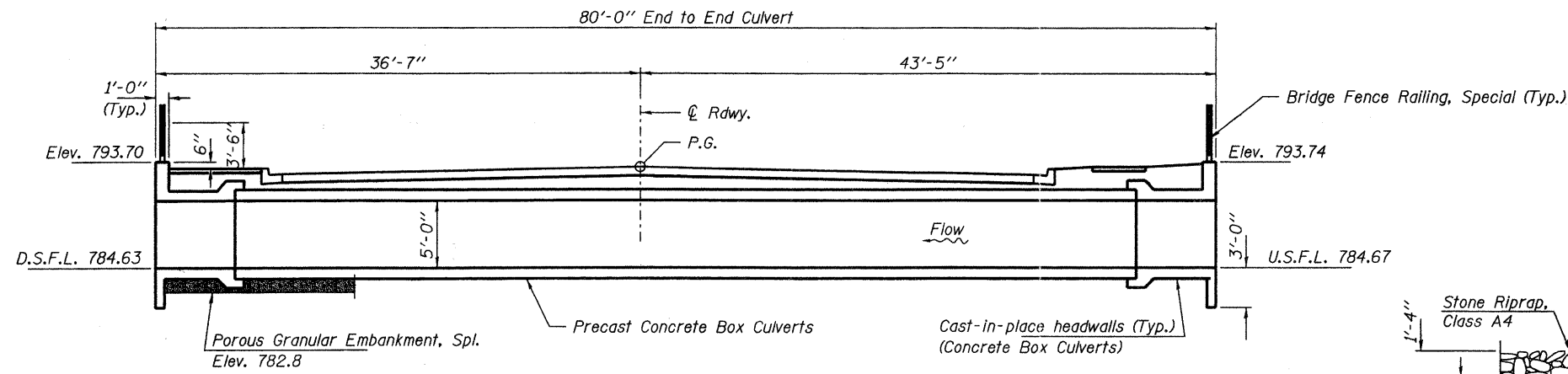


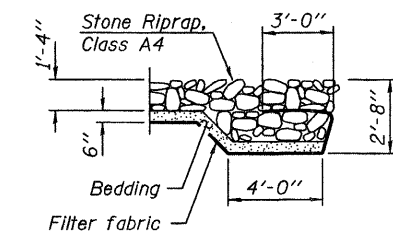
EXISTING STRUCTURE: Triple C.M.P. culvert with concrete headwalls. 3 - 8'-7" x 5'-11" C.M.P. @ 99'-0"± long.

GENERAL NOTES

All reinforcement bars shall be epoxy coated.
 Exposed edges shall be beveled 3/4".
 Reinforcement Bars shall conform to the requirements of AASHTO M31 or M322, Grade 60.
 Bars indicated thus 11x2-#8 etc. indicates 11 lines of bars with 2 lengths per line.
 Box Culvert End Sections shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of AASHTO M 273.
 The minimum concrete strength shall be 5,000 psi.
 Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.



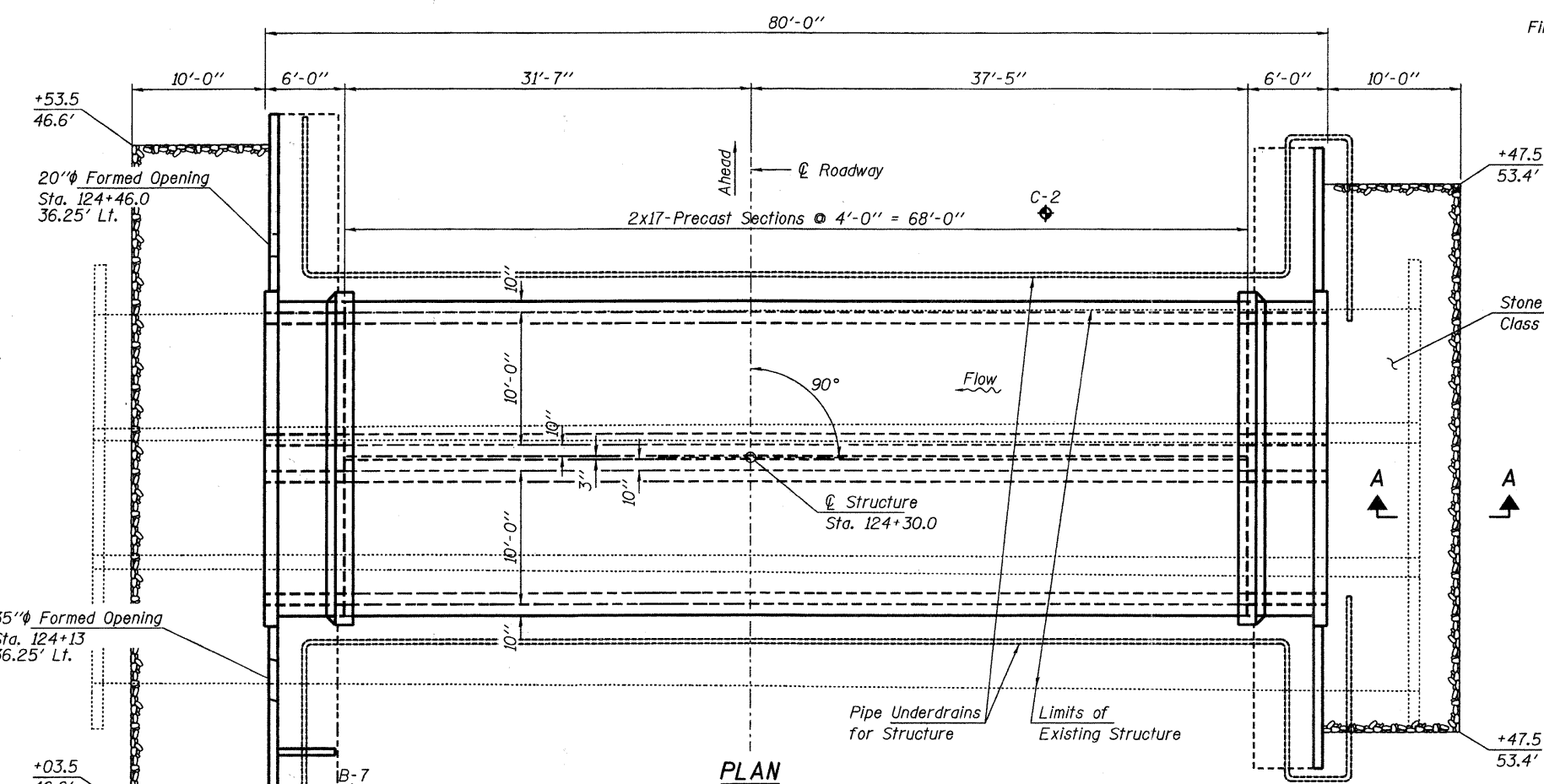
TYPICAL SECTION
(Looking North)



