Benchmarks: BM 3810 Cut square on southerly corner of metal base for overhead sign, on the westerly side of southbound Dan Ryan, opposite of West 77th Place, approximately 1000 feet north of 79th Street bridge. Elev. 0.29 feet.

Existing Structure: None.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	907	586
STA. 1200+00.00	TO STA. 1365+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1516.1, 1717 & 1818) R-9

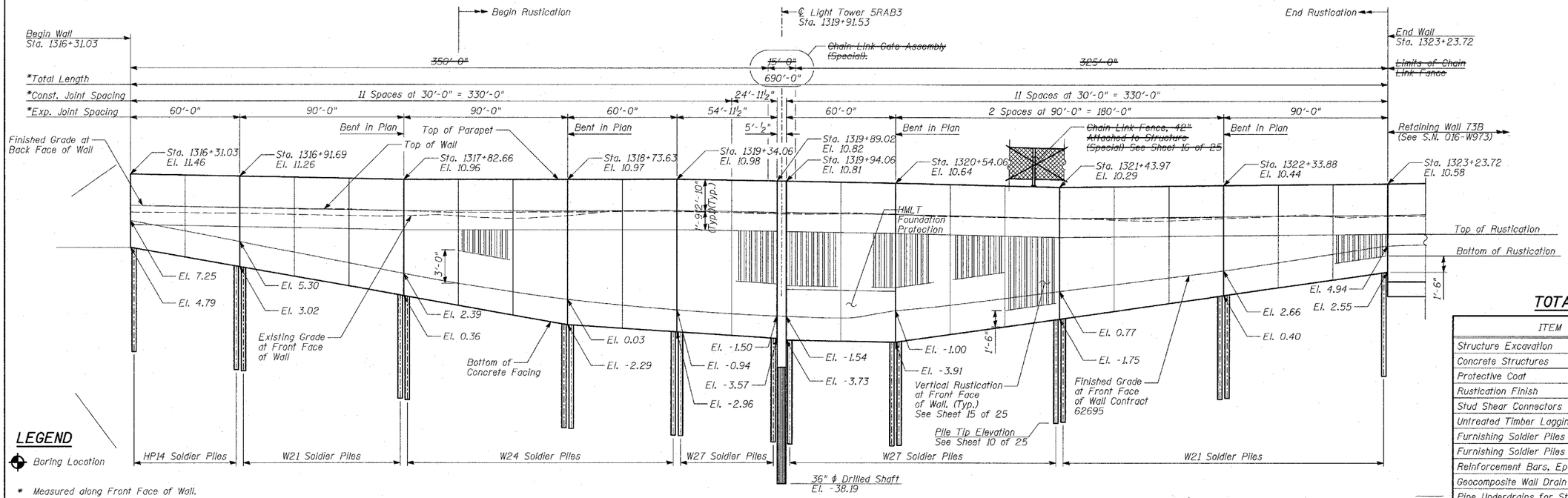
62695

DESIGN SPECIFICATION

AASHTO 2002 Standard Specifications for Highway Bridges

DESIGN STRESSES FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 36,000 psi (M270 Grade 36) Soldier Piles



