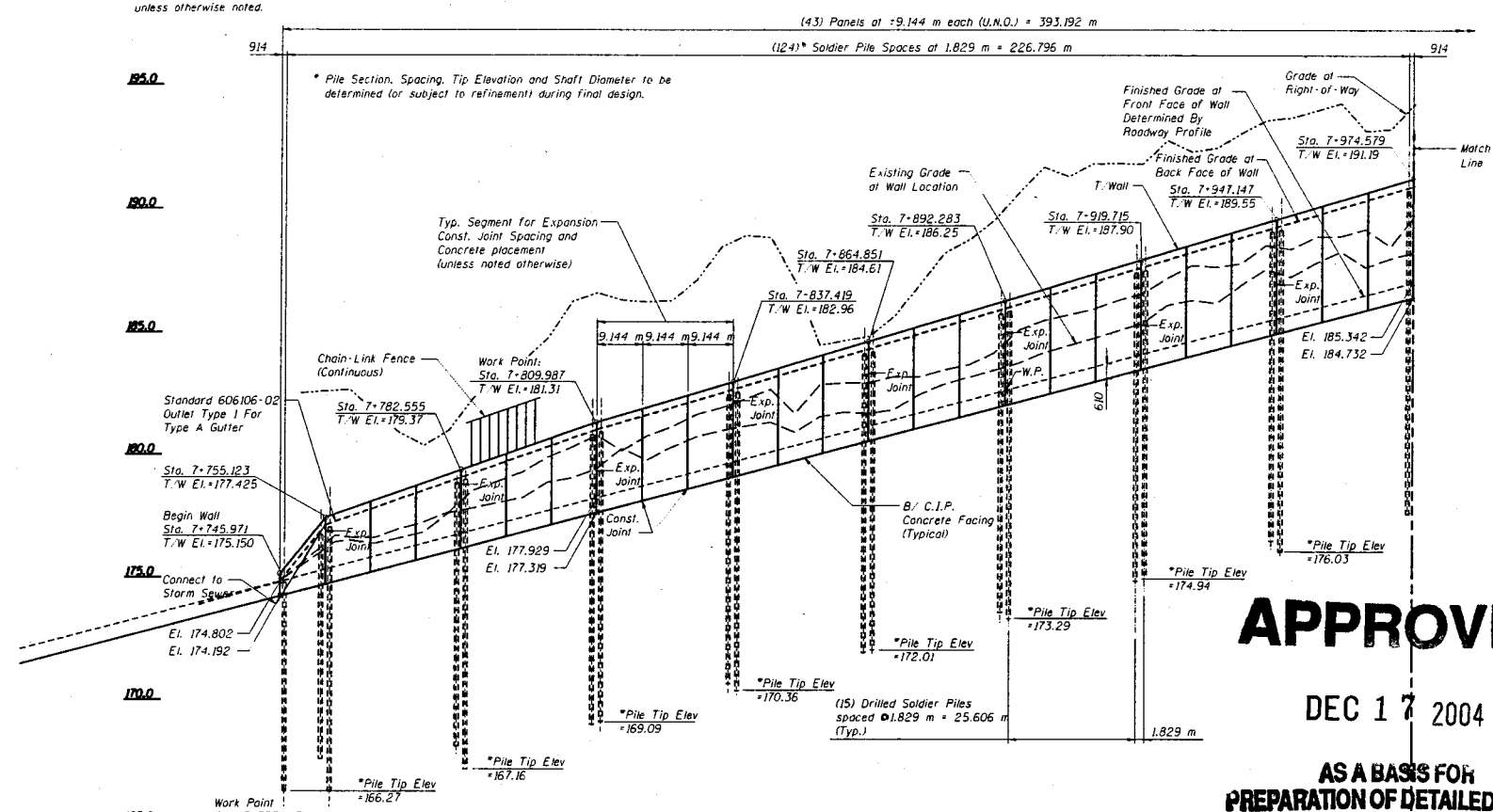
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
399		TAZEWELL	4	1
STA 7+663.000		TO STA 10+011.000		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

Bench Mark: BM #108: Sta. 8+056.715, 13.327 m RT RRS in power pole 100± E of easterly intersection of Donald Ct. & Washington. Elevation = 191.037

Note: All dimensions are in millimeters unless otherwise noted.



