

Bench Mark: BM #213 - Set railroad spike in south side of power pole with light at northeast corner of Route 22 and Hampton Road. Station: 100+752.20 10.56m LT. El. 213.760m
 Existing Structure: None

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL NOTES:

1. Reinforcement bars shall conform to the requirements of AASHTO M31M, or M322M Grade 420.
2. Exposed edges shall be beveled 19mm.
3. All construction joints shall be bonded.
4. All dimensions are in millimeters (mm) except as noted.
5. Design Fill Height = 0.600m
6. Precast culvert alternate is not allowed.

FAP	SECTION	COUNTY	SHEETS	SHEET NO. 1
337	20R-5	LAKE	562	414
D-91-552-99 Contract No. 60881				
13 SHEETS				

TOTAL BILL OF MATERIAL

Item	Unit	TOTAL
Parous Granular Embankment	CU M	639
Structure Excavation	CU M	790
Concrete Structures	CU M	100
Protective Coat	SQ M	123
Reinforcement Bars	KG	12,250
Reinforcement Bars, Epoxy Coated	KG	6,200
Aluminum Railing, Type L	METER	32
Temporary Sheet Piling	SQ M	96
Concrete Box Culverts	CU M	117
Geocomposite Wall Drain	SQ M	423
Pipe Underdrains 250 mm (Special)	METER	14
Pipe Underdrains For Structures, 150 mm	METER	118
Pipe Underdrains For Structures, 200 mm	METER	12
Steel Plate Beam Guard Rail, Attached to Structures	METER	3.5
Bar Splicers	EACH	64

INDEX OF SHEETS

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2. STAGE CONSTRUCTION
3. PIPE UNDERDRAIN SYSTEM
4. TUNNEL PLAN AND ELEVATION
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7. RETAINING WALL PLAN AND ELEVATION
8. RETAINING WALL SECTIONS
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10. TYPE L ALUMINUM RAILING
11. BAR SPLICER (COUPLER) DETAILS
12. BORING LOGS
13. BORING LOGS

DESIGN SPECIFICATION

AASHTO 2002 Standard Specifications for Highway Bridges.

LOADING MS18

Allow 2.4 KN/m² for future wearing surface.

DESIGN STRESSES

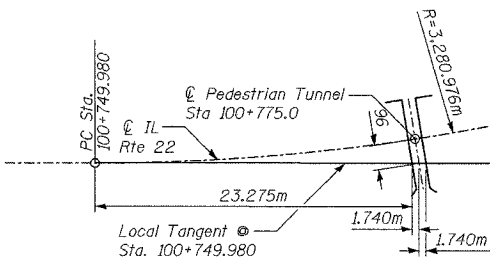
FIELD UNITS

f'c = 24 MPa
 fy = 420 MPa (Reinforcement)

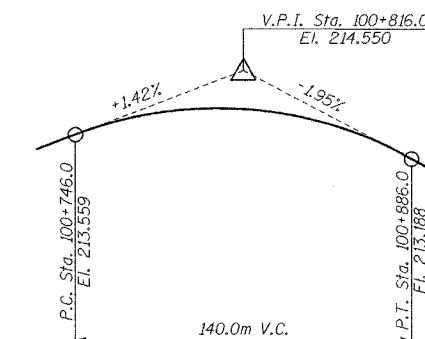
Max. soil pressure under footing = 135 kPa

CURVE DATA

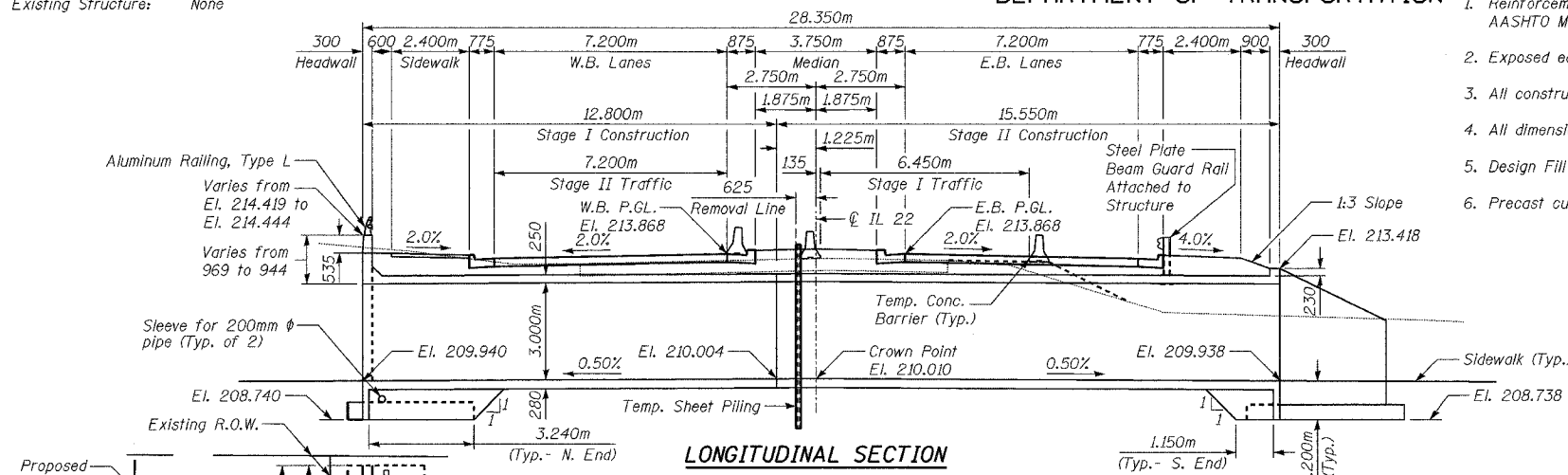
Prop. Curve IL-22-3
 PI Sta. 100+800.006
 $\Delta = 1^\circ 44' 49''$ (LT)
 T = 50.026 m
 R = 3,280.976 m
 L = 100.044 m
 E = 0.381 m
 PC Sta. 100+749.980
 PT Sta. 100+850.024



