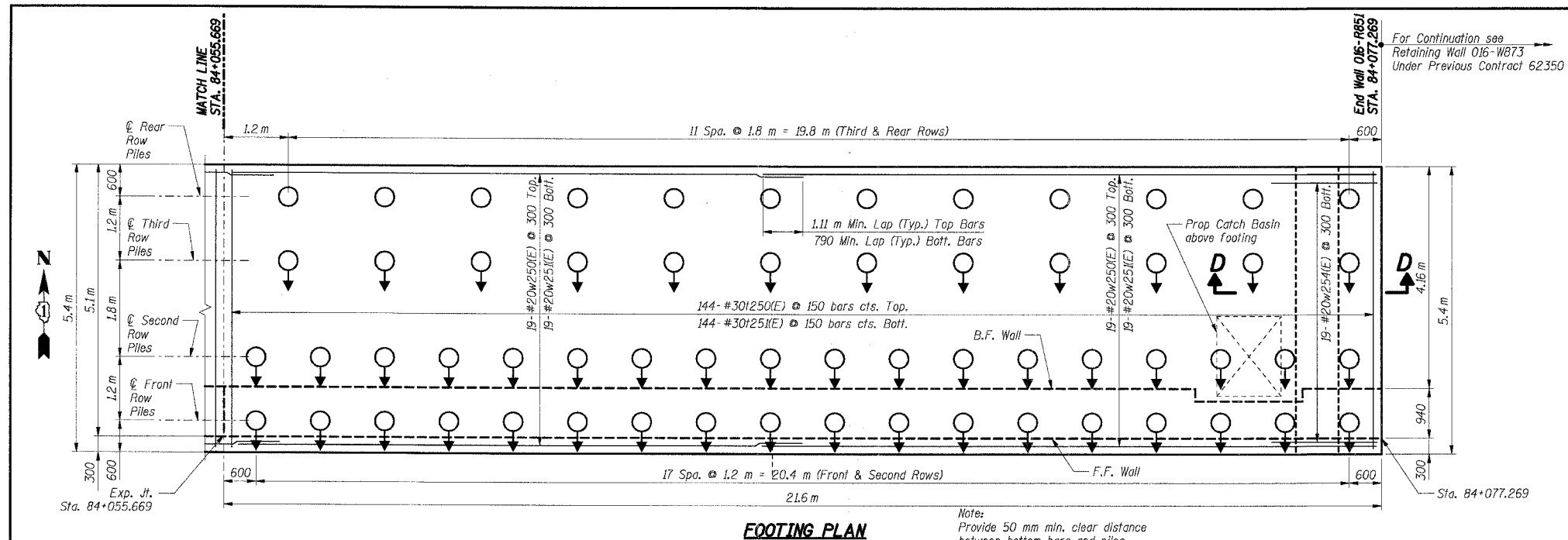


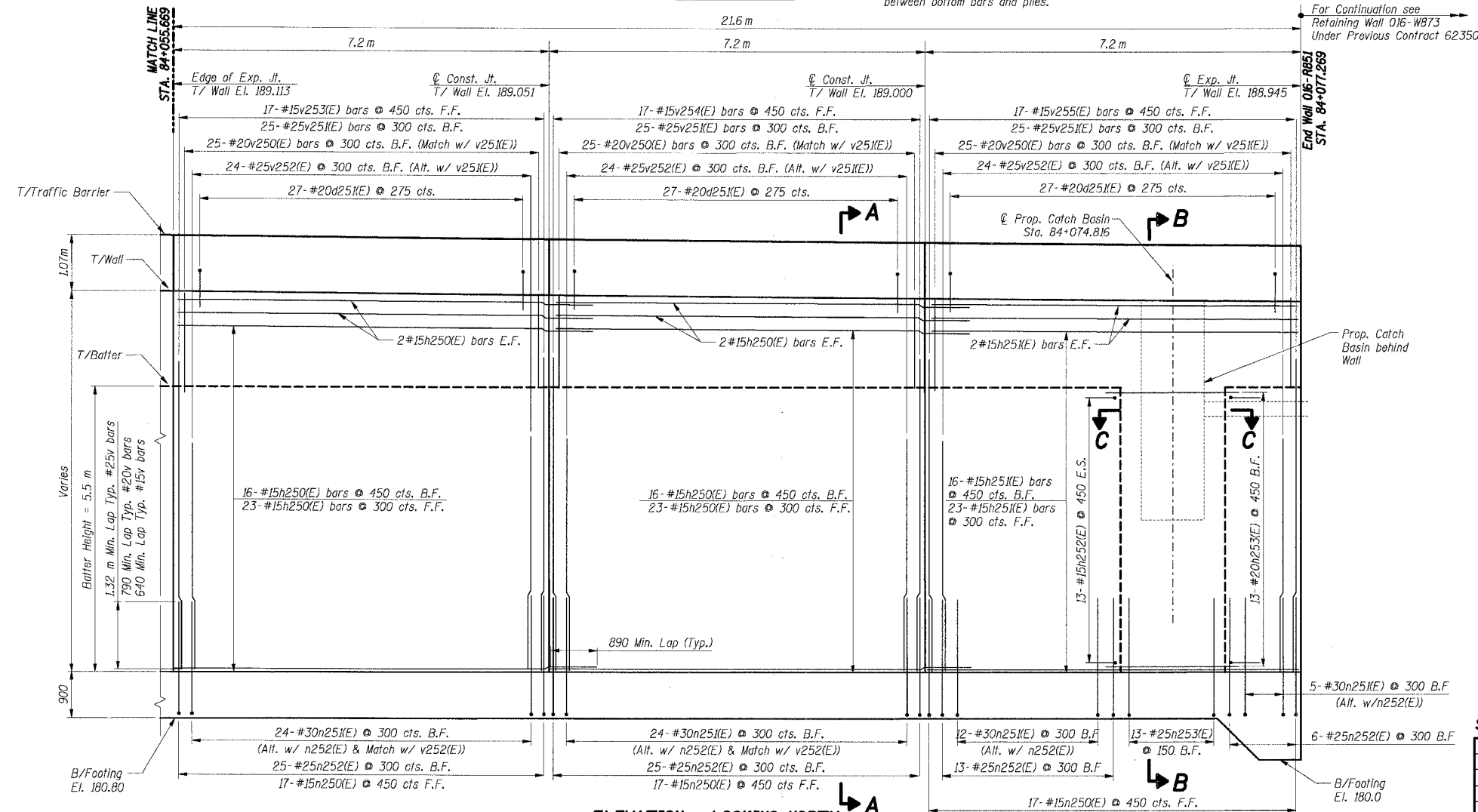
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94		COOK	631	363
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
(2425 & 2626) R-2	CONTRACT NO. 62111			



FOOTING PLAN

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

BAZEEKKJ
 134599002ADJDN...NRSTRIR22AJDN
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 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



ELEVATION - LOOKING NORTH
(Piles Not Shown For Clarity)

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
d25(E)	81	#20	2.59	□
h250(E)	86	#15	8.09	—
h25(E)	43	#15	7.10	—
h252(E)	26	#15	1.29	—
h253(E)	13	#20	3.80	—
n250(E)	51	#15	1.73	—
n25(E)	65	#30	2.65	—
n252(E)	69	#25	2.55	—
n253(E)	13	#25	2.55	—
t250(E)	144	#30	5.80	—
t25(E)	144	#30	5.30	—
v250(E)	75	#20	2.70	—
v25(E)	75	#25	6.80	—
v252(E)	72	#25	3.79	—
v253(E)	17	#15	7.36	—
v254(E)	17	#15	7.29	—
v255(E)	17	#15	7.21	—
w250(E)	38	#20	11.90	—
w25(E)	38	#20	11.66	—
w254(E)	19	#20	3.41	—
Item	Unit	Total		
Concrete Structures	Cu m	210.1		
Reinforcement Bars, Epoxy Coated	kg	19,320		

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

PILE DATA

- Type : 356 mm ϕ Metal Shell Concrete Pile
- Required Bearing : 500 kN
- Vertical Piles:
 - Design Capacity : 260 kN
 - Est. Length : 14.5 m
 - No. Required : 11
- Battered Piles:
 - Design Capacity : 500 kN
 - Est. Length : 15.5 m
 - No. Required : 48
 - Test Pile : 1

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.
- For Sections B-B, C-C & D-D see Sht. RW851-8.
- E.F. indicates each face, B.F. indicates back face, F.F. indicates front face, E.S. indicates Each Side.
- See Sht. RW851-6 for Traffic Barrier reinforcement & Noise Abatement wall plaster 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.
- Indicates Battered Pile 3 1/2:12.

SHT. RW851-5 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 3

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

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

Shah Engineering, Inc.
 ONE TOW PLAZA, SUITE 3000
 CHICAGO, IL 60611
 TEL: 312/836-9900
 Consulting Engineers