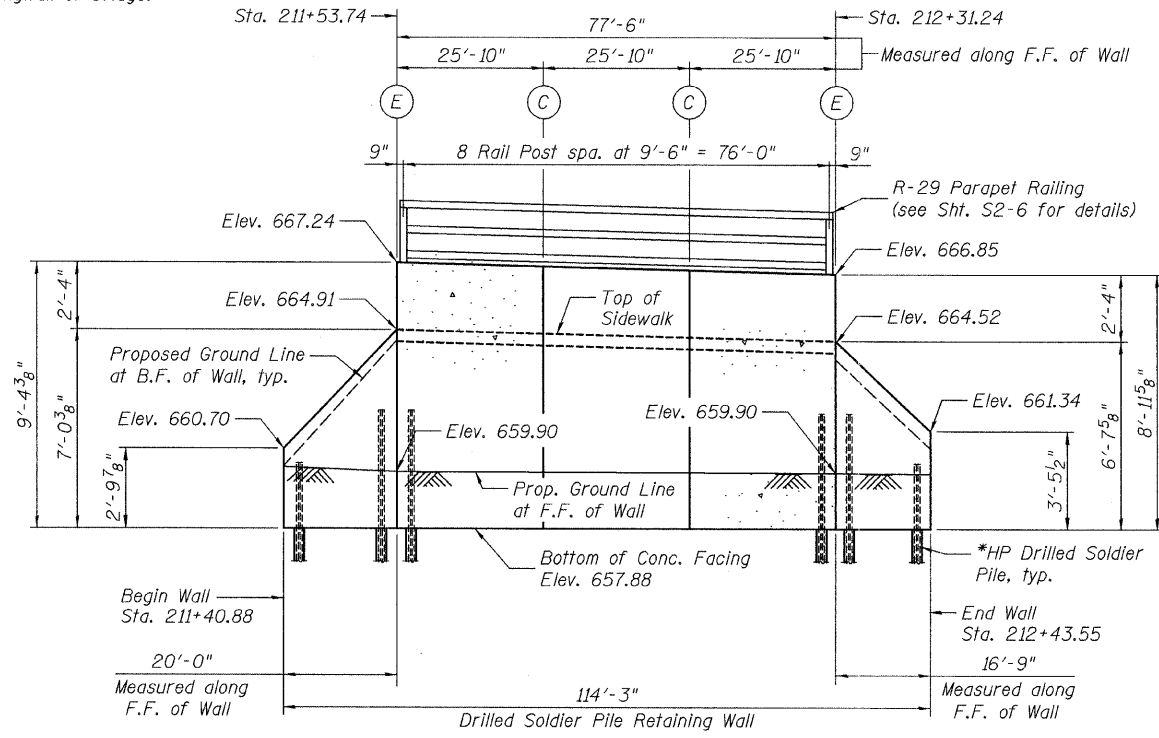
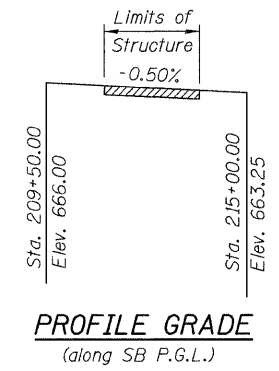


Bench Mark:
Chiseled box on top of S.E. wingwall of bridge.
Elevation 669.64



ELEVATION
(Looking at F.F. of Wall)

