

Bench Mark:
 (BM#299) Railroad spike in power pole, North side of center line US 34
 Sta. 59+72.36, Offset 49.27' Lt., Elev. 646.929.
 Existing Structure: None.

DESIGN SPECIFICATIONS

2002 AASHTO

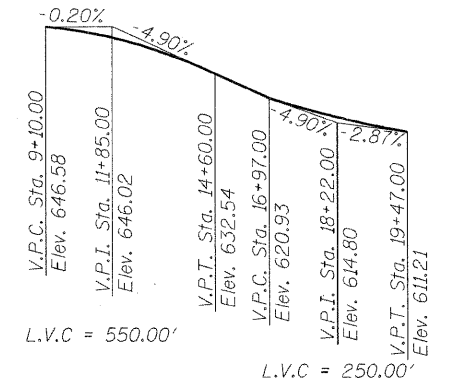
DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (AASHTO M270 Grade 50)
 (Soldier Piles)

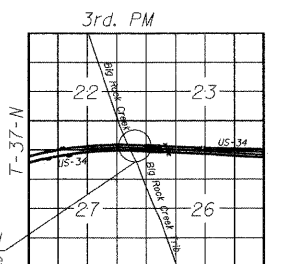
CURVE DATA

(U.S. Rte 34 P11-1)
 P.I. Sta. = 12+39.83
 $\Delta = 18^\circ-54'-33"$ (RT)
 $D = 1^\circ-31'-40"$
 $T = 624.48'$
 $L = 1,237.60'$
 $E = 51.64'$
 $e = 2.2\%$
 $R = 3,750.00'$
 P.C. Sta. = 6+15.36
 P.T. Sta. = 18+52.96
 $T.R. = 66.6'$
 $S.E. \text{ Runoff} = 73.3'$
 $S.E. \text{ Removed from Sta } 18+16.33 \text{ to } 19+56.19$



PROFILE GRADE

(along \hat{C} of U.S. Rte. 34)

