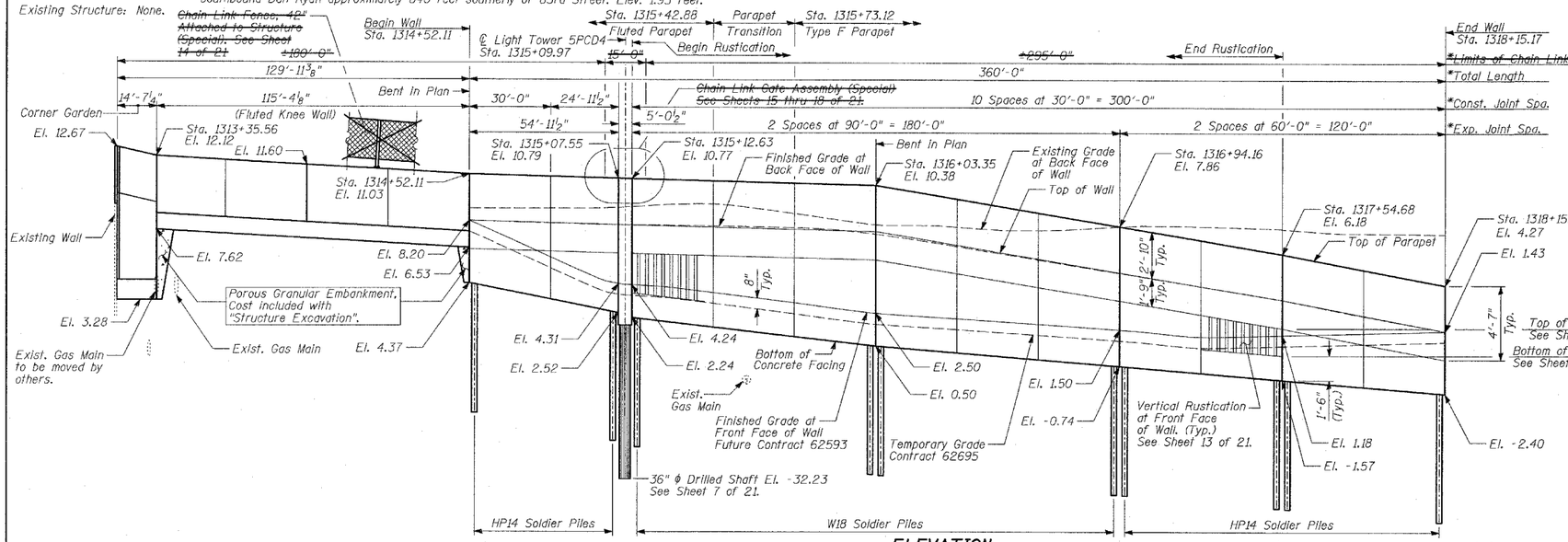
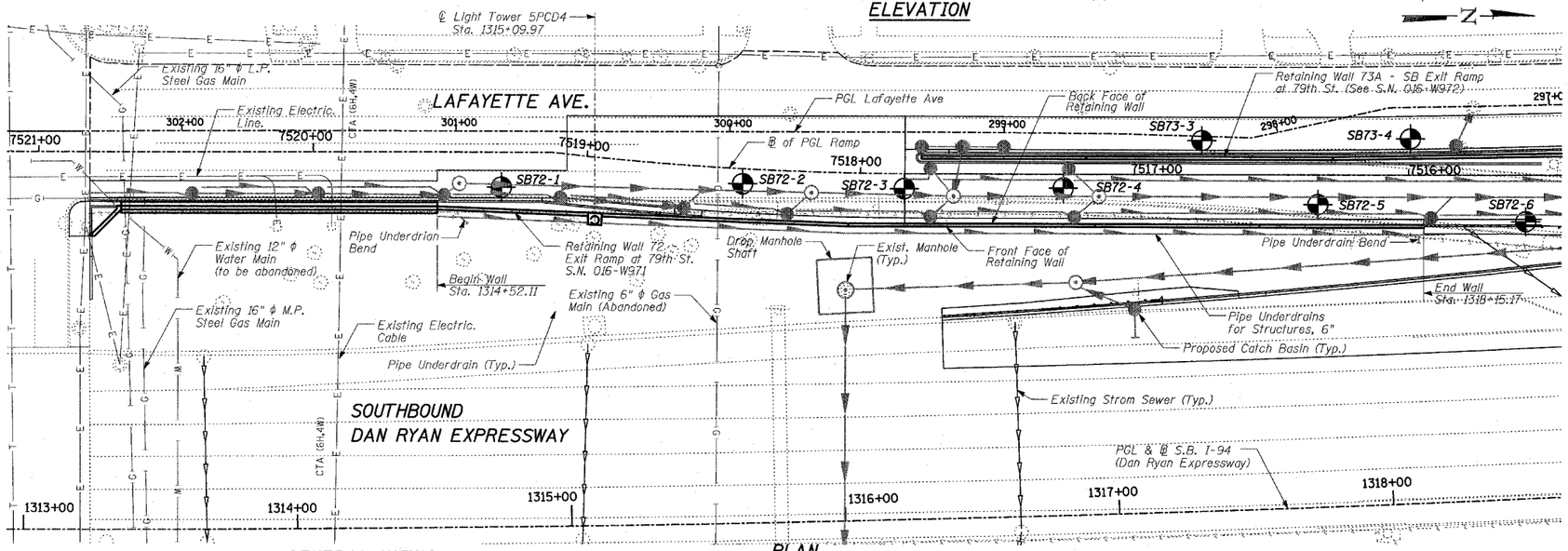
Benchmarks: BM 3810 Cut square on southerly corner of metal base for overhead sign, on the westerly side of southbound Dan Ryan, opposite of West 77th Place, approximately 1000 feet north of 79th Street bridge. Elev. 0.29 feet.
BM 3811 Cut square on southeasterly corner of metal base for overhead sign, on the westerly side of southbound Dan Ryan approximately 840 feet southerly of 83rd Street. Elev. 1.95 feet.

