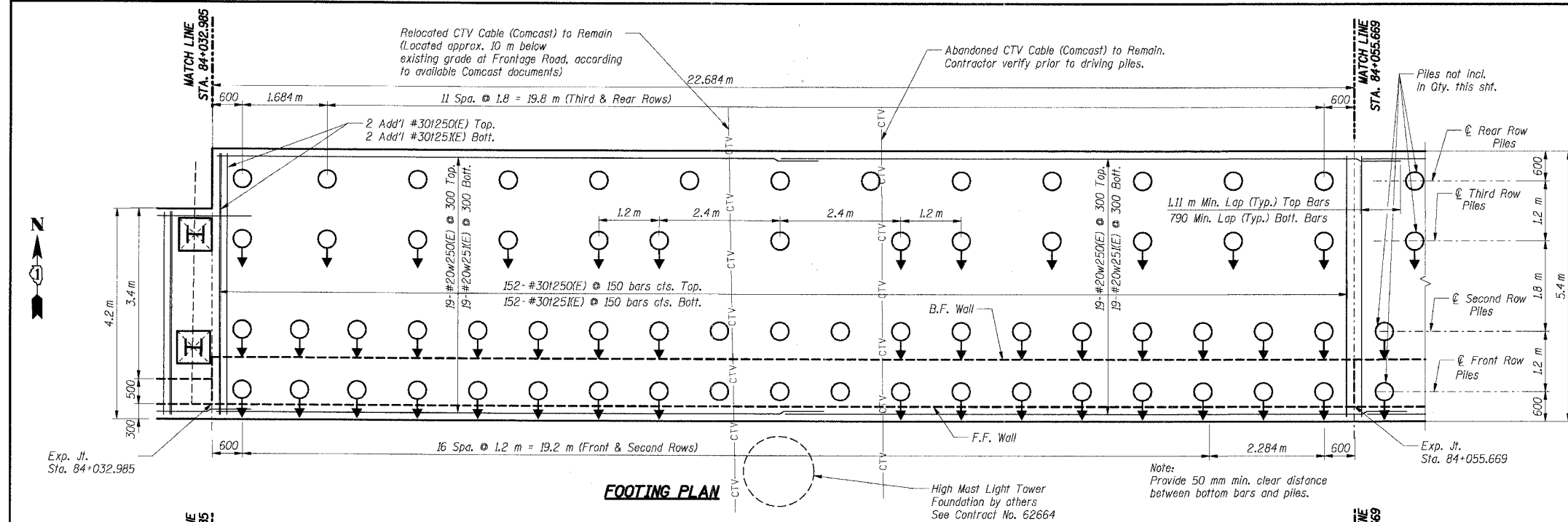


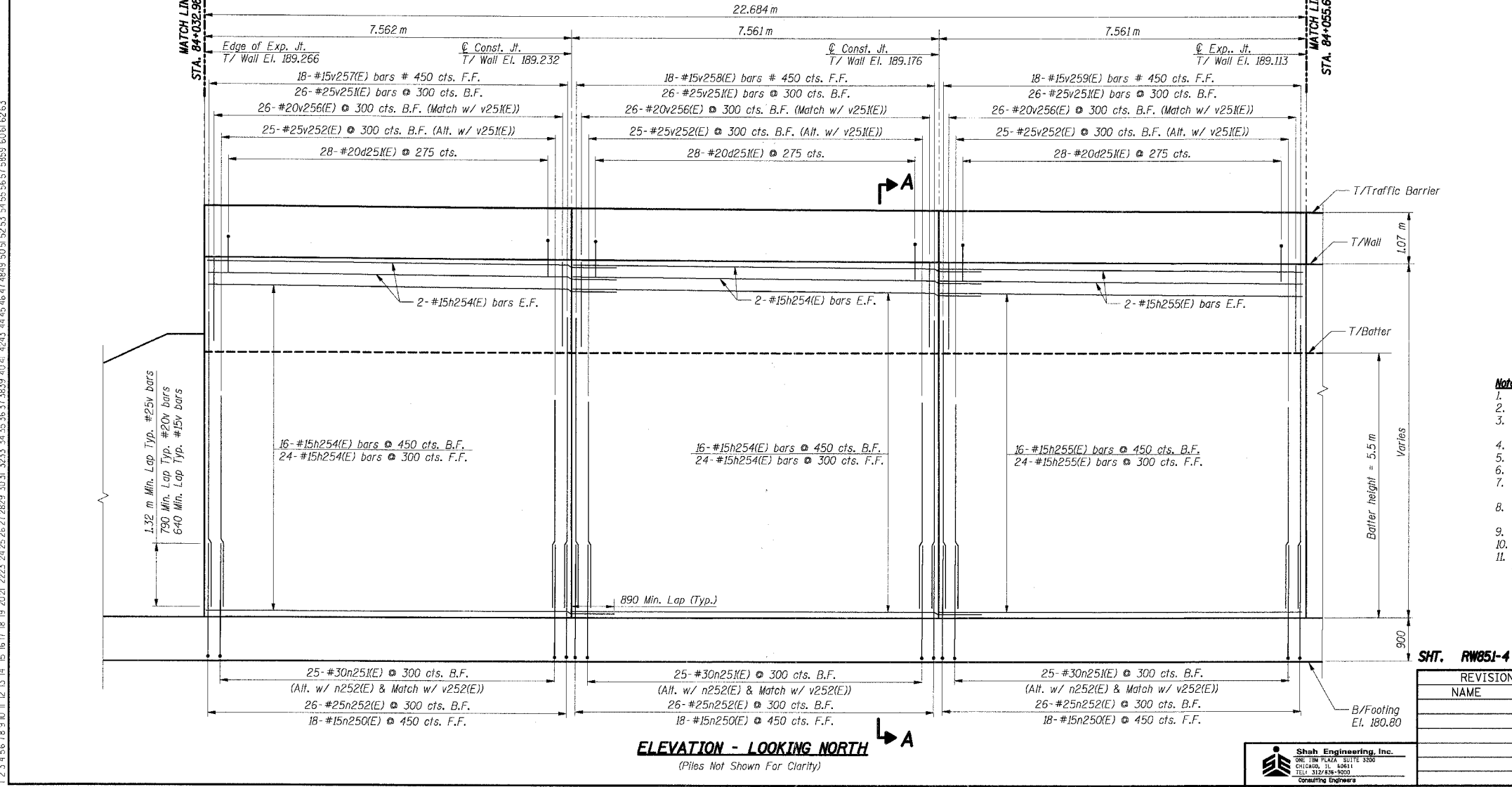
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94		COOK	631	362
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(2425 & 2626) R-2		CONTRACT NO. 62111		



### BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
d25(E)	84	#20	2.59	U
h254(E)	88	#15	8.45	—
h255(E)	44	#15	7.46	—
n250(E)	54	#15	1.73	—
n251(E)	75	#30	2.65	—
n252(E)	78	#25	2.55	—
t250(E)	154	#30	5.80	—
t251(E)	154	#30	5.30	—
v251(E)	78	#25	6.80	—
v252(E)	75	#25	3.79	—
v256(E)	78	#25	2.82	—
v257(E)	18	#15	7.49	—
v258(E)	18	#15	7.45	—
v259(E)	18	#15	7.41	—
w250(E)	38	#20	11.90	—
w251(E)	38	#20	11.66	—
<b>Item</b>		<b>Unit</b>	<b>Total</b>	
Concrete Structures		Cu m	219.5	
Reinforcement Bars, Epoxy Coated		kg	20,410	

\* Cut bars according to cutting diagram, Sheet RW851-7.  
For Bending Diagrams see Sheet RW851-7.



### PILE DATA

Type : 356 mm  $\phi$  Metal Shell Concrete Pile  
 Required Bearing : 500 kN  
 Vertical Piles:  
 Design Capacity : 260 kN  
 Est. Length : 14.5 m  
 No. Required : 20  
 Battered Piles:  
 Design Capacity : 500 kN  
 Est. Length : 15.5 m  
 No. Required : 44

- Notes:**
- All dimensions are in millimeters (mm) except as noted.
  - All dimensions shown are along the front face of the retaining wall.
  - All vertical bars in wall stem and traffic barrier start at 50 mm from construction and expansion joint, U.N.O.
  - Reinforcement bars designated (E) shall be epoxy coated.
  - All edges shall have a 20 mm chamfer unless noted otherwise.
  - For Section A-A, see Sht. RW851-7.
  - E.F. indicates each face, B.F. indicates back face, F.F. indicates front face.
  - See Sht. RW851-6 for Traffic Barrier Reinforcement & Noise Abatement Wall pilaster locations.
  - For Traffic Barrier details see Sht. RW851-10.
  - For Rustication Finish & joint details see Sht. RW851-12.
  - For Concrete Pile details see Sht. RW851-13.
  - $\phi$  Indicates Battered Pile 3 1/2:12.

**SHT. RW851-4 OF 14**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. ROUTE 80/94 (KINGERY EXPRESSWAY)  
 EB & WB INSIDE LANES (MAINLINE) CONSTRUCTION  
 RETAINING WALL - STRUCTURE NO. 016-W851  
 SECTION (2425 & 2626) R-2  
 COOK COUNTY

**FOOTING PLAN & WALL ELEVATION 2**

DATE: 7/18/2005  
 DRAWN BY: CHECKED BY: MJK  
**TENG**  
 TENG & ASSOCIATES, INC.  
 ENGINEERS/ARCHITECTS/PLANNERS  
 CHICAGO, ILLINOIS

WESTRIMADON...NSTRIM2A.DON...NAB99002A.DON  
 7-12-2005, 10:25:11  
 I:\DOCUMENT\937150\STRUCT\1\ODN\YS1722A.DON  
 7/23/05 7:18:19 AM 19 2021 2223 242526272829 30 31 3233 34 35 36 37 3839 40 41 4243 44 45 46 47 4849 50 51 52 53 54 55 56 57 5859 60 61 62 63

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 Consulting Engineers