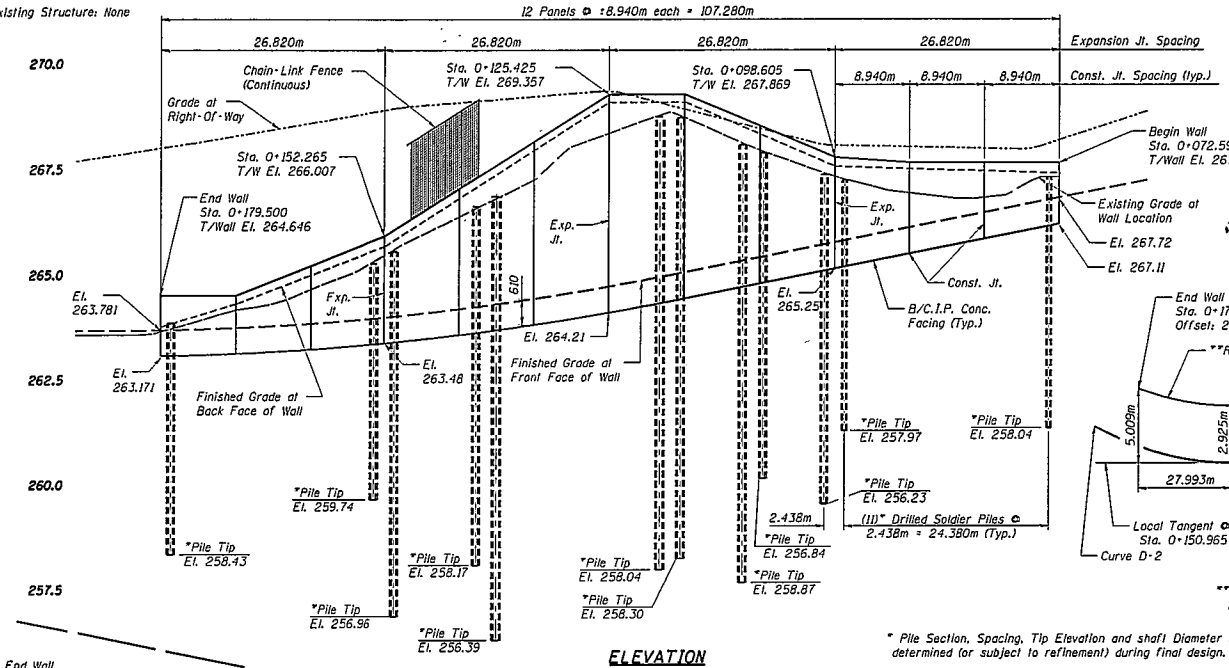
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	2004-1328	COOK		
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BENCHMARK

Chiseled '□' SW side of concrete light pole base, Easterly side of Rte. 14.
Sta. 13+605.9, 17.6m Lt. Elev. 264.205

Existing Structure: None



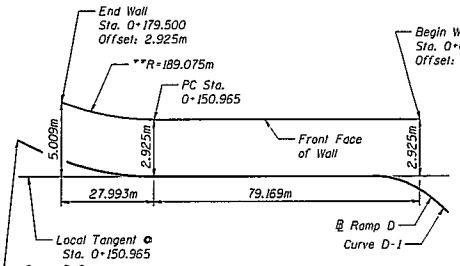
ELEVATION

* Pile Section, Spacing, Tip Elevation and shaft Diameter to be determined (or subject to refinement) during final design.

APPROVED

MAY 03 2006

AS A BASIS FOR PREPARATION OF DETAILED PLAN



OFFSET SKETCH

** Wall to be built along straight chords between construction joints

DESIGN SPECIFICATION

2002 AASHTO Std. Spec, 17th edition

DESIGN STRESSES

NEW CONSTRUCTION

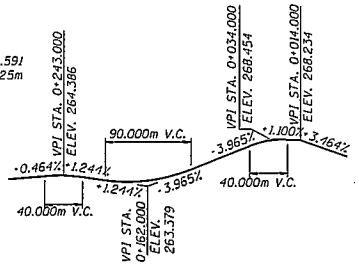
FIELD UNITS

f'c = 24 MPa (concrete)
Fy = 250 MPa (M270M, Gr. 250 Struc. Steel)
fy = 400 MPa (reinforcement)