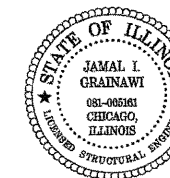


LOCATION SKETCH

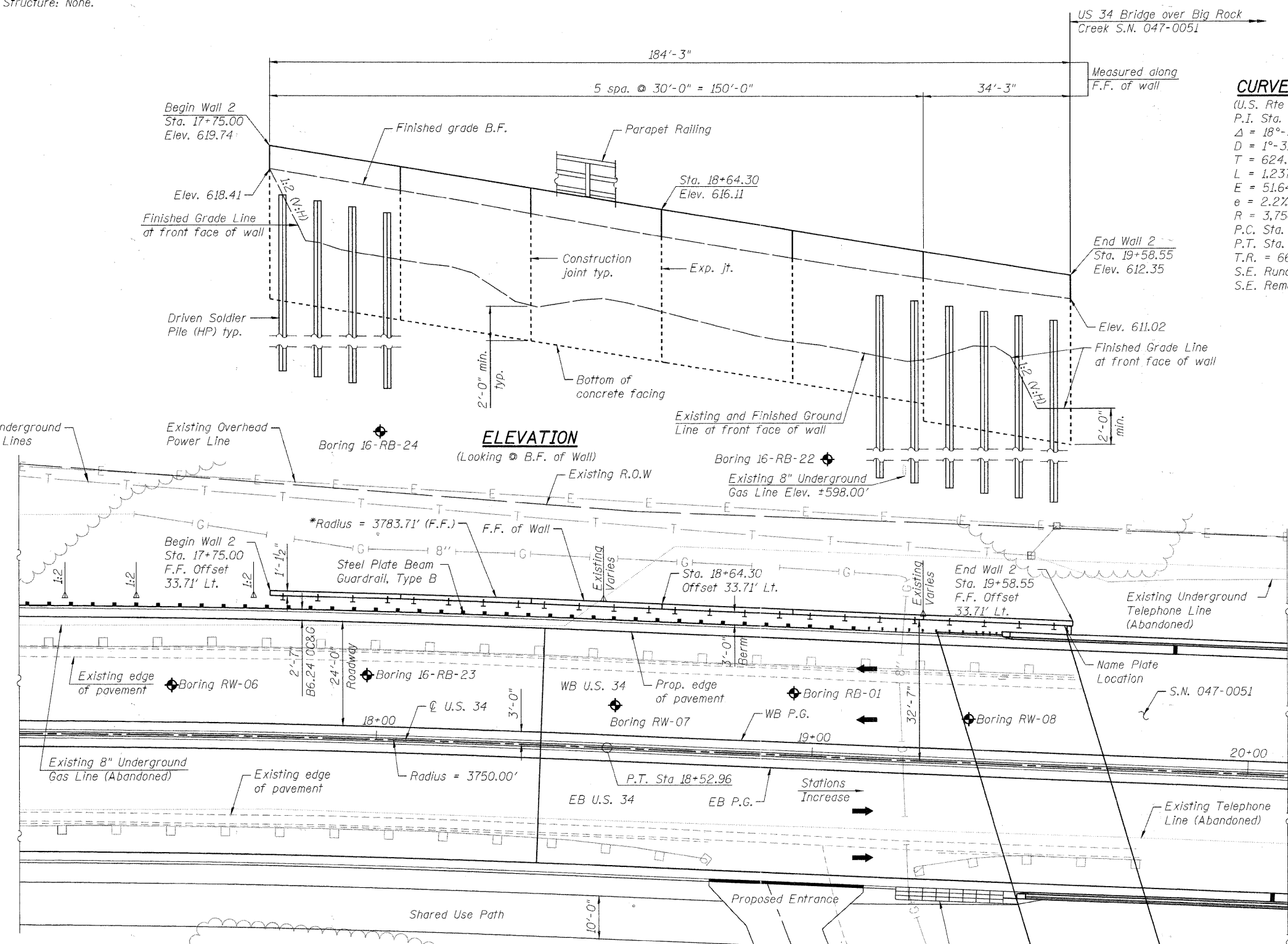
APPROVED
 FOR STRUCTURAL ADEQUACY ONLY

Jamal I. Grainawi
 ENGINEER OF BRIDGES AND STRUCTURES

Signed *Jamal I. Grainawi*
 JAMAL I. GRAINAWI, S.E. II. Lic. No. 081-005161
 Expires 11-30-2012.
 Date MAY 6, 2011



GENERAL PLAN & ELEVATION
U.S. ROUTE 34
F.A.P RTE. 591 - SEC. 14R-1
KENDALL COUNTY
STATION 17+75.00 TO 19+58.55
STRUCTURE NO. 047-8801



ELEVATION

(Looking @ B.F. of Wall)

PLAN

* Wall to be built along straight chords between adjacent construction joints & expansion joints.
 Notes:
 Wall offset are measured from the \hat{C} U.S. Rte. 34 to the front face of the wall.
 F.F. - Front Face
 B.F. - Back Face

T:\16829-PrattPkwy-Ph2\StructCadd\PreFinal\US34 Retaining Wall 2\0478801-66985-001-GPE.dgn 05-MAY-2011 10:34

PB Americas, Inc. 230 WEST MONROE STREET, SUITE 900 CHICAGO, IL 60606 (312)782-8150	FILE NAME = 0478801-66985-001-GPE.dgn	DESIGNED - S. CHELBIAN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION STRUCTURE NO. 047-8801 SHEET NO. 1 OF 11 SHEETS	F.A.P. RTE. 591	SECTION 13R-2;14R-1 & BR-10;15R-1	COUNTY KENDALL	TOTAL SHEETS 429	SHEET NO. 307
	PLOT SCALE = NONE	CHECKED - M. Shaikh	REVISED -			CONTRACT NO. 66985	(ILLINOIS) FED. AID PROJECT			
	PLOT DATE = 5/5/2011	DRAWN - D. C. PATEL	REVISED -							
		CHECKED - J. GRAINAWI	REVISED -							