Existing Structure: None.



ELEVATION



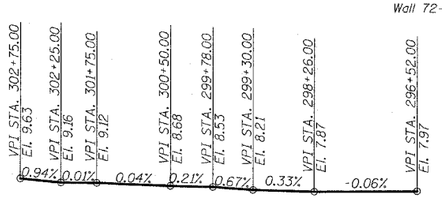
PLAN

LEGEND

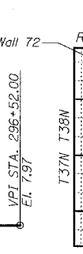
- Boring Location
- * Measured along Front Face of Wall.

GENERAL NOTES:

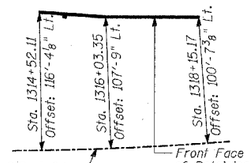
1. Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.
2. Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additonal compensation for a change in the scope of the work; however, the Contractor will be paid for the quantity actually finished at the unit price bid for the work.
3. The Contractor is responsible for the design and performance of the lagging using no less than 3" nominal rough-sawn thickness and the minimum tabulated unit stress in bending (F_b), used in the design of timber lagging shall be 1000 psi.
4. The soldier piles shall be cleaned and given one shop coat of Inorganic Zinc-Rich primer.
5. All exposed concrete edges shall be chamfered $\frac{3}{4}$" except as noted.
6. Protective Coat shall be applied to exposed surfaces of the concrete facing.
7. Existing utilities in conflict with soldier pile wall construction shall be abandoned or relocated according to directions given on the roadwayplans.
8. All construction joints shall be bonded.
9. All elevations shown are based on the Chicago City Datum of 0.00, which is 579.19 feet above mean tide New York. (NAVD 88)
10. The wall shall be backfilled (where applicable) prior to placing the concrete facing.
11. The Contractor is responsible to coordinate all electrical crossings with this Contract and with Contract 62583.



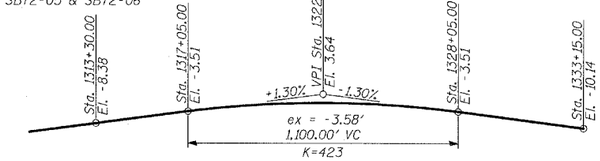
PROFILE GRADE
(Lafayette Ave.)



