Bench Mark

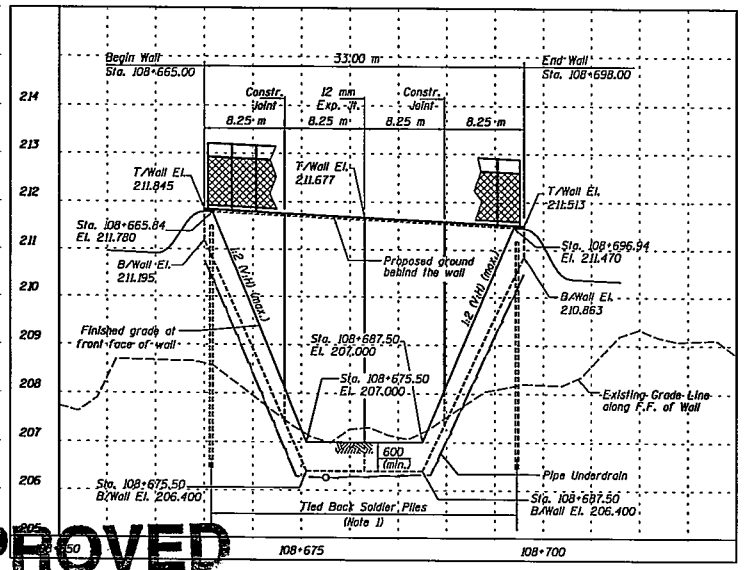
Rebar with Cap, Station 108+778.115, Offset 19.684 m RT, Elevation = 210.456 m.

Existing Structure

None

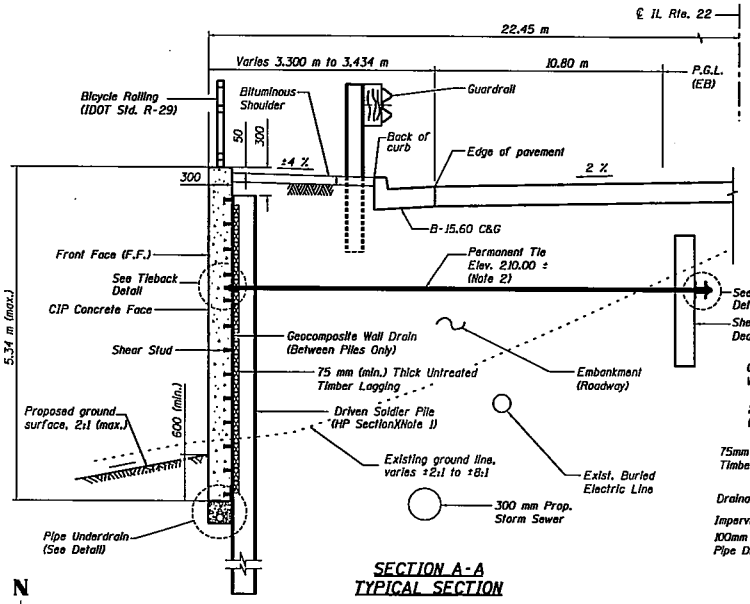
SHEET 1 OF 1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	TI-122-3R-FR-11	LAKE	306	
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

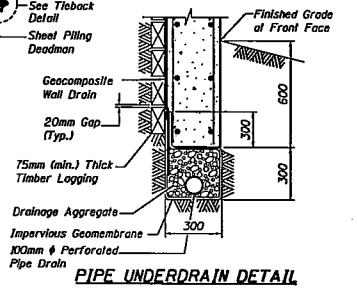


ELEVATION - WALL D

(Looking at Back Face of Wall)



SECTION A-A
TYPICAL SECTION



PIPE UNDERDRAIN DETAIL

HIGHWAY CLASSIFICATION

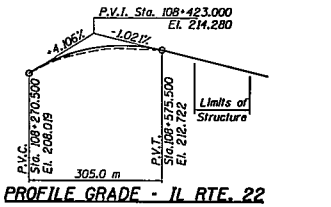
F.A.P. Route 337 - Illinois Route 22
ADT: 34,000 (2000); 48,000 (2020)
DHV: 2,000 (2020)
Func. Class: Sub. Strategic Regional Arterial
Design Speed: 70 km/h (45 mph)