ELEVATION

PLAN

DESIGN SPECIFICATIONS

2003 AASHTO Specifications

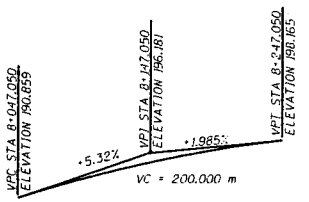
DESIGN STRESSES

Field Units

f'c=24 MPa

fy=400 MPa (Reinf.)

fy=250 MPa (M-270M Grade 250) (Soldier Piles)



PROFILE GRADE

HIGHWAY CLASSIFICATION

FAP 399 (IL Route 8)

Class: (Other Principal Arterial)

ADT: 15,300 (1997) 24,505 (2010)

DHV: 1991

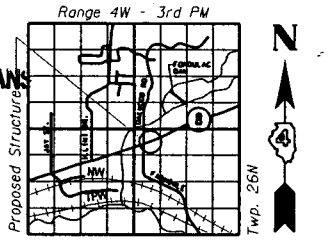
Design Speed: 110 km/h

Posted Speed: 65 mph

APPROVED

DEC 17 2004

AS A BASIS FOR PREPARATION OF DETAILED PLANS



LOCATION SKETCH

LEGEND

Soil Boring
Sanitary Sewer
Gas Line
Telephone
Water Line

HORIZONTAL CURVE DATA

Prop. Curve CURVE_4

PI Sta. = 7+692.397 L = 535.962m

Δ = 8° 20' 40" (LT) E = 9.797m

T = 268.957m PC Sta. 7+423.441

R = 3,687.000m PT Sta. 7+960.403

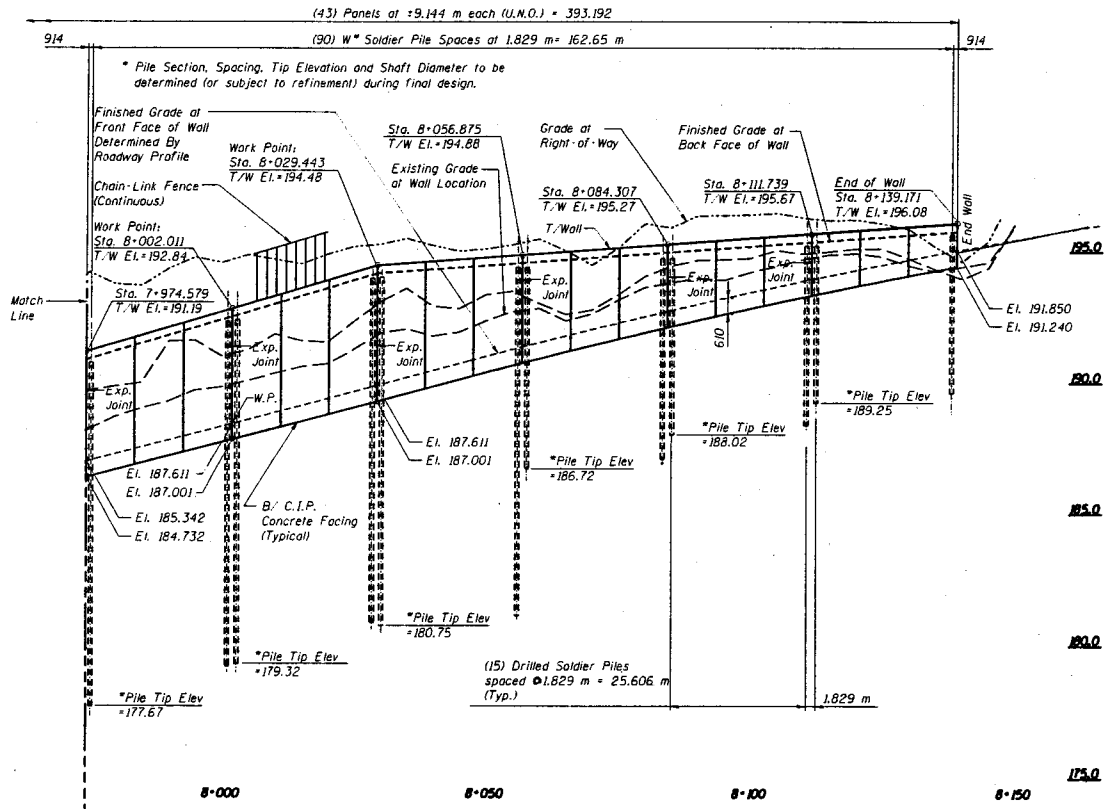
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL. RT. 8 - SEC. 2 FAP 399
SECTION 36R-1, 37R-2 TAZEWELL COUNTY
DRILLED SOLDIER PILE WALL
STA 7+750 TO STA 8+150
S.N. 090-8516
GENERAL PLAN

