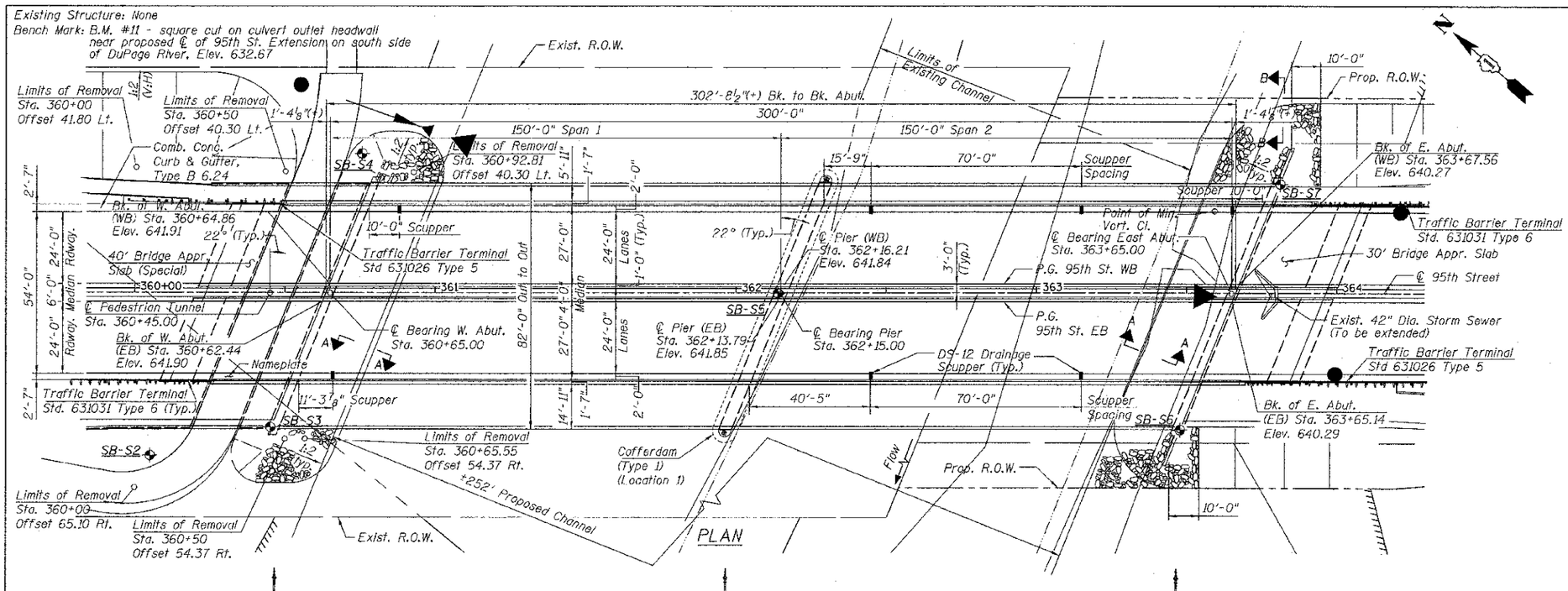
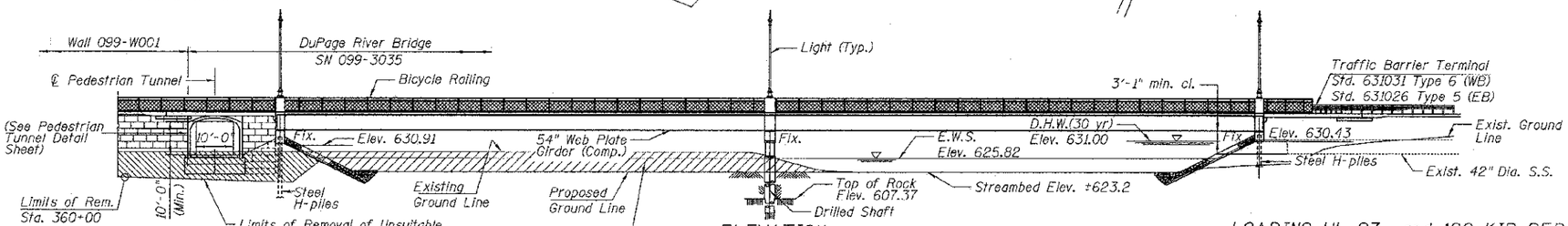
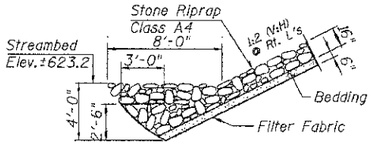
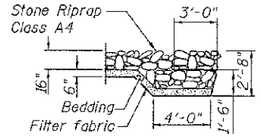




ELEVATION
(Looking Northeast)