DESIGN SPECIFICATIONS

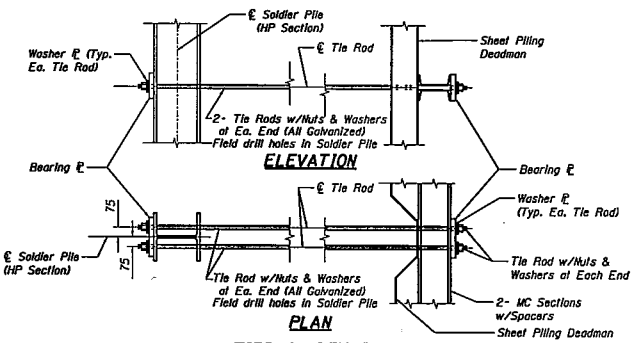
2002 AASHTO Standard Specifications for Highway Bridges

DESIGN STRESSES

f'c = 24 MPa (3,500 psi)
fy = 400 MPa (60,000 psi) (Reinforcement)
fy = 250 MPa (M270M Gr. 250) (Soldier Pile)
fy = 250 MPa (M270M Gr. 250) (Struct. Steel)
fy = 520 MPa (M31M Gr. 520) (Tie Rod)



PROFILE GRADE - IL RTE. 22



TIEBACK DETAILS

NOTES:

1. The number, size, spacing, and tip elevation of Soldier Piles are to be determined in design phase.
2. Location and number of tie-rods to be refined in design phase.
3. All station and offsets are given at the front face of the concrete facing.
4. All dimensions are in millimeters (mm) except as noted.

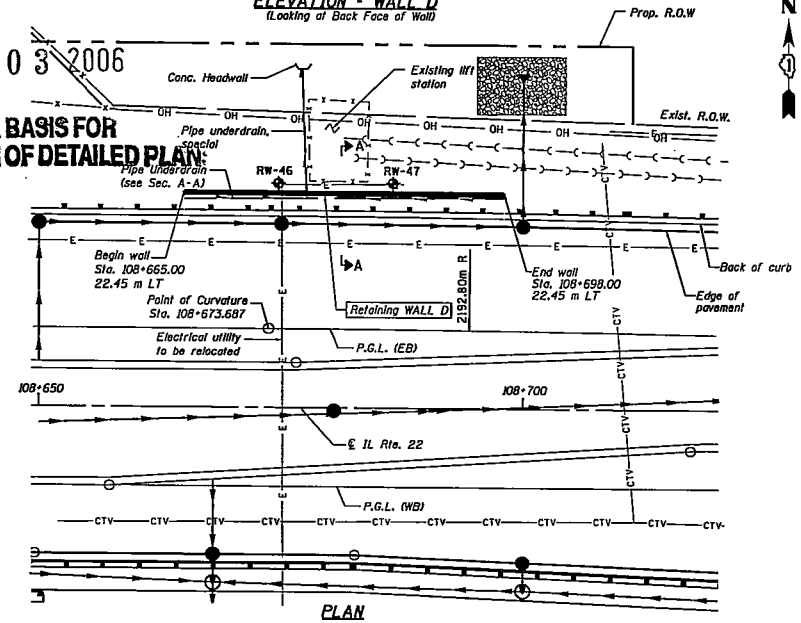
CONSTRUCTION SEQUENCE

1. Drive the soldier piles and the sheet piling.
2. Install the timber lagging and backfill behind the wall uniformly up to the tie rod elevation.
3. Install the tie rods.
4. Continue to install timber lagging and construct proposed embankment in front of and behind wall to finished grade.
5. Install pipe underdrain and shear studs and construct C.I.P. concrete face.

APPROVED

MAY 03 2006

AS A BASIS FOR PREPARATION OF DETAILED PLAN

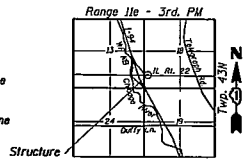


PLAN

N

LEGEND

- Soil Boring
- OH — Overhead Utility Line
- CTV — Buried Cable Line
- E — Buried Electric Line
- Storm Sewer
- Pipe Underdrain



LOCATION SKETCH

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAP ROUTE 337 (IL ROUTE 22)
GENERAL PLAN
RETAINING WALL D
STA. 108+665 TO STA. 108+698
STRUCTURE NUMBER 049-W039
LAKE COUNTY — SECTION T-12-3-R-1
SCALE: N.T.S. — DRAWN BY: A. Yorgicoglu
DATE: APRIL 11, 2006 — CHECKED BY: G. Hallestad