*See Sht's. S2-2 thru S2-5 for pile sections, spacings and tip elevations

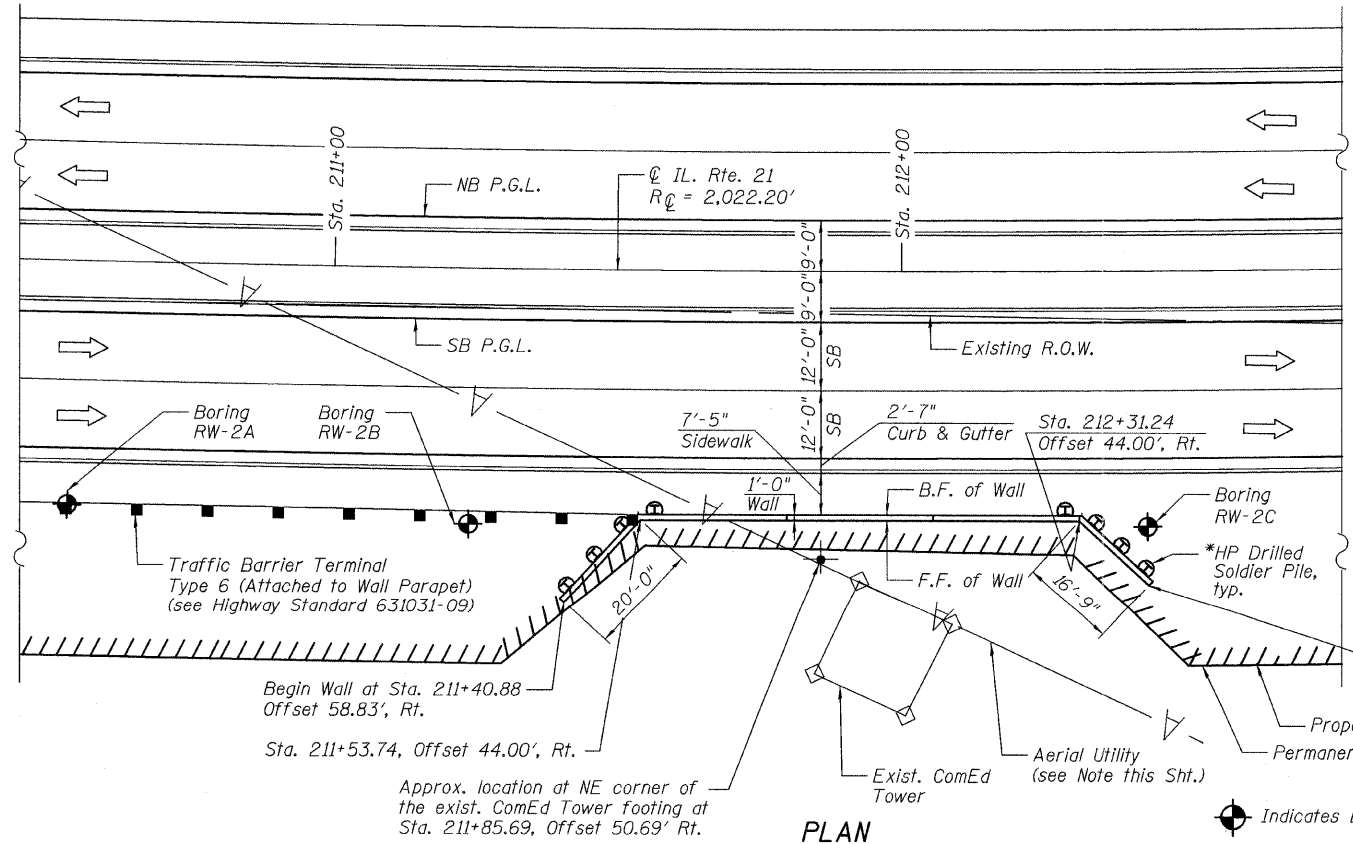


PROFILE GRADE
(along SB P.G.L.)

LEGEND:
F.F. = Front Face
B.F. = Back Face
(C) = Construction Joint
(E) = Expansion Joint

CURVE DATA

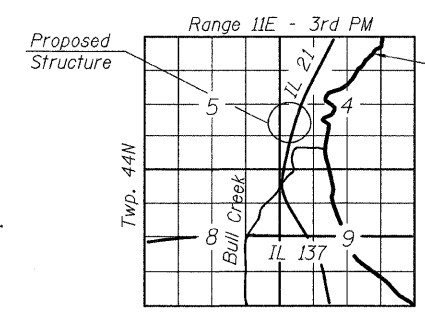
(@ IL. Rte. 21)
Δ = 46°-11'-38"
D = 2°-50'-00"
T = 862.41'
L = 1,630.37'
E = 176.22'
R = 2,022.20'
S.E. = 2.90%
P.C. Sta. = 243+66.70
P.T. Sta. = 259+97.07
P.I. Sta. = 252+29.11



PLAN

PLAN

The Contractor shall use extreme care as not to damage or disturb the Aerial Utility and the exist. ComEd Tower and Footing.



LOCATION SKETCH

INDEX OF SHEETS

- S2-1 GENERAL PLAN & ELEVATION
- S2-2 PLAN & ELEVATION-I
- S2-3 PLAN & ELEVATION-II
- S2-4 RETAINING WALL SECTIONS
- S2-5 SOLDIER PILE SCHEDULE & DETAILS
- S2-6 PARAPET RAILING
- S2-7 SOIL BORING LOGS

TOTAL BILL OF MATERIAL

DESCRIPTION	UNIT	QUANTITY
Structure Excavation	Cu. Yd.	38
Concrete Structures	Cu. Yd.	33.1
Form Liner Textured Surface	Sq. Ft.	780
Stud Shear Connectors	Each	388
Reinforcement Bars, Epoxy Coated	Pound	6,120
Parapet Railing	Foot	78
Geocomposite Wall Drain	Sq. Yd.	36
Concrete Gutter, Type B	Foot	37
Untreated Timber Lagging	Sq. Ft.	468
Furnishing Soldier Piles (HP Section)	Foot	346
Pipe Underdrains for Structures 4"	Foot	124
Drilling and Setting Soldier Piles (in Soil)	Cu. Ft.	1,510
Stain For Concrete Structures	Sq. Yd.	87

DESIGN SPECIFICATIONS

AASHTO 2002 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)



Bhadresh N. Shah
BHADRESH N. SHAH Aug. 15, 2011
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS LIC. NO. 081-004476
EXPIRES: 11-30-12

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 21 - RETAINING WALL NO. 2
F.A.P. 330 SEC. 128R-3
LAKE COUNTY
STATION 211+40.88 TO 212+43.25
STRUCTURE NO. 049-W018



FILE NAME = D168953-01-GPE.dgn	USER NAME =	DESIGNED - J.C.N./B.N.S.	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION STRUCTURE NO. 049-W018	F.A.P. RTE. 330	SECTION 128R-3	COUNTY LAKE	TOTAL SHEETS 518	SHEET NO. 294
PLOT SCALE =	CHECKED - B.N.S.	REVISD -	SHEET NO. S2-1 OF S2-7 SHEETS			CONTRACT NO. 60953				
PLOT DATE =	DRAWN - F.M.	REVISD -	ILLINOIS FED. AID PROJECT							
	CHECKED - B.N.S./J.C.N.	REVISD -								