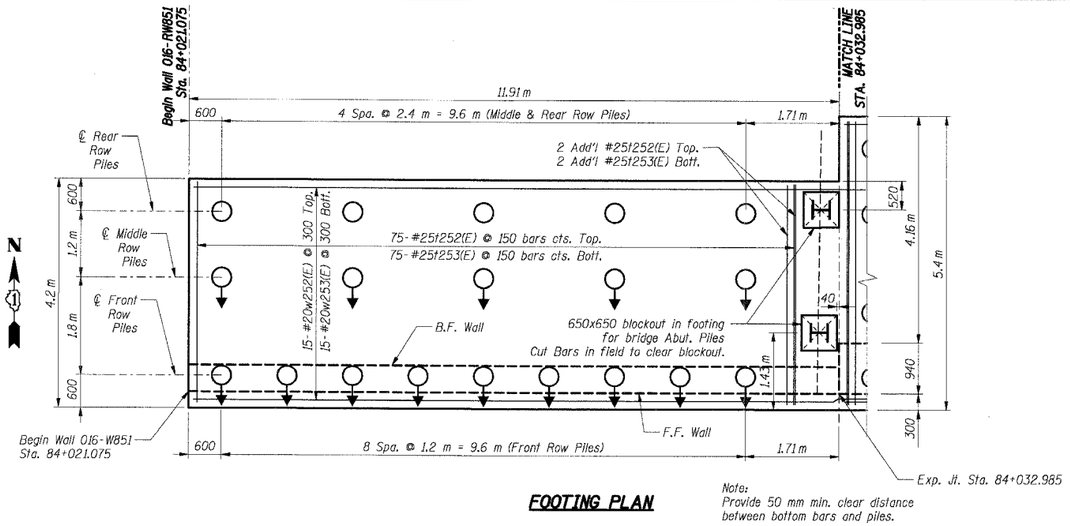
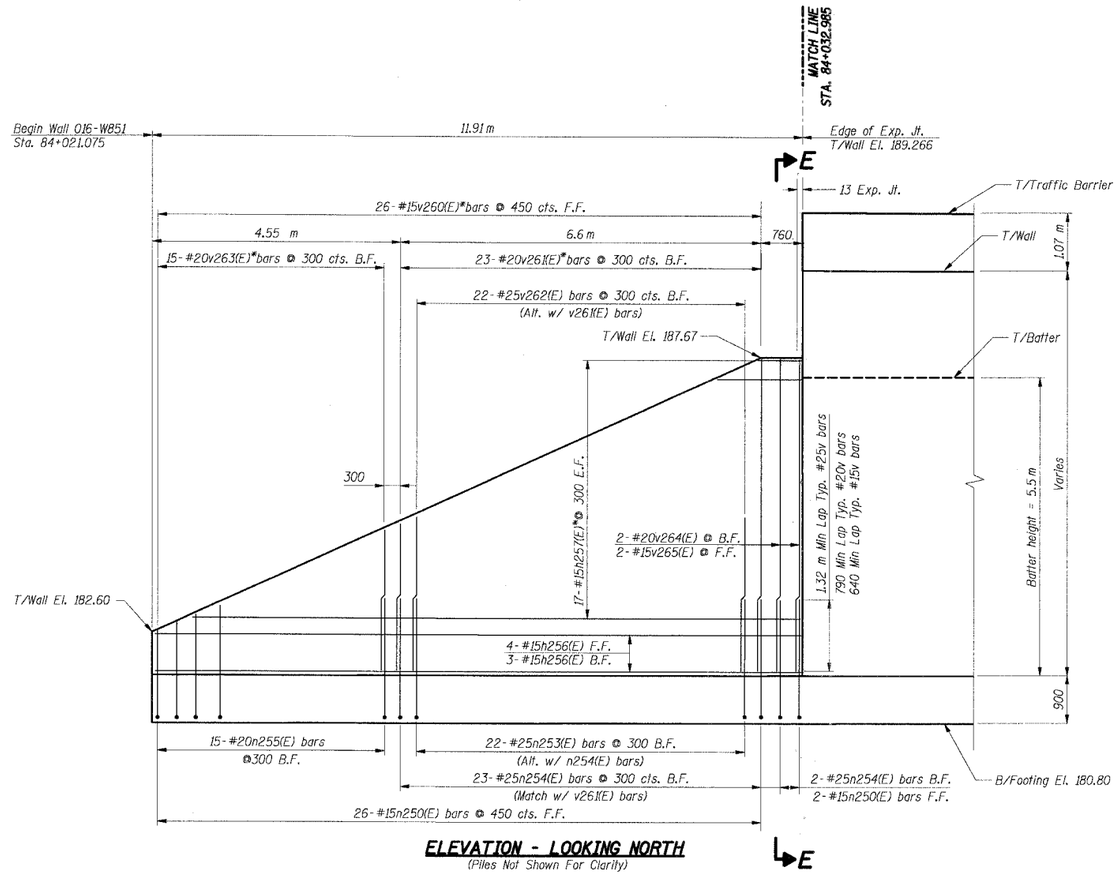


FOOTING PLAN

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



ELEVATION - LOOKING NORTH
(Piles Not Shown For Clarity)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	*	COOK	631	361
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
	h256(E)	7	#15	11.81	——
*	h257(E)	17	#15	11.94	——
	n250(E)	28	#15	1.73	⌐
	n253(E)	22	#25	2.55	⌐
	n254(E)	25	#25	1.92	⌐
	n255(E)	15	#20	1.84	⌐
	t252(E)	77	#25	4.50	⌐
	t253(E)	77	#25	4.10	——
*	v260(E)	13	#15	6.75	——
*	v261(E)	12	#20	8.80	——
	v262(E)	22	#25	3.28	——
*	v263(E)	8	#20	3.65	——
	v264(E)	2	#20	5.93	——
	v265(E)	2	#15	5.93	——
	w252(E)	15	#20	13.02	——
	w253(E)	15	#20	12.70	——

Item	Unit	Total
Concrete Structures	Cu m	65.6
Reinforcement Bars, Epoxy Coated	kg	5,300

* 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 : 5
Battered Piles:
Design Capacity : 500 kN
Est. Length : 15.5 m
No. Required : 14

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 E-E, see Sht. RW851-9.
7. E.F. indicates each face. B.F. indicates back face, F.F. indicates front face.
8. See Sht. RW851-6 for Traffic Barrier reinforcement & Noise Abatement Wall pilaster locations.
9. For Traffic Barrier details see Sht. RW851-10.
10. For Rustication Finish & joint details see Sht. RW851-12.
11. For Concrete Pile details see Sht. RW851-13.

○ Indicates Battered Pile 3 1/2:12.

SHT. RW851-3 OF 14

REVISIONS	
NAME	DATE

Shah Engineering, Inc.
ONE IBM PLAZA SUITE 3300
CHICAGO, IL 60611
TELE 312/836-9000
Consulting Engineers

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

FOOTING PLAN & WALL ELEVATION 1

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

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

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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