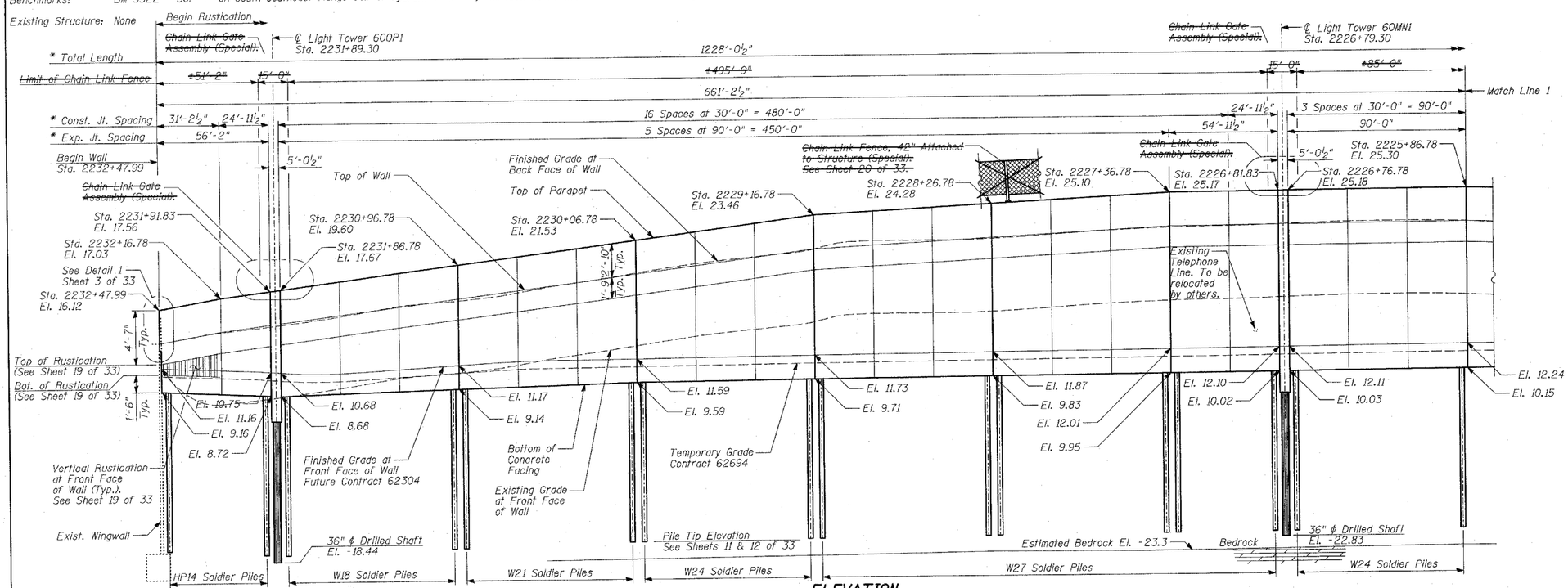
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	860	450
STA. 2200+00.00		TO STA. 2362+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• (1516.1, 1717 & 1818) R-8				62694

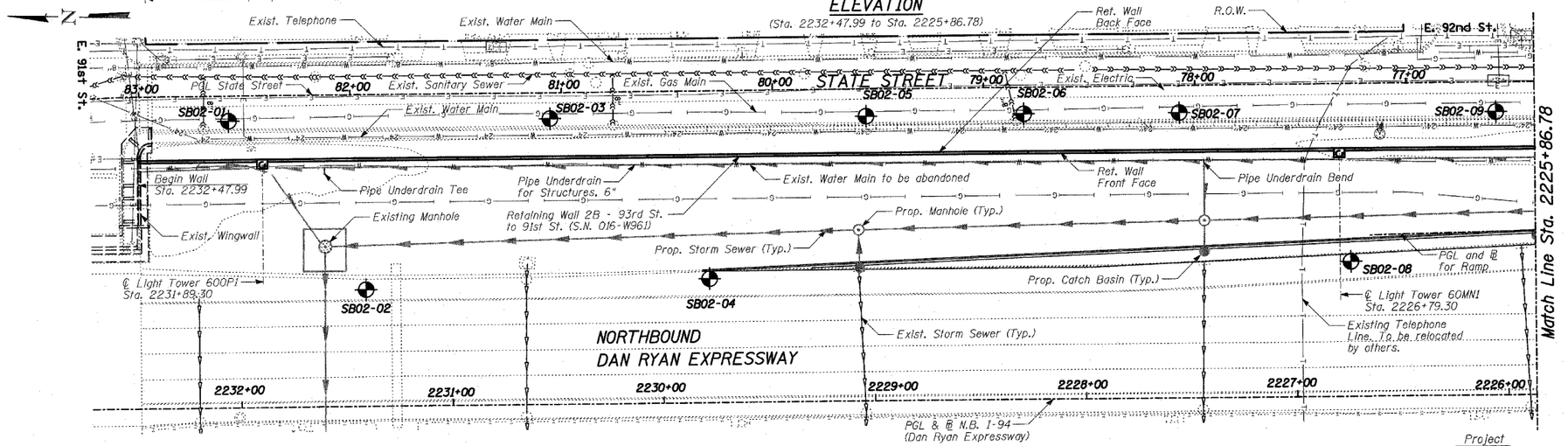
Benchmarks: BM 3522 Set "+" on south southeast flange bolt of hydrant ± halfway between north and south entrance to Citgo, east side of State St. and north of 95Th St. El. 18.06