HIGHWAY CLASSIFICATION

RAMP D

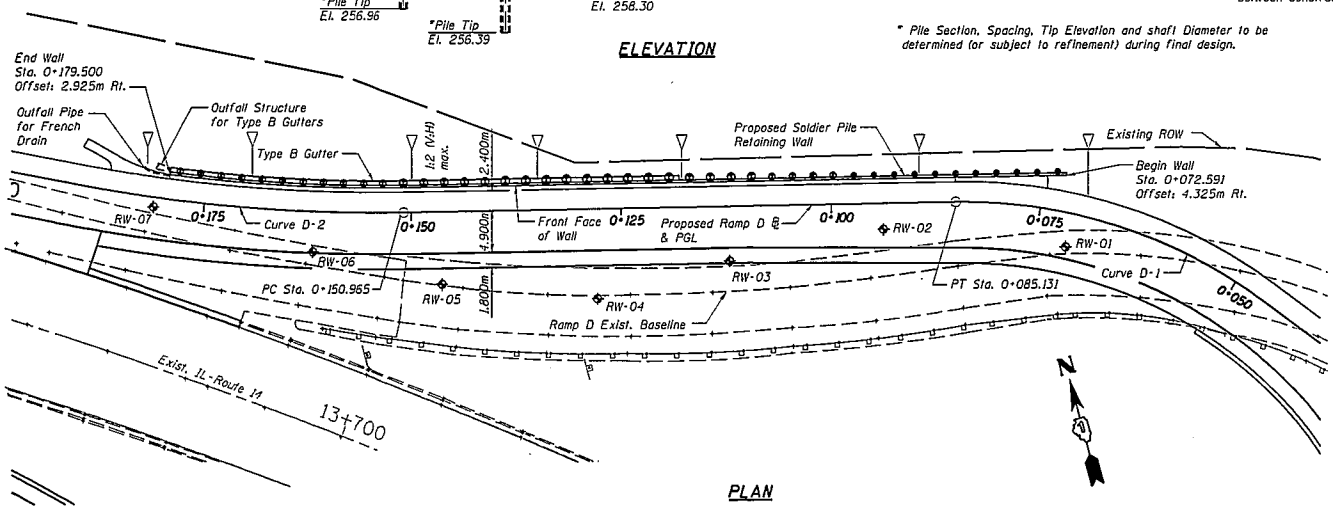
FUNCTIONAL CLASS: Interchange Ramp
ADT: 4,700 (2003)
ADT: 5,000 (2030)
DHV: 830 (2030)
DESIGN SPEED: 60 km/h
POSTED SPEED: 25mph (40km/h)



PROFILE GRADE RAMP D

CURVE DATA

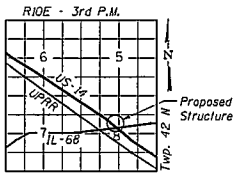
CURVE D-1	CURVE D-2
PI Sta. = 0+066.406	PI Sta. = 0+171.646
Δ = 37°06'58" Lt.	Δ = 12°17'44" Lt.
R = 60.000	R = 192.000
T = 20.143	T = 20.681
L = 38.868	L = 41.203
E = 3.291	E = 1.111
P.C. Sta. = 0+046.263	P.C. Sta. = 0+150.965
P.T. Sta. = 0+085.131	P.T. Sta. = 0+192.168
S.E. = 4.0%	S.E. = 4.0%
Trans. in 0+014 to 0+063	Trans. in 0+140 to 0+157
Trans. out 0+069 to 0+118	Trans. out 0+174 to 0+229



PLAN

NOTES:

1. All dimensions in millimeters (mm) except as noted.
2. Offsets are measured from the ℄ to the front face of wall



LOCATION SKETCH

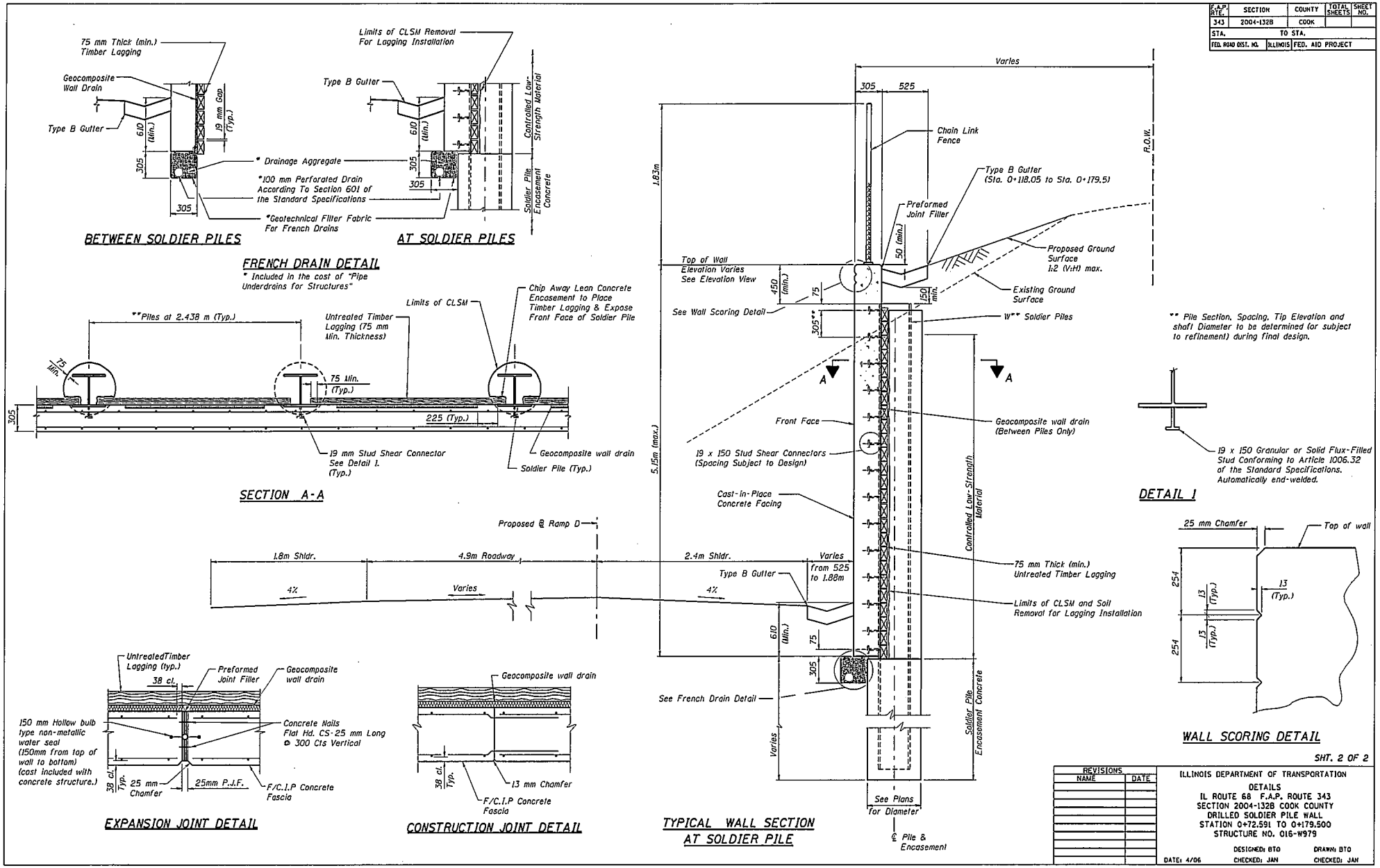
SHT. 1 OF 2

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN
IL ROUTE 68 F.A.P. ROUTE 343
SECTION 2004-1328 COOK COUNTY
DRILLED SOLDIER PILE WALL
STATION 0+72.591 TO 0+179.500
STRUCTURE NO. 016-W979

DATE: 4/06 DESIGNED: BTO CHECKED: JAN DRAWN: BTO CHECKED: JAN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	2004-132B	COOK		
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SHT. 2 OF 2

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS
IL ROUTE 68 F.A.P. ROUTE 343
SECTION 2004-132B COOK COUNTY
DRILLED SOLDIER PILE WALL
STATION 0+72.591 TO 0+179.500
STRUCTURE NO. 016-W979

DATE: 4/06 DESIGNED: BTO CHECKED: JAN DRAWN: BTO CHECKED: JAN

...\016-W979 TS&L SHT 2.dgn 4/27/2006 11:41:01 AM