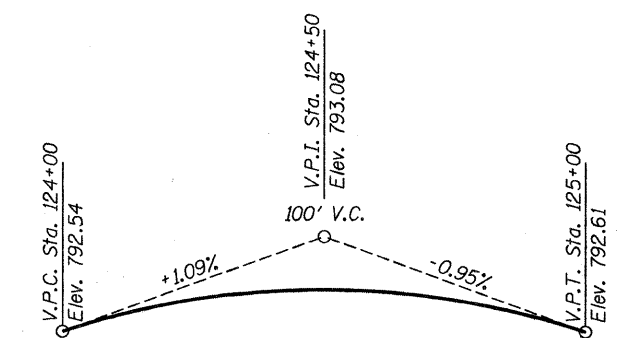
SECTION A-A

INDEX OF STRUCTURE SHEETS

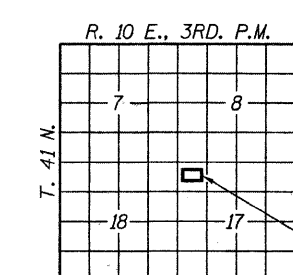
1. General Plan & Elevation
- 2-6. Culvert Details
- 7-8. Pedestrian Railing
9. Borings



PLAN



PROFILE GRADE
Walnut Lane



LOCATION SKETCH

STA. 124+30
 BUILT 2011 BY
 VILLAGE OF SCHAUMBURG
 SEC. 08-00094-01-BR
 FAU 2556
 STR. NO. 016-6803
 LOADING HS20-44

NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Box Culverts	Cu. Yd.	91.4
Reinforcement Bars, Epoxy Coated	Pound	11,090
Precast Concrete Box Culverts, 10'x5' M273	Foot	136
Name Plates	Each	1
Porous Granular Embankment	Ton	230
Removal of Existing Structures	Each	1
Dewatering	L. Sum	1
Bridge Fence Railing, Special	Foot	104
Stone Riprap, Class A5	Ton	85
Porous Granular Embankment, Special	Ton	125
Filter Fabric	Sq. Yd.	150
Structure Excavation	Cu. Yd.	50
Pipe Underdrains for Structure	Foot	235

WATERWAY INFORMATION

Drainage Area = 2.0 Sq. Mi. Existing Low Grade Elev. 791.9 @ Sta. 123+20 Proposed Low Grade Elev. 791.4 @ Sta. 122+65

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	151	86	81	788.71	788.71	0.06	0.04	788.77	788.75
	30	212	103	96	789.47	789.47	0.09	0.07	789.56	789.54
	50	238	108	96	789.49	789.49	0.12	0.08	789.61	789.57
Base	100	280	111	104	789.88	789.88	0.15	0.13	790.03	790.01
Overtopping	N/A									
Max. Calc.	500	389	121	122	790.77	790.77	0.29	0.31	791.06	791.08

I certify that to the best of my knowledge, information and belief, this culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO Standard Specifications" for highway bridges.

Steven W. Meigs 9/15/2011
 ILLINOIS STRUCTURAL NO. 081-6064



DESIGN STRESSES

PRECAST UNITS

f'c = 5,000 psi (Precast Box)
 fy = 65,000 psi (Welded Wire Fabric)

FIELD UNITS

f'c = 3,500 psi
 fy = 60,000 psi (Reinf.)
 Loading HS-20
 Design Specifications: 2002 AASHTO LFD & all applicable Interims.

FILE NAME =	USER NAME =	DESIGNED - D.W.T.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION STRUCTURE NO. 016-6803	F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3045 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -			2556	08-00094-01-BR	COOK	30	18
PLLOT SCALE =		DRAWN - D.A.B.	REVISED -			VILLAGE OF SCHAUMBURG				
PLLOT DATE = 9/15/2011		CHECKED - S.W.M.	REVISED -							
					SHEET NO. 1 OF 9 SHEETS		ILLINOIS FED. AID PROJECT			