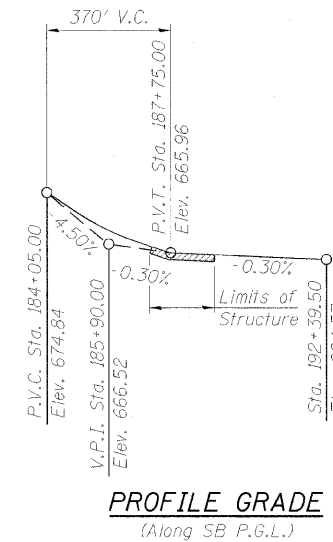
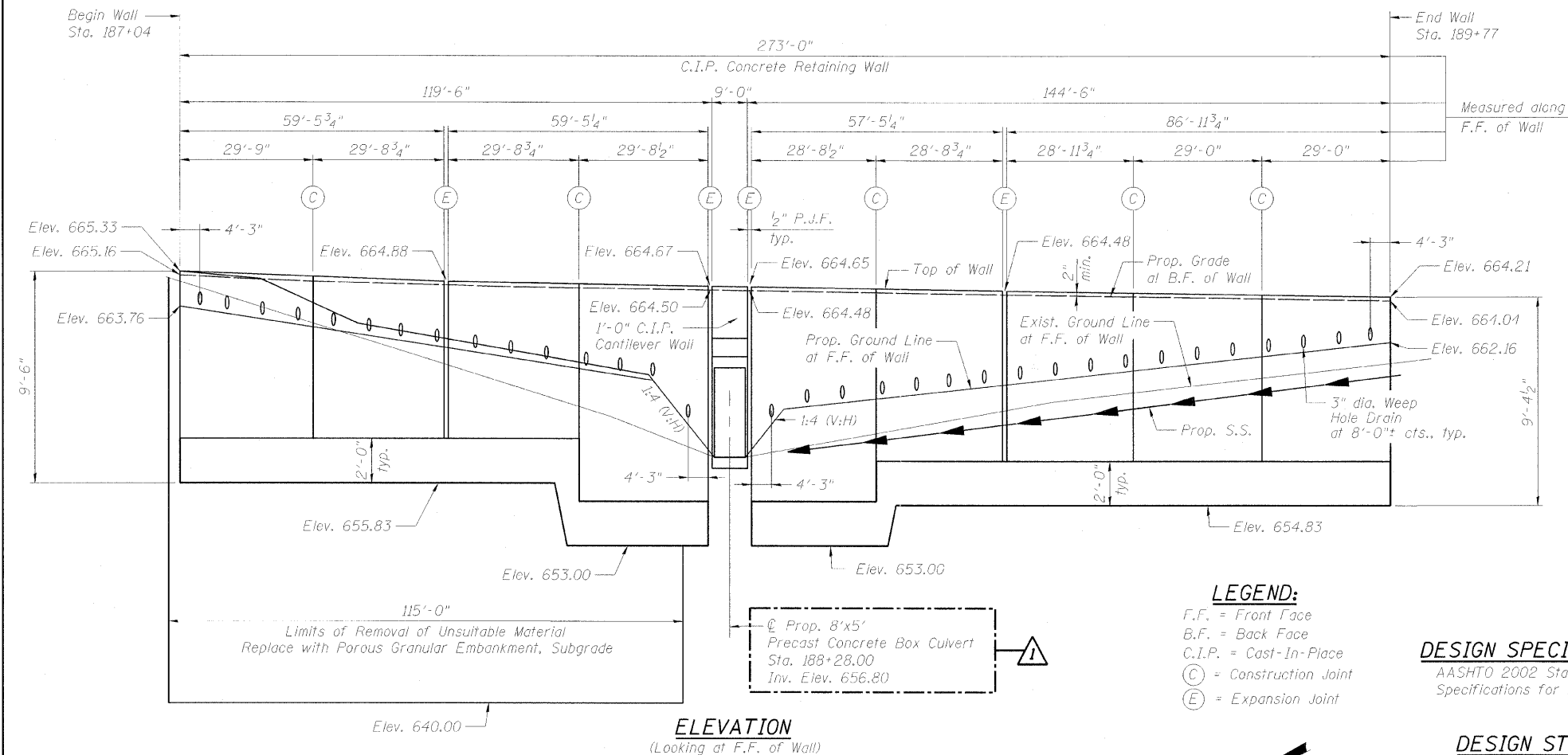


Bench Mark:
Chiseled box on top of S.E. wingwall of bridge,
Elevation 669.64



INDEX OF SHEETS

- S1-1 GENERAL PLAN & ELEVATION
- S1-2 PLAN & ELEVATION-I
- S1-3 PLAN & ELEVATION-II
- S1-4 RETAINING WALL SECTIONS
- S1-5 RETAINING WALL DETAILS
- S1-6 TEMPORARY SOIL RETENTION SYSTEM
- S1-7 SOIL BORING LOGS-I
- S1-8 SOIL BORING LOGS-II

