







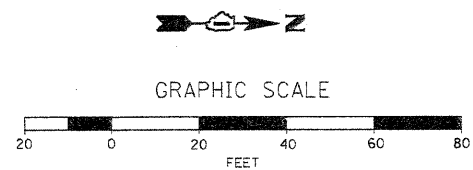
**PROJECT BEGINS
STA 28+00**

**REMOVAL ENDS
STA 32+80**

**PROJECT ENDS
STA 33+38**

LEGEND

-  PAVEMENT REMOVAL
-  AGGREGATE SHOULDER REMOVAL (PAID AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL)
-  STONE RIPRAP REMOVAL (PAID AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL)
-  TREE REMOVAL OF GIVEN SIZE (PAID AS TREE REMOVAL, 6 TO 15 UNITS DIAMETER, OR TREE REMOVAL, OVER 15 UNITS DIAMETER)
-  HOT MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
-  HOT MIX ASPHALT SURFACE REMOVAL 2"



COMPANY NAME: SEC GROUP, INC.
 CLIENT CONTACT: William J. Kovacs
 DATE PLOTTED: 9/8/2011 12:41:25 PM
 FILE NAME: 090212_REM.dgn
 PLOT DRIVER: dt/cpl
 PEN TABLE: Struct 22x34.tbl

SEC Group, Inc.
 An ITR Group Company
 40175 Forest Glen
 Naperville, IL 60563-2132
 1.630.585.1700 FAX 630.585.1711
 www.secgroup.com

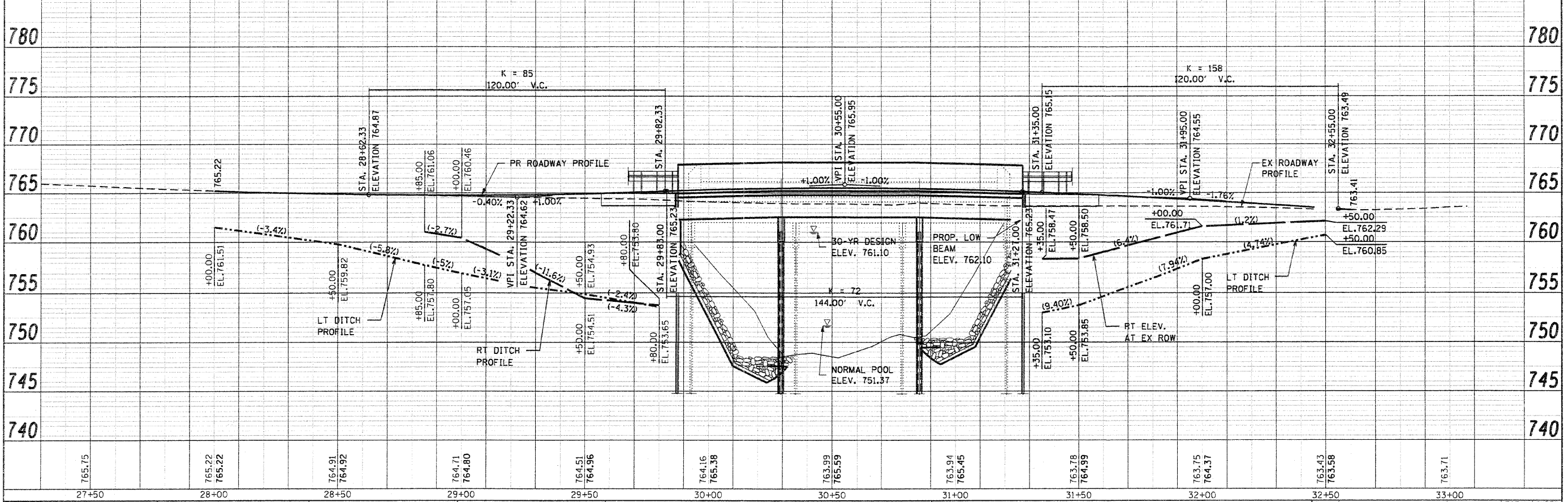
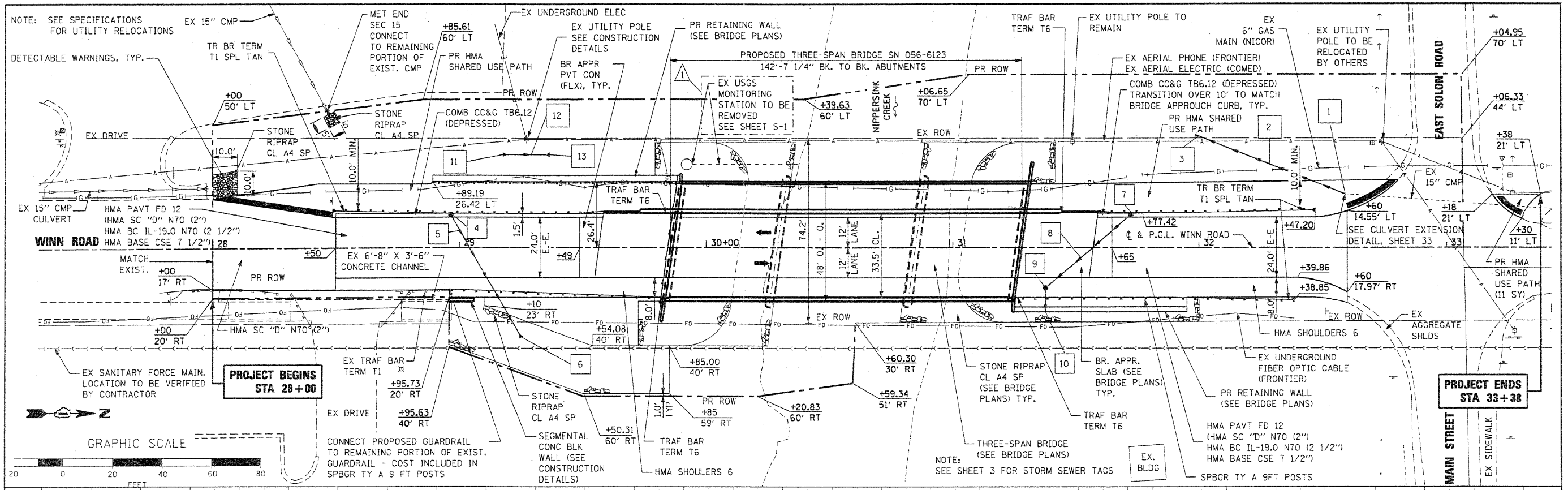
USER NAME = Kmf	DESIGNED - KMA	REVISED - 9/8/2011
FILE NAME = 090212_REM.dgn	DRAWN - WJH	REVISED -
PLOT SCALE = 1"=20'	CHECKED - RGD	REVISED -
PLOT DATE = 9/8/2011	DATE - 7/1/11	REVISED -

