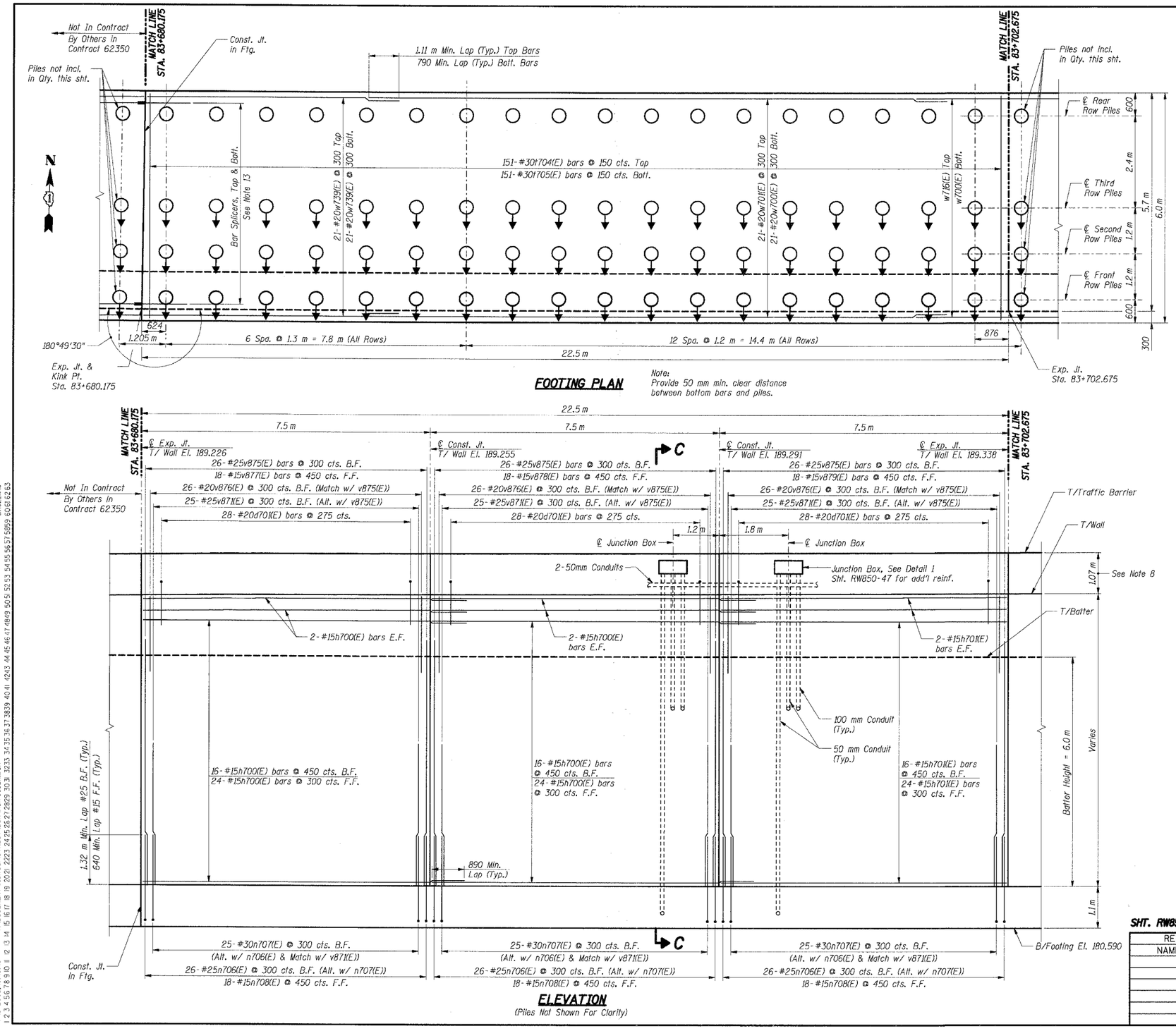
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	*	COOK	631	346
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

* (2425 & 2626) R-2 CONTRACT NO. 62111



FOOTING PLAN

Note:
Provide 50 mm min. clear distance between bottom bars and piles.

ELEVATION
(Piles Not Shown For Clarity)

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
d701(E)	84	#20	2.59	
h700(E)	88	#15	8.39	
h701(E)	44	#15	7.40	
n706(E)	78	#25	2.75	
n707(E)	75	#30	2.85	
n708(E)	54	#15	1.93	
t704(E)	151	#30	6.40	
t705(E)	151	#30	5.90	
v875(E)	78	#25	6.96	
v876(E)	78	#20	2.13	
v871(E)	75	#25	4.79	
v877(E)	18	#15	7.54	
v878(E)	18	#15	7.58	
v879(E)	18	#15	7.60	
w700(E)	21	#20	15.00	
w701(E)	21	#20	15.32	
w739(E)	42	#20	6.62	

Item	Unit	Total
Concrete Structures	Cu m	262.9
Reinforcement Bars, Epoxy Coated	kg	21,300

For Bending Diagrams see Sheets RW850-47 & RW850-48.

PILE DATA

Type : 356 mm ϕ Metal Shell Concrete Pile
Required Bearing : 500 kN
Vertical Piles:
Design Capacity : 260 kN
Est. Length : 13.5 m
No. Required : 18
Battered Piles:
Design Capacity : 500 kN
Est. Length : 14.5 m
No. Required : 54

Notes:
1. All dimensions are in millimeters (mm) except as noted.
2. All dimensions shown are along the front face of the retaining wall.
3. All vertical bars in wall stem and traffic barrier start at 50 mm from construction and expansion joint, U.N.O.
4. Reinforcement bars designated (E) shall be epoxy coated.
5. All edges shall have a 20 mm chamfer unless noted otherwise.
6. For Section C-C, see Sht. RW850-43.
7. E.F. indicates each face, B.F. indicates back face, F.F. indicates front face.
8. See Sht. RW850-41 for Traffic Barrier reinforcement & Noise Abatement Wall pilaster locations.
9. For Traffic Barrier details see Sht. RW850-47.
10. For Rustication Finish & Joint details see Sht. RW850-49.
11. For Concrete Pile details see Sht. RW850-51.
12. ○ Indicates Battered Pile 3 1/2:12.
13. See Bar Splicer detail Sheet RW850-50 for additional information.

*** 2001-167R, (2425 & 2626) R-1 AND (2425 & 2626) R-2

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 80/94 (KINGERY EXPRESSWAY)
EB & WB INSIDE LANES (MAINLINE) CONSTRUCTION
RETAINING WALL - STRUCTURE NO. 016-W850
SECTIONS ***
COOK COUNTY

FOOTING PLAN & WALL ELEVATION 29

SHT. RW850-35 OF 58

REVISIONS	
NAME	DATE

DATE: 7/18/2005
DRAWN BY:
CHECKED BY: MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

-\RS5980I2A.DGN, -\RS5980I2A.DGN, -\RB850I2A.DGN, -\RS5300B2A.DGN
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63