Bench Mark: Survey marker southwest of the intersection of Lake-Cook Road and Milwaukee Avenue. Northing 1,998,621.83, Easting 1,097,353.29, Elevation 664.70.

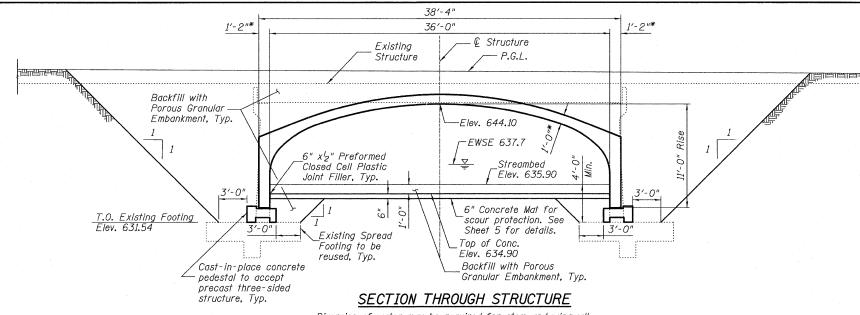
Existing Structure: 016-0525. Built in 1965 as part of County Highway 105-Section 105-1415.1-MFT as a single span prestressed concrete box beam multi-girder bridge. Five of the box beams were removed and replaced in 2006. Substructure is two full height reinforced concrete abutments on spread footings. 39'-6" back to back abutments and 65'-0" out to out. Existing Bridge is to be removed as required to install new three sided structure. Traffic is to be staged during construction utilizing two stages with two lanes of traffic for each stage.

Reuse Existing Footing.

Precast Alternate is not allowed for Footings.

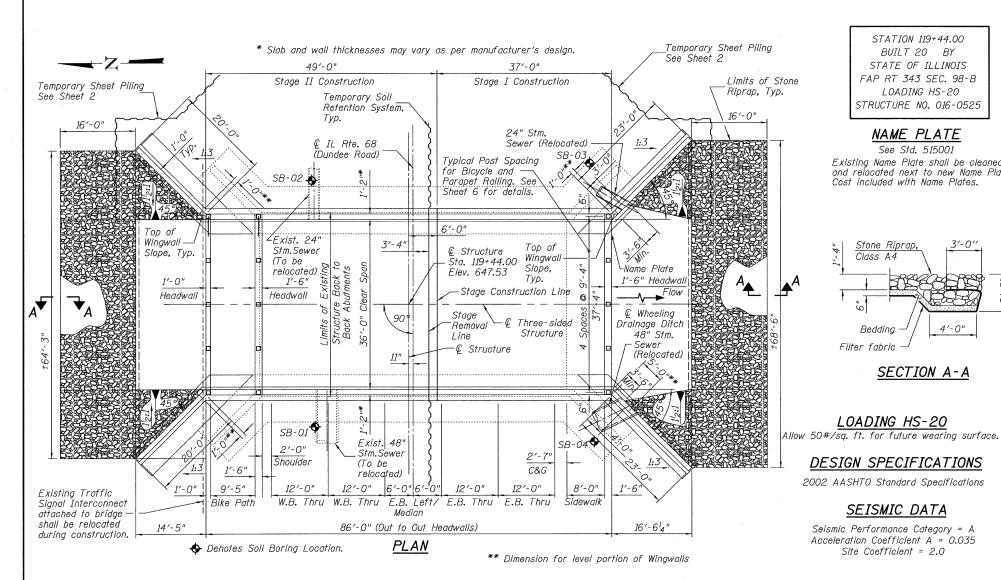
INDEX OF SHEETS

SHEET UMBER	SHEET <u>DESCRIPTION</u>
1	GENERAL PLAN
2	GENERAL DATA
3	STAGE CONSTRUCTION
4	FOUNDATION PLAN
5	SCOUR PROTECTION MAT
6	RAILING DETAILS
7	BAR SPLICER ASSEMBLY
8	TEMPORARY CONCRETE BARRIER
9	BORING LOGS



Diversion of water may be required for stem and wingwall construction at the responsibility of the contractor.

* Slab and wall thicknesses may vary as per manufacturer's design.



STATION 119+44.00 BUILT 20 BY STATE OF ILLINOIS FAP RT 343 SEC. 98-B LOADING HS-20 STRUCTURE NO. 016-0525

NAME PLATE

See Std. 515001

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

SECTION A-A

Stone Riprap,

Class A4

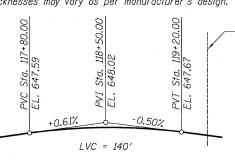
Bedding

LOADING HS-20

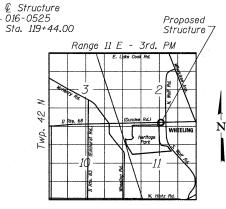
SEISMIC DATA

Site Coefficient = 2.0

Filter fabric



PROFILE GRADE © IL Rte. 68 (Dundee Road)



LOCATION SKETCH

WATERWAY INFORMATION

Existing Low Grade Elev. = 646.4 ft © Sta. 119+00 Drainage Area = 22 sq. mi. Proposed Low Grade Elev. = 646.2 ft © Sta. 123+00									
Flood	Frequency	Q	Opening	Sq. Ft.	Nat.	Head	- Ft.	Headwa	ter El.
Flood	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
	10	585	156	156	641.98	0.05	0.04	642.03	642.02
Design	50	940	178	178	642.57	0.15	0.15	642.72	642.72
Base	100	1203	205	205	643.29	0.22	0.22	643.51	643.51
Overtopping	Exceeds 500 Yr								
Max. Calc.	500	2003	236	236	644.21	1.24	1.23	645.45	645.44

DESIGN SCOUR ELEVATION TABLE

Design Scour	Upstream End	Downstream End
Elevation (ft.)	<i>631.90</i>	631.90

fy = 40,000 psi FIELD UNITS

f'c = 3,500 psi

EXISTING UNITS

DESIGN STRESSES

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

PRECAST UNITS

f'c = 5,000 psify = 60,000 psi (Reinforcement) fy = 65,000 psi (Welded wire fabric) EXPIRES 1//30/12

APPROVED FOR STRUCTURAL ADEQUACY ONLY

ENGINEER OF BRIDGES AND STRUCTURES

Applied Technologies

FILE NAME = GENERAL PLAN.DGN	USER NAME = RDS	DESIGNED -		JRF	REVISED	ar .	
		CHECKED -		PAT2	REVISED	-	
•	PLOT SCALE = 1 = 10'	DRAWN -		RDS	REVISED	-	
	PLOT DATE = 12-15-10	CHECKED -	-	RCJ	REVISED	-	
			_				

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

GENERAL PLAN								
	STRU	CTL	JRE	NO.	010	6-0525		
	SHEET	NΩ	1	OF	g	SHEETS		

F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
343	98-B		соок	65	30
			CONTRAC	T NO. 6	OH20
	ILLINOIS	FED. AII	PROJECT		