Existing Structure: None



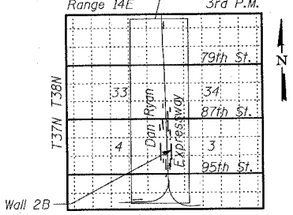
ELEVATION

(Sta. 2232+47.99 to Sta. 2225+86.78)



PLAN

(Sta. 2232+47.99 to Sta. 2225+86.78)



LOCATION SKETCH

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	CU YD	1,332
Concrete Removal	CU YD	2
Structure Excavation	CU YD	676
Concrete Structures	CU YD	738
Protective Coat	SQ YD	2,202
Rustication Finish	SQ FT	11,075
Stud Shear Connectors	EACH	3,180
Untreated Timber Lagging	SQ FT	11,160
Furnishing Soldier Piles (HP Section)	FOOT	183
Furnishing Soldier Piles (W Section)	FOOT	8,568
Reinforcement Bars, Epoxy Coated	POUND	93,760
Geocomposite Wall Drain	SQ YD	1,308
Pipe Underdrains for Structures, 6"	FOOT	1,229
Drilling and Setting Soldier Piles (In Soil)	CU FT	52,151
~~Chain Link Fence, 42" Attached to Structure (Special)~~	~~FOOT~~	~~1,184~~
~~Chain Link Gate Assembly (Special)~~	~~EACH~~	~~3~~
Drilled Shaft in Soil 36"	FOOT	89

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

INDEX OF SHEETS

1. GENERAL PLAN
2. GENERAL PLAN
3. PLAN AND ELEVATION STA. 2232+47.99 TO STA. 2230+96.78
4. PLAN AND ELEVATION STA. 2230+96.78 TO STA. 2229+16.78
5. PLAN AND ELEVATION STA. 2229+16.78 TO STA. 2227+36.78
6. PLAN AND ELEVATION STA. 2227+36.78 TO STA. 2225+86.78
7. PLAN AND ELEVATION STA. 2225+86.78 TO STA. 2224+06.78
8. PLAN AND ELEVATION STA. 2224+06.78 TO STA. 2222+56.78
9. PLAN AND ELEVATION STA. 2222+56.78 TO STA. 2221+36.78
10. PLAN AND ELEVATION STA. 2221+36.78 TO STA. 2220+20.60
11. PILE LAYOUT
12. PILE LAYOUT, DETAILS & BILL OF MATERIAL
13. LIGHT TOWER 600P1 FOUNDATION DETAILS
14. LIGHT TOWER 60MN1 FOUNDATION DETAILS
15. LIGHT TOWER 60MN2 FOUNDATION DETAILS
16. LIGHT TOWER DETAILS
17. WALL CROSS SECTIONS & DETAILS (1 OF 2)
18. WALL CROSS SECTIONS & DETAILS (2 OF 2)
19. RUSTICATION DETAILS
~~20. CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL)~~
~~21. GATE PLAN AND NOTES~~
~~22. GATE ELEVATIONS~~
~~23. GATE SECTIONS~~
~~24. GATE SECTIONS AND DETAILS~~
25. BORING LOGS SB02-01 & SB02-02
26. BORING LOGS SB02-03 & SB02-04
27. BORING LOGS SB02-05 & SB02-06
28. BORING LOGS SB02-07 & SB02-08
29. BORING LOGS SB02-09 & SB02-10
30. BORING LOGS SB02-11 & SB02-12
31. BORING LOGS SB02-13 & SB02-14
32. BORING LOGS SB02-15 & SB02-16
33. BORING LOG SB02-17

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E Anderson (TD)
ENGINEER OF BRIDGES AND STRUCTURES

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. 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.
3. The soldier piles shall be cleaned and given one shop coat of Inorganic Zinc-Rich primer.
4. All exposed concrete edges shall be chamfered $\frac{3}{4}$" except as noted.
5. Protective coat shall be applied to exposed surfaces of the concrete facing.
6. Existing utilities in conflict with soldier pile wall construction shall be abandoned or relocated according to directions given on the roadway plans.
7. All construction joints shall be bonded.
8. 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)
9. The wall shall be backfilled (where applicable) prior to placing the concrete facing.
10. The Contractor is responsible to coordinate all electrical crossings with this Contract and with Contract 62583.

TY·LIN INTERNATIONAL

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 33 of 33
Date 3/18/05

SHEET 1 OF 33

REVISIONS NAME	DATE
REVISED	04/15/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG STATE ST.
93RD ST. TO 91ST ST.
WALL 2B - GENERAL PLAN
STA. 2232+47.99 TO STA. 2220+20.60

S.N. 016-W961 — DESIGNED BY: MI, DJR
SCALE: N.T.S. — DRAWN BY: DJR, MAF
DATE: MARCH 18, 2005 — CHECKED BY: TD, MI

$FILE$ $TIME$ $DATE$