VILLAGE OF SPRING GROVE

**REMOVAL PLAN
WINN ROAD**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 0157	SECTION 07-00012-00-BR	COUNTY MCHENRY	TOTAL SHEETS 41	SHEET NO. 7
CONTRACT NO. 63544				
FED. ROAD DIST. NO. (ILLINOIS) FED. AID PROJECT				



COMPANY NAME: SRC GROUP, INC.
 PROJECT CONTACT: Robert E. Davis
 DATE PLOTTED: 9/8/2011 10:50 AM
 FILE NAME: 090212.pnp.dgn
 PLOT DRIVER: pnfplot
 PEN TABLE: \$tender-dr-franz-fri

SRC Group, Inc. <small>4211 First Street Moline, IL 61704-1100 309.243.7777 • 309.243.7771 www.srcgroup.com</small>		USER NAME = korft FILE NAME = 090212.pnp.dgn PLOT SCALE = 1"=20' PLOT DATE = 9/8/2011	DESIGNED - KMA DRAWN - WJH CHECKED - RGD DATE - 7/1/11	REVISED - 09/08/2011 REVISED - REVISED - REVISED -	VILLAGE OF SPRING GROVE PLAN AND PROFILE WINN ROAD	SCALE: 1"=20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.	SECTION 157 COUNTY McHENRY CONTRACT NO. 63544	TOTAL SHEETS 41 SHEET NO. 9
--	--	--	---	---	---	---	---	--------------------------------

Benchmark:
Railroad spike in east face of wood power pole located on the west side of Winn Road and approximately 715 feet north of the centerline of Main Street. Elevation = 788.15 (NAVD88)

Existing Structure:
This existing structure SK 056-6123 was built in 1954 by the Richmond Township Road District as a three-span precast, prestressed concrete deck beam bridge supported on pile bent abutments and piers. The design loading used was H15-S12-44. Structure to be removed and replaced. Road to be closed during construction. Traffic to be maintained with temporary detour route during construction.