SECTION A-A



SECTION B-B

STATION 362+15.00
BUILT 2013 BY
STATE OF ILLINOIS
F.A.U. RT. 1644
SE. 0100181-00-FP
LOADING HL93
STR. NO. 099-3035

NAME PLATE
See Std. 515001

NARENDRA P. PATEL
031-004780
REGISTERED STRUCTURAL ENGINEER
STATE OF ILLINOIS

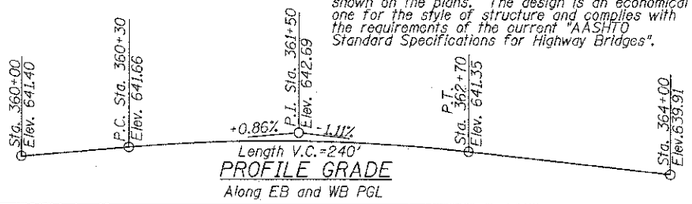
Signature: Narendra Patel For drawing sheets 1 through 38
Current Date: October 19, 2012
License Expires: November 30, 2014

I certify that to the best of my knowledge, information and belief, this bridge 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 the requirements of the current "AASHTO Standard Specifications for Highway Bridges".

WATERWAY INFORMATION

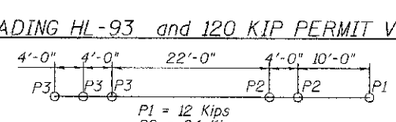
Drainage Area = 207 Sq. Mi. Low Chord Elev. 634.05 ft. @ Sta. 363+79.75

Flood	Freq. Yr.	Q C.F.S.	Opening Exist.	Opening Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	6020	N/A	1514	630.25	0.00	0.05	630.25	630.30
Design	30	7857	N/A	1678	631.94	0.00	0.06	631.94	631.00
Base	100	9918	N/A	1873	631.63	0.00	0.09	631.63	631.72
	500	12750	N/A	2016	632.40	0.00	0.11	632.40	632.51



PROFILE GRADE
Along EB and WB PGL

LOADING HL-93 and 120 KIP PERMIT VEHICLE



P1 = 12 Kips
P2 = 24 Kips
P3 = 20 Kips

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications (5th Edition)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.045g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.11g
Soil Site Class = B

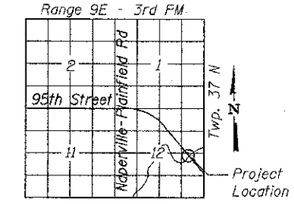
DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
f'_c = 4,500 psi (Precast Elements)
f_y = 60,000 psi (reinforcement)
f_y = 50,000 psi (M270, Grade 50)

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut.	Pier	S. Abut.
	624.88	607.37	630.43



LOCATION SKETCH

INDEX OF SHEETS

1. General Plan and Elevation
2. Estimated quantites and General Notes
3. Substructure Layout
4. Top of Slab Elevations 1
5. Top of Slab Elevations 2
6. Top of Slab Elevations 3
7. Top of Slab Elevations 4
8. Top of Slab Elevations 5
9. Top of Slab Elevations 6
10. Top of Approach Slab Elevations
11. East Approach Slab
12. East Approach Slab Details
13. West Approach Slab
14. West Approach Slab Details
15. Deck Plan and Section
16. Superstructure Details 1
17. Superstructure Details 2
18. Framing Plan
19. Superstructure Steel Details
20. Bearing Details
21. Pier
22. Pier Details
23. East Abutment
24. East Abutment Details
25. West Abutment
26. West Abutment Details
27. MSE Retaining Walls 1, 2 & 3 at W. Abut.-1
28. MSE Retaining Walls 1, 2, & 3 at W. Abut.-2
29. Bridge Deck Drainage Plan and Details
30. Bridge Deck Drainage Sections and Details
31. Precast Tunnel Details
32. Bicycle Railing
33. HP Pile Details
34. Drainager Scupper, DS-12
35. Bar Splicer Assembly and Mechanical Splice Details
36. Soil Borings 1 - Boring Nos. SB--S02, and SB-S03
37. Soil Borings 2 - Boring Nos. SB-S04 and SB-S05
38. Soil Borings 3 - Boring Nos. SB-S06 and SB-S07

GENERAL PLAN & ELEVATION
95TH STREET OVER THE DUPAGE RIVER
F.A.U. RTE. 1644
SEC. 01-00181-00-FP
WILL COUNTY
STATION 362+15.00
STRUCTURE NO. 099-3035

URS
100 S.WACKER DR., SUITE 500
CHICAGO IL 60606
TEL (312)-939-1000
FAX (312)-939-4198

USER NAME = STB
PLOT SCALE = 2x2 3/8 'x' / IN.
PLOT DATE = 10/16/2012

DESIGNED - STB
CHECKED - NPP
DRAWN - SOI
CHECKED - NPP

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 38 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1644	01-00181-00-FP	WILL	328	159
		CONTRACT NO. 63647		
		ILLINOIS FED. AID PROJECT		

FILE NAME = q:\roads\2938738\456\drawings\contract\south\Structures\Bridge (DuPage)\Control Copy\S-01 Gen Plan and Elev.dgn