

Benchmark: BM #6 - Square cut in base of L.P. at N.E. corner of IL Route 132 and Magnolia (Speedway) 45.14' LT, Sta. 32+13.24 (IL 132 E.B. @), Elev. 696.47.

Existing Structure: None.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

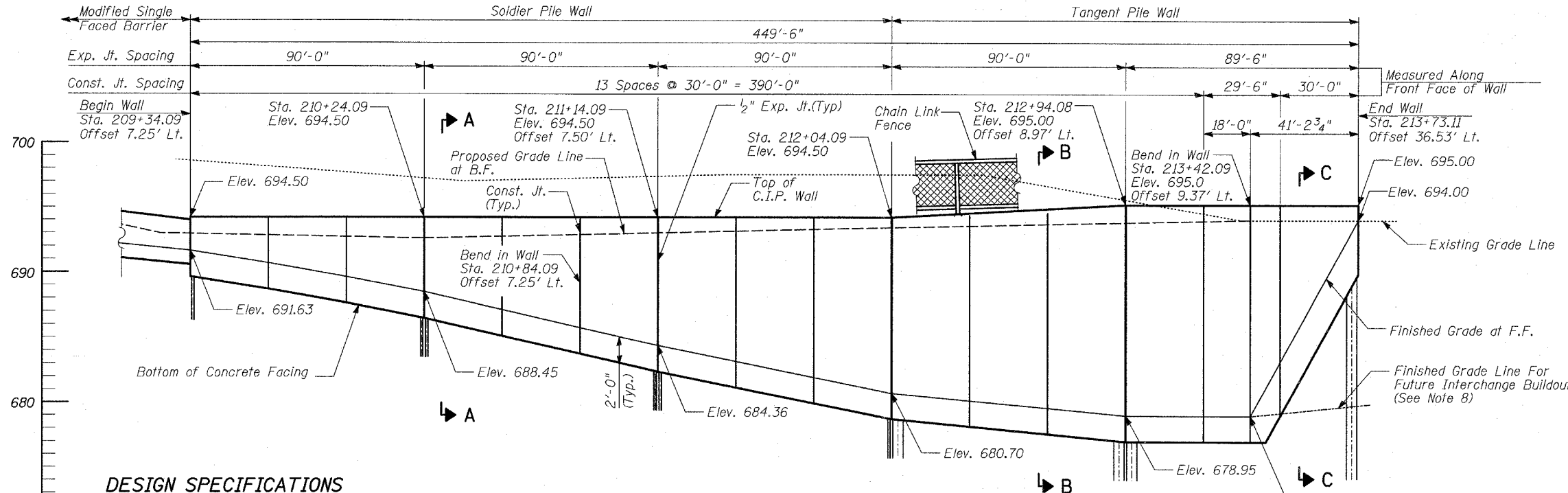
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	1
346	*	LAKE	469	282	17 SHEETS
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		
125X-HB-(1&2) R-1		CONTRACT # 60826			

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	CU YD	770
Concrete Structures	CU YD	233
Anti-Graffiti Coating	SQ FT	5,415
Rustication Finish	SQ FT	4,458
Stud Shear Connectors	EACH	408
Untreated Timber Lagging	SQ FT	2,202
Furnishing Soldier Piles (W Section)	FOOT	1,240
Reinforcement Bars	POUND	177,650
Reinforcement Bars, Epoxy Coated	POUND	36,560
Drilled Shaft in Soil	CU YD	795
Geocomposite Wall Drain	SQ YD	546
Pipe Underdrains for Structures, 4"	FOOT	450
Drilling and Setting Soldier Piles (in Soil)	CU FT	8,459
Chain Link Fence, 42" Attached to Structure (Special)	FOOT	450

NOTES:

- Wall stations and offsets are given to the front face of the concrete facing, and are measured from Ramp A Baseline.
- Existing utilities in conflict with soldier pile wall construction shall be abandoned or relocated according to direction given in roadway plans.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60 (IL Modified). See Special Provisions.
- Reinforcement Bars designated (E) shall be Epoxy Coated.
- All exposed concrete edges shall be chamfered 3/4" except as noted.
- Anti-Graffiti Coating shall be applied to exposed surfaces of the concrete facing.
- All construction joints shall be bonded.
- Design wall heights from Sta. 213+42.08 to Sta. 213+73.11 will be for the Future Interchange Buildout which will accommodate widening of IL132.



DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications For Highway Bridges

DESIGN STRESSES

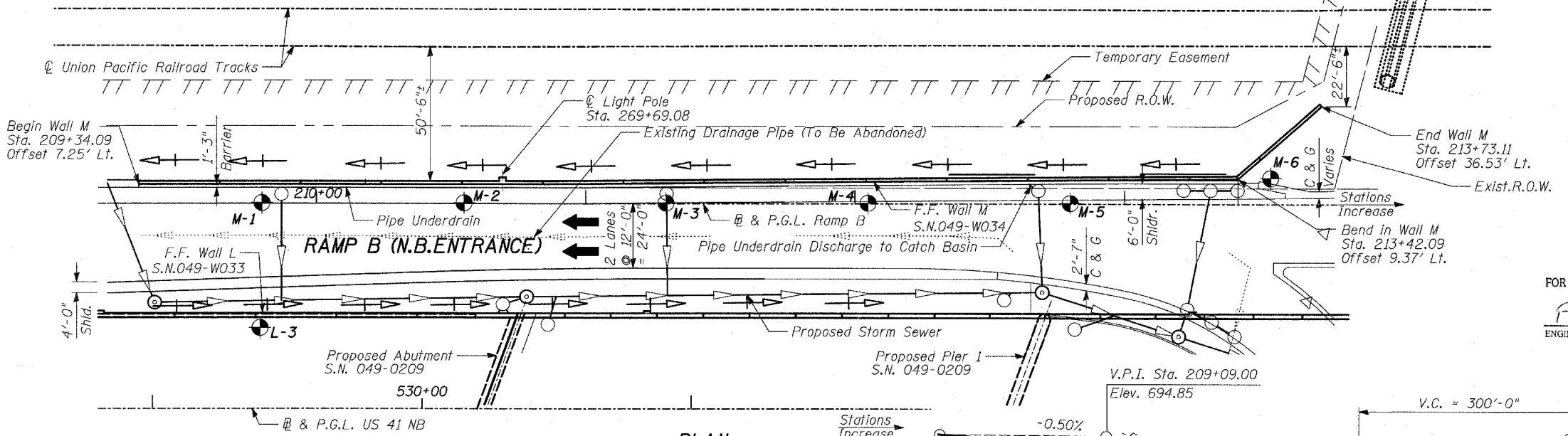
FIELD UNITS

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)  
 $f_y = 36,000$  psi (structural steel M270 Grade 36)

ELEVATION  
(Looking at F.F.)

LEGEND

- ⊙ - Manhole
- - Catch Basin
- ⊕ - Soil Boring
- - Prop. Storm Sewer
- ⋯ - Exist. Drain Pipe
- - Proposed Drainage Swale



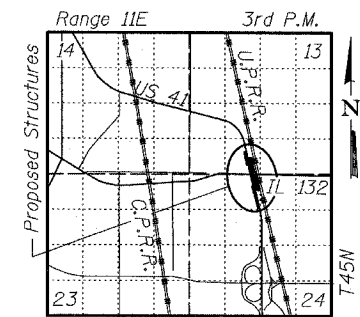
PLAN

PROFILE GRADE RAMP B



Signed *[Signature]*  
 Spiros Pantazis, S.E., II, Lic. No. 081-006448  
 Expires 11-30-2008.  
 Date 5/14/08  
 For drawings 1 thru 17 of 17

APPROVED  
 FOR STRUCTURAL ADEQUACY ONLY  
*Ralph E. Anderson (TTP)*  
 ENGINEER OF BRIDGES AND STRUCTURES



LOCATION SKETCH

INDEX OF SHEETS

- WALL M GENERAL PLAN AND ELEVATION, STA 209+34.09 TO STA 213+73.11
- WALL M PLAN AND ELEVATION, STA 209+34.09 TO 210+24.09
- WALL M PLAN AND ELEVATION, STA 210+24.09 TO 211+14.09
- WALL M PLAN AND ELEVATION, STA 211+14.09 TO 212+04.08
- WALL M PLAN AND ELEVATION, STA 212+04.08 TO 212+94.08
- WALL M PLAN AND ELEVATION, STA 212+94.08 TO 213+73.11
- WALL M REINFORCEMENT DETAILS
- WALL M DETAILS (1 OF 2)
- WALL M DETAILS (2 OF 2)
- CHAIN LINK FENCE DETAILS
- RUSTICATION FINISH
- BORING LOG M-1
- BORING LOG M-2
- BORING LOG M-3
- BORING LOG M-4
- BORING LOG M-5
- BORING LOG M-6

TYLIN INTERNATIONAL

DESIGNED	- MB
CHECKED	- CM/AD
DRAWN	- DE
CHECKED	- CM/AD

WALL M  
GENERAL PLAN AND ELEVATION  
STA 209+34.09 TO STA 213+73.11

FAP 346 (U.S. ROUTE 41 - SKOKIE HIGHWAY) OVER ILLINOIS ROUTE 132  
 SECTION 125X-HB-(1&2)R-1  
 LAKE COUNTY  
 S.N. 049-W034