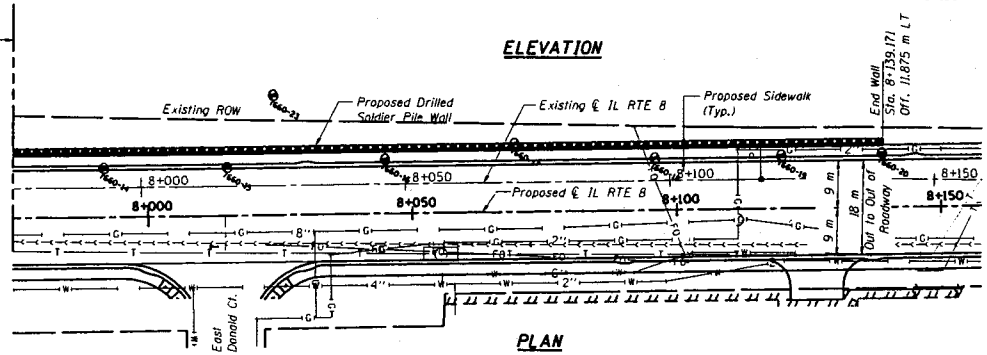
DATE: DEC. 2004 DRAWN BY: A.Hengels CHECKED BY: J.Neu

...\Final TS&L\TSL1Final.dgn 12/10/2004 09:38:56 AM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
399		TAZEWELL	4	2
STA 7+663.000		TO STA 10+011.000		
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	



ELEVATION



PLAN

LEGEND

- Soil Boring
- Sanitary Sewer
- Gas Line
- Telephone
- Water Line

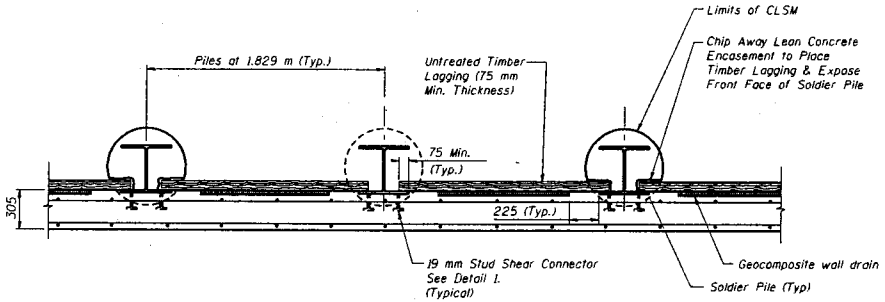
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL. RT. 8 - SEG. 2 FAP 399
SECTION 36R-1, 37R-2 TAZEWELL COUNTY
DRILLED SOLDIER PILE WALL
STA 7+750 TO STA 8+150
S.N. 090-8516
GENERAL PLAN