Salvage:
No salvage

DESIGN SCOUR ELEVATION TABLE

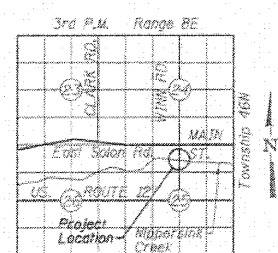
Design Scour Elevation (ft.)	S. Abut.	Pier 1	Pier 2	N. Abut.
	759.08	744.40	746.30	759.11

LEGEND

- Gas (to be relocated by others)
- Fiber Optic (remaining in place)
- Aerial Utilities (remaining in place)
- Sanitary (remaining in place)
- ◆ Soil Boring Location

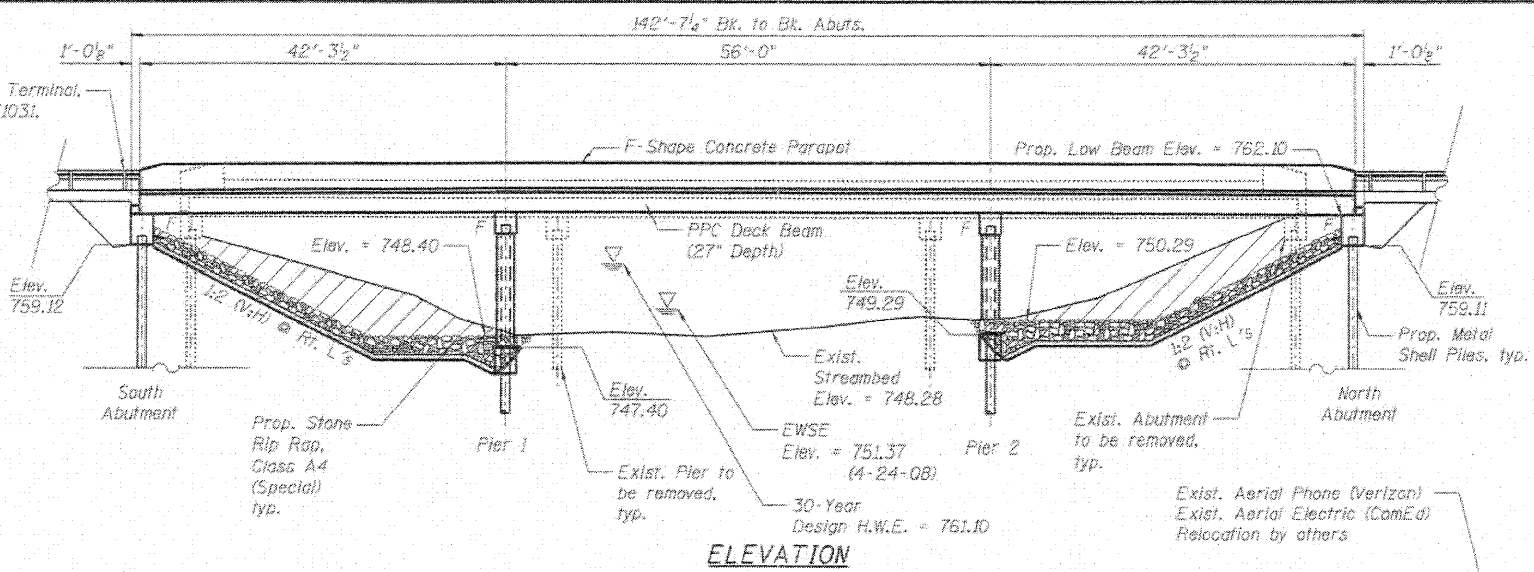
- ▨ Permanent Wetland Impact (Impact to Waters of the U.S.)
- ▨ Removal and Disposal of Unsuitable Material (See Roadway Plans)