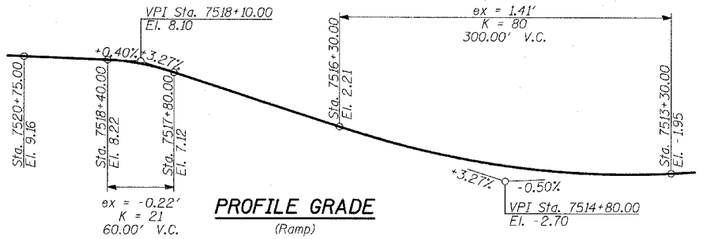
LOCATION SKETCH



OFFSET SKETCH



PROFILE GRADE
(Southbound I-94)



PROFILE GRADE
(Ramp)

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

LOADING

Maximum soil pressure under footings is 2,250 psf.

INDEX OF SHEETS

1. GENERAL PLAN
2. PLAN AND ELEVATION STA. 1314+52.11 TO STA. 1316+03.35
3. PLAN AND ELEVATION STA. 1316+03.35 TO STA. 1317+54.68
4. PLAN AND ELEVATION STA. 1317+54.68 TO STA. 1318+15.17
5. PARAPET TRANSITION
6. PILE LAYOUT, DETAILS & BILL OF MATERIAL
7. LIGHT TOWER 5PCD4 FOUNDATION DETAILS
8. LIGHT TOWER DETAILS
9. PLAN AND ELEVATION - FLUTED KNEE WALL (1 OF 2)
10. PLAN AND ELEVATION - FLUTED KNEE WALL (2 OF 2)
11. TYPICAL SECTIONS, ELEVATIONS AND DETAILS - FLUTED KNEE WALL
12. WALL CROSS SECTIONS & DETAILS
13. RUSTICATION DETAILS
~~14. CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL)~~
~~15. GATE PLAN AND NOTES~~
~~16. GATE ELEVATIONS~~
~~17. GATE SECTIONS~~
~~18. GATE SECTIONS AND DETAILS~~
19. BORING LOGS SB72-01 & SB72-02
20. BORING LOGS SB72-03 & SB72-04
21. BORING LOGS SB72-05 & SB72-06

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	907	565
STA. 1200+00.00	TO STA. 1365+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• (1516.1, 1717 & 1818) R-9				62695

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	CU YD	1
Structure Excavation	CU YD	416
Concrete Structures	CU YD	181
Protective Coat	SQ YD	543
Rustication Finish	SQ FT	1,091
Stud Shear Connectors	EACH	368
Untreated Timber Lagging	SQ FT	1,515
Furnishing Soldier Piles (HP Section)	FOOT	644
Furnishing Soldier Piles (W Section)	FOOT	747
Reinforcement Bars, Epoxy Coated	POUND	27,370
Removing and Re-Erecting Existing Railing	FOOT	11
Geocomposite Wall Drain	SQ YD	189
Pipe Underdrains for Structures, 6"	FOOT	360
Drilling and Setting Soldier Piles (in Soil)	CU FT	7,669
~~Chain Link Fence, 42" Attached to Structure (Special)~~	~~FOOT~~	~~475~~
~~Chain Link Gate Assembly (Special)~~	~~EACH~~	~~1~~
Drilled Shaft in Soil 36"	FOOT	34

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.
For drawings 1 thru 21 of 21
Date 3/25/05

SHEET 1 OF 21

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
SOUTHBOUND EXIT RAMP RETAINING WALL AT 79TH ST.
WALL 72 - GENERAL PLAN
STA. 1314+52.11 TO STA. 1318+15.17

S.N. 016-W971 | SCALE: N.T.S. | DATE: MARCH 25, 2005
DESIGNED BY: MI, MAF | DRAWN BY: MAF, DJR | CHECKED BY: TD, MI

TY·LIN INTERNATIONAL

$FILES
$DATE$