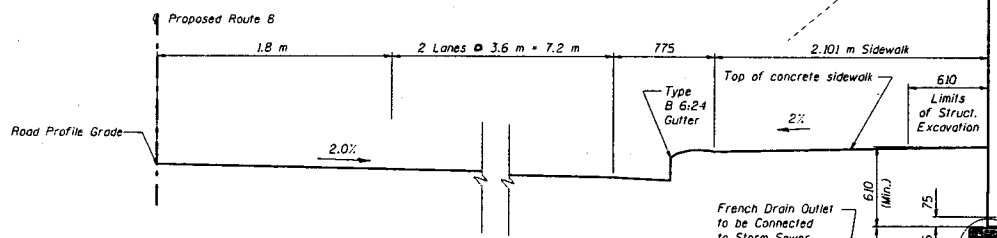
DATE: DEC. 2004

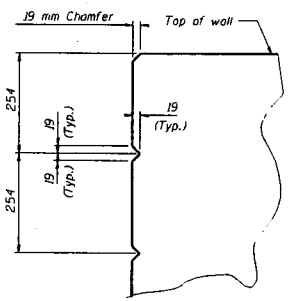
DRAWN BY: A.Hengels
CHECKED BY: J.Neu

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
399		TAZEWELL	4	3
STA 7+663.000		TO STA 10+011.000		
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	

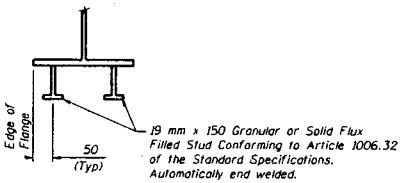


SECTION C-C

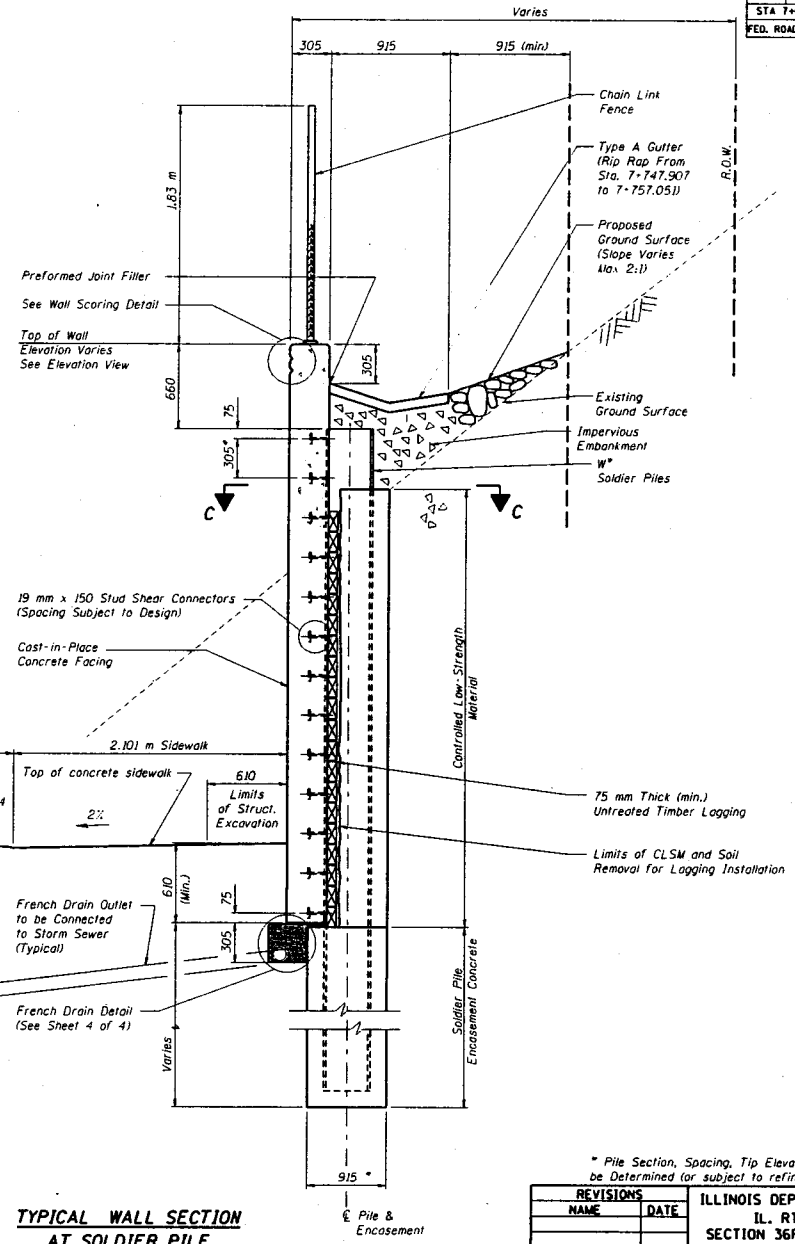




WALL SCORING DETAIL



DETAIL 1



TYPICAL WALL SECTION AT SOLDIER PILE

* Pile Section, Spacing, Tip Elevation, and Shaft Diameter to be Determined (or subject to refinement) During Final Design.