Total Permanent Wetland Impact = 0.10 AC

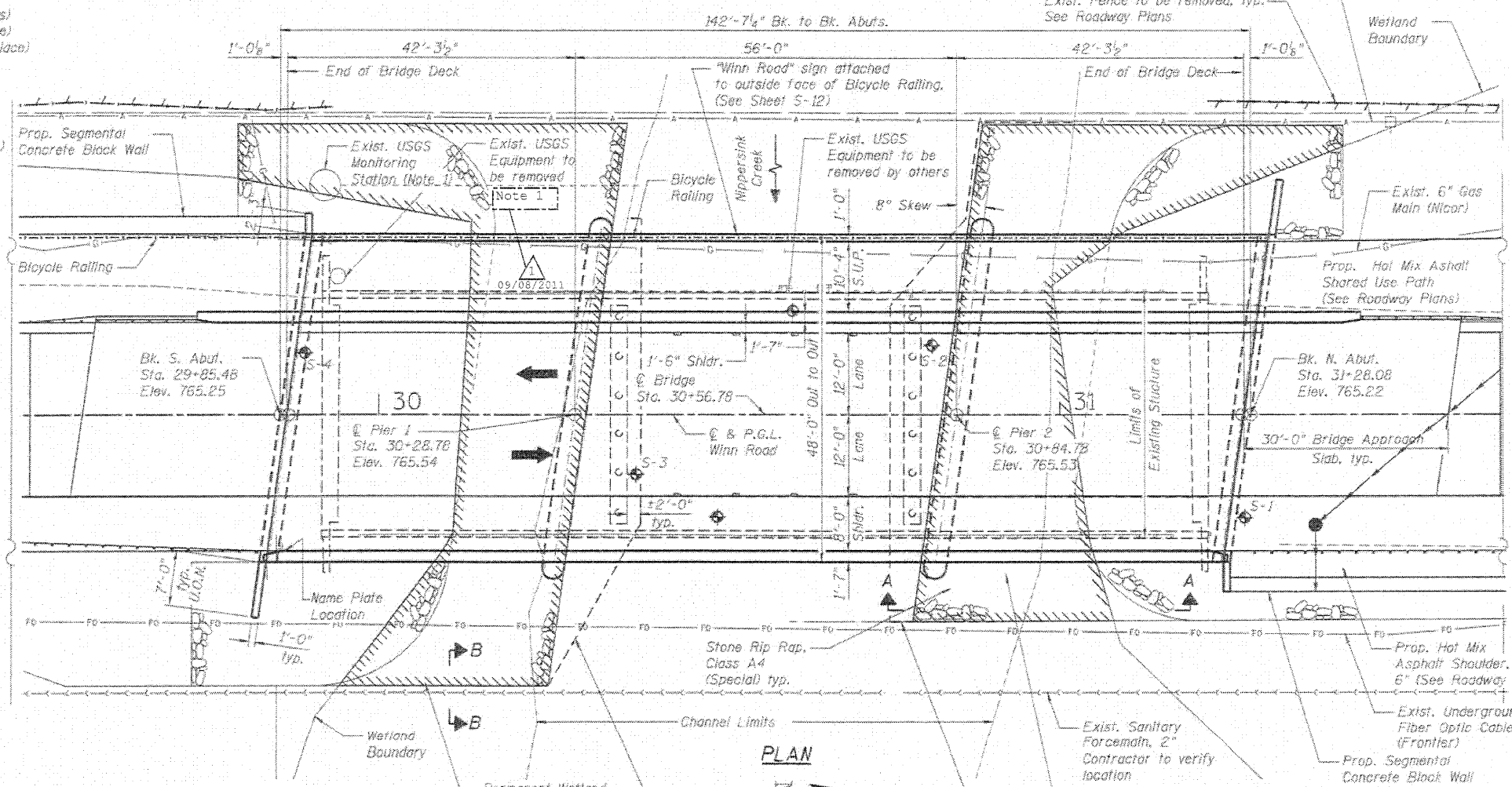


LOCATION SKETCH

Traffic Barrier Terminal, Type 6 Std. 631031, typ.



ELEVATION



PLAN

WATERWAY INFORMATION

Drainage Area = 194 sq. mi. Low Grade Elev. 763.23 @ Sta. 32+60

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	30	5600	1147	1409	761.1	0.1	0.1	762.2	761.2
Base	100	7460	1197	1558	762.6	0.6	0.4	763.2	763.0
Overtopping	>100	8150		1558	762.9		0.5		763.4

Note 1. Existing USGS Station to be removed. Cost included in the cost of "Removal of Existing Structures"

DESIGN SPECIFICATIONS
2007 AASHTO LRFD Bridge Design Specifications with 2008 and 2009 Interims

DESIGN STRESSES
FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS

f'ci = 5,000 psi
f'c = 6,000 psi
fpu = 270,000 psi (1/2" φ low lax strands)
fpbt = 201,960 psi (1/2" φ low lax strands)

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.112
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.200
Soil Site Class = E



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 requirements of the current "AASHTO LRFD Bridge Design Specifications".

Robert S. De... 4/27/2011
Structural Engineer Expires: 11/30/2012
SEC Group Inc.
An HR Green Company

GENERAL PLAN AND ELEVATION
WINN ROAD
OVER NIPPERSINK CREEK
F.A.U. ROUTE 0157
SECTION NO. 07-00012-00-BR
MCHENRY COUNTY
STATION 30+56.78
STRUCTURE NO. 056-6123

DATE: 7/1/11

DESIGNED	JMW
CHECKED	RGD
DRAWN	RCB
CHECKED	RGD



SHEET NO. S-1	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0157	07-00012-00-BR	McHENRY	41	13
S-20 SHEETS					
CONTRACT NO. 63544					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-8003 (921)					