ELEVATION

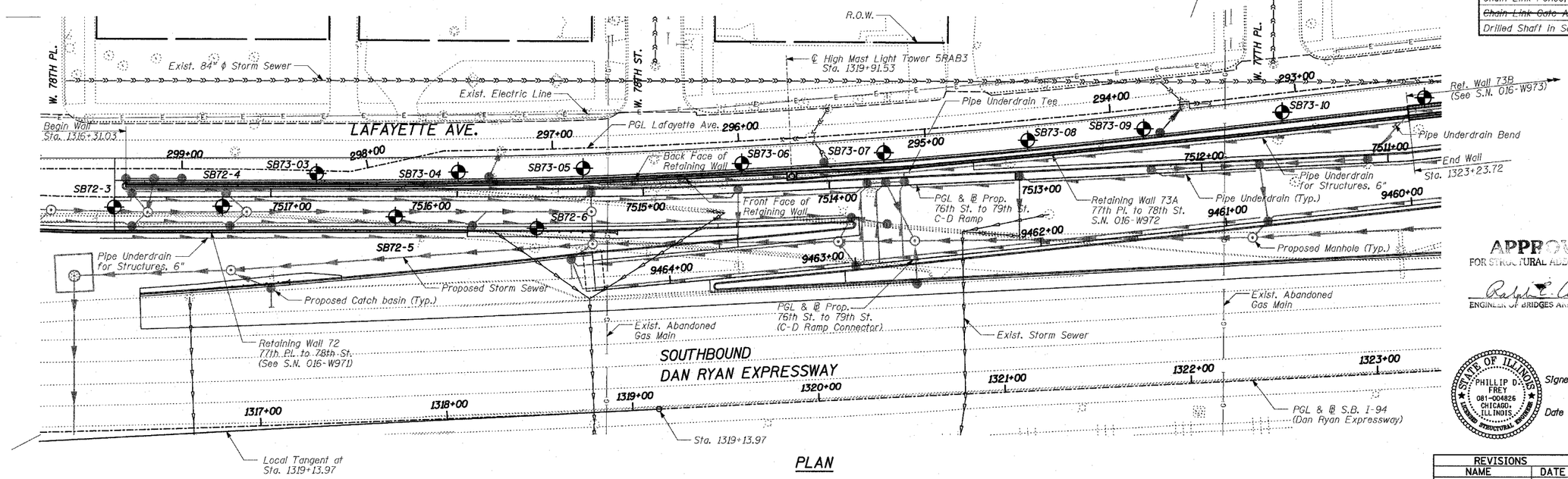
LEGEND

Boring Location

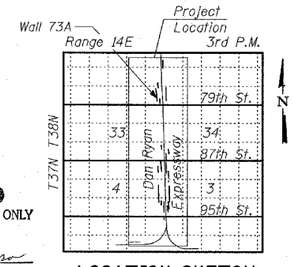
* Measured along Front Face of Wall.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	CU YD	734
Concrete Structures	CU YD	373
Protective Coat	SQ YD	1,061
Rustication Finish	SQ FT	3,373
Stud Shear Connectors	EACH	1,042
Untreated Timber Lagging	SQ FT	4,757
Furnishing Soldier Piles (HP Section)	FOOT	232
Furnishing Soldier Piles (W Section)	FOOT	3,233
Reinforcement Bars, Epoxy Coated	POUND	46,680
Geocomposite Wall Drain	SQ YD	567
Pipe Underdrains for Structures, 6"	FOOT	690
Drilling and Setting Soldier Piles (In Soil)	CU FT	22,031
~~Chain Link Fence, 42" Attached to Structure (Special)~~	~~FOOT~~	~~675~~
~~Chain Link Gate Assembly (Special)~~	~~EACH~~	~~1~~
Drilled Shaft in Soil 36"	FOOT	32



PLAN



LOCATION SKETCH

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS PHILLIP D. FREY 081-004826 CHICAGO, ILLINOIS LICENSED STRUCTURAL ENGINEER

Signed Phillip D. Frey
Phillip D. Frey, S.E. IL Lic. No. 081-004826 Expires 11-30-2006
Date 3/25/05
For drawings 1 thru 25 of 25

SHEET 1 OF 25

NOTE:

For General Notes and Index of Sheets, see Sheet 2 of 25.

REVISIONS NAME	DATE
REVISED	05/06/05
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG LAFAYETTE AVE.
77TH PL. TO 78TH ST.
WALL 73A - GENERAL PLAN
STA. 1316+31.03 TO STA. 1323+23.72

S.N. 016-W972 DESIGNED BY: MI. DJR
SCALE: N.T.S. DRAWN BY: DJR, MAF
DATE: MARCH 25, 2005 CHECKED BY: TD, MI

TY·LIN INTERNATIONAL