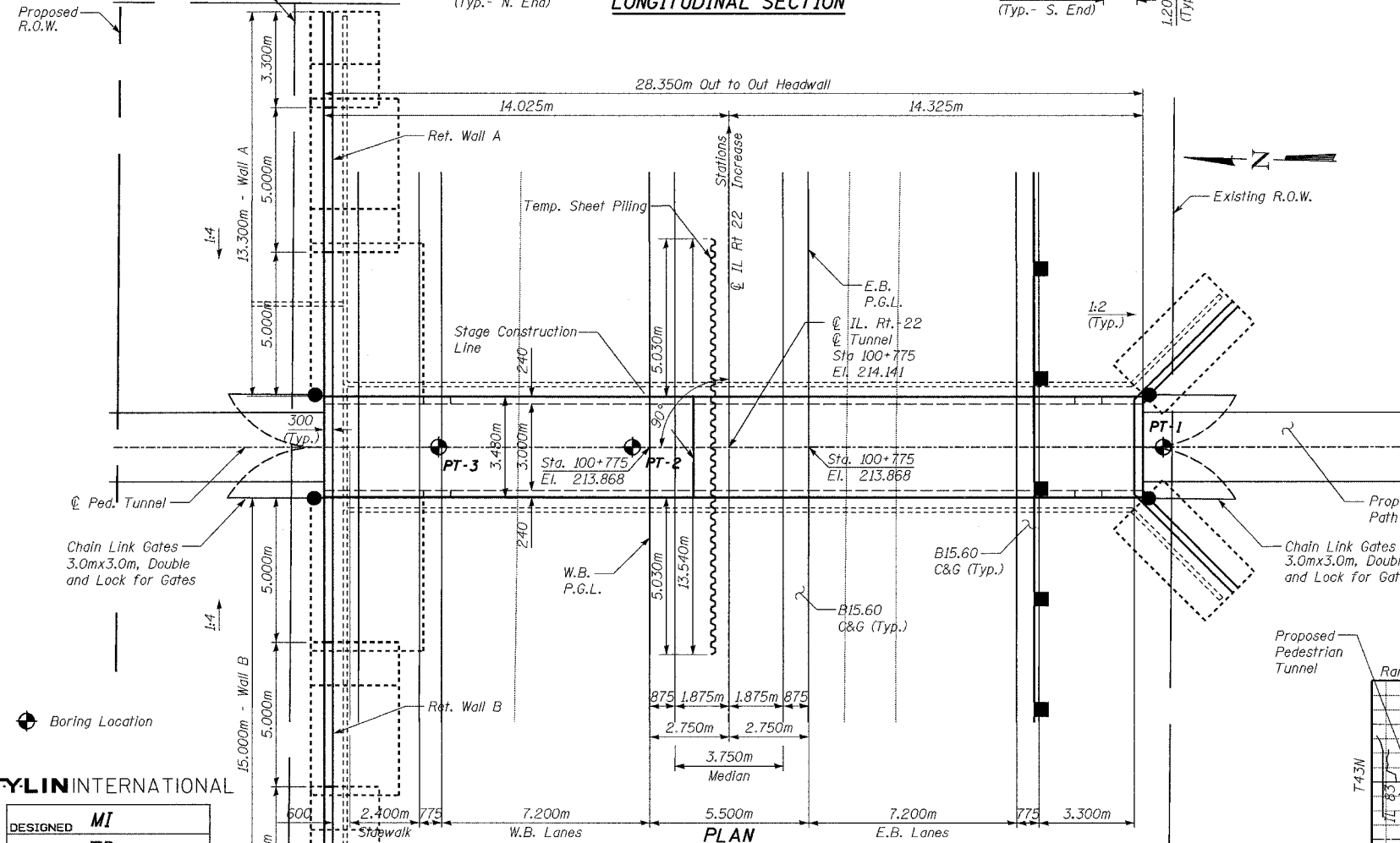
OFFSET SKETCH



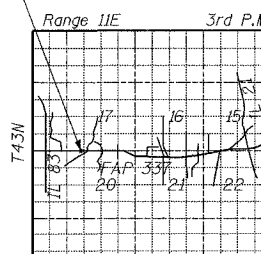
PROFILE GRADE IL RTE 22



LONGITUDINAL SECTION



PLAN



LOCATION SKETCH

Boring Location

TYLIN INTERNATIONAL

DESIGNED	MI
CHECKED	TD
DRAWN	DJR
CHECKED	TD, MI
DATE	03-22-2004



Signed Heather J. Gaffney, S.E., IL Lic. No. 081-004961 For drawings 1 thru 13 of 13.
 Expires 11-30-2004.
 Date

GENERAL PLAN

IL ROUTE 22 OVER
 PEDESTRIAN TUNNEL
 FAP 337 SECTION 20R-5
 LAKE COUNTY
 STA. 100+775.000
 S.N. 049-T016