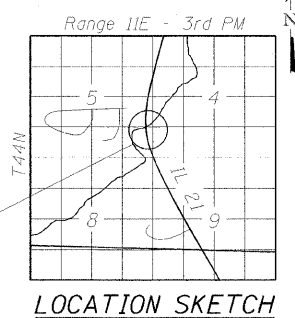
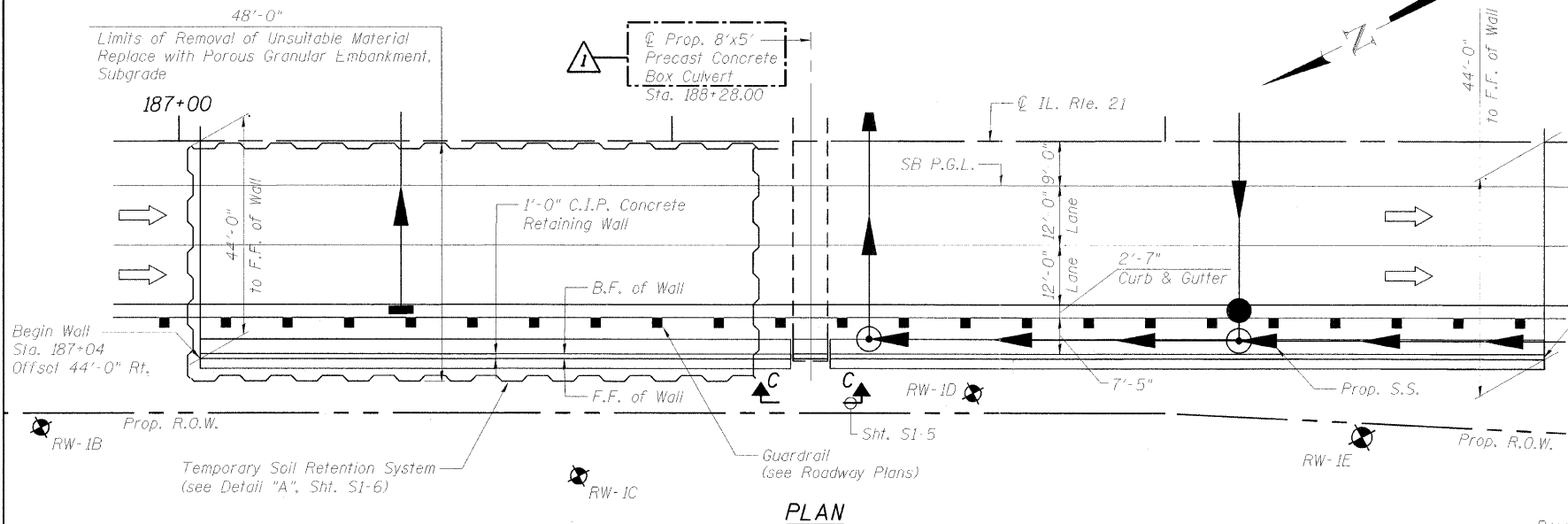
TOTAL BILL OF MATERIAL

DESCRIPTION	UNIT	QUANTITY
Structure Excavation	Cu. Yd.	320
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	4,600
Concrete Structures	Cu. Yd.	200.0
Form Liner Textured Surface	Sq. Ft.	1,670
Reinforcement Bars, Epoxy Coated	Pound	21,630
Geocomposite Wall Drain	Sq. Yd.	106
Concrete Gutter, Type B	Foot	273
Temporary Soil Retention System	Sq. Ft.	7,600
Porous Granular Embankment, Subgrade	Cu. Yd.	3,230
Porous Granular Embankment, Special	Cu. Yd.	318
Stain For Concrete Structures	Sq. Yd.	186

LEGEND:
 F.F. = Front Face
 B.F. = Back Face
 C.I.P. = Cast-In-Place
 (C) = Construction Joint
 (E) = Expansion Joint

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
 LICENSED STRUCTURAL ENGINEER
 STATE OF ILLINOIS LIC. No. 081-004476
 EXPIRES: 11-30-12

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 21 - RETAINING WALL NO. 1
F.A.P. 330 SEC. 128R-3
LAKE COUNTY
STATION 187+04.00 TO 189+77.00
STRUCTURE NO. 049-W017

CHRISTIAN-ROGE & ASSOCIATES, INC.

FILE NAME = 0168953-01-GPE.dgn	USER NAME =	DESIGNED - J.C.N./B.N.S.	REVISED - 9/2/2011 J.C.N.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION STRUCTURE NO. 049-W017	F.A.P. RTE. 330	SECTION 128R-3	COUNTY LAKE	TOTAL SHEETS 518	SHEET NO. 286	
PLOT SCALE =	DRAWN - F.M.	CHECKED - B.N.S.	REVISED -			CONTRACT NO. 60953					
PLOT DATE =	CHECKED - B.N.S./J.C.N.	DRAWN - F.M.	REVISED -			ILLINOIS FED. AID PROJECT					
						SHEET NO. S1-1 OF S1-8 SHEETS					