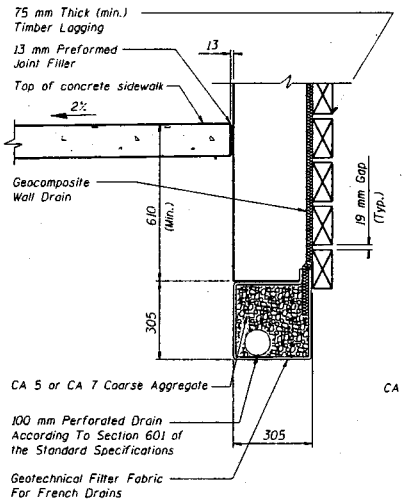
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL. RT. 8 - SEG. 2 FAP 399
SECTION 36R-1, 37R-2 TAZEWELL COUNTY
DRILLED SOLDIER PILE WALL
STA 7+750 TO STA 8+150
S.N. 090-8516
DETAILS

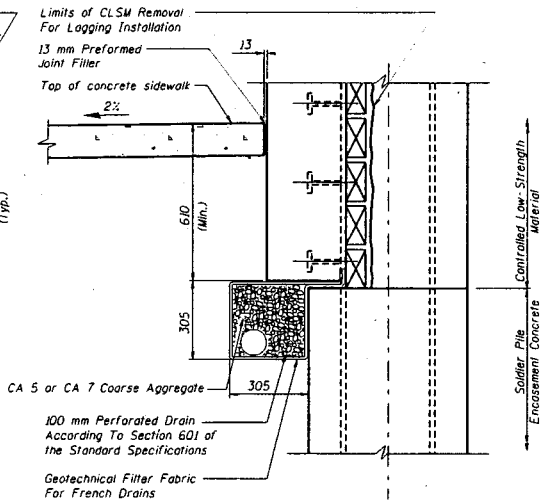
DATE: DEC. 2004

DRAWN BY: A.Hengels
CHECKED BY: J.Neu

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
399		TAZEWELL	4	4
STA 7+663.000		TO STA 10+011.000		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

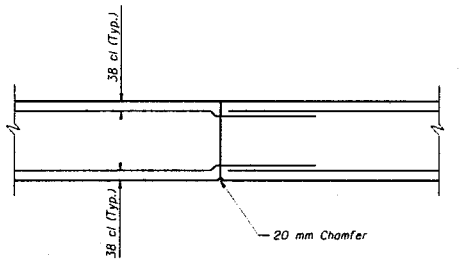


BETWEEN SOLDIER PILES

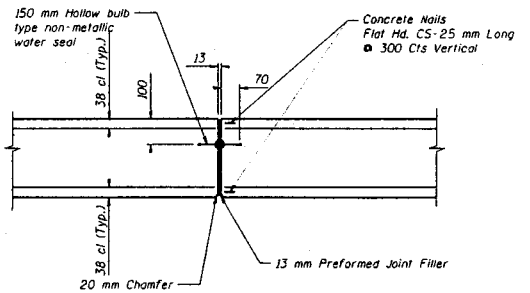


AT SOLDIER PILES

FRENCH DRAIN DETAIL



SECTION A-A
CONSTRUCTION JOINT DETAIL



SECTION B-B
EXPANSION JOINT DETAIL

* Pile Section, Spacing, Tip Eevation, and Shaft Diameter to be Determined (or subject to refinement) During Final Design.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL. RT. 8 - SEG. 2 FAP 399
SECTION 36R-1, 37R-2 TAZEWELL COUNTY
DRILLED SOLDIER PILE WALL
STA 7+750 TO STA 8+150
S.N. 090-8516
DETAILS

DATE: DEC. 2004
DRAWN BY: A.Hengels
CHECKED BY: J.Neu